# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Research and Development | In Progress | 1945d | 03Oct05 09Dec13 | 12Apr07 31Jan13 | None | | None | | | |
| 1.0 | ANU Planning, Engineering & Design | In Progress | 1652d | 01Dec06 01Jul13 | 30Apr07 23Jan13 | None | | None | | | |
| 1.0.1 | Recycler Upgrades | In Progress | 1652d | 01Dec06 01Jul13 | 30Apr07 23Jan13 | None | | None | | | |
| 1.0.1.1 | Recycler Ring Modifications | In Progress | 1652d | 01Dec06 01Jul13 | 02Jul07 23Jan13 | None | | None | | | |
| 1.0.1.1.1 | Decommission Pbars Devices in Recycler | Complete | 321d | 02Nov11 15Feb13 | 02Nov11 02Jan13 | None | | None | | | |
| 1.0.1.1.1.1 | Removal of Stochastic cooling tanks | Complete | 139d | 02Nov11 23May12 | 02Nov11 04Dec12 | None | | None | | | |
| 1.0.1.1.1.1.1 | Recycler - Remove Electronics Equipment (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.1.1.1.1.2[FS] |
| 1.0.1.1.1.1.2 | Recycler - Remove Tanks Q103-Q104 & Q211-Q212 (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.1.1.1[FS] | 1.0.1.1.1.1.3[FS] |
| 1.0.1.1.1.1.3 | Recycler - Reconstitute Vacuum System (OBSOLETE) | Complete | 1d | 04Nov11 04Nov11 | 04Nov11 04Nov11 | None | | None | | 1.0.1.1.1.1.2[FS] | |
| 1.0.1.1.1.1.4 | Remove 102 - 104 SC | Complete | 1d | 14May12 16May12 | 14May12 14May12 | None | | None | | 2.10.10.5[SS+10d] | 2.0.1.1.1.14.31.1[FS] |
| 1.0.1.1.1.1.5 | Remove 211- 213 SC | Complete | 5d | 14May12 23May12 | 28Nov12 04Dec12 | None | | None | | 2.0.1.1.1.14.30.8[FS] | 2.0.1.1.1.14.31.3[FS] |
| 1.0.1.1.1.2 | Remove Ecool Magnets & Devices (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.2.2.2.1[FS] | 2.0.1.1.1.14.15[FS]; 1.0.1.1.2.2.3.7[FS] |
| 1.0.1.1.1.3 | R22 Line Removal | Complete | 186d | 02Nov11 31Jul12 | 02Nov11 02Jan13 | None | | None | | | |
| 1.0.1.1.1.3.1 | Recycler - Remove Lambertsons at Q214/MI221 (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.1.1.1.3.2[FS] |
| 1.0.1.1.1.3.2 | Recycler - Reconstitute Vacuum System Q214 & MI221 (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.1.3.1[FS] | 2.0.1.1.1.14.4[FS]; 2.0.1.1.1.14.9[FS] |
| 1.0.1.1.1.3.3 | R22 Remove Instrumentation/Trim Magnets (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.2.1.7.1[FS] | 2.0.1.1.1.14.4[FS] |
| 1.0.1.1.1.3.4 | Remove R22 Line | Complete | 15d | 01Mar12 15Jun12 | 30May12 19Jun12 | None | | None | | 2.0.1.1.1.14.30.8[FS] | 2.0.1.1.1.14.31.3[FS] |
| 1.0.1.1.1.3.5 | Align R22 | Complete | 5d | 31Jul12 31Jul12 | 21Dec12 02Jan13 | None | | None | | 2.0.1.1.1.14.31.3[FS] | 2.0.4.3.16[FS] |
| 1.0.1.1.1.4 | R32 Line Removal | Complete | 186d | 02Nov11 31Jul12 | 02Nov11 26Jun12 | None | | None | | | |
| 1.0.1.1.1.4.1 | Recycler - Remove Lambertsons at Q328/MI321 (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.1.1.1.4.2[FS] |
| 1.0.1.1.1.4.2 | Recycler - Reconstitute Vacuum System Q328 & MI Q321 (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.1.4.1[FS] | 2.0.1.1.1.14.4[FS]; 2.0.1.1.1.14.9[FS] |
| 1.0.1.1.1.4.3 | R32 Remove Instrumentation/Trim & Mirror Magnets (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.2.1.7.1[FS] | |
| 1.0.1.1.1.4.4 | Remove R32 Line | Complete | 10d | 24May12 25Jul12 | 22May12 05Jun12 | None | | None | | 2.0.1.1.1.14.31.1[FS] | 2.0.1.1.1.14.31.4[FS] |
| 1.0.1.1.1.4.5 | Align R32 | Complete | 5d | 31Jul12 31Jul12 | 20Jun12 26Jun12 | None | | None | | 2.0.1.1.1.14.31.4[FS] | 2.0.4.3.16[FS] |
| 1.0.1.1.1.5 | Remove RR Broadband cavities | Complete | 5d | 12Feb13 15Feb13 | 02Nov12 08Nov12 | None | | None | | 2.0.2.2.3.8[FS] | 2.0.1.1.1.14.35.1[FS] |
| 1.0.1.1.1.6 | Ecool | Complete | 37d | 01Jun12 24Jul12 | 13Jun12 13Sep12 | None | | None | | | |
| 1.0.1.1.1.6.2 | Remove Ecool stage 1 | Complete | 25d | 01Jun12 28Jun12 | 13Jun12 18Jul12 | None | | None | | 2.10.10.5[FS+30d] | 2.0.1.1.1.14.29.1[FS] |
| 1.0.1.1.1.6.3 | Remove Ecool stage 2 | Complete | 10d | 22Jun12 11Jul12 | 26Jul12 08Aug12 | None | | None | | 2.0.1.1.1.14.29.1[FS] | 1.0.1.1.1.6.4[FS-5d] |
| 1.0.1.1.1.6.4 | Remove RR 30 Straight Stage 1 | Complete | 15d | 29Jun12 18Jul12 | 02Aug12 22Aug12 | None | | None | | 1.0.1.1.1.6.3[FS-5d] | 1.0.1.1.1.6.5[FS] |
| 1.0.1.1.1.6.5 | Remove RR 30 Straight Stage 2 | Complete | 15d | 29Jun12 24Jul12 | 23Aug12 13Sep12 | None | | None | | 1.0.1.1.1.6.4[FS] | 2.0.1.1.1.14.33.1.2[FS-5d] |
| 1.0.1.1.2 | Beam Lines (Transfer, Abort & RR 30 Straight) | In Progress | 1652d | 01Dec06 01Jul13 | 02Jul07 23Jan13 | None | | None | | | |
| 1.0.1.1.2.1 | Beam Lines (Transfer, Abort & RR 30 Straight) - R&D | Complete | 1248d | 01Dec06 17Nov11 | 02Jul07 10Apr12 | None | | None | | | |
| 1.0.1.1.2.1.1 | Initial Design/Parameter Assessment | Complete | 905d | 01Dec06 12Jul10 | 01Oct07 08Jul09 | None | | None | | | |
| 1.0.1.1.2.1.1.4 | Preliminary Installation Planning | Complete | 697d | 01Oct07 12Jul10 | 01Oct07 08Jul09 | None | | None | | | |
| 1.0.1.1.2.1.1.4.1 | Preliminary IL Installation Planning-1 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.0.1.1.2.1.1.1.1[FS+127d] | 1.0.1.1.2.1.1.4.4[FS] |
| 1.0.1.1.2.1.1.4.2 | Preliminary EL Installation Planning-1 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.0.1.1.2.1.1.1.2[FS+127d] | 1.0.1.1.2.1.1.4.5[FS] |
| 1.0.1.1.2.1.1.4.3 | Preliminary RR-30 SS Installation Planning | Complete | 103d | 12Jan09 15Oct09 | 02Feb09 08Jul09 | None | | None | | 1.0.1.1.2.1.1.1.3[FS+127d]; 2.10.9.7[FS] | 1.0.1.1.6.5[FS] |
| 1.0.1.1.2.1.1.4.4 | Preliminary IL Installation Planning-2 | Complete | 78d | 12Jan09 12Jul10 | 02Feb09 17Apr09 | None | | None | | 2.10.9.7[FS]; 1.0.1.1.2.1.1.4.1[FS] | 2.0.1.1.1.14.2[FS]; 1.0.1.1.6.5[FS] |
| 1.0.1.1.2.1.1.4.5 | Preliminary EL Installation Planning-2 | Complete | 78d | 12Jan09 22Jun10 | 02Feb09 17Apr09 | None | | None | | 2.10.9.7[FS]; 1.0.1.1.2.1.1.4.2[FS] | 1.0.1.1.6.5[FS] |
| 1.0.1.1.2.1.2 | RR Magnet Instrumentation Stands | Complete | 393d | 01Jun09 21Dec10 | 23Nov09 29Mar10 | None | | None | | | |
| 1.0.1.1.2.1.2.1 | Design IL Magnet Stands | Complete | 101d | 01Jun09 21Dec10 | 04Jan10 29Mar10 | None | | None | | 2.10.9.7[FS]; 2.0.4.3.22[FS]; 1.0.1.1.2.1.8.2[FF+20d] | 2.0.1.1.1.2.1[FS] |
| 1.0.1.1.2.1.2.2 | Design EL Magnet Stands | Complete | 40d | 15Dec09 07Dec10 | 23Nov09 26Jan10 | None | | None | | 2.10.9.7[FS+10d]; 2.0.4.3.22[FS] | 2.0.1.1.1.2.2[FS] |

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and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.1.2.1.3 | Vertical Dipole Magnets | Complete | 898d | 01Dec06 30Jun10 | 12Dec07 07Jul09 | None | | None | | | |
| 1.0.1.1.2.1.3.1 | Design Vertical Dipole Magnet Power Supplies | Complete | 110d | 03May10 30Jun10 | 02Feb09 07Jul09 | None | | None | | 1.0.1.1.2.1.1.1.2[FS]; 1.0.1.1.2.1.1.1.1[FS]; 1.0.1.1.2.1.3.10[FS]; 2.10.9.7[FS] | 2.0.1.1.1.3.5.1[FS] |
| 1.0.1.1.2.1.3.4 | Engineering Design of Bending Magnets | Complete | 90d | 12Dec07 28Dec07 | 12Dec07 22Apr08 | None | | None | | 1.0.1.1.2.1.3.2[FS+150d] | 2.0.1.1.1.3.1[FS] |
| 1.0.1.1.2.1.3.5 | Disassemble one (1) ADC and evaluate coil stability | Complete | 15d | 01Oct08 21Oct08 | 01Oct08 21Oct08 | None | | None | | | 1.0.1.1.2.1.3.6[FS-5d] |
| 1.0.1.1.2.1.3.6 | Design spacer/coil stabilizer for prototype | Complete | 40d | 03Nov08 23Feb09 | 15Oct08 11Dec08 | None | | None | | 1.0.1.1.2.1.3.5[FS-5d] | 1.0.1.1.2.1.3.7[FS-10d] |
| 1.0.1.1.2.1.3.7 | Prep Req & Award PO for prototype ADC_W parts | Complete | 50d | 24Feb09 23Mar09 | 26Nov08 12Feb09 | None | | None | | 1.0.1.1.2.1.3.6[FS-10d] | 1.0.1.1.2.1.3.8[FS+20d] |
| 1.0.1.1.2.1.3.8 | Receive prototype ADC_W parts | Complete | 55d | 10Aug09 24Aug09 | 12Dec08 26Feb09 | None | | None | | 1.0.1.1.2.1.3.7[FS+20d] | 1.0.1.1.2.1.3.9[FS] |
| 1.0.1.1.2.1.3.9 | Refurbish one (1) ADC as prototype ADCW | Complete | 25d | 28Sep09 21Dec09 | 27Feb09 02Apr09 | None | | None | | 1.0.1.1.2.1.3.8[FS] | 1.0.1.1.2.1.3.10[FS] |
| 1.0.1.1.2.1.3.10 | Measure ADC prototype | Complete | 25d | 21Dec09 30Apr10 | 03Apr09 07May09 | None | | None | | 1.0.1.1.2.1.3.9[FS] | 2.0.1.1.1.3.2[FS]; 1.0.1.1.2.1.3.1[FS]; 1.0.1.1.5.3[FS] |
| 1.0.1.1.2.1.4 | RR Permanent Quadrupoles | Complete | 586d | 29Oct07 03Mar10 | 29Oct07 07Nov08 | None | | None | | | |
| 1.0.1.1.2.1.4.2 | RR Evaluate Ferrite Capabilities-1 | Complete | 42d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.1.1.2.1.5.2[FS]; 1.0.1.1.2.1.4.5[FS] |
| 1.0.1.1.2.1.4.5 | Trim spare RQx Magnet | Complete | 5d | 17Dec08 03Mar10 | 03Nov08 07Nov08 | None | | None | | 2.10.10.4[FS]; 1.0.1.1.2.1.4.2[FS] | 2.0.1.1.1.4.5[FS]; 2.0.1.1.1.4.8[FS]; 2.0.1.1.1.4.1[FS]; 1.0.1.1.2.1.5.3[FS] |
| 1.0.1.1.2.1.5 | IL PDD Magnets | Complete | 463d | 01Oct08 05Aug10 | 09Dec08 22Jan10 | None | | None | | | |
| 1.0.1.1.2.1.5.1 | Check PDD Design & Tooling | Complete | 25d | 01Oct08 30Oct09 | 13Apr09 15May09 | None | | None | | 2.10.10.4[FS]; 2.10.9.4[FS]; 1.0.1.1.2.1.8.2[FS] | 2.0.1.1.1.5.1[FS]; 1.0.1.1.2.1.5.4[FS]; 1.0.1.1.2.1.5.2[FS] |
| 1.0.1.1.2.1.5.2 | RR Evaluate Ferrite Capabilities-2 | Complete | 45d | 24Aug09 30Nov09 | 09Dec08 16Feb09 | None | | None | | 1.0.1.1.2.1.4.2[FS]; 2.10.9.7[FS]; 1.0.1.1.2.1.5.1[FS] | 1.0.1.1.2.1.5.3[FS]; 1.0.1.1.2.2.6.3[SS+23d] |
| 1.0.1.1.2.1.5.3 | Re Assemble PDD Test Magnet (OBSOLETE) | Complete | 1d | 30Sep09 30Sep09 | 17Feb09 11May09 | None | | None | | 1.0.1.1.2.1.5.2[FS]; 1.0.1.1.2.1.4.5[FS] | |
| 1.0.1.1.2.1.5.4 | Prepare purchas req and award PO for PDD parts | Complete | 15d | 14Sep09 30Sep09 | 01Oct09 21Oct09 | None | | None | | 1.0.1.1.2.1.5.1[FS] | 1.0.1.1.2.1.5.5[FS] |
| 1.0.1.1.2.1.5.5 | Receive IL PDD parts | Complete | 25d | 26Oct09 29Jan10 | 22Oct09 25Nov09 | None | | None | | 1.0.1.1.2.1.5.4[FS] | 1.0.1.1.2.1.5.6[FS] |
| 1.0.1.1.2.1.5.6 | Assemble PDD test magnet | Complete | 62d | 08Feb10 05Aug10 | 30Nov09 22Jan10 | None | | None | | 1.0.1.1.2.1.5.5[FS] | 2.0.1.1.1.5.1[FS] |
| 1.0.1.1.2.1.6 | IL PDDW Magnets | Complete | 8d | 19May10 28May10 | 03May10 07Jun10 | None | | None | | | |
| 1.0.1.1.2.1.6.1 | IL PDDW Magnets Check Engineering Design | Complete | 25d | 19May10 28May10 | 03May10 07Jun10 | None | | None | | 2.0.1.1.1.5.1[FS]; 2.0.4.3.22[FS]; 2.10.9.7[FS] | 2.0.1.1.1.6.1[FS] |
| 1.0.1.1.2.1.7 | Trim Magnets | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | | |
| 1.0.1.1.2.1.7.1 | Corrector Reassignment (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.1.1.1.4.3[FS]; 1.0.1.1.1.3.3[FS] |
| 1.0.1.1.2.1.8 | PDS Magnets | Complete | 539d | 02Jul07 21Aug09 | 02Jul07 16Sep09 | None | | None | | | |
| 1.0.1.1.2.1.8.1 | Design PDS Magnets-1 | Complete | 124d | 02Jul07 28Dec07 | 02Jul07 28Dec07 | None | | None | | 1.0.1.1.2.1.1.1.1[FS+64d] | 1.0.1.1.2.1.8.2[FS] |
| 1.0.1.1.2.1.8.2 | Design PDS Magnets-2 | Complete | 50d | 15Aug08 03Sep08 | 02Feb09 10Apr09 | None | | None | | 1.0.1.1.2.1.8.1[FS]; 2.10.9.7[FS] | 1.0.1.1.2.1.8.3[FF]; 2.0.1.1.1.8.1[FF+10d]; 1.0.1.1.2.1.5.1[FS]; 1.0.1.1.6.6[FS]; 1.0.1.1.2.1.2.1[FF+20d] |
| 1.0.1.1.2.1.8.3 | Prep Req & Award PO for SmCo5 bricks for PDS prototype magnet | Complete | 10d | 04Sep08 30Sep08 | 30Mar09 10Apr09 | None | | None | | 1.0.1.1.2.1.8.2[FF] | 1.0.1.1.2.1.8.4[FS] |
| 1.0.1.1.2.1.8.4 | Receive SmCo5 bricks for PDS prototype magnet | Complete | 40d | 03Nov08 22Jan09 | 13Apr09 08Jun09 | None | | None | | 1.0.1.1.2.1.8.3[FS] | 1.0.1.1.2.1.8.5[FF] |
| 1.0.1.1.2.1.8.5 | Prep purch req and award PO for PDS prototype magnet | Complete | 10d | 01Oct08 01Dec08 | 26May09 08Jun09 | None | | None | | 1.0.1.1.2.1.8.4[FF] | 1.0.1.1.2.1.8.6[FS] |
| 1.0.1.1.2.1.8.6 | Receive PDS prototype magnet from industry | Complete | 5d | 20Apr09 22Apr09 | 09Jun09 04Aug09 | None | | None | | 1.0.1.1.2.1.8.5[FS] | 1.0.1.1.2.1.8.7[FS] |
| 1.0.1.1.2.1.8.7 | Test prototype PDS magnet | Complete | 30d | 08May09 21Aug09 | 05Aug09 16Sep09 | None | | None | | 1.0.1.1.2.1.8.6[FS] | 1.0.1.1.5.6[FS] |
| 1.0.1.1.2.1.9 | MGS Mirror Magnets | Complete | 1d | 17Nov11 17Nov11 | 10Apr12 10Apr12 | None | | None | | | 2.0.1.1.1.14.4[FF] |
| 1.0.1.1.2.1.9.1 | MGS Mirror Magnets Engineering Design Review (OBSOLETE) | Complete | 1d | 17Nov11 17Nov11 | 10Apr12 10Apr12 | None | | None | | 2.0.1.1.1.12.1[FS] | 2.0.1.1.1.14.9[FF] |
| 1.0.1.1.2.1.10 | Lambertson, 8GEV | Complete | 583d | 29Oct07 26Feb10 | 29Oct07 06Apr09 | None | | None | | | |
| 1.0.1.1.2.1.10.1 | Engineering Design Wide Gap MLA-1 | Complete | 42d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.1.1.2.1.10.2[FS] |
| 1.0.1.1.2.1.10.2 | Engineering Design Wide Gap MLA-2 | Complete | 46d | 01Aug08 26Feb10 | 02Feb09 06Apr09 | None | | None | | 2.10.9.7[FS]; 1.0.1.1.2.1.10.1[FS]; 2.10.10.4[FF+17d] | |
| 1.0.1.1.2.2 | Beam Lines (Transfer, Abort & RR 30 Straight) - OP | In Progress | 1652d | 01Dec06 01Jul13 | 06Aug07 23Jan13 | None | | None | | | |
| 1.0.1.1.2.2.2 | Permanent Quadrupoles - OP | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | | |
| 1.0.1.1.2.2.2.1 | Recycler - Remove all 38 Quads from Q301-Q308 & Ship to TD for Storage (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 2.0.1.1.1.4.6[SS]; 1.0.1.1.1.2[FS]; 1.0.1.1.2.2.3.7[FS] |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.1.2.2.3 | Stakeout Beamlines | Complete | 1071d | 06Aug07 07Nov11 | 06Aug07 07Nov11 | None | | None | | | |
| 1.0.1.1.2.2.3.1 | IL Stakeout Beamline | Complete | 11d | 06Aug07 20Aug07 | 06Aug07 20Aug07 | None | | None | | 2.10.10.1[FS]; 1.0.1.1.6.2[FS] | 1.0.1.1.2.2.3.2[FS+4d]; 1.0.1.1.5.3[FS] |
| 1.0.1.1.2.2.3.2 | EL Stakeout Beamline | Complete | 9d | 27Aug07 07Sep07 | 27Aug07 07Sep07 | None | | None | | 1.0.1.1.2.2.3.1[FS+4d] | 1.0.1.1.2.2.3.3[FS]; 1.0.1.1.5.3[FS] |
| 1.0.1.1.2.2.3.3 | RR30 Stakeout Beamline | Complete | 9d | 10Sep07 20Sep07 | 10Sep07 20Sep07 | None | | None | | 1.0.1.1.2.2.3.2[FS] | 2.10.10.2[FS]; 1.0.1.1.5.3[FS] |
| 1.0.1.1.2.2.3.5 | IL Installation Stakeout (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.1.1.2.2.3.6[FS]; 2.0.1.1.1.14.4[FS] |
| 1.0.1.1.2.2.3.6 | EL Installation Stakeout (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.1.1.2.2.3.5[FS] | 1.0.1.1.2.2.3.7[FS]; 2.0.1.1.1.14.9[FS] |
| 1.0.1.1.2.2.3.7 | RR-30 SS Installation Stakeout (OBSOLETE) | Complete | 1d | 04Nov11 04Nov11 | 04Nov11 04Nov11 | None | | None | | 1.0.1.1.2.2.3.6[FS]; 1.0.1.1.1.2[FS]; 1.0.1.1.2.2.2.1[FS] | 2.0.1.1.1.14.15[FS]; 1.0.1.1.2.2.3.8[FS] |
| 1.0.1.1.2.2.3.8 | BA Mods Installation Stakeout (OBSOLETE) | Complete | 1d | 07Nov11 07Nov11 | 07Nov11 07Nov11 | None | | None | | 1.0.1.1.2.2.3.7[FS] | 2.0.1.1.1.14.17[FS] |
| 1.0.1.1.2.2.5 | Alignment | In Progress | 401d | 23Nov11 01Jul13 | 23Nov11 23Jan13 | None | | None | | | |
| 1.0.1.1.2.2.5.1 | Final IL Alignment (OBSOLETE) | Complete | 1d | 23Nov11 23Nov11 | 23Nov11 23Nov11 | None | | None | | 2.0.1.1.1.14.20[FS] | |
| 1.0.1.1.2.2.5.2 | Final EL Alignment (OBSOLETE) | Complete | 1d | 23Nov11 23Nov11 | 23Nov11 23Nov11 | None | | None | | 2.0.1.1.1.14.21[FS]; 2.0.1.2.3.5[FF+10d] | |
| 1.0.1.1.2.2.5.3 | RR30 Final Alignment (OBSOLETE) | Complete | 1d | 23Nov11 23Nov11 | 23Nov11 23Nov11 | None | | None | | 2.0.1.1.1.14.22[FS]; 2.0.1.2.3.5[FF+10d] | |
| 1.0.1.1.2.2.5.4 | BA Mods Final Alignment (OBSOLETE) | Complete | 1d | 30Nov11 30Nov11 | 08Dec11 08Dec11 | None | | None | | 2.0.1.1.1.14.24[FS]; 2.0.1.2.2.5[FF+10d]; 2.0.1.2.5.2.12[FF+10d] | |
| 1.0.1.1.2.2.5.5 | Rough align R845 - R104 | Complete | 1d | 08Aug12 09Aug12 | 24Sep12 24Sep12 | None | | None | | 2.0.1.1.1.14.30.3[FS] | 2.0.1.1.1.14.30.4[FS] |
| 1.0.1.1.2.2.5.6 | Final align R845 - R104 | Complete | 5d | 18Mar13 18Jun13 | 29Oct12 02Nov12 | None | | None | | 2.0.1.1.1.14.37.7[FS] | 2.0.1.1.1.14.30.6[FS]; 2.0.4.3.16[FS]; 2.0.1.1.1.14.29.2[FS] |
| 1.0.1.1.2.2.5.7 | Final align R130 | Complete | 3d | 15Aug12 15Aug12 | 22May12 24May12 | None | | None | | 2.0.1.1.1.14.31.1[FS] | 2.0.4.3.16[FS] |
| 1.0.1.1.2.2.5.8 | Align R341 - R400 | Complete | 5d | 05Nov12 18Jun13 | 02Aug12 08Aug12 | None | | None | | 2.0.1.1.1.14.32.6[FS] | 2.0.1.1.1.14.32.7[FS]; 2.0.1.1.1.14.29.2[FS]; 2.0.4.3.16[FS] |
| 1.0.1.1.2.2.5.9 | Align RR606 - 607 | Complete | 5d | 08Apr13 18Jun13 | 10Jan13 16Jan13 | None | | None | | 2.0.1.1.1.14.35.7[FS] | 2.0.1.1.1.14.37.6[FS]; 2.0.4.3.16[FS] |
| 1.0.1.1.2.2.5.10 | Rough align R232 - 310 | Complete | 5d | 18Feb13 22Mar13 | 28Sep12 04Oct12 | None | | None | | 2.0.1.1.1.14.33.1.3[FS] | 1.0.1.1.2.2.5.11[FS] |
| 1.0.1.1.2.2.5.11 | Final align R232 - 310 | In Progress | 5d | 11Mar13 01Jul13 | 16Jan13 23Jan13 | None | | None | | 1.0.1.1.2.2.5.10[FS]; 2.0.1.1.1.14.33.2.5[FS] | 2.0.4.3.16[FS]; 2.0.1.1.1.14.29.2[FS]; 2.0.1.1.1.14.33.1.5[FS]; 2.0.1.1.1.14.33.2.6[FS] |
| 1.0.1.1.2.2.6 | Common Tooling for Permanent Magnet Assembly | Complete | 461d | 29Oct07 28Aug09 | 29Oct07 04Mar09 | None | | None | | | |
| 1.0.1.1.2.2.6.1 | Ensure Availability of Tooling | Complete | 10d | 29Oct07 09Nov07 | 29Oct07 09Nov07 | None | | None | | 2.10.9.4[FS] | 1.0.1.1.2.2.6.2[FS] |
| 1.0.1.1.2.2.6.2 | Verify Design Compatibility-1 | Complete | 31d | 12Nov07 28Dec07 | 12Nov07 28Dec07 | None | | None | | 1.0.1.1.2.2.6.1[FS] | 1.0.1.1.2.2.6.3[FS] |
| 1.0.1.1.2.2.6.3 | Verify Design Compatibility-2 | Complete | 23d | 10Dec08 28Aug09 | 02Feb09 04Mar09 | None | | None | | 2.10.10.4[FS]; 1.0.1.1.2.2.6.2[FS]; 2.10.9.7[FS]; 1.0.1.1.2.1.5.2[SS+23d] | 2.0.1.1.1.1.1[FS] |
| 1.0.1.1.3 | 53 Mhz RF System | Complete | 1631d | 01Dec06 31May13 | 02Feb09 15Nov12 | None | | None | | | |
| 1.0.1.1.3.1 | 53 Mhz RF System | Complete | 790d | 01Dec06 28Jan10 | 02Feb09 11Jun09 | None | | None | | | |
| 1.0.1.1.3.1.2 | Intermediate Design 53 Mhz RF System | Complete | 93d | 02Jan09 28Jan10 | 02Feb09 11Jun09 | None | | None | | 1.9.4.3[FS]; 1.0.1.1.3.1.1[FS]; 2.10.9.7[FS] | 1.0.1.1.5.1[FS] |
| 1.0.1.1.3.2 | 53 Mhz RF System - OP | Complete | 1099d | 20Jan09 31May13 | 02Feb09 15Nov12 | None | | None | | | |
| 1.0.1.1.3.2.1 | Procure S&C Disconnect | Complete | 65d | 20Jan09 08Mar10 | 02Feb09 01May09 | None | | None | | 2.10.9.7[FS] | 1.0.1.1.3.2.2[FS] |
| 1.0.1.1.3.2.2 | Assembly of MI60 Anode Supply Room | Complete | 30d | 10Oct11 05Apr13 | 03Oct11 11Nov11 | None | | None | | 2.10.10.11[FS]; 2.0.4.4.1.6[FS]; 1.0.1.1.3.2.1[FS] | 2.0.2.2.2.1.3.3[FS]; 2.0.2.2.2.1.4.3[FS] |
| 1.0.1.1.3.2.3 | Test 53 Mhz RF System | Complete | 103d | 13Sep12 31May13 | 22Jun12 15Nov12 | None | | None | | 2.0.1.1.2.1[FS]; 2.0.1.1.2.3[FS+60d]; 2.0.1.1.2.8[SS+60d]; 2.0.1.1.2.6[FS+60d] | 2.0.1.1.1.14.35.2[SS+70d] |
| 1.0.1.1.4 | Recycler Cooling System | Complete | 995d | 16Oct07 30Sep11 | 16Oct07 22Jun11 | None | | None | | | |
| 1.0.1.1.4.1 | Analyze RR Cooling System Capacities-1 | Complete | 47d | 16Oct07 28Dec07 | 16Oct07 28Dec07 | None | | None | | 2.10.10.2[FS] | 1.0.1.1.4.7[FS] |
| 1.0.1.1.4.2 | Design Injection Line Water System Mods | Complete | 191d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | | |
| 1.0.1.1.4.2.1 | Design Connections for Magnet Change/Move | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.1.1[FS] |
| 1.0.1.1.4.2.2 | Design Pipe/Bus Move | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.1.1[FS] |
| 1.0.1.1.4.2.3 | Design Water Line Installation to MI-14 | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.1.1[FS] |
| 1.0.1.1.4.2.4 | Design Connections for Flourinert & Power Supplies for MI-14 | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.1.1[FS] |
| 1.0.1.1.4.3 | Design Extraction Line Water System Mods | Complete | 191d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | | |
| 1.0.1.1.4.3.1 | Design Connections for Magnet Change/Move | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.2.1[FS] |
| 1.0.1.1.4.3.2 | Design Water Line Installation to MI-30 | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.2.1[FS] |
| 1.0.1.1.4.3.3 | Design Connections for Flourinert & Power Supplies for MI-30 | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.2.1[FS] |
| 1.0.1.1.4.4 | Design Abort Line Water System Mods | Complete | 85d | 03Jan11 02May11 | 04Feb11 22Jun11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.1.4.4.1 | Design Connections for Magnet Change/Move | Complete | 98d | 03Jan11 02May11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.3.1[FS] |
| 1.0.1.1.4.4.2 | Design Water Line Installation to MI-39 | Complete | 98d | 03Jan11 23Feb11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.3.1[FS] |
| 1.0.1.1.4.4.3 | Design Connections for Flourinert & Power Supplies for MI-39 | Complete | 98d | 03Jan11 23Feb11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.3.1[FS] |
| 1.0.1.1.4.5 | Design RF Cavity Water System Mods | Complete | 191d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | | |
| 1.0.1.1.4.5.1 | Design Connections for Magnet Change/Move | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.4.1[FS] |
| 1.0.1.1.4.5.2 | Design Mods for RF Cavities Q600 Area | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.4.1[FS] |
| 1.0.1.1.4.5.3 | Design Mods for Power Supplies MI-60 Gallery | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.4.1[FS] |
| 1.0.1.1.4.6 | Design MI-8 Pump Room Water System Installation | Complete | 191d | 03Jan11 30Sep11 | 01Feb11 22Jun11 | None | | None | | | |
| 1.0.1.1.4.6.1 | Determine Basic Pump Room Needs | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.5.1[FS] |
| 1.0.1.1.4.6.2 | Determine Heat Exchanger Size (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | 1.0.1.1.5.4[FS] | |
| 1.0.1.1.4.6.3 | Determine Pond Pump Size (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | 1.0.1.1.5.4[FS] | |
| 1.0.1.1.4.6.4 | Design Pump Room Layout | Complete | 98d | 03Jan11 30Sep11 | 04Feb11 22Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.5.1[FS] |
| 1.0.1.1.4.6.5 | Design Electrical Service Modifications (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | 1.0.1.1.5.4[FS] | |
| 1.0.1.1.4.6.6 | Design Instrumentation & Controls Systems (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | 1.0.1.1.5.4[FS] | |
| 1.0.1.1.4.7 | Analyze RR Cooling System Capacities-2 | Complete | 332d | 15Jun09 15Dec10 | 02Feb09 25May10 | None | | None | | 2.10.9.7[FS]; 1.0.1.1.4.1[FS] | 1.0.1.1.5.4[FS] |
| 1.0.1.1.5 | Recycler Ring Modifications Reviews | Complete | 343d | 17Sep09 01Feb11 | 27Apr09 03Feb11 | None | | None | | | |
| 1.0.1.1.5.1 | 53 Mhz RF System Design Review | Complete | 1d | 25Feb10 25Feb10 | 23Nov09 23Nov09 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.1.3.1.2[FS] | 1.0.1.1.5.2[FS]; 2.0.1.1.2.1[FS] |
| 1.0.1.1.5.2 | 53 Mhz RF System Preprocurement Check | Complete | 1d | 25Feb10 25Feb10 | 28Jan10 28Jan10 | None | | None | | 1.0.1.1.5.1[FS] | 2.0.1.1.2.4[FS]; 2.0.1.1.2.2[FS]; 2.0.1.1.2.7[FS]; 1.0.1.1.6.3[FS]; 2.0.1.1.2.5[FS]; 2.0.1.1.2.6[FS] |
| 1.0.1.1.5.3 | Recycler Transfer Lines Review | Complete | 1d | 12Jul10 12Jul10 | 27Apr09 27Apr09 | None | | None | | 1.0.1.1.6.4[FS]; 1.0.1.1.6.2[FS]; 1.0.1.1.2.1.1.3.1[FS]; 1.0.1.1.2.1.1.3.2[FS]; 1.0.1.1.2.1.3.10[FS]; 1.0.1.1.2.2.3.1[FS]; 1.0.1.1.2.2.3.3[FS]; 1.0.1.1.2.2.3.2[FS]; 2.10.9.7[FS+60d] | 2.0.1.1.1.7.2[FS]; 2.0.1.1.1.13.1[FS]; 1.0.1.1.6.5[FS]; 2.0.1.1.1.13.2[FS]; 2.0.1.1.1.13.3[FS]; 2.0.1.1.1.14.2[FS]; 2.0.1.1.1.14.7[FS]; 2.0.1.1.1.14.13[FS] |
| 1.0.1.1.5.4 | Recycler Cooling Systems Initial Design Review | Complete | 15d | 15Dec10 29Dec10 | 13Jan11 03Feb11 | None | | None | | 1.0.1.1.4.7[FS] | 1.0.1.1.4.6.3[FS]; 2.0.1.1.4.6.2[FS]; 1.0.1.1.4.2.3[FS]; 1.0.1.1.4.3.2[FS]; 1.0.1.1.4.6.6[FS]; 1.0.1.1.4.6.4[FS]; 1.0.1.1.4.6.5[FS]; 1.0.1.1.4.2.4[FS]; 1.0.1.1.4.5.2[FS]; 1.0.1.1.4.4.1[FS]; 1.0.1.1.4.6.2[FS]; 1.0.1.1.4.5.3[FS]; 1.0.1.1.4.4.3[FS]; 1.0.1.1.4.5.1[FS]; 1.0.1.1.4.2.1[FS]; 1.0.1.1.4.4.2[FS]; 1.0.1.1.4.3.3[FS]; 1.0.1.1.4.2.2[FS]; 1.0.1.1.4.6.1[FS]; 1.0.1.1.4.3.1[FS]; 2.0.1.1.4.6.1[FS]; 2.0.1.1.4.6.4[FS]; 2.0.1.1.4.6.3[FS] |
| 1.0.1.1.5.5 | Recycler Cooling System Engineering Design Review (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.1.5.6 | PDS Magnet Design Review | Complete | 15d | 17Sep09 14Dec09 | 22Oct09 11Nov09 | None | | None | | 1.0.1.1.2.1.8.7[FS]; 2.0.4.3.22[FS]; 2.10.10.4[FS] | 2.0.1.1.1.8.1[FS+29d] |
| 1.0.1.1.6 | Recycler Ring Modifications Milestones | Complete | 890d | 18Jan07 02Aug10 | 02Jul07 08Mar10 | None | | None | | | |
| 1.0.1.1.6.3 | RR 53 Mhz RF Design Review Complete | Complete | 0 | 01Mar10 01Mar10 | 28Jan10 28Jan10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.1.5.2[FS] | 2.0.1.1.2.6[FS]; 2.0.1.1.2.7[FS]; 2.0.1.1.2.2[FS]; 2.0.1.1.2.5[FS]; 2.0.1.1.2.4[FS] |
| 1.0.1.1.6.4 | RR Vacuum Window to be Removed Finalized | Complete | 0 | 02Jul07 02Jul07 | 02Jul07 02Jul07 | None | | None | | 1.0.1.1.2.1.1.2[FS+72d] | 1.0.1.1.5.3[FS] |
| 1.0.1.1.6.5 | RR Beamline Modifications Design Review Complete | Complete | 0 | 02Aug10 02Aug10 | 08Mar10 08Mar10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.1.5.3[FS]; 1.0.1.1.2.1.1.4.5[FS]; 1.0.1.1.2.1.1.4.4[FS]; 1.0.1.1.2.1.1.4.3[FS] | 2.0.1.1.1.13.2[FS]; 2.0.1.1.1.13.1[FS]; 2.0.1.1.1.14.7[FS]; 2.0.1.1.1.14.2[FS]; 2.0.1.1.1.14.13[FS] |
| 1.0.1.1.6.6 | RR PDS Magnet Design Finalized | Complete | 0 | 12Sep08 12Sep08 | 24Jun09 24Jun09 | None | | None | | 1.0.1.1.2.1.8.2[FS] | 2.0.1.1.1.8.1[FS] |
| 1.0.1.2 | Recycler Kicker Systems | Complete | 1276d | 01Dec06 04Jan12 | 30Apr07 02Apr12 | None | | None | | | |
| 1.0.1.2.1 | RR Injection & Gap Clearing Prototype Magnet | Complete | 269d | 01Dec06 28Dec07 | 30Apr07 28Dec07 | None | | None | | | |
| 1.0.1.2.1.1 | Design RR Inj/Gap Clearing Prototype Kicker | Complete | 269d | 01Dec06 28Dec07 | 01May07 28Dec07 | None | | None | | | |
| 1.0.1.2.1.1.3 | Finish Design Prototype RR Injection & Gap Clearing Kicker Magnets | Complete | 117d | 07Jun07 28Dec07 | 07Jun07 20Nov07 | None | | None | | 1.0.1.2.1.1.2[FS+27d] | 1.0.1.2.1.2.6[FS]; 1.0.1.2.1.2.4[SS+19d]; 1.0.1.2.1.2.7[FS] |
| 1.0.1.2.1.1.5 | Finish Ceramic Beamtube Brazing Test (20% Moved Off Project) | Complete | 94d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.0.1.2.1.1.4[FS] | 2.0.1.2.1.1.7[FS] |
| 1.0.1.2.1.1.7 | RR Injection & Gap Clearing Design Prototype Magnet PFL Cable Spool Assy | Complete | 96d | 13Jun07 28Dec07 | 13Jun07 26Oct07 | None | | None | | 1.0.1.2.7.1[FS+50d] | 1.0.1.2.2.2.7[FS] |
| 1.0.1.2.1.1.8 | Revise Gap Clearing Proto Mag Des & Fab Revised Parts (After 3rd Test) (Moved Off Proj) | Complete | 1d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.4.4.3.4[FS]; 2.0.1.2.2.1.9[FS]; 2.0.1.2.1.1.7[FS]; 1.0.1.2.1.3.12[FF] |
| 1.0.1.2.1.1.9 | Revise GC Mag Des for Production & Choose Ferrite (After 4th/Final Test) (Moved Off Proj) | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.4.4.3.5[FS]; 1.0.4.2.9[FS]; 2.0.1.2.1.1.3[FS]; 2.0.1.2.1.1.9[FS]; 2.0.4.4.3.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.2.1.1.11 | Finish Design Load & Adaptor (50% Moved Off Proj) | Complete | 165d | 04Sep07 28Dec07 | 04Sep07 28Dec07 | None | | None | | 1.0.1.2.1.1.10[FS+88d] | 1.0.1.2.4.1.1[FS]; 1.0.1.2.1.2.10[FS] |
| 1.0.1.2.1.2 | Procurement RR Inj/Gap Clearing Prototype Kicker | Complete | 229d | 02Feb07 28Dec07 | 30Apr07 28Dec07 | None | | None | | | |
| 1.0.1.2.1.2.2 | Oversight for Procure of Ceramic Beamtubes Off Project (35% Moved Off Project) | Complete | 210d | 30Apr07 28Dec07 | 30Apr07 28Dec07 | None | | None | | 1.0.1.2.1.2.1[FS+1d] | 1.0.1.2.1.2.3[FF] |
| 1.0.1.2.1.2.3 | Magnet Measure Tubes as Received (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.2.2[FF] | 2.0.1.2.3.2.1[FS]; 2.0.1.2.1.1.5[FS]; 2.0.1.2.5.1.1[FS] |
| 1.0.1.2.1.2.4 | Gap Clearing Prep Req & Award PO for Proto Ferrites | Complete | 40d | 05Jul07 29Aug07 | 05Jul07 29Aug07 | None | | None | | 1.0.1.2.1.1.3[SS+19d] | 1.0.1.2.1.2.5[FS] |
| 1.0.1.2.1.2.5 | Gap Clearing Receive Prototype Ferrites (20% Moved Off Project) | Complete | 141d | 30Aug07 28Dec07 | 30Aug07 28Dec07 | None | | None | | 1.0.1.2.1.2.4[FS] | 1.0.1.2.1.3.10[FF+40d]; 1.0.1.2.1.3.8[FF] |
| 1.0.1.2.1.2.6 | Procure Tooling for Magnet Potting & Measurement (50% Moved Off Project) | Complete | 80d | 21Nov07 28Dec07 | 21Nov07 28Dec07 | None | | None | | 1.0.1.2.1.1.3[FS] | 2.0.1.2.2.2.5[FS]; 2.0.4.4.3.13[FS]; 1.0.1.2.1.3.10[FF]; 1.0.1.2.1.3.8[FF] |
| 1.0.1.2.1.2.7 | Gap Clearing Procure parts & Fluorinert for prototype magnets (5% Moved Off Project) | Complete | 80d | 21Nov07 28Dec07 | 21Nov07 28Dec07 | None | | None | | 1.0.1.2.1.1.3[FS] | 1.0.1.2.1.3.10[FF] |
| 1.0.1.2.1.2.10 | Procure Prototype Load & Adaptor (5% Moved Off Project) | Complete | 40d | 15Nov07 28Dec07 | 15Nov07 28Dec07 | None | | None | | 1.0.1.2.1.1.11[FS] | 1.0.1.2.1.3.5[FF] |
| 1.0.1.2.1.3 | Assembly & Testing RR Inj/Gap Clearing Prototype Kicker | Complete | 213d | 26Feb07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | |
| 1.0.1.2.1.3.2 | Gap Clearing Assemble 1st Prototype Magnet (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 1.0.1.2.1.3.6[FS] |
| 1.0.1.2.1.3.4 | Finish Assemble Proto Load Temperature Control Skid F in TG Cage (Moved Off Project) | Complete | 47d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.3[FS+140d] | 1.0.1.2.1.3.7[FF] |
| 1.0.1.2.1.3.5 | Assemble Prototype Load & Adaptor (Moved Off Project) | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.2.10[FF] | 1.0.1.2.1.3.13[FF] |
| 1.0.1.2.1.3.6 | Gap Clearing Low voltage testing of 1st Prototype Magnet (Moved Off Project) | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.2[FS] | 1.0.1.2.1.3.7[FF] |
| 1.0.1.2.1.3.7 | Gap Clearing HV Testing of 1st Prototype RR Inj/Gap Clearing Magnet in TG Cage (Moved Off | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.6[FF]; 1.0.1.2.1.3.4[FF] | 1.0.1.2.1.3.11[FF] |
| 1.0.1.2.1.3.8 | Gap Clearing Assemble 3rd Prototype Magnet (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.2.6[FF]; 1.0.1.2.1.2.5[FF] | 1.0.1.2.1.3.9[FF] |
| 1.0.1.2.1.3.9 | Gap Clearing Low Voltage & High Voltage Testing of 3rd Prototype Magnet (Moved Off | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.11[FF]; 1.0.1.2.1.3.8[FF] | |
| 1.0.1.2.1.3.10 | Gap Clearing Assemble 2nd Prototype Magnet (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.2.7[FF]; 1.0.1.2.1.2.6[FF]; 1.0.1.2.1.2.5[FF+40d] | 1.0.1.2.1.3.11[FF] |
| 1.0.1.2.1.3.11 | Gap Clearing Low Voltage & High Voltage Testing of 2nd Prototype Magnet (Moved Off | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.7[FF]; 1.0.1.2.1.3.10[FF] | 1.0.1.2.1.3.9[FF] |
| 1.0.1.2.1.3.12 | Gap Clearing Pot prototype magnet (Moved Off Project) | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.1.8[FF] | 1.0.1.2.1.3.13[FF] |
| 1.0.1.2.1.3.13 | Gap Clearing Low Voltage & High Voltage Testing of 4th/Final Prototype Magnet (Moved Off | Complete | 30d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.3.12[FF]; 1.0.1.2.1.3.5[FF] | 1.0.1.2.7.5[FF] |
| 1.0.1.2.2 | RR Injection & Gap Clearing Prototype Pulser | Complete | 1212d | 01Dec06 28Sep11 | 01May07 01Feb11 | None | | None | | | |
| 1.0.1.2.2.1 | Design of RR Injection & Gap Clearing Prototype Pulser & Final Pulser Enclosure | Complete | 1054d | 01Dec06 15Feb11 | 28Dec07 12Nov10 | None | | None | | | |
| 1.0.1.2.2.1.2 | Gap Clearing Design Bumper PFN (Moved Off Project) | Complete | 24d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.1.2.4.3.2[FS]; 2.0.1.2.2.6.1[FS] |
| 1.0.1.2.2.1.3 | Gap Clearing Revise Design of Pulsers (Moved Off Project) | Complete | 20d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 1.0.1.2.6.3[FF] |
| 1.0.1.2.2.1.4 | Gap Clearing Design Resonant Charger (2) Types (Moved Off Project) | Complete | 24d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 1.0.1.2.2.2.14[FS] |
| 1.0.1.2.2.1.5 | RR Injection Bumper PFN Design | Complete | 10d | 15Nov10 15Feb11 | 01Nov10 12Nov10 | None | | None | | 2.10.10.10[FS+10d]; 2.10.9.7[FS] | 2.0.1.2.4.3.2[FS]; 2.0.1.2.2.6.1[FS] |
| 1.0.1.2.2.2 | Procurement RR Injection & Gap Clearing Prototype Pulser | Complete | 1044d | 01Dec06 01Feb11 | 01May07 01Feb11 | None | | None | | | |
| 1.0.1.2.2.2.1 | RR Injection & Gap Clearing Prep Req & Award PO for Parts & Fluorinert for 2 Prototype pulsers | Complete | 44d | 01May07 02Jul07 | 01May07 02Jul07 | None | | None | | 1.0.1.2.2.1.1[FS+42d] | 1.0.1.2.2.2.2[FF+20d] |
| 1.0.1.2.2.2.2 | RR Injection & Gap Clearing Receive Parts & Fluorinert for 2 Prototype pulsers | Complete | 45d | 29May07 31Jul07 | 29May07 31Jul07 | None | | None | | 1.0.1.2.2.2.1[FF+20d] | 1.0.1.2.2.3.1[FS] |
| 1.0.1.2.2.2.5 | Prep Req & Award PO for 1 Prototype HV power supply pulser (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.1.2.2.2.1[FF]; 1.0.1.2.2.2.6[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.2.2.2.6 | Receive Parts for 1 Prototype HV Power Supply Pulser (Moved Off Project) | Complete | 21d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.2.2.5[FF] | |
| 1.0.1.2.2.2.7 | RR Injection Pre-production Pulser Prep Req & Award PO for 5 PFL Frames-1 | Complete | 20d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS]; 1.0.1.2.1.1.7[FS] | 1.0.1.2.2.2.15[FS] |
| 1.0.1.2.2.2.8 | RR Injection Pre-production Pulser Receive 5 PFL Frames | Complete | 40d | 01Dec10 29Dec10 | 15Nov10 14Jan11 | None | | None | | 1.0.1.2.2.2.15[FS] | 1.0.1.2.2.2.9[FF] |
| 1.0.1.2.2.2.9 | RR Inj & Pre-prod Pulser Procure 3 Spare PFL Frames-1 | Complete | 80d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 1.0.1.2.2.2.8[FF] | 1.0.1.2.2.2.16[FS] |
| 1.0.1.2.2.2.10 | RR Injection & Pre-production Pulser Prep Req & Award PO for All Cable-1 | Complete | 30d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS]; 1.0.1.2.1.3.1[FS] | 1.0.1.2.2.2.17[FS] |
| 1.0.1.2.2.2.11 | RR Injection & Pre-production Pulser Receive All Cable | Complete | 90d | 03May10 28May10 | 03Mar09 08Jul09 | None | | None | | 1.0.1.2.2.2.17[FS-64d] | 1.0.1.2.2.3.5[FS] |
| 1.0.1.2.2.2.12 | RR Injection Pre-production Pulser Procure Spare Cable (3 spools) | Complete | 111d | 05Apr10 28May10 | 02Feb09 21Jul09 | None | | None | | 1.0.1.2.1.3.1[FS]; 2.0.4.4.1.4[FS-64d]; 2.10.9.7[FS] | 1.0.1.2.2.3.5[FS] |
| 1.0.1.2.2.2.13 | RR Injection Bumper PFN Procure Parts (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.2.2.14 | RR Injection Resonant Charger Procure Parts for 1 Assy | Complete | 50d | 01Sep09 15Feb10 | 02Feb09 24Apr09 | None | | None | | 1.0.1.2.2.1.4[FS]; 2.10.9.7[FS] | 2.0.1.2.4.3.6[FS]; 1.0.1.2.2.3.9[FS] |
| 1.0.1.2.2.2.15 | RR Injection Pre-production Pulser Prep Req & Award PO for 5 PFL Frames-2 | Complete | 42d | 22Jan10 09Feb10 | 06Nov09 12Jan10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.2.2.7[FS]; 2.10.9.7[FS]; 2.0.4.4.1.4[FS-64d] | 1.0.1.2.2.2.8[FS] |
| 1.0.1.2.2.2.16 | RR Inj & Pre-prod Pulser Procure 3 Spare PFL Frames-2 | Complete | 98d | 01Feb10 26Feb10 | 25Feb10 14Jul10 | None | | None | | 2.10.9.7[FS]; 1.0.1.2.2.2.9[FS]; 2.0.4.4.1.4[FS-24d] | 1.0.1.2.2.3.7[FS] |
| 1.0.1.2.2.2.17 | RR Injection & Pre-production Pulser Prep Req & Award PO for All Cable-2 | Complete | 21d | 01Feb10 26Feb10 | 02Feb09 02Mar09 | None | | None | | 1.0.1.2.2.2.10[FS]; 2.10.9.7[FS]; 2.0.4.4.1.4[FS-64d] | 1.0.1.2.2.2.11[FS-64d] |
| 1.0.1.2.2.3 | Assembly/Testing/Install RR Injection & Gap Clearing Prototype Pulser | Complete | 1110d | 01May07 28Sep11 | 01May07 01Feb11 | None | | None | | | |
| 1.0.1.2.2.3.1 | Gap Clearing Assemble Prototype pulsers (2) (Moved Off Project) | Complete | 60d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.2.2.2[FS]; 1.0.1.2.2.2.4[FS] | 1.0.1.2.2.3.2[FS] |
| 1.0.1.2.2.3.2 | Gap Clearing Testing of Prototype Pulsers (2) (Moved Off Project) | Complete | 60d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.2.3.1[FS]; 1.0.1.2.2.3.3[FS] | |
| 1.0.1.2.2.3.3 | RR Injection Clear Transfer Gallery Cage for Prototype Testing | Complete | 5d | 01May07 07May07 | 01May07 07May07 | None | | None | | | 1.0.1.2.2.3.2[FS] |
| 1.0.1.2.2.3.4 | RR Injection Bumper PFN Assemble & Test (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.2.3.5 | RR Injection HV & Impedance Testing of Cable | Complete | 55d | 24May10 18Jan11 | 10Sep10 29Nov10 | None | | None | | 2.0.1.2.4.1.18[FS]; 1.0.1.2.2.2.11[FS]; 2.0.1.2.4.1.20[FS]; 2.10.10.10[FS+7d]; 2.0.1.2.4.1.19[FS]; 1.0.1.2.2.2.12[FS] | |
| 1.0.1.2.2.3.6 | RR Inj Wind 5 Cables on PFL frames (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.2.3.7 | RR Inj Wind Cables on 3 Spare PFL Frames | Complete | 3d | 02May11 27May11 | 15Jul10 19Jul10 | None | | None | | 1.0.1.2.2.2.16[FS] | 1.0.1.2.2.3.11[FS] |
| 1.0.1.2.2.3.8 | RR Injection Install 5 PFL Frames in MI-14 Bldg (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | 2.0.4.4.3.9[FS] |
| 1.0.1.2.2.3.9 | RR Injection Resonant Charger Assemble & Test 1 Assys | Complete | 24d | 01Apr10 30Jun10 | 27Apr09 29May09 | None | | None | | 1.0.1.2.2.2.14[FS]; 1.0.1.2.4.2.3.6[FS] | 2.0.1.2.2.2.9[FS]; 2.0.1.2.4.3.5[FS]; 2.0.1.2.2.2.6[FS] |
| 1.0.1.2.2.3.10 | Gap Clearing Install 6 PFL Frames in MI-39 Bldg (Moved Off Project) | Complete | 6d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.4.4.3.9[FS] |
| 1.0.1.2.2.3.11 | RR Inj Install 3 Spare PFL Frames in MI-14 Bldg | Complete | 3d | 22Aug11 28Sep11 | 20Jul10 22Jul10 | None | | None | | 1.0.1.2.2.3.7[FS]; 2.0.4.4.1.4[FS] | |
| 1.0.1.2.2.3.12 | Gap Clearing Install 3 Spare PFL Frames in MI-39 Bldg (Moved Off Project) | Complete | 3d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.4.4.3.8[FS] |
| 1.0.1.2.2.3.13 | RR Injection Bumper PFN Install in MI-14 (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.2.3.14 | RR Injection Install Resonant Charger in MI-14 (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.3 | RR Injection & Gap Clearing Prototype Bumper Power Supply | Complete | 188d | 02Apr07 28Dec07 | 21May07 28Dec07 | None | | None | | | |
| 1.0.1.2.3.4 | Procure Vacuum Parts & Stands for RR Injection Bumper Magnet | Complete | 45d | 21May07 24Jul07 | 21May07 24Jul07 | None | | None | | 1.0.1.2.3.3[FS+28d] | 1.0.1.2.3.5[FS] |
| 1.0.1.2.3.5 | Procure Bumper Magnet from Spares | Complete | 3d | 25Jul07 27Jul07 | 25Jul07 27Jul07 | None | | None | | 1.0.1.2.3.4[FS] | 1.0.1.2.3.6[FS] |
| 1.0.1.2.3.6 | Pull Cables & Install Magnet in MI @Q103 | Complete | 40d | 20Aug07 15Oct07 | 20Aug07 15Oct07 | None | | None | | 1.0.1.2.3.5[FS]; 2.10.10.1[FS+10d] | 2.10.10.2[FS] |
| 1.0.1.2.3.8 | Update Design of Bumper Pulser PS (Moved Off Project) | Complete | 14d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.3.7[FF] | 1.0.1.2.6.9[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.2.4 | RR Ext/MI Inj Kicker Magnets | Complete | 1210d | 10Jan07 28Oct11 | 28Dec07 07Apr11 | None | | None | | | |
| 1.0.1.2.4.1 | RR Ext/MI Inj/RR Abort Kicker Magnets | Complete | 538d | 28Dec07 19Feb10 | 28Dec07 24Apr09 | None | | None | | | |
| 1.0.1.2.4.1.1 | RR Extract/MI Inject/RR Abort Kicker Magnet Design Mods to Existing Magnets | Complete | 15d | 20Feb09 19Feb10 | 02Feb09 20Feb09 | None | | None | | 2.10.10.4[FS]; 1.0.1.2.1.1.11[FS]; 2.10.9.7[FS] | 1.0.1.2.6.4[FS]; 1.0.1.2.6.8[FS]; 2.0.1.2.5.1.2[FS]; 2.0.1.1.1.2.4[FS] |
| 1.0.1.2.4.1.2 | Gap Clearing Design Prototype Fluorinert Temp Control Syst Skids A, B (Moved Off Project) | Complete | 60d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.1.1.6[FS] | 1.0.1.2.4.2.2.9[FF]; 1.0.1.2.4.1.3[FS] |
| 1.0.1.2.4.1.3 | RR Extraction/MI Injection Kicker Design for Fluorinert System | Complete | 60d | 20Feb09 19May09 | 02Feb09 24Apr09 | None | | None | | 1.0.1.2.4.1.2[FS]; 2.10.9.7[FS] | 2.0.1.2.5.1.6[FS]; 1.0.1.2.5.2.2[FS]; 2.0.1.2.3.2.7[FS] |
| 1.0.1.2.4.2 | MI Injection Kicker Prototype Tail Bumper System | Complete | 1210d | 10Jan07 28Oct11 | 28Dec07 07Apr11 | None | | None | | | |
| 1.0.1.2.4.2.1 | Design MI Injection Prototype Tail Bumper PS | Complete | 408d | 22Mar10 28Oct11 | 02Feb09 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.1.1 | Design Prototype MI Injection Kicker Tail Bumper Power Supply | Complete | 80d | 22Mar10 28Oct11 | 02Feb09 22May09 | None | | None | | 2.10.9.7[FS] | 1.0.1.2.6.4[FS]; 1.0.1.2.6.6[FS] |
| 1.0.1.2.4.2.1.2 | Revise MI Injection Kicker Prototype Tail Bumper PS Design & Fab Revised Parts | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.2 | Procurement MI Injection Prototype Kicker Tail Bumper Power Supply & Test Magnet | Complete | 966d | 28Dec07 28Oct11 | 28Dec07 24Feb11 | None | | None | | | |
| 1.0.1.2.4.2.2.1 | Prep Req & Award PO for Capacitors & Ferrites for 1 Test Magnet | Complete | 26d | 29Mar10 19May10 | 03Apr09 29May09 | None | | None | | 1.0.1.2.6.8[FS+28d] | 1.0.1.2.4.2.2.2[FS+50d] |
| 1.0.1.2.4.2.2.2 | Receive Capacitors & Ferrites for 1 Test Magnet | Complete | 57d | 31Aug10 25Oct10 | 02Aug10 20Oct10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.4.2.2.1[FS+50d] | 1.0.1.2.4.2.3.2[FS] |
| 1.0.1.2.4.2.2.4 | Prep Req & Award PO for Parts & Fluorinert for Prototype Tail Bumper PS | Complete | 40d | 01Apr10 30Sep10 | 27May09 22Jul09 | None | | None | | 1.0.1.2.6.6[FS]; 2.10.9.7[FS] | 1.0.1.2.4.2.2.5[FS] |
| 1.0.1.2.4.2.2.5 | Receive Parts & Fluorinert for Prototype Tail Bumper PS | Complete | 40d | 19Jul10 28Oct11 | 29Dec10 24Feb11 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.4.2.2.4[FS] | 1.0.1.2.4.2.3.3[FS] |
| 1.0.1.2.4.2.2.6 | MI Injection Bumper PFN Procure Parts (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.2.7 | Prep Req & Award PO for Parts & Fluorinert for 1 Test Magnet | Complete | 40d | 29Mar10 30Apr10 | 24Feb09 20Apr09 | None | | None | | 1.0.1.2.6.8[FS] | 1.0.1.2.4.2.2.8[FS] |
| 1.0.1.2.4.2.2.8 | Receive Parts & Fluorinert for 1 Test Magnet | Complete | 40d | 26May10 24Sep10 | 21Apr09 16Jun09 | None | | None | | 1.0.1.2.4.2.2.7[FS] | 1.0.1.2.4.2.3.2[FS] |
| 1.0.1.2.4.2.2.9 | Prep Req & Award PO for Parts & Fluorinert for Proto Cooling Skid A (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.4.1.2[FF] | 1.0.1.2.4.2.2.10[FF] |
| 1.0.1.2.4.2.2.10 | Receive Parts & Fluorinert for Protot Cooling Skid A | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.4.2.2.9[FF] | 1.0.1.2.4.2.3.6[FF] |
| 1.0.1.2.4.2.3 | Assembly & Testing MI Inj Prototype Kicker, Tail Bumper PS & Pulser System | Complete | 1210d | 10Jan07 28Oct11 | 28Dec07 07Apr11 | None | | None | | | |
| 1.0.1.2.4.2.3.2 | MI Injection Assemble Test Magnet | Complete | 40d | 25Oct10 15Dec10 | 21Oct10 17Dec10 | None | | None | | 1.0.1.2.4.2.2.8[FS]; 1.0.1.2.4.2.2.2[FS] | 1.0.1.2.4.2.3.9[FS]; 2.0.1.2.4.3.2[FS]; 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.4.2.3.3 | MI Inj Assemble Prototype Tail Bumper PS Pulser | Complete | 30d | 16Aug10 28Oct11 | 25Feb11 07Apr11 | None | | None | | 1.0.1.2.4.2.2.5[FS] | 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.4.2.3.4 | MI Inj Bumper PFN Assemble & Test | Complete | 12d | 06Dec10 28Oct11 | 11Mar11 28Mar11 | None | | None | | 2.0.1.2.4.3.2[FS] | 2.0.1.2.4.3.3[FS] |
| 1.0.1.2.4.2.3.5 | Install MI Injection Bumper PFN in MI-30 (OBSOLETE) | Complete | 1d | 01Mar11 01Mar11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.3.6 | Gap Clearing Assemble Prototype Load Temperature Control Skid A in PS-4 (Moved Off | Complete | 30d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.4.2.2.10[FF] | 1.0.1.2.2.3.9[FS] |
| 1.0.1.2.4.2.3.7 | MI Inj High Voltage Testing of Prototype Tail Bumper with Test Magnet (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.3.8 | RR Inj Move Fluorinert Skid A to MI-14 for HV Testing RR Inj Pre Prod Kicker (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.4.2.3.9 | HV test MI inj test magnet | Complete | 20d | 16Nov10 20Jul11 | 20Dec10 20Jan11 | None | | None | | 1.0.1.2.4.2.3.2[FS] | 2.0.1.2.3.2.3[FS]; 2.0.1.2.3.2.5[FS]; 2.0.1.2.5.1.2[FS]; 2.0.1.2.5.1.4[FS]; 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.5 | RR Ext/MI Inj Kicker Power Supply System | Complete | 919d | 04Jun07 01Feb11 | 04Jun07 01Feb11 | None | | None | | | |
| 1.0.1.2.5.1 | RR Ext/MI Inj Kicker PS Prototype Design | Complete | 627d | 04Jun07 30Nov09 | 04Jun07 27Feb09 | None | | None | | | |
| 1.0.1.2.5.1.1 | RR Ext Line Kicker PS Update Current HV Pulser Design | Complete | 20d | 01May09 30Nov09 | 02Feb09 27Feb09 | None | | None | | 2.10.10.4[FS]; 2.10.9.7[FS] | 1.0.1.2.6.4[FF]; 1.0.1.2.6.7[FS] |
| 1.0.1.2.5.1.2 | Design MI Injection/RR Extraction/Beam Abort Prototype Magnet PFL Cable Spool Assy | Complete | 104d | 04Jun07 01Nov07 | 04Jun07 29Oct07 | None | | None | | 1.0.1.2.7.2[FS+43d] | 1.0.1.2.5.2.7[FS]; 2.0.1.2.4.1.11[FS]; 1.0.1.2.5.2.5[FS]; 2.0.1.2.5.1.8[FS]; 2.0.1.2.5.1.10[FS]; 2.0.1.2.4.1.13[FS] |
| 1.0.1.2.5.2 | RR Ext/MI Inj Kicker PS Prototype Procurement | Complete | 605d | 02Sep08 01Feb11 | 02Feb09 01Feb11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.2.5.2.1 | MI Inj Resonant Charger Procure (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.1.2.5.2.2 | MI Inj Kick Prep Req & Award PO for Parts & Fluorinert for Cool Sys Skid D | Complete | 40d | 01Sep09 30Nov09 | 27Apr09 22Jun09 | None | | None | | 1.0.1.2.4.1.3[FS] | 1.0.1.2.5.2.3[FF+40d] |
| 1.0.1.2.5.2.3 | MI Inject Kicker Receive Parts & Fluorinert for Cooling Skid D | Complete | 21d | 28Dec09 07Apr10 | 29Dec09 29Jan10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.5.2.2[FF+40d] | 1.0.1.2.5.2.4[FS]; 1.0.1.2.5.3.5[FS] |
| 1.0.1.2.5.2.4 | MI Inj Kicker Assemble Fluorinert Cooling Skid D in MI-30 | Complete | 40d | 02Nov09 07Jul10 | 01Feb10 26Mar10 | None | | None | | 1.0.1.2.5.2.3[FS] | 2.0.1.2.3.3.9[FS] |
| 1.0.1.2.5.2.5 | MI Injection Kicker PS Prep Req & Award PO for 12 PFL Frames | Complete | 40d | 02Sep08 31Oct08 | 02Feb09 27Mar09 | None | | None | | 1.0.1.2.5.1.2[FS]; 2.10.9.7[FS] | 1.0.1.2.5.2.6[FS] |
| 1.0.1.2.5.2.6 | MI Injection Kicker PS Receive 12 PFL Frames | Complete | 40d | 06Feb09 06Mar09 | 30Mar09 22May09 | None | | None | | 2.10.9.7[FS]; 1.0.1.2.5.2.5[FS] | 1.0.1.2.5.3.1[FS] |
| 1.0.1.2.5.2.7 | MI Inj Kicker PS Procure 2 Hot Spare PFL Frames | Complete | 80d | 15Sep09 16Sep09 | 02Feb09 22May09 | None | | None | | 1.0.1.2.5.1.2[FS]; 2.0.4.4.1.4[FS-100d]; 2.10.9.7[FS] | 1.0.1.2.5.3.2[FS] |
| 1.0.1.2.5.2.8 | RR Extraction Line Kicker PS Prep Req & Award PO for Thyratrons for 1 HV Prototype Pulser | Complete | 40d | 03Feb09 03Feb09 | 03Mar09 27Apr09 | None | | None | | 2.10.9.4[FS] | 1.0.1.2.5.2.9[FS] |
| 1.0.1.2.5.2.9 | RR Extraction Line Kicker PS ReceiveThyratrons for 1 HV Prototype Pulser | Complete | 80d | 04Feb09 31Jul09 | 28Apr09 19Aug09 | None | | None | | 1.0.1.2.5.2.8[FS] | 1.0.1.2.5.3.5[FS] |
| 1.0.1.2.5.2.10 | RR Extract Line Kicker PS Prep Req & Award PO for All Other Parts for 1 HV Prototype Pulser | Complete | 40d | 16Feb09 15Feb10 | 03Mar09 27Apr09 | None | | None | | 2.10.9.4[FS] | 1.0.1.2.5.2.11[FS+40d] |
| 1.0.1.2.5.2.11 | RR Extract Line Kicker PS Receive All Other Parts for 1 Prototype HV Pulser | Complete | 80d | 24Feb10 30Jun10 | 02Feb10 24May10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.5.2.10[FS+40d] | 1.0.1.2.5.3.5[FS] |
| 1.0.1.2.5.2.12 | MI Inj/RR Extraction/Beam Abort Line Kicker Prep Req & Issue PO for Cable for Prototype | Complete | 40d | 02Sep08 26Sep08 | 02Feb09 27Mar09 | None | | None | | 1.0.1.2.7.2[FS]; 2.10.9.7[FS] | 1.0.1.2.5.2.13[FF+130d] |
| 1.0.1.2.5.2.13 | MI Inj/RR Extraction/Beam Abort Line Kicker Receive Cable for Prototype | Complete | 40d | 09Feb09 24Jul09 | 16Sep09 30Sep09 | None | | None | | 1.0.1.2.5.2.12[FF+130d] | 1.0.1.2.5.3.1[FS]; 1.0.1.2.5.3.2[FS] |
| 1.0.1.2.5.3 | RR Ext/MI Inj Kicker PS Prototype Assembly & Test | Complete | 418d | 27Feb09 22Oct10 | 01Oct09 07Jul10 | None | | None | | | |
| 1.0.1.2.5.3.1 | MI Injection Kicker PS Wind Cables on 12 PFL frames | Complete | 12d | 27Feb09 30Sep09 | 01Oct09 16Oct09 | None | | None | | 2.10.10.4[FS]; 1.0.1.2.5.2.13[FS]; 1.0.1.2.5.2.6[FS] | 1.0.1.2.5.3.3[FS] |
| 1.0.1.2.5.3.2 | MI Inj Kicker PS Wind Cables on 2 Spare Hot PFL Frames | Complete | 2d | 25Sep09 30Sep09 | 01Feb10 02Feb10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.2.5.2.13[FS]; 1.0.1.2.5.2.7[FS] | 1.0.1.2.5.3.4[FS] |
| 1.0.1.2.5.3.3 | MI Injection Kicker PS Install 12 PFL Frames in MI-30 | Complete | 12d | 01May09 16Oct09 | 19Oct09 03Nov09 | None | | None | | 1.0.1.2.5.3.1[FS] | 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.5.3.4 | MI Injection Kicker PS Install 2 Spare PFL Frames in MI-30 Bldg | Complete | 2d | 01Oct09 16Oct09 | 03Feb10 04Feb10 | None | | None | | 1.0.1.2.5.3.2[FS] | 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.5.3.5 | RR Extraction Kicker PS Assemble 1 HV pulsers (Incl Controls) | Complete | 30d | 12Apr10 22Oct10 | 25May10 07Jul10 | None | | None | | 1.0.1.2.5.2.11[FS]; 1.0.1.2.5.2.9[FS]; 1.0.1.2.5.2.3[FS] | 2.0.1.2.4.3.4[FS] |
| 1.0.1.2.6 | Recycler Kicker Systems Reviews | Complete | 1182d | 19Jan07 28Sep11 | 28Dec07 26May09 | None | | None | | | |
| 1.0.1.2.6.3 | Review Design of Gap Clearing Pulsers (Moved Off Project) | Complete | 1d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.2.1.3[FF] | |
| 1.0.1.2.6.4 | Review Final Design of All Kicker Systems | Complete | 1d | 02May11 18May11 | 26May09 26May09 | None | | None | | 1.0.1.2.4.1.1[FS]; 1.0.1.2.5.1.1[FF]; 1.0.1.2.4.2.1.1[FS] | 1.0.1.2.6.5[FF] |
| 1.0.1.2.6.5 | RR Inj & Gap Clearing Design after Review & Testing (Moved Off Project) | Complete | 5d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.6.4[FF] | 1.0.1.2.7.6[FF] |
| 1.0.1.2.6.6 | MI Injection Kicker Tail Bumper PS Design Review | Complete | 1d | 15Nov10 15Nov10 | 26May09 26May09 | None | | None | | 1.0.1.2.4.2.1.1[FS] | 1.0.1.2.4.2.2.4[FS] |
| 1.0.1.2.6.7 | RR Extraction PS System Design Review | Complete | 1d | 06Jan11 06Jan11 | 02Mar09 02Mar09 | None | | None | | 1.0.1.2.5.1.1[FS] | 2.0.1.2.3.2.11[FS]; 2.0.1.2.4.1.1[FS]; 2.0.1.2.6.1[FS]; 2.0.1.2.4.1.5[FS]; 2.0.1.2.4.1.23[FS] |
| 1.0.1.2.6.8 | RR Extract/MI Inject/RR Abort Kicker Magnet Design Review | Complete | 1d | 19Sep11 28Sep11 | 23Feb09 23Feb09 | None | | None | | 1.0.1.2.4.1.1[FS]; 2.0.1.1.1.2.4[FS] | 1.0.1.2.4.2.2.1[FS+28d]; 1.0.1.2.4.2.2.7[FS]; 2.0.1.2.5.1.1[FS]; 2.0.1.2.5.1.6[FS]; 2.0.1.1.1.2.12[FS] |
| 1.0.1.2.6.9 | RR Inj & Gap Clearing Bumper PS Design Review (Moved Off Project) | Complete | 1d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.3.8[FF] | 2.0.1.2.2.1.9[FS]; 2.0.4.4.3.11[FS] |
| 1.0.1.2.7 | Recycler Kicker Systems Milestones | Complete | 1194d | 02Apr07 04Jan12 | 28Dec07 02Apr12 | None | | None | | | |
| 1.0.1.2.7.4 | RR Extraction MI Injection Kicker Prototype Pulser System Complete | Complete | 0 | 04Jan12 04Jan12 | 02Apr12 02Apr12 | None | | None | | 2.0.1.2.4.3.4[FS] | 2.0.1.2.4.3.1[FS] |
| 1.0.1.3 | Recycler Instrumentation | Complete | 1236d | 01May07 02Apr12 | 01May07 12Jan10 | None | | None | | | |
| 1.0.1.3.1 | BPMs | Complete | 724d | 01May07 19Mar10 | 01May07 02Mar09 | None | | None | | | |
| 1.0.1.3.1.1 | Design BPM Cables & Transition Boards | Complete | 21d | 01May07 30May07 | 01May07 30May07 | None | | None | | 2.0.4.3.12[FS] | 1.0.1.3.1.2[FS] |
| 1.0.1.3.1.2 | Finalize Design BPM Cables & Transition Boards | Complete | 21d | 01Aug08 19Mar10 | 02Feb09 02Mar09 | None | | None | | 1.0.1.3.1.1[FS]; 2.10.9.7[FS] | 2.0.1.3.1.2[FS]; 2.0.1.3.1.1[FS]; 1.0.1.3.3.1[FS+20d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.1.3.2 | Dampers | Complete | 741d | 18Feb09 31Jan12 | 29May09 14Jul09 | None | | None | | | |
| 1.0.1.3.2.1 | Longitudinal | Complete | 426d | 18Feb09 25Oct10 | 29May09 14Jul09 | None | | None | | | |
| 1.0.1.3.2.1.1 | Design Longitudinal Dampers | Complete | 52d | 18Feb09 25Oct10 | 29May09 14Jul09 | None | | None | | 2.10.9.7[FS+83d] | 1.0.1.3.3.1[FS+20d]; 2.0.1.3.3.1.1[FS] |
| 1.0.1.3.2.2 | Transverse | Complete | 741d | 18Feb09 31Jan12 | 29May09 14Jul09 | None | | None | | | |
| 1.0.1.3.2.2.1 | Design Transverse Dampers | Complete | 52d | 18Feb09 31Jan12 | 29May09 14Jul09 | None | | None | | 2.10.9.7[FS+83d] | 1.0.1.3.3.1[FS+20d] |
| 1.0.1.3.3 | Recycler Instrumentation Reviews | Complete | 1d | 02Apr12 02Apr12 | 07Jan10 12Jan10 | None | | None | | | |
| 1.0.1.3.3.1 | Instrumentation Design Review | Complete | 4d | 02Apr12 02Apr12 | 07Jan10 12Jan10 | None | | None | | 1.0.1.3.2.2.1[FS+20d]; 2.0.4.3.22[FS]; 1.0.1.3.1.2[FS+20d]; 1.0.1.3.2.1.1[FS+20d] | 2.0.1.3.1.2[FS]; 2.0.1.3.3.1.1[FS] |
| 1.0.1.4 | Recycler Radiation Safety | Complete | 979d | 04Sep07 27Jul11 | 04Sep07 20Sep11 | None | | None | | | |
| 1.0.1.4.1 | Recycler Radiation Shielding Study-1 | Complete | 80d | 04Sep07 28Dec07 | 04Sep07 28Dec07 | None | | None | | 2.0.4.3.12[FS+87d] | 1.0.1.4.4[FS] |
| 1.0.1.4.2 | Recycler - Review & Revise Shielding Assessment | Complete | 125d | 02Mar09 27Jul11 | 13Apr09 07Oct09 | None | | None | | 1.0.1.4.4[FS] | 1.0.1.4.3.1[FS] |
| 1.0.1.4.3 | Recycler Radiation Safety Milestones | Complete | 1d | 27Jul11 27Jul11 | 20Sep11 20Sep11 | None | | None | | | |
| 1.0.1.4.3.1 | RR Shielding Assessment Complete | Complete | 0 | 27Jul11 27Jul11 | 20Sep11 20Sep11 | None | | None | | 1.0.1.4.2[FS] | 2.0.4.3.13[FS] |
| 1.0.1.4.4 | Recycler Radiation Shielding Study-2 | Complete | 50d | 02Mar09 31Aug09 | 02Feb09 10Apr09 | None | | None | | 2.10.9.7[FS]; 1.0.1.4.1[FS] | 1.0.1.4.2[FS]; 1.0.2.3.1[FS] |
| 1.0.2 | Main Injector Upgrades | Complete | 1570d | 01Feb07 30Apr13 | 01May07 18Sep12 | None | | None | | | |
| 1.0.2.1 | MI Modifications | Complete | 1507d | 01May07 30Apr13 | 01May07 18Sep12 | None | | None | | | |
| 1.0.2.1.1 | Machine Timing | Complete | 1025d | 01May07 27May11 | 01May07 17Mar11 | None | | None | | | |
| 1.0.2.1.1.1 | Machine Timing | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.1.1 | Design, Modify, Install & Test Beam Swtch Sum Box (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.1.2 | Design, Modify, Install & Test MI beam sync clock (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.1.3 | Design, Modify, Install & Test RR beam sync clock (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.1.4 | Design, Modify, Install & Test TClock (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.1.5 | Design, Modify, Install & Test MI low level RF system (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.2 | Design Modifications to RR low level RF system | Complete | 1025d | 01May07 27May11 | 01May07 17Mar11 | None | | None | | | |
| 1.0.2.1.1.2.1 | RR Low Level RF System Initial Design | Complete | 21d | 01May07 30May07 | 01May07 30May07 | None | | None | | 2.0.4.3.12[FS] | 1.0.2.1.1.2.2[FS] |
| 1.0.2.1.1.2.2 | RR Low Level RF System Design-1 | Complete | 103d | 31May07 28Dec07 | 31May07 28Dec07 | None | | None | | 1.0.2.1.1.2.1[FS] | 1.0.2.1.1.2.5[FS] |
| 1.0.2.1.1.2.3 | RR Low Level RF System Develop Hardware/Software | Complete | 248d | 06Jan09 24Nov09 | 13Apr09 25Sep09 | None | | None | | 1.0.2.1.1.2.5[FS] | 1.0.2.1.1.2.4[FS] |
| 1.0.2.1.1.2.4 | RR Low Level RF System Test Prototype | Complete | 197d | 04Jan10 27May11 | 04Jun10 17Mar11 | None | | None | | 2.0.4.3.22[FS]; 1.0.2.1.1.2.3[FS] | 2.0.2.1.6.5[FS] |
| 1.0.2.1.1.2.5 | RR Low Level RF System Design-2 | Complete | 50d | 01Oct08 08Apr09 | 02Feb09 10Apr09 | None | | None | | 1.0.2.1.1.2.2[FS] | 1.0.2.1.1.2.3[FS] |
| 1.0.2.1.1.3 | Design & Install Injection Line Controls (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.4 | Design & Install Extraction Line Controls (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.5 | Machine Timing - OP | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.5.1 | Define & install inputs to RR beam permit system (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.5.2 | Modify Timeline Generator (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.5.3 | Configure & install kicker timing controls (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.6 | Modify & Install RR Low Level RF System | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.6.1 | RR Low Level RF System Recover & Test Decommissioned Hardware from Tevatron | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.6.2 | RR Low Level RF System Install (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.6.3 | RR Low Level RF System Test (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.1.6.4 | RR Low Level RF System Startup (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.2 | Decommissioning of A1 Line Extraction | Complete | 140d | 02Nov11 24May12 | 02Nov11 18Sep12 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.2.1.2.1 | Removal of 3 Lambertson Magnets (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.2.1.2.3[FS] |
| 1.0.2.1.2.2 | Remove Kicker Magnet (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 1.0.2.1.2.3[FS] |
| 1.0.2.1.2.3 | Align Beam Pipe (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.2.1.2.2[FS]; 1.0.2.1.2.1[FS] | 1.0.2.1.2.4[FS] |
| 1.0.2.1.2.4 | Reconstitute Vacuum (OBSOLETE) | Complete | 1d | 04Nov11 04Nov11 | 04Nov11 04Nov11 | None | | None | | 1.0.2.1.2.3[FS] | |
| 1.0.2.1.2.5 | Remove MI 62 Lambertson | Complete | 3d | 21May12 24May12 | 14Sep12 18Sep12 | None | | None | | 2.10.10.5[FS+95d] | 2.0.1.1.1.14.33.2.3[FS]; 1.0.2.1.6.2[FS] |
| 1.0.2.1.3 | 2.5 Mhz Cavitites (6) | Complete | 135d | 02Nov11 17May12 | 02Nov11 29May12 | None | | None | | | |
| 1.0.2.1.3.1 | 2.5 Mhz Cavity (6) Removal Incl Cables (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 2.0.2.2.3.1[FF]; 1.0.2.1.3.2[FS] |
| 1.0.2.1.3.2 | Align Beam Pipe (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 1.0.2.1.3.1[FS] | 1.0.2.1.3.3[FS] |
| 1.0.2.1.3.3 | Reconstitute Vacuum (OBSOLETE) | Complete | 1d | 04Nov11 04Nov11 | 04Nov11 04Nov11 | None | | None | | 1.0.2.1.3.2[FS] | |
| 1.0.2.1.3.4 | Remove MI RFcoalescing cavities | Complete | 10d | 15May12 17May12 | 15May12 29May12 | None | | None | | 2.10.10.5[FS+10d] | 1.0.2.1.6.1[FS]; 2.0.1.1.1.14.36.1[FS] |
| 1.0.2.1.4 | Main Injector Cooling System | Complete | 710d | 15Nov07 15Sep10 | 15Nov07 10May10 | None | | None | | | |
| 1.0.2.1.4.1 | Analyze MI LCW & Pond Cooling System Capacities-1 | Complete | 39d | 15Nov07 28Dec07 | 15Nov07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.2.1.4.2[FS] |
| 1.0.2.1.4.2 | Analyze MI LCW & Pond Cooling System Capacities-2 | Complete | 295d | 15Jun09 15Sep10 | 02Feb09 10May10 | None | | None | | 1.0.2.1.4.1[FS]; 2.10.9.7[FS]; 2.10.9.8[FS] | 1.0.2.1.5.1[FS] |
| 1.0.2.1.5 | MI Modifications Reviews | Complete | 31d | 15Dec10 01Feb11 | 20Dec10 01Feb11 | None | | None | | | |
| 1.0.2.1.5.1 | MI LCW & Pond Cooling System Design Review | Complete | 10d | 15Dec10 29Dec10 | 20Dec10 05Jan11 | None | | None | | 1.0.2.2.1.3.4[FS]; 1.0.2.1.4.2[FS]; 2.10.9.7[FS+130d] | 1.0.2.2.1.3.3[FS]; 1.0.2.2.1.3.2[FS] |
| 1.0.2.1.5.2 | Des & Modify RR Low Level RF System Review (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.1.6 | MI Modifications Milestones | Complete | 239d | 17May12 30Apr13 | 21May12 12Sep12 | None | | None | | | |
| 1.0.2.1.6.1 | MI 2.5 Mhz Cavities Removal Complete | Complete | 0 | 17May12 17May12 | 21May12 21May12 | None | | None | | 1.0.2.1.3.4[FS] | 2.0.4.3.16[FS] |
| 1.0.2.1.6.2 | MI Decommissioning of A1 Extraction Line Complete | Complete | 0 | 24May12 24May12 | 20Jun12 20Jun12 | None | | None | | 1.0.3.1.2.2.7[FS]; 1.0.2.1.2.5[FS] | 2.0.4.3.15[FS] |
| 1.0.2.1.6.3 | MI Machine Timing Complete | Complete | 0 | 30Apr13 30Apr13 | 12Sep12 12Sep12 | None | | None | | 2.0.2.1.5.3[FS]; 2.0.2.1.5.5[FS]; 2.0.2.1.5.1[FS]; 2.0.2.1.5.2[FS]; 2.0.2.1.5.4[FS]; 2.0.2.1.5.8[FS] | 2.0.4.3.15[FS] |
| 1.0.2.2 | MI RF Cavities | Complete | 1415d | 01Feb07 14Sep12 | 01May07 18Jul12 | None | | None | | | |
| 1.0.2.2.1 | MI RF Cavities | Complete | 1175d | 01Feb07 30Sep11 | 01May07 01Jun11 | None | | None | | | |
| 1.0.2.2.1.1 | Bus Bar | Complete | 84d | 01Feb07 30May07 | 01May07 30May07 | None | | None | | | |
| 1.0.2.2.1.1.2 | MI RF Cavities Finish Design of Bus Bar | Complete | 21d | 01May07 30May07 | 01May07 30May07 | None | | None | | 1.0.2.2.1.1.1[FS] | 2.0.2.2.1.1[FS] |
| 1.0.2.2.1.3 | MI RF Cavity Cooling System | Complete | 973d | 15Nov07 30Sep11 | 15Nov07 01Jun11 | None | | None | | | |
| 1.0.2.2.1.3.1 | Analyze MI Cavity & RF Cooling System Capacities-1 | Complete | 38d | 15Nov07 28Dec07 | 15Nov07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.2.2.1.3.4[FS] |
| 1.0.2.2.1.3.2 | Design RF Cavity Connections Q600 Region | Complete | 98d | 03Jan11 30Sep11 | 13Jan11 01Jun11 | None | | None | | 1.0.2.2.3.1[FS]; 1.0.2.1.5.1[FS] | 2.0.2.2.4.1[FS] |
| 1.0.2.2.1.3.3 | Design RF Power Supply Connections MI-61 Gallery | Complete | 98d | 03Jan11 30Sep11 | 13Jan11 01Jun11 | None | | None | | 1.0.2.2.3.1[FS]; 1.0.2.1.5.1[FS] | 2.0.2.2.4.1[FS] |
| 1.0.2.2.1.3.4 | Analyze MI Cavity & RF Cooling System Capacities-2 | Complete | 295d | 15Jun09 15Dec10 | 02Feb09 11May10 | None | | None | | 2.10.9.7[FS]; 1.0.2.2.1.3.1[FS]; 2.10.9.8[FS] | 1.0.2.1.5.1[FS]; 1.0.2.2.3.1[FS] |
| 1.0.2.2.2 | MI RF Cavities - OP | Complete | 447d | 15Oct08 28Jul10 | 02Feb09 24Apr09 | None | | None | | | |
| 1.0.2.2.2.1 | MI RF Cavity Pre-install Testing (Existing) | Complete | 40d | 15Oct08 22May09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.7[FS] | 2.0.2.2.3.3[FS]; 1.0.2.2.4.1[FF] |
| 1.0.2.2.2.2 | Equip Gallery Install/Modification | Complete | 8d | 19Jul10 28Jul10 | 06Apr09 24Apr09 | None | | None | | | |
| 1.0.2.2.2.2.1 | MI RF Cavities Utility Modifications | Complete | 15d | 19Jul10 28Jul10 | 06Apr09 24Apr09 | None | | None | | 2.10.10.9[FS]; 2.10.10.3[FS] | 2.0.2.2.3.5[FS] |
| 1.0.2.2.3 | MI RF Cavities Reviews | Complete | 30d | 16Dec10 01Feb11 | 20Dec10 01Feb11 | None | | None | | | |
| 1.0.2.2.3.1 | MI RF Cavity Cooling System Initial Design Review | Complete | 15d | 16Dec10 29Dec10 | 20Dec10 12Jan11 | None | | None | | 1.0.2.2.1.3.4[FS] | 1.0.2.2.1.3.3[FS]; 1.0.2.2.1.3.2[FS] |
| 1.0.2.2.3.2 | MI RF Cavity Cooling System Engineering Design Review (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.2.2.4 | MI RF Cavities Milestones | Complete | 1d | 22May09 22May09 | 27Mar09 27Mar09 | None | | None | | | |
| 1.0.2.2.4.1 | MI Cavity Pre-install Testing Complete | Complete | 0 | 22May09 22May09 | 27Mar09 27Mar09 | None | | None | | 1.0.2.2.2.1[FF] | 2.0.2.2.3.3[FS] |
| 1.0.2.2.5 | Align MI 606 - 607 | Complete | 5d | 13Sep12 14Sep12 | 12Jul12 18Jul12 | None | | None | | 2.0.2.2.3.6[FS]; 2.0.2.2.3.9[FS] | 2.0.4.3.15[FS]; 2.0.2.2.3.7[FS] |
| 1.0.2.3 | MI Radiation Safety | Complete | 607d | 02Mar09 27Jul11 | 13Apr09 20Sep11 | None | | None | | | |
| 1.0.2.3.1 | MI Review & Revise Shielding Assessment | Complete | 215d | 02Mar09 27Jul11 | 13Apr09 19Feb10 | None | | None | | 1.0.1.4.4[FS]; 2.0.4.3.12[FS] | 1.0.2.3.2.1[FS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.2.3.2 | MI Radiation Safety Milestones | Complete | 1d | 27Jul11 27Jul11 | 20Sep11 20Sep11 | None | | None | | | |
| 1.0.2.3.2.1 | MI Shielding Assessment Complete | Complete | 0 | 27Jul11 27Jul11 | 20Sep11 20Sep11 | None | | None | | 1.0.2.3.1[FS] | 2.0.4.3.13[FS] |
| 1.0.3 | NuMI Upgrades | Complete | 1303d | 01May07 06Jul12 | 01May07 13Jul12 | None | | None | | | |
| 1.0.3.1 | NuMI Primary Proton Beam | Complete | 803d | 13Apr09 20Jun12 | 27Apr09 08Jun12 | None | | None | | | |
| 1.0.3.1.2 | 3Q120 Quadrupoles | Complete | 341d | 01Feb11 06Jun12 | 01Feb11 08Jun12 | None | | None | | | |
| 1.0.3.1.2.1 | Test 3Q120 Quads to be Recovered (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2 | 3Q120 Quadrupoles | Complete | 341d | 01Feb11 06Jun12 | 01Feb11 08Jun12 | None | | None | | | |
| 1.0.3.1.2.2.1 | Recover A1 Line 3Q120 Quads (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2.2 | 3Q120 Quads Disconnect Water (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2.3 | Components Alignment as Found Old (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | 2.0.3.1.3.6[FS]; 2.0.3.1.3.14[FS] |
| 1.0.3.1.2.2.4 | Disconnect Cables for 5 Quads to be Replaced (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2.5 | Bleed up Vacuum & Disconnect Flanges for Component Replacement (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2.6 | 3Q120 Quads: Remove 5 Old Magnets (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.1.2.2.7 | Remove A150 quads | Complete | 10d | 31Jan12 21May12 | 08May12 21May12 | None | | None | | 2.10.10.5[FS+5d] | 1.0.2.1.6.2[FS]; 2.0.3.1.3.18.1[FS] |
| 1.0.3.1.2.2.8 | As found Q111 - 112 | Complete | 3d | 08May12 10May12 | 08May12 10May12 | None | | None | | 2.10.10.5[FS+5d] | 1.0.3.1.2.2.9[FS] |
| 1.0.3.1.2.2.9 | As found Q113 - 114 and Q120 | Complete | 3d | 08May12 10May12 | 11May12 15May12 | None | | None | | 1.0.3.1.2.2.8[FS] | 2.0.3.1.3.18.1[FS] |
| 1.0.3.1.2.2.10 | Align Q111 - 112 | Complete | 3d | 04Jun12 06Jun12 | 06Jun12 08Jun12 | None | | None | | 2.0.3.1.3.18.1[FS] | 2.0.3.1.3.18.2[FS] |
| 1.0.3.1.2.2.11 | Align Q113 - 114 and Q120 | Complete | 3d | 04Jun12 06Jun12 | 06Jun12 08Jun12 | None | | None | | 2.0.3.1.3.18.1[FS] | 2.0.3.1.5.2[FS]; 2.0.3.3.1.3[FS] |
| 1.0.3.1.4 | NuMI Primary Proton Beam Reviews | Complete | 242d | 13Apr09 30Mar10 | 27Apr09 05Feb10 | None | | None | | | |
| 1.0.3.1.4.1 | Profile Monitors Upgrade Review | Complete | 14d | 13Apr09 08May09 | 27Apr09 01May09 | None | | None | | 2.0.4.4.2.40[FS]; 2.10.9.7[FS+60d] | 2.0.3.1.4.1[FS]; 1.0.3.1.5.2[FS] |
| 1.0.3.1.4.2 | Follow-up to Profile Monitor Upgrade Review | Complete | 5d | 24Mar10 30Mar10 | 01Feb10 05Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.0.3.1.4.1[FS] | 1.0.3.1.5.3[FS+10d] |
| 1.0.3.1.5 | NuMI Primary Proton Beam Milestones | Complete | 784d | 08May09 20Jun12 | 01May09 03Oct11 | None | | None | | | |
| 1.0.3.1.5.1 | NuMI Charging PS Upgrade Design Complete | Complete | 0 | 20Jun12 20Jun12 | 03Oct11 03Oct11 | None | | None | | 2.0.3.1.1.1.1[FS] | 2.0.3.1.1.2.1[FS]; 2.0.3.1.1.1.2[FS] |
| 1.0.3.1.5.2 | NuMI Profile Monitor Conceptual Design Review Complete | Complete | 0 | 08May09 08May09 | 01May09 01May09 | None | | None | | 1.0.3.1.4.1[FS] | |
| 1.0.3.1.5.3 | NuMI Profile Monitor Technical Design Review Complete | Complete | 0 | 28Jan11 28Jan11 | 19Feb10 19Feb10 | None | | None | | 1.0.3.1.4.2[FS+10d] | 2.0.3.1.4.3[FS] |
| 1.0.3.2 | NuMI Target Hall Technical Components | Complete | 876d | 02May08 25Oct11 | 02Feb09 22Apr11 | None | | None | | | |
| 1.0.3.2.1 | ME Target, Carrier & Baffle | Complete | 838d | 02May08 31Aug11 | 02Feb09 02Dec10 | None | | None | | | |
| 1.0.3.2.1.1 | Medium Energy Target | Complete | 838d | 02May08 31Aug11 | 02Mar09 02Dec10 | None | | None | | | |
| 1.0.3.2.1.1.1 | Review of IHEP ME Target Design Study 1 | Complete | 28d | 02May08 30May08 | 02Mar09 08Apr09 | None | | None | | 2.10.9.7[FS+20d] | 1.0.3.2.1.1.2[FS] |
| 1.0.3.2.1.1.2 | IHEP ME Target Design Study 2 | Complete | 125d | 30May08 30Mar09 | 09Apr09 05Oct09 | None | | None | | 1.0.3.2.1.1.1[FS] | 1.0.3.2.1.1.3[FS] |
| 1.0.3.2.1.1.3 | Assess IHEP ME Target Design Study 2 | Complete | 48d | 15May09 19May10 | 06Oct09 14Dec09 | None | | None | | 1.0.3.2.1.1.2[FS] | 1.0.3.2.4.1[FS]; 1.0.3.4.1.1.1[FS] |
| 1.0.3.2.1.1.4 | IHEP Drawing Package for ME Target | Complete | 84d | 15Oct10 21Mar11 | 02Jul10 29Oct10 | None | | None | | 1.0.3.2.1.3.1[FS]; 2.0.3.2.4.7[FS] | 1.0.3.2.1.1.5[FS] |
| 1.0.3.2.1.1.5 | Integrate mechanical drawings from IHEP | Complete | 22d | 21Dec10 31Aug11 | 01Nov10 02Dec10 | None | | None | | 1.0.3.2.1.1.4[FS] | 2.0.3.2.1.1.1[FS] |
| 1.0.3.2.1.2 | Target Carrier | Complete | 281d | 20Jul09 30Aug10 | 30Mar09 14Jul10 | None | | None | | | |
| 1.0.3.2.1.2.1 | Analysis of Carrier for 700kW Beam Power | Complete | 48d | 20Jul09 09Mar10 | 30Mar09 04Jun09 | None | | None | | 2.0.4.3.12[FS]; 2.10.9.7[FS+40d] | 1.0.3.3.4.4[FS]; 1.0.3.2.4.1[FS] |
| 1.0.3.2.1.2.2 | Design of new carrier | Complete | 60d | 09Sep09 30Aug10 | 20Apr10 14Jul10 | None | | None | | 1.0.3.3.5.1[FS]; 1.0.3.2.5.1[FS] | 2.0.3.2.1.2.1[FS] |
| 1.0.3.2.1.3 | Baffle | Complete | 312d | 05Feb09 30Apr10 | 02Feb09 22Jul10 | None | | None | | | |
| 1.0.3.2.1.3.1 | Analyze Baffle for Higher Heat Loads | Complete | 38d | 05Feb09 25Feb10 | 02Feb09 19Feb09 | None | | None | | 2.10.10.4[FS+5d]; 2.0.4.3.12[FS]; 2.10.9.7[FS] | 1.0.3.2.4.1[FS]; 1.0.3.2.1.1.4[FS] |
| 1.0.3.2.1.3.2 | Design Baffle Modifications | Complete | 20d | 15Mar10 30Apr10 | 20Apr10 17May10 | None | | None | | 1.0.3.2.5.1[FS]; 2.10.9.7[FS] | 2.0.3.2.1.3.2[FS] |
| 1.0.3.2.1.3.3 | IHEP Modify Baffle Dwg Package | Complete | 22d | 15Apr10 30Apr10 | 22Jun10 22Jul10 | None | | None | | 2.0.3.2.1.3.2[FS] | 2.0.3.2.1.3.1[FS] |
| 1.0.3.2.2 | Hadron Monitor | Complete | 241d | 17May10 29Apr11 | 02Feb09 27Feb09 | None | | None | | | |
| 1.0.3.2.2.1 | Analyze Current Hadron Monitor Design for Higher Beam Power. | Complete | 53d | 17May10 29Apr11 | 02Feb09 27Feb09 | None | | None | | 2.10.9.7[FS] | 1.0.3.2.4.3[FS] |
| 1.0.3.2.3 | Design Hadron Monitor Beam Abort | Complete | 15d | 01Nov10 29Apr11 | 01Nov10 19Nov10 | None | | None | | 2.0.3.2.2.1[FS]; 2.10.9.9[FS] | |
| 1.0.3.2.4 | NuMI Target Hall Technical Components Reviews | Complete | 422d | 25Feb10 25Oct11 | 02Mar09 01Feb11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.3.2.4.1 | Target, Baffle & Carrier Initial Design Review | Complete | 5d | 25Feb10 15Mar10 | 13Apr10 19Apr10 | None | | None | | 2.0.4.3.22[FS]; 1.0.3.2.1.1.3[FS]; 1.0.3.2.1.3.1[FS]; 1.0.3.2.1.2.1[FS] | 1.0.3.2.5.1[FS] |
| 1.0.3.2.4.2 | Target, Baffle & Carrier Design Review (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.2.4.3 | Hadron Monitor Design Review | Complete | 5d | 19Apr11 30Jun11 | 02Mar09 06Mar09 | None | | None | | 1.0.3.2.2.1[FS] | 1.0.3.2.5.9[FS] |
| 1.0.3.2.4.4 | Target Carrier Design Review | Complete | 10d | 25Oct11 25Oct11 | 14Dec10 29Dec10 | None | | None | | 1.0.3.2.5.3[FS] | 2.0.3.2.1.2.5[FS] |
| 1.0.3.2.5 | NuMI Target Hall Technical Components Milestones | Complete | 329d | 15Mar10 30Jun11 | 06Mar09 22Apr11 | None | | None | | | |
| 1.0.3.2.5.1 | NuMI Target, Baffle & Carrier Initial Design Review Complete | Complete | 0 | 15Mar10 15Mar10 | 19Apr10 19Apr10 | None | | None | | 1.0.3.2.4.1[FS] | 2.0.3.2.1.1.2[FS]; 1.0.3.2.1.3.2[FS]; 1.0.3.2.1.2.2[FS] |
| 1.0.3.2.5.3 | NuMI Final Design of Target Carrier Complete | Complete | 0 | 14Feb11 14Feb11 | 13Dec10 13Dec10 | None | | None | | 2.0.3.2.1.2.1[FS] | 1.0.3.2.4.4[FS] |
| 1.0.3.2.5.9 | NuMI Hadron Monitor Initial Re-design Complete | Complete | 0 | 30Jun11 30Jun11 | 06Mar09 06Mar09 | None | | None | | 1.0.3.2.4.3[FS] | 2.0.3.2.2.1[FS] |
| 1.0.3.2.5.10 | Target Carrier Prototype Complete | Complete | 0 | 30Jun11 30Jun11 | 22Apr11 22Apr11 | None | | None | | 2.0.3.2.1.2.5[FS] | 2.0.3.2.1.2.2[FS] |
| 1.0.3.3 | NuMI Target Hall Infrastructure | Complete | 1303d | 01May07 06Jul12 | 01May07 13Jul12 | None | | None | | | |
| 1.0.3.3.1 | Target Hall Operations Space Planning | Complete | 609d | 01May07 30Sep09 | 01May07 13Apr09 | None | | None | | | |
| 1.0.3.3.1.1 | Target Hall Operations Space Planning | Complete | 155d | 23Feb09 30Sep09 | 10Mar09 13Apr09 | None | | None | | | |
| 1.0.3.3.1.1.1 | Design New Equipment for Operations | Complete | 25d | 23Feb09 30Sep09 | 10Mar09 13Apr09 | None | | None | | 1.0.3.3.4.2[FS]; 1.0.3.3.1.2.2[FS]; 2.10.9.7[FS] | 1.0.3.3.4.6[FS] |
| 1.0.3.3.1.2 | Target Hall Operations Space Planning - OP | Complete | 398d | 01May07 25Nov08 | 01May07 03Mar09 | None | | None | | | |
| 1.0.3.3.1.2.1 | Overall Target Hall Layout for Operations-1 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 2.0.4.3.12[FS] | 1.0.3.3.1.2.2[FF] |
| 1.0.3.3.1.2.2 | Overall Target Hall Layout for Operations-2 | Complete | 22d | 02Jun08 25Nov08 | 02Feb09 03Mar09 | None | | None | | 2.10.9.7[FS]; 1.0.3.3.1.2.1[FF] | 1.0.3.3.2.2.1[FS]; 1.0.3.3.1.1.1[FS]; 1.0.3.3.2.1.1[FS] |
| 1.0.3.3.2 | Horn2 Re-location to Medium Energy | Complete | 1198d | 28Sep07 06Jul12 | 28Sep07 13Jul12 | None | | None | | | |
| 1.0.3.3.2.1 | Stripline Extension | Complete | 362d | 18Aug08 29Jan10 | 04Mar09 23Apr10 | None | | None | | | |
| 1.0.3.3.2.1.1 | Develop Stripline Layout Scheme in Target Hall | Complete | 11d | 18Aug08 29Aug08 | 04Mar09 18Mar09 | None | | None | | 1.0.3.3.1.2.2[FS] | 1.0.3.3.4.2[FS]; 1.0.3.3.2.1.2[FS] |
| 1.0.3.3.2.1.2 | Engineering & Design of stripline extension & Stands | Complete | 193d | 15Dec08 05Jan10 | 14May09 23Oct09 | None | | None | | 1.0.3.3.2.1.1[FS]; 1.0.3.3.4.2[FS]; 2.10.9.7[FS] | 1.0.3.3.2.1.3[FS] |
| 1.0.3.3.2.1.3 | Create Assembly Dwgs for Stripline Extension & Stands | Complete | 25d | 04Jan10 29Jan10 | 22Mar10 23Apr10 | None | | None | | 1.0.3.3.2.1.2[FS]; 2.0.4.3.22[FS] | 2.0.3.3.2.1.1[FS] |
| 1.0.3.3.2.2 | Shielding Reconfiguration | Complete | 293d | 28Sep07 25Nov08 | 28Sep07 07Jul09 | None | | None | | | |
| 1.0.3.3.2.2.1 | Develop shielding reconfiguration plan-1 | Complete | 62d | 28Sep07 28Dec07 | 28Sep07 28Dec07 | None | | None | | 1.0.3.3.1.2.2[FS] | 1.0.3.3.2.2.4[FS] |
| 1.0.3.3.2.2.2 | Develop Blue Block & T-Block Removal/Re-location Plan | Complete | 63d | 02Jun08 25Nov08 | 02Feb09 29Apr09 | None | | None | | 1.0.3.3.2.2.4[FF]; 2.10.9.7[FS] | 1.0.3.3.2.2.3[FS]; 1.0.3.3.4.2[FS] |
| 1.0.3.3.2.2.3 | Design Shielding Blocks & Remote Lifting Components | Complete | 37d | 02Jun08 25Nov08 | 14May09 07Jul09 | None | | None | | 1.0.3.3.2.2.2[FS]; 1.0.3.3.4.2[FS]; 2.10.9.7[FS] | 2.0.3.3.2.2.1[FS] |
| 1.0.3.3.2.2.4 | Develop shielding reconfiguration plan-2 | Complete | 22d | 02Jun08 17Oct08 | 04Mar09 02Apr09 | None | | None | | 1.0.3.3.2.2.1[FS]; 2.10.9.7[FS] | 1.0.3.3.2.2.2[FF]; 1.0.3.3.4.2[FS] |
| 1.0.3.3.2.3 | Shielding Reconfiguration - OP | Complete | 342d | 01Mar11 06Jul12 | 01Jun11 13Jul12 | None | | None | | | |
| 1.0.3.3.2.3.1 | Load Test & Practice Run Remote Lifting Fixture | Complete | 3d | 01Mar11 01Jul11 | 01Jun11 03Jun11 | None | | None | | 2.0.3.3.2.2.5[FS] | 1.0.3.3.2.3.2[FS] |
| 1.0.3.3.2.3.2 | Removal & Storage of R-Blocks & Radioactive DS Blue Blocks | Complete | 9d | 25Jun12 06Jul12 | 02Jul12 13Jul12 | None | | None | | 2.10.10.5[FS+43d]; 1.0.3.3.2.3.1[FS]; 2.0.3.3.2.2.5[FS] | 2.0.3.3.2.2.8[FS+35d] |
| 1.0.3.3.3 | Target Chase | Complete | 1066d | 01May07 27Jul11 | 01May07 06Apr10 | None | | None | | | |
| 1.0.3.3.3.1 | Target Chase Air Cooling | Complete | 576d | 01May07 13Aug09 | 01May07 01Sep09 | None | | None | | | |
| 1.0.3.3.3.1.1 | MARs Simulations for Energy Deposition | Complete | 31d | 01May07 13Jun07 | 01May07 13Jun07 | None | | None | | 2.0.4.3.12[FS] | 1.0.3.3.3.1.2[FF+103d] |
| 1.0.3.3.3.1.2 | FEM 3-D Thermal Analysis | Complete | 72d | 30Jul07 07Nov07 | 30Jul07 07Nov07 | None | | None | | 1.0.3.3.3.1.1[FF+103d] | 1.0.3.3.5.11[FS] |
| 1.0.3.3.3.1.3 | Analyze all components & chase items for temperature limits | Complete | 49d | 01Aug08 10Mar09 | 02Feb09 09Apr09 | None | | None | | 1.0.3.3.5.11[FS]; 2.10.9.7[FS] | 1.0.3.3.3.1.4[FS]; 1.0.3.3.4.4[FS] |
| 1.0.3.3.3.1.4 | Design new chiller coils | Complete | 25d | 27Apr09 13Aug09 | 29Jul09 01Sep09 | None | | None | | 1.0.3.3.3.1.3[FS]; 2.10.9.7[FS+125d] | 1.0.3.3.4.4[FS] |
| 1.0.3.3.3.2 | Horn 1 Stripline Block | Complete | 293d | 01Aug08 30Sep09 | 01Apr09 01Mar10 | None | | None | | | |
| 1.0.3.3.3.2.1 | Analyze Horn 1 Chase Stripline for Higher Heat Loads (FEA) | Complete | 90d | 01Aug08 16Apr09 | 01Apr09 06Aug09 | None | | None | | 1.0.3.3.5.11[FS]; 2.10.9.7[FS+42d] | 1.0.3.3.3.2.2[FS]; 1.0.3.3.4.4[FS] |
| 1.0.3.3.3.2.2 | Quantify Air Convection Coefficients (Testing) | Complete | 120d | 11Dec08 17Jun09 | 07Aug09 02Feb10 | None | | None | | 1.0.3.3.3.2.1[FS] | 1.0.3.3.4.4[FS] |
| 1.0.3.3.3.2.3 | Design Forced Air Cooling for Horn 1 Chase Stripline | Complete | 30d | 01Jun09 30Sep09 | 19Jan10 01Mar10 | None | | None | | 1.0.3.3.4.4[FS] | 2.0.3.3.3.2.1[FS] |
| 1.0.3.3.3.3 | Radiant Heat Loads | Complete | 797d | 08Nov07 14Jan11 | 08Nov07 26Feb09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.3.3.3.3.1 | Analyze predicted block temperatures' effects on chase components | Complete | 30d | 08Nov07 30Nov07 | 08Nov07 21Dec07 | None | | None | | 1.0.3.3.5.11[FS] | 1.0.3.3.5.1[FS] |
| 1.0.3.3.3.3.2 | Design Additional Chase Temperature Monitoring Equipment | Complete | 19d | 07May10 14Jan11 | 02Feb09 26Feb09 | None | | None | | 1.0.3.3.5.11[FS]; 2.10.9.7[FS] | 2.0.3.3.3.3.1[FS] |
| 1.0.3.3.3.4 | NuMI - Review & Revise Shielding Assessment | Complete | 105d | 01Dec09 27Jul11 | 02Nov09 06Apr10 | None | | None | | 2.0.4.3.22[FS]; 2.10.9.8[FS] | 1.0.3.3.5.2[FS] |
| 1.0.3.3.4 | NuMI Target Hall Infrastructure Reviews | Complete | 439d | 01Dec08 30Aug10 | 30Apr09 07Jun10 | None | | None | | | |
| 1.0.3.3.4.2 | Target Hall Space Planning & Horn 2 Reconfiguration & Equip Initial Design Rev | Complete | 10d | 01Dec08 15Dec08 | 30Apr09 13May09 | None | | None | | 1.0.3.3.2.1.1[FS]; 1.0.3.3.2.2.4[FS]; 1.0.3.3.2.2.2[FS] | 1.0.3.3.1.1.1[FS]; 1.0.3.3.2.2.3[FS]; 1.0.3.3.2.1.2[FS]; 1.0.3.4.1.3.1[FS] |
| 1.0.3.3.4.4 | Target Hall Chase Cooling Iniital Design Review | Complete | 10d | 03Aug09 13Aug09 | 04Jan10 15Jan10 | None | | None | | 2.0.4.3.22[FS]; 1.0.3.2.1.2.1[FS]; 1.0.3.3.3.1.4[FS]; 1.0.3.3.3.2.2[FS]; 1.0.3.3.3.1.3[FS]; 1.0.3.3.3.2.1[FS]; 1.0.3.3.5.1[FS] | 1.0.3.3.3.2.3[FS]; 2.0.3.3.3.1.1[FS] |
| 1.0.3.3.4.5 | Final Target Hall Chase Cooling Design Review | Complete | 15d | 05Apr10 23Aug10 | 26Apr10 14May10 | None | | None | | 2.0.3.3.3.2.1[FS]; 1.0.3.3.5.3[FS] | 2.0.3.3.3.3.1[FS]; 2.0.3.3.3.1.2[FS]; 2.0.4.4.2.13[FS]; 1.0.3.3.4.6[FS] |
| 1.0.3.3.4.6 | Target Hall Space Planning & Horn 2 Reconfiguration & Equip Design Rev | Complete | 15d | 22Jul10 30Aug10 | 17May10 07Jun10 | None | | None | | 1.0.3.3.1.1.1[FS]; 2.0.3.3.2.2.1[FS]; 1.0.3.3.4.5[FS]; 2.0.4.4.2.39[FS] | 2.0.3.3.2.2.6[FS]; 2.0.3.3.2.2.2[FS]; 2.0.3.3.2.2.4[FS]; 2.0.3.3.1.1[FS] |
| 1.0.3.3.5 | NuMI Target Hall Infrastructure Milestones | Complete | 933d | 07Nov07 27Jul11 | 07Nov07 20Sep11 | None | | None | | | |
| 1.0.3.3.5.1 | NuMI Analyze Predicted Block Temperatures Effect on Chase Components Complete | Complete | 0 | 30Nov07 30Nov07 | 21Dec07 21Dec07 | None | | None | | 1.0.3.3.3.3.1[FS] | 1.0.3.3.4.4[FS]; 1.0.3.2.1.2.2[FS] |
| 1.0.3.3.5.2 | NuMI Shielding Assessment Complete | Complete | 0 | 27Jul11 27Jul11 | 20Sep11 20Sep11 | None | | None | | 1.0.3.3.3.4[FS] | 2.0.4.3.13[FS] |
| 1.0.3.3.5.3 | NuMI Target Chase Cooling Design Complete | Complete | 0 | 14Apr10 14Apr10 | 02Mar10 02Mar10 | None | | None | | 2.0.3.3.3.1.1[FS] | 1.0.3.3.4.5[FS] |
| 1.0.3.3.5.11 | NuMI FEM 3-D Thermal Analysis Complete | Complete | 0 | 07Nov07 07Nov07 | 07Nov07 07Nov07 | None | | None | | 1.0.3.3.3.1.2[FS] | 1.0.3.3.3.3.1[FS]; 1.0.3.3.3.3.2[FS]; 1.0.3.3.3.1.3[FS]; 1.0.3.3.3.2.1[FS] |
| 1.0.3.4 | NuMI Decay Pipe/Hadron Absorber/Utilities | Complete | 986d | 29Oct07 30Sep11 | 29Oct07 21Sep11 | None | | None | | | |
| 1.0.3.4.1 | NuMI RAW Systems | Complete | 653d | 02Mar09 30Sep11 | 02Feb09 12Aug11 | None | | None | | | |
| 1.0.3.4.1.1 | Target RAW | Complete | 191d | 03Jan11 30Sep11 | 22Dec10 12Aug11 | None | | None | | | |
| 1.0.3.4.1.1.1 | Design Target RAW Instrumentation Upgrade | Complete | 162d | 03Jan11 30Sep11 | 22Dec10 12Aug11 | None | | None | | 1.0.3.2.1.1.3[FS]; 1.0.3.4.4.2[FS] | 2.0.3.4.3.9[FS] |
| 1.0.3.4.1.2 | Horns RAW | Complete | 483d | 02Mar09 01Feb11 | 02Feb09 16Jun11 | None | | None | | | |
| 1.0.3.4.1.2.1 | Analyze horn 1 & horn 2 RAW system capacities | Complete | 130d | 02Mar09 01Dec10 | 02Feb09 04Aug09 | None | | None | | 2.10.9.7[FS] | 1.0.3.4.4.2[FS] |
| 1.0.3.4.1.2.2 | Design Horn 1 RAW Skid Upgrade | Complete | 122d | 03Jan11 01Feb11 | 22Dec10 16Jun11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.1.2.1[FS] |
| 1.0.3.4.1.2.3 | Design Horn 2 RAW Skid Upgrade | Complete | 122d | 03Jan11 01Feb11 | 22Dec10 16Jun11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.1.2.1[FS] |
| 1.0.3.4.1.3 | Horn 2 RAW Piping | Complete | 191d | 03Jan11 30Sep11 | 14May09 07Jan10 | None | | None | | | |
| 1.0.3.4.1.3.1 | Engineering & Design of RAW piping extension for Horn 2 Move | Complete | 60d | 03Jan11 30Sep11 | 14May09 07Jan10 | None | | None | | 1.0.3.3.4.2[FS] | 2.0.3.4.1.3.1[FS]; 2.0.3.4.3.9[FS] |
| 1.0.3.4.1.4 | Decay Pipe RAW | Complete | 191d | 03Jan11 30Sep11 | 22Dec10 16Jun11 | None | | None | | | |
| 1.0.3.4.1.4.1 | Design Decay Pipe US & DS RAW skid upgrade | Complete | 122d | 03Jan11 30Sep11 | 22Dec10 16Jun11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.1.4.1[FS] |
| 1.0.3.4.1.5 | Hadron Absorber RAW & Intermediate | Complete | 519d | 09Sep09 30Sep11 | 02Feb09 16Jun11 | None | | None | | | |
| 1.0.3.4.1.5.1 | Document Hadron Absorber for Full Beam Accident Condition | Complete | 7d | 08Oct09 15Sep11 | 02Feb09 10Feb09 | None | | None | | 2.10.9.7[FS] | 1.0.3.4.1.5.2[FS]; 1.0.3.4.4.1[FS] |
| 1.0.3.4.1.5.2 | Analyze Hadron Absorber for normal long term operation at 700 KW | Complete | 13d | 09Sep09 15Sep11 | 11Feb09 27Feb09 | None | | None | | 1.0.3.4.1.5.1[FS] | 1.0.3.4.4.1[FS] |
| 1.0.3.4.1.5.3 | Design Hadron Absorber skids upgrade | Complete | 122d | 03Jan11 30Sep11 | 22Dec10 16Jun11 | None | | None | | 1.0.3.4.4.2[FS]; 1.0.3.4.4.1[FS] | 2.0.3.4.1.5.1[FS] |
| 1.0.3.4.1.6 | NuMI RAW Exchange System Design | Complete | 295d | 02Aug10 30Sep11 | 02Aug10 01Apr11 | None | | None | | | |
| 1.0.3.4.1.6.1 | Perform NuMI target hall RAW-room radiation analysis | Complete | 40d | 02Aug10 30Aug10 | 16Aug10 11Oct10 | None | | None | | | 1.0.3.4.1.6.2[FS] |
| 1.0.3.4.1.6.2 | Perform NuMI absorber hall RAW-room radiation analysis | Complete | 10d | 02Aug10 30Aug10 | 12Oct10 25Oct10 | None | | None | | 1.0.3.4.1.6.1[FS] | 1.0.3.4.4.2[FS] |
| 1.0.3.4.1.6.3 | Initial design of NuMI target hall RAW-room DI bottle shielding | Complete | 100d | 02Aug10 03Jan11 | 02Aug10 22Dec10 | None | | None | | | 1.0.3.4.4.2[FS] |
| 1.0.3.4.1.6.4 | Design NuMI target hall RAW exchange | Complete | 40d | 03Jan11 30Sep11 | 24Jan11 18Mar11 | None | | None | | 1.0.3.4.4.2[FS] | 1.0.3.4.1.6.5[FS] |
| 1.0.3.4.1.6.5 | Design NuMI absorber hall RAW exchange | Complete | 10d | 03Jan11 30Sep11 | 21Mar11 01Apr11 | None | | None | | 1.0.3.4.1.6.4[FS] | 2.0.3.4.3.9[FS] |
| 1.0.3.4.1.6.6 | Final design of NuMI target hall RAW-room DI bottle shielding | Complete | 30d | 03Jan11 01Aug11 | 24Jan11 04Mar11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.3.9[FS] |
| 1.0.3.4.2 | NuMI Cooling Water (Non RAW) | Complete | 859d | 29Oct07 01Apr11 | 29Oct07 12May11 | None | | None | | | |
| 1.0.3.4.2.1 | LCW | Complete | 859d | 29Oct07 01Apr11 | 29Oct07 12May11 | None | | None | | | |
| 1.0.3.4.2.1.1 | Analyze LCW capacity-1 | Complete | 41d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.3.4.2.1.2 | Design LCW Upgrade | Complete | 98d | 03Jan11 01Apr11 | 22Dec10 12May11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.2.1.1[FS] |
| 1.0.3.4.2.1.3 | Analyze LCW capacity-2 | Complete | 319d | 02Mar09 15Dec10 | 02Feb09 06May10 | None | | None | | 2.10.9.7[FS] | 1.0.3.4.4.2[FS] |
| 1.0.3.4.2.2 | CUB | Complete | 859d | 29Oct07 01Apr11 | 29Oct07 12May11 | None | | None | | | |
| 1.0.3.4.2.2.1 | Analyze CUB chilled water capacity-1 | Complete | 41d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.3.4.2.2.3[FS] |
| 1.0.3.4.2.2.2 | Design CUB Chilled Water Upgrade | Complete | 98d | 10Feb11 01Apr11 | 22Dec10 12May11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.2.2.1[FS] |
| 1.0.3.4.2.2.3 | Analyze CUB chilled water capacity-2 | Complete | 319d | 02Mar09 15Dec10 | 02Feb09 06May10 | None | | None | | 1.0.3.4.2.2.1[FS]; 2.10.9.7[FS] | 1.0.3.4.4.2[FS] |
| 1.0.3.4.2.3 | NuMI Sump Cooling Water System Capacity | Complete | 691d | 29Oct07 30Jul10 | 29Oct07 01Jun10 | None | | None | | | |
| 1.0.3.4.2.3.1 | Analyze NuMI Sump Cooling Water System Capacity-1 | Complete | 41d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.3.4.2.3.3[FS] |
| 1.0.3.4.2.3.2 | Design NuMI Sump Cooling Water System Upgrade | Complete | 1d | 29Jul10 30Jul10 | 01Jun10 01Jun10 | None | | None | | 1.0.3.4.2.3.3[FS] | 2.0.3.4.2.3.1[FS] |
| 1.0.3.4.2.3.3 | Analyze NuMI Sump Cooling Water System Capacity-2 | Complete | 319d | 02Mar09 30Jul10 | 02Feb09 06May10 | None | | None | | 1.0.3.4.2.3.1[FS]; 2.10.9.7[FS] | 1.0.3.4.2.3.2[FS]; 2.0.3.4.2.3.2[FS]; 1.0.3.4.4.2[FS] |
| 1.0.3.4.2.4 | MI-65 Secondary Chilled water capacity | Complete | 859d | 29Oct07 01Apr11 | 29Oct07 12May11 | None | | None | | | |
| 1.0.3.4.2.4.1 | Analyze Secondary Chilled Water Capacity-1 | Complete | 41d | 29Oct07 28Dec07 | 29Oct07 28Dec07 | None | | None | | 2.10.9.4[FS] | 1.0.3.4.2.4.3[FS] |
| 1.0.3.4.2.4.2 | Design Secondary CW Skid Upgrade | Complete | 98d | 10Feb11 01Apr11 | 22Dec10 12May11 | None | | None | | 1.0.3.4.4.2[FS] | 2.0.3.4.2.4.1[FS] |
| 1.0.3.4.2.4.3 | Analyze Secondary Chilled Water Capacity-2 | Complete | 319d | 02Mar09 15Dec10 | 02Feb09 06May10 | None | | None | | 1.0.3.4.2.4.1[FS]; 2.10.9.7[FS] | 1.0.3.4.4.2[FS]; 2.0.3.4.3.9[FS] |
| 1.0.3.4.3 | NuMI Electrical Infrastructure | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.4.3.1 | Analyze & Design Elect Capacity Upgrades for 700kW, Downstream Systems (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.4.3.2 | Analyze & Design Elect Capacity Upgrades for 700kW, Upstream Systems (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 01Feb11 01Feb11 | None | | None | | | |
| 1.0.3.4.4 | NuMI Decay Pipe/Hadron Absorber/Utilities Reviews | Complete | 51d | 15Dec10 01Mar11 | 02Mar09 21Sep11 | None | | None | | | |
| 1.0.3.4.4.1 | Decay Pipe & Absorber Initial Design Review | Complete | 5d | 15Dec10 29Dec10 | 02Mar09 06Mar09 | None | | None | | 1.0.3.4.1.5.1[FS]; 1.0.3.4.1.5.2[FS] | 1.0.3.4.1.5.3[FS]; 1.0.3.4.4.2[FS] |
| 1.0.3.4.4.2 | NuMI Cooling Systems Initial Design Review | Complete | 10d | 15Dec10 29Dec10 | 07Jan11 21Jan11 | None | | None | | 1.0.3.4.1.6.3[FS]; 1.0.3.4.1.6.2[FS]; 1.0.3.4.2.3.3[FS]; 1.0.3.4.2.1.3[FS]; 1.0.3.4.2.2.3[FS]; 1.0.3.4.2.4.3[FS]; 1.0.3.4.1.2.1[FS]; 2.10.9.7[FS]; 1.0.3.4.4.1[FS] | 1.0.3.4.1.6.4[FS]; 1.0.3.4.1.6.6[FS]; 1.0.3.4.2.1.2[FS]; 1.0.3.4.2.2.2[FS]; 1.0.3.4.1.2.2[FS]; 1.0.3.4.1.2.3[FS]; 1.0.3.4.1.1.1[FS]; 1.0.3.4.2.4.2[FS]; 1.0.3.4.1.4.1[FS]; 1.0.3.4.1.5.3[FS] |
| 1.0.3.4.4.3 | NuMI Utilities Systems & RAW Design Review (OBSOLETE) | Complete | 1d | 01Mar11 01Mar11 | 21Sep11 21Sep11 | None | | None | | | |
| 1.0.4 | Beam Physics | Complete | 1016d | 02Apr07 15Apr11 | 01May07 29Jun11 | None | | None | | | |
| 1.0.4.1 | ANU Demands on Proton Plan | Complete | 644d | 01Aug08 25Feb11 | 02Feb09 24Aug10 | None | | None | | | |
| 1.0.4.1.1 | Evaluate Booster Performance for ANU | Complete | 110d | 04Mar10 25Feb11 | 22Mar10 24Aug10 | None | | None | | 2.10.10.4[FS+100d] | 1.0.4.4.1[FS] |
| 1.0.4.1.2 | Evaluate MI-8 Collimator Performance for ANU | Complete | 300d | 01Aug08 17Aug09 | 02Feb09 09Apr10 | None | | None | | 2.10.9.7[FS] | 1.0.4.4.1[FS]; 1.0.4.2.10[FS] |
| 1.0.4.1.3 | Evaluate Slip-Stacking Performance for ANU | Complete | 335d | 01Aug08 22Dec09 | 02Feb09 28May10 | None | | None | | 2.10.9.7[FS] | 1.0.4.2.10[FS]; 2.0.1.1.5.1[FS]; 1.0.4.4.1[FS] |
| 1.0.4.1.4 | Evaluate MI Collimator Performance for ANU | Complete | 300d | 01Aug08 21Oct09 | 02Feb09 09Apr10 | None | | None | | 2.10.9.7[FS] | 1.0.4.4.1[FS]; 1.0.4.2.10[FS] |
| 1.0.4.2 | Machine & Process Analysis | Complete | 955d | 01May07 18Feb11 | 01May07 27Sep10 | None | | None | | | |
| 1.0.4.2.1 | Slip-Stacking Simulation & Optimization for the Recycler-1 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 2.0.4.3.12[FS] | 1.0.4.2.11[FS] |
| 1.0.4.2.2 | Recycler & MI Beam Dynamics Simulation-1 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 2.0.4.3.12[FS] | 1.0.4.2.12[FS] |
| 1.0.4.2.3 | MI Machine Measurements-1 | Complete | 21d | 28Nov07 28Dec07 | 28Nov07 28Dec07 | None | | None | | 2.10.9.4[FS+20d] | 1.0.4.2.13[FS] |
| 1.0.4.2.4 | MI Loss Pattern Measurement-1 | Complete | 42d | 26Oct07 28Dec07 | 26Oct07 28Dec07 | None | | None | | 2.10.10.2[FS+8d] | 1.0.4.2.14[FS] |
| 1.0.4.2.5 | Recycler Machine Measurements-1 | Complete | 42d | 26Oct07 28Dec07 | 26Oct07 28Dec07 | None | | None | | 2.10.10.2[FS+8d] | 1.0.4.2.15[FS] |
| 1.0.4.2.6 | Electron Cloud Measurement in MI & RR-1 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 2.0.4.3.12[FS] | 1.0.4.2.16[FS] |
| 1.0.4.2.7 | Electron Cloud Simulation & Analysis for ANU-1 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 2.0.4.3.1[FS+102d] | 1.0.4.2.17[FS] |
| 1.0.4.2.8 | Transfer Line Simulation | Complete | 110d | 11Jan10 10May10 | 10Nov09 21Apr10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.1.2.1.1.1.2[FS]; 1.0.1.1.2.1.1.1.1[FS]; 1.0.4.2.12[FS] | 1.0.4.4.2[FS]; 1.0.4.2.10[FS] |
| 1.0.4.2.9 | Beam Cleaning Analysis | Complete | 55d | 15Jun09 20Nov09 | 04Jan10 22Mar10 | None | | None | | 2.0.4.3.22[FS]; 2.0.4.4.3.2[FS]; 1.0.1.2.1.1.9[FS]; 2.0.4.4.3.5[FS]; 2.10.9.7[FS] | 1.0.4.4.2[FS]; 1.0.4.2.10[FS] |
| 1.0.4.2.10 | Establish Detailed ANU Loss Patterns | Complete | 110d | 10May10 18Feb11 | 22Apr10 27Sep10 | None | | None | | 1.0.4.2.8[FS]; 1.0.4.2.9[FS]; 1.0.4.1.3[FS]; 1.0.4.1.2[FS]; 1.0.4.1.4[FS] | 1.0.4.4.2[FS] |
| 1.0.4.2.11 | Slip-Stacking Simulation & Optimization for the Recycler-2 | Complete | 255d | 01Aug08 18Dec09 | 02Feb09 05Feb10 | None | | None | | 2.10.9.7[FS]; 1.0.4.2.1[FS] | |
| 1.0.4.2.12 | Recycler & MI Beam Dynamics Simulation-2 | Complete | 101d | 27Oct08 11Nov09 | 02Feb09 23Jun09 | None | | None | | 2.10.9.7[FS]; 1.0.4.2.2[FS] | 1.0.4.4.2[FS]; 1.0.4.2.8[FS] |
| 1.0.4.2.13 | MI Machine Measurements-2 | Complete | 263d | 01Aug08 27Oct09 | 02Feb09 17Feb10 | None | | None | | 2.10.9.7[FS]; 1.0.4.2.3[FS] | |
| 1.0.4.2.14 | MI Loss Pattern Measurement-2 | Complete | 240d | 01Aug08 27Oct09 | 02Feb09 14Jan10 | None | | None | | 1.0.4.2.4[FS]; 2.10.9.7[FS] | 1.0.4.4.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0.4.2.15 | Recycler Machine Measurements-2 | Complete | 267d | 01Dec08 27Sep10 | 02Feb09 23Feb10 | None | | None | | 1.0.4.2.5[FS]; 2.10.9.7[FS] | 1.0.4.4.2[FS] |
| 1.0.4.2.16 | Electron Cloud Measurement in MI & RR-2 | Complete | 130d | 01Aug08 19Aug09 | 02Feb09 04Aug09 | None | | None | | 1.0.4.2.6[FS]; 2.10.9.7[FS] | 1.0.4.4.2[FS] |
| 1.0.4.2.17 | Electron Cloud Simulation & Analysis for ANU-2 | Complete | 130d | 01Aug08 19Oct09 | 02Feb09 04Aug09 | None | | None | | 1.0.4.2.7[FS]; 2.10.9.7[FS] | 1.0.4.4.2[FS] |
| 1.0.4.3 | Proton Plan Projections | Complete | 1016d | 02Apr07 15Apr11 | 01May07 29Jun11 | None | | None | | | |
| 1.0.4.3.2 | Develop Beam Performance Metrics | Complete | 100d | 01May07 20Sep07 | 01May07 20Sep07 | None | | None | | 1.0.4.3.1[FS] | 1.0.4.3.3[FS] |
| 1.0.4.3.3 | Maintain Measurements & Predictions of Performance-1 | Complete | 67d | 21Sep07 28Dec07 | 21Sep07 28Dec07 | None | | None | | 1.0.4.3.2[FS] | 1.0.4.3.4[FS] |
| 1.0.4.3.4 | Maintain Measurements & Predictions of Performance-2 | Complete | 608d | 01Aug08 15Apr11 | 02Feb09 29Jun11 | None | | None | | 1.0.4.3.3[FS]; 2.10.9.7[FS] | 2.0.4.3.17[FS] |
| 1.0.4.4 | Beam Physics Milestones | Complete | 6d | 18Feb11 25Feb11 | 24Aug10 27Sep10 | None | | None | | | |
| 1.0.4.4.1 | Estimate Limits of Proton Plan Performance | Complete | 0 | 25Feb11 25Feb11 | 24Aug10 24Aug10 | None | | None | | 1.0.4.1.1[FS]; 1.0.4.1.2[FS]; 1.0.4.1.4[FS]; 1.0.4.1.3[FS] | 2.0.4.3.17[FS] |
| 1.0.4.4.2 | Beam Physics Preparative Analysis Complete | Complete | 0 | 18Feb11 18Feb11 | 27Sep10 27Sep10 | None | | None | | 1.0.4.2.8[FS]; 1.0.4.2.9[FS]; 1.0.4.2.15[FS]; 1.0.4.2.12[FS]; 1.0.4.2.17[FS]; 1.0.4.2.16[FS]; 1.0.4.2.14[FS]; 1.0.4.2.10[FS] | 2.0.4.3.17[FS] |
| 1.0.5 | Project Management | Complete | 208d | 01Dec06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.0.5.1 | Fermi Management & Administration | Complete | 208d | 01Dec06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.0.5.1.2 | Management & Administration - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.0.5.1.1[FS] | 2.0.4.2.1[FS] |
| 1.1 | Site and Building | Complete | 1839d | 03Oct05 31Jan13 | 01May07 31Jan13 | None | | None | | | |
| 1.1.1 | Site Conditions Investigation | Complete | 433d | 03Apr06 19Dec07 | 11May07 16Jan08 | None | | None | | | |
| 1.1.1.2 | Subsurface Investigation | Complete | 330d | 03Apr06 24Jul07 | 24Jul07 24Jul07 | None | | None | | | |
| 1.1.1.2.11 | Subsurface investigation completed | Complete | 0 | 24Jul07 24Jul07 | 24Jul07 24Jul07 | None | | None | | 1.1.1.2.10[FS]; 1.1.1.2.9[FS] | 1.1.2.2.12.15[FS] |
| 1.1.1.4 | Revise Ash River Environmental Assessment Worksheet | Complete | 154d | 11May07 19Dec07 | 11May07 16Jan08 | None | | None | | | |
| 1.1.1.4.1 | Prepare request for proposal | Complete | 4d | 11May07 16May07 | 11May07 16May07 | None | | None | | 1.9.4.2[FS] | 1.1.1.4.2[FS] |
| 1.1.1.4.2 | Issue request for proposal | Complete | 1d | 17May07 17May07 | 17May07 17May07 | None | | None | | 1.1.1.4.1[FS] | 1.1.1.4.3[FS+10d] |
| 1.1.1.4.3 | Review received proposals | Complete | 6d | 04Jun07 11Jun07 | 04Jun07 11Jun07 | None | | None | | 1.1.1.4.2[FS+10d] | 1.1.1.4.4[FS] |
| 1.1.1.4.4 | Gather data | Complete | 20d | 12Jun07 10Jul07 | 12Jun07 10Jul07 | None | | None | | 1.1.1.4.3[FS]; 1.1.1.3.8[FS]; 1.1.1.1.10[FS] | 1.1.1.4.5[FS] |
| 1.1.1.4.5 | Revise existing EAW | Complete | 15d | 11Jul07 31Jul07 | 11Jul07 31Jul07 | None | | None | | 1.1.1.4.4[FS] | 1.1.1.4.6[FS] |
| 1.1.1.4.6 | NOvA project review | Complete | 20d | 01Aug07 06Aug07 | 01Aug07 28Aug07 | None | | None | | 1.1.1.4.5[FS] | 1.1.1.4.7[FS] |
| 1.1.1.4.7 | Finalize report | Complete | 10d | 07Aug07 28Aug07 | 29Aug07 12Sep07 | None | | None | | 1.1.1.4.6[FS] | 1.1.1.4.8[FS] |
| 1.1.1.4.8 | EAW revisions completed | Complete | 0 | 28Aug07 28Aug07 | 12Sep07 12Sep07 | None | | None | | 1.1.1.4.7[FS] | 1.1.1.4.9[FS] |
| 1.1.1.4.9 | Print, assemble, and distrubute EAW documents | Complete | 5d | 29Aug07 06Sep07 | 13Sep07 19Sep07 | None | | None | | 1.1.1.4.8[FS] | 1.1.1.4.10[FS] |
| 1.1.1.4.10 | Submit EAW for publication in EQB monitor | Complete | 1d | 07Sep07 07Sep07 | 20Sep07 20Sep07 | None | | None | | 1.1.1.4.9[FS] | 1.1.1.4.11[FS] |
| 1.1.1.4.11 | 30-day public comment period | Complete | 21d | 10Sep07 10Oct07 | 21Sep07 19Oct07 | None | | None | | 1.1.1.4.10[FS] | 1.1.1.4.12[FS+20d] |
| 1.1.1.4.12 | Finding of facts issued by RGU | Complete | 1d | 18Nov07 19Nov07 | 19Nov07 19Nov07 | None | | None | | 1.1.1.4.11[FS+20d] | 1.1.1.4.13[FS] |
| 1.1.1.4.13 | 30-day judicial appeal period | Complete | 21d | 20Nov07 19Dec07 | 20Nov07 20Dec07 | None | | None | | 1.1.1.4.12[FS] | 1.1.1.4.14[FS+14d] |
| 1.1.1.4.14 | Publish notice of decision in EQB Monitor | Complete | 1d | 19Dec07 19Dec07 | 16Jan08 16Jan08 | None | | None | | 1.1.1.4.13[FS+14d] | 1.1.1.4.15[FS] |
| 1.1.1.4.15 | EAW process completed | Complete | 0 | 19Dec07 19Dec07 | 16Jan08 16Jan08 | None | | None | | 1.1.1.4.14[FS] | 2.1.4.1.2[FS]; 2.1.4.1.1[FS]; 2.1.1.4.1[FS] |
| 1.1.2 | Title 1 Preparation | Complete | 380d | 03Apr06 03Oct07 | 01May07 29Oct07 | None | | None | | | |
| 1.1.2.2 | Building Design Modifications | Complete | 243d | 16Oct06 03Oct07 | 01May07 29Oct07 | None | | None | | | |
| 1.1.2.2.12 | Document Revisions | Complete | 161d | 16Feb07 03Oct07 | 01May07 29Oct07 | None | | None | | | |
| 1.1.2.2.12.7 | Resume building design modifications | Complete | 0 | 01May07 01May07 | 01May07 01May07 | None | | None | | 1.1.2.2.12.6[FS] | 1.1.2.2.12.11[FS]; 1.1.2.2.12.12[FS]; 1.1.2.2.12.8[FS]; 1.1.2.2.12.10[FS]; 1.1.4.1.3.1.1[FS] |
| 1.1.2.2.12.8 | Kickoff meeting | Complete | 1d | 01May07 01May07 | 01May07 01May07 | None | | None | | 1.1.2.2.12.7[FS] | 1.1.2.2.12.9[FS] |
| 1.1.2.2.12.9 | Review background information | Complete | 15d | 02May07 22May07 | 02May07 22May07 | None | | None | | 1.1.2.2.12.8[FS] | 1.1.2.2.12.10[SS] |
| 1.1.2.2.12.10 | Prepare drawings | Complete | 25d | 02May07 06Jun07 | 02May07 06Jun07 | None | | None | | 1.1.2.2.12.9[SS]; 1.1.2.2.12.7[FS] | 1.1.2.2.12.13[FS] |
| 1.1.2.2.12.11 | Prepare specifications | Complete | 10d | 01May07 14May07 | 01May07 14May07 | None | | None | | 1.1.2.2.12.7[FS] | 1.1.2.2.12.13[FS] |
| 1.1.2.2.12.12 | Prepare cost estimate | Complete | 10d | 01May07 14May07 | 01May07 14May07 | None | | None | | 1.1.2.2.12.7[FS] | 1.1.2.2.12.13[FS] |
| 1.1.2.2.12.13 | Assemble, print, and distribute documents | Complete | 2d | 07Jun07 08Jun07 | 07Jun07 08Jun07 | None | | None | | 1.1.2.2.12.12[FS]; 1.1.2.2.12.10[FS]; 1.1.2.2.12.11[FS] | 1.1.2.2.12.14[FS] |
| 1.1.2.2.12.14 | Comment and compliance review | Complete | 10d | 11Jun07 22Jun07 | 11Jun07 22Jun07 | None | | None | | 1.1.2.2.12.13[FS] | 1.1.2.2.12.16[FS]; 1.1.2.2.12.17[FS]; 1.1.2.2.12.15[FS] |
| 1.1.2.2.12.15 | Revise drawings | Complete | 30d | 25Jul07 17Aug07 | 25Jul07 05Sep07 | None | | None | | 1.1.2.2.12.14[FS]; 1.1.1.2.11[FS] | 1.1.2.2.12.18[FS]; 1.1.4.1.3.1.6[FS]; 1.1.4.1.3.2.15[FS]; 1.1.4.3.1[FS] |
| 1.1.2.2.12.16 | Revise specifications | Complete | 30d | 25Jun07 17Aug07 | 25Jun07 06Aug07 | None | | None | | 1.1.2.2.12.14[FS] | 1.1.2.2.12.18[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1.2.2.12.17 | Revise cost estimate | Complete | 30d | 25Jun07 17Aug07 | 25Jun07 06Aug07 | None | | None | | 1.1.2.2.12.14[FS] | 1.1.2.2.12.18[FS] |
| 1.1.2.2.12.18 | Assemble, print and distribute documents | Complete | 5d | 18Aug07 23Aug07 | 06Sep07 12Sep07 | None | | None | | 1.1.2.2.12.15[FS]; 1.1.2.2.12.16[FS]; 1.1.2.2.12.17[FS] | 1.1.2.2.12.19[FS] |
| 1.1.2.2.12.19 | Quality assurance review | Complete | 10d | 24Aug07 07Sep07 | 13Sep07 26Sep07 | None | | None | | 1.1.2.2.12.18[FS] | 1.1.2.2.12.20[FS] |
| 1.1.2.2.12.20 | Finalize documents | Complete | 20d | 10Sep07 28Sep07 | 27Sep07 24Oct07 | None | | None | | 1.1.2.2.12.19[FS] | 1.1.2.2.12.21[FS] |
| 1.1.2.2.12.21 | Assemble, print and distribute documents | Complete | 3d | 01Oct07 03Oct07 | 25Oct07 29Oct07 | None | | None | | 1.1.2.2.12.20[FS] | 1.1.2.2.13[FS] |
| 1.1.2.2.13 | Building design modifications completed | Complete | 0 | 03Oct07 03Oct07 | 29Oct07 29Oct07 | None | | None | | 1.1.2.2.12.21[FS] | 1.1.2.3[FS] |
| 1.1.2.3 | Title 1 preparation complete | Complete | 0 | 03Oct07 03Oct07 | 29Oct07 29Oct07 | None | | None | | 1.1.2.1.21[FS]; 1.1.2.2.13[FS] | 2.1.2.1.1[FS] |
| 1.1.4 | Management - R&D Phase | Complete | 962d | 03Oct05 31Jul09 | 01May07 30Jan09 | None | | None | | | |
| 1.1.4.1 | Independent Cost Estimate Review | Complete | 423d | 01Mar06 31Oct07 | 01May07 10Oct07 | None | | None | | | |
| 1.1.4.1.3 | Cost Estimate and Schedule Revisions | Complete | 165d | 12Mar07 31Oct07 | 01May07 10Oct07 | None | | None | | | |
| 1.1.4.1.3.1 | Burns and McDonnell | Complete | 129d | 01May07 31Oct07 | 01May07 10Oct07 | None | | None | | | |
| 1.1.4.1.3.1.1 | Kickoff meeting | Complete | 1d | 01May07 01May07 | 01May07 01May07 | None | | None | | 1.1.2.2.12.7[FS] | 1.1.4.1.3.1.2[FS]; 1.1.4.1.3.1.3[FS] |
| 1.1.4.1.3.1.2 | Revise cost estimate | Complete | 25d | 02May07 06Jun07 | 02May07 06Jun07 | None | | None | | 1.1.4.1.3.1.1[FS] | 1.1.4.1.3.1.4[FS] |
| 1.1.4.1.3.1.3 | Update schedule | Complete | 20d | 02May07 30May07 | 02May07 30May07 | None | | None | | 1.1.4.1.3.1.1[FS] | 1.1.4.1.3.1.4[FS] |
| 1.1.4.1.3.1.4 | Internal project review | Complete | 10d | 07Jun07 20Jun07 | 07Jun07 20Jun07 | None | | None | | 1.1.4.1.3.1.2[FS]; 1.1.4.1.3.1.3[FS] | 1.1.4.1.3.1.5[FS] |
| 1.1.4.1.3.1.5 | Revision of 18Apr07 design completed | Complete | 0 | 20Jun07 20Jun07 | 20Jun07 20Jun07 | None | | None | | 1.1.4.1.3.1.4[FS] | 1.1.4.1.3.1.6[FS] |
| 1.1.4.1.3.1.6 | Revise cost estimate based on 17Aug07 design | Complete | 55d | 20Aug07 22Oct07 | 06Sep07 19Sep07 | None | | None | | 1.1.2.2.12.15[FS]; 1.1.4.1.3.1.5[FS] | 1.1.4.1.3.1.7[SS] |
| 1.1.4.1.3.1.7 | Update schedule based on 17Aug07 design | Complete | 55d | 20Aug07 22Oct07 | 20Sep07 03Oct07 | None | | None | | 1.1.4.1.3.1.6[SS] | 1.1.4.1.3.1.8[FS] |
| 1.1.4.1.3.1.8 | Internal project review | Complete | 5d | 22Oct07 31Oct07 | 04Oct07 10Oct07 | None | | None | | 1.1.4.1.3.1.7[FS] | 1.1.4.1.3.1.9[FS] |
| 1.1.4.1.3.1.9 | Revision of 17Aug07 design completed | Complete | 0 | 31Oct07 31Oct07 | 10Oct07 10Oct07 | None | | None | | 1.1.4.1.3.1.8[FS] | 2.1.2.1.2[FS] |
| 1.1.4.1.3.2 | J.E.Dunn-North Central | Complete | 161d | 12Mar07 25Oct07 | 01May07 10Oct07 | None | | None | | | |
| 1.1.4.1.3.2.10 | Develop draft estimate | Complete | 25d | 01May07 05Jun07 | 01May07 05Jun07 | None | | None | | 1.1.4.1.3.2.9[FS] | 1.1.4.1.3.2.12[FS] |
| 1.1.4.1.3.2.11 | Develop draft schedule | Complete | 20d | 01May07 29May07 | 01May07 29May07 | None | | None | | 1.1.4.1.3.2.9[FS] | 1.1.4.1.3.2.12[FS] |
| 1.1.4.1.3.2.12 | Project review of draft report | Complete | 5d | 06Jun07 12Jun07 | 06Jun07 12Jun07 | None | | None | | 1.1.4.1.3.2.11[FS]; 1.1.4.1.3.2.10[FS] | 1.1.4.1.3.2.13[FS] |
| 1.1.4.1.3.2.13 | Finalize documents | Complete | 5d | 13Jun07 19Jun07 | 13Jun07 19Jun07 | None | | None | | 1.1.4.1.3.2.12[FS] | 1.1.4.1.3.2.14[FS] |
| 1.1.4.1.3.2.14 | Estimate of 18Apr07 design completed | Complete | 0 | 19Jun07 19Jun07 | 19Jun07 19Jun07 | None | | None | | 1.1.4.1.3.2.13[FS] | 1.1.4.1.3.2.15[FS] |
| 1.1.4.1.3.2.15 | Revise cost estimate based on 17Aug07 design | Complete | 43d | 20Aug07 19Oct07 | 06Sep07 19Sep07 | None | | None | | 1.1.2.2.12.15[FS]; 1.1.4.1.3.2.14[FS] | 1.1.4.1.3.2.16[SS] |
| 1.1.4.1.3.2.16 | Update schedule based on 17Aug07 design | Complete | 43d | 20Aug07 19Oct07 | 20Sep07 03Oct07 | None | | None | | 1.1.4.1.3.2.15[SS] | 1.1.4.1.3.2.17[FS] |
| 1.1.4.1.3.2.17 | Internal project review | Complete | 5d | 22Oct07 25Oct07 | 04Oct07 10Oct07 | None | | None | | 1.1.4.1.3.2.16[FS] | 1.1.4.1.3.2.18[FS] |
| 1.1.4.1.3.2.18 | Revision of 17Aug07 design completed | Complete | 0 | 25Oct07 25Oct07 | 10Oct07 10Oct07 | None | | None | | 1.1.4.1.3.2.17[FS] | 2.1.2.1.2[FS] |
| 1.1.4.1.3.3 | Constructive Ideas | Complete | 71d | 12Mar07 19Jun07 | 01May07 19Jun07 | None | | None | | | |
| 1.1.4.1.3.3.10 | Develop draft estimate | Complete | 25d | 01May07 05Jun07 | 01May07 05Jun07 | None | | None | | 1.1.4.1.3.3.9[FS] | 1.1.4.1.3.3.12[FS] |
| 1.1.4.1.3.3.11 | Develop draft schedule | Complete | 20d | 01May07 29May07 | 01May07 29May07 | None | | None | | 1.1.4.1.3.3.9[FS] | 1.1.4.1.3.3.12[FS] |
| 1.1.4.1.3.3.12 | Project review of draft report | Complete | 5d | 06Jun07 12Jun07 | 06Jun07 12Jun07 | None | | None | | 1.1.4.1.3.3.10[FS]; 1.1.4.1.3.3.11[FS] | 1.1.4.1.3.3.13[FS] |
| 1.1.4.1.3.3.13 | Finalize documents | Complete | 5d | 13Jun07 19Jun07 | 13Jun07 19Jun07 | None | | None | | 1.1.4.1.3.3.12[FS] | 1.1.4.1.3.3.14[FS] |
| 1.1.4.1.3.3.14 | Constructive Ideas cost estimate revision completed | Complete | 0 | 19Jun07 19Jun07 | 19Jun07 19Jun07 | None | | None | | 1.1.4.1.3.3.13[FS] | 2.1.2.1.2[FS] |
| 1.1.4.3 | Rock Capacity Study | Complete | 243d | 20Jun07 06Jun08 | 06Sep07 04Jan08 | None | | None | | | |
| 1.1.4.3.1 | Review background information | Complete | 5d | 20Jun07 20Jul07 | 06Sep07 12Sep07 | None | | None | | 1.1.1.2.9[FS]; 1.1.2.2.12.15[FS] | 1.1.4.3.2[FS] |
| 1.1.4.3.2 | Perform site visit | Complete | 3d | 26Jun07 28Jun07 | 13Sep07 17Sep07 | None | | None | | 1.1.4.3.1[FS] | 1.1.4.3.3[FS] |
| 1.1.4.3.3 | Prepare preliminary report | Complete | 15d | 29Jun07 16Aug07 | 18Sep07 08Oct07 | None | | None | | 1.1.4.3.2[FS] | 1.1.4.3.4[FS] |
| 1.1.4.3.4 | Perform internal review of report | Complete | 5d | 17Aug07 17Sep07 | 09Oct07 15Oct07 | None | | None | | 1.1.4.3.3[FS] | 1.1.4.3.5[FS] |
| 1.1.4.3.5 | Finalize report | Complete | 15d | 01Oct07 06Jun08 | 16Oct07 05Nov07 | None | | None | | 1.1.4.3.4[FS] | 1.1.4.3.6[FS] |
| 1.1.4.3.6 | Rock capacity study completed | Complete | 0 | 06Jun08 06Jun08 | 04Jan08 04Jan08 | None | | None | | 1.1.4.3.5[FS] | 2.1.1.1.8[FS] |
| 1.1.4.5 | Risk Management Assessment | Complete | 324d | 01May06 13Aug07 | 01May07 01Aug07 | None | | None | | | |
| 1.1.4.5.6 | Present preliminary results | Complete | 15d | 01May07 21May07 | 01May07 21May07 | None | | None | | 1.1.4.5.5[FS] | 1.1.4.5.7[FS] |
| 1.1.4.5.7 | Finalize analysis | Complete | 30d | 22May07 03Jul07 | 22May07 03Jul07 | None | | None | | 1.1.4.5.6[FS] | 1.1.4.5.8[FS] |
| 1.1.4.5.8 | Finalize risk assessment forms | Complete | 20d | 05Jul07 13Aug07 | 05Jul07 01Aug07 | None | | None | | 1.1.4.5.7[FS] | 1.1.4.5.9[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1.4.5.9 | Initial risk management assessment completed | Complete | 0 | 13Aug07 13Aug07 | 01Aug07 01Aug07 | None | | None | | 1.1.4.5.8[FS] | 2.1.2.1.8[FS]; 2.1.1.1.8[FS] |
| 1.1.4.6 | Post CD-1 Site and Building R&D Cost Account | Complete | 105d | 01May07 31Jul09 | 01May07 27Sep07 | None | | None | | | |
| 1.1.4.7 | Advanced Technical Design - Far Detector Building | Complete | 100d | 10Jul08 01Dec08 | 02Sep08 30Jan09 | None | | None | | | |
| 1.1.4.7.1 | Prepare drawings | Complete | 48d | 10Jul08 16Sep08 | 02Sep08 24Nov08 | None | | None | | 2.1.2.1.7[FS]; 2.1.2.1.8[FS] | 1.1.4.7.4[FS] |
| 1.1.4.7.2 | Prepare specifications | Complete | 48d | 10Jul08 16Sep08 | 02Sep08 29Sep08 | None | | None | | 2.1.2.1.8[FS] | 1.1.4.7.4[FS] |
| 1.1.4.7.3 | Prepare cost estimate/schedule | Complete | 48d | 10Jul08 16Sep08 | 02Sep08 29Sep08 | None | | None | | 2.1.2.1.8[FS] | 1.1.4.7.4[FS] |
| 1.1.4.7.4 | Assemble, print, and distribute documents | Complete | 2d | 16Sep08 17Sep08 | 25Nov08 26Nov08 | None | | None | | 1.1.4.7.1[FS]; 1.1.4.7.2[FS]; 1.1.4.7.3[FS] | 1.1.4.7.5[FS] |
| 1.1.4.7.5 | Comment and compliance review | Complete | 10d | 17Sep08 26Sep08 | 01Dec08 12Dec08 | None | | None | | 1.1.4.7.4[FS] | 2.1.2.1.14[FS]; 2.1.2.1.15[FS]; 1.1.4.7.6[FS]; 2.1.2.1.16[FS] |
| 1.1.4.7.6 | Revise drawings | Complete | 30d | 01Oct08 01Dec08 | 15Dec08 30Jan09 | None | | None | | 1.1.4.7.5[FS] | 2.1.2.1.17[FS] |
| 1.1.5 | Near Detector Surface Building | Complete | 856d | 01Sep09 31Jan13 | 01Sep09 31Jan13 | None | | None | | | |
| 1.1.5.1 | Final Design Phase | Complete | 110d | 01Sep09 11Feb10 | 01Sep09 10Mar10 | None | | None | | | |
| 1.1.5.1.1 | ND Surface Building - Final Design | Complete | 110d | 01Sep09 11Feb10 | 01Sep09 16Dec09 | None | | None | | | |
| 1.1.5.1.1.1 | Prepare RFP memo | Complete | 1d | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | | 1.1.5.1.1.2[FS]; 1.1.5.4.1[SS] |
| 1.1.5.1.1.2 | Prepare RFP and issue to an AE firm | Complete | 3d | 02Sep09 02Sep09 | 02Sep09 04Sep09 | None | | None | | 1.1.5.1.1.1[FS] | 1.1.5.1.1.3[FS] |
| 1.1.5.1.1.3 | Receive proposal | Complete | 1d | 03Sep09 03Sep09 | 08Sep09 08Sep09 | None | | None | | 1.1.5.1.1.2[FS] | 1.1.5.1.1.4[FS] |
| 1.1.5.1.1.4 | Review received proposal | Complete | 2d | 04Sep09 07Sep09 | 09Sep09 10Sep09 | None | | None | | 1.1.5.1.1.3[FS] | 1.1.5.1.1.5[FS] |
| 1.1.5.1.1.5 | Prepare requisition | Complete | 3d | 07Sep09 07Sep09 | 11Sep09 15Sep09 | None | | None | | 1.1.5.1.1.4[FS] | 1.1.5.1.1.6[FS] |
| 1.1.5.1.1.6 | Circulate requisition for approval | Complete | 1d | 08Sep09 09Sep09 | 16Sep09 16Sep09 | None | | None | | 1.1.5.1.1.5[FS] | 1.1.5.1.1.7[FS] |
| 1.1.5.1.1.7 | Prepare purchase order | Complete | 2d | 09Sep09 09Sep09 | 17Sep09 18Sep09 | None | | None | | 1.1.5.1.1.6[FS] | 1.1.5.1.1.8[FS] |
| 1.1.5.1.1.8 | PO issued for final design of Near Detector Surface Building | Complete | 0 | 10Sep09 10Sep09 | 18Sep09 18Sep09 | None | | None | | 1.1.5.1.1.7[FS] | 1.1.5.1.1.9[FS+5d] |
| 1.1.5.1.1.9 | Hold kickoff meeting | Complete | 1d | 18Sep09 18Sep09 | 28Sep09 28Sep09 | None | | None | | 1.1.5.1.1.8[FS+5d] | 1.1.5.1.1.10[FS] |
| 1.1.5.1.1.10 | Review background information | Complete | 2d | 21Sep09 23Sep09 | 29Sep09 30Sep09 | None | | None | | 1.1.5.1.1.9[FS] | 1.1.5.1.1.11[FS]; 1.1.5.1.1.12[FS] |
| 1.1.5.1.1.11 | Prepare drawings | Complete | 15d | 21Sep09 16Oct09 | 01Oct09 21Oct09 | None | | None | | 1.1.5.1.1.10[FS] | 1.1.5.1.1.12[SS]; 1.1.5.1.1.13[FS] |
| 1.1.5.1.1.12 | Prepare specifications | Complete | 15d | 21Sep09 16Oct09 | 01Oct09 21Oct09 | None | | None | | 1.1.5.1.1.11[SS]; 1.1.5.1.1.10[FS] | 1.1.5.1.1.13[FS] |
| 1.1.5.1.1.13 | Assemble/print/distribute documents for review | Complete | 1d | 19Oct09 19Oct09 | 22Oct09 22Oct09 | None | | None | | 1.1.5.1.1.12[FS]; 1.1.5.1.1.11[FS] | 1.1.5.1.1.14[FS] |
| 1.1.5.1.1.14 | Comment and compliance review | Complete | 10d | 19Oct09 30Oct09 | 23Oct09 05Nov09 | None | | None | | 1.1.5.1.1.13[FS] | 1.1.5.1.2.1[FS]; 1.1.5.1.1.15[FS]; 1.1.5.1.1.17[FS]; 1.1.5.1.1.16[FS] |
| 1.1.5.1.1.15 | Prepare drawings -outfitting | Complete | 10d | 19Nov09 30Nov09 | 06Nov09 19Nov09 | None | | None | | 1.1.5.1.1.14[FS] | 1.1.5.1.1.16[SS] |
| 1.1.5.1.1.16 | Prepare specifications - outfitting | Complete | 10d | 19Nov09 30Nov09 | 06Nov09 19Nov09 | None | | None | | 1.1.5.1.1.15[SS]; 1.1.5.1.1.14[FS] | 1.1.5.1.1.17[SS] |
| 1.1.5.1.1.17 | Prepare cost estimate and schedule - outfitting | Complete | 10d | 19Nov09 30Nov09 | 06Nov09 19Nov09 | None | | None | | 1.1.5.1.1.14[FS]; 1.1.5.1.1.16[SS] | 1.1.5.1.1.18[FS] |
| 1.1.5.1.1.18 | Assemble/print/distribute documents for review | Complete | 1d | 11Nov09 03Dec09 | 20Nov09 20Nov09 | None | | None | | 1.1.5.1.1.17[FS] | 1.1.5.1.1.19[FS] |
| 1.1.5.1.1.19 | Comment and Compliance review - outfitting | Complete | 10d | 04Dec09 18Dec09 | 23Nov09 01Dec09 | None | | None | | 1.1.5.1.1.18[FS] | 1.1.5.1.1.20[FS]; 1.1.5.2.1.1[SS] |
| 1.1.5.1.1.20 | Finalize documents | Complete | 10d | 21Dec09 11Jan10 | 02Dec09 15Dec09 | None | | None | | 1.1.5.1.1.19[FS] | 1.1.5.1.1.21[FS] |
| 1.1.5.1.1.21 | Assemble/print/distribute final documents | Complete | 1d | 11Feb10 11Feb10 | 16Dec09 16Dec09 | None | | None | | 1.1.5.1.1.20[FS] | 1.1.5.1.1.22[FS] |
| 1.1.5.1.1.22 | Final design completed - Near Detector Surface Building | Complete | 0 | 11Feb10 11Feb10 | 16Dec09 16Dec09 | None | | None | | 1.1.5.1.1.21[FS] | 1.1.5.2.1.4[FS] |
| 1.1.5.1.2 | Access Platforms - Final Design | Complete | 89d | 01Oct09 11Feb10 | 06Nov09 10Mar10 | None | | None | | | |
| 1.1.5.1.2.1 | Prepare RFP memo | Complete | 1d | 01Oct09 01Oct09 | 06Nov09 06Nov09 | None | | None | | 1.1.5.1.1.14[FS] | 1.1.5.1.2.2[FS] |
| 1.1.5.1.2.2 | Prepare RFP and issue to an AE firm | Complete | 3d | 02Oct09 02Oct09 | 09Nov09 11Nov09 | None | | None | | 1.1.5.1.2.1[FS] | 1.1.5.1.2.3[FS+10d] |
| 1.1.5.1.2.3 | Receive proposal | Complete | 1d | 05Oct09 05Oct09 | 30Nov09 30Nov09 | None | | None | | 1.1.5.1.2.2[FS+10d] | 1.1.5.1.2.4[FS] |
| 1.1.5.1.2.4 | Review received proposal | Complete | 2d | 06Oct09 20Oct09 | 01Dec09 02Dec09 | None | | None | | 1.1.5.1.2.3[FS] | 1.1.5.1.2.5[FS] |
| 1.1.5.1.2.5 | Prepare requisition | Complete | 1d | 23Oct09 23Oct09 | 03Dec09 03Dec09 | None | | None | | 1.1.5.1.2.4[FS] | 1.1.5.1.2.6[FS] |
| 1.1.5.1.2.6 | Circulate requisition for approval | Complete | 10d | 26Oct09 27Oct09 | 04Dec09 17Dec09 | None | | None | | 1.1.5.1.2.5[FS] | 1.1.5.1.2.7[FS] |
| 1.1.5.1.2.7 | Prepare purchase order | Complete | 3d | 28Oct09 11Nov09 | 18Dec09 22Dec09 | None | | None | | 1.1.5.1.2.6[FS] | 1.1.5.1.2.8[FS] |
| 1.1.5.1.2.8 | PO issued for final design of Access Platforms | Complete | 0 | 12Nov09 12Nov09 | 22Dec09 22Dec09 | None | | None | | 1.1.5.1.2.7[FS] | 1.1.5.1.2.9[FS+5d] |
| 1.1.5.1.2.9 | Hold kickoff meeting | Complete | 1d | 13Nov09 13Nov09 | 05Jan10 05Jan10 | None | | None | | 1.1.5.1.2.8[FS+5d] | 1.1.5.1.2.10[FS] |
| 1.1.5.1.2.10 | Review background information | Complete | 2d | 16Nov09 18Nov09 | 06Jan10 07Jan10 | None | | None | | 1.1.5.1.2.9[FS] | 1.1.5.1.2.11[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1.5.1.2.11 | Prepare drawings | Complete | 10d | 16Nov09 03Dec09 | 08Jan10 22Jan10 | None | | None | | 1.1.5.1.2.10[FS] | 1.1.5.1.2.12[SS] |
| 1.1.5.1.2.12 | Prepare specifications | Complete | 10d | 16Nov09 03Dec09 | 08Jan10 22Jan10 | None | | None | | 1.1.5.1.2.11[SS] | 1.1.5.1.2.13[FS] |
| 1.1.5.1.2.13 | Assemble/print/distribute documents for review | Complete | 1d | 16Nov09 03Dec09 | 25Jan10 25Jan10 | None | | None | | 1.1.5.1.2.12[FS] | 1.1.5.1.2.14[FS] |
| 1.1.5.1.2.14 | Comment and compliance review | Complete | 10d | 04Dec09 18Dec09 | 26Jan10 08Feb10 | None | | None | | 1.1.5.1.2.13[FS] | 1.1.5.1.2.15[FS]; 1.1.5.1.2.16[FS]; 1.1.5.1.2.17[FS] |
| 1.1.5.1.2.15 | Finalize documents - fixed platforms | Complete | 10d | 21Dec09 11Jan10 | 09Feb10 22Feb10 | None | | None | | 1.1.5.1.2.14[FS] | 1.1.5.1.2.16[SS] |
| 1.1.5.1.2.16 | Prepare drawings and specifications - moveable access platforms | Complete | 10d | 12Jan10 01Feb10 | 09Feb10 22Feb10 | None | | None | | 1.1.5.1.2.15[SS]; 1.1.5.1.2.14[FS] | 1.1.5.1.2.17[SS] |
| 1.1.5.1.2.17 | Prepare cost estimate and schedule - moveable access platform | Complete | 10d | 12Jan10 01Feb10 | 09Feb10 22Feb10 | None | | None | | 1.1.5.1.2.16[SS]; 1.1.5.1.2.14[FS] | 1.1.5.1.2.18[FS] |
| 1.1.5.1.2.18 | Assemble/print/distribute documents for review | Complete | 1d | 12Jan10 02Feb10 | 23Feb10 23Feb10 | None | | None | | 1.1.5.1.2.17[FS] | 1.1.5.1.2.19[FS] |
| 1.1.5.1.2.19 | Comment and compliance review - MAP | Complete | 4d | 03Feb10 10Feb10 | 24Feb10 02Mar10 | None | | None | | 1.1.5.1.2.18[FS] | 1.1.5.1.2.20[FF] |
| 1.1.5.1.2.20 | Finalize documents - moveable access platform | Complete | 4d | 11Feb10 11Feb10 | 03Mar10 09Mar10 | None | | None | | 1.1.5.1.2.19[FF] | 1.1.5.1.2.21[FF] |
| 1.1.5.1.2.21 | Assemble/print/distribute final documents | Complete | 1d | 11Feb10 11Feb10 | 10Mar10 10Mar10 | None | | None | | 1.1.5.1.2.20[FF] | 1.1.5.1.2.22[FS] |
| 1.1.5.1.2.22 | Final design completed - Access Platforms | Complete | 0 | 11Feb10 11Feb10 | 10Mar10 10Mar10 | None | | None | | 1.1.5.1.2.21[FS] | 1.6.3.5.3.11[FF+20d]; 1.6.3.5.3.12[FF+20d]; 1.1.5.2.2.1[FS] |
| 1.1.5.2 | Procurement Phase | Complete | 107d | 13Oct09 19Mar10 | 23Nov09 03May10 | None | | None | | | |
| 1.1.5.2.1 | ND Surface Building - Procurement Phase | Complete | 37d | 13Oct09 04Dec09 | 23Nov09 29Jan10 | None | | None | | | |
| 1.1.5.2.1.1 | Prepare construction requisition | Complete | 1d | 13Oct09 13Oct09 | 23Nov09 23Nov09 | None | | None | | 1.1.5.1.1.19[SS] | 1.1.5.2.1.2[FS] |
| 1.1.5.2.1.2 | Circulate requisition for approvals | Complete | 10d | 14Oct09 22Oct09 | 24Nov09 09Dec09 | None | | None | | 1.1.5.2.1.1[FS] | 1.1.5.2.1.3[FS] |
| 1.1.5.2.1.3 | Prepare request for proposals | Complete | 5d | 22Oct09 27Oct09 | 10Dec09 16Dec09 | None | | None | | 1.1.5.2.1.2[FS] | 1.1.5.2.1.4[FS] |
| 1.1.5.2.1.4 | RFP issued for ND surface building construction | Complete | 0 | 28Oct09 28Oct09 | 17Dec09 17Dec09 | None | | None | | 1.1.5.1.1.22[FS]; 1.1.5.2.1.3[FS] | 1.1.5.2.1.5[FS+10d] |
| 1.1.5.2.1.5 | Receive proposals | Complete | 1d | 12Nov09 13Nov09 | 13Jan10 13Jan10 | None | | None | | 1.1.5.2.1.4[FS+10d] | 1.1.5.2.1.6[FS] |
| 1.1.5.2.1.6 | Review proposals | Complete | 5d | 14Nov09 16Nov09 | 14Jan10 21Jan10 | None | | None | | 1.1.5.2.1.5[FS] | 1.1.5.2.1.7[FS] |
| 1.1.5.2.1.7 | Prepare purchase order | Complete | 5d | 16Nov09 04Dec09 | 22Jan10 28Jan10 | None | | None | | 1.1.5.2.1.6[FS] | 1.1.5.2.1.8[FS] |
| 1.1.5.2.1.8 | NTP issued for Near Detector Surface Building | Complete | 0 | 04Dec09 04Dec09 | 29Jan10 29Jan10 | None | | None | | 1.1.5.2.1.7[FS] | 1.1.5.4.2.3[SS]; 1.1.5.4.2.2[SS]; 1.1.5.4.2.1[SS]; 1.1.5.3.1.1[FS] |
| 1.1.5.2.2 | Access Platforms - Procurement Phase | Complete | 39d | 26Jan10 19Mar10 | 11Mar10 03May10 | None | | None | | | |
| 1.1.5.2.2.1 | Prepare construction requisition | Complete | 1d | 26Jan10 26Jan10 | 11Mar10 11Mar10 | None | | None | | 1.1.5.1.2.22[FS] | 1.1.5.2.2.2[FS] |
| 1.1.5.2.2.2 | Circulate requisition for approvals | Complete | 10d | 28Jan10 11Feb10 | 12Mar10 25Mar10 | None | | None | | 1.1.5.2.2.1[FS] | 1.1.5.2.2.3[FS] |
| 1.1.5.2.2.3 | Prepare request for proposals | Complete | 5d | 11Feb10 12Feb10 | 26Mar10 01Apr10 | None | | None | | 1.1.5.2.2.2[FS] | 1.1.5.2.2.4[FS] |
| 1.1.5.2.2.4 | RFP issued for Access Platforms | Complete | 0 | 15Feb10 15Feb10 | 02Apr10 02Apr10 | None | | None | | 1.1.5.2.2.3[FS] | 1.1.5.2.2.5[FS+10d] |
| 1.1.5.2.2.5 | Receive proposals | Complete | 1d | 03Mar10 03Mar10 | 16Apr10 16Apr10 | None | | None | | 1.1.5.2.2.4[FS+10d] | 1.1.5.2.2.6[FS] |
| 1.1.5.2.2.6 | Review proposals | Complete | 2d | 04Mar10 05Mar10 | 19Apr10 23Apr10 | None | | None | | 1.1.5.2.2.5[FS] | 1.1.5.2.2.7[FS] |
| 1.1.5.2.2.7 | Prepare purchase order | Complete | 5d | 08Mar10 18Mar10 | 26Apr10 30Apr10 | None | | None | | 1.1.5.2.2.6[FS] | 1.1.5.2.2.8[FS] |
| 1.1.5.2.2.8 | NTP issued for Access Platforms | Complete | 0 | 19Mar10 19Mar10 | 03May10 03May10 | None | | None | | 1.1.5.2.2.7[FS] | 1.1.5.3.2.1[FS] |
| 1.1.5.3 | Construction Phase | Complete | 150d | 07Dec09 13Jul10 | 29Jan10 20Jul10 | None | | None | | | |
| 1.1.5.3.1 | ND Surface Building - Construction Phase | Complete | 139d | 07Dec09 25Jun10 | 29Jan10 06May10 | None | | None | | | |
| 1.1.5.3.1.1 | Mobilize | Complete | 10d | 07Dec09 09Dec09 | 29Jan10 11Feb10 | None | | None | | 1.1.5.2.1.8[FS] | 1.1.5.3.1.2[FS] |
| 1.1.5.3.1.2 | Civil Work | Complete | 20d | 09Dec09 15Apr10 | 12Feb10 11Mar10 | None | | None | | 1.1.5.3.1.1[FS] | 1.1.5.3.1.3[FF] |
| 1.1.5.3.1.3 | Structural work | Complete | 20d | 14Dec09 28Jan10 | 12Mar10 08Apr10 | None | | None | | 1.1.5.3.1.2[FF] | 1.1.5.3.1.5[FS]; 1.1.5.3.1.6[FS]; 1.1.5.3.1.4[FF] |
| 1.1.5.3.1.4 | Electrical work | Complete | 10d | 14Dec09 18May10 | 09Apr10 22Apr10 | None | | None | | 1.1.5.3.1.3[FF] | 1.1.5.3.2.4[FF]; 1.1.5.3.1.6[FF]; 1.1.5.3.1.5[FF] |
| 1.1.5.3.1.5 | Mechanical work | Complete | 10d | 22Mar10 18May10 | 09Apr10 22Apr10 | None | | None | | 1.1.5.3.1.4[FF]; 1.1.5.3.1.3[FS] | |
| 1.1.5.3.1.6 | Fire Protection | Complete | 10d | 08Feb10 18May10 | 09Apr10 22Apr10 | None | | None | | 1.1.5.3.1.4[FF]; 1.1.5.3.1.3[FS] | 1.1.5.3.1.7[FF+1d] |
| 1.1.5.3.1.7 | Spill Containment | Complete | 4d | 26Mar10 18May10 | 23Apr10 29Apr10 | None | | None | | 1.1.5.3.1.6[FF+1d] | 1.1.5.3.1.8[FS] |
| 1.1.5.3.1.8 | Beneficial Occupancy - Near Detector Surface Building | Complete | 0 | 18May10 18May10 | 29Apr10 29Apr10 | None | | None | | 1.1.5.3.1.7[FS] | 1.8.5.7.7[FS]; 1.1.5.3.1.9[FS] |
| 1.1.5.3.1.9 | Punchlist | Complete | 2d | 19May10 25Jun10 | 30Apr10 06May10 | None | | None | | 1.1.5.3.1.8[FS] | 1.1.5.3.1.10[FS] |
| 1.1.5.3.1.10 | Near Detector Surface Building Completed | Complete | 0 | 25Jun10 25Jun10 | 06May10 06May10 | None | | None | | 1.1.5.3.1.9[FS] | 1.1.5.4.2.2[FF]; 1.1.5.4.2.3[FF]; 1.8.5.7.14.2[FS]; 1.1.5.4.2.1[FF]; 1.8.5.7.7[FS]; 1.8.5.7.14.1[FS]; 1.8.5.7.1[FS] |
| 1.1.5.3.2 | Access Platforms - Construction Phase | Complete | 95d | 01Mar10 13Jul10 | 03May10 20Jul10 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.1.5.3.2.1 | Mobilize | Complete | 5d | 24Mar10 26Mar10 | 03May10 07May10 | None | | None | | 1.1.5.2.2.8[FS] | 1.1.5.3.2.2[FS] |
| 1.1.5.3.2.2 | Structural platforms | Complete | 20d | 22Mar10 20Apr10 | 10May10 07Jun10 | None | | None | | 1.1.5.3.2.1[FS] | 1.1.5.3.2.3[FF] |
| 1.1.5.3.2.3 | Moveable access platforms | Complete | 15d | 01Mar10 13Jul10 | 08Jun10 28Jun10 | None | | None | | 1.1.5.3.2.2[FF] | 1.1.5.3.2.5[FS] |
| 1.1.5.3.2.4 | Electrical work | Complete | 10d | 01Apr10 18May10 | 29Jun10 13Jul10 | None | | None | | 1.1.5.3.1.4[FF] | 1.1.5.3.2.5[FS] |
| 1.1.5.3.2.5 | Punchlist | Complete | 5d | 19May10 13Jul10 | 14Jul10 20Jul10 | None | | None | | 1.1.5.3.2.3[FS]; 1.1.5.3.2.4[FS] | 1.1.5.3.2.6[FS] |
| 1.1.5.3.2.6 | Access Platforms for ND Surface Building Completed | Complete | 0 | 13Jul10 13Jul10 | 20Jul10 20Jul10 | None | | None | | 1.1.5.3.2.5[FS] | 1.1.5.5[FS]; 1.8.5.7.14.2[FS] |
| 1.1.5.4 | EDIA | Complete | 272d | 01Sep09 30Sep10 | 01Sep09 20Jul10 | None | | None | | | |
| 1.1.5.4.1 | Final Design and Procurement Phase Support | Complete | 166d | 01Sep09 26Feb10 | 01Sep09 30Apr10 | None | | None | | 1.1.5.1.1.1[SS] | 1.1.5.4.2.2[FS]; 1.1.5.4.2.3[FS]; 1.1.5.4.2.1[FS] |
| 1.1.5.4.2 | Construction Phase Support | Complete | 206d | 07Dec09 30Sep10 | 03May10 20Jul10 | None | | None | | | |
| 1.1.5.4.2.1 | Engineering Support | Complete | 55d | 07Dec09 30Sep10 | 03May10 20Jul10 | None | | None | | 1.1.5.3.1.10[FF]; 1.1.5.2.1.8[SS]; 1.1.5.4.1[FS] | |
| 1.1.5.4.2.2 | Construction Coordinator Support | Complete | 55d | 07Dec09 30Sep10 | 03May10 20Jul10 | None | | None | | 1.1.5.3.1.10[FF]; 1.1.5.4.1[FS]; 1.1.5.2.1.8[SS] | |
| 1.1.5.4.2.3 | A/E Support | Complete | 55d | 09Dec09 30Jul10 | 03May10 20Jul10 | None | | None | | 1.1.5.3.1.10[FF]; 1.1.5.4.1[FS]; 1.1.5.2.1.8[SS] | |
| 1.1.5.5 | Remove NDOS building scope and budget | Complete | 1d | 31Jan13 31Jan13 | 31Jan13 31Jan13 | None | | None | | 1.1.5.3.2.6[FS] | |
| 1.2 | Liquid Scintillator R&D | Complete | 1276d | 03Oct05 29Oct10 | 01May07 28May10 | None | | None | | | |
| 1.2.2 | Scintillator Composition Studies | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | 1.2.10.1[FS] |
| 1.2.2.8 | Continue scintillator composition studies - value engineering - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.2.7[FS] | |
| 1.2.3 | Accelerated Aging Studies | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | 1.2.10.1[FS] |
| 1.2.3.5 | Continue accelerated aging studies - value engineering - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.3.4[FS] | |
| 1.2.4 | Scintillator Production Method Studies | Complete | 834d | 03Oct05 30Jan09 | 01May07 30Jan09 | None | | None | | | 1.2.10.1[FS] |
| 1.2.4.3 | Study mixing methods for waveshifters and pseudocumene - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.4.2[FS] | |
| 1.2.4.6 | Study mixing methods for fluor (pre) mix with mineral oil - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.4.5[FS] | |
| 1.2.4.7 | Production Blending Development - FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | | 2.2.4.4.2[FS] |
| 1.2.4.8 | Production Blending Development - FY08 - part 2 | Complete | 42d | 01Aug08 30Sep08 | 01Aug08 30Sep08 | None | | None | | | 1.2.4.9[FS] |
| 1.2.4.9 | Production Blending Development - FY09- Oct-Jan | Complete | 81d | 01Oct08 30Jan09 | 01Oct08 30Jan09 | None | | None | | 1.2.4.8[FS] | 2.2.4.4.2[FS] |
| 1.2.5 | Development of QC Methods | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | 1.2.10.1[FS] |
| 1.2.5.1 | Procedures | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.5.1.7 | Continue QC procedure development - value engineering - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.5.1.6[FS] | |
| 1.2.5.2 | QC Hardware Development | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.5.2.1 | QC Hardware Development - IU | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.5.2.1.6 | Evaluate - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.5.2.1.5[FS] | |
| 1.2.5.2.2 | QC Hardware Development - SMU | Complete | 440d | 03Jan06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.5.2.2.5 | Evaluate-2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.5.2.2.4[FS] | |
| 1.2.6 | Scintillator Transportation Studies | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | 1.2.10.1[FS] |
| 1.2.6.1 | Studies of Transport to Mixing Facility | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.6.1.3 | Study transport of mineral oil to mixing facility - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.6.1.2[FS] | |
| 1.2.6.2 | Studies of Transport to Detector Sites | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.6.2.5 | Study transport methods to far detector site - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.6.2.4[FS] | |
| 1.2.7 | Blending Investigations | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | 1.2.10.1[FS] |
| 1.2.7.5 | Continue blending option investigations - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.7.4[FS]; 1.2.7.3[FS] | |
| 1.2.8 | Component Aquisition Investigations | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.8.1 | Mineral Oil Vendors | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.8.1.5 | Continue investigation of mineral oil vendors for production - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.8.1.4[FS] | 2.2.1.1[FS] |
| 1.2.8.2 | Pseudocumene Vendors | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.2.8.2.5 | Continue investigation of pseudocumene vendors for production - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.8.2.4[FS] | 2.2.2.1[FS] |
| 1.2.9 | Integration Prototype Detector Scintillator Production | Complete | 1186d | 25Jan06 11Oct10 | 01May07 28May10 | None | | None | | | |
| 1.2.9.1 | ISO Tanks | Complete | 918d | 02Oct06 28May10 | 24Jul07 28May10 | None | | None | | | |
| 1.2.9.1.3 | PO issued for ISO tanks | Complete | 0 | 24Jul07 24Jul07 | 24Jul07 24Jul07 | None | | None | | 1.2.9.1.2[FS+60d] | 1.2.9.1.4[FS+15d] |
| 1.2.9.1.4 | ISO tanks delivery and leasing | Complete | 420d | 15Aug07 30Apr09 | 15Aug07 17Apr09 | None | | None | | 1.2.9.1.3[FS+15d] | 1.2.9.2.1.1[SS-19d] |
| 1.2.9.1.5 | ISO tank leasing - continued | Complete | 229d | 01Jul09 28May10 | 01Jul09 28May10 | None | | None | | 1.2.9.7.1[FF+5d] | |
| 1.2.9.2 | Infrastructure | Complete | 806d | 01May07 15Jul10 | 01May07 19May09 | None | | None | | | |
| 1.2.9.2.1 | Secondary Containment For Blending Facility | Complete | 31d | 19Jul07 30Aug07 | 19Jul07 29Aug07 | None | | None | | | |
| 1.2.9.2.1.1 | Purchase secondary containment | Complete | 20d | 19Jul07 15Aug07 | 19Jul07 15Aug07 | None | | None | | 1.2.9.1.4[SS-19d] | 1.2.9.2.1.2[FS] |
| 1.2.9.2.1.2 | Set up and install secondary containment | Complete | 10d | 16Aug07 30Aug07 | 16Aug07 29Aug07 | None | | None | | 1.2.9.2.1.1[FS] | 1.2.9.2.6[FS] |
| 1.2.9.2.2 | Blending System | Complete | 230d | 01May07 31Mar08 | 01May07 01Nov07 | None | | None | | | |
| 1.2.9.2.2.1 | Design IPND blending system | Complete | 70d | 01May07 15Aug07 | 01May07 08Aug07 | None | | None | | | 1.2.9.2.8[FS]; 1.2.9.2.2.2[FS] |
| 1.2.9.2.2.2 | Procure blending system parts (pumps, hoses, instrumentation, scales) | Complete | 100d | 01Aug07 28Dec07 | 09Aug07 04Oct07 | None | | None | | 1.2.9.2.2.1[FS] | 1.2.9.2.2.3[SS]; 1.2.9.2.3[SS] |
| 1.2.9.2.2.3 | Assemble blending system | Complete | 100d | 01Aug07 31Mar08 | 05Oct07 01Nov07 | None | | None | | 1.2.9.2.2.2[SS] | 1.2.9.2.2.4[SS]; 1.2.9.2.5[FS] |
| 1.2.9.2.2.4 | Electrical hook-up of blending system | Complete | 100d | 01Aug07 31Mar08 | 05Oct07 18Oct07 | None | | None | | 1.2.9.2.2.3[SS] | 1.2.9.2.5[FS] |
| 1.2.9.2.3 | Procure fire protection equipment | Complete | 100d | 01Aug07 28Dec07 | 09Aug07 06Sep07 | None | | None | | 1.2.9.2.2.2[SS] | 1.2.9.2.5[FS] |
| 1.2.9.2.5 | Commission blending system | Complete | 5d | 31Mar08 31Mar08 | 31Jan08 06Feb08 | None | | None | | 1.2.9.2.3[FS]; 1.2.9.2.2.4[FS]; 1.2.9.2.2.3[FS] | 1.2.9.2.6[FS] |
| 1.2.9.2.6 | Prototype blending system facility completed | Complete | 0 | 31Mar08 31Mar08 | 06Feb08 06Feb08 | None | | None | | 1.2.9.2.5[FS]; 1.2.9.2.1.2[FS] | 1.2.9.6.1[FS] |
| 1.2.9.2.7 | Decommission prototype blending infrastructure | Complete | 5d | 01Jul10 15Jul10 | 18Feb09 24Feb09 | None | | None | | 1.2.9.6.11[FS] | 1.2.9.2.8[FS] |
| 1.2.9.2.8 | Prepare specifications for commercial blending facility | Complete | 60d | 01Dec09 15Mar10 | 25Feb09 19May09 | None | | None | | 1.2.9.2.7[FS]; 1.2.9.2.2.1[FS] | |
| 1.2.9.3 | Mineral Oil | Complete | 952d | 25Jan06 03Nov09 | 29Aug07 03Feb09 | None | | None | | | |
| 1.2.9.3.6 | Mineral oil batch 1 for IPND delivered | Complete | 0 | 31Aug07 31Aug07 | 29Aug07 29Aug07 | None | | None | | 1.2.9.3.5[FS] | 1.2.9.3.7[FS] |
| 1.2.9.3.7 | QC batch 1 | Complete | 1d | 30Aug07 28Sep07 | 30Aug07 30Aug07 | None | | None | | 1.2.9.3.6[FS] | 1.2.9.6.5[FS]; 1.2.9.3.10[FS] |
| 1.2.9.3.9 | Mineral oil batch 2 for IPND delivered | Complete | 0 | 14May08 14May08 | 02Feb09 02Feb09 | None | | None | | 1.2.9.3.8[FS] | 1.2.9.3.10[FS] |
| 1.2.9.3.10 | QC batch 2 | Complete | 1d | 14May08 14May08 | 03Feb09 03Feb09 | None | | None | | 1.2.9.3.9[FS]; 1.2.9.3.7[FS] | 1.2.9.6.7[FS]; 1.2.9.3.13[SS] |
| 1.2.9.3.12 | Mineral oil batch 3 for IPND delivered (obsolete) | Complete | 0 | 02Nov09 02Nov09 | 02Feb09 02Feb09 | None | | None | | 1.2.9.3.11[FS] | 1.2.9.3.13[FS] |
| 1.2.9.3.13 | QC batch 3 (obsolete) | Complete | 1d | 03Nov09 03Nov09 | 03Feb09 03Feb09 | None | | None | | 1.2.9.3.12[FS]; 1.2.9.3.10[SS] | 1.2.9.6.9[FS] |
| 1.2.9.6 | Blending | Complete | 694d | 09Nov07 17Aug10 | 09Nov07 17Feb09 | None | | None | | | |
| 1.2.9.6.1 | Blend psuedocumene and waveshifters-batch 1 | Complete | 5d | 09Nov07 09Nov07 | 09Nov07 15Nov07 | None | | None | | 1.2.9.4.1.4[FS]; 1.2.9.2.6[FS]; 1.2.9.5.4[FS] | 1.2.9.6.2[FS]; 1.2.9.6.3[FS] |
| 1.2.9.6.2 | QC fluor blend-batch 1 | Complete | 1d | 09Nov07 30Nov07 | 16Nov07 16Nov07 | None | | None | | 1.2.9.6.1[FS] | 1.2.9.6.4[FS]; 1.2.9.6.5[FS] |
| 1.2.9.6.3 | Blend psuedocumene and waveshifters-batch 2 | Complete | 5d | 02Aug10 06Aug10 | 02Feb09 06Feb09 | None | | None | | 1.2.9.4.1.4[FS]; 1.2.9.6.1[FS]; 2.10.9.7[FS] | 1.2.9.6.4[FS] |
| 1.2.9.6.4 | QC fluor blend-batch 2 | Complete | 1d | 09Aug10 09Aug10 | 09Feb09 09Feb09 | None | | None | | 1.2.9.6.2[FS]; 1.2.9.6.3[FS] | 1.2.9.6.7[FS] |
| 1.2.9.6.5 | Blend mineral oil with fluor blend-batch 1 | Complete | 5d | 01Apr08 01Apr08 | 07Feb08 13Feb08 | None | | None | | 1.2.9.3.7[FS]; 1.2.9.6.2[FS] | 1.2.9.6.6[FS] |
| 1.2.9.6.6 | QC scintillator blend-batch 1 | Complete | 10d | 03Apr08 02Aug10 | 14Feb08 14Feb08 | None | | None | | 1.2.9.6.5[FS] | 1.2.9.7.1[FS]; 1.2.9.6.8[FS] |
| 1.2.9.6.7 | Blend mineral oil with fluor blend-batch 2 | Complete | 5d | 10Aug10 16Aug10 | 10Feb09 16Feb09 | None | | None | | 1.2.9.6.4[FS]; 1.2.9.3.10[FS] | 1.2.9.6.8[FS]; 1.2.9.6.9[SS] |
| 1.2.9.6.8 | QC scintillator blend-batch 2 | Complete | 1d | 17Aug10 17Aug10 | 17Feb09 17Feb09 | None | | None | | 1.2.9.6.6[FS]; 1.2.9.6.7[FS] | 1.2.9.7.2[FS]; 1.2.9.6.10[SS] |
| 1.2.9.6.9 | Blend mineral oil with fluor blend-batch 3 | Complete | 5d | 10Aug10 16Aug10 | 10Feb09 16Feb09 | None | | None | | 1.2.9.3.13[FS]; 1.2.9.6.7[SS] | 1.2.9.6.10[FS] |
| 1.2.9.6.10 | QC scintillator blend-batch 3 | Complete | 1d | 17Aug10 17Aug10 | 17Feb09 17Feb09 | None | | None | | 1.2.9.6.9[FS]; 1.2.9.6.8[SS] | 1.2.9.7.3[FS]; 1.2.9.6.11[FS] |
| 1.2.9.6.11 | Prototype scintillator production completed | Complete | 0 | 17Aug10 17Aug10 | 17Feb09 17Feb09 | None | | None | | 1.2.9.6.10[FS] | 1.8.5.7.7[FS]; 1.2.9.2.7[FS] |
| 1.2.9.7 | Transport | Complete | 1d | 11Oct10 11Oct10 | 02Feb09 19Feb09 | None | | None | | | |
| 1.2.9.7.1 | Batch 1 to integration prototype site | Complete | 1d | 11Oct10 11Oct10 | 02Feb09 02Feb09 | None | | None | | 1.2.9.6.6[FS]; 2.10.9.7[FS] | 1.2.9.7.2[FS]; 1.2.9.1.5[FF+5d] |
| 1.2.9.7.2 | Batch 2 to integration prototype site | Complete | 1d | 11Oct10 11Oct10 | 18Feb09 18Feb09 | None | | None | | 1.2.9.7.1[FS]; 1.2.9.6.8[FS] | 1.2.9.7.3[FS] |
| 1.2.9.7.3 | Batch 3 to integration prototype site | Complete | 1d | 11Oct10 11Oct10 | 19Feb09 19Feb09 | None | | None | | 1.2.9.6.10[FS]; 1.2.9.7.2[FS] | |
| 1.2.10 | Production Scintillator Specifications | Complete | 404d | 01Aug08 15Mar10 | 02Feb09 20Feb09 | None | | None | | | |
| 1.2.10.1 | Evaluate R&D results | Complete | 10d | 01Aug08 26Feb10 | 02Feb09 13Feb09 | None | | None | | 1.2.4[FS]; 1.2.5[FS]; 1.2.3[FS]; 1.2.7[FS]; 1.2.2[FS]; 1.2.6[FS]; 2.10.9.7[FS] | 1.2.10.2[FS] |
| 1.2.10.2 | Prepare final specifications document for production scintillator | Complete | 5d | 01Feb10 15Mar10 | 16Feb09 20Feb09 | None | | None | | 1.2.10.1[FS] | 1.2.10.3[FS]; 2.2.1.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.2.10.3 | Liquid scintillator final specifications completed | Complete | 0 | 13Mar09 13Mar09 | 20Feb09 20Feb09 | None | | None | | 1.2.10.2[FS] | 2.2.1.1[FS] |
| 1.2.11 | Management - R&D Phase | Complete | 1276d | 03Oct05 29Oct10 | 01May07 28Dec07 | None | | None | | | |
| 1.2.11.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Oct06 | None | | | |
| 1.2.11.2.2 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.2.11.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.11.2.1.1[FS] | 1.2.11.3.1[FS] |
| 1.2.11.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.11.2.1.2[FS] | 1.2.11.3.2[FS] |
| 1.2.11.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.11.2.1.3[FS] | 1.2.11.3.3[FS] |
| 1.2.11.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.2.11.2.1.4[FS] | 1.2.11.3.4[FS] |
| 1.2.11.3 | FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | | |
| 1.2.11.3.1 | Labor | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.2.11.2.2.1[FS] | |
| 1.2.11.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.2.11.2.2.2[FS] | |
| 1.2.11.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.2.11.2.2.3[FS] | |
| 1.2.11.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.2.11.2.2.4[FS] | |
| 1.2.11.5 | Post CD-1 Liquid Scintillator R&D Cost Account | Complete | 106d | 01May07 29Oct10 | 01May07 28Sep07 | None | | None | | | |
| 1.3 | Wave-Length-Shifting Fiber R&D | Complete | 1214d | 03Oct05 03Aug10 | 01May07 09Oct09 | None | | None | | | |
| 1.3.2 | Vendor Investigations | Complete | 874d | 03Oct05 27Mar09 | 01May07 27Feb09 | None | | None | | | |
| 1.3.2.5 | Work with vendors to achieve requirements - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.2.4[FS] | 1.3.2.12[FS]; 1.3.2.11[FS]; 1.3.2.10[FS] |
| 1.3.2.9 | Coordinate sample fiber procurements - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.2.8[FS] | |
| 1.3.2.10 | Document vendor interactions and performance | Complete | 20d | 02Mar09 27Mar09 | 02Feb09 27Feb09 | None | | None | | 1.3.2.5[FS]; 2.10.9.7[FS] | |
| 1.3.2.11 | Review and select vendor for production fiber | Complete | 1d | 02Mar09 02Mar09 | 02Feb09 02Feb09 | None | | None | | 1.3.2.5[FS]; 2.10.9.7[FS] | |
| 1.3.2.12 | Review and select diameter for production fiber | Complete | 1d | 02Mar09 02Mar09 | 02Feb09 02Feb09 | None | | None | | 1.3.2.5[FS]; 2.10.9.7[FS] | |
| 1.3.3 | WLS Fiber Optimization Studies | Complete | 776d | 15Mar06 15Apr09 | 01May07 31Mar09 | None | | None | | | |
| 1.3.3.1 | R&D Fiber Procurement | Complete | 390d | 15Mar06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.3.3.1.3 | Procure fiber for R&D - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.3.1.2[FS] | |
| 1.3.3.2 | Diameter Constraints | Complete | 289d | 15Mar06 07May07 | 01May07 07May07 | None | | None | | | |
| 1.3.3.2.7 | Document test results | Complete | 5d | 01May07 07May07 | 01May07 07May07 | None | | None | | 1.3.3.2.5[FS]; 1.3.3.2.6[FS] | |
| 1.3.3.3 | Fluorescent Dye and Concentration Studies | Complete | 765d | 15Mar06 31Mar09 | 01May07 30Mar09 | None | | None | | | |
| 1.3.3.3.1 | Fluorescent Dye and Concentration Studies - MSU | Complete | 765d | 15Mar06 31Mar09 | 01May07 30Mar09 | None | | None | | | |
| 1.3.3.3.1.4 | Phase 2 - MSU | Complete | 502d | 02Apr07 31Mar09 | 01May07 30Mar09 | None | | None | | | |
| 1.3.3.3.1.4.2 | Setup test equipment | Complete | 30d | 01May07 12Jun07 | 01May07 12Jun07 | None | | None | | 1.3.3.3.1.4.1[FS] | 1.3.3.3.1.4.3[FS]; 1.3.3.3.2.2.2[SS] |
| 1.3.3.3.1.4.3 | Perform spectral analyses @ 15 m length | Complete | 95d | 13Jun07 28Dec07 | 13Jun07 28Dec07 | None | | None | | 1.3.3.3.1.4.2[FS] | 1.3.3.3.1.4.5[FS]; 1.3.3.3.1.4.4[FS]; 1.3.3.7[FS]; 1.3.3.3.2.2.3[SS]; 1.3.3.5[FS] |
| 1.3.3.3.1.4.4 | Document results | Complete | 3d | 26Mar09 31Mar09 | 26Mar09 30Mar09 | None | | None | | 1.3.3.3.1.4.3[FS]; 1.3.3.3.1.4.5[FS] | 1.3.4.2[FS]; 1.3.4.1[FS]; 1.3.3.3.2.2.4[SS] |
| 1.3.3.3.1.4.5 | Perform spectral analyses @ 15 m length - part 2 | Complete | 38d | 02Mar09 26Mar09 | 02Feb09 25Mar09 | None | | None | | 1.3.3.3.1.4.3[FS]; 2.10.9.7[FS] | 1.3.3.3.1.4.4[FS] |
| 1.3.3.3.2 | Fluorescent Dye and Concentration Studies - UT Dallas | Complete | 759d | 22Mar06 30Mar09 | 01May07 30Mar09 | None | | None | | | |
| 1.3.3.3.2.2 | Phase 2- UT Dallas | Complete | 501d | 02Apr07 30Mar09 | 01May07 30Mar09 | None | | None | | | |
| 1.3.3.3.2.2.2 | Setup test equipment | Complete | 30d | 01May07 12Jun07 | 01May07 12Jun07 | None | | None | | 1.3.3.3.2.2.1[FS]; 1.3.3.3.1.4.2[SS] | 1.3.3.3.2.2.3[FS] |
| 1.3.3.3.2.2.3 | Perform spectral analyses @ 15 m length | Complete | 95d | 13Jun07 15Mar08 | 13Jun07 25Oct07 | None | | None | | 1.3.3.3.2.2.2[FS]; 1.3.3.3.1.4.3[SS] | 1.3.3.3.2.2.4[FS] |
| 1.3.3.3.2.2.4 | Document results | Complete | 3d | 26Mar09 30Mar09 | 26Mar09 30Mar09 | None | | None | | 1.3.3.3.2.2.3[FS]; 1.3.3.3.1.4.4[SS] | 1.3.4.1[FS] |
| 1.3.3.4 | Chemical and Environmental Stability Testing | Complete | 776d | 15Mar06 15Apr09 | 01May07 17Feb09 | None | | None | | | |
| 1.3.3.4.7 | Perform bending tests in liquid scintillator - 2HFY07 | Complete | 103d | 01May07 28Sep07 | 01May07 29Jun07 | None | | None | | 1.3.3.4.6[FS] | 1.3.3.4.11[FS] |
| 1.3.3.4.9 | Perform accelerated aging tests in liquid scintillator - 2H FY07 | Complete | 103d | 01May07 28Sep07 | 01May07 29Jun07 | None | | None | | 1.3.3.4.8[FS] | 1.3.3.4.11[FS] |
| 1.3.3.4.10 | Determine survival limits during shipping and handling | Complete | 32d | 01Nov07 28Dec07 | 01Nov07 28Dec07 | None | | None | | 1.3.3.4.5[FS]; 1.3.3.1.1[FS] | 1.3.3.4.11[FS]; 1.3.3.4.13[FS] |
| 1.3.3.4.11 | Document results | Complete | 3d | 02Mar09 15Apr09 | 12Feb09 16Feb09 | None | | None | | 1.3.3.4.10[FS]; 1.3.3.4.7[FS]; 1.3.3.4.9[FS]; 1.3.3.4.13[FS] | 1.3.3.4.12[FS] |
| 1.3.3.4.12 | Review and certify fiber OK in scintillator | Complete | 1d | 17Mar09 17Mar09 | 17Feb09 17Feb09 | None | | None | | 1.3.3.4.11[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.3.3.4.13 | Determine survival limits during shipping and handling - part 2 | Complete | 8d | 02Mar09 11Mar09 | 02Feb09 11Feb09 | None | | None | | 1.3.3.4.10[FS]; 2.10.9.7[FS] | 1.3.3.4.11[FS] |
| 1.3.3.5 | Review and select fiber dye concentration | Complete | 1d | 02Jan09 02Jan09 | 31Mar09 31Mar09 | None | | None | | 1.3.3.3.1.4.3[FS] | 1.3.3.7[FS] |
| 1.3.3.7 | Baseline (IPND) WLS fiber dye concentration chosen | Complete | 0 | 02Jan09 02Jan09 | 31Mar09 31Mar09 | None | | None | | 1.3.3.6[FS]; 1.3.3.5[FS]; 1.3.3.3.1.4.3[FS] | 1.3.5.1[FS]; 1.3.6.2[FS] |
| 1.3.4 | Development of QA Methods | Complete | 691d | 31Oct07 03Aug10 | 31Oct07 13May09 | None | | None | | | |
| 1.3.4.1 | Develop QA procedures | Complete | 11d | 31Oct07 28Dec07 | 31Oct07 28Dec07 | None | | None | | 1.3.3.3.1.4.4[FS]; 1.3.3.3.2.2.4[FS] | 1.3.4.3[FS]; 1.3.4.5[FS] |
| 1.3.4.2 | Develop QA test equipment for fiber acceptance | Complete | 33d | 31Oct07 28Dec07 | 31Oct07 28Dec07 | None | | None | | 1.3.3.3.1.4.4[FS] | 1.3.4.4[FS] |
| 1.3.4.3 | Develop QA documentation tool | Complete | 11d | 01Nov07 28Dec07 | 01Nov07 28Dec07 | None | | None | | 1.3.4.5[FS]; 1.3.4.1[FS] | 1.3.4.7[FS] |
| 1.3.4.4 | Document results | Complete | 5d | 01May09 03Aug10 | 07May09 13May09 | None | | None | | 1.3.4.6[FS]; 1.3.4.2[FS] | |
| 1.3.4.5 | Develop QA procedures - part 2 | Complete | 9d | 02Mar09 02Oct09 | 31Mar09 10Apr09 | None | | None | | 2.10.9.7[FS]; 1.3.4.1[FS] | 1.3.4.3[FS] |
| 1.3.4.6 | Develop QA test equipment for fiber acceptance - part 2 | Complete | 100d | 01Aug08 09Jan09 | 01Aug08 23Dec08 | None | | None | | | 1.3.4.4[FS] |
| 1.3.4.7 | Develop QA documentation tool - part 2 | Complete | 9d | 02Mar09 06Oct09 | 13Apr09 23Apr09 | None | | None | | 1.3.4.3[FS]; 2.10.9.7[FS] | |
| 1.3.5 | Integration Prototype Detector Fiber Production | Complete | 400d | 02Jan09 03Aug10 | 06Feb09 09Oct09 | None | | None | | | |
| 1.3.5.1 | Procure fiber for integration prototype | Complete | 50d | 02Jan09 09Feb09 | 01Apr09 10Jun09 | None | | None | | 1.3.3.7[FS]; 1.3.3.6[FS] | 1.3.5.2[FS] |
| 1.3.5.2 | Compare IPND fiber to R&D fiber | Complete | 80d | 10Feb09 15Feb10 | 06Feb09 29May09 | None | | None | | 1.3.5.1[FS] | 1.3.5.4[FS]; 1.3.5.3[SS+15d] |
| 1.3.5.3 | Ship IPND fiber to Minnesota | Complete | 70d | 01Oct09 15Feb10 | 02Jul09 09Oct09 | None | | None | | 1.3.5.2[SS+15d] | 1.5.7.3.6[FF+5d]; 1.5.7.3.6[SS+1d] |
| 1.3.5.4 | Document IPND fiber tests | Complete | 5d | 01May09 03Aug10 | 02Jul09 09Jul09 | None | | None | | 1.3.5.2[FS] | 1.3.5.5[FS] |
| 1.3.5.5 | IPND WLS fiber production completed | Complete | 0 | 03Feb10 03Feb10 | 09Jul09 09Jul09 | None | | None | | 1.3.5.4[FS] | |
| 1.3.6 | Production WLS Fiber Specifications | Complete | 11d | 01Jul09 16Jul09 | 01Apr09 23Jul09 | None | | None | | | |
| 1.3.6.2 | Review IPND fiber parameter choices | Complete | 5d | 01Jul09 16Jul09 | 01Apr09 07Apr09 | None | | None | | 1.3.3.6[FS]; 1.3.3.7[FS] | 1.3.6.5[FS]; 1.3.6.6[FS] |
| 1.3.6.3 | Review results of IPND fiber tests | Complete | 5d | 01Jul09 16Jul09 | 10Jul09 16Jul09 | None | | None | | | 1.3.6.6[FS]; 1.3.6.5[FS]; 2.3.1.4[FS] |
| 1.3.6.5 | Production WLS fiber diameter confirmed | Complete | 0 | 16Jul09 16Jul09 | 16Jul09 16Jul09 | None | | None | | 1.3.6.2[FS]; 1.3.6.3[FS] | 1.3.6.7[FF] |
| 1.3.6.6 | Production WLS fiber composition confirmed | Complete | 0 | 16Jul09 16Jul09 | 16Jul09 16Jul09 | None | | None | | 1.3.6.3[FS]; 1.3.6.2[FS] | 1.3.6.7[FF] |
| 1.3.6.7 | Prepare specification document for production WLS fiber | Complete | 5d | 01Jul09 16Jul09 | 17Jul09 23Jul09 | None | | None | | 1.3.6.6[FF]; 1.3.6.5[FF] | 2.3.1.1[FF] |
| 1.3.7 | Management - R&D Phase | Complete | 1214d | 03Oct05 03Aug10 | 01May07 28Dec07 | None | | None | | | |
| 1.3.7.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Oct06 | None | | | |
| 1.3.7.2.2 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.3.7.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.7.2.1.1[FS] | 1.3.7.3.1[FS] |
| 1.3.7.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.7.2.1.2[FS] | 1.3.7.3.2[FS] |
| 1.3.7.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.7.2.1.3[FS] | 1.3.7.3.3[FS] |
| 1.3.7.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.3.7.2.1.4[FS] | 1.3.7.3.4[FS] |
| 1.3.7.3 | FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | | |
| 1.3.7.3.1 | Labor | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.3.7.2.2.1[FS] | |
| 1.3.7.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.3.7.2.2.2[FS] | |
| 1.3.7.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.3.7.2.2.3[FS] | |
| 1.3.7.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.3.7.2.2.4[FS] | |
| 1.3.7.5 | Post CD-1 WLS Fiber R&D Cost Account | Complete | 104d | 01May07 03Aug10 | 01May07 26Sep07 | None | | None | | | |
| 1.4 | PVC Extrusion R&D | Complete | 1552d | 03Oct05 06Dec11 | 01May07 30Dec09 | None | | None | | | |
| 1.4.1 | Physical Properties Determination and Test Method Development | Complete | 1293d | 03Oct05 23Nov10 | 01May07 30Dec09 | None | | None | | | |
| 1.4.1.1 | Extrusion Optical Properties | Complete | 1293d | 03Oct05 23Nov10 | 01May07 27Feb09 | None | | None | | | |
| 1.4.1.1.1 | General Consulting on PVC Reflectivity Issues | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.1.1.3 | Consulting on PVC reflectivity issues - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.1.1.2[FS] | |
| 1.4.1.1.2 | Reflectivity Test Methods - FNAL | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.1.2.4 | Investigate extruding process properties and surface effects on reflectivity of new | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.1.2.3[FS] | |
| 1.4.1.1.2.5 | Reflectivity Tests on New Materials | Complete | 451d | 14Dec05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.1.2.5.3 | Perform reflectivity tests on new materials - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.1.2.5.2[FS] | 1.4.1.1.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.1.1.3 | Reflectivity Measurements - CT | Complete | 440d | 03Jan06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.1.3.2 | Light Output Tests on New Materials | Complete | 380d | 29Mar06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.1.3.2.3 | Perform light output tests on new materials - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.1.3.2.2[FS] | 1.4.1.1.4[FS] |
| 1.4.1.1.4 | Document extrusion optical properties | Complete | 20d | 29May09 23Nov10 | 02Feb09 27Feb09 | None | | None | | 1.4.1.1.3.2.3[FS]; 1.4.1.1.2.5.3[FS]; 2.10.9.7[FS] | |
| 1.4.1.2 | Extrusion Mechanical Properties | Complete | 1064d | 14Nov05 12Feb10 | 01May07 28Oct09 | None | | None | | | |
| 1.4.1.2.1 | Tensile Properties | Complete | 316d | 28Jun06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.2.1.3 | Perform tensile tests - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.1.2[FS] | |
| 1.4.1.2.2 | Creep Tests | Complete | 723d | 14Nov05 30Sep08 | 01May07 29Sep08 | None | | None | | | |
| 1.4.1.2.2.1 | Creep Tests-FNAL | Complete | 398d | 03Mar06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.1.2.2.1.4 | Perform long-term creep tests - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.2.1.3[FS] | |
| 1.4.1.2.2.2 | Creep Tests-ANL | Complete | 723d | 14Nov05 30Sep08 | 01May07 29Sep08 | None | | None | | | |
| 1.4.1.2.2.2.3 | Perform long-term creep tests - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.2.2.2[FS] | 1.4.1.2.2.2.4[FS] |
| 1.4.1.2.2.2.4 | Perform long-term creep tests - FY08 | Complete | 251d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | None | | None | | 1.4.1.2.2.2.3[FS] | 1.4.1.2.2.2.9[SS] |
| 1.4.1.2.2.2.6 | Perform accelerated creep tests - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.2.2.5[FS] | |
| 1.4.1.2.2.2.8 | Analyze creep test data - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.2.2.7[FS] | 1.4.1.2.2.2.9[FS] |
| 1.4.1.2.2.2.9 | Analyze creep test data - FY08 | Complete | 251d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | None | | None | | 1.4.1.2.2.2.8[FS]; 1.4.1.2.2.2.4[SS] | |
| 1.4.1.2.3 | Impact/ Fracture Toughness Properties | Complete | 970d | 03Apr06 12Feb10 | 01May07 31Mar09 | None | | None | | | |
| 1.4.1.2.3.4 | Characterize impact properties of PVC compounds - continued | Complete | 168d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.4.1.2.3.3[FS] | 1.4.1.2.3.5[FS] |
| 1.4.1.2.3.5 | Characterize impact properties of PVC compounds - continued - part 2 | Complete | 42d | 23Mar09 12Feb10 | 02Feb09 31Mar09 | None | | None | | 2.10.9.7[FS]; 1.4.1.2.3.4[FS] | |
| 1.4.1.2.4 | Scintillator Exposure Tests | Complete | 963d | 01Dec05 30Sep09 | 01May07 28Oct09 | None | | None | | | |
| 1.4.1.2.4.3 | Investigate environmental effects on PVC compounds - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.2.4.2[FS] | 1.4.1.2.4.4[FS] |
| 1.4.1.2.4.4 | Investigate environmental effects on PVC compounds - FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.4.1.2.4.3[FS] | 1.4.1.2.4.5[FS] |
| 1.4.1.2.4.5 | Investigate environmental effects on PVC compounds - Part 2 | Complete | 190d | 04Mar09 30Sep09 | 02Feb09 28Oct09 | None | | None | | 1.4.1.2.4.4[FS]; 2.10.9.7[FS] | |
| 1.4.1.3 | Quality Control and Assurance | Complete | 732d | 05Mar07 02Feb10 | 01May07 30Dec09 | None | | None | | | |
| 1.4.1.3.1 | Determine frequency and type of mechanical tests done at extruder for QC | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.4.3.4.5.4[FS] | 1.4.1.3.2[SS]; 1.4.1.3.12[FS] |
| 1.4.1.3.2 | Develop/purchase equipment for QC tests at extruder | Complete | 147d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.4.1.3.1[SS] | 1.4.1.3.13[FS] |
| 1.4.1.3.4 | Perform mechanical tests for quality assurance - horizontal extrusions - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.3.3[FS] | |
| 1.4.1.3.5 | Perform mechanical tests for quality assurance - vertical extrusions | Complete | 110d | 12Jul07 28Dec07 | 12Jul07 28Dec07 | None | | None | | 1.4.3.5.7[SS] | 1.4.1.3.14[FS] |
| 1.4.1.3.7 | Perform reflectivity tests for quality assurance - horizontal extrusions-2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.1.3.6[FS] | |
| 1.4.1.3.8 | Perform reflectivity tests for quality assurance - vertical extrusions | Complete | 30d | 12Jul07 28Dec07 | 12Jul07 28Dec07 | None | | None | | 1.4.3.5.7[SS] | 1.4.1.3.15[FS] |
| 1.4.1.3.9 | Investigate additional QA equipment | Complete | 143d | 30May07 28Dec07 | 30May07 28Dec07 | None | | None | | 1.4.3.4.5.10[SS] | 1.4.1.3.16[FS]; 1.4.1.3.10[SS+20d] |
| 1.4.1.3.10 | Purchase additional QA equipment | Complete | 122d | 27Jun07 28Dec07 | 27Jun07 28Dec07 | None | | None | | 1.4.1.3.9[SS+20d] | 1.4.1.3.11[SS+20d]; 1.4.1.3.17[FS] |
| 1.4.1.3.11 | Perform QA on prototype extrusions | Complete | 99d | 26Jul07 28Dec07 | 26Jul07 28Dec07 | None | | None | | 1.4.1.3.10[SS+20d]; 1.4.3.4.5.10[SS] | 1.4.5.1[FS]; 1.4.1.3.18[FS] |
| 1.4.1.3.12 | Determine frequency and type of mechanical tests done at extruder for QC - Part 2 | Complete | 191d | 27Jul09 22Jan10 | 02Feb09 29Oct09 | None | | None | | 2.10.9.7[FS]; 1.4.1.3.1[FS] | 1.4.1.3.13[SS] |
| 1.4.1.3.13 | Develop/purchase equipment for QC tests at extruder - Part 2 | Complete | 148d | 01Dec08 22Jan10 | 02Feb09 28Aug09 | None | | None | | 2.10.9.7[FS]; 1.4.1.3.12[SS]; 1.4.1.3.2[FS] | |
| 1.4.1.3.14 | Perform mechanical tests for quality assurance - vertical extrusions - Part 2 | Complete | 170d | 12Jan09 08Oct09 | 02Feb09 30Sep09 | None | | None | | 1.4.1.3.5[FS]; 2.10.9.7[FS] | |
| 1.4.1.3.15 | Perform reflectivity tests for quality assurance - vertical extrusions - Part 2 | Complete | 70d | 17Aug09 02Feb10 | 02Feb09 08May09 | None | | None | | 2.10.9.7[FS]; 1.4.1.3.8[FS] | |
| 1.4.1.3.16 | Investigate additional QA equipment - Part 2 | Complete | 127d | 07Apr09 15Jan10 | 02Feb09 30Jul09 | None | | None | | 2.10.9.7[FS]; 1.4.1.3.9[FS] | 1.4.1.3.17[SS+20d] |
| 1.4.1.3.17 | Purchase additional QA equipment - Part 2 | Complete | 148d | 20Jul09 15Jan10 | 02Mar09 28Sep09 | None | | None | | 1.4.1.3.10[FS]; 2.10.9.7[FS]; 1.4.1.3.16[SS+20d] | 1.4.1.3.18[SS+20d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.1.3.18 | Perform QA on prototype extrusions - Part 2 | Complete | 191d | 01Jun09 02Feb10 | 30Mar09 30Dec09 | None | | None | | 1.4.1.3.17[SS+20d]; 1.4.1.3.11[FS]; 2.10.9.7[FS] | |
| 1.4.1.4 | PVC Resin Tests | Complete | 50d | 01May07 11Jul07 | 01May07 11Jul07 | None | | None | | | |
| 1.4.1.4.1 | Define raw material tests for acceptance | Complete | 50d | 01May07 11Jul07 | 01May07 11Jul07 | None | | None | | | 1.4.1.4.2[SS] |
| 1.4.1.4.2 | Perform tests to characterize raw material | Complete | 50d | 01May07 11Jul07 | 01May07 11Jul07 | None | | None | | 1.4.1.4.1[SS]; 1.4.2.2.2.1.3[SS] | |
| 1.4.2 | Raw Materials | Complete | 1552d | 03Oct05 06Dec11 | 01May07 23Sep09 | None | | None | | | |
| 1.4.2.2 | PVC Material Development | Complete | 462d | 03Oct05 03Aug07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.2.2.2 | Custom PVC Development | Complete | 414d | 12Dec05 03Aug07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.2.2.2.1 | Custom PVC Development - ANL | Complete | 358d | 12Dec05 15May07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.2.2.2.1.5 | Work with vendors to develop custom PVC compounds - 2HFY07 | Complete | 106d | 01May07 15May07 | 01May07 28Sep07 | None | | None | | 1.4.2.2.2.1.4[FS] | |
| 1.4.2.2.2.1.8 | Evaluate PVC compound studies - 2HFY07 | Complete | 106d | 01May07 15May07 | 01May07 28Sep07 | None | | None | | 1.4.2.2.2.1.7[FS] | |
| 1.4.2.2.2.2 | Custom PVC Development - FNAL | Complete | 337d | 20Jan06 21May07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.2.2.2.2.3 | Work with consultant and lab to develop custom PVC - 2HFY07 | Complete | 106d | 01May07 08May07 | 01May07 28Sep07 | None | | None | | 1.4.2.2.2.2.2[FS] | |
| 1.4.2.2.2.2.6 | Issue PO's to selected vendors - 2HFY07 | Complete | 106d | 01May07 21May07 | 01May07 28Sep07 | None | | None | | 1.4.2.2.2.2.5[FS] | |
| 1.4.2.2.2.2.9 | Evaluate PVC compound studies - 2HFY07 | Complete | 106d | 01May07 21May07 | 01May07 28Sep07 | None | | None | | 1.4.2.2.2.2.8[FS] | |
| 1.4.2.2.2.4 | Prototype 16-cell PVC vertical extrusion compound specified | Complete | 0 | 03Aug07 03Aug07 | 01Aug07 01Aug07 | None | | None | | 1.4.2.2.2.2.8[FS]; 1.4.2.2.2.3[FS] | 1.4.2.4.1.1[FF] |
| 1.4.2.3 | Procurement of Raw Material for Prototype 16-Cell Horizontal Extrusions | Complete | 302d | 17Mar06 29May07 | 01May07 29May07 | None | | None | | | |
| 1.4.2.3.2 | Procurement of Raw Material for Prototype 16-Cell Horizontal Extrusions - FNAL | Complete | 20d | 01May07 29May07 | 01May07 29May07 | None | | None | | | |
| 1.4.2.3.2.1 | Prepare purchase order | Complete | 5d | 01May07 21May07 | 01May07 07May07 | None | | None | | 1.4.2.3.1.3[FS]; 1.4.2.2.2.3[FS] | 1.4.2.3.2.2[FS] |
| 1.4.2.3.2.2 | PO for raw PVC resin for 16-cell horizontal extrusions released | Complete | 0 | 21May07 21May07 | 08May07 08May07 | None | | None | | 1.4.2.3.2.1[FS] | 1.4.2.3.2.3[FS] |
| 1.4.2.3.2.3 | Produce raw PVC resin | Complete | 15d | 21May07 29May07 | 08May07 29May07 | None | | None | | 1.4.2.3.2.2[FS] | 1.4.3.4.5.10[SS+15d] |
| 1.4.2.4 | Procurement of Raw Material for Prototype 16-Cell Vertical Extrusions | Complete | 45d | 31Jul07 02Oct07 | 31Jul07 08Oct07 | None | | None | | | |
| 1.4.2.4.1 | Procurement of Raw Material for Prototype 16-Cell Vertical Extrusions - ANL | Complete | 44d | 31Jul07 01Oct07 | 31Jul07 01Aug07 | None | | None | | | |
| 1.4.2.4.1.1 | Develop RFP for 16-cell vertical extrusions (obsolete task) | Complete | 1d | 31Jul07 01Aug07 | 31Jul07 01Aug07 | None | | None | | 1.4.2.3.1.1[FS]; 1.4.2.2.2.4[FF] | 1.4.2.4.1.2[FS]; 1.4.2.4.1.3[FS] |
| 1.4.2.4.1.2 | RFP issued for raw PVC resin (obsolete task) | Complete | 0 | 01Aug07 01Aug07 | 01Aug07 01Aug07 | None | | None | | 1.4.2.4.1.1[FS] | |
| 1.4.2.4.1.3 | Review proposals (obsolete task) | Complete | 1d | 01Oct07 01Oct07 | 01Aug07 01Aug07 | None | | None | | 1.4.2.4.1.1[FS] | |
| 1.4.2.4.2 | Procurement of Raw Material for Prototype 16-Cell Vertical Extrusions - FNAL | Complete | 37d | 10Aug07 02Oct07 | 27Aug07 08Oct07 | None | | None | | | |
| 1.4.2.4.2.1 | Prepare purchase order | Complete | 10d | 10Aug07 18Sep07 | 27Aug07 10Sep07 | None | | None | | | 1.4.2.4.2.2[FS] |
| 1.4.2.4.2.2 | PO for raw PVC resin for 16-cell vertical extrusions released | Complete | 0 | 18Sep07 18Sep07 | 11Sep07 11Sep07 | None | | None | | 1.4.2.4.2.1[FS] | 1.4.2.4.2.3[FS] |
| 1.4.2.4.2.3 | Produce raw PVC resin | Complete | 20d | 18Sep07 02Oct07 | 11Sep07 08Oct07 | None | | None | | 1.4.2.4.2.2[FS] | 1.4.2.5.1[FS+20d]; 1.4.3.5.11[SS+15d] |
| 1.4.2.5 | Procurement of Raw Material for Additional 16-Cell Horizontal Extrusions | Complete | 66d | 20Oct09 28Jan10 | 02Feb09 06Mar09 | None | | None | | | |
| 1.4.2.5.1 | Prepare purchase order | Complete | 10d | 20Oct09 26Oct09 | 02Feb09 13Feb09 | None | | None | | 1.4.2.4.2.3[FS+20d]; 2.10.9.7[FS] | 1.4.2.5.2[FS] |
| 1.4.2.5.2 | PO for raw PVC resin for 16-cell horizontal extrusions released | Complete | 0 | 26Oct09 26Oct09 | 16Feb09 16Feb09 | None | | None | | 1.4.2.5.1[FS] | 1.4.2.5.3[FS] |
| 1.4.2.5.3 | Produce raw PVC resin | Complete | 15d | 16Nov09 28Jan10 | 16Feb09 06Mar09 | None | | None | | 1.4.2.5.2[FS] | 1.4.3.6.2[SS+15d]; 1.4.2.6.1[FS+20d] |
| 1.4.2.6 | Procurement of Raw Material for Additional 16-Cell Vertical Extrusions | Complete | 34d | 09Jun09 27Jul09 | 06Apr09 08May09 | None | | None | | | |
| 1.4.2.6.1 | Prepare purchase order | Complete | 10d | 09Jun09 15Jun09 | 06Apr09 17Apr09 | None | | None | | 1.4.2.5.3[FS+20d] | 1.4.2.6.2[FS] |
| 1.4.2.6.2 | PO for raw PVC resin for 16-cell vertical extrusions released | Complete | 0 | 15Jun09 15Jun09 | 20Apr09 20Apr09 | None | | None | | 1.4.2.6.1[FS] | 1.4.2.6.3[FS] |
| 1.4.2.6.3 | Produce raw PVC resin | Complete | 15d | 14Jul09 27Jul09 | 20Apr09 08May09 | None | | None | | 1.4.2.6.2[FS] | 1.4.3.7.2[SS+15d] |
| 1.4.2.7 | Final Documentation | Complete | 40d | 06Jul10 06Dec11 | 29Jul09 23Sep09 | None | | None | | 1.4.3.7.3[FS] | |
| 1.4.3 | Extrusions | Complete | 1086d | 03Oct05 02Feb10 | 01May07 28Jul09 | None | | None | | | |
| 1.4.3.4 | 16-cell Horizontal (thin-wall) Extrusion Prototypes | Complete | 1081d | 10Oct05 02Feb10 | 01May07 06Mar09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.3.4.5 | Horizontal Extrusion Fabrication | Complete | 1046d | 30Nov05 02Feb10 | 01May07 06Mar09 | None | | None | | | |
| 1.4.3.4.5.7 | Adjust die - 2HFY07 | Complete | 130d | 01May07 07Nov07 | 01May07 11May07 | None | | None | | 1.4.3.4.5.6[FS] | 1.4.3.4.5.10[FS] |
| 1.4.3.4.5.8 | Finalize resin compound for horizontal extrusion prototypes | Complete | 5d | 01May07 07May07 | 01May07 07May07 | None | | None | | 1.4.3.4.5.5[FS] | 1.4.3.4.5.9[FS] |
| 1.4.3.4.5.9 | 16-cell horizontal extrusion prototypes specifications completed | Complete | 0 | 07May07 07May07 | 07May07 07May07 | None | | None | | 1.4.3.4.5.6[FS]; 1.4.3.4.5.8[FS] | 1.4.3.4.5.10[FS]; 1.5.2.1.1.9[FF+10d] |
| 1.4.3.4.5.10 | Fabricate remaining extrusions | Complete | 89d | 30May07 28Dec07 | 30May07 28Dec07 | None | | None | | 1.4.3.4.5.9[FS]; 1.4.3.4.5.5[FS]; 1.4.3.4.5.7[FS]; 1.4.2.3.2.3[SS+15d] | 1.4.1.3.9[SS]; 1.4.3.4.5.12[FS]; 1.4.1.3.11[SS] |
| 1.4.3.4.5.11 | 16-cell horizontal extrusions for IPND completed | Complete | 0 | 12Jun07 12Jun07 | 12Jun07 12Jun07 | None | | None | | | 1.5.7.3.6[FS]; 1.4.3.5.6[FS] |
| 1.4.3.4.5.12 | Fabricate remaining extrusions - Part 2 | Complete | 25d | 01Feb10 02Feb10 | 02Feb09 06Mar09 | None | | None | | 1.4.3.4.5.10[FS]; 2.10.9.7[FS] | |
| 1.4.3.5 | 16-cell Vertical (thick-wall) Extrusion Prototypes | Complete | 321d | 05Sep06 13Dec07 | 13Jun07 01Nov07 | None | | None | | | |
| 1.4.3.5.6 | Modify die for vertical inserts | Complete | 20d | 20Jun07 28Jun07 | 13Jun07 11Jul07 | None | | None | | 1.4.3.5.5[FS]; 1.4.3.4.5.11[FS] | |
| 1.4.3.5.7 | Fabricate test extrusions | Complete | 125d | 28Jun07 08Nov07 | 12Jul07 04Oct07 | None | | None | | | 1.4.3.5.9[FS]; 1.4.1.3.8[SS]; 1.4.1.3.5[SS]; 1.4.3.5.8[SS] |
| 1.4.3.5.8 | Adjust die | Complete | 125d | 12Jul07 05Nov07 | 12Jul07 04Oct07 | None | | None | | 1.4.3.5.7[SS] | 1.4.3.5.10[FS] |
| 1.4.3.5.9 | Finalize resin compound for vertical extrusion prototypes | Complete | 5d | 01Aug07 03Aug07 | 05Oct07 11Oct07 | None | | None | | 1.4.3.5.7[FS] | 1.4.3.5.10[FS] |
| 1.4.3.5.10 | 16-cell vertical extrusion prototypes specifications completed | Complete | 0 | 01Oct07 01Oct07 | 11Oct07 11Oct07 | None | | None | | 1.4.3.5.9[FS]; 1.4.3.5.8[FS] | 1.4.3.5.11[FS] |
| 1.4.3.5.11 | Fabricate remaining extrusions | Complete | 15d | 10Dec07 13Dec07 | 12Oct07 01Nov07 | None | | None | | 1.4.3.5.10[FS]; 1.4.2.4.2.3[SS+15d] | 1.4.3.5.12[FS] |
| 1.4.3.5.12 | 16-cell vertical extrusions for IPND completed | Complete | 0 | 13Dec07 13Dec07 | 01Nov07 01Nov07 | None | | None | | 1.4.3.5.11[FS] | 1.4.3.6.1[FS]; 1.5.7.3.6[FF+25d] |
| 1.4.3.6 | Additional 16-cell Horizontal Extrusions | Complete | 28d | 02Nov09 11Dec09 | 02Feb09 08May09 | None | | None | | | |
| 1.4.3.6.1 | Swap die inserts | Complete | 5d | 02Nov09 03Nov09 | 02Feb09 06Feb09 | None | | None | | 1.4.3.5.12[FS]; 2.10.9.7[FS] | 1.4.3.6.2[FS] |
| 1.4.3.6.2 | Fabricate test extrusions to adjust die | Complete | 40d | 03Nov09 04Nov09 | 09Mar09 01May09 | None | | None | | 1.4.2.5.3[SS+15d]; 1.4.3.6.1[FS] | 1.4.3.6.3[FS] |
| 1.4.3.6.3 | Fabricate additional horizontal test extrusions | Complete | 5d | 07Dec09 11Dec09 | 04May09 08May09 | None | | None | | 1.4.3.6.2[FS] | 1.4.3.7.1[FS+5d] |
| 1.4.3.7 | Additional 16-cell Vertical Extrusions | Complete | 64d | 01May09 31Jul09 | 18May09 28Jul09 | None | | None | | | |
| 1.4.3.7.1 | Swap die inserts | Complete | 5d | 01Jun09 05Jun09 | 18May09 22May09 | None | | None | | 1.4.3.6.3[FS+5d] | 1.4.3.7.2[FS] |
| 1.4.3.7.2 | Fabricate test extrusions to adjust die | Complete | 40d | 01May09 31Jul09 | 26May09 21Jul09 | None | | None | | 1.4.2.6.3[SS+15d]; 1.4.3.7.1[FS] | 1.4.3.7.3[FS] |
| 1.4.3.7.3 | Fabricate additional vertical test extrusions | Complete | 5d | 27Jul09 31Jul09 | 22Jul09 28Jul09 | None | | None | | 1.4.3.7.2[FS] | 2.5.3.3.3.1[FS]; 1.4.2.7[FS]; 2.4.3.1.2.5[FS]; 2.4.3.1.1.5[FS]; 2.5.3.3.3.2[FS] |
| 1.4.4 | Shipping & Handling | Complete | 1287d | 03Jan06 16Feb11 | 01May07 08May09 | None | | None | | | |
| 1.4.4.4 | Build preproduction prototype pallet system - 2HFY07 | Complete | 64d | 01May07 28Jun07 | 01May07 31Jul07 | None | | None | | 1.4.4.3[FS] | |
| 1.4.4.6 | Test preproduction prototype pallet system - 2HFY07 | Complete | 74d | 01May07 14Aug07 | 01May07 14Aug07 | None | | None | | 1.4.4.5[FS] | 1.4.4.7[FS] |
| 1.4.4.7 | Finalize preproduction prototype pallet system design | Complete | 10d | 02Oct07 17Oct07 | 15Aug07 28Aug07 | None | | None | | 1.4.4.6[FS] | 1.4.4.8[FF] |
| 1.4.4.8 | Document shipping and handling plan | Complete | 156d | 07May07 28Dec07 | 07May07 28Dec07 | None | | None | | 1.4.4.1[FS]; 1.4.4.7[FF] | 1.4.4.15[FS] |
| 1.4.4.10 | Design preproduction motion system - 2HFY07 | Complete | 106d | 01May07 14Aug07 | 01May07 28Sep07 | None | | None | | 1.4.4.9[FS] | |
| 1.4.4.12 | Build and test preproduction motion system | Complete | 133d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.4.4.11[FS] | 1.4.4.16[FS] |
| 1.4.4.13 | Finalize design of preproduction motion system | Complete | 10d | 02Mar09 15Apr10 | 30Mar09 10Apr09 | None | | None | | 1.4.4.16[FS]; 1.4.4.17[FS] | 1.4.4.14[FF] |
| 1.4.4.14 | Document shipping and handling system design for production | Complete | 20d | 12May09 16Feb11 | 16Mar09 10Apr09 | None | | None | | 1.4.4.13[FF] | |
| 1.4.4.15 | Document shipping and handling plan - Part 2 | Complete | 64d | 28May09 11Aug10 | 02Feb09 30Apr09 | None | | None | | 2.10.9.7[FS]; 1.4.4.8[FS] | |
| 1.4.4.16 | Build and test preproduction motion system - Part 2 | Complete | 40d | 14May09 01Jul10 | 02Feb09 27Mar09 | None | | None | | 1.4.4.12[FS]; 2.10.9.7[FS] | 1.4.4.13[FS]; 1.4.4.17[SS] |
| 1.4.4.17 | Build caster jack motion system | Complete | 40d | 27Apr09 15Apr10 | 16Mar09 08May09 | None | | None | | 1.4.4.16[SS] | 1.4.4.13[FS] |
| 1.4.5 | Quality Assurance Hardware | Complete | 168d | 01Jun09 02Feb10 | 02Feb09 22May09 | None | | None | | | |
| 1.4.5.1 | Adapt QA hardware for preproduction | Complete | 80d | 04Jan10 28Jan10 | 02Feb09 22May09 | None | | None | | 1.4.1.3.11[FS]; 2.10.9.7[FS] | 2.4.2.1.5[FS]; 1.4.5.2[SS] |
| 1.4.5.2 | Purchase new QA hardware for preproduction | Complete | 80d | 01Jun09 02Feb10 | 02Feb09 22May09 | None | | None | | 1.4.5.1[SS] | |
| 1.4.6 | Management - R&D Phase | Complete | 1552d | 03Oct05 06Dec11 | 01May07 28Dec07 | None | | None | | | |
| 1.4.6.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Oct06 | None | | | |
| 1.4.6.2.2 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.4.6.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.6.2.1.1[FS] | 1.4.6.3.1[FS] |
| 1.4.6.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.6.2.1.2[FS] | 1.4.6.3.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.4.6.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.6.2.1.3[FS] | 1.4.6.3.3[FS] |
| 1.4.6.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.4.6.2.1.4[FS] | 1.4.6.3.4[FS] |
| 1.4.6.3 | FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | | |
| 1.4.6.3.1 | Labor | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.4.6.2.2.1[FS] | |
| 1.4.6.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.4.6.2.2.2[FS] | |
| 1.4.6.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.4.6.2.2.3[FS] | |
| 1.4.6.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.4.6.2.2.4[FS] | |
| 1.4.6.5 | Post CD-1 PVC Extrusion R&D Cost Account | Complete | 106d | 01May07 06Dec11 | 01May07 28Sep07 | None | | None | | | |
| 1.5 | PVC Module R&D | Complete | 1255d | 03Oct05 30Sep10 | 01May07 04Jun10 | None | | None | | | |
| 1.5.2 | End Seal R&D | Complete | 1151d | 03Jan06 30Jul10 | 01May07 12Nov09 | None | | None | | | |
| 1.5.2.1 | Fiber Manifold R&D | Complete | 1003d | 03Jan06 29Dec09 | 01May07 26Mar09 | None | | None | | | |
| 1.5.2.1.1 | Fiber Manifold Component R&D | Complete | 1003d | 03Jan06 29Dec09 | 01May07 26Mar09 | None | | None | | | |
| 1.5.2.1.1.9 | Finalize integration prototype design - 2 | Complete | 19d | 01May07 25May07 | 01May07 25May07 | None | | None | | 1.5.2.1.1.8[FS]; 1.4.3.4.5.9[FF+10d]; 1.5.3.7[FF] | 1.5.2.1.1.10.6[FS-5d]; 1.5.9.1[FS]; 1.5.2.1.1.10.3[FS] |
| 1.5.2.1.1.10 | Integration Prototype Manifold Manufacturing | Complete | 29d | 01May07 11Jun07 | 01May07 18Jun07 | None | | None | | | |
| 1.5.2.1.1.10.1 | Manufacture snout | Complete | 9d | 01May07 11May07 | 01May07 11May07 | None | | None | | 1.5.2.1.1.8[FS] | 1.5.7.3.1.1[FS+20d]; 1.5.2.1.1.11[FS+5d] |
| 1.5.2.1.1.10.2 | Manufacture manifold covers | Complete | 5d | 01May07 07May07 | 01May07 07May07 | None | | None | | 1.5.2.1.1.8[FS] | 1.5.7.3.1.2[FS+10d]; 1.5.2.1.1.11[FS+5d] |
| 1.5.2.1.1.10.3 | Manufacture fill tubes | Complete | 10d | 29May07 11Jun07 | 29May07 11Jun07 | None | | None | | 1.5.2.1.1.9[FS] | 1.5.7.3.1.3[FS]; 1.5.2.1.1.11[FS+5d] |
| 1.5.2.1.1.10.4 | Manufacture side and center seals | Complete | 22d | 01May07 31May07 | 01May07 31May07 | None | | None | | 1.5.2.1.1.8[FS] | 1.5.7.3.1.4[FS+15d]; 1.5.2.1.1.11[FS+5d] |
| 1.5.2.1.1.10.5 | Fiber raceways | Complete | 29d | 01May07 11Jun07 | 01May07 11Jun07 | None | | None | | 1.5.2.1.1.8[FS] | 1.5.7.3.1.5[FS]; 1.5.2.1.1.11[FS+5d] |
| 1.5.2.1.1.10.6 | Fiber cover | Complete | 20d | 01May07 09May07 | 21May07 18Jun07 | None | | None | | 1.5.2.1.1.9[FS-5d] | 1.5.2.1.1.11[FS+5d]; 1.5.7.3.1.6[FS] |
| 1.5.2.1.1.11 | Test integration prototype manifolds | Complete | 10d | 09May07 29Jun07 | 26Jun07 10Jul07 | None | | None | | 1.5.2.1.1.10.6[FS+5d]; 1.5.2.1.1.10.5[FS+5d]; 1.5.2.3.2[FS]; 1.5.2.1.1.10.3[FS+5d]; 1.5.2.1.1.10.1[FS+5d]; 1.5.2.1.1.10.4[FS+5d]; 1.5.2.1.1.10.2[FS+5d] | 1.5.2.1.1.12[FS] |
| 1.5.2.1.1.12 | Review design | Complete | 5d | 11Jul07 17Jul07 | 11Jul07 17Jul07 | None | | None | | 1.5.2.1.1.11[FS] | 1.5.2.1.1.13[FS] |
| 1.5.2.1.1.13 | Finalize design of preproduction prototype (for IPND) | Complete | 71d | 18Jul07 28Dec07 | 18Jul07 28Dec07 | None | | None | | 1.5.2.1.1.12[FS] | 1.5.2.1.1.15[FS] |
| 1.5.2.1.1.14 | Preproduction prototype manifold design (for IPND) completed | Complete | 0 | 29Sep09 29Sep09 | 26Mar09 26Mar09 | None | | None | | 1.5.2.1.1.15[FS] | |
| 1.5.2.1.1.15 | Finalize design of preproduction prototype (for IPND) - Part 2 | Complete | 39d | 01Aug08 29Dec09 | 02Feb09 26Mar09 | None | | None | | 1.5.2.1.1.13[FS]; 2.10.9.7[FS] | 1.5.2.1.1.14[FS] |
| 1.5.2.2 | End Plate R&D | Complete | 394d | 03Jan06 25Jul07 | 01May07 30Jul07 | None | | None | | | |
| 1.5.2.2.11 | Review design | Complete | 5d | 01May07 08Jun07 | 01May07 07May07 | None | | None | | 1.5.2.2.10[FS] | 1.5.2.2.12[FS] |
| 1.5.2.2.12 | Finalize design of preproduction prototype (for IPND) | Complete | 58d | 20Jun07 25Jul07 | 08May07 30Jul07 | None | | None | | 1.5.2.2.11[FS] | 1.5.2.2.13[FS] |
| 1.5.2.2.13 | Design of preproduction prototype bottom plate (for IPND) completed | Complete | 0 | 25Jul07 25Jul07 | 30Jul07 30Jul07 | None | | None | | 1.5.2.2.12[FS] | 1.5.7.3.3.3[FS]; 1.5.7.3.3.1[FS] |
| 1.5.2.3 | Joining Technology R&D | Complete | 1151d | 03Jan06 30Jul10 | 01May07 12Nov09 | None | | None | | | |
| 1.5.2.3.6 | Mechanical lifetime tests of joining systems | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.5.2.3.3[FS] | 1.5.2.3.9[FS] |
| 1.5.2.3.7 | Chemical lifetime tests of joining systems | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.5.2.3.3[FS] | 1.5.2.3.10[FS] |
| 1.5.2.3.8 | Document lifetime tests | Complete | 10d | 01Jul10 30Jul10 | 30Oct09 12Nov09 | None | | None | | 1.5.2.3.9[FS]; 1.5.2.3.10[FS] | |
| 1.5.2.3.9 | Mechanical lifetime tests of joining systems - Part 2 | Complete | 191d | 02Sep08 30Jul10 | 02Feb09 29Oct09 | None | | None | | 2.10.9.7[FS]; 1.5.2.3.6[FS] | 2.5.3.3.5[FS]; 1.5.2.3.8[FS] |
| 1.5.2.3.10 | Chemical lifetime tests of joining systems - Part 2 | Complete | 191d | 02Sep08 30Jul10 | 02Feb09 29Oct09 | None | | None | | 2.10.9.7[FS]; 1.5.2.3.7[FS] | 2.5.3.3.5[FS]; 1.5.2.3.8[FS] |
| 1.5.3 | Photo Detector Interface R&D | Complete | 396d | 01Feb06 24Aug07 | 01May07 24Aug07 | None | | None | | | |
| 1.5.3.7 | Design integration prototype | Complete | 14d | 11Jun07 28Jun07 | 01May07 18May07 | None | | None | | 1.5.3.6[FS] | 1.5.2.1.1.9[FF]; 1.5.3.8[FS] |
| 1.5.3.8 | Review design | Complete | 1d | 28Jun07 29Jun07 | 21May07 21May07 | None | | None | | 1.5.3.7[FS] | 1.5.3.9[FS]; 1.5.7.3.5[FS] |
| 1.5.3.9 | Finalize design of preproduction prototype (for IPND) | Complete | 5d | 20Aug07 24Aug07 | 20Aug07 24Aug07 | None | | None | | 1.5.3.8[FS] | 1.5.3.10[FS] |
| 1.5.3.10 | Design of preproduction prototype photodetector interface (for IPND) completed | Complete | 0 | 24Aug07 24Aug07 | 24Aug07 24Aug07 | None | | None | | 1.5.3.9[FS] | 1.5.7.3.5[FS] |
| 1.5.4 | Module Factory R&D | Complete | 997d | 03Jan06 17Dec09 | 01May07 30Oct09 | None | | None | | | |
| 1.5.4.2 | Factory Material Handling, Tooling, & Fixtures R&D | Complete | 935d | 15Feb06 30Oct09 | 01May07 10Apr09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.5.4.2.6 | Develop pre-production prototype extrusion fiber-stringing machine | Complete | 120d | 01May07 14Dec07 | 01May07 18Oct07 | None | | None | | 1.5.4.2.5[FS] | 1.5.4.2.7[FS] |
| 1.5.4.2.7 | Prototype extrusion fiber-stringing machine for IPND ready to operate | Complete | 0 | 18Oct07 18Oct07 | 18Oct07 18Oct07 | None | | None | | 1.5.4.2.6[FS] | 1.5.7.1.3[FF]; 1.5.7.1.5[FF] |
| 1.5.4.2.11 | Develop end seal and manifold gluing machine | Complete | 230d | 01Jun07 30Oct09 | 01May07 11Jul07 | None | | None | | 1.5.4.1.6[FS] | 1.5.4.2.12[FS]; 1.5.7.1.3[SS] |
| 1.5.4.2.12 | Prototype gluing machine for IPND ready to operate | Complete | 0 | 30Oct09 30Oct09 | 01May08 01May08 | None | | None | | 1.5.4.2.11[FS]; 1.5.4.2.13[FS] | 1.5.7.3.6[FS] |
| 1.5.4.2.13 | Additional end seal and manifold gluing machine | Complete | 40d | 15Jun09 28Sep09 | 16Feb09 10Apr09 | None | | None | | 2.10.9.7[FS] | 1.5.4.2.12[FS] |
| 1.5.4.3 | Fabricate FHEP modules | Complete | 86d | 06Jul09 17Dec09 | 01Jul09 30Oct09 | None | | None | | | 1.5.7.3.4[FS]; 1.5.7.3.6[FS]; 1.5.7.3.2[FS] |
| 1.5.4.4 | Fabricate FHEP modules for grouting test | Complete | 21d | 25Sep09 29Sep09 | 01Sep09 30Sep09 | None | | None | | | 1.8.8.2.12[FS] |
| 1.5.5 | Quality Assurance and Quality Control Methods Development | Complete | 1121d | 15Feb06 30Jul10 | 01May07 30Nov09 | None | | None | | | |
| 1.5.5.1 | Develop methods for extrusion quality checkout | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.4.3.4.5.4[FS] | 1.5.5.10[FS] |
| 1.5.5.3 | Develop methods for pressure testing - 2 | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.5.5.2[FS] | 1.5.5.11[FS]; 1.5.5.15[FS] |
| 1.5.5.4 | Pressure-testing hardware for IPND production ready to operate | Complete | 0 | 01Feb10 01Feb10 | 30Mar09 30Mar09 | None | | None | | 1.5.5.11[FS]; 1.5.5.15[FS]; 1.5.5.16[FS] | |
| 1.5.5.6 | Develop methods for verifying fiber mapping and fiber continuity | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.5.5.5[FS] | 1.5.5.12[FS] |
| 1.5.5.7 | Fiber mapping and continuity hardware for IPND production ready to operate | Complete | 0 | 26Feb10 26Feb10 | 18Jun09 18Jun09 | None | | None | | 1.5.5.12[FS]; 1.5.5.13[FS] | |
| 1.5.5.8 | Develop methods for assuring fiber-face tolerance | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.5.4.2.10[FS] | 1.5.5.13[FS] |
| 1.5.5.9 | Develop QA tracking system procedures, software and training | Complete | 167d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | | 2.5.3.2.6.8[FS]; 1.5.5.14[FS]; 1.5.5.17[FS] |
| 1.5.5.10 | Develop methods for extrusion quality checkout - Part 2 | Complete | 74d | 10Nov08 17Dec09 | 02Feb09 14May09 | None | | None | | 1.5.5.1[FS]; 2.10.9.7[FS] | 1.5.7.3.6[FS] |
| 1.5.5.11 | Develop methods for pressure testing - 2 - Part 2 | Complete | 41d | 01Aug08 29Dec09 | 02Feb09 30Mar09 | None | | None | | 1.5.5.3[FS]; 2.10.9.7[FS] | 1.5.5.4[FS]; 1.5.5.16[FS] |
| 1.5.5.12 | Develop methods for verifying fiber mapping and fiber continuity - Part 2 | Complete | 42d | 12Mar09 26Feb10 | 02Feb09 31Mar09 | None | | None | | 1.5.5.6[FS]; 2.10.9.7[FS] | 1.5.5.7[FS] |
| 1.5.5.13 | Develop methods for assuring fiber-face tolerance - Part 2 | Complete | 98d | 20May09 26Feb10 | 02Feb09 18Jun09 | None | | None | | 1.5.5.8[FS]; 2.10.9.7[FS] | 1.5.5.7[FS] |
| 1.5.5.14 | Develop QA tracking system procedures, software and training - Part 2 | Complete | 175d | 01Apr08 30Apr10 | 02Feb09 07Oct09 | None | | None | | 2.10.9.7[FS]; 1.5.5.9[FS] | 2.5.3.2.6.8[FS]; 1.5.5.17[FF] |
| 1.5.5.15 | Procure and setup additional leak-checking hardware for IPND | Complete | 40d | 03Jun09 30Oct09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.7[FS]; 1.5.5.3[FS] | 1.5.5.4[FS] |
| 1.5.5.16 | Develop methods for pressure testing - 2 - Part 2 - Continued | Complete | 40d | 09Feb09 30Oct09 | 13Feb09 09Apr09 | None | | None | | 1.5.5.11[FS] | 1.5.5.4[FS] |
| 1.5.5.17 | Develop QA tracking system procedures, software and training - Part 2 - additional | Complete | 89d | 10Mar09 30Jul10 | 02Jan09 07May09 | None | | None | | 1.5.5.14[FF]; 1.5.5.9[FS]; 2.10.9.7[FS] | 2.5.3.2.6.8[FS] |
| 1.5.5.18 | Create full-length functional test modules | Complete | 6d | 23Nov09 17Dec09 | 19Nov09 30Nov09 | None | | None | | | 1.5.7.3.6[FS] |
| 1.5.6 | Module Shipping and Storage R&D | Complete | 104d | 01Aug07 28Dec07 | 01Aug07 28Dec07 | None | | None | | | 1.5.11[FS] |
| 1.5.7 | Integration Prototype Detector (IPND) Modules | Complete | 1054d | 08Mar06 17May10 | 30May07 04Jun10 | None | | None | | | |
| 1.5.7.1 | Factory Preparation for Integration Prototype Near Detector Production | Complete | 998d | 08Mar06 26Feb10 | 30May07 02Jun09 | None | | None | | | |
| 1.5.7.1.3 | Install and setup additional infrastructure and factory machines | Complete | 144d | 30May07 28Dec07 | 30May07 28Dec07 | None | | None | | 1.5.4.2.11[SS]; 1.5.4.2.9[SS]; 1.5.4.2.7[FF]; 1.5.4.2.8[SS]; 1.5.7.1.2[FS] | 1.5.7.1.5[FS] |
| 1.5.7.1.4 | Develop initial versions of machine operating procedures | Complete | 10d | 03Aug09 26Feb10 | 19May09 02Jun09 | None | | None | | 1.5.7.1.5[FF]; 1.5.7.1.6[FF] | 1.5.7.3.6[FS-7d] |
| 1.5.7.1.5 | Install and setup additional infrastructure and factory machines - Part 2 | Complete | 86d | 01Aug08 26Feb10 | 02Feb09 02Jun09 | None | | None | | 2.10.9.7[FS]; 1.5.7.1.3[FS]; 1.5.4.2.7[FF] | 1.5.7.3.6[FS-4d]; 1.5.7.1.4[FF]; 1.5.7.1.6[FF] |
| 1.5.7.1.6 | Install and setup additional infrastructure and factory machines - Part 2 - continued | Complete | 60d | 09Feb09 26Feb10 | 16Feb09 08May09 | None | | None | | 1.5.7.1.5[FF] | 1.5.7.3.6[FS-7d]; 1.5.7.1.4[FF] |
| 1.5.7.3 | Integration Prototype Near Detector (IPND) Module Manufacturing | Complete | 695d | 09Aug07 17May10 | 09Aug07 04Jun10 | None | | None | | | |
| 1.5.7.3.1 | IPND Manifold Components | Complete | 350d | 03Nov08 30Mar10 | 02Feb09 13Nov09 | None | | None | | | |
| 1.5.7.3.1.1 | Manufacture snout | Complete | 65d | 03Aug09 18Mar10 | 02Feb09 01May09 | None | | None | | 1.5.2.1.1.10.1[FS+20d]; 2.10.9.7[FS] | 1.5.7.3.1.8[FF]; 1.5.7.3.2[FF-35d] |
| 1.5.7.3.1.2 | Manufacture manifold covers | Complete | 110d | 03Nov08 26Feb10 | 02Feb09 07Jul09 | None | | None | | 1.5.2.1.1.10.2[FS+10d]; 2.10.9.7[FS] | 1.5.7.3.2[FF-50d] |
| 1.5.7.3.1.3 | Manufacture fill tubes | Complete | 30d | 17Sep09 07Dec09 | 02Feb09 13Mar09 | None | | None | | 1.5.2.1.1.10.3[FS]; 2.10.9.7[FS] | 1.5.7.3.2[FF-10d]; 1.5.7.3.1.7[SS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.5.7.3.1.4 | Manufacture side and center seals | Complete | 70d | 03Aug09 02Nov09 | 02Feb09 08May09 | None | | None | | 1.5.2.1.1.10.4[FS+15d]; 2.10.9.7[FS] | 1.5.7.3.2[FS]; 1.5.7.3.3.2[SS] |
| 1.5.7.3.1.5 | Manufacture fiber raceways | Complete | 80d | 17Nov08 30Mar10 | 02Feb09 22May09 | None | | None | | 1.5.2.1.1.10.5[FS]; 2.10.9.7[FS] | 1.5.7.3.2[FF-43d] |
| 1.5.7.3.1.6 | Manufacture fiber covers | Complete | 50d | 14Aug09 20Nov09 | 02Feb09 10Apr09 | None | | None | | 1.5.2.1.1.10.6[FS]; 2.10.9.7[FS] | 1.5.7.3.2[FS] |
| 1.5.7.3.1.7 | Manufacture fill tube manifolds | Complete | 50d | 02Nov09 17Nov09 | 02Feb09 10Apr09 | None | | None | | 1.5.7.3.1.3[SS]; 2.10.9.7[FS] | 1.5.7.3.2[FS] |
| 1.5.7.3.1.8 | Manufacture snouts - additional | Complete | 45d | 31Aug09 02Nov09 | 14Sep09 13Nov09 | None | | None | | 1.5.7.3.1.1[FF] | 1.5.7.3.2[FF-35d] |
| 1.5.7.3.2 | Assemble and test IPND manifolds | Complete | 10d | 15Dec09 29Dec09 | 08Jul09 21Jul09 | None | | None | | 1.5.7.3.1.6[FS]; 1.5.7.3.1.4[FS]; 1.5.7.3.1.1[FF-35d]; 1.5.4.3[FS]; 1.5.7.3.1.5[FF-43d]; 1.5.7.3.1.3[FF-10d]; 1.5.7.3.1.7[FS]; 1.5.7.3.1.8[FF-35d]; 1.5.7.3.1.2[FF-50d] | 1.5.8.1[FS]; 1.5.7.3.6[SS] |
| 1.5.7.3.3 | IPND End Plate Components | Complete | 591d | 09Aug07 15Dec09 | 09Aug07 13Nov09 | None | | None | | | |
| 1.5.7.3.3.1 | Manufacture IPND end plates | Complete | 85d | 11May09 15Dec09 | 02Feb09 01Jun09 | None | | None | | 1.5.2.2.13[FS]; 2.10.9.7[FS] | 1.5.7.3.4[FF] |
| 1.5.7.3.3.2 | Manufacture side and center seals | Complete | 49d | 09Aug07 28Dec07 | 09Aug07 28Dec07 | None | | None | | 1.5.2.2.9[FS]; 1.5.7.3.1.4[SS] | 1.5.7.3.3.4[FS] |
| 1.5.7.3.3.3 | Manufacture fiber retaining rings | Complete | 40d | 03Aug09 13Nov09 | 02Feb09 27Mar09 | None | | None | | 1.5.2.2.13[FS]; 2.10.9.7[FS] | 1.5.7.3.4[FS] |
| 1.5.7.3.3.4 | Manufacture side and center seals - Part 2 | Complete | 21d | 12May09 02Nov09 | 02Feb09 02Mar09 | None | | None | | 1.5.7.3.3.2[FS]; 2.10.9.7[FS] | 1.5.7.3.3.5[FF]; 1.5.7.3.4[FS] |
| 1.5.7.3.3.5 | Manufacture side and center seals - Part 2 - additional | Complete | 45d | 31Aug09 02Nov09 | 14Sep09 13Nov09 | None | | None | | 1.5.7.3.3.4[FF] | 1.5.7.3.4[FS] |
| 1.5.7.3.4 | Assemble and test preproduction prototype (IPND) end plates and seals | Complete | 10d | 23Oct09 29Dec09 | 02Jun09 15Jun09 | None | | None | | 1.5.7.3.3.3[FS]; 1.5.4.3[FS]; 1.5.7.3.3.5[FS]; 1.5.7.3.3.1[FF]; 1.5.7.3.3.4[FS] | 1.5.7.3.6[FF]; 1.5.8.3[FS] |
| 1.5.7.3.5 | Manufacture preproduction prototype (IPND) optical connectors | Complete | 105d | 24Aug07 04Nov09 | 27Aug07 30Jan08 | None | | None | | 1.5.3.10[FS]; 1.5.3.8[FS] | 1.5.7.3.6[FS] |
| 1.5.7.3.6 | Produce IPND modules | Complete | 60d | 15Jan10 17May10 | 11Jan10 05Apr10 | None | | None | | 1.3.5.3[FF+5d]; 1.3.5.3[SS+1d]; 1.5.4.2.12[FS]; 1.5.4.3[FS]; 1.5.5.18[FS]; 1.5.7.1.4[FS-7d]; 1.5.7.3.2[SS]; 1.4.3.4.5.11[FS]; 1.5.7.3.5[FS]; 1.4.3.5.12[FF+25d]; 1.5.7.3.4[FF]; 1.5.2.3.3[FS]; 1.5.7.1.5[FS-4d]; 1.5.5.10[FS]; 1.5.7.1.6[FS-7d]; 1.5.4.2.10[FS] | 1.5.7.3.10[SS+20d]; 1.5.7.3.7[SS+20d]; 1.5.9.3[FS]; 1.5.9.1[FF]; 1.5.7.3.9[FS]; 1.8.5.5.6[FF]; 1.5.8.2[FS]; 1.5.8.4[FS]; 1.5.7.3.13[SS]; 2.5.3.3.3.2[FS] |
| 1.5.7.3.7 | IPND modules for first 8-plane segment completed (OBSOLETE) | Complete | 0 | 08Feb10 08Feb10 | 08Feb10 08Feb10 | None | | None | | 1.5.7.3.6[SS+20d] | |
| 1.5.7.3.8 | IPND Block 2 module production completed | Complete | 0 | 06Apr10 06Apr10 | 02Mar10 02Mar10 | None | | None | | 1.5.7.3.11[FS+12d] | 1.5.7.3.10[FS]; 1.5.7.3.12[FS+15d]; 1.8.5.5.6[FS] |
| 1.5.7.3.9 | IPND block 4 module production completed | Complete | 0 | 17May10 17May10 | 04Jun10 04Jun10 | None | | None | | 1.5.7.3.6[FS]; 1.5.7.3.12[FS+15d] | 1.8.5.5.6[FF]; 1.5.11[FF]; 2.5.3.3.3.7[FS+12d] |
| 1.5.7.3.10 | IPND module production review completed | Complete | 0 | 06Apr10 06Apr10 | 14Jan10 14Jan10 | None | | None | | 1.5.7.3.6[SS+20d]; 1.5.7.3.8[FS] | |
| 1.5.7.3.11 | IPND Block 1 module production completed | Complete | 0 | 17Mar10 17Mar10 | 12Feb10 12Feb10 | None | | None | | 1.5.7.3.13[FS+39d] | 1.5.7.3.8[FS+12d]; 1.8.5.5.4[FS] |
| 1.5.7.3.12 | IPND Block 3 module production completed | Complete | 0 | 26Apr10 26Apr10 | 18Mar10 18Mar10 | None | | None | | 1.5.7.3.8[FS+15d] | 1.5.7.3.9[FS+15d] |
| 1.5.7.3.13 | IPND module production started | Complete | 0 | 15Jan10 15Jan10 | 11Jan10 11Jan10 | None | | None | | 1.5.7.3.6[SS] | 1.5.7.3.11[FS+39d] |
| 1.5.8 | Initial Production Module Specifications | Complete | 128d | 01Feb10 30Jul10 | 19Jan10 13Apr10 | None | | None | | | |
| 1.5.8.1 | Document preproduction (IPND) prototype manifold | Complete | 10d | 01Feb10 26Feb10 | 19Jan10 01Feb10 | None | | None | | 1.5.7.3.2[FS] | 1.5.8.2[FS] |
| 1.5.8.2 | Review manifold design | Complete | 10d | 24Feb10 30Jul10 | 31Mar10 13Apr10 | None | | None | | 1.5.7.3.6[FS]; 1.5.8.1[FS] | 2.5.1.1.1[FS] |
| 1.5.8.3 | Document preproduction (IPND) prototype bottom plate | Complete | 10d | 02Feb10 26Feb10 | 22Feb10 05Mar10 | None | | None | | 1.5.7.3.4[FS] | 1.5.8.4[FS] |
| 1.5.8.4 | Review bottom plate design | Complete | 10d | 24Feb10 30Jul10 | 31Mar10 13Apr10 | None | | None | | 1.5.7.3.6[FS]; 1.5.8.3[FS] | 2.5.1.2.1[FS] |
| 1.5.9 | Initial Factory Tooling Specifications | Complete | 241d | 15Oct09 30Sep10 | 18Nov09 27Apr10 | None | | None | | | |
| 1.5.9.1 | Document assembly process, procedures, and training | Complete | 10d | 18Nov09 30Jul10 | 18Nov09 03Dec09 | None | | None | | 1.5.7.3.6[FF]; 1.5.2.1.1.9[FS]; 1.8.3.4[FS] | 1.5.9.2[FS] |
| 1.5.9.2 | Review assembly process, procedures, and training | Complete | 5d | 01Apr10 30Jul10 | 31Mar10 06Apr10 | None | | None | | 1.5.9.1[FS] | 2.5.3.1.11[FS] |
| 1.5.9.3 | Document factory machines and functioning | Complete | 20d | 01Apr10 30Jul10 | 31Mar10 27Apr10 | None | | None | | 1.5.7.3.6[FS] | 1.5.9.4[FS] |
| 1.5.9.4 | Review factory machines and functioning | Complete | 5d | 15Oct09 30Sep10 | 07Jan10 13Jan10 | None | | None | | 1.5.9.3[FS] | 2.5.3.1.11[FS] |
| 1.5.10 | Management - R&D Phase | Complete | 1255d | 03Oct05 30Sep10 | 01May07 29Sep08 | None | | None | | | |
| 1.5.10.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.5.10.2.8 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Apr07 | None | | | |
| 1.5.10.2.8.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.5.10.2.6.1[FS] | 1.5.10.3.1[FS] |
| 1.5.10.2.8.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.5.10.2.6.2[FS] | 1.5.10.3.2[FS] |
| 1.5.10.2.8.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.5.10.2.6.3[FS] | 1.5.10.3.3[FS] |
| 1.5.10.2.8.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.5.10.2.6.4[FS] | 1.5.10.3.4[FS] |
| 1.5.10.3 | FY08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | Not Earlier Than | 01Oct07 | None | | | |
| 1.5.10.3.1 | Labor | Complete | 251d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | None | | None | | 1.5.10.2.8.1[FS] | |
| 1.5.10.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.5.10.2.8.2[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.5.10.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.5.10.2.8.3[FS] | |
| 1.5.10.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.5.10.2.8.4[FS] | |
| 1.5.10.5 | Post CD-1 PVC Module R&D Cost Account | Complete | 106d | 01May07 30Sep10 | 01May07 28Sep07 | None | | None | | | |
| 1.5.11 | Module Shipping and Storage R&D - Part 2 | Complete | 136d | 12Mar09 01Apr10 | 21May09 03Dec09 | None | | None | | 1.5.7.3.9[FF]; 1.5.6[FS]; 2.10.9.7[FS] | |
| 1.6 | Electronics R&D | Complete | 1549d | 03Oct05 01Dec11 | 01May07 15Aug11 | None | | None | | | |
| 1.6.1 | APD Modules | Complete | 1549d | 03Oct05 01Dec11 | 01May07 15Aug11 | None | | None | | | |
| 1.6.1.1 | Prototypes | Complete | 776d | 03Oct05 31Oct08 | 01May07 27Feb09 | None | | None | | | |
| 1.6.1.1.3 | Second Prototype | Complete | 420d | 07Mar07 31Oct08 | 01May07 27Feb09 | None | | None | | | |
| 1.6.1.1.3.3 | Fabricate second housing | Complete | 20d | 01May07 04Jun07 | 01May07 29May07 | None | | None | | 1.6.1.1.3.2[FS] | 1.6.1.1.3.4[FS] |
| 1.6.1.1.3.4 | Assemble housing | Complete | 10d | 04Jun07 14Jun07 | 30May07 12Jun07 | None | | None | | 1.6.1.1.3.3[FS] | 1.6.1.1.3.5[FS] |
| 1.6.1.1.3.5 | Assemble prototype | Complete | 5d | 14Jun07 20Jun07 | 13Jun07 19Jun07 | None | | None | | 1.6.1.1.3.1[FS]; 1.6.1.1.3.4[FS] | 1.6.1.1.3.6[FS] |
| 1.6.1.1.3.6 | Test second prototype | Complete | 25d | 14Jun07 28Jun07 | 20Jun07 25Jul07 | None | | None | | 1.6.1.1.3.5[FS] | 1.6.1.1.3.7[FS] |
| 1.6.1.1.3.7 | APD modules second prototype completed | Complete | 0 | 28Jun07 28Jun07 | 25Jul07 25Jul07 | None | | None | | 1.6.1.1.3.6[FS] | 1.6.1.2.10.1[FS]; 1.6.1.6.1.1[FS]; 1.6.1.1.3.8[FS] |
| 1.6.1.1.3.8 | APD module value engineering - prototype 2 | Complete | 20d | 26Jul07 28Dec07 | 26Jul07 28Dec07 | None | | None | | 1.6.1.1.2.8[FS]; 1.6.1.1.3.7[FS] | 1.6.1.1.3.9[FS] |
| 1.6.1.1.3.9 | APD module value engineering - prototype 2 - Part 2 | Complete | 20d | 01Oct08 31Oct08 | 02Feb09 27Feb09 | None | | None | | 2.10.9.7[FS]; 1.6.1.1.3.8[FS] | 1.6.1.2.12.1[FS] |
| 1.6.1.2 | QA/QC Stations | Complete | 1256d | 01Dec06 01Dec11 | 02Feb09 02Mar10 | None | | None | | | |
| 1.6.1.2.3 | Design - 2 | Complete | 19d | 20Mar09 21Jun09 | 02Feb09 26Feb09 | None | | None | | 1.6.1.2.2[FS]; 2.10.9.7[FS] | 1.6.1.2.4[FS] |
| 1.6.1.2.4 | Manufacture | Complete | 25d | 03Aug09 30Sep10 | 27Feb09 02Apr09 | None | | None | | 1.6.1.2.3[FS] | 1.6.1.2.5[FS] |
| 1.6.1.2.5 | Program | Complete | 50d | 01Mar10 15Nov10 | 03Apr09 12Jun09 | None | | None | | 1.6.1.2.4[FS] | 1.6.1.2.6[FS] |
| 1.6.1.2.6 | Qualify | Complete | 25d | 15Nov10 29Dec10 | 15Jun09 20Jul09 | None | | None | | 1.6.1.2.5[FS] | 1.6.1.2.7[SS]; 1.6.1.2.8[FS] |
| 1.6.1.2.7 | Document | Complete | 25d | 15Jun10 15Feb11 | 15Jun09 20Jul09 | None | | None | | 1.6.1.2.6[SS] | 1.6.1.2.8[FS] |
| 1.6.1.2.8 | QA/QC station ready | Complete | 0 | 29Dec10 29Dec10 | 20Jul09 20Jul09 | None | | None | | 1.6.1.2.7[FS]; 1.6.1.2.6[FS] | 2.6.1.3.1[FS] |
| 1.6.1.2.10 | Quick Tester for Installation | Complete | 1d | 01Dec11 01Dec11 | 02Feb09 22May09 | None | | None | | | |
| 1.6.1.2.10.1 | Design (OBSOLETE) | Complete | 40d | 01Dec11 01Dec11 | 02Feb09 27Mar09 | None | | None | | 1.6.1.1.3.7[FS]; 2.10.9.7[FS] | 1.6.1.2.10.2[FS] |
| 1.6.1.2.10.2 | Build (OBSOLETE) | Complete | 40d | 01Dec11 01Dec11 | 30Mar09 22May09 | None | | None | | 1.6.1.2.10.1[FS] | 1.8.5.7.9[FS] |
| 1.6.1.2.11 | APD QE Test Setup | Complete | 134d | 01Oct08 15Apr09 | 02Feb09 24Apr09 | None | | None | | | |
| 1.6.1.2.11.1 | Design APD QE test procedure | Complete | 20d | 01Oct08 20Nov08 | 02Feb09 27Feb09 | None | | None | | 2.10.9.7[FS]; 1.6.1.1.3.1[FS] | 1.6.1.2.11.2[FS] |
| 1.6.1.2.11.2 | Test prototype APDs | Complete | 20d | 01Dec08 30Dec08 | 02Mar09 27Mar09 | None | | None | | 1.6.1.2.11.1[FS] | 1.6.1.2.11.3[FS] |
| 1.6.1.2.11.3 | Document QE test results | Complete | 20d | 15Jan09 15Apr09 | 30Mar09 24Apr09 | None | | None | | 1.6.1.2.11.2[FS] | 1.6.1.6.1.6[FS] |
| 1.6.1.2.12 | Water Transmission Testing | Complete | 407d | 15Jun09 28Jan11 | 15Apr09 02Mar10 | None | | None | | | |
| 1.6.1.2.12.1 | Design WT test | Complete | 10d | 15Jun09 30Oct09 | 15Apr09 28Apr09 | None | | None | | 1.6.1.1.3.9[FS] | 1.6.1.2.12.2[FS] |
| 1.6.1.2.12.2 | Build WT test | Complete | 10d | 15Dec09 23Dec09 | 29Apr09 12May09 | None | | None | | 1.6.1.2.12.1[FS] | 1.6.1.2.12.3[FS] |
| 1.6.1.2.12.3 | Operate WT test | Complete | 200d | 15Dec09 29Dec10 | 13May09 02Mar10 | None | | None | | 1.6.1.2.12.2[FS] | 1.6.1.2.12.4[SS]; 1.8.5.7.9[FS] |
| 1.6.1.2.12.4 | Document WT test | Complete | 200d | 01Feb10 28Jan11 | 13May09 02Mar10 | None | | None | | 1.6.1.2.12.3[SS] | 1.8.5.7.9[FS] |
| 1.6.1.3 | Water Cooling | Complete | 477d | 01Jun07 24Apr09 | 01May07 08May09 | None | | None | | | |
| 1.6.1.3.1 | Model water flow | Complete | 15d | 01Jun07 14Dec07 | 01May07 21May07 | None | | None | | 1.6.1.1.1[FS] | 1.6.1.3.2[FS] |
| 1.6.1.3.2 | Design test for model | Complete | 10d | 01Dec07 21Dec07 | 22May07 05Jun07 | None | | None | | 1.6.1.3.1[FS] | 1.6.1.3.3[FS] |
| 1.6.1.3.3 | Procure manifolds | Complete | 40d | 11Jun07 13Jul07 | 06Jun07 01Aug07 | None | | None | | 1.6.1.3.2[FS] | 1.6.1.3.5[FS]; 1.6.1.3.4[SS] |
| 1.6.1.3.4 | Procure other components | Complete | 40d | 06Jun07 28Dec07 | 06Jun07 28Dec07 | None | | None | | 1.6.1.3.3[SS] | 1.6.1.3.5[FS] |
| 1.6.1.3.5 | Assemble and test hardware | Complete | 40d | 01May08 16Feb09 | 02Feb09 27Mar09 | None | | None | | 1.6.1.3.3[FS]; 1.6.1.3.4[FS]; 2.10.9.7[FS] | 1.6.1.3.6[FS]; 1.6.1.6.2.1[FS]; 1.6.1.6.2.2[FS] |
| 1.6.1.3.6 | Water cooling value engineering | Complete | 50d | 06Jan09 24Apr09 | 02Mar09 08May09 | None | | None | | 1.6.1.3.5[FS] | 1.6.1.7.3[FS]; 1.6.1.7.4[FS]; 1.6.1.7.1[FS]; 1.6.1.7.5[FS] |
| 1.6.1.4 | Direct Refrigerant Cooling | Complete | 40d | 01May07 26Jun07 | 01May07 26Jun07 | None | | None | | | |
| 1.6.1.4.1 | Develop preliminary design | Complete | 40d | 01May07 26Jun07 | 01May07 26Jun07 | None | | None | | 1.6.1.1.1[FS] | |
| 1.6.1.5 | Electronics Box | Complete | 797d | 19Feb07 20Apr10 | 02Feb09 13Mar09 | None | | None | | | |
| 1.6.1.5.2 | Design electronics box - 2 | Complete | 9d | 01Oct08 31Oct08 | 02Feb09 12Feb09 | None | | None | | 1.6.1.5.1[FS]; 2.10.9.7[FS] | 1.6.1.5.3[FS] |
| 1.6.1.5.3 | Prototype electronics box | Complete | 20d | 03Apr09 24Apr09 | 13Feb09 12Mar09 | None | | None | | 1.6.1.5.2[FS] | 1.6.1.5.4[FS] |
| 1.6.1.5.4 | Qualify electronics box for production | Complete | 1d | 15Apr10 20Apr10 | 13Mar09 13Mar09 | None | | None | | 1.6.1.5.3[FS] | 1.6.2.5.5[FS] |
| 1.6.1.6 | Integration Prototype Detector | Complete | 599d | 16Mar09 29Jul11 | 02Feb09 30Nov10 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6.1.6.1 | Module Production | Complete | 599d | 16Mar09 29Jul11 | 02Feb09 30Nov10 | None | | None | | | |
| 1.6.1.6.1.1 | APD module production for IPND started | Complete | 0 | 08May09 08May09 | 02Feb09 02Feb09 | None | | None | | 1.6.1.1.3.7[FS]; 2.10.9.7[FS] | 1.6.1.6.1.3.1[FS]; 1.6.1.6.1.4[FS]; 1.6.1.6.1.2[FS] |
| 1.6.1.6.1.2 | APD engineering run | Complete | 70d | 08May09 23Aug10 | 02Feb09 28Jul09 | None | | None | | 1.6.1.6.1.1[FS]; 1.6.1.6.1.11[FS]; 2.10.9.7[FS] | 2.6.1.5.1[FS]; 1.6.1.6.1.5[SS+10d] |
| 1.6.1.6.1.3 | Housing Manufacture | Complete | 220d | 16Mar09 29Jan10 | 02Feb09 24Apr09 | None | | None | | | |
| 1.6.1.6.1.3.1 | Design housing manufacturing and test stand | Complete | 20d | 16Mar09 20Dec09 | 02Feb09 27Feb09 | None | | None | | 1.6.1.6.1.1[FS] | 1.6.1.6.1.3.2[FS] |
| 1.6.1.6.1.3.2 | Prototype mold (Obsolete) | Complete | 20d | 04Jan10 29Jan10 | 02Mar09 27Mar09 | None | | None | | 1.6.1.6.1.3.1[FS] | 1.6.1.6.1.3.3[FS] |
| 1.6.1.6.1.3.3 | Pilot fabrication run | Complete | 20d | 16Mar09 20Apr09 | 30Mar09 24Apr09 | None | | None | | 1.6.1.6.1.3.2[FS] | |
| 1.6.1.6.1.4 | Manufacture housing parts | Complete | 30d | 01Jun09 20Aug09 | 02Feb09 13Mar09 | None | | None | | 1.6.1.6.1.1[FS] | 2.6.1.5.3[FS]; 1.6.1.6.1.5[FS] |
| 1.6.1.6.1.5 | Assemble | Complete | 85d | 10Jun09 15Jun10 | 27Apr09 25Aug09 | None | | None | | 1.6.1.6.1.4[FS]; 1.6.1.6.1.2[SS+10d] | 2.6.1.1.2.1[FS]; 2.6.1.5.4[FS]; 2.6.1.1.1.1[FS]; 1.6.1.6.1.6[FF]; 1.6.1.6.1.6[SS+20d] |
| 1.6.1.6.1.6 | Test | Complete | 65d | 15Jun09 15Jun10 | 21Jul09 20Oct09 | None | | None | | 1.6.1.2.11.3[FS]; 1.6.1.6.1.5[FF]; 1.6.1.6.1.5[SS+20d] | 1.6.1.7.6[SS+20d]; 1.6.1.6.1.7[SS+5d]; 2.6.1.5.5[FS]; 1.6.1.6.1.8[FS] |
| 1.6.1.6.1.7 | APD modules for 8-plane segment completed | Complete | 0 | 15Sep09 15Sep09 | 27Jul09 27Jul09 | None | | None | | 1.6.1.6.1.6[SS+5d] | 1.6.1.6.1.9[FS] |
| 1.6.1.6.1.8 | Review | Complete | 3d | 25Jul11 29Jul11 | 21Oct09 23Oct09 | None | | None | | 1.6.1.6.1.6[FS]; 1.6.1.6.1.23[FS-7d] | 1.6.1.6.1.9[FS] |
| 1.6.1.6.1.9 | APD modules for IPND completed (qty=330) | Complete | 0 | 15Oct10 15Oct10 | 23Oct09 23Oct09 | None | | None | | 1.6.1.6.1.8[FS]; 1.6.1.6.1.7[FS]; 1.6.1.6.1.16[FS] | 1.8.5.7.9[FS]; 2.6.1.2.1[FS] |
| 1.6.1.6.1.10 | Receive 20 APDs for evaluation | Complete | 1d | 11Mar10 11Mar10 | 11Mar10 11Mar10 | None | | None | | | 1.6.1.6.1.11[SS] |
| 1.6.1.6.1.11 | Test and evaluate 20 APDs | Complete | 5d | 12Mar10 17Mar10 | 11Mar10 17Mar10 | None | | None | | 1.6.1.6.1.10[SS] | 1.6.5.4.2[FS]; 1.6.1.6.1.2[FS]; 1.6.1.6.1.12[FS] |
| 1.6.1.6.1.12 | Begin APD production at vendor | Complete | 0 | 22Mar10 22Mar10 | 18Mar10 18Mar10 | None | | None | | 1.6.1.6.1.11[FS] | 1.6.1.6.1.13[FS+91d] |
| 1.6.1.6.1.13 | Vendor ships 100 APDs (b1) | Complete | 0 | 29Jul10 29Jul10 | 10Jun10 10Jun10 | None | | None | | 1.6.1.6.1.12[FS+91d] | 1.6.1.6.1.14[FS+5d]; 1.6.1.6.1.19[FS+5d] |
| 1.6.1.6.1.14 | Vendor ships 100 APDs (b2) | Complete | 0 | 05Aug10 05Aug10 | 17Jun10 17Jun10 | None | | None | | 1.6.1.6.1.13[FS+5d] | 1.6.1.6.1.15[FS+10d]; 1.6.1.6.1.21[FS+5d] |
| 1.6.1.6.1.15 | Vendor ships 100 APDs (b3) | Complete | 0 | 12Aug10 12Aug10 | 24Jun10 24Jun10 | None | | None | | 1.6.1.6.1.14[FS+10d] | 1.6.1.6.1.16[FS+5d]; 1.6.1.6.1.22[FS+5d] |
| 1.6.1.6.1.16 | Vendor ships 100 APDs (b4) | Complete | 0 | 01Sep10 01Sep10 | 30Sep10 30Sep10 | None | | None | | 2.6.1.5.1[SS+14d]; 1.6.1.6.1.15[FS+5d] | 1.6.1.6.1.17[FS+5d]; 1.6.1.6.1.23[FS+5d]; 1.6.1.6.1.9[FS]; 2.6.1.5.2[FS] |
| 1.6.1.6.1.17 | Vendor ships 130 APDs (b5) | Complete | 0 | 15Oct10 15Oct10 | 19Nov10 19Nov10 | None | | None | | 2.6.1.5.1[FF]; 1.6.1.6.1.16[FS+5d] | 1.6.1.6.1.24[FS+5d]; 1.6.1.6.1.18[FS] |
| 1.6.1.6.1.18 | Near Detector APD Production Complete | Complete | 0 | 15Oct10 15Oct10 | 19Nov10 19Nov10 | None | | None | | 2.6.1.5.1[FS]; 1.6.1.6.1.17[FS] | |
| 1.6.1.6.1.19 | Assembly and testing of APDs Started | Complete | 0 | 12Aug10 12Aug10 | 18Jun10 18Jun10 | None | | None | | 1.6.1.6.1.13[FS+5d] | 1.6.1.6.3[SS]; 1.6.1.6.1.20[FS+5d] |
| 1.6.1.6.1.20 | Assembly and testing of 100 APDs completed (b1) | Complete | 0 | 23Aug10 23Aug10 | 24Jun10 24Jun10 | None | | None | | 1.6.1.6.1.19[FS+5d] | 1.6.1.6.1.21[FS+5d] |
| 1.6.1.6.1.21 | Assembly and testing of 100 APDs completed (b2) | Complete | 0 | 30Aug10 30Aug10 | 01Jul10 01Jul10 | None | | None | | 1.6.1.6.1.20[FS+5d]; 1.6.1.6.1.14[FS+5d] | 1.8.5.7.14.14[FS]; 1.6.1.6.1.22[FS+5d] |
| 1.6.1.6.1.22 | Assembly and testing of 100 APDs completed (b3) | Complete | 0 | 15Sep10 15Sep10 | 09Jul10 09Jul10 | None | | None | | 1.6.1.6.1.15[FS+5d]; 1.6.1.6.1.21[FS+5d] | 2.6.1.3.0.1[FS]; 2.6.1.3.0.2[FS]; 1.8.5.7.14.15[FS]; 2.6.1.5.2[FS]; 1.6.1.6.1.23[FS+5d] |
| 1.6.1.6.1.23 | Assembly and testing of 100 APDs completed (b4) | Complete | 0 | 15Oct10 15Oct10 | 07Oct10 07Oct10 | None | | None | | 1.6.1.6.1.16[FS+5d]; 1.6.1.6.1.22[FS+5d] | 1.6.1.6.1.8[FS-7d]; 1.6.1.6.1.24[FS+5d] |
| 1.6.1.6.1.24 | Assembly and testing of 130 APDs completed (b5) | Complete | 0 | 15Oct10 15Oct10 | 30Nov10 30Nov10 | None | | None | | 1.6.1.6.1.17[FS+5d]; 1.6.1.6.1.23[FS+5d] | 1.8.5.7.14.16[FS]; 1.8.5.7.14.18[FS]; 2.6.1.5.6[FS] |
| 1.6.1.6.2 | Water Cooling | Complete | 147d | 20Apr10 15Nov10 | 30Mar09 22Jun09 | None | | None | | | |
| 1.6.1.6.2.1 | Procure manifolds | Complete | 40d | 20Apr10 15Oct10 | 30Mar09 22May09 | None | | None | | 1.6.1.3.5[FS] | 2.6.3.5.1.1.34[FS]; 1.6.1.6.2.3[FS] |
| 1.6.1.6.2.2 | Procure other components | Complete | 40d | 20Apr10 15Nov10 | 30Mar09 22May09 | None | | None | | 1.6.1.3.5[FS] | 1.6.1.6.2.3[FS] |
| 1.6.1.6.2.3 | Assemble and test hardware | Complete | 20d | 20Oct10 15Nov10 | 26May09 22Jun09 | None | | None | | 2.6.3.5.1.1.34[FS]; 1.6.1.6.2.1[FS]; 1.6.1.6.2.2[FS] | |
| 1.6.1.6.3 | IPND electronics installation | Complete | 20d | 04Oct10 20Oct10 | 18Oct10 12Nov10 | None | | None | | 1.6.1.6.1.19[SS] | |
| 1.6.1.7 | Air-Cooling R and D | Complete | 532d | 01May09 13Jun11 | 01May09 15Aug11 | None | | None | | | |
| 1.6.1.7.1 | Perform thermal tests with sheetmetal part | Complete | 20d | 01May09 29May09 | 01May09 29May09 | None | | None | | 1.6.1.3.6[FS] | 1.6.1.7.2.1[FS] |
| 1.6.1.7.2 | Machined Heat Sink Prototype | Complete | 96d | 15May09 30Sep09 | 01Jun09 27Jul09 | None | | None | | | |
| 1.6.1.7.2.1 | Design air-cooled heat sink | Complete | 20d | 15May09 15Jun09 | 01Jun09 26Jun09 | None | | None | | 1.6.1.7.1[FS] | 1.6.1.7.2.2[FS]; 1.6.1.7.2.3[FS] |
| 1.6.1.7.2.2 | Machine heat sink | Complete | 20d | 15Jun09 30Sep09 | 29Jun09 27Jul09 | None | | None | | 1.6.1.7.2.1[FS] | 1.6.1.7.6[FS] |
| 1.6.1.7.2.3 | Modify design for machining | Complete | 20d | 29May09 31Aug09 | 29Jun09 27Jul09 | None | | None | | 1.6.1.7.2.1[FS] | 1.6.1.7.6[FS] |
| 1.6.1.7.3 | Purchase test TE coolers | Complete | 20d | 15Jul09 30Jul09 | 01May09 29May09 | None | | None | | 1.6.1.3.6[FS] | 1.6.1.7.6[FS] |
| 1.6.1.7.4 | Produce rapid proto snouts | Complete | 10d | 20May09 29May09 | 01May09 14May09 | None | | None | | 1.6.1.3.6[FS] | 1.6.1.7.6[FS] |
| 1.6.1.7.5 | Produce dummy carrier boards | Complete | 20d | 15Jul09 30Jul09 | 01May09 29May09 | None | | None | | 1.6.1.3.6[FS] | 1.6.1.7.6[FS] |
| 1.6.1.7.6 | Test thermal properties | Complete | 20d | 03Aug09 15Jan10 | 05Nov09 04Dec09 | None | | None | | 1.6.1.7.2.2[FS]; 1.6.1.6.1.6[SS+20d]; 1.6.1.7.5[FS]; 1.6.1.7.4[FS]; 1.6.1.7.2.3[FS]; 1.6.1.7.3[FS] | 1.6.1.7.7[FS] |
| 1.6.1.7.7 | Evaluate performance (OBSOLETE) | Complete | 1d | 01Jun11 01Jun11 | 07Dec09 18Dec09 | None | | None | | 1.6.1.7.6[FS] | 1.6.1.7.8.1[FS]; 1.6.1.7.8.2.1.3[FS]; 1.6.1.7.8.2.1.1[FS]; 1.6.1.7.8.2.1.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6.1.7.8 | IPND Parts Production - Air-Cooling (OBSOLETE) | Complete | 8d | 02Jun11 13Jun11 | 21Dec09 15Aug11 | None | | None | | | |
| 1.6.1.7.8.1 | Purchase TE coolers (OBSOLETE) | Complete | 1d | 02Jun11 02Jun11 | 21Dec09 16Apr10 | None | | None | | 1.6.1.7.7[FS] | 1.8.5.7.9[FS] |
| 1.6.1.7.8.2 | Die Cast Heat Sink Production (OBSOLETE) | Complete | 8d | 02Jun11 13Jun11 | 21Dec09 15Aug11 | None | | None | | | |
| 1.6.1.7.8.2.1 | Die Cast Design - Feature Finalization (OBSOLETE) | Complete | 1d | 02Jun11 02Jun11 | 21Dec09 14Jan10 | None | | None | | | |
| 1.6.1.7.8.2.1.1 | Finalize features of cover attachments (OBSOLETE) | Complete | 1d | 02Jun11 02Jun11 | 21Dec09 14Jan10 | None | | None | | 1.6.1.7.7[FS]; 1.7.6[SS] | 1.6.1.7.8.2.2[FS] |
| 1.6.1.7.8.2.1.2 | Finalize features of dessicant attachment (OBSOLETE) | Complete | 1d | 02Jun11 02Jun11 | 21Dec09 07Jan10 | None | | None | | 1.6.1.7.7[FS]; 1.7.6[SS] | 1.6.1.7.8.2.2[FS] |
| 1.6.1.7.8.2.1.3 | Optimze fins (OBSOLETE) | Complete | 1d | 02Jun11 02Jun11 | 21Dec09 14Jan10 | None | | None | | 1.6.1.7.7[FS]; 1.7.6[SS] | 1.6.1.7.8.2.2[FS] |
| 1.6.1.7.8.2.2 | Review design (OBSOLETE) | Complete | 1d | 03Jun11 03Jun11 | 15Jan10 22Jan10 | None | | None | | 1.6.1.7.8.2.1.3[FS]; 1.6.1.7.8.2.1.2[FS]; 1.6.1.7.8.2.1.1[FS] | 1.6.1.7.8.2.3[FS] |
| 1.6.1.7.8.2.3 | Quote design (OBSOLETE) | Complete | 1d | 06Jun11 06Jun11 | 25Jan10 05Feb10 | None | | None | | 1.6.1.7.8.2.2[FS] | 1.6.1.7.8.2.4[FS] |
| 1.6.1.7.8.2.4 | Modify design due to quote feedback (OBSOLETE) | Complete | 1d | 07Jun11 07Jun11 | 29Apr11 12May11 | None | | None | | 1.6.1.7.8.2.3[FS] | 1.6.1.7.8.2.5[FS] |
| 1.6.1.7.8.2.5 | Place order (OBSOLETE) | Complete | 1d | 08Jun11 08Jun11 | 13May11 26May11 | None | | None | | 1.6.1.7.8.2.4[FS] | 1.6.1.7.8.2.6[FS] |
| 1.6.1.7.8.2.6 | Produce and test die (OBSOLETE) | Complete | 1d | 09Jun11 09Jun11 | 27May11 24Jun11 | None | | None | | 1.6.1.7.8.2.5[FS] | 1.6.1.7.8.2.7[FS] |
| 1.6.1.7.8.2.7 | Produce samples (OBSOLETE) | Complete | 1d | 10Jun11 10Jun11 | 27Jun11 01Jul11 | None | | None | | 1.6.1.7.8.2.6[FS] | 1.6.1.7.8.2.8[FS] |
| 1.6.1.7.8.2.8 | Produce required box covers (OBSOLETE) | Complete | 1d | 13Jun11 13Jun11 | 05Jul11 15Aug11 | None | | None | | 1.6.1.7.8.2.7[FS] | |
| 1.6.2 | FEB | Complete | 1326d | 03Oct05 14Jan11 | 15Nov07 08Oct10 | None | | None | | | |
| 1.6.2.1 | ASIC | Complete | 1326d | 03Oct05 14Jan11 | 03Dec07 07Oct09 | None | | None | | | |
| 1.6.2.1.2 | ASIC Prototype II | Complete | 952d | 02Apr07 14Jan11 | 03Dec07 28Apr09 | None | | None | | | |
| 1.6.2.1.2.2 | Fabricate | Complete | 40d | 03Dec07 30Jan08 | 03Dec07 30Jan08 | None | | None | | 1.6.2.1.2.1[FS] | 1.6.2.1.2.3[FS] |
| 1.6.2.1.2.3 | Test | Complete | 40d | 01May08 14Jan11 | 02Feb09 27Mar09 | None | | None | | 1.6.2.1.2.2[FS]; 2.10.9.7[FS] | 1.6.2.4.4[FS] |
| 1.6.2.1.2.4 | Documentation | Complete | 18d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.6.2.1.2.1[FS] | 1.6.2.1.2.6[FS] |
| 1.6.2.1.2.5 | Administration | Complete | 18d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.6.2.1.2.1[FS] | 1.6.2.1.2.7[FS] |
| 1.6.2.1.2.6 | Documentation - Part 2 | Complete | 62d | 02Sep08 14Jan11 | 02Feb09 28Apr09 | None | | None | | 2.10.9.7[FS]; 1.6.2.1.2.4[FS] | |
| 1.6.2.1.2.7 | Administration - Part 2 | Complete | 62d | 02Sep08 14Jan11 | 02Feb09 28Apr09 | None | | None | | 2.10.9.7[FS]; 1.6.2.1.2.5[FS] | 1.6.2.1.3.1[FS] |
| 1.6.2.1.3 | Near Detector ASIC Prototype (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 29Apr09 01May09 | None | | None | | | |
| 1.6.2.1.3.1 | Design (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 29Apr09 29Apr09 | None | | None | | 1.6.2.1.2.7[FS] | 1.6.2.1.3.2[FS]; 1.6.2.1.3.5[SS]; 1.6.2.1.3.4[SS] |
| 1.6.2.1.3.2 | Fabricate (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 30Apr09 30Apr09 | None | | None | | 1.6.2.1.3.1[FS] | 1.6.2.1.3.3[FS] |
| 1.6.2.1.3.3 | Test (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 01May09 01May09 | None | | None | | 1.6.2.1.3.2[FS] | |
| 1.6.2.1.3.4 | Documentation (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 29Apr09 29Apr09 | None | | None | | 1.6.2.1.3.1[SS] | |
| 1.6.2.1.3.5 | Administration (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 29Apr09 29Apr09 | None | | None | | 1.6.2.1.3.1[SS] | |
| 1.6.2.1.4 | IPND ASIC Production | Complete | 304d | 01Sep09 15Nov10 | 16Jun09 07Oct09 | None | | None | | | |
| 1.6.2.1.4.1 | Fabricate | Complete | 40d | 01Sep09 24Nov09 | 16Jun09 11Aug09 | None | | None | | | 1.6.2.1.4.2[FS] |
| 1.6.2.1.4.2 | Test | Complete | 40d | 01Dec09 15Nov10 | 12Aug09 07Oct09 | None | | None | | 1.6.2.1.4.1[FS] | 1.6.2.4.4[FS] |
| 1.6.2.4 | FEB Prototype III | Complete | 554d | 15Nov07 04Feb10 | 15Nov07 26Jun09 | None | | None | | | |
| 1.6.2.4.1 | Design | Complete | 14d | 15Nov07 28Dec07 | 15Nov07 28Dec07 | None | | None | | 1.6.2.3[FS] | 1.6.2.4.13[FS] |
| 1.6.2.4.2 | Fabricate PCB | Complete | 20d | 01Aug08 29Aug08 | 23Feb09 20Mar09 | None | | None | | 1.6.2.4.13[FS] | 1.6.2.4.4[FS] |
| 1.6.2.4.3 | Procure parts | Complete | 20d | 02Sep08 30Dec08 | 23Feb09 20Mar09 | None | | None | | 1.6.2.4.13[FS] | 1.6.2.4.4[FS] |
| 1.6.2.4.4 | Assemble | Complete | 10d | 06Jan09 15Jan09 | 30Mar09 10Apr09 | None | | None | | 1.6.2.4.2[FS]; 1.6.2.4.3[FS]; 1.6.2.1.4.2[FS]; 1.6.2.1.2.3[FS] | 1.6.2.4.6[FS]; 1.6.2.4.7[FS] |
| 1.6.2.4.5 | Develop firmware | Complete | 39d | 26Feb09 04Jan10 | 02Feb09 26Mar09 | None | | None | | 1.6.2.4.13[SS] | 1.6.2.4.7[FS] |
| 1.6.2.4.6 | Develop software | Complete | 20d | 15May09 30Jul09 | 13Apr09 08May09 | None | | None | | 1.6.2.4.4[FS] | 1.6.2.4.7[FS] |
| 1.6.2.4.7 | Test | Complete | 25d | 26Feb09 14Aug09 | 11May09 15Jun09 | None | | None | | 1.6.2.4.6[FS]; 1.6.2.4.4[FS]; 1.6.2.4.5[FS] | 1.6.2.4.11[FS]; 1.6.2.4.12[FS] |
| 1.6.2.4.8 | Documentation | Complete | 104d | 26Feb09 14Aug09 | 02Feb09 26Jun09 | None | | None | | 1.6.2.4.13[SS] | |
| 1.6.2.4.9 | Administration | Complete | 104d | 26Feb09 14Aug09 | 02Feb09 26Jun09 | None | | None | | 1.6.2.4.13[SS] | |
| 1.6.2.4.11 | Review FEB prototype III | Complete | 1d | 02Feb10 04Feb10 | 16Jun09 16Jun09 | None | | None | | 1.6.2.4.7[FS] | 1.6.2.4.12[FS] |
| 1.6.2.4.12 | FEB prototype III released to DAQ | Complete | 0 | 15Jan10 15Jan10 | 16Jun09 16Jun09 | None | | None | | 1.6.2.4.11[FS]; 1.6.2.4.7[FS] | 2.6.2.1.1.1[FS] |
| 1.6.2.4.13 | Design - Part 2 | Complete | 15d | 26Feb09 30Mar09 | 02Feb09 20Feb09 | None | | None | | 2.10.9.7[FS]; 1.6.2.4.1[FS] | 1.6.2.4.5[SS]; 1.6.2.4.3[FS]; 1.6.2.4.2[FS]; 1.6.2.4.9[SS]; 1.6.2.4.8[SS] |
| 1.6.2.5 | FEB Prototype IV (IPND) | Complete | 242d | 01Dec09 15Nov10 | 29Jun09 27May10 | None | | None | | | |
| 1.6.2.5.1 | FEB modules for IPND started | Complete | 0 | 01Dec09 01Dec09 | 29Jun09 29Jun09 | None | | None | | | 1.6.2.5.2[SS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6.2.5.2 | Design | Complete | 50d | 01Dec09 15Mar10 | 29Jun09 08Sep09 | None | | None | | 1.6.2.5.1[SS] | 1.6.2.5.3[FS]; 1.6.2.5.7[SS]; 1.6.2.5.12[SS]; 1.6.2.5.11[SS]; 1.6.2.5.4[FS] |
| 1.6.2.5.3 | Fabricate PCB | Complete | 20d | 26Feb10 30Jun10 | 12Feb10 11Mar10 | None | | None | | 1.6.2.5.2[FS] | 1.6.2.5.6[FS] |
| 1.6.2.5.4 | Procure parts | Complete | 15d | 01Feb10 26Feb10 | 12Feb10 04Mar10 | None | | None | | 1.6.2.5.2[FS] | 1.6.2.5.6[FS]; 1.6.2.5.5[SS] |
| 1.6.2.5.5 | Produce electronics boxes | Complete | 15d | 01Jun10 30Jun10 | 12Feb10 04Mar10 | None | | None | | 1.6.2.5.4[SS]; 1.6.1.5.4[FS] | 1.6.2.5.9[FS] |
| 1.6.2.5.6 | Assemble | Complete | 15d | 15Apr10 20Oct10 | 12Mar10 01Apr10 | None | | None | | 1.6.2.5.3[FS]; 1.6.2.5.4[FS] | 1.6.2.5.8[FS]; 1.6.2.5.9[FS]; 1.6.2.5.15[SS+2d] |
| 1.6.2.5.7 | Develop firmware | Complete | 40d | 01Apr10 15Nov10 | 29Jun09 24Aug09 | None | | None | | 1.6.2.5.2[SS] | 1.6.2.5.9[FS] |
| 1.6.2.5.8 | Develop software | Complete | 20d | 10Sep10 22Sep10 | 18Nov09 17Dec09 | None | | None | | 1.6.2.5.6[FS] | 1.6.2.5.9[FS] |
| 1.6.2.5.9 | Test | Complete | 20d | 22Sep10 20Oct10 | 30Apr10 27May10 | None | | None | | 1.6.2.5.6[FS]; 1.6.2.5.5[FS]; 1.6.2.5.8[FS]; 1.6.2.5.7[FS]; 1.6.2.5.15[FS] | 2.6.2.1.5[FS]; 2.6.2.1.6[FS]; 2.6.2.1.4[FS]; 2.6.2.5.1.2.1[FS]; 2.6.2.5.1.2.2[FS]; 2.6.2.6[FS]; 2.6.2.5.1.1[FS]; 2.6.2.1.1.3.1.1.1[FS]; 2.6.2.1.7.1[FS]; 1.6.2.5.14[SS+5d]; 1.6.2.5.13[FS]; 2.6.2.2.4[FS]; 1.8.5.7.14.11[SS+10d]; 1.8.5.7.14.12[SS+15d]; 1.8.5.7.14.12[FF] |
| 1.6.2.5.11 | Documentation | Complete | 150d | 01Feb10 30Sep10 | 29Jun09 04Feb10 | None | | None | | 1.6.2.5.2[SS] | |
| 1.6.2.5.12 | Administration | Complete | 150d | 01Feb10 30Sep10 | 29Jun09 04Feb10 | None | | None | | 1.6.2.5.2[SS] | |
| 1.6.2.5.13 | FEB modules for ND/S completed | Complete | 0 | 20Oct10 20Oct10 | 27May10 27May10 | None | | None | | 1.6.2.5.14[FS]; 1.6.2.5.9[FS] | 2.6.2.8.1[SS]; 1.8.5.7.9[FS] |
| 1.6.2.5.14 | Block 1 FEB modules for ND/S tested | Complete | 0 | 30Sep10 30Sep10 | 06May10 06May10 | None | | None | | 1.6.2.5.9[SS+5d] | 1.6.2.5.13[FS]; 1.8.5.7.14.3[FS] |
| 1.6.2.5.15 | FEB v4 production prototypes available | Complete | 0 | 15Sep10 15Sep10 | 15Mar10 15Mar10 | None | | None | | 1.6.2.5.6[SS+2d] | 1.6.2.5.9[FS] |
| 1.6.2.6 | FEB Prototype V (Near Detector) (Obsolete) | Complete | 6d | 01Oct10 08Oct10 | 01Oct10 08Oct10 | None | | None | | | |
| 1.6.2.6.1 | Design (Obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | | 1.6.2.6.8[SS]; 1.6.2.6.2[FS]; 1.6.2.6.5[SS]; 1.6.2.6.3[FS]; 1.6.2.6.9[SS] |
| 1.6.2.6.2 | Fabricate PCB (Obsolete) | Complete | 1d | 04Oct10 04Oct10 | 04Oct10 04Oct10 | None | | None | | 1.6.2.6.1[FS] | 1.6.2.6.4[FS] |
| 1.6.2.6.3 | Procure parts (Obsolete) | Complete | 1d | 04Oct10 04Oct10 | 04Oct10 04Oct10 | None | | None | | 1.6.2.6.1[FS] | 1.6.2.6.4[FS] |
| 1.6.2.6.4 | Assemble (Obsolete) | Complete | 1d | 05Oct10 05Oct10 | 05Oct10 05Oct10 | None | | None | | 1.6.2.6.2[FS]; 1.6.2.6.3[FS] | 1.6.2.6.7[FS]; 1.6.2.6.6[FS] |
| 1.6.2.6.5 | Develop firmware (Obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | 1.6.2.6.1[SS] | 1.6.2.6.7[FS] |
| 1.6.2.6.6 | Develop software (Obsolete) | Complete | 1d | 06Oct10 06Oct10 | 06Oct10 06Oct10 | None | | None | | 1.6.2.6.4[FS] | 1.6.2.6.7[FS] |
| 1.6.2.6.7 | Test (Obsolete) | Complete | 1d | 07Oct10 07Oct10 | 07Oct10 07Oct10 | None | | None | | 1.6.2.6.4[FS]; 1.6.2.6.5[FS]; 1.6.2.6.6[FS] | 1.6.2.6.10[FS]; 1.6.2.6.11[FS] |
| 1.6.2.6.8 | Documentation (Obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | 1.6.2.6.1[SS] | |
| 1.6.2.6.9 | Administration (Obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | 1.6.2.6.1[SS] | |
| 1.6.2.6.10 | Review near detector FEB prototype (Obsolete) | Complete | 1d | 08Oct10 08Oct10 | 08Oct10 08Oct10 | None | | None | | 1.6.2.6.7[FS] | 1.6.2.6.11[FS] |
| 1.6.2.6.11 | FEB prototype V for near detector released to DAQ (Obsolete) | Complete | 0 | 08Oct10 08Oct10 | 08Oct10 08Oct10 | None | | None | | 1.6.2.6.10[FS]; 1.6.2.6.7[FS] | 2.6.2.3.1[FS] |
| 1.6.3 | Power Distribution | Complete | 1315d | 03Oct05 29Dec10 | 01May07 12Aug10 | None | | None | | | |
| 1.6.3.1 | Low Voltage Power Supplies | Complete | 1095d | 03Oct05 15Feb10 | 02Feb09 15May09 | None | | None | | | |
| 1.6.3.1.3 | Procure LV power supply | Complete | 60d | 16Mar09 15May09 | 02Feb09 24Apr09 | None | | None | | 1.6.3.3.1[FS]; 1.6.3.1.1[FS]; 1.6.3.1.2[FS]; 2.10.9.7[FS] | 1.6.3.5.1.4[SS]; 1.6.3.1.4[FS] |
| 1.6.3.1.4 | Test LV power supply | Complete | 15d | 15Jul09 15Feb10 | 27Apr09 15May09 | None | | None | | 1.6.3.1.3[FS] | 1.6.3.5.3.2[FS]; 1.6.3.5.1.3[FS] |
| 1.6.3.2 | High Voltage Power Supply | Complete | 1095d | 03Oct05 15Feb10 | 02Feb09 15May09 | None | | None | | | |
| 1.6.3.2.3 | Procure HV power supply | Complete | 60d | 16Mar09 15May09 | 02Feb09 24Apr09 | None | | None | | 1.6.3.2.1[FS]; 1.6.3.2.2[FS]; 2.10.9.7[FS] | 1.6.3.3.8[SS]; 1.6.3.5.2.2[SS]; 1.6.3.2.4[FS] |
| 1.6.3.2.4 | Test HV power supply | Complete | 15d | 04Jan10 15Feb10 | 27Apr09 15May09 | None | | None | | 1.6.3.2.3[FS] | 1.6.3.5.3.4[FS]; 1.6.3.5.2.1[FS] |
| 1.6.3.3 | Power Cables | Complete | 957d | 03Apr06 26Jan10 | 02Feb09 24Apr09 | None | | None | | | |
| 1.6.3.3.2 | Procure PDB to FEB cable | Complete | 25d | 04Jan10 26Jan10 | 02Feb09 06Mar09 | None | | None | | 1.6.3.3.1[FS]; 2.10.9.7[FS] | |
| 1.6.3.3.4 | Procure LV supply to PDB cables | Complete | 20d | 04Jan10 26Jan10 | 02Feb09 27Feb09 | None | | None | | 1.6.3.3.3[FS]; 2.10.9.7[FS] | |
| 1.6.3.3.6 | Procure LV supply sense cables | Complete | 20d | 04Jan10 26Jan10 | 02Feb09 27Feb09 | None | | None | | 1.6.3.3.5[FS]; 2.10.9.7[FS] | |
| 1.6.3.3.8 | Procure HV supply to PDB cables | Complete | 30d | 04Jan10 26Jan10 | 02Feb09 13Mar09 | None | | None | | 1.6.3.2.3[SS]; 1.6.3.3.7[FS] | |
| 1.6.3.3.10 | Procure PDB to DCM cable | Complete | 20d | 04Jan10 26Jan10 | 30Mar09 24Apr09 | None | | None | | 1.6.3.3.9[FS]; 1.6.3.4.6[FS] | |
| 1.6.3.4 | Power Distribution Box | Complete | 972d | 01Jun06 15Apr10 | 01Jun07 11Jun10 | None | | None | | | |
| 1.6.3.4.3 | Fabricate and test first PDB prototype | Complete | 40d | 01Jun07 27Jul07 | 01Jun07 27Jul07 | None | | None | | 1.6.3.4.2[FS] | 1.6.3.4.6[FS]; 1.6.3.4.4[FS]; 1.6.3.4.5[FS] |
| 1.6.3.4.4 | Design review for first PDB prototype | Complete | 2d | 15Nov07 16Nov07 | 17Sep07 18Sep07 | None | | None | | 1.6.3.4.3[FS] | 1.6.3.4.5[FS] |
| 1.6.3.4.5 | Design second PDB prototype | Complete | 30d | 26Nov07 28Dec07 | 19Sep07 30Oct07 | None | | None | | 1.6.3.4.4[FS]; 1.6.3.4.2[FS]; 1.6.3.4.1[FS]; 1.6.3.4.3[FS] | 1.6.3.4.6[FS] |
| 1.6.3.4.6 | Fabricate and test second PDB prototype | Complete | 40d | 02Sep08 20Nov09 | 02Feb09 27Mar09 | None | | None | | 1.6.3.4.3[FS]; 1.6.3.4.5[FS]; 2.10.9.7[FS] | 1.6.3.4.7[FS]; 1.6.3.3.10[FS]; 1.7.7.3.1.1[FS] |
| 1.6.3.4.7 | Design review for second PDB prototype | Complete | 2d | 01Dec09 15Dec09 | 30Mar09 31Mar09 | None | | None | | 1.6.3.4.6[FS] | 1.6.3.4.8.3[FS]; 1.6.3.4.8.1[FS]; 1.6.3.5.4.2[SS]; 1.6.3.5.4.1[FS]; 1.6.3.5.3.7[SS+20d] |
| 1.6.3.4.8 | PDB - Prototype 3 | Complete | 112d | 02Nov09 15Apr10 | 04Dec09 11Jun10 | None | | None | | | |
| 1.6.3.4.8.1 | Electrical design - PDB v3 | Complete | 60d | 02Nov09 24Nov09 | 04Dec09 04Mar10 | None | | None | | 1.6.3.4.7[FS] | 1.6.3.4.8.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6.3.4.8.2 | Electrical layout - PDB v3 | Complete | 30d | 20Dec09 15Feb10 | 05Mar10 15Apr10 | None | | None | | 1.6.3.4.8.1[FS] | 1.6.3.4.8.4[FS] |
| 1.6.3.4.8.3 | Mechanical design - PDB v3 | Complete | 80d | 02Nov09 24Nov09 | 04Dec09 01Apr10 | None | | None | | 1.6.3.4.7[FS] | 1.6.3.4.8.4[FS] |
| 1.6.3.4.8.4 | Order parts, fabricate components, and test PDB - v3 | Complete | 40d | 04Jan10 15Apr10 | 16Apr10 11Jun10 | None | | None | | 1.6.3.4.8.2[FS]; 1.6.3.4.8.3[FS] | 1.6.3.5.4.1[FS] |
| 1.6.3.5 | IPND Electronics Infrastructure | Complete | 920d | 01May07 29Dec10 | 01May07 12Aug10 | None | | None | | | |
| 1.6.3.5.1 | Low Voltage Power Supplies | Complete | 813d | 15May07 09Aug10 | 15May07 16Sep09 | None | | None | | | |
| 1.6.3.5.1.1 | Specify relay racks | Complete | 15d | 15May07 05Jun07 | 15May07 05Jun07 | None | | None | | 1.6.3.1.2[FS] | 1.6.3.5.1.2[FS] |
| 1.6.3.5.1.2 | Procure relay racks | Complete | 30d | 01Mar10 31Mar10 | 02Feb09 13Mar09 | None | | None | | 1.6.3.5.1.1[FS]; 2.10.9.7[FS] | |
| 1.6.3.5.1.3 | Procure LV power supplies | Complete | 60d | 15Feb10 20May10 | 18May09 11Aug09 | None | | None | | 1.6.3.1.4[FS] | 2.6.3.1.5[FS]; 1.6.3.5.1.6[FS+5d] |
| 1.6.3.5.1.4 | Define LV power supply test procedures | Complete | 5d | 25Mar09 30Mar09 | 02Feb09 06Feb09 | None | | None | | 1.6.3.1.3[SS] | 1.6.3.5.1.6[FS]; 1.6.3.5.1.5[FS]; 1.6.3.5.2.2[SS] |
| 1.6.3.5.1.5 | Set up LV power supply test stand | Complete | 5d | 10Apr09 15Apr09 | 09Feb09 13Feb09 | None | | None | | 1.6.3.5.1.4[FS] | 1.6.3.5.1.6[FS] |
| 1.6.3.5.1.6 | Test LV power supplies | Complete | 20d | 25May10 09Aug10 | 19Aug09 16Sep09 | None | | None | | 1.6.3.5.1.3[FS+5d]; 1.6.3.5.1.4[FS]; 1.6.3.5.1.5[FS] | 1.6.3.5.5[FS] |
| 1.6.3.5.2 | High Voltage Power Supply | Complete | 163d | 04Jan10 23Aug10 | 02Feb09 03May10 | None | | None | | | |
| 1.6.3.5.2.1 | Procure HV power supply | Complete | 60d | 15Feb10 30Jun10 | 18May09 11Aug09 | None | | None | | 1.6.3.2.4[FS] | 1.6.3.5.2.4[FS+5d]; 1.6.3.5.2.5[SS] |
| 1.6.3.5.2.2 | Define HV power supply test procedures | Complete | 5d | 04Jan10 01Mar10 | 02Feb09 06Feb09 | None | | None | | 1.6.3.2.3[SS]; 1.6.3.5.1.4[SS] | 1.6.3.5.2.4[FS]; 1.6.3.5.2.3[FS] |
| 1.6.3.5.2.3 | Set up HV power supply test stand | Complete | 5d | 04Jan10 02Mar10 | 09Feb09 13Feb09 | None | | None | | 1.6.3.5.2.2[FS] | 1.6.3.5.2.4[FS] |
| 1.6.3.5.2.4 | Test HV power supply | Complete | 20d | 15Mar10 23Aug10 | 19Aug09 16Sep09 | None | | None | | 1.6.3.5.2.1[FS+5d]; 1.6.3.5.2.6[FS]; 1.6.3.5.2.2[FS]; 1.6.3.5.2.3[FS] | 1.6.3.5.5[FS] |
| 1.6.3.5.2.5 | Order additional HV power supply | Complete | 1d | 01Mar10 01Mar10 | 01Mar10 01Mar10 | None | | None | | 1.6.3.5.2.1[SS] | 1.6.3.5.2.6[FS+44d] |
| 1.6.3.5.2.6 | Receive additional HV power supply | Complete | 1d | 15Mar10 15Mar10 | 03May10 03May10 | None | | None | | 1.6.3.5.2.5[FS+44d] | 1.6.3.5.2.4[FS]; 1.7.7.1.3.9[FS] |
| 1.6.3.5.3 | Power Cables | Complete | 833d | 01May07 23Aug10 | 01May07 03Mar10 | None | | None | | | |
| 1.6.3.5.3.1 | Procure PDB to FEB cables | Complete | 25d | 04Jan10 23Aug10 | 12Aug09 16Sep09 | None | | None | | 1.6.3.5.3.12[FS] | 2.6.3.3.9[FF]; 1.6.3.5.5[FS] |
| 1.6.3.5.3.2 | Procure LV supply to PDB cables | Complete | 20d | 01Mar10 26Mar10 | 18May09 15Jun09 | None | | None | | 1.6.3.1.4[FS] | 2.6.3.3.2[FS]; 2.6.3.3.9[FF]; 1.6.3.5.5[FS]; 1.6.3.5.3.3[SS] |
| 1.6.3.5.3.3 | Procure LV supply sense cables | Complete | 20d | 04Jan10 05Mar10 | 18May09 15Jun09 | None | | None | | 1.6.3.5.3.2[SS] | 2.6.3.3.9[FF]; 1.6.3.5.5[FS] |
| 1.6.3.5.3.4 | Procure HV supply to PDB cables | Complete | 30d | 15Feb10 30Mar10 | 18May09 29Jun09 | None | | None | | 1.6.3.2.4[FS] | 2.6.3.3.4[FS]; 2.6.3.3.9[FF]; 1.6.3.5.5[FS] |
| 1.6.3.5.3.5 | Procure PDB to DCM cables | Complete | 20d | 15Feb10 31Mar10 | 24Jul09 20Aug09 | None | | None | | 1.6.3.5.4.4[FS] | 2.6.3.3.9[FF]; 1.6.3.5.5[FS] |
| 1.6.3.5.3.6 | Procure ground cables | Complete | 20d | 14May10 30Jun10 | 16Jun09 14Jul09 | None | | None | | 1.8.5.7.1[FS-20d] | 2.6.3.3.9[FF] |
| 1.6.3.5.3.7 | Define cable test procedures | Complete | 5d | 01Mar10 05Mar10 | 27Apr09 01May09 | None | | None | | 1.6.3.4.7[SS+20d]; 1.6.3.4.1[FS] | 1.6.3.5.3.8[FS] |
| 1.6.3.5.3.8 | Setup cable test stand | Complete | 5d | 08Mar10 12Mar10 | 04May09 08May09 | None | | None | | 1.6.3.5.3.7[FS] | |
| 1.6.3.5.3.9 | Specify cable trays | Complete | 104d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.6.3.3.9[FS] | 1.6.3.5.3.10[FS] |
| 1.6.3.5.3.10 | Procure cable trays | Complete | 15d | 02Aug10 23Aug10 | 02Feb09 13Mar09 | None | | None | | 1.6.3.5.3.9[FS]; 2.10.9.7[FS] | |
| 1.6.3.5.3.11 | Mockup cable harness | Complete | 60d | 04Jan10 11Mar10 | 03Dec09 03Mar10 | None | | None | | 1.1.5.1.2.22[FF+20d] | 1.6.3.5.3.12[FF] |
| 1.6.3.5.3.12 | Final design - cable routing | Complete | 60d | 04Jan10 31Mar10 | 03Dec09 03Mar10 | None | | None | | 1.6.3.5.3.11[FF]; 1.1.5.1.2.22[FF+20d] | 1.6.3.5.3.1[FS] |
| 1.6.3.5.4 | Power Distribution Boxes | Complete | 204d | 04Jan10 20Oct10 | 30Mar09 12Aug10 | None | | None | | | |
| 1.6.3.5.4.1 | Procure PDB parts | Complete | 40d | 04Jan10 14May10 | 01Apr09 27May09 | None | | None | | 1.6.3.4.8.4[FS]; 1.6.3.4.7[FS] | 1.6.3.5.4.4[FS]; 2.6.3.4.3[FS] |
| 1.6.3.5.4.2 | Define test procedure for PDBs | Complete | 5d | 01Mar10 05Mar10 | 30Mar09 03Apr09 | None | | None | | 1.6.3.4.7[SS] | 1.6.3.5.4.4[FS]; 1.6.3.5.4.3[FS]; 1.6.3.5.4.5[FS-5d] |
| 1.6.3.5.4.3 | Set up PDB test stand | Complete | 5d | 15Feb10 23Aug10 | 06Apr09 10Apr09 | None | | None | | 1.6.3.5.4.2[FS] | 1.6.3.5.4.4[FS] |
| 1.6.3.5.4.4 | Assemble and test PDBs | Complete | 15d | 28Apr10 13Jul10 | 28May09 23Jul09 | None | | None | | 1.6.3.5.4.1[FS]; 1.6.3.5.4.2[FS]; 1.6.3.5.4.3[FS]; 1.6.3.5.4.5[FS] | 1.6.3.5.3.5[FS]; 1.6.3.5.5[FS]; 2.6.3.4.1[FS] |
| 1.6.3.5.4.5 | Set up PDB test stand - supplemental | Complete | 40d | 15Mar10 23Aug10 | 01Mar10 23Apr10 | None | | None | | 1.6.3.5.4.2[FS-5d] | 1.6.3.5.4.4[FS] |
| 1.6.3.5.4.6 | Continue work on PDB test stand | Complete | 30d | 01Jul10 20Oct10 | 01Jul10 12Aug10 | None | | None | | | 1.6.3.5.8[FS] |
| 1.6.3.5.5 | Ship PDBs, cables, and power supplies to Fermilab | Complete | 2d | 25Jun10 20Oct10 | 17Sep09 22Sep09 | None | | None | | 1.6.3.5.2.4[FS]; 1.6.3.5.4.4[FS]; 1.6.3.5.1.6[FS]; 1.6.3.5.3.4[FS]; 1.6.3.5.3.5[FS]; 1.6.3.5.3.1[FS]; 1.6.3.5.3.3[FS]; 1.6.3.5.3.2[FS] | 1.6.3.5.6[FS] |
| 1.6.3.5.6 | Power Distribution System Test | Complete | 5d | 01Oct10 20Oct10 | 23Sep09 20Oct09 | None | | None | | 1.6.3.5.5[FS] | 1.6.3.5.7[FS] |
| 1.6.3.5.7 | Integrate with detector control system | Complete | 5d | 20Oct10 29Dec10 | 21Oct09 17Nov09 | None | | None | | 1.6.3.5.6[FS] | 1.6.3.5.8[FS] |
| 1.6.3.5.8 | IPND power distribution system online | Complete | 0 | 20Oct10 20Oct10 | 17Nov09 17Nov09 | None | | None | | 1.6.3.5.4.6[FS]; 1.6.3.5.7[FS] | |
| 1.6.4 | Management - R&D Phase | Complete | 1549d | 03Oct05 01Dec11 | 01May07 28Dec07 | None | | None | | | |
| 1.6.4.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.6.4.2.2 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Apr07 | None | | | |
| 1.6.4.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.6.4.2.1.1[FS] | 1.6.4.3.1[FS] |
| 1.6.4.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.6.4.2.1.2[FS] | 1.6.4.3.2[FS] |
| 1.6.4.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.6.4.2.1.3[FS] | 1.6.4.3.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.6.4.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.6.4.2.1.4[FS] | 1.6.4.3.4[FS] |
| 1.6.4.3 | FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | | |
| 1.6.4.3.1 | Labor | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.6.4.2.2.1[FS] | |
| 1.6.4.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.6.4.2.2.2[FS] | |
| 1.6.4.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.6.4.2.2.3[FS] | |
| 1.6.4.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.6.4.2.2.4[FS] | |
| 1.6.4.5 | Post CD-1 Electronics R&D Cost Account | Complete | 106d | 01May07 01Dec11 | 01May07 28Sep07 | None | | None | | | |
| 1.6.5 | Vertical Slice Tests | Complete | 1122d | 01Mar07 15Aug11 | 01May07 01Feb11 | None | | None | | | |
| 1.6.5.1 | Vertical Slice Test 1 | Complete | 107d | 01Mar07 31Jul07 | 01May07 22Aug07 | None | | None | | | |
| 1.6.5.1.2 | Operate apparatus | Complete | 80d | 01May07 31Jul07 | 01May07 22Aug07 | None | | None | | 1.6.5.1.1[FS]; 1.6.1.1.2.4[FS] | |
| 1.6.5.2 | Vertical Slice Test 2 | Complete | 672d | 01May07 05Jan10 | 01May07 02Mar09 | None | | None | | | |
| 1.6.5.2.1 | Prepare apparatus | Complete | 20d | 01May07 28Feb08 | 01May07 29May07 | None | | None | | 1.6.5.1.1[FS] | 1.6.5.2.5[FS]; 1.6.5.2.2[FS] |
| 1.6.5.2.2 | Operate apparatus - 2HFY07 | Complete | 1d | 28Sep07 28Sep07 | 30May07 27Sep07 | None | | None | | 1.6.5.2.1[FS]; 1.6.1.1.2.5[FS] | 1.6.5.2.4[FS] |
| 1.6.5.2.3 | Review APD module performance | Complete | 1d | 04Jan10 05Jan10 | 02Mar09 02Mar09 | None | | None | | 1.6.5.2.4[FS] | 2.6.1.2.2[FS] |
| 1.6.5.2.4 | Operate apparatus-FY08 | Complete | 127d | 02Apr08 30Sep08 | 04Jan08 30Sep08 | None | | None | | 1.6.5.2.2[FS] | 1.6.5.2.3[FS] |
| 1.6.5.2.5 | Prepare fiber testing apparatus | Complete | 30d | 01Jul07 26Feb09 | 30May07 11Jul07 | None | | None | | 1.6.5.2.1[FS] | 1.6.5.2.6[FS] |
| 1.6.5.2.6 | Test vertical slice fibers - 2HFY07 | Complete | 23d | 29Jun07 28Sep07 | 12Jul07 28Sep07 | None | | None | | 1.6.5.2.5[FS] | 1.6.5.2.7[FS] |
| 1.6.5.2.7 | Test vertical slice fibers | Complete | 42d | 16Mar09 15Jun09 | 28Jan08 30Sep08 | None | | None | | 1.6.5.2.6[FS] | 1.6.5.3.1[FS] |
| 1.6.5.3 | Vertical Slice Test 3 | Complete | 241d | 01Jun09 14May10 | 29Apr09 09Mar10 | None | | None | | | |
| 1.6.5.3.1 | Prepare fibers | Complete | 10d | 01Jun09 30Jun09 | 29Apr09 12May09 | None | | None | | 1.6.5.2.7[FS] | 1.6.5.3.2[FS] |
| 1.6.5.3.2 | Install apparatus | Complete | 5d | 15Jul09 14Aug09 | 13May09 19May09 | None | | None | | 1.6.5.3.1[FS] | 1.6.5.3.3[FS] |
| 1.6.5.3.3 | Operate VS3 | Complete | 200d | 17Aug09 14May10 | 20May09 09Mar10 | None | | None | | 1.6.5.3.2[FS] | 1.6.5.4.1[SS+80d] |
| 1.6.5.4 | Vertical Slice Test 5 - Full Length Modules | Complete | 409d | 04Jan10 15Aug11 | 04Jan10 01Feb11 | None | | None | | | |
| 1.6.5.4.1 | Prepare room and tables | Complete | 20d | 04Jan10 29Jan10 | 04Jan10 01Feb10 | None | | None | | 1.6.5.3.3[SS+80d] | 1.6.5.4.2[FS] |
| 1.6.5.4.2 | Install apparatus | Complete | 20d | 15Mar10 30Sep10 | 18Mar10 14Apr10 | None | | None | | 1.6.5.4.1[FS]; 1.6.1.6.1.11[FS] | 1.6.5.4.3[FS] |
| 1.6.5.4.3 | Operate VS5 | Complete | 200d | 20Oct10 15Aug11 | 15Apr10 01Feb11 | None | | None | | 1.6.5.4.2[FS] | |
| 1.7 | DAQ System R&D | Complete | 1651d | 03Oct05 30Apr12 | 01May07 19Sep11 | None | | None | | | |
| 1.7.1 | DAQ Software | Complete | 1215d | 01Mar06 30Dec10 | 01May07 14Jun10 | None | | None | | | |
| 1.7.1.4 | Run Control System | Complete | 753d | 01Feb07 01Feb10 | 01May07 03Mar09 | None | | None | | | |
| 1.7.1.4.3 | Run Control Systems Evaluation | Complete | 43d | 28May07 27Jul07 | 01May07 27Jul07 | None | | None | | | |
| 1.7.1.4.3.1 | Find candidates for run control system software | Complete | 14d | 28May07 08Jun07 | 01May07 18May07 | None | | None | | 1.7.1.4.2.3[FS] | 1.7.1.4.3.2[FS] |
| 1.7.1.4.3.2 | Evaluate run control system candidates | Complete | 40d | 11Jun07 17Jul07 | 21May07 17Jul07 | None | | None | | 1.7.1.4.3.1[FS] | 1.7.1.4.3.3[FS] |
| 1.7.1.4.3.3 | Review run control system evaluations | Complete | 8d | 18Jul07 27Jul07 | 18Jul07 27Jul07 | None | | None | | 1.7.1.4.3.2[FS] | 1.7.1.4.4.1[FS] |
| 1.7.1.4.4 | Run Control System-First Release | Complete | 628d | 30Jul07 01Feb10 | 30Jul07 03Mar09 | None | | None | | | |
| 1.7.1.4.4.1 | Develop initial run control system framework | Complete | 32d | 30Jul07 28Dec07 | 30Jul07 28Dec07 | None | | None | | 1.7.1.3.4.8[FS]; 1.7.1.2.4.8[FS]; 1.7.1.4.3.3[FS] | 1.7.1.4.4.2[SS]; 1.7.1.4.4.3[SS]; 2.7.1.5.3[FS]; 1.7.1.6.3.1.8[FS]; 1.7.1.8.4.3[FS]; 1.7.1.4.4.8[FS] |
| 1.7.1.4.4.2 | Develop initial run control command line interface | Complete | 16d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.1.4.4.1[SS] | 1.7.1.4.4.9[FS] |
| 1.7.1.4.4.3 | Develop run control system test and verification suite | Complete | 16d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.1.4.4.1[SS] | 1.7.1.4.4.10[FS] |
| 1.7.1.4.4.4 | Write run control system user documentation | Complete | 10d | 04Jan10 25Jan10 | 06Feb09 19Feb09 | None | | None | | 1.7.1.4.4.10[FS] | 1.7.1.4.4.6[FS] |
| 1.7.1.4.4.5 | Perform run control system tests and verification for first release (OBSOLETE) | Complete | 1d | 05Jan10 05Jan10 | 06Feb09 11Feb09 | None | | None | | 1.7.1.4.4.10[FS] | 1.7.1.4.4.6[FS] |
| 1.7.1.4.4.6 | Review run control system software, tests and documentation for first release (OBSOLETE) | Complete | 1d | 20Jan10 20Jan10 | 20Feb09 03Mar09 | None | | None | | 1.7.1.4.4.5[FS]; 1.7.1.4.4.4[FS] | 1.7.1.4.4.7[FS] |
| 1.7.1.4.4.7 | Run control system for software first release | Complete | 0 | 01Feb10 01Feb10 | 03Mar09 03Mar09 | None | | None | | 1.7.1.4.4.6[FS] | 2.7.1.3.1.11[FS]; 1.7.7.4.1.1[FS]; 1.7.1.11[FS]; 1.7.7.4.2[FS] |
| 1.7.1.4.4.8 | Develop initial run control system framework - Part 2 | Complete | 8d | 02Oct09 28Jan10 | 02Feb09 11Feb09 | None | | None | | 1.7.1.4.4.1[FS]; 2.10.9.7[FS] | 2.7.1.5.11[FS]; 1.7.1.6.3.1.14[FS]; 2.7.1.5.3[FS]; 1.7.1.4.4.9[SS]; 1.7.1.8.4.3[FS]; 1.7.1.4.4.10[SS] |
| 1.7.1.4.4.9 | Develop initial run control command line interface - Part 2 (OBSOLETE) | Complete | 1d | 04Jan10 04Jan10 | 02Feb09 05Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.1.4.4.2[FS]; 1.7.1.4.4.8[SS] | 1.7.1.4.4.10[SS] |
| 1.7.1.4.4.10 | Develop run control system test and verification suite - Part 2 (OBSOLETE) | Complete | 1d | 04Jan10 04Jan10 | 02Feb09 05Feb09 | None | | None | | 1.7.1.4.4.3[FS]; 1.7.1.4.4.9[SS]; 2.10.9.7[FS]; 1.7.1.4.4.8[SS] | 1.7.1.4.4.4[FS]; 1.7.1.4.4.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.1.6 | Event Buffer Farm Software | Complete | 1163d | 01May06 15Dec10 | 01May07 14Jun10 | None | | None | | | |
| 1.7.1.6.3 | Event Buffer Farm Core Software | Complete | 960d | 22Feb07 15Dec10 | 01Oct07 16Jun09 | None | | None | | | |
| 1.7.1.6.3.1 | Event Buffer Farm Core Software-First Release | Complete | 960d | 22Feb07 15Dec10 | 01Oct07 16Jun09 | None | | None | | | |
| 1.7.1.6.3.1.8 | Integrate run control support in the event buffer farm core software | Complete | 10d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.1.6.3.1.1[SS]; 1.7.1.4.4.1[FS] | 1.7.1.6.3.1.9[FS]; 1.7.1.11[FS]; 1.7.1.6.3.1.14[FS] |
| 1.7.1.6.3.1.9 | Write event buffer farm core software test and verification suite for first release | Complete | 10d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.1.6.3.1.8[FS]; 1.7.1.6.3.1.5[FS] | 1.7.1.6.3.1.15[FS] |
| 1.7.1.6.3.1.10 | Write event buffer farm core software user documentation for first release | Complete | 18d | 01Feb10 15Dec10 | 01May09 27May09 | None | | None | | 1.7.1.6.3.1.15[FS] | 1.7.1.6.3.1.12[FS] |
| 1.7.1.6.3.1.11 | Perform event buffer farm core software tests and verification for first release | Complete | 7d | 02Nov09 28Oct10 | 01May09 11May09 | None | | None | | 1.7.1.6.3.1.15[FS] | 1.7.1.6.3.1.12[FS] |
| 1.7.1.6.3.1.12 | Review event buffer farm core software, tests and documentation for first release (Obsolete) | Complete | 1d | 15Dec10 15Dec10 | 28May09 16Jun09 | None | | None | | 1.7.1.6.3.1.10[FS]; 1.7.1.6.3.1.11[FS] | 1.7.1.6.3.1.13[FS] |
| 1.7.1.6.3.1.13 | Event buffer farm core software for software first release | Complete | 0 | 15Dec10 15Dec10 | 16Jun09 16Jun09 | None | | None | | 1.7.1.6.3.1.12[FS] | 2.7.1.4.1.1[FS] |
| 1.7.1.6.3.1.14 | Integrate run control support in the event buffer farm core software - Part 2 | Complete | 18d | 04Jan10 01Sep10 | 12Feb09 25Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.1.4.4.8[FS]; 1.7.1.6.3.1.8[FS] | 1.7.1.11[FS]; 1.7.1.6.3.1.15[FS] |
| 1.7.1.6.3.1.15 | Write event buffer farm core software test and verification suite for first release - Part 2 | Complete | 18d | 02Nov09 04Oct10 | 26Feb09 11Mar09 | None | | None | | 2.10.9.7[FS]; 1.7.1.6.3.1.9[FS]; 1.7.1.6.3.1.14[FS] | 1.7.1.6.3.1.10[FS]; 1.7.1.6.3.1.11[FS] |
| 1.7.1.6.4 | Event Buffer Farm Server | Complete | 912d | 01May07 15Dec10 | 01May07 15May09 | None | | None | | | |
| 1.7.1.6.4.1 | Event Buffer Farm Server-First Release | Complete | 912d | 01May07 15Dec10 | 01May07 15May09 | None | | None | | | |
| 1.7.1.6.4.1.1 | Write first release event buffer farm server code | Complete | 25d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.7.1.6.3.1.7[FS]; 1.7.1.6.3.1.4[FS]; 1.7.1.6.3.1.6[FS]; 1.7.1.6.3.1.3[FS]; 1.7.1.6.3.1.2[FS]; 1.7.1.6.3.1.5[FS] | 1.7.1.6.4.1.2[FS]; 1.7.1.6.4.1.7[FS] |
| 1.7.1.6.4.1.2 | Write event buffer farm server test and verification suite for first release | Complete | 16d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.7.1.6.4.1.1[FS] | 1.7.1.6.4.1.8[FS] |
| 1.7.1.6.4.1.3 | Write event buffer farm server user documentation for software first release | Complete | 18d | 01Feb10 15Dec10 | 17Feb09 02Mar09 | None | | None | | 1.7.1.6.4.1.8[FS] | 1.7.1.6.4.1.5[FS] |
| 1.7.1.6.4.1.4 | Perform event buffer farm server tests and verification for software first release | Complete | 18d | 02Nov09 15Dec10 | 17Feb09 02Mar09 | None | | None | | 1.7.1.6.4.1.8[FS] | 1.7.1.6.4.1.5[FS] |
| 1.7.1.6.4.1.5 | Review event buffer farm server, tests and documentation for software first release | Complete | 1d | 15Dec10 15Dec10 | 22Apr09 15May09 | None | | None | | 1.7.1.6.4.1.4[FS]; 1.7.1.6.4.1.3[FS] | 1.7.1.6.4.1.6[FS] |
| 1.7.1.6.4.1.6 | Event buffer farm server for software first release | Complete | 0 | 15Dec10 15Dec10 | 15May09 15May09 | None | | None | | 1.7.1.6.6.6[FS]; 1.7.1.6.4.1.5[FS]; 1.7.1.6.6.5[FS] | 1.7.1.11[FS]; 1.7.7.4.8[FS]; 2.7.1.4.4.1[FS]; 1.7.7.2.1.6[FS]; 1.7.7.2.1.7[FS]; 1.7.7.2.1.1[FS]; 1.7.7.2.1.9[FS] |
| 1.7.1.6.4.1.7 | Write first release event buffer farm server code - Part 2 | Complete | 12d | 02Oct09 28Oct10 | 02Feb09 10Feb09 | None | | None | | 1.7.1.6.4.1.1[FS]; 2.10.9.7[FS] | 1.7.1.6.4.1.8[FS] |
| 1.7.1.6.4.1.8 | Write event buffer farm server test and verification suite for first release - Part 2 | Complete | 7d | 02Oct09 15Dec10 | 11Feb09 16Feb09 | None | | None | | 1.7.1.6.4.1.7[FS]; 1.7.1.6.4.1.2[FS]; 2.10.9.7[FS] | 1.7.1.6.4.1.3[FS]; 1.7.1.6.4.1.4[FS] |
| 1.7.1.6.6 | Buffer Farm Software First Release - Part 3 | Complete | 223d | 01Feb10 15Dec10 | 01Feb10 14Jun10 | None | | None | | | |
| 1.7.1.6.6.1 | Integrate new effort for Buffer Farm Software-Part 3 | Complete | 20d | 01Feb10 26Feb10 | 01Feb10 26Feb10 | None | | None | | | 1.7.1.6.6.2[FS] |
| 1.7.1.6.6.2 | Integrate new DAQ data formats into Buffer Farm Software | Complete | 10d | 15Mar10 20Apr10 | 01Mar10 12Mar10 | None | | None | | 1.7.1.6.6.1[FS] | 1.7.1.6.6.3[FS] |
| 1.7.1.6.6.3 | Buffer Farm Software-first release-Part 3-Write code | Complete | 20d | 15Mar10 29Oct10 | 15Mar10 09Apr10 | None | | None | | 1.7.1.6.6.2[FS] | 1.7.1.6.6.4[SS+10d]; 1.7.1.6.6.5[FF] |
| 1.7.1.6.6.4 | Buffer Farm Software-first release-Part 3-Write and perform tests | Complete | 20d | 19Apr10 15Dec10 | 29Mar10 23Apr10 | None | | None | | 1.7.1.6.6.3[SS+10d] | 1.7.1.6.6.5[SS+10d] |
| 1.7.1.6.6.5 | Buffer Farm Software-first release-Part 3-Write user documentation | Complete | 20d | 01Jul10 15Dec10 | 12Apr10 07May10 | None | | None | | 1.7.1.6.6.3[FF]; 1.7.1.6.6.4[SS+10d] | 1.7.1.6.4.1.6[FS] |
| 1.7.1.6.6.6 | Buffer Farm Software-first release-Part 3-Update kernel device driver FPGA read | Complete | 20d | 26May10 15Sep10 | 17May10 14Jun10 | None | | None | | | 1.7.1.6.4.1.6[FS] |
| 1.7.1.7 | Data Logger | Complete | 240d | 26Feb09 10Feb10 | 17Mar09 24Jul09 | None | | None | | | |
| 1.7.1.7.1 | Data Logger Requirements | Complete | 72d | 26Feb09 08Jun09 | 17Mar09 05May09 | None | | None | | | |
| 1.7.1.7.1.1 | Data logger requirements document draft | Complete | 20d | 26Feb09 15Apr09 | 17Mar09 13Apr09 | None | | None | | 1.7.1.5.3[FS] | 1.7.1.7.1.2[FS] |
| 1.7.1.7.1.2 | Review data logger requirements document | Complete | 8d | 01May09 26May09 | 14Apr09 23Apr09 | None | | None | | 1.7.1.7.1.1[FS] | 1.7.1.7.1.3[FS] |
| 1.7.1.7.1.3 | Finalize data logger requirements document | Complete | 8d | 26May09 08Jun09 | 24Apr09 05May09 | None | | None | | 1.7.1.7.1.2[FS] | 1.7.1.7.2.1[FS] |
| 1.7.1.7.2 | Data Logger Design | Complete | 169d | 08Jun09 10Feb10 | 06May09 24Jul09 | None | | None | | | |
| 1.7.1.7.2.1 | Data logger design document draft | Complete | 40d | 08Jun09 30Jul09 | 06May09 01Jul09 | None | | None | | 1.7.1.7.1.3[FS] | 1.7.1.7.2.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.1.7.2.2 | Review data logger design document | Complete | 8d | 05Aug09 15Dec09 | 02Jul09 14Jul09 | None | | None | | 1.7.1.7.2.1[FS] | 1.7.1.7.2.3[FS] |
| 1.7.1.7.2.3 | Finalize data logger design document | Complete | 8d | 01Feb10 10Feb10 | 15Jul09 24Jul09 | None | | None | | 1.7.1.7.2.2[FS] | 2.7.1.5.9[FS]; 2.7.1.5.1[FS] |
| 1.7.1.8 | Global Trigger System | Complete | 1001d | 08Jan07 30Dec10 | 02Feb09 15Jul09 | None | | None | | | |
| 1.7.1.8.3 | Global Trigger System-First Release | Complete | 331d | 21Aug09 15Dec10 | 02Feb09 13May09 | None | | None | | | |
| 1.7.1.8.3.1 | Develop initial global trigger server framework | Complete | 35d | 21Aug09 28Jun10 | 02Feb09 20Mar09 | None | | None | | 2.10.9.7[FS]; 1.7.1.8.2.3[FS] | 1.7.1.8.3.2[FS] |
| 1.7.1.8.3.2 | Write global trigger system test and verification suite for software first release | Complete | 20d | 07Jun10 15Dec10 | 23Mar09 17Apr09 | None | | None | | 1.7.1.8.3.1[FS] | 1.7.1.8.3.4[FS]; 1.7.1.8.3.3[FS] |
| 1.7.1.8.3.3 | Write global trigger system user documentation for software first release | Complete | 10d | 01Jun10 15Dec10 | 20Apr09 01May09 | None | | None | | 1.7.1.8.3.2[FS] | 1.7.1.8.3.5[FS] |
| 1.7.1.8.3.4 | Perform global trigger system tests and verification for software first release | Complete | 4d | 01Jul10 15Dec10 | 20Apr09 23Apr09 | None | | None | | 1.7.1.8.3.2[FS] | 1.7.1.8.3.5[FS] |
| 1.7.1.8.3.5 | Review global trigger system, tests and documentation for software first release | Complete | 1d | 15Dec10 15Dec10 | 04May09 13May09 | None | | None | | 1.7.1.8.3.3[FS]; 1.7.1.8.3.4[FS] | 1.7.1.8.3.6[FS] |
| 1.7.1.8.3.6 | Global trigger system for software first release | Complete | 0 | 15Dec10 15Dec10 | 13May09 13May09 | None | | None | | 1.7.1.8.3.5[FS] | 1.7.1.8.4.1[FS]; 1.7.7.4.9.1[FS] |
| 1.7.1.8.4 | Global Trigger System-Second Release | Complete | 189d | 01Apr10 30Dec10 | 14May09 15Jul09 | None | | None | | | |
| 1.7.1.8.4.1 | Develop beam signal trigger | Complete | 10d | 01Apr10 23Dec10 | 14May09 28May09 | None | | None | | 1.7.1.8.3.6[FS] | 1.7.1.8.4.2[SS]; 1.7.1.8.4.3[FS] |
| 1.7.1.8.4.2 | Integrate error handling and monitoring support in the global trigger server | Complete | 20d | 07Jun10 30Dec10 | 14May09 11Jun09 | None | | None | | 1.7.1.8.4.1[SS]; 1.7.1.2.4.2[FS] | |
| 1.7.1.8.4.3 | Integrate run control support in the global trigger server | Complete | 10d | 07Jun10 31Aug10 | 29May09 11Jun09 | None | | None | | 1.7.1.4.4.1[FS]; 1.7.1.8.4.1[FS]; 1.7.1.4.4.8[FS] | 1.7.1.8.4.4[FS] |
| 1.7.1.8.4.4 | Update global trigger system test and verification suite for software second release | Complete | 10d | 01Nov10 23Dec10 | 12Jun09 25Jun09 | None | | None | | 1.7.1.8.4.3[FS] | 1.7.1.8.4.5[FS]; 1.7.1.8.4.6[FS] |
| 1.7.1.8.4.5 | Update global trigger system user documentation for software second release | Complete | 5d | 01Nov10 20Dec10 | 26Jun09 02Jul09 | None | | None | | 1.7.1.8.4.4[FS] | 1.7.1.8.4.7[FS] |
| 1.7.1.8.4.6 | Perform global trigger system tests and verification for software second release | Complete | 4d | 01Nov10 30Dec10 | 26Jun09 01Jul09 | None | | None | | 1.7.1.8.4.4[FS] | 1.7.1.8.4.7[FS] |
| 1.7.1.8.4.7 | Review global trigger system, tests and documentation for software second release | Complete | 1d | 30Dec10 30Dec10 | 06Jul09 15Jul09 | None | | None | | 1.7.1.8.4.6[FS]; 1.7.1.8.4.5[FS] | 1.7.1.8.4.8[FS] |
| 1.7.1.8.4.8 | Global trigger system for software second release | Complete | 0 | 30Dec10 30Dec10 | 15Jul09 15Jul09 | None | | None | | 1.7.1.8.4.7[FS] | 1.7.1.11[FS] |
| 1.7.1.9 | DAQ Monitor System | Complete | 209d | 27Mar09 27Jan10 | 02Feb09 27Jan10 | None | | None | | | |
| 1.7.1.9.1 | DAQ Monitor System Requirements | Complete | 31d | 27Mar09 08May09 | 02Feb09 28May09 | None | | None | | | |
| 1.7.1.9.1.1 | DAQ monitor system requirements document draft | Complete | 35d | 27Mar09 28Apr09 | 02Feb09 27Feb09 | None | | None | | 2.10.9.7[FS] | 1.7.1.9.1.2[FS] |
| 1.7.1.9.1.2 | Review DAQ monitor requirements document | Complete | 14d | 01May09 05May09 | 20Apr09 07May09 | None | | None | | 1.7.1.9.1.1[FS] | 1.7.1.9.1.3[FS] |
| 1.7.1.9.1.3 | Finalize DAQ monitor requirements document | Complete | 14d | 06May09 08May09 | 08May09 28May09 | None | | None | | 1.7.1.9.1.2[FS] | 1.7.1.9.2.1[FS] |
| 1.7.1.9.2 | DAQ Monitor System Design | Complete | 114d | 01Jun09 09Nov09 | 29May09 15Oct09 | None | | None | | | |
| 1.7.1.9.2.1 | DAQ monitor system design document draft | Complete | 70d | 01Jun09 03Aug09 | 29May09 04Sep09 | None | | None | | 1.7.1.9.1.3[FS] | 1.7.1.9.2.2[FS] |
| 1.7.1.9.2.2 | Review DAQ monitor system design document | Complete | 14d | 04Aug09 02Nov09 | 08Sep09 25Sep09 | None | | None | | 1.7.1.9.2.1[FS] | 1.7.1.9.2.3[FS] |
| 1.7.1.9.2.3 | Finalize DAQ monitor system design document | Complete | 14d | 02Nov09 09Nov09 | 28Sep09 15Oct09 | None | | None | | 1.7.1.9.2.2[FS] | 1.7.1.9.3.1[FS] |
| 1.7.1.9.3 | DAQ Monitor Software and Development Languages Evaluation | Complete | 149d | 20Jun09 27Jan10 | 16Oct09 27Jan10 | None | | None | | | |
| 1.7.1.9.3.1 | Find candidates for DAQ monitor software and development languages | Complete | 35d | 20Jun09 30Jul09 | 16Oct09 07Dec09 | None | | None | | 1.7.1.9.2.3[FS] | 1.7.1.9.3.2[FS] |
| 1.7.1.9.3.2 | Evaluate DAQ monitor software and development languages | Complete | 18d | 03Aug09 18Aug09 | 08Dec09 06Jan10 | None | | None | | 1.7.1.9.3.1[FS] | 1.7.1.9.3.3[FS] |
| 1.7.1.9.3.3 | Review DAQ monitor software and development languages evaluations | Complete | 14d | 07Jan10 27Jan10 | 07Jan10 27Jan10 | None | | None | | 1.7.1.9.3.2[FS] | |
| 1.7.1.11 | DAQ software ready for IPND | Complete | 0 | 30Dec10 30Dec10 | 15Jul09 15Jul09 | None | | None | | 1.7.1.3.4.8[FS]; 1.7.1.6.4.1.6[FS]; 1.7.1.8.4.8[FS]; 1.7.1.4.4.7[FS]; 1.7.1.2.4.8[FS]; 1.7.1.6.3.1.8[FS]; 1.7.1.6.3.1.14[FS] | 1.8.5.7.11[FS] |
| 1.7.2 | DAQ Hardware | Complete | 1294d | 22Feb06 15Apr11 | 01May07 29Apr10 | None | | None | | | |
| 1.7.2.1 | Data Concentrator | Complete | 1294d | 22Feb06 15Apr11 | 01May07 21Aug09 | None | | None | | | |
| 1.7.2.1.5 | Pre-production Design Modifications | Complete | 545d | 01May07 30Jun09 | 01May07 03Feb09 | None | | None | | | 1.7.2.1.6.1.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.2.1.5.1 | Specifications | Complete | 149d | 01May07 30Nov07 | 01May07 11May07 | None | | None | | | |
| 1.7.2.1.5.1.1 | Prepare specifications document | Complete | 9d | 01May07 30Nov07 | 01May07 11May07 | None | | None | | 1.7.2.1.4[FS] | 1.7.2.1.5.4[FS]; 1.7.2.1.5.2.1[FS]; 1.7.2.1.5.3[FS] |
| 1.7.2.1.5.2 | Circuit Design | Complete | 416d | 01Nov07 30Jun09 | 01Nov07 03Feb09 | None | | None | | | |
| 1.7.2.1.5.2.1 | Schematic entry | Complete | 18d | 01Nov07 28Dec07 | 01Nov07 28Dec07 | None | | None | | 1.7.2.1.5.1.1[FS] | 1.7.2.1.5.2.2[FS] |
| 1.7.2.1.5.2.2 | Schematic entry - Part 2 | Complete | 2d | 26Feb09 30Jun09 | 02Feb09 03Feb09 | None | | None | | 1.7.2.1.5.2.1[FS]; 2.10.9.7[FS] | |
| 1.7.2.1.5.3 | Board design | Complete | 18d | 01Nov07 28Dec07 | 01Nov07 28Dec07 | None | | None | | 1.7.2.1.5.1.1[FS] | 1.7.2.1.5.5[FS] |
| 1.7.2.1.5.4 | Simulation | Complete | 18d | 01Nov07 28Dec07 | 01Nov07 28Dec07 | None | | None | | 1.7.2.1.5.1.1[FS] | 1.7.2.1.5.6[FS] |
| 1.7.2.1.5.5 | Board design - Part 2 | Complete | 2d | 26Feb09 30Jun09 | 02Feb09 03Feb09 | None | | None | | 1.7.2.1.5.3[FS]; 2.10.9.7[FS] | |
| 1.7.2.1.5.6 | Simulation - Part 2 | Complete | 2d | 26Feb09 30Jun09 | 02Feb09 03Feb09 | None | | None | | 1.7.2.1.5.4[FS]; 2.10.9.7[FS] | |
| 1.7.2.1.6 | Integration Prototype Near Detector DCM | Complete | 219d | 01Jul09 14May10 | 04Feb09 10Jun09 | None | | None | | | 1.7.7.2.1.5[FS] |
| 1.7.2.1.6.1 | IPND DCM Procurement | Complete | 198d | 01Jul09 15Apr10 | 04Feb09 31Mar09 | None | | None | | | |
| 1.7.2.1.6.1.1 | Write purchase requests | Complete | 5d | 01Jul09 15Jul09 | 04Feb09 10Feb09 | None | | None | | 1.7.2.1.5[FS] | 1.7.2.1.6.1.2[FS] |
| 1.7.2.1.6.1.2 | Obtain project approvals | Complete | 10d | 15Jul09 15Jul09 | 11Feb09 24Feb09 | None | | None | | 1.7.2.1.6.1.1[FS] | 1.7.2.1.6.1.3[FS] |
| 1.7.2.1.6.1.3 | Write purchase orders | Complete | 5d | 15Jul09 26Feb10 | 25Feb09 03Mar09 | None | | None | | 1.7.2.1.6.1.2[FS] | 1.7.2.1.6.1.4[FS] |
| 1.7.2.1.6.1.4 | Place purchase orders | Complete | 20d | 15Jul09 15Apr10 | 04Mar09 31Mar09 | None | | None | | 1.7.2.1.6.1.3[FS] | 1.7.2.1.6.2[FS+10d] |
| 1.7.2.1.6.2 | IPND data concentrator PCBs and components received | Complete | 0 | 15Apr10 15Apr10 | 14Apr09 14Apr09 | None | | None | | 1.7.2.1.6.1.4[FS+10d] | 1.7.2.1.6.3[FS] |
| 1.7.2.1.6.3 | Assemble IPND data concentrators | Complete | 40d | 01Sep09 14May10 | 15Apr09 10Jun09 | None | | None | | 1.7.2.1.6.2[FS] | 2.7.2.1.2.10[FS]; 1.7.2.1.7.1[FS] |
| 1.7.2.1.7 | Test Integ | Complete | 418d | 17Aug09 15Apr11 | 11Jun09 21Aug09 | None | | None | | | |
| 1.7.2.1.7.1 | Perform standalone boards tests | Complete | 30d | 17Aug09 15Jun10 | 11Jun09 23Jul09 | None | | None | | 2.7.2.1.2.10[FS]; 1.7.2.1.6.3[FS] | 1.7.2.1.7.2[FS] |
| 1.7.2.1.7.2 | Perform interface tests | Complete | 20d | 01Apr10 15Oct10 | 24Jul09 20Aug09 | None | | None | | 1.7.2.1.7.1[FS] | 1.7.2.1.7.3[FS] |
| 1.7.2.1.7.3 | Review test results | Complete | 1d | 15Apr11 15Apr11 | 21Aug09 21Aug09 | None | | None | | 1.7.2.1.7.2[FS] | 1.7.2.1.8[FS] |
| 1.7.2.1.8 | IPND data concentrators ready for installation | Complete | 0 | 15Oct10 15Oct10 | 21Aug09 21Aug09 | None | | None | | 1.7.2.1.7.3[FS] | 1.8.5.7.9[FS] |
| 1.7.2.2 | Control and Timing System | Complete | 1246d | 01May06 15Apr11 | 01May07 30Dec09 | None | | None | | | |
| 1.7.2.2.2 | Design | Complete | 934d | 01Feb07 15Oct10 | 01May07 17Mar09 | None | | None | | | |
| 1.7.2.2.2.3 | Circuit Design | Complete | 416d | 01Nov07 30Jun09 | 01May07 13Feb09 | None | | None | | | |
| 1.7.2.2.2.3.1 | Generate schematic symbols | Complete | 10d | 01Nov07 15Nov07 | 01May07 14May07 | None | | None | | 1.7.2.2.2.2.3[FS] | 1.7.2.2.2.3.2[FS] |
| 1.7.2.2.2.3.2 | Enter schematic | Complete | 27d | 16Nov07 28Dec07 | 16Nov07 28Dec07 | None | | None | | 1.7.2.2.2.3.1[FS] | 1.7.2.2.2.3.5[FS] |
| 1.7.2.2.2.3.3 | Review schematic | Complete | 7d | 01Jun09 30Jun09 | 05Feb09 13Feb09 | None | | None | | 1.7.2.2.2.3.5[FS] | 1.7.2.2.2.3.4[FS] |
| 1.7.2.2.2.3.4 | Schematic approved | Complete | 0 | 01Jun09 30Jun09 | 13Feb09 13Feb09 | None | | None | | 1.7.2.2.2.3.3[FS] | 1.7.2.2.2.7[FS]; 1.7.2.2.2.6[FS]; 1.7.2.2.2.5[FS] |
| 1.7.2.2.2.3.5 | Enter schematic - Part 2 | Complete | 3d | 01Jun09 30Jun09 | 02Feb09 04Feb09 | None | | None | | 1.7.2.2.2.3.2[FS]; 2.10.9.7[FS] | 1.7.2.2.2.3.3[FS] |
| 1.7.2.2.2.4 | Firmware Design | Complete | 765d | 01Oct07 15Oct10 | 01Oct07 17Feb09 | None | | None | | | |
| 1.7.2.2.2.4.1 | Design FPGA firmware | Complete | 24d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.2.2.2.2.3[FS] | 1.7.2.2.2.4.3[FS] |
| 1.7.2.2.2.4.2 | Design embedded software | Complete | 12d | 15Aug10 15Oct10 | 02Feb09 17Feb09 | None | | None | | 1.7.2.2.2.2.3[FS]; 2.10.9.7[FS] | 1.7.2.2.3.1[FS] |
| 1.7.2.2.2.4.3 | Design FPGA firmware - Part 2 | Complete | 8d | 15Jan10 15Oct10 | 02Feb09 11Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.2.2.2.4.1[FS] | 1.7.2.2.3.1[FS] |
| 1.7.2.2.2.5 | Board design | Complete | 29d | 15Nov07 28Dec07 | 15Nov07 28Dec07 | None | | None | | 1.7.2.2.2.2.3[FS]; 1.7.2.2.2.3.4[FS] | 1.7.2.2.2.8[FS] |
| 1.7.2.2.2.6 | Packaging design | Complete | 12d | 15Oct09 30Oct09 | 16Feb09 03Mar09 | None | | None | | 1.7.2.2.2.2.3[FS]; 1.7.2.2.2.3.4[FS] | |
| 1.7.2.2.2.7 | Simulation | Complete | 22d | 15Jun10 15Oct10 | 16Feb09 17Mar09 | None | | None | | 1.7.2.2.2.2.3[FS]; 1.7.2.2.2.3.4[FS] | 1.7.2.2.4.1[FS] |
| 1.7.2.2.2.8 | Board design - Part 2 | Complete | 3d | 01Jun09 30Jun09 | 16Feb09 18Feb09 | None | | None | | 1.7.2.2.2.5[FS]; 2.10.9.7[FS] | 1.7.2.2.3.1[FS] |
| 1.7.2.2.3 | Prototype Manufacture | Complete | 345d | 15Dec08 30Apr10 | 19Feb09 18Jun09 | None | | None | | | |
| 1.7.2.2.3.1 | Prepare PCB manufacturing requirements document | Complete | 10d | 01Jul09 15Jul09 | 19Feb09 04Mar09 | None | | None | | 1.7.2.2.2.8[FS]; 1.7.2.2.2.4.2[FS]; 1.7.2.2.2.4.3[FS] | 1.7.2.2.3.2[FS] |
| 1.7.2.2.3.2 | Review PCB manufacturing | Complete | 5d | 01Jul09 15Jul09 | 05Mar09 11Mar09 | None | | None | | 1.7.2.2.3.1[FS] | 1.7.2.2.3.3[FS] |
| 1.7.2.2.3.3 | PCB manufacturing approved | Complete | 0 | 15Jul09 15Jul09 | 11Mar09 11Mar09 | None | | None | | 1.7.2.2.3.2[FS] | 1.7.2.2.3.4.1[FS] |
| 1.7.2.2.3.4 | Prototype Procurement | Complete | 146d | 15Dec08 15Jul09 | 12Mar09 06May09 | None | | None | | | |
| 1.7.2.2.3.4.1 | Write purchase requests | Complete | 5d | 15Dec08 15Jul09 | 12Mar09 18Mar09 | None | | None | | 1.7.2.2.3.3[FS] | 1.7.2.2.3.4.2[FS] |
| 1.7.2.2.3.4.2 | Obtain project approvals | Complete | 10d | 15Dec08 15Jul09 | 19Mar09 01Apr09 | None | | None | | 1.7.2.2.3.4.1[FS] | 1.7.2.2.3.4.3[FS] |
| 1.7.2.2.3.4.3 | Write purchase orders | Complete | 5d | 15Dec08 15Jul09 | 02Apr09 08Apr09 | None | | None | | 1.7.2.2.3.4.2[FS] | 1.7.2.2.3.4.4[FS] |
| 1.7.2.2.3.4.4 | Place purchase orders | Complete | 20d | 15Dec08 15Jul09 | 09Apr09 06May09 | None | | None | | 1.7.2.2.3.4.3[FS] | 1.7.2.2.3.5[FS+10d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.2.2.3.5 | Prototype PCBs and components received for control and timing system | Complete | 0 | 15Apr10 15Apr10 | 20May09 20May09 | None | | None | | 1.7.2.2.3.4.4[FS+10d] | 1.7.2.2.3.6[FS] |
| 1.7.2.2.3.6 | Assemble prototypes | Complete | 20d | 17Aug09 30Apr10 | 21May09 18Jun09 | None | | None | | 1.7.2.2.3.5[FS] | 1.7.2.2.4.2[FS]; 2.7.2.2.8[FS] |
| 1.7.2.2.4 | Prototype Test | Complete | 253d | 15Apr10 15Apr11 | 18Mar09 30Dec09 | None | | None | | | 2.7.2.2.1.1.1[FS] |
| 1.7.2.2.4.1 | Write test procedures document | Complete | 7d | 08Apr11 15Apr11 | 18Mar09 26Mar09 | None | | None | | 1.7.2.2.2.2.3[FS]; 1.7.2.2.2.7[FS] | 1.7.2.2.4.2[FS] |
| 1.7.2.2.4.2 | Perform standalone board tests | Complete | 30d | 15Apr10 15Jun10 | 19Jun09 31Jul09 | None | | None | | 1.7.2.2.4.1[FS]; 1.7.2.2.3.6[FS]; 2.7.2.2.8[FS] | 1.7.2.2.4.3[FS] |
| 1.7.2.2.4.3 | Perform interface tests | Complete | 20d | 15Jun10 27Jul10 | 01Dec09 30Dec09 | None | | None | | 1.7.2.2.4.2[FS] | 1.7.2.2.4.4[FS] |
| 1.7.2.2.4.4 | Control and timing prototype tests completed | Complete | 0 | 15Apr11 15Apr11 | 30Dec09 30Dec09 | None | | None | | 1.7.2.2.4.3[FS] | 1.8.5.7.9[FS]; 1.7.7.3.4.1[FS] |
| 1.7.2.3 | Network | Complete | 252d | 15Oct09 15Oct10 | 02Feb09 30Apr09 | None | | None | | | |
| 1.7.2.3.1 | Requirements | Complete | 76d | 15Oct09 08Feb10 | 02Feb09 05Mar09 | None | | None | | | |
| 1.7.2.3.1.1 | Prepare requirements document | Complete | 19d | 15Oct09 01Feb10 | 02Feb09 26Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.2.1.4.4[FS] | 1.7.2.3.1.2[FS] |
| 1.7.2.3.1.2 | Review requirements | Complete | 5d | 02Feb10 08Feb10 | 27Feb09 05Mar09 | None | | None | | 1.7.2.3.1.1[FS] | 1.7.2.3.1.3[FS] |
| 1.7.2.3.1.3 | Requirements approved | Complete | 0 | 08Feb10 08Feb10 | 05Mar09 05Mar09 | None | | None | | 1.7.2.3.1.2[FS] | 1.7.2.3.3[FS]; 1.7.2.3.2[FS] |
| 1.7.2.3.2 | Order network test equipment | Complete | 10d | 15Mar10 22Mar10 | 06Mar09 19Mar09 | None | | None | | 1.7.2.3.1.3[FS] | 1.7.2.3.4[FS+10d] |
| 1.7.2.3.3 | Order evaluation network equipment | Complete | 10d | 08Feb10 18Feb10 | 06Mar09 19Mar09 | None | | None | | 1.7.2.3.1.3[FS] | 1.7.2.3.4[FS+10d] |
| 1.7.2.3.4 | Evaluation components received | Complete | 0 | 15Apr10 15Apr10 | 02Apr09 02Apr09 | None | | None | | 1.7.2.3.2[FS+10d]; 1.7.2.3.3[FS+10d] | 1.7.2.3.5[FS] |
| 1.7.2.3.5 | Test evaluation components | Complete | 20d | 14May10 15Oct10 | 03Apr09 30Apr09 | None | | None | | 1.7.2.3.4[FS] | 1.7.2.4.1.1[FS]; 1.7.7.2.1.2[FS]; 1.7.7.2.1.3[FS] |
| 1.7.2.4 | Control Room Equipment and Infrastucture | Complete | 197d | 15Oct09 29Jul10 | 01May09 05Feb10 | None | | None | | | |
| 1.7.2.4.1 | Requirements | Complete | 76d | 15Oct09 08Feb10 | 01May09 05Jun09 | None | | None | | | |
| 1.7.2.4.1.1 | Prepare requirements document | Complete | 20d | 15Oct09 02Feb10 | 01May09 29May09 | None | | None | | 1.7.2.3.5[FS] | 1.7.2.4.1.2[FS] |
| 1.7.2.4.1.2 | Review requirements | Complete | 5d | 02Feb10 08Feb10 | 01Jun09 05Jun09 | None | | None | | 1.7.2.4.1.1[FS] | 1.7.2.4.1.3[FS] |
| 1.7.2.4.1.3 | Requirements approved | Complete | 0 | 08Feb10 08Feb10 | 05Jun09 05Jun09 | None | | None | | 1.7.2.4.1.2[FS] | 1.7.2.4.2[FS] |
| 1.7.2.4.2 | Order evaluation components | Complete | 10d | 08Feb10 18Feb10 | 08Jun09 19Jun09 | None | | None | | 1.7.2.4.1.3[FS] | 1.7.2.4.3[FS+10d] |
| 1.7.2.4.3 | Evaluation components received | Complete | 0 | 15Apr10 15Apr10 | 06Jul09 06Jul09 | None | | None | | 1.7.2.4.2[FS+10d] | 1.7.2.4.4[FS] |
| 1.7.2.4.4 | Test evaluation components | Complete | 40d | 01Jul10 29Jul10 | 07Dec09 05Feb10 | None | | None | | 1.7.2.4.3[FS] | 1.7.2.5.1.1[FS] |
| 1.7.2.5 | Buffer Farm | Complete | 252d | 15Oct09 15Oct10 | 01Sep09 03Dec09 | None | | None | | | |
| 1.7.2.5.1 | Requirements | Complete | 95d | 15Oct09 05Mar10 | 01Sep09 06Oct09 | None | | None | | | |
| 1.7.2.5.1.1 | Prepare requirements document | Complete | 20d | 15Oct09 26Feb10 | 01Sep09 29Sep09 | None | | None | | 1.7.2.4.4[FS] | 1.7.2.5.1.2[FS] |
| 1.7.2.5.1.2 | Review requirements | Complete | 5d | 01Mar10 05Mar10 | 30Sep09 06Oct09 | None | | None | | 1.7.2.5.1.1[FS] | 1.7.2.5.1.3[FS] |
| 1.7.2.5.1.3 | Requirements approved | Complete | 0 | 05Mar10 05Mar10 | 06Oct09 06Oct09 | None | | None | | 1.7.2.5.1.2[FS] | 1.7.2.5.2[FS] |
| 1.7.2.5.2 | Order evaluation components | Complete | 10d | 08Mar10 15Mar10 | 07Oct09 20Oct09 | None | | None | | 1.7.2.5.1.3[FS] | 1.7.2.5.3[FS+10d] |
| 1.7.2.5.3 | Evaluation components received | Complete | 0 | 15Jun10 15Jun10 | 03Nov09 03Nov09 | None | | None | | 1.7.2.5.2[FS+10d] | 1.7.2.5.4[FS] |
| 1.7.2.5.4 | Test evaluation components | Complete | 20d | 04Oct10 15Oct10 | 04Nov09 03Dec09 | None | | None | | 1.7.2.5.3[FS] | 1.7.2.6.1.1[FS] |
| 1.7.2.6 | Data Storage | Complete | 252d | 15Oct09 15Oct10 | 04Dec09 11Mar10 | None | | None | | | |
| 1.7.2.6.1 | Requirements | Complete | 95d | 15Oct09 05Mar10 | 04Dec09 13Jan10 | None | | None | | | |
| 1.7.2.6.1.1 | Prepare requirements document | Complete | 20d | 15Oct09 26Feb10 | 04Dec09 06Jan10 | None | | None | | 1.7.2.5.4[FS] | 1.7.2.6.1.2[FS] |
| 1.7.2.6.1.2 | Review requirements | Complete | 5d | 01Mar10 05Mar10 | 07Jan10 13Jan10 | None | | None | | 1.7.2.6.1.1[FS] | 1.7.2.6.1.3[FS] |
| 1.7.2.6.1.3 | Requirements approved | Complete | 0 | 05Mar10 05Mar10 | 13Jan10 13Jan10 | None | | None | | 1.7.2.6.1.2[FS] | 1.7.2.6.2[FS] |
| 1.7.2.6.2 | Order evaluation components | Complete | 10d | 08Mar10 15Mar10 | 14Jan10 28Jan10 | None | | None | | 1.7.2.6.1.3[FS] | 1.7.2.6.3[FS+10d] |
| 1.7.2.6.3 | Evaluation components received | Complete | 0 | 15Apr10 15Apr10 | 11Feb10 11Feb10 | None | | None | | 1.7.2.6.2[FS+10d] | 1.7.2.6.4[FS] |
| 1.7.2.6.4 | Test evaluation components | Complete | 20d | 04Oct10 15Oct10 | 12Feb10 11Mar10 | None | | None | | 1.7.2.6.3[FS] | 1.7.2.7.1.1[FS] |
| 1.7.2.7 | Cabling | Complete | 162d | 01Mar10 15Oct10 | 12Mar10 29Apr10 | None | | None | | | |
| 1.7.2.7.1 | Requirements | Complete | 34d | 01Mar10 15Apr10 | 12Mar10 25Mar10 | None | | None | | | |
| 1.7.2.7.1.1 | Prepare requirements document | Complete | 5d | 01Mar10 15Apr10 | 12Mar10 18Mar10 | None | | None | | 1.7.2.6.4[FS] | 1.7.2.7.1.2[FS] |
| 1.7.2.7.1.2 | Review requirements | Complete | 5d | 05Mar10 15Apr10 | 19Mar10 25Mar10 | None | | None | | 1.7.2.7.1.1[FS] | 1.7.2.7.1.3[FS] |
| 1.7.2.7.1.3 | Requirements approved | Complete | 0 | 15Apr10 15Apr10 | 25Mar10 25Mar10 | None | | None | | 1.7.2.7.1.2[FS] | 1.7.2.7.2[FS] |
| 1.7.2.7.2 | Order evaluation components | Complete | 10d | 08Mar10 30Sep10 | 26Mar10 08Apr10 | None | | None | | 1.7.2.7.1.3[FS] | 1.7.2.7.3[FS+10d] |
| 1.7.2.7.3 | Evaluation components received | Complete | 0 | 04Oct10 15Oct10 | 22Apr10 22Apr10 | None | | None | | 1.7.2.7.2[FS+10d] | 1.7.2.7.4[FS] |
| 1.7.2.7.4 | Test evaluation components | Complete | 5d | 04Oct10 15Oct10 | 23Apr10 29Apr10 | None | | None | | 1.7.2.7.3[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.2.8 | Databases | Complete | 23d | 01Oct07 31Oct07 | 01May07 26Jun07 | None | | None | | | |
| 1.7.2.8.1 | Procure database computers | Complete | 40d | 01Oct07 31Oct07 | 01May07 26Jun07 | None | | None | | 1.7.1.10.1.2.3[FS] | |
| 1.7.3 | Integration (OBSOLETE) | Complete | 4d | 02Nov09 05Nov09 | 20Mar09 05Nov09 | None | | None | | | |
| 1.7.3.1 | Install and test integration test facility (ITF) (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 20Mar09 16Apr09 | None | | None | | | 1.7.3.3.2[FS]; 1.7.3.2.1[FS]; 1.7.3.4.3[FS]; 1.7.3.4.1[FS]; 1.7.3.3.1[FS]; 1.7.3.3.3[FS]; 1.7.3.4.2[FS] |
| 1.7.3.2 | Buffer Farm Evaluation (OBSOLETE) | Complete | 3d | 03Nov09 05Nov09 | 07Oct09 05Nov09 | None | | None | | | |
| 1.7.3.2.1 | Write performance requirements and benchmark tests document (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 07Oct09 03Nov09 | None | | None | | 1.7.3.1[FS] | 1.7.3.2.2[FS] |
| 1.7.3.2.2 | Write benchmark tests (OBSOLETE) | Complete | 1d | 04Nov09 04Nov09 | 04Nov09 04Nov09 | None | | None | | 1.7.3.2.1[FS] | 1.7.3.2.3[FS] |
| 1.7.3.2.3 | Perform benchmark tests (OBSOLETE) | Complete | 1d | 05Nov09 05Nov09 | 05Nov09 05Nov09 | None | | None | | 1.7.3.2.2[FS] | |
| 1.7.3.3 | Readout Electronics Integration Testing (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 17Apr09 03Nov09 | None | | None | | | |
| 1.7.3.3.1 | Integrate data concentrators (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 17Apr09 13Jul09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.3.2 | Integrate data and control network (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 01May09 27Jul09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.3.3 | Integrate timing system (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 03Nov09 03Nov09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.4 | Software Integration Testing (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 17Apr09 13Jul09 | None | | None | | | |
| 1.7.3.4.1 | Integrate RCS single node (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 17Apr09 13Jul09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.4.2 | Integrate event building (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 17Apr09 12Jun09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.4.3 | Integrate trigger (OBSOLETE) | Complete | 1d | 03Nov09 03Nov09 | 14May09 10Jul09 | None | | None | | 1.7.3.1[FS] | |
| 1.7.3.5 | Consultation (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 02Nov09 02Nov09 | None | | None | | | |
| 1.7.4 | Detector Control System | Complete | 1299d | 01Aug06 30Sep11 | 05May07 02Jul10 | None | | None | | | |
| 1.7.4.3 | Detector Control System Evaluation | Complete | 813d | 20Dec06 20Mar10 | 05May07 15Mar10 | None | | None | | | |
| 1.7.4.3.5 | Detector Controls System Prototype Hardware Procurement | Complete | 759d | 13Mar07 20Mar10 | 15Mar10 15Mar10 | None | | None | | | 1.7.4.3.6[FS] |
| 1.7.4.3.5.10 | Purchase prototype detector controls channel server computer - on-project | Complete | 1d | 15Mar10 20Mar10 | 15Mar10 15Mar10 | None | | None | | | |
| 1.7.4.3.5.11 | Purchase prototype readout interface boards for channel server - on-project | Complete | 1d | 15Mar10 20Mar10 | 15Mar10 15Mar10 | None | | None | | | |
| 1.7.4.3.6 | Develop detector controls test stand | Complete | 9d | 05May07 28Dec07 | 05May07 28Dec07 | None | | None | | 1.7.4.3.5[FS] | 1.7.4.3.7[FS] |
| 1.7.4.3.7 | Develop detector controls test stand - Part 2 | Complete | 10d | 31Aug09 15Feb10 | 02Feb09 13Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.4.3.6[FS] | 1.7.7.3.3.3[FS]; 1.7.4.4.2.4[FS]; 1.7.4.4.2.2[FS]; 1.7.4.4.1[FS]; 1.7.4.4.2.3[FS]; 1.7.4.4.2.5[FS]; 1.7.4.4.2.6[FS]; 1.7.4.4.2.1[FS] |
| 1.7.4.4 | Detector Control Software Configuration For Experiment | Complete | 1074d | 01Jun07 08Sep11 | 01Jun07 13Mar09 | None | | None | | | 1.7.4.5.1[FS]; 1.7.4.5.2[FS]; 1.7.4.5.3[FS] |
| 1.7.4.4.1 | Develop channel server master (EPICs) | Complete | 6d | 10Jun07 28Dec07 | 10Jun07 28Dec07 | None | | None | | 1.7.4.3.7[FS]; 1.7.4.3.4[FS] | 1.7.4.4.4.1[FS]; 1.7.4.4.5[FS]; 1.7.4.4.4.3[FS]; 1.7.4.4.4.2[FS] |
| 1.7.4.4.2 | Channel Server Master IOC (input output controller) Modules Development | Complete | 899d | 01Jun07 30Dec10 | 01Jun07 03Mar09 | None | | None | | | |
| 1.7.4.4.2.1 | Develop DCM IOC | Complete | 2d | 01Jun07 28Dec07 | 01Jun07 28Dec07 | None | | None | | 1.7.4.3.5.4[FS]; 1.7.4.3.7[FS] | 1.7.4.4.2.7[FS]; 1.7.4.4.4.1[FS] |
| 1.7.4.4.2.2 | Develop FEB IOC | Complete | 2d | 01Jun07 28Dec07 | 01Jun07 28Dec07 | None | | None | | 1.7.4.3.7[FS]; 1.7.4.3.5.5[FS] | 1.7.4.4.2.8[FS]; 1.7.4.4.4.1[FS] |
| 1.7.4.4.2.3 | Develop HV IOC | Complete | 1d | 01Jun07 28Dec07 | 01Jun07 28Dec07 | None | | None | | 1.7.4.3.7[FS]; 1.7.4.3.5.6[FS] | 1.7.4.4.4.1[FS]; 1.7.4.4.2.9[FS] |
| 1.7.4.4.2.4 | Develop LV IOC | Complete | 1d | 01Jun07 28Dec07 | 01Jun07 28Dec07 | None | | None | | 1.7.4.3.7[FS]; 1.7.4.3.5.7[FS] | 1.7.4.4.4.1[FS]; 1.7.4.4.2.10[FS] |
| 1.7.4.4.2.5 | Develop water cooling IOC | Complete | 10d | 01Nov10 30Nov10 | 16Feb09 27Feb09 | None | | None | | 1.7.4.3.5.8[FS]; 1.7.4.3.7[FS] | 1.7.4.4.4.1[FS] |
| 1.7.4.4.2.6 | Develop enviromental sensors IOC | Complete | 3d | 15Dec07 28Dec07 | 15Dec07 28Dec07 | None | | None | | 1.7.4.3.5.9[FS]; 1.7.4.3.7[FS] | 1.7.4.4.4.1[FS]; 1.7.4.4.2.11[FS] |
| 1.7.4.4.2.7 | Develop DCM IOC - Part 2 | Complete | 8d | 08Nov10 30Dec10 | 16Feb09 25Feb09 | None | | None | | 1.7.4.4.2.1[FS]; 2.10.9.7[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.2.8 | Develop FEB IOC - Part 2 | Complete | 8d | 08Nov10 30Dec10 | 16Feb09 25Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.4.4.2.2[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.2.9 | Develop HV IOC - Part 2 | Complete | 3d | 16Feb10 18Feb10 | 16Feb09 18Feb09 | None | | None | | 2.10.9.7[FS]; 1.7.4.4.2.3[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.2.10 | Develop LV IOC - Part 2 | Complete | 3d | 16Feb10 18Feb10 | 16Feb09 18Feb09 | None | | None | | 1.7.4.4.2.4[FS]; 2.10.9.7[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.2.11 | Develop enviromental sensors IOC - Part 2 | Complete | 12d | 11Jun10 11Jun10 | 16Feb09 03Mar09 | None | | None | | 1.7.4.4.2.6[FS]; 2.10.9.7[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.3 | Detector Controls System Intergration On Test Stand | Complete | 133d | 03Mar11 08Sep11 | 24Feb09 03Mar09 | None | | None | | | |
| 1.7.4.4.3.1 | Determine load scaling | Complete | 6d | 03Mar11 24Mar11 | 24Feb09 03Mar09 | None | | None | | 1.7.4.4.5[FS] | 1.7.4.4.4.2[FS]; 1.7.4.4.4.3[FS] |
| 1.7.4.4.3.2 | Develop system failure and fall over recovery | Complete | 5d | 01Sep11 08Sep11 | 24Feb09 02Mar09 | None | | None | | 1.7.4.4.5[FS] | 1.7.4.4.4.3[FS]; 1.7.4.4.4.4[FS] |
| 1.7.4.4.4 | Client Application Prototypes Development | Complete | 913d | 10Jul07 28Feb11 | 10Jul07 13Mar09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.4.4.4.1 | Develop individual system controls clients ("expert" clients) | Complete | 3d | 10Jul07 28Dec07 | 10Jul07 28Dec07 | None | | None | | 1.7.4.4.1[FS]; 1.7.4.4.2.6[FS]; 1.7.4.4.2.3[FS]; 1.7.4.4.2.4[FS]; 1.7.4.4.2.1[FS]; 1.7.4.4.2.5[FS]; 1.7.4.4.2.2[FS] | 1.7.4.4.4.5[FS] |
| 1.7.4.4.4.2 | Develop general intergrated basic controls clients | Complete | 1d | 10Jul07 28Dec07 | 10Jul07 28Dec07 | None | | None | | 1.7.4.4.3.1[FS]; 1.7.4.4.1[FS] | 1.7.4.4.4.6[FS] |
| 1.7.4.4.4.3 | Develop individual system alarm clients | Complete | 2d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.4.4.3.1[FS]; 1.7.4.4.3.2[FS]; 1.7.4.4.1[FS] | 1.7.4.4.4.7[FS] |
| 1.7.4.4.4.4 | Develop general intergrated alarms client | Complete | 1d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.4.4.3.2[FS] | 1.7.4.4.4.8[FS] |
| 1.7.4.4.4.5 | Develop individual system controls clients ("expert" clients) - Part 2 | Complete | 5d | 03Aug09 09Dec10 | 04Mar09 10Mar09 | None | | None | | 2.10.9.7[FS]; 1.7.4.4.4.1[FS]; 1.7.4.4.5[FS]; 1.7.4.4.2.10[FS]; 1.7.4.4.2.11[FS]; 1.7.4.4.2.7[FS]; 1.7.4.4.2.9[FS]; 1.7.4.4.2.8[FS] | 1.7.4.5.1[FS] |
| 1.7.4.4.4.6 | Develop general intergrated basic controls clients - Part 2 | Complete | 7d | 15Jul10 21Dec10 | 04Mar09 12Mar09 | None | | None | | 2.10.9.7[FS]; 1.7.4.4.4.2[FS]; 1.7.4.4.5[FS] | 1.7.4.5.1[FS] |
| 1.7.4.4.4.7 | Develop individual system alarm clients - Part 2 | Complete | 8d | 05Aug10 30Dec10 | 04Mar09 13Mar09 | None | | None | | 1.7.4.4.4.3[FS]; 2.10.9.7[FS]; 1.7.4.4.5[FS] | 1.7.4.5.1[FS] |
| 1.7.4.4.4.8 | Develop general intergrated alarms client - Part 2 | Complete | 7d | 07Feb11 28Feb11 | 03Mar09 11Mar09 | None | | None | | 1.7.4.4.4.4[FS]; 2.10.9.7[FS] | 1.7.4.5.1[FS] |
| 1.7.4.4.5 | Develop channel server master (EPICs) - Part 2 | Complete | 6d | 01Apr11 31May11 | 16Feb09 23Feb09 | None | | None | | 1.7.4.4.1[FS]; 2.10.9.7[FS] | 1.7.4.4.3.1[FS]; 1.7.4.4.4.5[FS]; 1.7.4.4.4.7[FS]; 1.7.4.4.4.6[FS]; 1.7.4.4.3.2[FS] |
| 1.7.4.5 | Detector Controls Graphical User Interfaces Development | Complete | 167d | 24Jun10 23Feb11 | 16Mar09 06May09 | None | | None | | | 1.7.4.7.1[FS]; 1.7.4.6[FS] |
| 1.7.4.5.1 | Develop detector controls monitoring GUI | Complete | 30d | 24Jun10 22Dec10 | 16Mar09 24Apr09 | None | | None | | 1.7.4.4[FS]; 1.7.4.4.4.7[FS]; 1.7.4.4.4.5[FS]; 1.7.4.4.4.6[FS]; 1.7.4.4.4.8[FS] | 1.7.4.5.2[FS]; 1.7.4.5.3[FS] |
| 1.7.4.5.2 | Develop detector controls logging and history GUI | Complete | 8d | 24Jun10 22Dec10 | 27Apr09 06May09 | None | | None | | 1.7.4.5.1[FS]; 1.7.4.4[FS] | |
| 1.7.4.5.3 | Develop detector controls remote inspect client (web browser based) | Complete | 5d | 10Feb11 23Feb11 | 27Apr09 01May09 | None | | None | | 1.7.4.4[FS]; 1.7.4.5.1[FS] | |
| 1.7.4.6 | Develop detector control diagnostics and test suite | Complete | 15d | 15Jul10 22Dec10 | 07May09 28May09 | None | | None | | 1.7.4.5[FS] | 1.7.4.8.7[FS]; 1.7.4.8.2[FS]; 1.7.4.7.1[FS]; 1.7.4.8.5[FS]; 1.7.4.8.3[FS]; 1.7.4.8.6[FS]; 1.7.4.8.4[FS]; 1.7.4.7.2[FS]; 1.7.4.8.1[FS] |
| 1.7.4.7 | User and Expert Level System Documentation | Complete | 11d | 01Mar11 15Mar11 | 29May09 05Jun09 | None | | None | | | 1.7.4.9[FS] |
| 1.7.4.7.1 | Write detector controls user documentation | Complete | 6d | 01Mar11 15Mar11 | 29May09 05Jun09 | None | | None | | 1.7.4.5[FS]; 1.7.4.6[FS] | |
| 1.7.4.7.2 | Write system monitoring user documentation | Complete | 4d | 01Mar11 15Mar11 | 29May09 03Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8 | Detector Control System Tests And Verification For Release | Complete | 82d | 04Feb11 31May11 | 29May09 11Jun09 | None | | None | | | 1.7.4.9[FS] |
| 1.7.4.8.1 | Perform high voltage controls and monitoring verification for release | Complete | 2d | 04Feb11 18Feb11 | 29May09 01Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.2 | Perform low voltage controls and monitoring verification for release | Complete | 2d | 04Feb11 18Feb11 | 29May09 01Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.3 | Perform DCM controls and monitoring verification for release | Complete | 2d | 01Mar11 31May11 | 29May09 01Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.4 | Perform FEB controls and monitoring verification for release | Complete | 2d | 01Mar11 31May11 | 29May09 01Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.5 | Perform water cooling system controls and monitoring verification for release | Complete | 4d | 04Feb11 18Feb11 | 29May09 03Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.6 | Perform enviromental system controls and monitoring verification for release | Complete | 10d | 04Feb11 18Feb11 | 29May09 11Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.8.7 | Perform logging and database intergration verification for release | Complete | 5d | 04Feb11 18Feb11 | 29May09 04Jun09 | None | | None | | 1.7.4.6[FS] | |
| 1.7.4.9 | Review detector control system software, tests and documentation for first release | Complete | 1d | 15Mar11 08Sep11 | 12Jun09 12Jun09 | None | | None | | 1.7.4.8[FS]; 1.7.4.7[FS] | 1.7.4.10[FS]; 1.7.4.11[FS] |
| 1.7.4.10 | Perform security audit for detector control system | Complete | 10d | 08Sep11 23Sep11 | 15Jun09 26Jun09 | None | | None | | 1.7.4.9[FS] | |
| 1.7.4.11 | Detector control system released | Complete | 0 | 30Sep11 30Sep11 | 12Jun09 12Jun09 | None | | None | | 1.7.4.9[FS] | 1.7.4.12.1[FS] |
| 1.7.4.12 | Detector Control System Procurement and Fabrication (IPND) | Complete | 394d | 12Mar10 30Sep11 | 15Jun09 02Jul10 | None | | None | | | |
| 1.7.4.12.1 | Procure detector controls counting house computing hardware and infrastructure (IPND) | Complete | 90d | 12Mar10 15Apr10 | 15Jun09 20Oct09 | None | | None | | 1.7.4.11[FS] | 1.7.4.12.2[SS]; 1.7.4.12.3.1[FS]; 1.7.4.12.3.2[FS]; 1.7.4.12.3.3[FS] |
| 1.7.4.12.2 | Procure detector controls readout systems and sensor packs (IPND) | Complete | 90d | 15Mar10 15Apr10 | 15Jun09 20Oct09 | None | | None | | 1.7.4.12.1[SS] | 1.7.4.12.4.4[FS]; 1.7.4.12.4.3[FS]; 1.7.4.12.4.2[FS] |
| 1.7.4.12.3 | Detector Controls Computing Setup (IPND) | Complete | 25d | 24Jun10 29Jul10 | 21Oct09 02Nov09 | None | | None | | | |
| 1.7.4.12.3.1 | Setup and configure DCS master server | Complete | 5d | 24Jun10 29Jul10 | 21Oct09 27Oct09 | None | | None | | 1.7.4.12.1[FS] | 1.7.4.12.3.4[FS] |
| 1.7.4.12.3.2 | Setup and configure DCS readout servers | Complete | 5d | 24Jun10 29Jul10 | 21Oct09 27Oct09 | None | | None | | 1.7.4.12.1[FS] | 1.7.4.12.3.4[FS] |
| 1.7.4.12.3.3 | Setup and configure DCSNet for IPND | Complete | 2d | 24Jun10 29Jul10 | 21Oct09 22Oct09 | None | | None | | 1.7.4.12.1[FS] | 1.7.4.12.3.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.4.12.3.4 | Install servers and switches in IPND electronics and control facilities | Complete | 4d | 24Jun10 29Jul10 | 28Oct09 02Nov09 | None | | None | | 1.7.4.12.3.1[FS]; 1.7.4.12.3.2[FS]; 1.7.4.12.3.3[FS] | |
| 1.7.4.12.4 | Detector Controls Readout Systems Setup (IPND) | Complete | 126d | 24Jun10 22Dec10 | 27May10 02Jun10 | None | | None | | | |
| 1.7.4.12.4.1 | Setup water cooling monitors and sensors | Complete | 2d | 08Nov10 15Nov10 | 27May10 28May10 | None | | None | | 1.8.5.7.14.3[SS] | 1.7.4.12.4.2[SS]; 1.7.4.12.5[FS] |
| 1.7.4.12.4.2 | Setup power supply monitors and sensors | Complete | 2d | 24Jun10 29Jul10 | 27May10 28May10 | None | | None | | 1.7.4.12.4.1[SS]; 1.7.4.12.2[FS] | 1.7.4.12.4.3[SS]; 1.7.4.12.5[FS] |
| 1.7.4.12.4.3 | Setup general environmental and detector sensors | Complete | 4d | 24Jun10 30Sep10 | 27May10 02Jun10 | None | | None | | 1.7.4.12.4.2[SS]; 1.7.4.12.2[FS] | 1.7.4.12.4.4[SS]; 1.7.4.12.5[FS] |
| 1.7.4.12.4.4 | Setup DCM/FEB monitors | Complete | 2d | 10Aug10 22Dec10 | 27May10 28May10 | None | | None | | 1.7.4.12.4.3[SS]; 1.7.4.12.2[FS] | 1.7.4.12.5[FS] |
| 1.7.4.12.5 | Test DCS systems on IPND | Complete | 10d | 24Jun10 22Dec10 | 03Jun10 16Jun10 | None | | None | | 1.7.4.12.4.2[FS]; 1.7.4.12.4.1[FS]; 1.7.4.12.4.4[FS]; 1.7.4.12.4.3[FS] | 1.7.4.12.6[FS] |
| 1.7.4.12.6 | Certify DCS for production operations | Complete | 10d | 30Sep11 30Sep11 | 17Jun10 30Jun10 | None | | None | | 1.7.4.12.5[FS] | 1.7.4.12.7[FS] |
| 1.7.4.12.7 | Conduct DCS production readiness review | Complete | 2d | 30Sep11 30Sep11 | 01Jul10 02Jul10 | None | | None | | 1.7.4.12.6[FS] | |
| 1.7.5 | Management - R&D Phase | Complete | 1651d | 03Oct05 30Apr12 | 01May07 28Dec07 | None | | None | | | |
| 1.7.5.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.7.5.2.2 | 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Apr07 | None | | | |
| 1.7.5.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.7.5.2.1.1[FS] | 1.7.5.3.1[FS] |
| 1.7.5.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.7.5.2.1.2[FS] | 1.7.5.3.2[FS] |
| 1.7.5.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.7.5.2.1.3[FS] | 1.7.5.3.3[FS] |
| 1.7.5.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.7.5.2.1.4[FS] | 1.7.5.3.4[FS] |
| 1.7.5.3 | FY08 | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | | |
| 1.7.5.3.1 | Labor | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.5.2.2.1[FS] | |
| 1.7.5.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.5.2.2.2[FS] | |
| 1.7.5.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.5.2.2.3[FS] | |
| 1.7.5.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.7.5.2.2.4[FS] | |
| 1.7.5.5 | Post CD-1 DAQ R&D Cost Account | Complete | 106d | 01May07 30Apr12 | 01May07 28Sep07 | None | | None | | | |
| 1.7.6 | Operate IPND | Complete | 250d | 03Jan11 16Apr12 | 13Jul10 08Jul11 | None | | None | | 1.8.5.7.11[FS] | 2.6.3.3.5[SS+63d]; 2.6.3.4.1[SS+63d]; 2.6.3.3.6[SS+63d]; 2.6.3.3.4[SS+63d]; 2.6.2.8.1[SS+40d]; 2.6.3.3.3[SS+63d]; 2.6.3.2.1[SS+63d]; 2.6.3.1.2[SS+63d]; 2.6.3.1.3[SS+63d]; 2.6.3.3.2[SS+63d]; 2.6.3.3.1[SS+63d]; 2.6.2.1.6[SS+40d]; 2.6.2.1.1.3.1.1.1[SS+40d]; 2.6.2.1.4[SS+105d]; 2.6.2.6[SS+40d]; 2.6.2.1.1.1[SS+63d]; 2.6.2.1.5[SS+105d]; 2.6.2.5.1.2.1[SS+40d]; 2.6.2.5.1.1.1[SS+40d]; 2.6.2.5.1.2.2[SS+40d]; 1.6.1.7.8.2.1.1[SS]; 1.6.1.7.8.2.1.2[SS]; 2.6.2.1.7.1[SS+63d]; 1.6.1.7.8.2.1.3[SS] |
| 1.7.7 | Integration | Complete | 502d | 02Nov09 31Oct11 | 02Nov09 19Sep11 | None | | None | | | |
| 1.7.7.1 | Design, procure, install, and test integration test facility (ITF) | Complete | 413d | 02Nov09 24Jun11 | 02Nov09 10Jun10 | None | | None | | | |
| 1.7.7.1.1 | Software Infrastructure Integration | Complete | 30d | 02Nov09 15Dec09 | 02Nov09 02Dec09 | None | | None | | | |
| 1.7.7.1.1.1 | Integrate SRT into computing and development infrastructure | Complete | 20d | 02Nov09 30Nov09 | 02Nov09 01Dec09 | None | | None | | | 1.7.7.1.1.2[SS]; 1.7.7.1.1.5[FS] |
| 1.7.7.1.1.2 | Integrate existing pacakages into SRT development environment | Complete | 20d | 02Nov09 30Nov09 | 02Nov09 01Dec09 | None | | None | | 1.7.7.1.1.1[SS] | 1.7.7.1.1.5[FS]; 1.7.7.1.1.3[SS] |
| 1.7.7.1.1.3 | Integrate external packages into NOVA DAQ environment | Complete | 20d | 02Nov09 30Nov09 | 02Nov09 01Dec09 | None | | None | | 1.7.7.1.1.2[SS] | 1.7.7.1.1.5[FS]; 1.7.7.1.1.4[SS] |
| 1.7.7.1.1.4 | Integrate code management tools into NOVA DAQ environment | Complete | 20d | 16Nov09 15Dec09 | 02Nov09 01Dec09 | None | | None | | 1.7.7.1.1.3[SS] | 1.7.7.1.1.5[FS] |
| 1.7.7.1.1.5 | Release Integrated Software Environment | Complete | 0 | 15Dec09 15Dec09 | 02Dec09 02Dec09 | None | | None | | 1.7.7.1.1.2[FS]; 1.7.7.1.1.3[FS]; 1.7.7.1.1.1[FS]; 1.7.7.1.1.4[FS] | 1.7.7.1.2.12[FS+60d]; 1.7.7.3.4.1[FS]; 1.7.7.4.2[FS]; 1.7.7.4.8[FS]; 1.7.7.1.2.10[FS+60d]; 1.7.7.1.2.1[FS+60d]; 1.7.7.1.2.11[FS+60d]; 1.7.7.1.2.2[FS+60d]; 1.7.7.1.2.9[FS+60d]; 1.7.7.1.2.3[FS+60d]; 1.7.7.1.2.5[FS+60d]; 1.7.7.1.2.8[FS+60d]; 1.7.7.1.2.6[FS+60d]; 1.7.7.1.2.7[FS+60d]; 1.7.7.1.2.4[FS+60d] |
| 1.7.7.1.2 | Write Test Plan for Integration | Complete | 364d | 18Jan10 24Jun11 | 03Mar10 16Mar10 | None | | None | | | |
| 1.7.7.1.2.1 | Benchmark and performance tests - Buffer farm | Complete | 10d | 15Nov10 22Nov10 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.2 | Benchmark and performance tests for network DAQ switch arrays | Complete | 10d | 05May11 12May11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.3 | Benchmark and performance tests for general networking and connectivity | Complete | 10d | 29Apr10 17Nov10 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.7.1.2.4 | Benchmark and performance tests for network messaging systems | Complete | 10d | 28Apr10 05Dec10 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.5 | Benchmark and performance tests for FEB/DCM interfaces | Complete | 10d | 28Apr10 30Dec10 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.6 | Benchmark and performance tests for DCM/Buffer farm interface | Complete | 10d | 05May11 24Jun11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.7 | Benchmark and performance tests for event builder | Complete | 10d | 16May11 24Jun11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.8 | Benchmark and performance tests for datalogger | Complete | 10d | 16May11 24Jun11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.9 | Benchmark and performance tests for event builder data retrieval | Complete | 10d | 16May11 31May11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.10 | Benchmark and performance tests for data dispatcher | Complete | 10d | 18Jan10 21Jan10 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.11 | Benchmark and performance tests for file transfer system | Complete | 10d | 23May11 24Jun11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.12 | Benchmark and performance tests for buffer farm file DAQ chain | Complete | 10d | 16May11 24Jun11 | 03Mar10 16Mar10 | None | | None | | 1.7.7.1.1.5[FS+60d] | 1.7.7.1.2.13[FS] |
| 1.7.7.1.2.13 | Integration Test Plan Reviewed | Complete | 0 | 24Jun11 24Jun11 | 16Mar10 16Mar10 | None | | None | | 1.7.7.1.2.5[FS]; 1.7.7.1.2.10[FS]; 1.7.7.1.2.6[FS]; 1.7.7.1.2.4[FS]; 1.7.7.1.2.2[FS]; 1.7.7.1.2.3[FS]; 1.7.7.1.2.1[FS]; 1.7.7.1.2.8[FS]; 1.7.7.1.2.7[FS]; 1.7.7.1.2.9[FS]; 1.7.7.1.2.11[FS]; 1.7.7.1.2.12[FS] | 1.7.7.3.4.1[FS]; 1.7.7.4.2[FS]; 1.7.7.4.8[FS]; 1.7.7.2.1.4[FS]; 1.7.7.2.1.8[FS]; 1.7.7.2.1.7[FS]; 1.7.7.2.1.9[FS]; 1.7.7.2.1.1[FS]; 1.7.7.2.1.2[FS]; 1.7.7.2.1.6[FS]; 1.7.7.2.1.12[FS]; 1.7.7.2.1.3[FS]; 1.7.7.2.1.5[FS]; 1.7.7.2.1.10[FS] |
| 1.7.7.1.3 | Fabricate and Outfit Integration Test Facility | Complete | 118d | 02Nov09 23Apr10 | 02Nov09 10Jun10 | None | | None | | | |
| 1.7.7.1.3.1 | Design test/integration test stand | Complete | 60d | 02Nov09 12Feb10 | 02Nov09 02Feb10 | None | | None | | | 1.7.7.1.3.5[FS]; 1.7.7.1.3.4[FS]; 1.7.7.1.3.3[FS]; 1.7.7.1.3.2[FS] |
| 1.7.7.1.3.2 | Procure test equipment for integration test stand | Complete | 60d | 20Nov09 12Jan10 | 03Feb10 27Apr10 | None | | None | | 1.7.7.1.3.1[FS] | 1.7.7.1.3.6[FS] |
| 1.7.7.1.3.3 | Build and install front end board housing for integration tests | Complete | 20d | 20Dec09 24Mar10 | 03Feb10 02Mar10 | None | | None | | 1.7.7.1.3.1[FS] | 1.7.7.1.3.6[FS] |
| 1.7.7.1.3.4 | Build and install DCM board mounts for integration tests | Complete | 20d | 27Jan10 24Mar10 | 03Feb10 02Mar10 | None | | None | | 1.7.7.1.3.1[FS] | 1.7.7.1.3.6[FS] |
| 1.7.7.1.3.5 | Build DCM/PDB support structure for integration model and IPND (8) | Complete | 20d | 02Nov09 03Mar10 | 03Feb10 02Mar10 | None | | None | | 1.7.7.1.3.1[FS] | 1.7.7.1.3.6[FS] |
| 1.7.7.1.3.6 | Install components for integration test stand | Complete | 15d | 12Feb10 30Mar10 | 28Apr10 18May10 | None | | None | | 1.7.7.1.3.2[FS]; 1.7.7.1.3.5[FS]; 1.7.7.1.3.4[FS]; 1.7.7.1.3.3[FS] | 1.7.7.1.3.7[FS] |
| 1.7.7.1.3.7 | Wire test stand components for testing | Complete | 5d | 12Feb10 30Mar10 | 19May10 25May10 | None | | None | | 1.7.7.1.3.6[FS] | 1.7.7.1.3.8[FS] |
| 1.7.7.1.3.8 | Certify test stand for operation | Complete | 10d | 14Apr10 23Apr10 | 26May10 09Jun10 | None | | None | | 1.7.7.1.3.7[FS] | 1.7.7.1.3.9[FS] |
| 1.7.7.1.3.9 | Test Stand Released for Operations for IP/ND Testing | Complete | 0 | 23Apr10 23Apr10 | 10Jun10 10Jun10 | None | | None | | 1.7.7.1.3.8[FS]; 1.6.3.5.2.6[FS] | 1.7.7.3.4.1[FS]; 1.7.7.4.8[FS]; 1.7.7.4.2[FS] |
| 1.7.7.2 | DAQ Network and Buffer Farm - General Evaluation | Complete | 336d | 28Apr10 25Aug11 | 21Jan10 19Sep11 | None | | None | | | |
| 1.7.7.2.1 | Develop (program) Benchmark Test Suites for DAQ Subsystems | Complete | 336d | 28Apr10 25Aug11 | 21Jan10 19Sep11 | None | | None | | | |
| 1.7.7.2.1.1 | Develop test suite for Buffer farm | Complete | 20d | 10Aug10 15Nov10 | 21Jan10 17Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.1.6.4.1.6[FS] | 1.7.7.2.1.4[FS]; 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.2 | Develop test suite for network DAQ switch arrays | Complete | 20d | 10Aug10 15Nov10 | 29Jan10 25Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.2.3.5[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.3 | Develop test suite for general networking and connectivity | Complete | 20d | 10Aug10 22Nov10 | 29Jan10 25Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.2.3.5[FS] | 1.7.7.2.1.13[FS]; 1.7.7.2.1.4[FS] |
| 1.7.7.2.1.4 | Develop test suite for network messaging systems | Complete | 20d | 20Aug10 20Oct10 | 26Feb10 25Mar10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.1.3.4.8[FS]; 1.7.7.2.1.3[FS]; 1.7.7.2.1.1[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.5 | Develop test suite for FEB/DCM interfaces | Complete | 20d | 28Apr10 29Oct10 | 02Feb10 01Mar10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.2.1.6[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.6 | Develop test suite for DCM/Buffer farm interface | Complete | 20d | 15Jul10 29Oct10 | 21Jan10 17Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.1.6.4.1.6[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.7 | Develop test suite for event builder | Complete | 20d | 15Jul10 29Oct10 | 21Jan10 17Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.1.6.4.1.6[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.8 | Develop test suite for datalogger | Complete | 20d | 15Jul10 22Dec10 | 29Jun10 27Jul10 | None | | None | | 1.7.7.1.2.13[FS]; 2.7.1.5.8[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.9 | Develop test suite for event builder data retrieval | Complete | 20d | 15Jul10 29Oct10 | 21Jan10 17Feb10 | None | | None | | 1.7.7.1.2.13[FS]; 1.7.1.6.4.1.6[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.10 | Develop test suite for data dispatcher | Complete | 20d | 15Jul10 23Sep10 | 29Jun10 27Jul10 | None | | None | | 1.7.7.1.2.13[FS]; 2.7.1.5.8[FS] | 1.7.7.2.1.13[FS] |
| 1.7.7.2.1.11 | Develop test suite for file transfer system | Complete | 20d | 21Mar11 30Jun11 | 22Aug11 19Sep11 | None | | None | | 2.7.1.6.11[FS] | |
| 1.7.7.2.1.12 | Develop test suite for buffer farm file DAQ chain | Complete | 20d | 20Aug10 30Dec10 | 29Jun10 27Jul10 | None | | None | | 1.7.7.1.2.13[FS]; 2.7.1.5.8[FS] | 1.7.7.2.1.13[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.7.2.1.13 | Integration Test Suites Released For Testing | Complete | 0 | 25Aug11 25Aug11 | 28Jul10 28Jul10 | None | | None | | 1.7.7.2.1.3[FS]; 1.7.7.2.1.7[FS]; 1.7.7.2.1.6[FS]; 1.7.7.2.1.8[FS]; 1.7.7.2.1.9[FS]; 1.7.7.2.1.12[FS]; 1.7.7.2.1.10[FS]; 1.7.7.2.1.2[FS]; 1.7.7.2.1.4[FS]; 1.7.7.2.1.1[FS]; 1.7.7.2.1.5[FS] | 1.7.7.2.2.1[FS]; 1.7.7.2.2.3[FS]; 1.7.7.2.2.4[FS]; 1.7.7.2.2.8[FS]; 1.7.7.2.2.10[FS]; 1.7.7.2.2.7[FS]; 1.7.7.2.2.11[FS]; 1.7.7.2.2.6[FS]; 1.7.7.2.2.9[FS]; 1.7.7.2.2.2[FS]; 1.7.7.2.2.12[FS]; 1.7.7.2.2.5[FS] |
| 1.7.7.2.2 | Run Benchmark Test Suites for DAQ Subsystems | Complete | 66d | 24Sep10 30Dec10 | 28Jul10 08Sep10 | None | | None | | | |
| 1.7.7.2.2.1 | Run test suite for Buffer farm | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.2 | Run test suite for network DAQ switch arrays | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.3.3.1[FS]; 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.3 | Run test suite for general networking and connectivity | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.4 | Run test suite for network messaging systems | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.5 | Run test suite for FEB/DCM interfaces | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.3.2.1[FS]; 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.6 | Run test suite for DCM/Buffer farm interface | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.7 | Run test suite for event builder | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.8 | Run test suite for datalogger | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.9 | Run test suite for event builder data retrieval | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.10 | Run test suite for data dispatcher | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.11 | Run test suite for file transfer system | Complete | 20d | 15Oct10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.12 | Run test suite for buffer farm file DAQ chain | Complete | 20d | 24Sep10 17Dec10 | 28Jul10 24Aug10 | None | | None | | 1.7.7.2.1.13[FS] | 1.7.7.2.2.13[FS] |
| 1.7.7.2.2.13 | Review integration testing | Complete | 10d | 24Sep10 17Dec10 | 25Aug10 08Sep10 | None | | None | | 1.7.7.2.2.11[FS]; 1.7.7.2.2.12[FS]; 1.7.7.2.2.1[FS]; 1.7.7.2.2.7[FS]; 1.7.7.2.2.3[FS]; 1.7.7.2.2.8[FS]; 1.7.7.2.2.10[FS]; 1.7.7.2.2.2[FS]; 1.7.7.2.2.5[FS]; 1.7.7.2.2.9[FS]; 1.7.7.2.2.4[FS]; 1.7.7.2.2.6[FS] | 1.7.7.2.2.14[FS] |
| 1.7.7.2.2.14 | Certify subsystems have passed integration benchmarking | Complete | 0 | 30Dec10 30Dec10 | 08Sep10 08Sep10 | None | | None | | 1.7.7.2.2.13[FS] | |
| 1.7.7.3 | Readout Electronics Integration Testing | Complete | 267d | 07Dec09 30Dec10 | 02Dec09 17Nov10 | None | | None | | | |
| 1.7.7.3.1 | Power Supplies and Distribution System Integration | Complete | 132d | 20Dec09 30Jun10 | 02Dec09 09Feb10 | None | | None | | | |
| 1.7.7.3.1.1 | Integrate power with FEBs | Complete | 15d | 20Dec09 30Jun10 | 02Dec09 22Dec09 | None | | None | | 1.6.3.4.6[FS] | 1.7.7.3.1.2[FS] |
| 1.7.7.3.1.2 | Integrate power with DCMs | Complete | 15d | 20Dec09 30Jun10 | 23Dec09 19Jan10 | None | | None | | 1.7.7.3.1.1[FS] | 1.7.7.3.1.3[FS] |
| 1.7.7.3.1.3 | Integrate power with other components | Complete | 15d | 15Jun10 30Jun10 | 20Jan10 09Feb10 | None | | None | | 1.7.7.3.1.2[FS] | 1.7.7.3.1.4[FS] |
| 1.7.7.3.1.4 | Certify power suppplies integrated with IP/ND equipment | Complete | 0 | 30Jun10 30Jun10 | 09Feb10 09Feb10 | None | | None | | 1.7.7.3.1.3[FS] | |
| 1.7.7.3.2 | Data Concentrator Integration | Complete | 267d | 07Dec09 30Dec10 | 25Aug10 17Nov10 | None | | None | | | |
| 1.7.7.3.2.1 | Integrate front-end boards with DCM | Complete | 10d | 07Dec09 10Aug10 | 25Aug10 08Sep10 | None | | None | | 1.7.7.2.2.5[FS] | 1.7.7.3.2.2[FS] |
| 1.7.7.3.2.2 | Single FEB/DCM integration and testing | Complete | 10d | 29Apr10 30Sep10 | 09Sep10 22Sep10 | None | | None | | 1.7.7.3.2.1[FS] | 1.7.7.3.2.3[FS] |
| 1.7.7.3.2.3 | Multi FEB/DCM integration and testing | Complete | 20d | 19Aug10 30Sep10 | 23Sep10 20Oct10 | None | | None | | 1.7.7.3.2.2[FS] | 1.7.7.3.2.4[FS] |
| 1.7.7.3.2.4 | Full (64) FEB/DCM integration and testing | Complete | 20d | 24Sep10 30Nov10 | 21Oct10 17Nov10 | None | | None | | 1.7.7.3.2.3[FS] | 1.7.7.3.2.5[FS] |
| 1.7.7.3.2.5 | Certify FEB/DCM operations under integration | Complete | 0 | 30Dec10 30Dec10 | 17Nov10 17Nov10 | None | | None | | 1.7.7.3.2.4[FS] | |
| 1.7.7.3.3 | Data and Control Network Integration | Complete | 203d | 01Mar10 15Dec10 | 01Mar10 30Sep10 | None | | None | | | |
| 1.7.7.3.3.1 | Integrate single network switch layer (DAQNet) | Complete | 10d | 15Jun10 30Jun10 | 25Aug10 08Sep10 | None | | None | | 1.7.7.2.2.2[FS] | 1.7.7.3.3.2[FS]; 1.7.7.3.3.4[FS] |
| 1.7.7.3.3.2 | Integrate multi layer switch network | Complete | 5d | 15Jun10 15Jul10 | 09Sep10 15Sep10 | None | | None | | 1.7.7.3.3.1[FS] | 1.7.7.3.3.3[FS]; 1.7.7.3.3.4[FS] |
| 1.7.7.3.3.3 | Integrate controls network (DCSNet) | Complete | 10d | 15Jun10 30Jun10 | 16Sep10 29Sep10 | None | | None | | 1.7.7.3.3.2[FS]; 1.7.4.3.7[FS] | 1.7.7.3.3.4[FS] |
| 1.7.7.3.3.4 | Certify DAQ and DCS Operation Under Integration | Complete | 0 | 15Dec10 15Dec10 | 29Sep10 29Sep10 | None | | None | | 1.7.7.3.3.2[FS]; 1.7.7.3.3.1[FS]; 1.7.7.3.3.3[FS] | |
| 1.7.7.3.3.5 | Embedded systems engineering support | Complete | 151d | 01Mar10 30Sep10 | 01Mar10 30Sep10 | None | | None | | | |
| 1.7.7.3.4 | Timing System Integration | Complete | 128d | 15Jun10 15Dec10 | 10Jun10 22Jul10 | None | | None | | | |
| 1.7.7.3.4.1 | Integrate master timiing system in DAQ | Complete | 20d | 15Jun10 30Nov10 | 10Jun10 08Jul10 | None | | None | | 1.7.7.1.1.5[FS]; 1.7.7.1.3.9[FS]; 1.7.7.1.2.13[FS]; 1.7.2.2.4.4[FS] | 1.7.7.3.4.2[FS] |
| 1.7.7.3.4.2 | Integrate slave timiing system in DAQ | Complete | 10d | 15Jun10 10Dec10 | 09Jul10 22Jul10 | None | | None | | 1.7.7.3.4.1[FS] | 1.7.7.3.4.3[FS] |
| 1.7.7.3.4.3 | Certify Timing System Operation Under Integration | Complete | 0 | 15Dec10 15Dec10 | 22Jul10 22Jul10 | None | | None | | 1.7.7.3.4.2[FS] | |
| 1.7.7.4 | Software Integration Testing | Complete | 242d | 16Aug10 01Aug11 | 23Nov09 02Sep11 | None | | None | | | |
| 1.7.7.4.1 | Run Control System Integration | Complete | 74d | 16Aug10 30Nov10 | 04Dec09 06Jan10 | None | | None | | | |
| 1.7.7.4.1.1 | Integrate RCS - Single Node | Complete | 10d | 16Aug10 30Nov10 | 04Dec09 17Dec09 | None | | None | | 1.7.1.4.4.7[FS] | 1.7.7.4.1.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.7.7.4.1.2 | Integrate RCS - Multi Node | Complete | 10d | 16Aug10 30Nov10 | 18Dec09 06Jan10 | None | | None | | 1.7.7.4.1.1[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.2 | Integrate resource manager | Complete | 20d | 20Sep10 15Dec10 | 10Jun10 08Jul10 | None | | None | | 1.7.7.1.1.5[FS]; 1.7.7.1.2.13[FS]; 1.7.7.1.3.9[FS]; 1.7.1.4.4.7[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.3 | Message/Error Logger Integration | Complete | 33d | 16Aug10 30Sep10 | 08Nov10 07Dec10 | None | | None | | | |
| 1.7.7.4.3.1 | Integrate logger - single node | Complete | 10d | 16Aug10 30Sep10 | 08Nov10 19Nov10 | None | | None | | 1.7.1.2.4.8[FS] | 1.7.7.4.3.2[FS] |
| 1.7.7.4.3.2 | Integrate logger - multi node | Complete | 10d | 16Aug10 30Sep10 | 22Nov10 07Dec10 | None | | None | | 1.7.7.4.3.1[FS]; 1.8.5.7.14.3[SF] | 1.7.7.4.11[FS] |
| 1.7.7.4.4 | Integrate DAQ monitoring | Complete | 10d | 16Aug10 22Nov10 | 16Jun10 29Jun10 | None | | None | | 2.7.1.7.11[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.5 | Integrate data quality monitoring | Complete | 10d | 08Feb11 28Feb11 | 11Jul11 22Jul11 | None | | None | | 2.7.1.8.14[FS]; 2.7.1.9.14[FS] | |
| 1.7.7.4.6 | Integrate data logging | Complete | 30d | 30Sep10 22Nov10 | 29Jun10 10Aug10 | None | | None | | 2.7.1.5.8[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.7 | Integrate file transfer system | Complete | 10d | 19May11 28Jul11 | 22Aug11 02Sep11 | None | | None | | 2.7.1.6.11[FS] | |
| 1.7.7.4.8 | Integrate event building | Complete | 40d | 15Oct10 22Nov10 | 10Jun10 05Aug10 | None | | None | | 1.7.7.1.3.9[FS]; 1.7.7.1.1.5[FS]; 1.7.7.1.2.13[FS]; 1.7.1.6.4.1.6[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.9 | Trigger Integration | Complete | 207d | 05Oct10 01Aug11 | 14Jan10 04Mar10 | None | | None | | | |
| 1.7.7.4.9.1 | Integrate global trigger (single shot) with DAQ | Complete | 10d | 01Nov10 08Nov10 | 14Jan10 28Jan10 | None | | None | | 1.7.1.8.3.6[FS] | 1.7.7.4.9.2[FS] |
| 1.7.7.4.9.2 | Integrate pulse trigger with DAQ | Complete | 10d | 05Oct10 08Nov10 | 29Jan10 11Feb10 | None | | None | | 1.7.7.4.9.1[FS] | 1.7.7.4.9.3[FS] |
| 1.7.7.4.9.3 | Integrate GPS/Spill Server trigger with DAQ | Complete | 10d | 15Nov10 18Dec10 | 12Feb10 25Feb10 | None | | None | | 1.7.7.4.9.2[FS] | 1.7.7.4.9.4[FS] |
| 1.7.7.4.9.4 | Integrate data driven trigger (general) with DAQ (OBSOLETE)) | Complete | 5d | 01Aug11 01Aug11 | 26Feb10 04Mar10 | None | | None | | 1.7.7.4.9.3[FS] | 1.7.7.4.11[FS] |
| 1.7.7.4.10 | Integrate database systems | Complete | 30d | 18Feb11 28Feb11 | 23Nov09 11Jan10 | None | | None | | 2.7.1.10.2.3[FS] | |
| 1.7.7.4.11 | Certify Software Systems Integrated for IPND | Complete | 0 | 30Dec10 30Dec10 | 07Dec10 07Dec10 | None | | None | | 1.7.7.4.6[FS]; 1.7.7.4.4[FS]; 1.7.7.4.8[FS]; 1.7.7.4.3.2[FS]; 1.7.7.4.1.2[FS]; 1.7.7.4.2[FS]; 1.7.7.4.9.4[FS] | 1.7.7.5[FS] |
| 1.7.7.5 | Consultation | Complete | 190d | 01Mar11 31Oct11 | 08Dec10 08Sep11 | None | | None | | 1.7.7.7.4[FS]; 1.7.7.4.11[FS] | |
| 1.7.7.6 | Start IPND Operation-DAQ | Complete | 0 | 30Dec10 30Dec10 | 01Oct10 01Oct10 | None | | None | | | 2.7.2.8.1[SS+80d]; 2.7.2.4.1[SS+40d]; 2.7.2.3.1[SS+40d]; 2.7.2.7.1[SS+40d]; 2.7.2.5.1[SS+20d]; 2.7.2.1.2.4.1[SS+20d]; 2.7.2.6.1[SS+40d]; 2.7.2.2.1.1.1[SS+36d] |
| 1.7.7.7 | Software Environment Integration | Complete | 162d | 10May10 30Dec10 | 10May10 23Sep10 | None | | None | | | |
| 1.7.7.7.1 | Design test stand environment management | Complete | 40d | 10May10 16Aug10 | 10May10 06Jul10 | None | | None | | | 1.7.7.7.3[FS]; 1.7.7.7.2[FS] |
| 1.7.7.7.2 | Design and implement NDOS environment management | Complete | 20d | 16Aug10 30Nov10 | 07Jul10 03Aug10 | None | | None | | 1.7.7.7.1[FS] | |
| 1.7.7.7.3 | DDS server deployment | Complete | 20d | 16Aug10 28Sep10 | 07Jul10 03Aug10 | None | | None | | 1.7.7.7.1[FS] | |
| 1.7.7.7.4 | NDOS DAQ software integration and commissioning | Complete | 50d | 30Sep10 30Dec10 | 15Jul10 23Sep10 | None | | None | | | 1.7.7.5[FS] |
| 1.8 | Detector Assembly R&D | Complete | 1486d | 03Oct05 31Aug11 | 01May07 25May11 | None | | None | | | |
| 1.8.1 | Plane Assembly Adhesive R&D | Complete | 440d | 03Oct05 03Jul07 | 01May07 03Jul07 | None | | None | | | |
| 1.8.1.14 | Optimize adhesive application procedures - 2 | Complete | 45d | 01May07 03Jul07 | 01May07 03Jul07 | None | | None | | 1.8.1.13[FS] | 1.8.5.3.4.2[FS]; 1.8.8.1.5[FS] |
| 1.8.2 | Structural Design and Validation | Complete | 1486d | 03Oct05 31Aug11 | 01May07 29May09 | None | | None | | | |
| 1.8.2.3 | Small Structure Prototypes | Complete | 562d | 03Oct05 28Dec07 | 01May07 28Dec07 | None | | None | | | |
| 1.8.2.3.2 | Small Prototypes with Nova 16-cell Extrusions | Complete | 352d | 03Aug06 28Dec07 | 01May07 28Dec07 | None | | None | | | |
| 1.8.2.3.2.9 | Test large prototype structures - 2 | Complete | 100d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.2.3.2.8[FS] | 1.8.5.4.4[FS]; 1.8.5.5.3[FS] |
| 1.8.2.6 | Perform FEA of FD structure and equipment | Complete | 159d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.2.5[FS] | 1.8.8.2.11[FS]; 1.8.2.7[FF]; 1.8.2.12[FS] |
| 1.8.2.7 | Design review of FD structure | Complete | 5d | 07Jul08 31Aug11 | 23Feb09 27Feb09 | None | | None | | 1.8.2.6[FF]; 1.8.2.12[FS] | 1.8.8.2.11[FS]; 2.9.4.8.6[FS-68d] |
| 1.8.2.12 | Perform FEA of FD structure and equipment - Part 2 | Complete | 186d | 01Dec08 31Aug11 | 02Sep08 29May09 | None | | None | | 1.8.2.6[FS] | 2.9.4.8.6[FS-64d]; 1.8.2.7[FS]; 1.8.8.2.11[FS] |
| 1.8.3 | Liquid Scintillator Filling & Handling R&D | Complete | 562d | 03Oct05 28Dec07 | 01May07 28Dec07 | None | | None | | | |
| 1.8.3.3 | Far Detector Filling Machine | Complete | 497d | 03Oct05 24Sep07 | 01Jun07 24Sep07 | None | | None | | | |
| 1.8.3.3.5 | Develop operating procedures | Complete | 50d | 01Jun07 10Aug07 | 01Jun07 10Aug07 | None | | None | | 1.8.3.3.2[FS]; 1.8.3.3.4[FS] | 1.8.3.3.6[FS] |
| 1.8.3.3.6 | Document final FD filling machine design | Complete | 30d | 13Aug07 24Sep07 | 13Aug07 24Sep07 | None | | None | | 1.8.3.3.5[FS] | 1.8.3.3.7[FS] |
| 1.8.3.3.7 | FD filling machine design completed | Complete | 0 | 24Sep07 24Sep07 | 24Sep07 24Sep07 | None | | None | | 1.8.3.3.6[FS] | 2.9.3.3.1[FS] |
| 1.8.3.7 | Build and operate vertical module splash-fill prototype - 2 | Complete | 80d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.3.6[FS] | 1.8.5.3.5[FS] |
| 1.8.4 | Near Detector Assembly R&D | Complete | 501d | 03Oct05 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.8.4.2 | Assembly Fixtures and Tooling Development | Complete | 501d | 03Oct05 28Sep07 | 01Aug07 28Sep07 | None | | None | | | |
| 1.8.4.2.6 | Design tooling and assembly procedures for muon catcher block | Complete | 42d | 01Aug07 28Sep07 | 01Aug07 28Sep07 | None | | None | | 1.8.4.2.4[FS+85d] | 1.8.4.2.7[SS] |
| 1.8.4.2.7 | Document assembly fixtures and tooling designs | Complete | 42d | 01Aug07 28Sep07 | 01Aug07 28Sep07 | None | | None | | 1.8.4.2.6[SS]; 1.8.4.2.4[FS]; 1.8.4.2.3[FS]; 1.8.4.2.5[FS]; 1.8.4.2.2[FS] | 1.8.4.5[FS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.4.3 | Near Detector Installation Procedures | Complete | 180d | 24Aug06 14May07 | 01May07 14May07 | None | | None | | | |
| 1.8.4.3.6 | Document ND installation procedures | Complete | 10d | 01May07 14May07 | 01May07 14May07 | None | | None | | 1.8.4.3.1[FS]; 1.8.4.3.4[FS]; 1.8.4.3.5[FS]; 1.8.4.3.3[FS]; 1.8.4.3.2[FS] | 1.8.4.5[FS] |
| 1.8.4.5 | 30% design of near detector completed | Complete | 0 | 28Sep07 28Sep07 | 28Sep07 28Sep07 | None | | None | | 1.8.4.1.9[FS]; 1.8.4.2.7[FS]; 1.8.4.3.6[FS] | 2.8.1.1.5[FS]; 2.8.1.1.7[FS]; 1.8.5.5.3[FS] |
| 1.8.5 | Integration Prototype Near Detector (IPND) | Complete | 1300d | 28Feb06 29Apr11 | 01May07 02Dec10 | None | | None | | | |
| 1.8.5.2 | IPND Systems Design | Complete | 1030d | 24Aug06 30Sep10 | 01May07 21Apr09 | None | | None | | | |
| 1.8.5.2.9 | Final design of IPND systems | Complete | 64d | 01May07 31Jul07 | 01May07 31Jul07 | None | | None | | 1.8.5.2.8[FS]; 1.8.5.2.7[FS] | 1.8.5.3.4.1[FS]; 1.8.5.2.12[FS]; 1.8.5.3.4.3[FS]; 1.8.5.2.11[FS]; 1.8.5.3.1[FS]; 1.8.5.3.3[FS]; 1.8.5.2.10.1[FS]; 1.8.5.3.4.2[FS]; 1.8.5.3.5[FS]; 1.8.5.3.2[FS]; 1.8.5.4.1[FS] |
| 1.8.5.2.10 | ND Surface Building Infrastructure Design | Complete | 502d | 01Oct08 30Sep10 | 02Feb09 17Apr09 | None | | None | | | 1.8.5.2.11[FS] |
| 1.8.5.2.10.1 | Design electrical system | Complete | 40d | 01Feb10 24May10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.9[FS]; 2.10.9.7[FS] | 1.8.5.2.10.8[FS]; 1.8.5.2.10.2[SS]; 1.8.5.2.10.6[SS]; 1.8.5.2.10.4[SS]; 1.8.5.2.10.7[SS]; 1.8.5.2.10.5[SS]; 1.8.5.2.10.3[SS] |
| 1.8.5.2.10.2 | Design APD cooling system | Complete | 40d | 03May10 31Aug10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS] |
| 1.8.5.2.10.3 | Design detector enclosure | Complete | 40d | 01Oct08 26Feb10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS] |
| 1.8.5.2.10.4 | Design detector room base (floor load) | Complete | 40d | 01Feb10 26Feb10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS] |
| 1.8.5.2.10.5 | Design scintillator containment | Complete | 40d | 01Feb10 24May10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS] |
| 1.8.5.2.10.6 | Design fire protection system | Complete | 40d | 01Feb10 26Feb10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS] |
| 1.8.5.2.10.7 | Design IPND scintillator supply and filling equipment | Complete | 40d | 01Mar10 31Aug10 | 02Feb09 27Mar09 | None | | None | | 1.8.5.2.10.1[SS] | 1.8.5.2.10.8[FS]; 1.8.5.2.11[FS]; 1.8.5.3.5[FS] |
| 1.8.5.2.10.8 | Document MSB infrastructure design | Complete | 15d | 01Mar10 30Sep10 | 30Mar09 17Apr09 | None | | None | | 1.8.5.2.10.1[FS]; 1.8.5.2.10.3[FS]; 1.8.5.2.10.5[FS]; 1.8.5.2.10.6[FS]; 1.8.5.2.10.7[FS]; 1.8.5.2.10.4[FS]; 1.8.5.2.10.2[FS] | 1.8.5.2.11[FS] |
| 1.8.5.2.11 | Design review: IPND systems | Complete | 2d | 01Sep10 30Sep10 | 20Apr09 21Apr09 | None | | None | | 1.8.5.2.9[FS]; 1.8.5.2.4[FS]; 1.8.5.2.10.7[FS]; 1.8.5.2.1[FS]; 1.8.5.2.10[FS]; 1.8.5.2.7[FS]; 1.8.5.2.5[FS]; 1.8.5.2.3[FS]; 1.8.5.2.10.8[FS]; 1.8.5.2.6[FS] | 1.8.5.2.12[FS] |
| 1.8.5.2.12 | IPND systems designs completed | Complete | 0 | 30Sep10 30Sep10 | 21Apr09 21Apr09 | None | | None | | 1.8.5.2.9[FS]; 1.8.5.2.11[FS] | |
| 1.8.5.3 | IPND Equipment | Complete | 725d | 09Nov07 30Sep10 | 09Nov07 10Jun09 | None | | None | | | |
| 1.8.5.3.1 | Fabricate block support frames | Complete | 18d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.8.5.2.3[FS]; 1.8.5.2.9[FS] | 1.8.5.3.7[FS] |
| 1.8.5.3.2 | Fabricate lifting fixtures | Complete | 18d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.8.5.2.3[FS]; 1.8.5.2.9[FS] | 1.8.5.3.8[FS] |
| 1.8.5.3.3 | Fabricate detector bookends | Complete | 18d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.8.5.2.9[FS]; 1.8.5.2.4[FS] | 1.8.5.3.9[FS] |
| 1.8.5.3.4 | IPND Block Assembly Tooling | Complete | 449d | 09Nov07 25Aug09 | 09Nov07 09Apr09 | None | | None | | | 1.8.5.4.3[FS] |
| 1.8.5.3.4.1 | Fabricate block assembly platform | Complete | 30d | 03Aug09 25Aug09 | 02Feb09 13Mar09 | None | | None | | 1.8.5.2.9[FS]; 1.8.5.2.5[FS+20d]; 2.10.9.7[FS] | 1.8.5.4.3[SS]; 1.8.5.4.4[FS] |
| 1.8.5.3.4.2 | Procure glue machine | Complete | 7d | 09Nov07 28Dec07 | 09Nov07 28Dec07 | None | | None | | 1.8.1.14[FS]; 1.8.5.2.9[FS]; 1.8.5.2.7[FS] | 1.8.5.3.4.3[FS]; 1.8.5.3.4.4[FS] |
| 1.8.5.3.4.3 | Assemble glue machine | Complete | 15d | 01May09 18May09 | 20Mar09 09Apr09 | None | | None | | 1.8.5.2.9[FS]; 1.8.5.3.4.2[FS]; 1.8.5.3.4.4[FS] | 1.8.5.4.3[SS]; 1.8.5.4.4[FS] |
| 1.8.5.3.4.4 | Procure glue machine - Part 2 | Complete | 34d | 01May09 18May09 | 02Feb09 19Mar09 | None | | None | | 2.10.9.7[FS]; 1.8.5.3.4.2[FS] | 1.8.5.3.4.3[FS] |
| 1.8.5.3.5 | Fabricate IPND scintillator supply and filling equipment (MandS) | Complete | 30d | 01Mar10 30Sep10 | 06Jan09 17Feb09 | None | | None | | 1.8.3.7[FS]; 1.8.5.2.9[FS]; 1.8.3.5[FS]; 1.8.5.2.10.7[FS] | 1.8.5.3.6[SS]; 1.8.5.7.6[FS] |
| 1.8.5.3.6 | Fabricate IPND scintillator supply and filling equipment (labor) | Complete | 30d | 01Mar10 30Sep10 | 06Jan09 17Feb09 | None | | None | | 1.8.5.3.5[SS] | 1.8.5.7.6[FS] |
| 1.8.5.3.7 | Fabricate block support frames - Part 2 | Complete | 42d | 03Aug09 25Aug09 | 02Feb09 31Mar09 | None | | None | | 2.10.9.7[FS]; 1.8.5.3.1[FS] | 2.8.2.3.2.1.1[FS]; 1.8.5.4.3[FS] |
| 1.8.5.3.8 | Fabricate lifting fixtures - Part 2 | Complete | 92d | 04Jan10 29Jan10 | 02Feb09 10Jun09 | None | | None | | 2.10.9.7[FS]; 1.8.5.3.2[FS] | 1.8.5.4.4[FS]; 1.8.5.5.3[SS+20d] |
| 1.8.5.3.9 | Fabricate detector bookends - Part 2 | Complete | 62d | 03Aug09 25Aug09 | 02Feb09 28Apr09 | None | | None | | 2.10.9.7[FS]; 1.8.5.3.3[FS] | 1.8.5.7.1[FS] |
| 1.8.5.4 | IPND Block Assembly Facility Setup | Complete | 633d | 01Aug07 10Feb10 | 01Aug07 11Jun09 | None | | None | | | |
| 1.8.5.4.1 | Set up building infrastructure | Complete | 30d | 01Aug07 28Sep07 | 01Aug07 12Sep07 | None | | None | | 1.8.5.2.9[FS] | 1.8.5.4.3[FS]; 1.8.5.4.2[SS] |
| 1.8.5.4.2 | Install adhesive ventilation system | Complete | 30d | 01Aug07 28Sep07 | 01Aug07 12Sep07 | None | | None | | 1.8.5.4.1[SS] | 1.8.5.5.1[SS] |
| 1.8.5.4.3 | Install IPND assembly equipment | Complete | 20d | 01Oct09 10Feb10 | 10Apr09 07May09 | None | | None | | 1.8.5.3.4[FS]; 1.8.5.4.1[FS]; 1.8.5.3.4.3[SS]; 1.8.5.3.4.1[SS]; 1.8.5.3.7[FS] | 1.8.5.4.4[FS] |
| 1.8.5.4.4 | Operations review: IPND assembly facility | Complete | 1d | 10Feb10 10Feb10 | 11Jun09 11Jun09 | None | | None | | 1.8.2.3.2.9[FS]; 1.8.5.4.3[FS]; 1.8.5.3.4.3[FS]; 1.8.5.3.4.1[FS]; 1.8.5.3.8[FS] | 1.8.5.4.5[FS] |
| 1.8.5.4.5 | IPND block assembly facility completed | Complete | 0 | 10Feb10 10Feb10 | 11Jun09 11Jun09 | None | | None | | 1.8.5.4.4[FS] | |
| 1.8.5.5 | IPND Block Fabrication | Complete | 313d | 29Oct09 01Feb11 | 02Feb09 25Oct10 | None | | None | | | |
| 1.8.5.5.1 | Procure adhesive | Complete | 45d | 29Oct09 10Dec09 | 02Feb09 03Apr09 | None | | None | | 1.8.5.4.2[SS]; 2.10.9.7[FS] | 1.8.5.5.3[FS] |
| 1.8.5.5.3 | Fabricate IPND prototype block | Complete | 20d | 13Jan10 10Mar10 | 12Jun09 24Jul09 | None | | None | | 1.8.5.5.1[FS]; 1.8.4.5[FS]; 1.8.2.3.2.9[FS]; 1.8.5.3.8[SS+20d] | 1.8.5.5.4[FS]; 1.8.5.5.8[SS]; 1.8.5.5.5[FS] |
| 1.8.5.5.4 | Fabricate IPND block 1 | Complete | 13d | 05Apr10 21Apr10 | 16Mar10 12Apr10 | None | | None | | 1.8.5.5.3[FS]; 1.8.5.5.5[SS]; 1.5.7.3.11[FS] | 1.8.5.5.9[FS]; 1.8.5.5.6[FS] |
| 1.8.5.5.5 | Measure and evaluate IPND prototype block | Complete | 20d | 22Apr10 28May10 | 02Mar10 29Mar10 | None | | None | | 1.8.5.5.3[FS] | 1.8.5.7.2[FS]; 1.8.5.5.4[SS] |
| 1.8.5.5.6 | Fabricate remaining 3 IPND blocks | Complete | 30d | 28Apr10 09Jul10 | 13Apr10 24May10 | None | | None | | 1.5.7.3.6[FF]; 1.5.7.3.9[FF]; 1.5.7.3.8[FS]; 1.8.5.5.4[FS] | 1.8.5.5.10[SS+10d]; 1.8.5.5.16[FF]; 1.8.5.5.15[FF+5d]; 1.8.5.5.7[FS]; 1.8.5.5.12[FS]; 1.8.5.5.11[SS+20d] |
| 1.8.5.5.7 | IPND blocks (4 of 6) completed | Complete | 0 | 09Jul10 09Jul10 | 12Jul10 12Jul10 | None | | None | | 1.8.5.5.6[FS]; 1.8.5.5.12[FS]; 1.8.5.5.8[FS] | 1.8.5.7.13.4[FS]; 2.8.2.3.2.2.3[FS]; 1.8.5.5.13[FS]; 1.8.5.7.2[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.5.5.8 | IPND block assembly started | Complete | 0 | 05Apr10 05Apr10 | 02Feb10 02Feb10 | None | | None | | 1.8.5.5.3[SS] | 1.8.5.5.7[FS]; 1.8.5.5.9[FS] |
| 1.8.5.5.9 | IPND block 1 assembly completed | Complete | 0 | 21Apr10 21Apr10 | 12Apr10 12Apr10 | None | | None | | 1.8.5.5.4[FS]; 1.8.5.5.8[FS] | 1.8.5.7.13.1[FS]; 1.8.5.7.2[FS]; 1.8.5.5.10[FS+20d] |
| 1.8.5.5.10 | IPND block 2 assembly completed | Complete | 0 | 26May10 26May10 | 26Apr10 26Apr10 | None | | None | | 1.8.5.5.6[SS+10d]; 1.8.5.5.9[FS+20d] | 1.8.5.7.13.2[FS]; 1.8.5.5.11[FS+12d] |
| 1.8.5.5.11 | IPND block 3 assembly completed | Complete | 0 | 17Jun10 17Jun10 | 10May10 10May10 | None | | None | | 1.8.5.5.6[SS+20d]; 1.8.5.5.10[FS+12d] | 1.8.5.7.13.3[FS]; 1.8.5.5.12[FS+10d] |
| 1.8.5.5.12 | IPND block 4 assembly completed | Complete | 0 | 09Jul10 09Jul10 | 24May10 24May10 | None | | None | | 1.8.5.5.16[FS]; 1.8.5.5.6[FS]; 1.8.5.5.11[FS+10d] | 2.8.2.3.2.2.3[FS]; 1.8.5.5.7[FS]; 1.8.5.7.13.4[FS]; 1.8.5.5.13[FS] |
| 1.8.5.5.13 | IP/ND block 5 assembly completed | Complete | 0 | 12Aug10 12Aug10 | 08Jun10 08Jun10 | None | | None | | 1.8.5.5.7[FS]; 1.8.5.5.12[FS] | 1.8.5.5.14[FS]; 1.8.5.7.13.5[FS] |
| 1.8.5.5.14 | IP/ND block 6 assembly completed | Complete | 0 | 29Nov10 29Nov10 | 22Jun10 22Jun10 | None | | None | | 1.8.5.5.13[FS]; 2.8.2.3.2.2.3[FS] | 1.8.5.7.13.6[FS] |
| 1.8.5.5.15 | Paint NDOS blocks 1-4 | Complete | 40d | 07May10 30Jul10 | 07May10 02Jul10 | None | | None | | 1.8.5.5.6[FF+5d] | 2.8.2.3.2.2.10[FS] |
| 1.8.5.5.16 | Additional labor to fabricate NDOS blocks 2-4 | Complete | 30d | 14May10 30Jul10 | 14May10 25Jun10 | None | | None | | 1.8.5.5.6[FF] | 1.8.5.5.12[FS]; 2.8.2.3.2.2.3[FS] |
| 1.8.5.5.17 | Dispose of unused adhesives | Complete | 5d | 02Aug10 02Aug10 | 02Aug10 06Aug10 | None | | None | | | |
| 1.8.5.5.18 | Rigging-Offloading 8 loads of modules from UMN | Complete | 40d | 02Aug10 15Nov10 | 02Aug10 27Sep10 | None | | None | | | |
| 1.8.5.5.19 | Rigging-Sending 7 loads of material back to UMN | Complete | 40d | 02Aug10 17Dec10 | 02Aug10 27Sep10 | None | | None | | | |
| 1.8.5.5.20 | Rigging-Sending 7 NDOS blocks to FNAL | Complete | 40d | 02Aug10 17Dec10 | 02Aug10 27Sep10 | None | | None | | | |
| 1.8.5.5.21 | Design and make pressure test manifold-clamps | Complete | 8d | 02Aug10 02Aug10 | 02Aug10 11Aug10 | None | | None | | | 1.8.5.5.22[FS] |
| 1.8.5.5.22 | Perform glue thickness compression tests | Complete | 20d | 02Aug10 12Aug10 | 12Aug10 09Sep10 | None | | None | | 1.8.5.5.21[FS] | |
| 1.8.5.5.23 | Design custom cups for ND vacuum lifter | Complete | 8d | 02Aug10 02Aug10 | 02Aug10 11Aug10 | None | | None | | | 1.8.5.5.24[FS] |
| 1.8.5.5.24 | Fabricate custom cups for ND vacuum lifter | Complete | 5d | 02Aug10 12Aug10 | 12Aug10 18Aug10 | None | | None | | 1.8.5.5.23[FS] | 1.8.5.5.25[FS] |
| 1.8.5.5.25 | Fabricate custom pads for ND lifter (8 + 4 proto) | Complete | 5d | 02Aug10 19Aug10 | 19Aug10 25Aug10 | None | | None | | 1.8.5.5.24[FS] | 1.8.5.5.26[FS] |
| 1.8.5.5.26 | Design and build NDOS module compression prototype | Complete | 2d | 02Aug10 26Aug10 | 26Aug10 27Aug10 | None | | None | | 1.8.5.5.25[FS] | 1.8.5.5.27[FS] |
| 1.8.5.5.27 | Design Near Detector module compression fixture | Complete | 10d | 02Aug10 30Aug10 | 30Aug10 13Sep10 | None | | None | | 1.8.5.5.26[FS] | 1.8.5.5.28[FS] |
| 1.8.5.5.28 | Fabricate Near Detector module compression fixture | Complete | 2d | 01Sep10 30Sep10 | 14Sep10 15Sep10 | None | | None | | 1.8.5.5.27[FS] | |
| 1.8.5.5.29 | Near Detector module-pallet interface design | Complete | 20d | 02Aug10 02Aug10 | 02Aug10 27Aug10 | None | | None | | | 1.8.5.5.30[FS] |
| 1.8.5.5.30 | Near Detector module-pallet interface material | Complete | 2d | 02Aug10 29Oct10 | 30Aug10 31Aug10 | None | | None | | 1.8.5.5.29[FS] | 1.8.5.5.31[FS] |
| 1.8.5.5.31 | Near Detector alignment design and prototyping | Complete | 20d | 01Sep10 29Oct10 | 01Sep10 29Sep10 | None | | None | | 1.8.5.5.30[FS] | 1.8.5.5.32[FS] |
| 1.8.5.5.32 | Near Detector alignment design and tooling | Complete | 10d | 01Sep10 29Oct10 | 30Sep10 13Oct10 | None | | None | | 1.8.5.5.31[FS] | |
| 1.8.5.5.33 | Near Detector prototype pressure test system | Complete | 60d | 02Aug10 01Feb11 | 02Aug10 25Oct10 | None | | None | | | 2.9.4.3.2[FS] |
| 1.8.5.6 | MINOS Service Building Contracts (OBSOLETE) | Complete | 7d | 01Sep09 10Sep09 | 22Apr09 10Sep09 | None | | None | | | |
| 1.8.5.6.1 | Infrastructure Contract (OBSOLETE) | Complete | 4d | 01Sep09 04Sep09 | 22Apr09 04Sep09 | None | | None | | | |
| 1.8.5.6.1.1 | Prepare bid documents (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 22Apr09 05May09 | None | | None | | | 1.8.5.6.2.1[FF]; 1.8.5.6.1.2[FS] |
| 1.8.5.6.1.2 | Solicit bids (OBSOLETE) | Complete | 1d | 02Sep09 02Sep09 | 06May09 03Jun09 | None | | None | | 1.8.5.6.1.1[FS] | 1.8.5.6.1.3[FS] |
| 1.8.5.6.1.3 | Select contractor (OBSOLETE) | Complete | 1d | 03Sep09 03Sep09 | 04Jun09 17Jun09 | None | | None | | 1.8.5.6.1.2[FS] | 1.8.5.6.1.4[FS] |
| 1.8.5.6.1.4 | Notice to proceed on Phase 1 of IPND infrastructure in MSB (OBSOLETE) | Complete | 0 | 04Sep09 04Sep09 | 18Jun09 18Jun09 | None | | None | | 1.8.5.6.1.3[FS] | 1.8.5.6.1.5[FS]; 1.8.5.6.1.8[FS] |
| 1.8.5.6.1.5 | Architectural - Phase 1 (OBSOLETE) | Complete | 1d | 04Sep09 04Sep09 | 18Jun09 01Jul09 | None | | None | | 1.8.5.6.1.4[FS] | 1.8.5.6.2.4[FS] |
| 1.8.5.6.1.6 | Notice to proceed on Phase 2 of IPND infrastructure in MSB (OBSOLETE) | Complete | 0 | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | | 1.8.5.6.1.11[FS]; 1.8.5.6.1.7[FS] |
| 1.8.5.6.1.7 | Architectural - Phase 2 (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | 1.8.5.6.1.6[FS] | 1.8.5.6.1.8[FF]; 1.8.5.6.2.6[FS]; 1.8.5.6.1.10[FS] |
| 1.8.5.6.1.8 | Electrical work (OBSOLETE) | Complete | 1d | 04Sep09 04Sep09 | 04Sep09 04Sep09 | None | | None | | 1.8.5.6.1.7[FF]; 1.8.5.6.1.4[FS] | 1.8.5.6.1.9[FF] |
| 1.8.5.6.1.9 | Mechanical (ventilation) work (OBSOLETE) | Complete | 1d | 04Sep09 04Sep09 | 04Sep09 04Sep09 | None | | None | | 1.8.5.6.1.8[FF] | 1.8.5.6.1.11[FS] |
| 1.8.5.6.1.10 | Fire suppresion system work (OBSOLETE) | Complete | 1d | 02Sep09 02Sep09 | 02Sep09 02Sep09 | None | | None | | 1.8.5.6.1.7[FS] | 1.8.5.6.1.11[FS] |
| 1.8.5.6.1.11 | Infrastructure contract work completed (OBSOLETE) | Complete | 0 | 04Sep09 04Sep09 | 04Sep09 04Sep09 | None | | None | | 1.8.5.6.1.6[FS]; 1.8.5.6.1.9[FS]; 1.8.5.6.1.10[FS] | 1.8.5.6.3.4[FS] |
| 1.8.5.6.2 | Containment Contract (OBSOLETE) | Complete | 6d | 01Sep09 09Sep09 | 29Apr09 09Sep09 | None | | None | | | |
| 1.8.5.6.2.1 | Prepare bid documents (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 29Apr09 05May09 | None | | None | | 1.8.5.6.1.1[FF] | 1.8.5.6.2.2[FS] |
| 1.8.5.6.2.2 | Solicit bids (OBSOLETE) | Complete | 1d | 02Sep09 02Sep09 | 06May09 19May09 | None | | None | | 1.8.5.6.2.1[FS] | 1.8.5.6.2.3[FS] |
| 1.8.5.6.2.3 | Select contractor (OBSOLETE) | Complete | 1d | 03Sep09 03Sep09 | 20May09 03Jun09 | None | | None | | 1.8.5.6.2.2[FS] | 1.8.5.6.2.4[FS] |
| 1.8.5.6.2.4 | Notice to proceed - Phase 1 of IPND containment (OBSOLETE) | Complete | 0 | 08Sep09 08Sep09 | 08Sep09 08Sep09 | None | | None | | 1.8.5.6.2.3[FS]; 1.8.5.6.1.5[FS] | 1.8.5.6.2.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.5.6.2.5 | Containment - Phase 1 (OBSOLETE) | Complete | 1d | 08Sep09 08Sep09 | 08Sep09 08Sep09 | None | | None | | 1.8.5.6.2.4[FS] | 1.8.5.6.2.6[FS]; 1.8.5.6.3.1[FS] |
| 1.8.5.6.2.6 | Notice to proceed - Phase 2 of IPND containment (OBSOLETE) | Complete | 0 | 09Sep09 09Sep09 | 09Sep09 09Sep09 | None | | None | | 1.8.5.6.2.5[FS]; 1.8.5.6.1.7[FS] | 1.8.5.6.2.7[FS] |
| 1.8.5.6.2.7 | Containment - Phase 2 (OBSOLETE) | Complete | 1d | 09Sep09 09Sep09 | 09Sep09 09Sep09 | None | | None | | 1.8.5.6.2.6[FS] | 1.8.5.6.3.4[FS] |
| 1.8.5.6.3 | Experiment Interaction With Contractors (OBSOLETE) | Complete | 2d | 09Sep09 10Sep09 | 10Jul09 10Sep09 | None | | None | | | |
| 1.8.5.6.3.1 | Walkthru of partially completed enclosure (OBSOLETE) | Complete | 1d | 09Sep09 09Sep09 | 10Jul09 10Jul09 | None | | None | | 1.8.5.6.2.5[FS] | 1.8.5.6.3.2[FS]; 1.8.5.7.1[FS] |
| 1.8.5.6.3.2 | Train experiment personnel in contractor's procedures (OBSOLETE) | Complete | 1d | 10Sep09 10Sep09 | 13Jul09 13Jul09 | None | | None | | 1.8.5.6.3.1[FS] | 1.8.5.7.1[FS] |
| 1.8.5.6.3.4 | Walkthru of completed enclosure (OBSOLETE) | Complete | 1d | 10Sep09 10Sep09 | 10Sep09 10Sep09 | None | | None | | 1.8.5.6.2.7[FS]; 1.8.5.6.1.11[FS] | 1.8.5.6.3.5[FS] |
| 1.8.5.6.3.5 | Beneficial occupancy of IPND enclosure (OBSOLETE) | Complete | 0 | 10Sep09 10Sep09 | 10Sep09 10Sep09 | None | | None | | 1.8.5.6.3.4[FS] | |
| 1.8.5.7 | Installation, Commissioning and Operation in ND Surface Building | Complete | 316d | 01Feb10 29Apr11 | 14Jul09 02Dec10 | None | | None | | | |
| 1.8.5.7.1 | Install north bookend (OBSOLETE) | Complete | 1d | 03Jan11 03Jan11 | 14Jul09 14Jul09 | None | | None | | 1.8.5.6.3.2[FS]; 1.8.5.6.3.1[FS]; 1.8.5.3.9[FS]; 1.1.5.3.1.10[FS] | 1.8.5.7.2[FS]; 1.6.3.5.3.6[FS-20d]; 1.8.5.7.13.1[FS] |
| 1.8.5.7.2 | Install four blocks (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 24May10 24May10 | None | | None | | 1.8.5.7.1[FS]; 1.8.5.5.5[FS]; 1.8.5.5.7[FF]; 1.8.5.5.9[FS] | |
| 1.8.5.7.3 | Install south bookend (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 11Aug10 11Aug10 | None | | None | | 1.8.5.7.13.9[FS] | |
| 1.8.5.7.4 | Install top scaffolding (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 11Aug10 11Aug10 | None | | None | | 1.8.5.7.13.9[FS] | 1.8.5.7.5[FS] |
| 1.8.5.7.5 | Install cooling system (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 12Aug10 12Aug10 | None | | None | | 1.8.5.7.4[FS] | 1.8.5.7.9[SS] |
| 1.8.5.7.6 | Install liquid scintillator supply system (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 11Aug10 11Aug10 | None | | None | | 1.8.5.3.6[FS]; 1.8.5.3.5[FS]; 1.8.5.7.13.9[FS] | 1.8.5.7.7[FS] |
| 1.8.5.7.7 | Fill IPND modules with liquid scintillator (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 12Aug10 12Aug10 | None | | None | | 1.2.9.6.11[FS]; 1.8.5.7.6[FS]; 1.1.5.3.1.8[FS]; 1.1.5.3.1.10[FS]; 1.8.5.7.13.9[FS] | 1.8.5.7.9[FS] |
| 1.8.5.7.8 | IPND module filling completed | Complete | 0 | 29Oct10 29Oct10 | 29Jun10 29Jun10 | None | | None | | 1.8.5.7.14.7[FS] | 1.8.5.7.12[FS] |
| 1.8.5.7.9 | Install APD-electronics-readout hardware (OBSOLETE) | Complete | 1d | 01Feb10 01Feb10 | 02Dec10 02Dec10 | None | | None | | 1.6.1.2.10.2[FS]; 1.8.5.7.5[SS]; 1.6.1.2.12.4[FS]; 1.6.1.2.12.3[FS]; 1.6.1.7.8.1[FS]; 1.6.2.5.13[FS]; 1.7.2.2.4.4[FS]; 1.7.2.1.8[FS]; 1.6.1.6.1.9[FS]; 1.8.5.7.7[FS] | |
| 1.8.5.7.10 | Perform QA checks and commission Integration Prototype on the surface | Complete | 20d | 01Nov10 30Nov10 | 30Aug10 27Sep10 | None | | None | | 1.8.5.7.12[FS] | 1.8.5.7.11[FS] |
| 1.8.5.7.11 | Review IPND for operational readiness | Complete | 1d | 30Nov10 30Nov10 | 28Sep10 28Sep10 | None | | None | | 1.8.5.7.10[FS]; 1.7.1.11[FS] | 1.7.6[FS] |
| 1.8.5.7.12 | IPND ready to take data | Complete | 0 | 30Nov10 30Nov10 | 11Oct10 11Oct10 | None | | None | | 1.8.5.7.8[FS]; 1.8.5.7.14.12[FS]; 1.8.5.7.14.15[FS] | 1.8.5.7.15[FS]; 2.7.1.10.4.1.1.1[FS]; 2.8.1.2.2[FS]; 1.8.5.7.10[FS] |
| 1.8.5.7.13 | Block Installation | Complete | 171d | 01Jul10 08Mar11 | 14May10 10Aug10 | None | | None | | | |
| 1.8.5.7.13.1 | Install block A (1) | Complete | 5d | 01Jul10 01Jul10 | 14May10 20May10 | None | | None | | 1.8.5.5.9[FS]; 1.8.5.7.1[FS] | 1.8.5.7.13.2[FS]; 1.8.5.7.14.2[FS] |
| 1.8.5.7.13.2 | Install block B (2) | Complete | 2d | 01Jul10 01Jul10 | 21May10 24May10 | None | | None | | 1.8.5.5.10[FS]; 1.8.5.7.13.1[FS] | 1.8.5.7.13.3[FS] |
| 1.8.5.7.13.3 | Install block C (3) | Complete | 1d | 30Jul10 30Jul10 | 25May10 25May10 | None | | None | | 1.8.5.5.11[FS]; 1.8.5.7.13.2[FS] | 1.8.5.7.13.4[FS] |
| 1.8.5.7.13.4 | Install block D (4) | Complete | 1d | 30Jul10 30Jul10 | 26May10 26May10 | None | | None | | 1.8.5.5.7[FS]; 1.8.5.5.12[FS]; 1.8.5.7.13.3[FS] | 1.8.5.7.13.5[FS] |
| 1.8.5.7.13.5 | Install block E (5) | Complete | 1d | 27Aug10 27Aug10 | 09Jun10 09Jun10 | None | | None | | 1.8.5.7.13.4[FS]; 1.8.5.5.13[FS] | 1.8.5.7.14.2[FS]; 1.8.5.7.13.6[FS] |
| 1.8.5.7.13.6 | Install block F (6) | Complete | 1d | 17Dec10 17Dec10 | 23Jun10 23Jun10 | None | | None | | 2.8.2.3.2.2.10[FS]; 1.8.5.7.13.5[FS]; 1.8.5.5.14[FS] | 1.8.5.7.13.7[FS]; 1.8.5.7.14.9[FS]; 1.8.5.7.13.8[FS] |
| 1.8.5.7.13.7 | Blocks A-F (6-1) installed | Complete | 0 | 17Dec10 17Dec10 | 23Jun10 23Jun10 | None | | None | | 1.8.5.7.13.6[FS] | 1.8.5.7.13.8[FS] |
| 1.8.5.7.13.8 | Install muon catcher | Complete | 5d | 20Dec10 08Mar11 | 04Aug10 10Aug10 | None | | None | | 1.8.5.7.13.7[FS]; 1.8.5.7.13.6[FS]; 2.8.2.2.5[FS] | 1.8.5.7.13.9[FS] |
| 1.8.5.7.13.9 | Muon catcher installed | Complete | 0 | 08Mar11 08Mar11 | 10Aug10 10Aug10 | None | | None | | 1.8.5.7.13.8[FS] | 1.8.5.7.3[FS]; 1.8.5.7.4[FS]; 1.8.5.7.6[FS]; 1.8.5.7.7[FS]; 1.8.5.7.14.10[FS] |
| 1.8.5.7.14 | Block Filling and Outfitting | Complete | 209d | 01Jul10 29Apr11 | 13Apr10 16Aug10 | None | | None | | | |
| 1.8.5.7.14.1 | Install power supplies, chillers, and filling infrastructure | Complete | 5d | 01Jul10 29Apr11 | 13Apr10 19Apr10 | None | | None | | 1.1.5.3.1.10[FS] | 1.8.5.7.14.3[FS] |
| 1.8.5.7.14.2 | Fill Block A with scintillator | Complete | 5d | 22Oct10 29Oct10 | 15Jun10 21Jun10 | None | | None | | 1.8.5.7.13.5[FS]; 1.1.5.3.1.10[FS]; 1.1.5.3.2.6[FS]; 1.8.5.7.13.1[FS] | 2.2.5.2[SS]; 1.8.5.7.14.3[FS]; 1.8.5.7.14.5[FS]; 1.8.5.7.14.4[FS] |
| 1.8.5.7.14.3 | Outfit electronics for Block A | Complete | 2d | 01Jul10 29Oct10 | 22Jun10 23Jun10 | None | | None | | 1.6.2.5.14[FS]; 1.8.5.7.14.1[FS]; 1.8.5.7.14.2[FS] | 1.8.5.7.14.4[FS]; 1.7.7.4.3.2[SF]; 1.7.4.12.4.1[SS]; 1.8.5.7.14.11[FF] |
| 1.8.5.7.14.4 | Block A filled and outfitted | Complete | 0 | 29Oct10 29Oct10 | 23Jun10 23Jun10 | None | | None | | 1.8.5.7.14.3[FS]; 1.8.5.7.14.2[FS] | |
| 1.8.5.7.14.5 | Fill Block B with scintillator | Complete | 2d | 28Oct10 29Oct10 | 22Jun10 23Jun10 | None | | None | | 1.8.5.7.14.2[FS] | 1.8.5.7.14.6[FS]; 1.8.5.7.14.11[FS] |
| 1.8.5.7.14.6 | Fill Block C with scintillator | Complete | 2d | 28Oct10 29Oct10 | 24Jun10 25Jun10 | None | | None | | 1.8.5.7.14.5[FS] | 1.8.5.7.14.12[FS]; 1.8.5.7.14.7[FS] |
| 1.8.5.7.14.7 | Fill Block D with scintillator | Complete | 2d | 28Oct10 29Oct10 | 28Jun10 29Jun10 | None | | None | | 1.8.5.7.14.6[FS] | 1.8.5.7.8[FS]; 1.8.5.7.14.8[FS] |
| 1.8.5.7.14.8 | Fill Block E with scintillator | Complete | 2d | 01Nov10 31Mar11 | 30Jun10 01Jul10 | None | | None | | 1.8.5.7.14.7[FS] | 1.8.5.7.14.13[FS]; 1.8.5.7.14.9[FS] |
| 1.8.5.7.14.9 | Fill Block F with scintillator | Complete | 2d | 18Mar11 31Mar11 | 02Jul10 06Jul10 | None | | None | | 1.8.5.7.13.6[FS]; 1.8.5.7.14.8[FS] | 1.8.5.7.14.10[FS] |
| 1.8.5.7.14.10 | Fill muon catcher with scintillator | Complete | 1d | 18Mar11 31Mar11 | 11Aug10 11Aug10 | None | | None | | 1.8.5.7.14.9[FS]; 1.8.5.7.13.9[FS] | 1.8.5.7.14.17[FS]; 2.2.5.2[FF]; 2.2.5.1[FF]; 2.8.3.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.5.7.14.11 | Outfit electronics for Block B | Complete | 2d | 01Jul10 29Oct10 | 24Jun10 25Jun10 | None | | None | | 1.6.2.5.9[SS+10d]; 1.8.5.7.14.3[FF]; 1.8.5.7.14.5[FS] | 1.8.5.7.14.12[FS] |
| 1.8.5.7.14.12 | Outfit electronics for Block C-D | Complete | 5d | 22Oct10 29Oct10 | 28Jun10 02Jul10 | None | | None | | 1.8.5.7.14.11[FS]; 1.8.5.7.14.6[FS]; 1.6.2.5.9[SS+15d]; 1.6.2.5.9[FF] | 1.8.5.7.12[FS]; 1.8.5.7.14.13[FS] |
| 1.8.5.7.14.13 | Outfit electronics for Block E-F | Complete | 5d | 01Apr11 29Apr11 | 06Jul10 12Jul10 | None | | None | | 1.8.5.7.14.8[FS]; 1.8.5.7.14.12[FS] | 1.8.5.7.14.17[FS] |
| 1.8.5.7.14.14 | Install APDs for Blocks A-B | Complete | 1d | 29Oct10 29Oct10 | 02Jul10 02Jul10 | None | | None | | 1.6.1.6.1.21[FS] | 1.8.5.7.14.15[FS]; 2.6.1.2.4[FS] |
| 1.8.5.7.14.15 | Install APDs for Blocks C-D | Complete | 1d | 29Oct10 29Oct10 | 12Jul10 12Jul10 | None | | None | | 1.8.5.7.14.14[FS]; 1.6.1.6.1.22[FS] | 1.8.5.7.14.16[FS]; 1.8.5.7.12[FS] |
| 1.8.5.7.14.16 | Install APDs for Blocks E-F | Complete | 1d | 01Apr11 29Apr11 | 27Jul10 27Jul10 | None | | None | | 1.8.5.7.14.15[FS]; 1.6.1.6.1.24[FS] | 1.8.5.7.15[FS] |
| 1.8.5.7.14.17 | Outfit electronics for muon catcher | Complete | 2d | 01Apr11 29Apr11 | 12Aug10 13Aug10 | None | | None | | 1.8.5.7.14.13[FS]; 1.8.5.7.14.10[FS] | 1.8.5.7.14.18[FS] |
| 1.8.5.7.14.18 | Install APDs for muon catcher | Complete | 1d | 01Apr11 29Apr11 | 16Aug10 16Aug10 | None | | None | | 1.8.5.7.14.17[FS]; 1.6.1.6.1.24[FS] | 1.8.5.7.15[FS] |
| 1.8.5.7.15 | Near detector ready to take data on surface | Complete | 0 | 29Apr11 29Apr11 | 16Aug10 16Aug10 | None | | None | | 1.8.5.7.14.18[FS]; 1.8.5.7.14.16[FS]; 1.8.5.7.12[FS] | |
| 1.8.6 | Far Detector Assembly Engineering | Complete | 1486d | 03Oct05 31Aug11 | 01May07 29May09 | None | | None | | | |
| 1.8.6.1 | Far Detector Mechanical Systems | Complete | 1486d | 03Oct05 31Aug11 | 01May07 29May09 | None | | None | | | |
| 1.8.6.1.11 | Develop 3D integegration and assembly CAD model | Complete | 149d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.6.1.8[FS]; 1.8.6.1.4[FS]; 1.8.6.1.6[FS]; 1.8.6.1.2[FS] | 1.8.6.1.12[SS]; 1.8.6.1.13[SS]; 1.8.6.1.14[FS] |
| 1.8.6.1.12 | Produce 2D assembly and envelope drawings | Complete | 80d | 01May07 30Nov07 | 01May07 22Aug07 | None | | None | | 1.8.6.1.11[SS] | 2.9.1.1.2[FS]; 1.8.6.1.13[SS]; 2.9.1.3.2[FS]; 2.9.1.4.2[FS]; 2.9.2.2.21.2[FS] |
| 1.8.6.1.13 | Document and review integration and assembly model | Complete | 149d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.6.1.12[SS]; 1.8.6.1.11[SS] | 1.8.6.3[FS]; 1.8.6.1.15[FS] |
| 1.8.6.1.14 | Develop 3D integegration and assembly CAD model - Part 2 | Complete | 186d | 03Nov08 31Aug11 | 02Sep08 29May09 | None | | None | | 1.8.6.1.11[FS] | |
| 1.8.6.1.15 | Document and review integration and assembly model - Part 2 | Complete | 16d | 10Aug11 31Aug11 | 02Feb09 23Feb09 | None | | None | | 1.8.6.1.13[FS]; 2.10.9.7[FS] | 1.8.6.3[FS] |
| 1.8.6.2 | Far Detector Assembly Fixtures and Tooling | Complete | 1486d | 03Oct05 31Aug11 | 01May07 31Mar09 | None | | None | | | |
| 1.8.6.2.3 | Develop block pivoter design - 2 | Complete | 65d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.6.2.2[FS] | 1.8.6.2.4[FS]; 1.8.6.2.16[FS]; 1.8.6.2.19[FS]; 2.9.1.4.1[FS]; 1.8.6.2.17[FS] |
| 1.8.6.2.4 | Design review: block pivoter | Complete | 20d | 24Mar11 24Mar11 | 04Mar09 31Mar09 | None | | None | | 1.8.6.2.3[FS]; 1.8.6.2.17[FS]; 2.9.1.4.1[SS+65d] | 2.9.1.4.2[FF] |
| 1.8.6.2.5 | Develop block assembly platform design | Complete | 80d | 01May07 27Jul07 | 01May07 22Aug07 | None | | None | | 1.8.6.2.10[FF] | 2.9.1.4.1[FS] |
| 1.8.6.2.7 | Develop adhesive dispenser design - 2 | Complete | 145d | 01May07 26Nov07 | 01May07 26Nov07 | None | | None | | 1.8.6.2.6[FS] | 1.8.6.2.16[FS]; 2.9.1.2.1[FS]; 1.8.6.2.8[FS] |
| 1.8.6.2.8 | Design review: adhesive dispenser | Complete | 20d | 29Jan08 26Feb08 | 02Feb09 27Feb09 | None | | None | | 1.8.6.2.7[FS]; 2.10.9.7[FS] | 1.8.6.2.16[FS]; 1.8.8.1.17[FS] |
| 1.8.6.2.10 | Develop fixtures and procedures for block assembly - 2 | Complete | 48d | 01May07 28Dec07 | 01May07 28Dec07 | None | | None | | 1.8.6.2.9[FS] | 1.8.6.2.5[FF]; 1.8.6.2.16[FS]; 1.8.6.2.18[FS] |
| 1.8.6.2.12 | Develop tooling for block installation - 2 | Complete | 80d | 01May07 31Aug11 | 01May07 22Aug07 | None | | None | | 1.8.6.2.11[FS] | 1.8.6.2.16[FS] |
| 1.8.6.2.14 | Develop tooling for FD block alignment - 2 | Complete | 80d | 01May07 31Aug11 | 01May07 22Aug07 | None | | None | | 1.8.6.2.13[FS] | 1.8.6.2.16[FS] |
| 1.8.6.2.16 | Document FD tooling designs | Complete | 10d | 18Aug11 31Aug11 | 18Mar09 31Mar09 | None | | None | | 1.8.6.2.3[FS]; 1.8.6.2.7[FS]; 1.8.6.2.14[FS]; 1.8.6.2.12[FS]; 1.8.6.2.10[FS]; 1.8.6.2.8[FS]; 1.8.6.2.1[FS]; 1.8.6.2.17[FS]; 1.8.6.2.18[FS] | 1.8.6.3[FS] |
| 1.8.6.2.17 | Develop block pivoter design - 2 - Part 2 | Complete | 22d | 01Sep10 15May11 | 02Feb09 03Mar09 | None | | None | | 1.8.6.2.19[FS]; 2.10.9.7[FS]; 1.8.6.2.3[FS] | 1.8.6.2.4[FS]; 1.8.6.2.16[FS] |
| 1.8.6.2.18 | Develop fixtures and procedures for block assembly - 2 - Part 2 | Complete | 32d | 01Aug11 31Aug11 | 02Feb09 17Mar09 | None | | None | | 1.8.6.2.10[FS]; 2.10.9.7[FS] | 1.8.6.2.16[FS] |
| 1.8.6.2.19 | Conceptual design review of block pivoter | Complete | 20d | 01Apr08 28Apr08 | 01Apr08 28Apr08 | None | | None | | 1.8.6.2.3[FS] | 1.8.6.2.17[FS] |
| 1.8.6.3 | Design review: FD mechnical systems and tooling | Complete | 20d | 01Aug11 31Aug11 | 01Apr09 28Apr09 | None | | None | | 1.8.6.1.13[FS]; 1.8.6.2.16[FS]; 1.8.6.1.15[FS] | 2.9.1.5.1[FF]; 1.8.6.4[FS] |
| 1.8.6.4 | 30% design of far detector mechanical systems and tooling completed | Complete | 0 | 01Feb10 01Feb10 | 28Apr09 28Apr09 | None | | None | | 1.8.6.3[FS] | |
| 1.8.8 | Far Detector Prototypes | Complete | 1211d | 03Nov06 31Aug11 | 01Jun07 25May11 | None | | None | | | |
| 1.8.8.1 | Full-scale Block Assembly Prototype (FSAP) | Complete | 629d | 27Feb07 25Aug09 | 01Jun07 23Jul09 | None | | None | | | |
| 1.8.8.1.4 | Design assembly table, fixtures, and tooling for prototype - 2 | Complete | 20d | 01Jun07 31Jul07 | 01Jun07 28Jun07 | None | | None | | 1.8.8.1.3[FS] | 1.8.8.1.6[FS]; 1.8.8.1.7[FS] |
| 1.8.8.1.5 | Design glue machine for prototype | Complete | 45d | 05Jul07 25Oct07 | 05Jul07 06Sep07 | None | | None | | 1.8.1.14[FS]; 1.8.8.1.1[FS] | 1.8.8.1.6[FS]; 1.8.8.1.10[FS]; 1.8.8.1.8[FS]; 1.8.8.1.7[FS] |
| 1.8.8.1.6 | Design review: full-scale block assembly prototype | Complete | 10d | 04Dec07 17Dec07 | 04Dec07 17Dec07 | None | | None | | 1.8.8.1.5[FS]; 1.8.8.1.2[FS]; 1.8.8.1.4[FS]; 1.8.8.1.12[SS+20d] | 1.8.8.1.13[FS] |
| 1.8.8.1.7 | Prepare site infrastructure | Complete | 20d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.8.8.1.5[FS]; 1.8.8.1.2[FS]; 1.8.8.1.4[FS] | 1.8.8.1.12[FS]; 1.8.8.1.9[FS]; 1.8.8.1.11[FS]; 1.8.8.1.14[FS] |
| 1.8.8.1.8 | Fabricate fixtures, and tooling for prototype | Complete | 3d | 03Dec07 28Dec07 | 03Dec07 28Dec07 | None | | None | | 1.8.8.1.5[FS] | 1.8.8.1.9[FS]; 1.8.8.1.15[FS] |
| 1.8.8.1.9 | Prepare block assembly surface | Complete | 10d | 08Apr09 22Apr09 | 11Mar09 24Mar09 | None | | None | | 1.8.8.1.8[FS]; 1.8.8.1.7[FS]; 1.8.8.1.14[FS]; 1.8.8.1.15[FS] | 1.8.8.1.12[FS] |
| 1.8.8.1.10 | Fabricate glue machine for prototype | Complete | 5d | 09Nov07 28Dec07 | 09Nov07 28Dec07 | None | | None | | 1.8.8.1.5[FS] | 1.8.8.1.11[FS]; 1.8.8.1.16[FS] |
| 1.8.8.1.11 | Install adhesive dispensing system for prototype | Complete | 10d | 01May09 18May09 | 09Mar09 20Mar09 | None | | None | | 1.8.8.1.7[FS]; 1.8.8.1.10[FS]; 1.8.8.1.17[FS]; 1.8.8.1.16[FS]; 1.8.8.1.14[FS] | 1.8.8.1.12[FS] |
| 1.8.8.1.12 | Perform assembly prototype studies | Complete | 85d | 13Apr09 25Aug09 | 25Mar09 23Jul09 | None | | None | | 1.8.8.1.7[FS]; 1.8.8.1.11[FS]; 1.8.8.1.9[FS]; 1.8.8.1.14[FS] | 1.8.8.1.13[FS]; 1.8.8.1.6[SS+20d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.8.1.13 | Full-scale block assembly prototype testing completed | Complete | 0 | 25Aug09 25Aug09 | 23Jul09 23Jul09 | None | | None | | 1.8.8.1.12[FS]; 1.8.8.1.6[FS] | 2.9.1.3.1[FS]; 2.9.1.2.1[FS]; 1.8.8.2.10[FS]; 1.8.8.2.11[FS] |
| 1.8.8.1.14 | Prepare site infrastructure - Part 2 | Complete | 6d | 01Apr09 24Apr09 | 02Feb09 09Feb09 | None | | None | | 2.10.9.7[FS]; 1.8.8.1.7[FS] | 1.8.8.1.9[FS]; 1.8.8.1.12[FS]; 1.8.8.1.11[FS] |
| 1.8.8.1.15 | Fabricate fixtures, and tooling for prototype - Part 2 | Complete | 27d | 01Dec08 01Apr09 | 02Feb09 10Mar09 | None | | None | | 1.8.8.1.8[FS]; 2.10.9.7[FS] | 1.8.8.1.9[FS] |
| 1.8.8.1.16 | Fabricate glue machine for prototype - Part 2 | Complete | 25d | 02Jan08 01Apr09 | 02Feb09 06Mar09 | None | | None | | 2.10.9.7[FS]; 1.8.8.1.10[FS] | 1.8.8.1.11[FS] |
| 1.8.8.1.17 | Procure new sealant dispensing equipment | Complete | 60d | 17Nov08 01Apr09 | 17Nov08 17Feb09 | None | | None | | 1.8.6.2.8[FS] | 1.8.8.2.22[FS]; 1.8.8.1.11[FS] |
| 1.8.8.2 | Full-height Engineering Prototype (FHEP) | Complete | 1211d | 03Nov06 31Aug11 | 07Sep07 25May11 | None | | None | | | |
| 1.8.8.2.4 | Design FHEP block raiser, fixtures, and tooling | Complete | 38d | 07Sep07 28Dec07 | 07Sep07 28Dec07 | None | | None | | 1.8.8.2.2[FS] | 1.8.8.2.5[FS]; 1.8.8.2.21[FS] |
| 1.8.8.2.5 | Design review: full-height engineering prototype (Obsolete) | Complete | 10d | 01Aug11 01Aug11 | 22Apr09 05May09 | None | | None | | 1.8.8.2.2[FS]; 1.8.8.2.4[FS]; 1.8.8.2.21[FS] | 1.8.8.2.10[FS]; 1.8.8.2.7[FS]; 1.8.8.2.6[FS]; 1.8.8.2.9[FS]; 2.9.4.8.1[FS] |
| 1.8.8.2.6 | Select site for block installation at FNAL | Complete | 0 | 01Oct09 01Oct09 | 05May09 05May09 | None | | None | | 1.8.8.2.5[FS]; 1.8.8.2.2[FS] | 1.8.8.2.8[FS]; 1.8.8.2.7[FS] |
| 1.8.8.2.7 | Prepare FHEP site at FNAL | Complete | 40d | 14May10 31Jan11 | 06May09 01Jul09 | None | | None | | 1.8.8.2.5[FS]; 1.8.8.2.6[FS] | 1.8.8.2.12[FS]; 2.9.4.8.7[FS] |
| 1.8.8.2.8 | Procure and install FHEP structure monitoring system | Complete | 60d | 26May10 31Aug11 | 06May09 30Jul09 | None | | None | | 1.8.8.2.6[FS] | 2.9.2.3.3[FS]; 2.9.2.3.2[FS]; 2.9.2.3.4[FS]; 2.9.2.3.1[FS]; 1.8.8.2.12[FS]; 2.9.4.8.7[FS] |
| 1.8.8.2.9 | Fabricate FHEP strongback, fixtures, and tooling | Complete | 60d | 01Feb10 29Nov10 | 06May09 30Jul09 | None | | None | | 1.8.8.2.5[FS] | 1.8.8.2.11[FS] |
| 1.8.8.2.10 | Prepare FHEP block assembly site at ANL (Obsolete) | Complete | 1d | 18Jan11 18Jan11 | 24Jul09 13Aug09 | None | | None | | 1.8.8.2.5[FS]; 1.8.8.2.3[FS]; 1.8.8.1.13[FS]; 1.8.8.2.22[FS] | 1.8.8.2.11[FS] |
| 1.8.8.2.11 | Assemble FHEP block 1 at ANL (Obsolete) | Complete | 1d | 01Mar11 01Mar11 | 19May11 19May11 | None | | None | | 1.8.2.6[FS]; 1.8.8.2.29[FS]; 1.8.8.2.26[FS]; 1.8.8.2.9[FS]; 1.8.8.2.10[FS]; 1.8.8.1.13[FS]; 1.8.2.7[FS]; 1.8.2.12[FS] | 1.8.8.2.12[FS] |
| 1.8.8.2.12 | Install FHEP block 1 at FNAL (Obsolete) | Complete | 1d | 02Mar11 02Mar11 | 20May11 20May11 | None | | None | | 1.8.8.2.7[FS]; 1.5.4.4[FS]; 1.8.8.2.8[FS]; 1.8.8.2.11[FS] | 1.8.8.2.15[FS]; 1.8.8.2.13[SS] |
| 1.8.8.2.13 | Assemble FHEP block 2 at ANL (OBSOLETE) | Complete | 1d | 01Oct09 01Oct09 | 02Apr10 02Apr10 | None | | None | | 1.8.8.2.12[SS] | 1.8.8.2.14[SS] |
| 1.8.8.2.14 | Install FHEP block 2 at FNAL (OBSOLETE) | Complete | 1d | 01Oct09 01Oct09 | 02Apr10 02Apr10 | None | | None | | 1.8.8.2.13[SS] | |
| 1.8.8.2.15 | Full-height engineering prototype block installation completed (Obsolete) | Complete | 0 | 02Mar11 02Mar11 | 20May11 20May11 | None | | None | | 1.8.8.2.12[FS] | 1.8.8.2.16[FS] |
| 1.8.8.2.16 | Fill FHEP block with water (Obsolete) | Complete | 1d | 03Mar11 03Mar11 | 23May11 23May11 | None | | None | | 1.8.8.2.15[FS] | 1.8.8.2.18[FS]; 1.8.8.2.17[FS] |
| 1.8.8.2.17 | Full-height engineering prototype testing started (Obsolete) | Complete | 0 | 04Mar11 04Mar11 | 24May11 24May11 | None | | None | | 1.8.8.2.18[SS]; 1.8.8.2.16[FS] | 1.8.8.2.20[FS] |
| 1.8.8.2.18 | Measure FHEP mechanical characteristics (Obsolete) | Complete | 1d | 04Mar11 04Mar11 | 24May11 24May11 | None | | None | | 1.8.8.2.16[FS] | 1.8.8.2.17[SS]; 2.9.4.3.1[FS]; 1.8.8.2.19[FS] |
| 1.8.8.2.19 | Measure FHEP long-term deformations (Obsolete) | Complete | 1d | 07Mar11 07Mar11 | 25May11 25May11 | None | | None | | 1.8.8.2.18[FS] | 1.8.8.2.20[FS] |
| 1.8.8.2.20 | Full-height engineering prototype testing completed (Obsolete) | Complete | 0 | 07Mar11 07Mar11 | 25May11 25May11 | None | | None | | 1.8.8.2.17[FS]; 1.8.8.2.19[FS] | |
| 1.8.8.2.21 | Design FHEP block raiser, fixtures, and tooling - Part 2 | Complete | 57d | 01Dec08 29Oct10 | 02Feb09 21Apr09 | None | | None | | 2.10.9.7[FS]; 1.8.8.2.4[FS] | 1.8.8.2.5[FS] |
| 1.8.8.2.22 | Develop FHEP and far detector adhesive dispenser | Complete | 48d | 02Nov09 01Feb10 | 01May09 09Jul09 | None | | None | | 1.8.8.1.17[FS] | 1.8.8.2.10[FS] |
| 1.8.8.2.23 | Design FHEP/Far Detector compression fixturing | Complete | 15d | 01Sep10 29Oct10 | 01Oct10 21Oct10 | None | | None | | | 1.8.8.2.27[FS]; 1.8.8.2.24[FS]; 2.9.4.8.3[FS] |
| 1.8.8.2.24 | Fabricate FHEP compression plates | Complete | 20d | 01Nov10 30Nov10 | 22Oct10 18Nov10 | None | | None | | 1.8.8.2.23[FS] | 1.8.8.2.25[FS] |
| 1.8.8.2.25 | FHEP module-pallet interface studies | Complete | 20d | 20Sep10 10Jan11 | 19Nov10 20Dec10 | None | | None | | 1.8.8.2.24[FS] | 1.8.8.2.26[FS]; 2.9.4.8.2[FS] |
| 1.8.8.2.26 | FHEP module-pallet interface material (Obsolete) | Complete | 1d | 11Jan11 11Jan11 | 21Dec10 29Dec10 | None | | None | | 1.8.8.2.25[FS] | 1.8.8.2.11[FS] |
| 1.8.8.2.27 | Move rotation idler table for FHEP construction (Obsolete) | Complete | 1d | 03Jan11 03Jan11 | 22Oct10 28Oct10 | None | | None | | 1.8.8.2.23[FS] | 1.8.8.2.28[FS] |
| 1.8.8.2.28 | FHEP alignment design and tooling (Obsolete) | Complete | 1d | 04Jan11 04Jan11 | 29Oct10 29Nov10 | None | | None | | 1.8.8.2.27[FS] | 1.8.8.2.29[FS] |
| 1.8.8.2.29 | FHEP scaffolding (Obsolete) | Complete | 1d | 05Jan11 05Jan11 | 30Nov10 13Dec10 | None | | None | | 1.8.8.2.28[FS] | 1.8.8.2.11[FS] |
| 1.8.9 | Management - R&D Phase | Complete | 1486d | 03Oct05 31Aug11 | 01May07 29Sep08 | None | | None | | | |
| 1.8.9.2 | FY07 | Complete | 250d | 02Oct06 30Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.8.9.2.2 | 2HFY07 | Complete | 106d | 01May07 30Sep07 | 01May07 28Sep07 | Not Earlier Than | 01Apr07 | None | | | |
| 1.8.9.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.8.9.2.1.1[FS] | 1.8.9.3.1[FS] |
| 1.8.9.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.8.9.2.1.2[FS] | 1.8.9.3.2[FS] |
| 1.8.9.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.8.9.2.1.3[FS] | 1.8.9.3.3[FS] |
| 1.8.9.2.2.4 | Materials and supplies | Complete | 106d | 01May07 30Sep07 | 01May07 28Sep07 | None | | None | | 1.8.9.2.1.4[FS] | 1.8.9.3.4[FS] |
| 1.8.9.3 | FY08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | Not Earlier Than | 01Oct07 | None | | | |
| 1.8.9.3.1 | Labor | Complete | 251d | 01Oct07 30Sep08 | 01Oct07 29Sep08 | None | | None | | 1.8.9.2.2.1[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8.9.3.2 | Travel | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.8.9.2.2.2[FS] | |
| 1.8.9.3.3 | Equipment | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.8.9.2.2.3[FS] | |
| 1.8.9.3.4 | Materials and supplies | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | None | | None | | 1.8.9.2.2.4[FS] | |
| 1.8.9.5 | Post CD-1 Detector Assembly R&D Cost Account | Complete | 104d | 01May07 31Aug11 | 01May07 26Sep07 | None | | None | | | |
| 1.9 | Project Management - R&D | Complete | 753d | 03Oct05 30Sep08 | 12Apr07 01Oct08 | None | | None | | | |
| 1.9.2 | FY07 | Complete | 250d | 02Oct06 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.9.2.2 | Management - 2HFY07 | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | Not Earlier Than | 01May07 | None | | | |
| 1.9.2.2.1 | Labor | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.9.2.1.1[FS] | 1.9.3.1.1[FS] |
| 1.9.2.2.2 | Travel | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.9.2.1.2[FS] | 1.9.3.1.2[FS] |
| 1.9.2.2.3 | Equipment | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.9.2.1.3[FS] | 1.9.3.1.3[FS] |
| 1.9.2.2.4 | Materials and supplies | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | 1.9.2.1.4[FS] | 1.9.3.1.4[FS] |
| 1.9.2.3 | CDR Costs - Detector | Complete | 106d | 01May07 28Sep07 | 01May07 28Sep07 | None | | None | | | |
| 1.9.3 | FY08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | Not Earlier Than | 01Oct07 | None | | | |
| 1.9.3.1 | Management FY08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | |
| 1.9.3.1.1 | Labor | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | 1.9.2.2.1[FS] | |
| 1.9.3.1.2 | Travel | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | 1.9.2.2.2[FS] | |
| 1.9.3.1.3 | Equipment | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | 1.9.2.2.3[FS] | |
| 1.9.3.1.4 | Materials and supplies | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | 1.9.2.2.4[FS] | |
| 1.9.4 | Critical Decision Milestones | Complete | 703d | 29Nov05 15Sep08 | 11May07 01Oct08 | None | | None | | | |
| 1.9.4.2 | CD-1 | Complete | 0 | 11May07 11May07 | 11May07 11May07 | None | | None | | 1.9.4.1[FS] | 2.1.2.2.1[FS]; 1.9.5.10[FS]; 1.9.5.5[FS]; 1.1.1.4.1[FS]; 1.9.4.3[FS] |
| 1.9.4.3 | CD-2 | Complete | 0 | 15Sep08 15Sep08 | 01Oct08 01Oct08 | None | | None | | 1.9.5.50[FS]; 1.9.4.2[FS] | 2.9.2.2.21.1[FS]; 2.9.2.2.22.1[FS]; 2.9.3.2.1[FS]; 2.9.3.1.1[FS]; 1.0.1.1.3.1.2[FS]; 2.10.8.1[SS]; 2.4.5.1[FS]; 2.9.3.3.1[FS]; 2.8.1.1.1[FS]; 2.8.1.1.4[FS]; 2.9.1.3.1[FS]; 2.9.1.1.1[FS] |
| 1.9.5 | Other Management R&D Milestones | Complete | 340d | 12Apr07 15Aug08 | 12Apr07 16Jun08 | None | | None | | | |
| 1.9.5.5 | Cooperative-agreement institution determined | Complete | 0 | 11May07 11May07 | 11May07 11May07 | None | | None | | 1.9.4.2[FS] | 1.9.5.6[FS+20d]; 1.9.5.20[FS]; 1.9.5.10[FS+60d] |
| 1.9.5.6 | Aquisition strategy approved by DOE | Complete | 0 | 12Apr07 12Apr07 | 12Apr07 12Apr07 | None | | None | | 1.9.5.5[FS+20d]; 1.9.4.1[FS] | 1.9.5.10[FS] |
| 1.9.5.10 | Cooperative-agreement in place | Complete | 0 | 27Sep07 27Sep07 | 27Sep07 27Sep07 | None | | None | | 1.9.4.2[FS]; 1.9.5.6[FS]; 1.9.5.5[FS+60d] | 2.1.4.1.1[FS]; 1.9.5.15[FS]; 2.1.2.4.1.1[FS]; 2.1.4.1.2[FS]; 2.1.2.4.1.2[FS]; 2.1.1.1.1[FS]; 2.1.1.2.1[FS] |
| 1.9.5.15 | Cooperative-agreement funds available | Complete | 0 | 27Sep07 27Sep07 | 27Sep07 27Sep07 | None | | None | | 1.9.5.10[FS] | 2.1.2.4.2.1.2[FS]; 2.1.2.4.2.2.1[FS]; 2.1.2.4.2.2.2[FS]; 2.1.1.3.1[FS]; 2.1.2.4.2.1.1[FS]; 2.1.2.4.2.1.3.1[FS]; 2.1.2.4.2.1.3.2[FS]; 2.1.2.1.1[FS]; 2.1.1.1.2[FS]; 2.1.1.2.2[FS] |
| 1.9.5.20 | Far detector site selected | Complete | 0 | 11May07 11May07 | 11May07 11May07 | None | | None | | 1.9.5.5[FS] | 1.9.5.25[FS] |
| 1.9.5.25 | Building conceptual design frozen (FESS) | Complete | 0 | 11May07 11May07 | 11May07 11May07 | None | | None | | 1.9.5.20[FS] | |
| 1.9.5.30 | EA Sent Out for Public Comment | Complete | 0 | 27Mar08 27Mar08 | 01Apr08 01Apr08 | None | | None | | | 2.10.9.16[FS+22d] |
| 1.9.5.35 | Director's CD-2 Mini-review | Complete | 0 | 17Apr08 17Apr08 | 17Apr08 17Apr08 | None | | None | | | 1.9.5.40[FS] |
| 1.9.5.40 | DOE OHEP CD-2 Mini-review | Complete | 0 | 30Apr08 30Apr08 | 30Apr08 30Apr08 | None | | None | | 1.9.5.35[FS] | 1.9.5.45[FS+20d] |
| 1.9.5.45 | DOE OECM CD-2 EIR Follow-up review | Complete | 0 | 06Aug08 06Aug08 | 02Jun08 02Jun08 | None | | None | | 1.9.5.40[FS+20d] | 1.9.5.50[FS+10d] |
| 1.9.5.50 | CD-2 ESAAB | Complete | 0 | 15Aug08 15Aug08 | 16Jun08 16Jun08 | None | | None | | 1.9.5.45[FS+10d] | 1.9.4.3[FS]; 2.10.9.20[FS] |
| 2 | Construction Project | In Progress | 2006d | 01Dec06 26Nov14 | 01May07 26Nov14 | None | | None | | | |
| 2.0 | ANU Construction | In Progress | 1739d | 01Dec06 01Nov13 | 01May07 31Jan14 | None | | None | | | |
| 2.0.1 | Recycler Upgrades | In Progress | 1471d | 28Dec07 01Nov13 | 28Dec07 01Nov13 | None | | None | | | |
| 2.0.1.1 | Recycler Ring Modifications | In Progress | 1279d | 01Oct08 01Nov13 | 01Oct08 01Nov13 | None | | None | | | |
| 2.0.1.1.1 | Beam Lines (Transfer, Abort & RR 30 Straight) | In Progress | 1279d | 01Oct08 01Nov13 | 01Oct08 01Nov13 | None | | None | | | |
| 2.0.1.1.1.1 | Common Tooling for Permanent Magnet Assembly | Complete | 145d | 31Aug09 31Mar10 | 05Mar09 11Jun09 | None | | None | | | |
| 2.0.1.1.1.1.1 | Prep Req & Award PO for Tooling Parts | Complete | 40d | 31Aug09 15Oct09 | 05Mar09 29Apr09 | None | | None | | 1.0.1.1.2.2.6.3[FS]; 2.10.9.5[FS] | 2.0.1.1.1.1.2[FS] |
| 2.0.1.1.1.1.2 | Receive & Inspect Tooling Parts | Complete | 20d | 15Oct09 30Oct09 | 30Apr09 13May09 | None | | None | | 2.0.1.1.1.1.1[FS] | 2.0.1.1.1.1.3[FS] |
| 2.0.1.1.1.1.3 | Assemble Tooling | Complete | 20d | 30Oct09 31Mar10 | 14May09 11Jun09 | None | | None | | 2.0.1.1.1.1.2[FS] | 2.0.1.1.1.8.3[FS]; 2.0.1.1.1.5.4[FS]; 2.0.1.1.1.6.4[FS] |
| 2.0.1.1.1.2 | RR Magnet & Instrumentation Stands | Complete | 947d | 06May09 13Feb13 | 02Feb09 20Oct11 | None | | None | | | |
| 2.0.1.1.1.2.1 | Final Design IL Magnet Stands | Complete | 40d | 06May09 28Jun12 | 16Oct09 14Dec09 | None | | None | | 1.0.1.1.2.1.2.1[FS] | 2.0.1.1.1.2.6[FS] |
| 2.0.1.1.1.2.2 | Final Design EL Magnet Stands | Complete | 30d | 09Sep10 17Oct12 | 27Jan10 23Mar10 | None | | None | | 2.0.4.3.22[FS]; 1.0.1.1.2.1.2.2[FS] | 2.0.1.1.1.2.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.2.3 | Final Design RR-30 SS Magnet Stands | Complete | 25d | 15Sep10 17Oct12 | 11Oct10 12Nov10 | None | | None | | 2.10.9.7[FS]; 2.0.1.1.1.14.13[SS+10d] | 2.0.1.1.1.2.10[FS] |
| 2.0.1.1.1.2.4 | Final Design BA Kicker Stands | Complete | 19d | 30Nov09 03Feb10 | 02Feb09 26Feb09 | None | | None | | 1.0.1.2.4.1.1[FS] | 2.0.1.1.1.2.12[FS]; 1.0.1.2.6.8[FS] |
| 2.0.1.1.1.2.5 | Final Design Instrumentation Stands | Complete | 25d | 14Feb11 17Jan13 | 14Feb11 18Mar11 | None | | None | | 2.10.9.7[FS]; 2.0.1.1.1.14.7[SS+10d]; 2.0.1.1.1.14.2[SS+10d]; 2.0.1.1.1.14.13[SS+10d] | 2.0.1.1.1.2.14[FS] |
| 2.0.1.1.1.2.6 | Prep Req & Award PO for IL Magnet Stands | Complete | 40d | 01Sep10 27Jul12 | 05Jan11 02Mar11 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.1.1.2.1[FS]; 2.10.9.6[FS] | 2.0.1.1.1.2.7[FS] |
| 2.0.1.1.1.2.7 | Vendor Fab & Receive IL Magnet Stands | Complete | 80d | 28Jan11 29Aug12 | 03Mar11 23Jun11 | None | | None | | 2.0.1.1.1.2.6[FS] | |
| 2.0.1.1.1.2.8 | Prep Req & Award PO for EL Magnet Stands | Complete | 40d | 21Jan11 02Nov12 | 15Jun10 10Aug10 | None | | None | | 2.0.1.1.1.2.2[FS]; 2.10.9.6[FS] | 2.0.1.1.1.2.9[FS] |
| 2.0.1.1.1.2.9 | Vendor Fab & Receive EL Magnet Stands | Complete | 80d | 28Jan11 12Dec12 | 10Dec10 06Apr11 | None | | None | | 2.0.1.1.1.2.8[FS] | |
| 2.0.1.1.1.2.10 | Prep Req & Award PO for RR-30 SS Magnet Stands | Complete | 40d | 21Jan11 02Nov12 | 15Nov10 14Jan11 | None | | None | | 2.10.9.5[FS]; 2.0.1.1.1.2.3[FS] | 2.0.1.1.1.2.11[FS] |
| 2.0.1.1.1.2.11 | Vendor Fab & Receive RR-30 Magnet Stands | Complete | 70d | 28Jan11 12Dec12 | 21Mar11 27Jun11 | None | | None | | 2.0.1.1.1.2.10[FS] | |
| 2.0.1.1.1.2.12 | Prep Req & Award PO for BA Kicker Stands | Complete | 40d | 13Dec10 04Oct11 | 27Feb09 23Apr09 | None | | None | | 2.10.9.5[FS]; 2.0.1.1.1.2.4[FS]; 1.0.1.2.6.8[FS] | 2.0.1.1.1.2.13[FS] |
| 2.0.1.1.1.2.13 | Vendor Fab & Receive BA Kicker Magnet Stands | Complete | 60d | 01Apr11 15Apr11 | 24Apr09 20Jul09 | None | | None | | 2.0.1.1.1.2.12[FS] | 2.0.1.1.1.14.17[FS] |
| 2.0.1.1.1.2.14 | Prep Req & Award PO for RR Instrumentation Stands | Complete | 40d | 01Apr11 18Apr11 | 15Jun11 10Aug11 | None | | None | | 2.0.1.1.1.2.5[FS]; 2.10.9.5[FS] | 2.0.1.1.1.2.15[FS] |
| 2.0.1.1.1.2.15 | Vendor Fab & Receive RR Instrumentation Stands | Complete | 50d | 24Oct12 13Feb13 | 11Aug11 20Oct11 | None | | None | | 2.0.1.1.1.2.14[FS] | |
| 2.0.1.1.1.3 | Vertical Dipole Magnets | In Progress | 1279d | 01Oct08 01Nov13 | 01Oct08 01Nov13 | None | | None | | | |
| 2.0.1.1.1.3.1 | Final Design Bending Magnets (Obsolete) | Complete | 1d | 01Oct08 01Oct08 | 01Oct08 01Oct08 | None | | None | | 1.0.1.1.2.1.3.4[FS] | 2.0.1.1.1.3.2[FS] |
| 2.0.1.1.1.3.2 | Prep Req & Award PO for two (2) remaining ADC_W Parts | Complete | 50d | 02Nov09 28Apr10 | 08May09 20Jul09 | None | | None | | 1.0.1.1.2.1.3.10[FS]; 1.0.1.1.6.1[FS]; 1.0.1.1.2.1.3.2[FS]; 2.10.9.5[FS]; 2.0.1.1.1.3.1[FS] | 2.0.1.1.1.3.3[SS+10d]; 2.0.1.1.1.3.3[FF+10d] |
| 2.0.1.1.1.3.3 | Receive two (2) remaining ADC_W Parts | Complete | 50d | 09Nov09 17May10 | 22May09 03Aug09 | None | | None | | 2.0.1.1.1.3.2[SS+10d]; 2.0.1.1.1.3.2[FF+10d] | 2.0.1.1.1.3.4[FS] |
| 2.0.1.1.1.3.4 | Refurbish two (2) remaining bending magnets (currently in storage) | Complete | 30d | 04Jan10 05Oct10 | 01Jun10 13Jul10 | None | | None | | 2.0.1.1.1.3.3[FS] | 2.0.1.1.5.4[FS]; 2.0.1.1.1.14.4[FS]; 2.0.1.1.1.3.9[FS] |
| 2.0.1.1.1.3.5 | Vertical Dipole Magnet Power Supplies | Complete | 702d | 01Jul10 17Apr13 | 01Jul10 20Feb13 | None | | None | | | |
| 2.0.1.1.1.3.5.1 | Final Design Vertical Magnet Power Supplies | Complete | 1d | 01Jul10 01Jul10 | 01Jul10 01Jul10 | None | | None | | 1.0.1.1.2.1.3.1[FS] | 2.0.1.1.1.3.5.12[FS]; 2.0.1.1.1.3.5.2[FS]; 2.0.1.1.1.3.5.4[FS]; 2.0.1.1.1.3.5.6[FS]; 2.0.1.1.1.3.5.19[FS+30d] |
| 2.0.1.1.1.3.5.2 | Prep Req & Award PO for Spang Power Supplies (OBSOLETE) | Complete | 1d | 02Jul10 02Jul10 | 02Jul10 02Jul10 | None | | None | | 2.0.1.1.1.3.5.1[FS]; 2.10.9.6[FS] | 2.0.1.1.1.3.5.3[FS] |
| 2.0.1.1.1.3.5.3 | Receive Spang Power Supplies (OBSOLETE) | Complete | 1d | 06Jul10 06Jul10 | 06Jul10 06Jul10 | None | | None | | 2.0.1.1.1.3.5.2[FS] | 2.0.1.1.1.3.5.9[FS] |
| 2.0.1.1.1.3.5.4 | Procure Regulator Parts for Spang (OBSOLETE) | Complete | 1d | 02Jul10 02Jul10 | 02Jul10 02Jul10 | None | | None | | 2.0.1.1.1.3.5.1[FS]; 2.10.9.6[FS] | 2.0.1.1.1.3.5.5[FS] |
| 2.0.1.1.1.3.5.5 | Fabricate Regulators (OBSOLETE) | Complete | 1d | 06Jul10 06Jul10 | 06Jul10 06Jul10 | None | | None | | 2.0.1.1.1.3.5.4[FS] | 2.0.1.1.1.3.5.9[FS] |
| 2.0.1.1.1.3.5.6 | Prep Req & Award PO for Switcher Parts (OBSOLETE) | Complete | 1d | 02Jul10 02Jul10 | 02Jul10 02Jul10 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.3.5.1[FS] | 2.0.1.1.1.3.5.7[FS] |
| 2.0.1.1.1.3.5.7 | Receive Switcher Parts (OBSOLETE) | Complete | 1d | 06Jul10 06Jul10 | 06Jul10 06Jul10 | None | | None | | 2.0.1.1.1.3.5.6[FS] | 2.0.1.1.1.3.5.8[FS] |
| 2.0.1.1.1.3.5.8 | Fabricate & Test Switcher Supply (OBSOLETE) | Complete | 1d | 07Jul10 07Jul10 | 07Jul10 07Jul10 | None | | None | | 2.0.1.1.1.3.5.7[FS] | 2.0.1.1.1.3.5.9[FS] |
| 2.0.1.1.1.3.5.9 | Install Vertical Dipole Magnet Power Supplies (OBSOLETE) | Complete | 1d | 08Jul10 08Jul10 | 08Jul10 08Jul10 | None | | None | | 2.0.1.1.1.3.5.8[FS]; 2.0.1.1.1.3.5.3[FS]; 2.0.1.1.1.3.5.5[FS]; 2.0.4.4.1.4[FS] | 2.0.1.1.1.3.5.10[FS] |
| 2.0.1.1.1.3.5.10 | Install Vertical Dipole Magnet PS Cables for Injection Line (OBSOLETE) | Complete | 1d | 28Jul10 28Jul10 | 28Jul10 28Jul10 | None | | None | | 2.0.1.1.1.13.2[FS]; 2.0.1.1.1.3.5.9[FS]; 2.0.1.1.1.13.1[FS] | 2.0.1.1.1.3.5.11[FS] |
| 2.0.1.1.1.3.5.11 | Install Vertical Dipole Magnet PS Cables for Extraction Line (OBSOLETE) | Complete | 1d | 28Jul10 28Jul10 | 29Jul10 29Jul10 | None | | None | | 2.0.1.1.1.3.5.10[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.3.5.12 | Prepare Req's for bulk power supplies & filter racks | Complete | 1d | 27Aug10 15Aug11 | 01Sep10 01Sep10 | None | | None | | 2.0.1.1.1.3.5.1[FS] | 2.0.1.1.1.3.5.14[FS+40d]; 2.0.1.1.1.3.5.16[FS]; 2.0.1.1.1.3.5.13[FS+40d] |
| 2.0.1.1.1.3.5.13 | Receive Power Bulk Power Supplies (four systems) | Complete | 1d | 28Jan11 28Jan11 | 03Jan11 03Jan11 | None | | None | | 2.0.1.1.1.3.5.12[FS+40d] | 2.0.1.1.1.3.5.15[FS+40d] |
| 2.0.1.1.1.3.5.14 | Receive Filter Racks | Complete | 1d | 15Sep10 15Aug11 | 29Oct10 29Oct10 | None | | None | | 2.0.1.1.1.3.5.12[FS+40d] | 2.0.1.1.1.3.5.15[FS+40d] |
| 2.0.1.1.1.3.5.15 | Assemble Filter Racks and Power Supplies | Complete | 20d | 24May11 17Sep12 | 02Jun11 29Jun11 | None | | None | | 2.0.1.1.1.3.5.14[FS+40d]; 2.0.1.1.1.3.5.13[FS+40d] | 2.0.1.1.1.3.5.37[FS] |
| 2.0.1.1.1.3.5.16 | Prepare Req's Bulk Supply Regulator Parts | Complete | 20d | 27Aug10 17Sep12 | 02Sep10 30Sep10 | None | | None | | 2.0.1.1.1.3.5.12[FS] | 2.0.1.1.1.3.5.17[FS+40d] |
| 2.0.1.1.1.3.5.17 | Receive Bulk Supply Regulator Parts | Complete | 1d | 15Sep10 15Jun12 | 30Nov10 30Nov10 | None | | None | | 2.0.1.1.1.3.5.16[FS+40d] | 2.0.1.1.1.3.5.18[FS] |
| 2.0.1.1.1.3.5.18 | Assemble Bulk Supply Regulators | Complete | 40d | 27May11 17Sep12 | 01Dec10 31Jan11 | None | | None | | 2.0.1.1.1.3.5.17[FS] | 2.0.1.1.1.3.5.28.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.3.5.19 | Prepare Req's for Switch Magnet Supply | Complete | 10d | 14Mar11 15Jun12 | 01Sep10 15Sep10 | None | | None | | 2.0.1.1.1.3.5.1[FS+30d] | 2.0.1.1.1.3.5.22[FS+70d]; 2.0.1.1.1.3.5.21[FS+70d]; 2.0.1.1.1.3.5.23.2[SS]; 2.0.1.1.1.3.5.23.1[SS]; 2.0.1.1.1.3.5.20[FS+70d] |
| 2.0.1.1.1.3.5.20 | Receive Charging Power Supplies | Complete | 1d | 16Apr12 16Apr12 | 29Dec10 29Dec10 | None | | None | | 2.0.1.1.1.3.5.19[FS+70d] | 2.0.1.1.1.3.5.28.2[FS] |
| 2.0.1.1.1.3.5.21 | Receive Bulk Switcher Power Supply | Complete | 1d | 18Jul11 15Jun12 | 29Dec10 29Dec10 | None | | None | | 2.0.1.1.1.3.5.19[FS+70d] | 2.0.1.1.1.3.5.28.2[FS] |
| 2.0.1.1.1.3.5.22 | Receive Cap Bank | Complete | 1d | 29Dec11 29Dec11 | 29Dec10 29Dec10 | None | | None | | 2.0.1.1.1.3.5.19[FS+70d] | 2.0.1.1.1.3.5.28.2[FS] |
| 2.0.1.1.1.3.5.23 | Design Switch | Complete | 493d | 02May11 17Apr13 | 01Sep10 27Oct10 | None | | None | | | |
| 2.0.1.1.1.3.5.23.1 | Design enclosures | Complete | 40d | 01Jun11 17Apr13 | 01Sep10 27Oct10 | None | | None | | 2.0.1.1.1.3.5.19[SS] | 2.0.1.1.1.3.5.26[FS+60d]; 2.0.1.1.1.3.5.24[FS+5d] |
| 2.0.1.1.1.3.5.23.2 | Design SCR and IGbT switches | Complete | 30d | 02May11 27Mar13 | 01Sep10 13Oct10 | None | | None | | 2.0.1.1.1.3.5.19[SS] | 2.0.1.1.1.3.5.26[FS+60d]; 2.0.1.1.1.3.5.24[FS+5d]; 2.0.1.1.1.3.5.29.1[FS] |
| 2.0.1.1.1.3.5.24 | Prepare reqs for switch | Complete | 5d | 03May11 27Mar13 | 04Nov10 10Nov10 | None | | None | | 2.0.1.1.1.3.5.23.1[FS+5d]; 2.0.1.1.1.3.5.23.2[FS+5d] | 2.0.1.1.1.3.5.25.3[FS+40d]; 2.0.1.1.1.3.5.25.2[FS+40d]; 2.0.1.1.1.3.5.25.1[FS+40d] |
| 2.0.1.1.1.3.5.25 | Receive Switch Parts | Complete | 464d | 20May11 27Mar13 | 10May11 16Sep11 | None | | None | | | |
| 2.0.1.1.1.3.5.25.1 | Receive enclosures | Complete | 1d | 15May12 26Nov12 | 08Sep11 08Sep11 | None | | None | | 2.0.1.1.1.3.5.24[FS+40d] | 2.0.1.1.1.3.5.28.1[FS] |
| 2.0.1.1.1.3.5.25.2 | Receive SCR and IGbT parts | Complete | 1d | 20May11 27Mar13 | 10May11 10May11 | None | | None | | 2.0.1.1.1.3.5.24[FS+40d] | 2.0.1.1.1.3.5.28.2[FF] |
| 2.0.1.1.1.3.5.25.3 | Receive misc hardware and materials | Complete | 2d | 15Dec11 27Mar13 | 15Sep11 16Sep11 | None | | None | | 2.0.1.1.1.3.5.24[FS+40d] | 2.0.1.1.1.3.5.28.2[FF] |
| 2.0.1.1.1.3.5.26 | Prepare req for DCCT | Complete | 1d | 19Jul11 28Sep11 | 22Sep11 22Sep11 | None | | None | | 2.0.1.1.1.3.5.23.1[FS+60d]; 2.0.1.1.1.3.5.23.2[FS+60d] | 2.0.1.1.1.3.5.27[FS+40d] |
| 2.0.1.1.1.3.5.27 | Receive DCCT | Complete | 1d | 16Apr12 28May12 | 18Nov11 18Nov11 | None | | None | | 2.0.1.1.1.3.5.26[FS+40d] | 2.0.1.1.1.3.5.28.2[FS] |
| 2.0.1.1.1.3.5.28 | Assemble Switch Magnet Supply | Complete | 220d | 01Jun12 17Apr13 | 09Sep11 13Mar12 | None | | None | | | |
| 2.0.1.1.1.3.5.28.1 | Assemble enclosures | Complete | 15d | 01Jun12 17Apr13 | 09Sep11 29Sep11 | None | | None | | 2.0.1.1.1.3.5.25.1[FS] | 2.0.1.1.1.3.5.36[FS]; 2.0.1.1.1.3.5.33[FS] |
| 2.0.1.1.1.3.5.28.2 | Assemble cap bank and switch | Complete | 75d | 01Jun12 17Apr13 | 21Nov11 13Mar12 | None | | None | | 2.0.1.1.1.3.5.27[FS]; 2.0.1.1.1.3.5.20[FS]; 2.0.1.1.1.3.5.22[FS]; 2.0.1.1.1.3.5.21[FS]; 2.0.1.1.1.3.5.25.3[FF]; 2.0.1.1.1.3.5.25.2[FF]; 2.0.1.1.1.3.5.18[FS] | 2.0.1.1.1.3.5.33[FS] |
| 2.0.1.1.1.3.5.29 | Design Switch Magnet Supply Regulator | Complete | 474d | 27May11 17Apr13 | 14Oct10 24Nov10 | None | | None | | | |
| 2.0.1.1.1.3.5.29.1 | Design regulator | Complete | 10d | 27May11 17Apr13 | 14Oct10 27Oct10 | None | | None | | 2.0.1.1.1.3.5.23.2[FS] | 2.0.1.1.1.3.5.29.2[FF]; 2.0.1.1.1.3.5.30[FS] |
| 2.0.1.1.1.3.5.29.2 | Board layout | Complete | 20d | 16Jul12 17Apr13 | 28Oct10 24Nov10 | None | | None | | 2.0.1.1.1.3.5.29.1[FF] | 2.0.1.1.1.3.5.30[FS] |
| 2.0.1.1.1.3.5.30 | Prepare req switch supply regulator parts | Complete | 2d | 29Aug11 17Apr13 | 29Nov10 30Nov10 | None | | None | | 2.0.1.1.1.3.5.29.1[FS]; 2.0.1.1.1.3.5.29.2[FS] | 2.0.1.1.1.3.5.31[FF+8d] |
| 2.0.1.1.1.3.5.31 | Receive req switch supply regulator parts | Complete | 52d | 15Nov12 17Apr13 | 13Jan12 20Jan12 | None | | None | | 2.0.1.1.1.3.5.30[FF+8d] | 2.0.1.1.1.3.5.32[FF+8d] |
| 2.0.1.1.1.3.5.32 | Assemble switch supply regulators | Complete | 60d | 15Oct12 17Apr13 | 23Jan12 13Apr12 | None | | None | | 2.0.1.1.1.3.5.31[FF+8d] | |
| 2.0.1.1.1.3.5.33 | Prepare req Switch Supply Load Cable & Dedicated 208VAC Transformer | Complete | 5d | 16Apr12 15Jun12 | 04Oct12 10Oct12 | None | | None | | 2.0.1.1.1.3.5.28.2[FS]; 2.0.1.1.1.3.5.28.1[FS] | 2.0.1.1.1.3.5.35[FS+40d]; 2.0.1.1.1.3.5.34[FS+40d] |
| 2.0.1.1.1.3.5.34 | Receive switch supply load cable | Complete | 1d | 16Jul12 16Jul12 | 10Dec12 10Dec12 | None | | None | | 2.0.1.1.1.3.5.33[FS+40d] | 2.0.1.1.1.3.5.36[FS] |
| 2.0.1.1.1.3.5.35 | Receive switch supply dedicated 208VAC transformer | Complete | 1d | 16Jul12 16Jul12 | 10Dec12 10Dec12 | None | | None | | 2.0.1.1.1.3.5.33[FS+40d] | 2.0.1.1.1.3.5.36[FS]; 2.0.1.1.1.3.5.43[FS] |
| 2.0.1.1.1.3.5.36 | Test switch magnet power supply | Complete | 10d | 11Mar13 17Apr13 | 02Jan13 13Feb13 | None | | None | | 2.0.1.1.1.3.5.35[FS]; 2.0.1.1.1.3.5.34[FS]; 2.0.1.1.1.3.5.28.1[FS] | 2.0.1.1.1.3.5.37[FS] |
| 2.0.1.1.1.3.5.37 | Install and test all power supplies | Complete | 5d | 11Mar13 17Apr13 | 14Feb13 20Feb13 | None | | None | | 2.0.1.1.1.3.5.36[FS]; 2.0.1.1.1.3.5.15[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.3.5.38 | Install Vertical Dipole Magnet PS Cables for Injection Line 8 GeV (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.5.39 | Install Vertical Dipole Magnet PS Cables for Extraction from MI (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.5.40 | Install 2 each Vertical Dipole Magnet PS Cables for Extraction Line (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.5.41 | Install Vertical Dipole Magnet PS Cables for Injection to MI (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.5.42 | Install Vertical Switch Magnet PS Cables for 8 Gev Extraction (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.5.43 | Install Dedicated 208VAC Transformer for Switch Magnet PS | Complete | 10d | 01Jun12 22Jun12 | 11Dec12 26Dec12 | None | | None | | 2.0.1.1.1.3.5.35[FS]; 2.10.10.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.3.6 | Final design of ADCW switch cooled beam tube | Complete | 15d | 15Apr10 15Jul10 | 05Apr10 23Apr10 | None | | None | | | 2.0.1.1.1.3.7[FS] |
| 2.0.1.1.1.3.7 | Procure and fabricate ADCW switch cooled beam tube | Complete | 10d | 01Sep10 02Mar12 | 17May10 28May10 | None | | None | | 2.0.1.1.1.3.6[FS] | 2.0.1.1.5.4[FS] |
| 2.0.1.1.1.3.8 | Injection Line Ramping Correctors | Complete | 625d | 31Aug10 27Feb13 | 01Sep10 12Jun12 | None | | None | | | |
| 2.0.1.1.1.3.8.1 | Switcher Channels at MI-14 | Complete | 625d | 31Aug10 27Feb13 | 01Sep10 15Nov11 | None | | None | | | |
| 2.0.1.1.1.3.8.1.1 | Layout System 16 switcher channels at MI-14 | Complete | 1d | 31Aug10 31Aug10 | 01Sep10 01Sep10 | None | | None | | | 2.0.1.1.1.3.8.5.1[SS+10d]; 2.0.1.1.1.3.8.4.1[SS+15d]; 2.0.1.1.1.3.8.3.1[SS+10d]; 2.0.1.1.1.3.8.1.2[SS]; 2.0.1.1.1.3.8.2.1[SS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.3.8.1.2 | Prepare Req's for switcher cell parts | Complete | 30d | 01Aug11 15Oct12 | 01Nov10 14Dec10 | None | | None | | 2.0.1.1.1.3.8.1.1[SS] | 2.0.1.1.1.3.8.1.3[FS-10d] |
| 2.0.1.1.1.3.8.1.3 | Receive switcher cell parts | Complete | 50d | 29Aug11 15Oct12 | 01Dec10 14Feb11 | None | | None | | 2.0.1.1.1.3.8.1.2[FS-10d] | 2.0.1.1.1.3.8.1.4[FS] |
| 2.0.1.1.1.3.8.1.4 | Prepare Req for switcher cell assembly at local company | Complete | 1d | 28Sep11 28Sep11 | 10Aug11 10Aug11 | None | | None | | 2.0.1.1.1.3.8.1.3[FS] | 2.0.1.1.1.3.8.1.5[FS+60d] |
| 2.0.1.1.1.3.8.1.5 | Receive Switcher Cell Assembly | Complete | 4d | 06Feb13 27Feb13 | 04Nov11 09Nov11 | None | | None | | 2.0.1.1.1.3.8.1.4[FS+60d] | 2.0.1.1.1.3.8.1.6[FS] |
| 2.0.1.1.1.3.8.1.6 | Test Switcher Cell Assembly | Complete | 4d | 06Feb13 27Feb13 | 10Nov11 15Nov11 | None | | None | | 2.0.1.1.1.3.8.1.5[FS] | 2.0.1.1.1.3.8.3.3[FS] |
| 2.0.1.1.1.3.8.2 | Bulk Supply Magnetics | Complete | 44d | 31Aug10 01Nov10 | 01Sep10 29Oct10 | None | | None | | | |
| 2.0.1.1.1.3.8.2.1 | Prepare req's for bulk supply magnetics | Complete | 1d | 31Aug10 31Aug10 | 01Sep10 01Sep10 | None | | None | | 2.0.1.1.1.3.8.1.1[SS] | 2.0.1.1.1.3.8.2.2[FS+40d] |
| 2.0.1.1.1.3.8.2.2 | Receive bulk supply magnetics | Complete | 1d | 01Nov10 01Nov10 | 29Oct10 29Oct10 | None | | None | | 2.0.1.1.1.3.8.2.1[FS+40d] | 2.0.1.1.1.3.8.6.3[FS+30d] |
| 2.0.1.1.1.3.8.3 | System Racks | Complete | 492d | 01Nov10 15Oct12 | 16Sep10 15Dec11 | None | | None | | | |
| 2.0.1.1.1.3.8.3.1 | Prepare req's for system racks | Complete | 1d | 01Nov10 15Jun12 | 16Sep10 16Sep10 | None | | None | | 2.0.1.1.1.3.8.1.1[SS+10d] | 2.0.1.1.1.3.8.3.2[FS+20d] |
| 2.0.1.1.1.3.8.3.2 | Receive racks | Complete | 1d | 01Nov10 15Jun12 | 15Oct10 15Oct10 | None | | None | | 2.0.1.1.1.3.8.3.1[FS+20d] | 2.0.1.1.1.3.8.3.3[FS] |
| 2.0.1.1.1.3.8.3.3 | Assemble racks install switcher cells (cable, connectors, hardware) | Complete | 20d | 15Jun12 15Oct12 | 16Nov11 15Dec11 | None | | None | | 2.0.1.1.1.3.8.3.2[FS]; 2.0.1.1.1.3.8.1.6[FS] | 2.0.1.1.1.3.8.6.3[FS+30d] |
| 2.0.1.1.1.3.8.4 | Bulk Supply Controls | Complete | 300d | 15Dec11 27Feb13 | 23Sep10 20Apr11 | None | | None | | | |
| 2.0.1.1.1.3.8.4.1 | Prepare Req's for Bulk Supply Controls | Complete | 10d | 01Feb12 15Oct12 | 23Sep10 06Oct10 | None | | None | | 2.0.1.1.1.3.8.1.1[SS+15d] | 2.0.1.1.1.3.8.4.2[FS+40d] |
| 2.0.1.1.1.3.8.4.2 | Receive bulk power supply controller parts | Complete | 2d | 15Dec11 15Oct12 | 06Dec10 07Dec10 | None | | None | | 2.0.1.1.1.3.8.4.1[FS+40d] | 2.0.1.1.1.3.8.4.3[FS] |
| 2.0.1.1.1.3.8.4.3 | Test Bulk power supply controller | Complete | 10d | 17Sep12 27Feb13 | 08Dec10 21Dec10 | None | | None | | 2.0.1.1.1.3.8.4.2[FS] | 2.0.1.1.1.3.8.4.4[FS+10d] |
| 2.0.1.1.1.3.8.4.4 | Install and test bulk power supply controller (cable, connectors, hardware) | Complete | 5d | 17Sep12 27Feb13 | 14Apr11 20Apr11 | None | | None | | 2.0.1.1.1.3.8.4.3[FS+10d] | 2.0.1.1.1.3.8.6.3[FS+30d] |
| 2.0.1.1.1.3.8.5 | Cabling | Complete | 118d | 17Jan12 29Jun12 | 16Sep10 18Oct10 | None | | None | | | |
| 2.0.1.1.1.3.8.5.1 | Layout cable routing to tunnel | Complete | 1d | 01Feb12 15Jun12 | 16Sep10 16Sep10 | None | | None | | 2.0.1.1.1.3.8.1.1[SS+10d] | 2.0.1.1.1.3.8.5.2[FS+10d] |
| 2.0.1.1.1.3.8.5.2 | Prepare Req's for cable and connectors | Complete | 1d | 17Jan12 15Feb12 | 01Oct10 01Oct10 | None | | None | | 2.0.1.1.1.3.8.5.1[FS+10d] | 2.0.1.1.1.3.8.5.3[FS+10d] |
| 2.0.1.1.1.3.8.5.3 | Receive cable and connectors | Complete | 1d | 16Jun12 29Jun12 | 18Oct10 18Oct10 | None | | None | | 2.0.1.1.1.3.8.5.2[FS+10d] | |
| 2.0.1.1.1.3.8.6 | Installation | Complete | 330d | 01Nov11 27Feb13 | 01Nov11 12Jun12 | None | | None | | | |
| 2.0.1.1.1.3.8.6.1 | Install Dipole Magnet PS Cables for Injection Line 8 GeV (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.8.6.2 | Install Quad Magnet PS Cables for Extraction from MI (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | |
| 2.0.1.1.1.3.8.6.3 | Install and Test all Power Supplies | Complete | 5d | 17Sep12 27Feb13 | 06Jun12 12Jun12 | None | | None | | 2.0.1.1.1.3.8.2.2[FS+30d]; 2.0.1.1.1.3.8.4.4[FS+30d]; 2.0.1.1.1.3.8.3.3[FS+30d] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.3.9 | SPS assignments | Planned | 1d | 01Nov13 01Nov13 | 01Nov13 01Nov13 | Not Earlier Than | 01Nov13 | None | | 2.0.1.1.1.3.4[FS] | 2.0.1.2.1.1.21[SS] |
| 2.0.1.1.1.4 | RR Permanent Quadrupoles | Complete | 642d | 01Sep09 23Mar12 | 01Sep09 22Dec11 | None | | None | | | |
| 2.0.1.1.1.4.1 | Final Engineering Design for new quadrupole magnets | Complete | 40d | 15Sep10 13May11 | 15Sep10 09Nov10 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.1.1.4.10[FS]; 1.0.1.1.2.1.4.5[FS] | 2.0.1.1.1.4.13[FS]; 2.0.1.1.1.4.12[FS] |
| 2.0.1.1.1.4.2 | Prep Purch Req & Award PO for refurbished magnets from tunnel (OBSOLETE) | Complete | 1d | 03May10 03May10 | 03May10 03May10 | None | | None | | 2.10.9.5[FS] | 2.0.1.1.1.4.6[FS]; 2.0.1.1.1.4.3[FF+5d] |
| 2.0.1.1.1.4.3 | Receive & Inspect Parts for refurbished magnets from tunnel (OBSOLETE) | Complete | 1d | 10May10 10May10 | 10May10 10May10 | None | | None | | 2.0.1.1.1.4.2[FF+5d] | 2.0.1.1.1.4.7[FS] |
| 2.0.1.1.1.4.4 | Fabricate New Magnet (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | | |
| 2.0.1.1.1.4.5 | Access Magnets from Storage | Complete | 5d | 01Mar10 01Mar10 | 22Dec09 30Dec09 | None | | None | | 1.0.1.1.2.1.4.5[FS] | 2.0.1.1.1.4.10[FS]; 2.0.1.1.1.14.9[FF+10d] |
| 2.0.1.1.1.4.6 | Access Magnets Removed from Tunnel (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 21Dec11 21Dec11 | None | | None | | 1.0.1.1.2.2.2.1[SS]; 2.0.1.1.1.4.2[FS] | 2.0.1.1.1.4.7[FS] |
| 2.0.1.1.1.4.7 | Trim/modify 33 magnets from tunnel (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 22Dec11 22Dec11 | None | | None | | 2.0.1.1.1.4.3[FS]; 2.0.1.1.1.4.6[FS] | |
| 2.0.1.1.1.4.8 | Prep req and award PO for parts for spare RQN magnets | Complete | 10d | 02Nov09 14Jun10 | 02Oct09 15Oct09 | None | | None | | 1.0.1.1.2.1.4.5[FS] | 2.0.1.1.1.4.9[FS] |
| 2.0.1.1.1.4.9 | Receive and inspect parts for spare RQN magnets | Complete | 50d | 16Nov09 14Jun10 | 16Oct09 30Dec09 | None | | None | | 2.0.1.1.1.4.8[FS] | 2.0.1.1.1.4.10[FS] |
| 2.0.1.1.1.4.10 | Trim/modify 4 magnets in storage | Complete | 40d | 25Jan10 14Sep10 | 04Jan10 01Mar10 | None | | None | | 2.0.1.1.1.4.5[FS]; 2.0.1.1.1.4.9[FS] | 2.0.1.1.1.4.11[FS-8d]; 2.0.1.1.1.4.1[FS] |
| 2.0.1.1.1.4.11 | Prep req and award PO for parts for 43 new RQN magnets | Complete | 8d | 06Jul10 27Aug10 | 30Jun10 12Jul10 | None | | None | | 2.0.1.1.1.4.10[FS-8d] | 2.0.1.1.1.4.12[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.4.12 | Receive and inspect parts for 43 new RQN magnets | Complete | 65d | 04Oct10 15Aug11 | 10Nov10 16Feb11 | None | | None | | 2.0.1.1.1.4.11[FS]; 2.0.1.1.1.4.1[FS] | 2.0.1.1.1.4.13[FS] |
| 2.0.1.1.1.4.13 | Fabricate 43 new magnets | Complete | 151d | 25Jan11 23Mar12 | 17Feb11 20Sep11 | None | | None | | 2.0.1.1.1.4.1[FS]; 2.0.1.1.1.4.12[FS] | 2.0.1.1.5.2[FS] |
| 2.0.1.1.1.5 | IL PDD Magnets | Complete | 126d | 01Apr10 28Sep10 | 11May09 20Jul10 | None | | None | | | |
| 2.0.1.1.1.5.1 | Final PDD Design & Tooling | Complete | 20d | 01Apr10 28Apr10 | 18May09 15Jun09 | None | | None | | 1.0.1.1.2.1.5.1[FS]; 1.0.1.1.2.1.5.6[FS] | 1.0.1.1.2.1.6.1[FS]; 2.0.1.1.1.5.2[FS-10d] |
| 2.0.1.1.1.5.2 | Prep Req & Award PO for IL PDD Parts | Complete | 65d | 01Apr10 28Apr10 | 11May09 11Aug09 | None | | None | | 2.10.9.7[FS]; 2.0.1.1.1.5.1[FS-10d]; 2.10.9.5[FS] | 2.0.1.1.1.5.3[FF+10d] |
| 2.0.1.1.1.5.3 | Receive IL PDD Parts | Complete | 65d | 01Apr10 30Jun10 | 26May09 25Aug09 | None | | None | | 2.0.1.1.1.5.2[FF+10d] | 2.0.1.1.1.5.4[FS] |
| 2.0.1.1.1.5.4 | Assemble & Trim IL PDD Magnets | Complete | 40d | 28Apr10 28Sep10 | 24May10 20Jul10 | None | | None | | 2.0.1.1.1.5.3[FS]; 2.0.1.1.1.1.3[FS] | 2.0.1.1.1.14.4[FS] |
| 2.0.1.1.1.6 | IL PDDW Magnets | Complete | 169d | 28Apr10 29Dec10 | 08Jun10 24Nov10 | None | | None | | | |
| 2.0.1.1.1.6.1 | Final Design IL PDDW Magnets | Complete | 40d | 29Jun10 01Sep10 | 08Jun10 03Aug10 | None | | None | | 1.0.1.1.2.1.6.1[FS] | 2.0.1.1.1.6.2[SS+20d] |
| 2.0.1.1.1.6.2 | Prep Req & Award PO for IL PDDW Parts | Complete | 65d | 28Apr10 10Jun10 | 07Jul10 06Oct10 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.6.1[SS+20d] | 2.0.1.1.1.6.3[FF+10d] |
| 2.0.1.1.1.6.3 | Receive IL PDDW Parts | Complete | 65d | 02Aug10 22Oct10 | 21Jul10 20Oct10 | None | | None | | 2.0.1.1.1.6.2[FF+10d] | 2.0.1.1.1.6.4[FS] |
| 2.0.1.1.1.6.4 | Assemble & Trim IL PDDW Magnets | Complete | 25d | 22Oct10 29Dec10 | 21Oct10 24Nov10 | None | | None | | 2.0.1.1.1.6.3[FS]; 2.0.1.1.1.1.3[FS] | 2.0.1.1.1.14.4[FS] |
| 2.0.1.1.1.7 | Trim Magnets | Complete | 127d | 07Oct11 11Apr12 | 20Oct11 27Jan12 | None | | None | | | |
| 2.0.1.1.1.7.1 | Power Supply Placement | Complete | 5d | 07Oct11 17Oct11 | 21Dec11 29Dec11 | None | | None | | 2.0.4.3.12[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.7.2 | Procure laminations | Complete | 30d | 31Oct11 01Nov11 | 20Oct11 02Dec11 | None | | None | | 1.0.1.1.5.3[FS] | 2.0.1.1.1.7.3[FS] |
| 2.0.1.1.1.7.3 | MQTM stack | Complete | 10d | 01Nov11 22Dec11 | 05Dec11 16Dec11 | None | | None | | 2.0.1.1.1.7.2[FS] | 2.0.1.1.1.7.4[FS] |
| 2.0.1.1.1.7.4 | MQTM magnet assembly | Complete | 10d | 15Nov11 17Jan12 | 19Dec11 05Jan12 | None | | None | | 2.0.1.1.1.7.3[FS] | 2.0.1.1.1.7.5[FS] |
| 2.0.1.1.1.7.5 | MQTM magnet inspection | Complete | 5d | 12Jan12 17Jan12 | 06Jan12 12Jan12 | None | | None | | 2.0.1.1.1.7.4[FS] | 2.0.1.1.1.7.6[FS] |
| 2.0.1.1.1.7.6 | MQTM magnet measure | Complete | 10d | 30Mar12 11Apr12 | 13Jan12 27Jan12 | None | | None | | 2.0.1.1.1.7.5[FS] | |
| 2.0.1.1.1.8 | PDS Magnets | Complete | 298d | 12Nov09 25Jan11 | 29Dec09 20Oct10 | None | | None | | | |
| 2.0.1.1.1.8.1 | Prep Req & Award PO for SmCo5 bricks | Complete | 10d | 12Nov09 30Nov09 | 29Dec09 13Jan10 | None | | None | | 1.0.1.1.5.6[FS+29d]; 1.0.1.1.6.6[FS]; 1.0.1.1.2.1.8.2[FF+10d]; 2.10.9.5[FS] | 2.0.1.1.1.8.2[FS]; 2.0.1.1.1.8.4[FS+40d] |
| 2.0.1.1.1.8.2 | Receive IL PDS SmCo5 bricks | Complete | 38d | 01Dec09 01Feb10 | 14Jan10 06May10 | None | | None | | 2.0.1.1.1.8.1[FS] | 2.0.1.1.1.8.4[SS+40d]; 2.0.1.1.1.8.5[FF] |
| 2.0.1.1.1.8.3 | Test magnets | Complete | 20d | 28Sep10 25Jan11 | 23Sep10 20Oct10 | None | | None | | 2.0.1.1.1.8.5[FS]; 2.0.1.1.1.1.3[FS] | 2.0.1.1.1.14.4[FS] |
| 2.0.1.1.1.8.4 | Prep purch req and award PO for PDS magnet from industry | Complete | 10d | 29Jan10 11Mar10 | 12Mar10 25Mar10 | None | | None | | 2.0.1.1.1.8.1[FS+40d]; 2.0.1.1.1.8.2[SS+40d] | 2.0.1.1.1.8.5[FS+84d] |
| 2.0.1.1.1.8.5 | Receive PDS magnets from industry | Complete | 15d | 02Aug10 24Aug10 | 01Sep10 22Sep10 | None | | None | | 2.0.1.1.1.8.4[FS+84d]; 2.0.1.1.1.8.2[FF] | 2.0.1.1.1.8.3[FS] |
| 2.0.1.1.1.9 | Vacuum System | Complete | 418d | 28Oct11 28Jun13 | 01Dec11 31Aug12 | None | | None | | | |
| 2.0.1.1.1.9.1 | Procure IL Misc Mechanical Equip | Complete | 120d | 28Oct11 10Apr13 | 01Dec11 23May12 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.14.3[SS+10d] | |
| 2.0.1.1.1.9.2 | Procure EL Misc Mechanical Equip | Complete | 120d | 28Oct11 28Jun13 | 06Dec11 29May12 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.14.8[SS+10d] | 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.1.9.3 | Procure RR-30 SS Misc Mechanical Equipment | Complete | 120d | 06Jan12 24May13 | 01Dec11 23May12 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.14.14[SS] | 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.1.9.4 | Procure Beam Abort Misc Mechanical Equipment | Complete | 120d | 27Apr12 28Jun13 | 01Dec11 23May12 | None | | None | | 2.10.9.6[FS]; 2.0.1.1.1.14.14[FF] | 2.0.1.1.1.14.32.2[SS+30d] |
| 2.0.1.1.1.9.5 | Receive additional ion pumps | Complete | 23d | 24Aug12 24Aug12 | 01Aug12 31Aug12 | None | | None | | 2.0.1.1.1.14.3[SS] | 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.1.10 | Lambertson, 8GEV | Complete | 731d | 02Nov09 28Sep12 | 07Apr09 28Sep12 | None | | None | | | |
| 2.0.1.1.1.10.1 | Final Design Wide Gap MLA Magnets (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 07Apr09 02Jun09 | None | | None | | | 2.0.1.1.1.10.2[FF] |
| 2.0.1.1.1.10.2 | Prep Req & Award PO for MLA_W Parts (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 28Apr09 05Aug09 | None | | None | | 2.0.1.1.1.10.1[FF]; 2.10.9.5[FS] | 2.0.1.1.1.10.3[FF] |
| 2.0.1.1.1.10.3 | Receive & Inspect MLA_W Parts (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 12May09 15Oct09 | None | | None | | 2.0.1.1.1.10.2[FF] | |
| 2.0.1.1.1.10.4 | Fabricate & Assemble MLA_W Magnets (OBSOLETE) | Complete | 1d | 02Nov09 02Nov09 | 02Nov09 02Nov09 | None | | None | | | |
| 2.0.1.1.1.10.5 | Purchase 2 MLAW magnets from TD | Complete | 1d | 28Sep12 28Sep12 | 28Sep12 28Sep12 | None | | None | | 2.0.1.1.5.11[FF] | 2.0.4.3.21[FS] |
| 2.0.1.1.1.11 | Controls/Timing | Complete | 133d | 15Oct12 26Apr13 | 24May12 17Dec12 | None | | None | | | |
| 2.0.1.1.1.11.1 | Install IL Controls/Timing (incl Kicker) | Complete | 80d | 15Oct12 26Apr13 | 24May12 17Sep12 | None | | None | | 2.0.2.1.5.6[FS]; 2.10.10.11[FS+80d] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.11.2 | Install EL Controls/Timing (incl Kicker) | Complete | 80d | 15Oct12 26Apr13 | 23Aug12 17Dec12 | None | | None | | 2.0.2.1.5.7[FS]; 2.10.10.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.11.3 | Install BA Mods Controls/Timing | Complete | 10d | 15Oct12 14Dec12 | 26Jul12 08Aug12 | None | | None | | 2.0.2.1.3.6[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.12 | MGS Mirror Magnets | Complete | 131d | 01Jul11 11Jan12 | 18Jul11 09Jul12 | None | | None | | | |
| 2.0.1.1.1.12.1 | MSG Mirror Magnets Identify Accceptable Spare SGD Magnets & Purch Spare from SPS | Complete | 12d | 04Jan12 11Jan12 | 23Mar12 09Apr12 | None | | None | | | 1.0.1.1.2.1.9.1[FS]; 2.0.1.1.1.12.2[FS] |
| 2.0.1.1.1.12.2 | Measure MSG002 (OBSOLETE) | Complete | 1d | 17Nov11 17Nov11 | 09Jul12 09Jul12 | None | | None | | 2.0.1.1.1.12.1[FS] | 2.0.1.1.1.14.33.1.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.12.3 | Review MGS design and tooling | Complete | 5d | 01Jul11 08Jul11 | 18Jul11 22Jul11 | None | | None | | | 2.0.1.1.1.12.4[FS] |
| 2.0.1.1.1.12.4 | Modify tooling | Complete | 5d | 11Jul11 15Jul11 | 25Jul11 29Jul11 | None | | None | | 2.0.1.1.1.12.3[FS] | 2.0.1.1.1.12.5[FS] |
| 2.0.1.1.1.12.5 | Modify magnet | Complete | 5d | 18Jul11 31Aug11 | 01Aug11 05Aug11 | None | | None | | 2.0.1.1.1.12.4[FS] | 2.0.1.1.1.12.6[FS] |
| 2.0.1.1.1.12.6 | Measure magnet | Complete | 5d | 25Jul11 08Sep11 | 08Aug11 12Aug11 | None | | None | | 2.0.1.1.1.12.5[FS] | 2.0.1.1.1.14.4[FS] |
| 2.0.1.1.1.13 | Instrumentation & Cables | Complete | 540d | 01Feb10 22Mar12 | 08Mar10 31May12 | None | | None | | | |
| 2.0.1.1.1.13.1 | Procure IL Magnet Cables & Instrumentation Cables | Complete | 40d | 01Feb10 22Mar12 | 08Mar10 30Apr10 | None | | None | | 1.0.1.1.5.3[FS]; 1.0.1.1.6.5[FS]; 2.10.9.7[FS]; 2.10.9.5[FS] | 2.0.1.1.1.14.25[FS]; 2.0.1.1.1.3.5.10[FS] |
| 2.0.1.1.1.13.2 | Procure EL Magnet Cables & Instrumentation Cables | Complete | 40d | 01Feb10 22Mar12 | 08Mar10 30Apr10 | None | | None | | 1.0.1.1.6.5[FS]; 1.0.1.1.5.3[FS]; 2.10.9.7[FS]; 2.10.9.5[FS] | 2.0.1.1.1.14.10[FS]; 2.0.1.1.1.3.5.10[FS] |
| 2.0.1.1.1.13.3 | Procure Lambertson cables | Complete | 65d | 09Mar12 16Mar12 | 01Mar12 31May12 | None | | None | | 1.0.1.1.5.3[FS] | 2.0.1.1.1.14.30.5[FS] |
| 2.0.1.1.1.14 | Installation | In Progress | 846d | 01Mar10 10Jul13 | 08Mar10 07May13 | None | | None | | | |
| 2.0.1.1.1.14.2 | Intermediate IL Installation Planning | Complete | 120d | 01Mar10 16Apr12 | 08Mar10 24Aug10 | None | | None | | 2.10.9.5[FS]; 1.0.1.1.2.1.1.4.4[FS]; 1.0.1.1.6.5[FS]; 1.0.1.1.5.3[FS]; 2.10.9.7[FS] | 2.0.1.1.1.14.26[SS]; 2.0.1.1.1.14.3[FS]; 2.0.1.1.1.2.5[SS+10d] |
| 2.0.1.1.1.14.3 | Pre-Shutdown IL Installation Planning | Complete | 90d | 31May11 10Apr13 | 12Sep11 24Jan12 | None | | None | | 2.0.1.1.1.14.2[FS] | 2.0.1.1.1.9.5[SS]; 2.0.1.1.1.9.1[SS+10d] |
| 2.0.1.1.1.14.4 | Install IL Magnets (incl pre-align) (OBSOLETE) | Complete | 1d | 17Nov11 17Nov11 | 17Nov11 17Nov11 | None | | None | | 2.0.1.1.1.6.4[FS]; 2.0.1.1.1.8.3[FS]; 2.0.1.1.1.5.4[FS]; 2.0.1.1.1.3.4[FS]; 2.0.1.1.1.12.6[FS]; 1.0.1.1.1.4.2[FS]; 1.0.1.1.2.1.9[FF]; 1.0.1.1.1.3.2[FS]; 1.0.1.1.2.2.3.5[FS]; 1.0.1.1.1.3.3[FS] | 2.0.1.1.1.14.19[FS]; 2.0.1.1.1.14.25[FS] |
| 2.0.1.1.1.14.5 | Install IL Instrumentation (OBSOLETE) | Complete | 1d | 18Nov11 18Nov11 | 18Nov11 18Nov11 | None | | None | | 2.0.1.1.1.14.25[FF] | 2.0.1.3.2.2[FS] |
| 2.0.1.1.1.14.7 | Intermediate EL Installation Planning | Complete | 110d | 19Apr10 23Apr13 | 03May10 06Oct10 | None | | None | | 2.10.9.5[FS]; 1.0.1.1.6.5[FS]; 1.0.1.1.5.3[FS]; 2.10.9.7[FS] | 2.0.1.1.1.14.8[FS]; 2.0.1.1.1.14.27[SS]; 2.0.1.1.1.2.5[SS+10d] |
| 2.0.1.1.1.14.8 | Pre-Shutdown EL Installation Planning | Complete | 80d | 01Jul11 28Jun13 | 12Sep11 09Jan12 | None | | None | | 2.0.1.1.1.14.7[FS] | 2.0.1.1.1.9.2[SS+10d] |
| 2.0.1.1.1.14.9 | Install EL Magnets (incl pre-align) (OBSOLETE) | Complete | 1d | 17Nov11 17Nov11 | 17Nov11 17Nov11 | None | | None | | 1.0.1.1.2.1.9.1[FF]; 1.0.1.1.2.2.3.6[FS]; 1.0.1.1.1.4.2[FS]; 1.0.1.1.1.3.2[FS]; 2.0.1.1.1.4.5[FF+10d] | 2.0.1.1.1.14.10[FS] |
| 2.0.1.1.1.14.10 | Install & Test EL Instrumentation Cables (OBSOLETE) | Complete | 1d | 18Nov11 18Nov11 | 18Nov11 18Nov11 | None | | None | | 2.0.1.1.1.13.2[FS]; 2.0.1.1.1.14.9[FS] | 2.0.1.1.1.14.11[FF] |
| 2.0.1.1.1.14.11 | Install EL Instrumentation (OBSOLETE) | Complete | 1d | 18Nov11 18Nov11 | 18Nov11 18Nov11 | None | | None | | 2.0.1.1.1.14.10[FF] | 2.0.1.3.2.3[FS] |
| 2.0.1.1.1.14.13 | Intermediate RR-30 SS Installation Planning | Complete | 85d | 01Jun10 23Apr13 | 27Sep10 31Jan11 | None | | None | | 2.10.9.5[FS]; 1.0.1.1.6.5[FS]; 1.0.1.1.5.3[FS]; 2.10.9.7[FS] | 2.0.1.1.1.14.28[SS]; 2.0.1.1.1.14.14[FS]; 2.0.1.1.1.2.5[SS+10d]; 2.0.1.1.1.2.3[SS+10d] |
| 2.0.1.1.1.14.14 | Pre-Shutdown RR-30 SS Installation Planning | Complete | 65d | 01Sep11 24May13 | 12Sep11 13Dec11 | None | | None | | 2.0.1.1.1.14.13[FS] | 2.0.1.1.1.9.3[SS]; 2.0.1.1.1.9.4[FF] |
| 2.0.1.1.1.14.15 | Install RR-30 SS Magnets (incl pre-align) (OBSOLETE) | Complete | 1d | 07Nov11 07Nov11 | 07Nov11 07Nov11 | None | | None | | 1.0.1.1.2.2.3.7[FS]; 1.0.1.1.1.2[FS] | 2.0.1.1.1.14.19[FS]; 2.0.1.1.1.14.16[FS] |
| 2.0.1.1.1.14.16 | Install RR-30 SS Instrumentation (OBSOLETE) | Complete | 1d | 08Nov11 08Nov11 | 08Nov11 08Nov11 | None | | None | | 2.0.1.1.1.14.15[FS] | 2.0.1.1.1.14.19[FS] |
| 2.0.1.1.1.14.17 | Install BA Mods Kicker Magnet w/Stands, Pull RG220 Cables, Terminate Connections & Test (OBSOLETE) | Complete | 1d | 08Nov11 08Nov11 | 08Nov11 08Nov11 | None | | None | | 2.0.1.1.1.2.13[FS]; 1.0.1.1.2.2.3.8[FS] | 2.0.1.1.1.14.19[FS] |
| 2.0.1.1.1.14.18 | Install Temp Shielding & Remove Hot Components (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | | 1.0.2.1.2.1[FS]; 1.0.2.1.3.1[FS]; 1.0.2.1.2.2[FS]; 2.0.1.1.4.1.3[FS]; 2.0.1.1.4.1.4[FS]; 2.0.2.2.3.2[FS]; 2.0.1.1.4.2.3[FS]; 2.0.3.1.3.12[FS]; 2.0.2.2.4.5[FS]; 1.0.1.1.1.4.1[FS]; 2.0.1.1.4.4.3[FS]; 2.0.1.3.1.4[FS]; 2.0.1.1.4.3.3[FS]; 2.0.1.1.4.4.4[FS]; 1.0.1.1.1.1.1[FS]; 1.0.1.1.2.2.2.1[FS]; 1.0.1.1.1.3.1[FS]; 2.0.1.1.2.9[FS]; 1.0.1.1.2.1.7.1[FS]; 1.0.1.1.2.2.3.5[FS]; 2.0.1.1.4.3.5[FS]; 2.0.1.3.2.1.6.3[FS]; 2.0.1.3.2.1.6.1[FS] |
| 2.0.1.1.1.14.19 | Re-Install Components & Remove Temp Shielding (OBSOLETE) | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.4[FS]; 2.0.1.1.1.14.15[FS]; 2.0.1.1.1.14.17[FS]; 2.0.1.3.2.2[FS]; 2.0.1.3.2.3[FS]; 2.0.1.1.1.14.16[FS] | 2.0.1.1.1.14.22[FF]; 2.0.1.1.1.14.20[FF]; 2.0.1.1.1.14.21[FF]; 2.0.1.1.1.14.24[FF]; 2.0.1.2.5.2.12[FF] |
| 2.0.1.1.1.14.20 | Install IL Vacuum System (OBSOLETE) | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.19[FF] | 1.0.1.1.2.2.5.1[FS] |
| 2.0.1.1.1.14.21 | Install EL Vacuum System (OBSOLETE) | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.19[FF]; 2.0.1.3.2.3[FS] | 1.0.1.1.2.2.5.2[FS] |
| 2.0.1.1.1.14.22 | Install RR-30 SS Vacuum (OBSOLETE) | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.19[FF] | 1.0.1.1.2.2.5.3[FS] |
| 2.0.1.1.1.14.24 | Install BA Mods Vacuum (OBSOLETE) | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.19[FF] | 1.0.1.1.2.2.5.4[FS] |
| 2.0.1.1.1.14.25 | Install & Test IL Instrumentation Cables (OBSOLETE) | Complete | 1d | 18Nov11 18Nov11 | 18Nov11 18Nov11 | None | | None | | 2.0.1.1.1.13.1[FS]; 2.0.1.1.1.14.4[FS] | 2.0.1.1.1.14.5[FF] |
| 2.0.1.1.1.14.26 | Assemble IL magnet girders | Complete | 44d | 01Sep11 14May12 | 15Aug11 14Oct11 | None | | None | | 2.0.1.1.1.14.2[SS] | 2.0.1.1.1.14.30.1[FS] |
| 2.0.1.1.1.14.27 | Assemble EL magnet girders | Complete | 44d | 19Oct11 07Sep12 | 15Sep11 15Nov11 | None | | None | | 2.0.1.1.1.14.7[SS] | 2.0.1.1.1.14.33.2.1[SS] |
| 2.0.1.1.1.14.28 | Assemble RR30 magnet girders | Complete | 31d | 11Jan12 30Oct12 | 17Jan12 28Feb12 | None | | None | | 2.0.1.1.1.14.13[SS] | 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.1.14.29 | Staging Work | Complete | 293d | 01May12 28Jun13 | 01May12 07May13 | None | | None | | | |
| 2.0.1.1.1.14.29.1 | Install temporary shielding | Complete | 5d | 01Jun12 29Jun12 | 19Jul12 25Jul12 | None | | None | | 1.0.1.1.1.6.2[FS]; 2.10.10.5[FS] | 1.0.1.1.1.6.3[FS] |
| 2.0.1.1.1.14.29.2 | Remove temporary shielding | Complete | 5d | 24Jun13 28Jun13 | 02Apr13 08Apr13 | None | | None | | 2.0.1.1.1.14.37.3[FS]; 1.0.1.1.2.2.5.11[FS]; 1.0.1.1.2.2.5.8[FS]; 1.0.1.1.2.2.5.6[FS] | 2.0.4.3.15[FS]; 2.0.4.3.16[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.14.29.3 | MI-60 staging work | Complete | 200d | 01May12 29Mar13 | 01May12 18Feb13 | None | | None | | 2.10.10.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.29.4 | Clean up MI-60 | Complete | 15d | 01Nov12 28Jun13 | 17Apr13 07May13 | None | | None | | 2.0.4.3.16[FS] | 2.0.4.3.21[FS] |
| 2.0.1.1.1.14.30 | Injection Line Installation | Complete | 368d | 17Jan12 28Jun13 | 14May12 12Mar13 | None | | None | | | |
| 2.0.1.1.1.14.30.1 | Q845 - 849 | Complete | 10d | 17Jan12 16Jul12 | 02Jul12 16Jul12 | None | | None | | 2.10.10.5[FS+10d]; 2.0.1.1.1.14.26[FS] | 2.0.1.1.1.14.30.9[SS]; 2.0.1.1.1.14.30.2[FS] |
| 2.0.1.1.1.14.30.2 | Q850 - 853 | Complete | 10d | 27Jun12 16Jul12 | 14May12 25May12 | None | | None | | 2.0.1.1.1.14.30.1[FS] | 2.0.1.1.1.14.30.3[FS] |
| 2.0.1.1.1.14.30.3 | Q100 - 104 | Complete | 15d | 16Jul12 31Aug12 | 31Aug12 21Sep12 | None | | None | | 2.0.1.3.2.4.5[FS]; 2.0.1.3.2.6[FS]; 2.0.1.2.1.2.11[SS]; 2.0.1.1.1.14.30.2[FS]; 2.0.1.1.5.10[FS] | 1.0.1.1.2.2.5.5[FS] |
| 2.0.1.1.1.14.30.4 | Initial leak check Q845 - R109 | Complete | 4d | 14Jan13 01Feb13 | 10Jan13 15Jan13 | None | | None | | 1.0.1.1.2.2.5.5[FS] | 2.0.1.1.1.14.30.5[FS] |
| 2.0.1.1.1.14.30.5 | Cable pulls | Complete | 5d | 08Oct12 30Oct12 | 16Jan13 23Jan13 | None | | None | | 2.0.1.1.1.14.30.4[FS]; 2.0.1.1.1.13.3[FS] | 2.0.1.1.1.14.37.7[FS] |
| 2.0.1.1.1.14.30.6 | Final leak check | Complete | 5d | 06May13 14Jun13 | 21Feb13 27Feb13 | None | | None | | 1.0.1.1.2.2.5.6[FS] | 2.0.1.1.1.14.30.7[FS] |
| 2.0.1.1.1.14.30.7 | Bake 101 - 108 | Complete | 5d | 29Aug12 17Sep12 | 12Nov12 16Nov12 | None | | None | | 2.0.1.1.1.14.30.6[FS] | 2.0.1.1.1.14.30.8[FS] |
| 2.0.1.1.1.14.30.8 | Bake 641 - 635 | Complete | 5d | 01Oct12 15Oct12 | 06Mar13 12Mar13 | None | | None | | 2.0.1.1.1.14.30.7[FS] | 1.0.1.1.1.1.5[FS]; 1.0.1.1.1.3.4[FS]; 2.0.1.1.1.14.30.9[FF] |
| 2.0.1.1.1.14.30.9 | Engineering oversight | Complete | 124d | 18May12 28Jun13 | 01Jun12 27Nov12 | None | | None | | 2.0.1.1.1.14.30.1[SS]; 2.0.1.1.1.14.30.8[FF] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.31 | R20 and R30 Line Recovery | Complete | 104d | 18May12 15Oct12 | 15May12 18Jan13 | None | | None | | | |
| 2.0.1.1.1.14.31.1 | Remove R129 kicker | Complete | 5d | 18May12 22May12 | 15May12 21May12 | None | | None | | 1.0.1.1.1.1.4[FS] | 2.0.1.1.1.14.31.5[SS]; 1.0.1.1.2.2.5.7[FS]; 2.0.1.1.1.14.31.2[FS]; 1.0.1.1.1.4.4[FS] |
| 2.0.1.1.1.14.31.2 | Bake 125 - 202 | Complete | 10d | 16Jul12 30Jul12 | 07Jan13 18Jan13 | None | | None | | 2.0.1.1.1.14.31.1[FS]; 2.0.1.1.1.14.37.2[FS+5d] | 2.0.1.1.1.14.31.5[FF]; 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.31.3 | Bake R211 - 219 | Complete | 10d | 02Aug12 16Aug12 | 07Dec12 20Dec12 | None | | None | | 1.0.1.1.1.3.4[FS]; 1.0.1.1.1.1.5[FS] | 1.0.1.1.1.3.5[FS] |
| 2.0.1.1.1.14.31.4 | Bake R320 - 328 | Complete | 10d | 20Aug12 15Oct12 | 06Jun12 19Jun12 | None | | None | | 1.0.1.1.1.4.4[FS] | 1.0.1.1.1.4.5[FS]; 2.0.1.1.1.14.32.1[FS+10d] |
| 2.0.1.1.1.14.31.5 | Engineering oversight | Complete | 158d | 18May12 15Oct12 | 01Jun12 18Jan13 | None | | None | | 2.0.1.1.1.14.31.1[SS]; 2.0.1.1.1.14.31.2[FF] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.32 | Beam Abort Installation | Complete | 89d | 27Jul12 03Dec12 | 05Jul12 28Aug12 | None | | None | | | |
| 2.0.1.1.1.14.32.1 | Remove GCK from MI | Complete | 3d | 14Sep12 24Sep12 | 05Jul12 09Jul12 | None | | None | | 2.0.1.1.1.14.31.4[FS+10d] | 2.0.1.1.1.14.32.2[FS]; 2.0.1.1.1.14.32.9[SS] |
| 2.0.1.1.1.14.32.2 | Install GCK in RR | Complete | 7d | 27Jul12 24Sep12 | 10Jul12 18Jul12 | None | | None | | 2.0.1.1.1.14.32.1[FS]; 2.0.1.1.1.9.4[SS+30d] | 2.0.1.1.1.14.32.4[FS]; 2.0.1.1.1.14.32.3[FS] |
| 2.0.1.1.1.14.32.3 | Install RKD in recycler | Complete | 5d | 14Sep12 24Sep12 | 19Jul12 25Jul12 | None | | None | | 2.0.1.1.1.14.32.2[FS]; 2.0.1.2.5.2.14[SS]; 2.0.1.2.5.2.9[FS] | 2.0.1.1.1.14.32.6[FS]; 2.0.1.2.5.2.6[FS] |
| 2.0.1.1.1.14.32.4 | Install RKD spools in recycler | Complete | 1d | 14Sep12 24Sep12 | 19Jul12 19Jul12 | None | | None | | 2.0.1.1.1.14.32.2[FS] | 2.0.1.1.1.14.32.6[FS] |
| 2.0.1.1.1.14.32.5 | Cable pulls | Complete | 4d | 05Nov12 07Nov12 | 23Aug12 28Aug12 | None | | None | | 2.0.1.1.1.14.32.8[FS]; 2.0.1.2.5.2.6[FS] | 2.0.1.2.8.3[FS]; 2.0.1.1.1.14.32.9[FF]; 2.0.1.1.1.14.37.4[FS] |
| 2.0.1.1.1.14.32.6 | Leak check | Complete | 5d | 24Sep12 24Oct12 | 26Jul12 01Aug12 | None | | None | | 2.0.1.1.1.14.32.3[FS]; 2.0.1.1.1.14.32.4[FS] | 1.0.1.1.2.2.5.8[FS] |
| 2.0.1.1.1.14.32.7 | Bake R334 - 400 | Complete | 5d | 07Nov12 21Nov12 | 09Aug12 15Aug12 | None | | None | | 1.0.1.1.2.2.5.8[FS] | 2.0.1.1.1.14.32.8[FS] |
| 2.0.1.1.1.14.32.8 | Bake R401- 409 | Complete | 5d | 01Oct12 15Oct12 | 16Aug12 22Aug12 | None | | None | | 2.0.1.1.1.14.32.7[FS] | 2.0.1.1.1.14.32.5[FS] |
| 2.0.1.1.1.14.32.9 | Engineering oversight | Complete | 39d | 30Jul12 03Dec12 | 05Jul12 28Aug12 | None | | None | | 2.0.1.1.1.14.32.1[SS]; 2.0.1.1.1.14.32.5[FF] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.33 | RR30 and Extraction Line | In Progress | 169d | 02Nov12 10Jul13 | 07Sep12 13Feb13 | None | | None | | | |
| 2.0.1.1.1.14.33.1 | Ring Section | Complete | 163d | 02Nov12 28Jun13 | 07Sep12 13Feb13 | None | | None | | | |
| 2.0.1.1.1.14.33.1.1 | RR232 - 305 | Complete | 10d | 02Nov12 28Jun13 | 06Dec12 19Dec12 | None | | None | | 2.0.1.2.3.3.10[FS-20d]; 2.0.1.2.3.3.13[FS]; 2.0.1.1.1.9.3[FS]; 2.0.1.1.1.14.28[FS]; 2.0.1.1.1.9.2[FS]; 2.0.1.1.1.14.33.1.3[FS]; 2.0.1.1.1.12.2[FS]; 2.0.1.1.5.11[FS]; 2.0.1.1.1.9.5[FS] | 2.0.1.2.3.3.6[FS]; 2.0.1.1.1.14.33.1.4[FS] |
| 2.0.1.1.1.14.33.1.2 | RR305 - 309 | Complete | 10d | 18Feb13 27Mar13 | 07Sep12 20Sep12 | None | | None | | 1.0.1.1.1.6.5[FS-5d] | 2.0.1.1.1.14.33.1.7[SS]; 2.0.1.1.1.14.33.1.3[SS] |
| 2.0.1.1.1.14.33.1.3 | RR309 - 310 | Complete | 5d | 07Jan13 31May13 | 21Sep12 27Sep12 | None | | None | | 2.0.1.1.1.14.33.1.2[SS] | 1.0.1.1.2.2.5.10[FS]; 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.1.14.33.1.4 | Initial leak check | Complete | 5d | 14Dec12 29Mar13 | 20Dec12 28Dec12 | None | | None | | 2.0.1.2.3.3.6[SS]; 2.0.1.1.1.14.33.1.1[FS] | 2.0.1.1.1.14.33.2.5[FS] |
| 2.0.1.1.1.14.33.1.5 | Final leak check | Complete | 5d | 20May13 18Jun13 | 24Jan13 30Jan13 | None | | None | | 1.0.1.1.2.2.5.11[FS] | 2.0.1.1.1.14.33.1.6[FS] |
| 2.0.1.1.1.14.33.1.6 | Bake RR232 - RR309 | Complete | 10d | 29Apr13 17May13 | 31Jan13 13Feb13 | None | | None | | 2.0.1.1.1.14.33.1.5[FS]; 2.0.1.1.1.14.33.2.6[FS] | 2.0.1.1.1.14.33.1.7[FF]; 2.0.1.1.1.14.37.3[FS] |
| 2.0.1.1.1.14.33.1.7 | Engineering oversight | Complete | 54d | 01Feb13 28Jun13 | 07Sep12 13Feb13 | None | | None | | 2.0.1.1.1.14.33.1.6[FF]; 2.0.1.1.1.14.33.1.2[SS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.33.2 | Extraction Line | In Progress | 169d | 02Nov12 10Jul13 | 05Oct12 30Jan13 | None | | None | | | |
| 2.0.1.1.1.14.33.2.1 | RR701 - 702 | Complete | 10d | 02Nov12 31May13 | 05Oct12 18Oct12 | None | | None | | 2.0.1.1.1.14.27[SS] | 2.0.1.1.1.14.33.2.2[FS]; 2.0.1.1.1.14.33.2.7[SS] |
| 2.0.1.1.1.14.33.2.2 | RR703 - 704 | Complete | 10d | 18Feb13 27Mar13 | 19Oct12 01Nov12 | None | | None | | 2.0.1.1.1.14.33.2.1[FS] | 2.0.1.1.1.14.33.2.3[FS] |
| 2.0.1.1.1.14.33.2.3 | RR705 - Q307 | Complete | 5d | 18Feb13 28Feb13 | 02Nov12 08Nov12 | None | | None | | 2.0.1.2.3.3.9[SS+20d]; 2.0.1.2.5.2.14[SS]; 2.0.1.1.1.14.33.2.2[FS]; 1.0.2.1.2.5[FS] | 2.0.1.1.1.14.33.2.4[FS] |
| 2.0.1.1.1.14.33.2.4 | Initial leak check | Complete | 5d | 14Dec12 28Jun13 | 09Nov12 15Nov12 | None | | None | | 2.0.1.1.1.14.33.2.3[FS] | 2.0.1.1.1.14.33.2.5[FS] |
| 2.0.1.1.1.14.33.2.5 | Cable pulls | Complete | 10d | 26Nov12 29Apr13 | 02Jan13 15Jan13 | None | | None | | 2.0.1.1.1.14.33.1.4[FS]; 2.0.1.1.1.14.33.2.4[FS] | 2.0.1.2.8.2[FS]; 1.0.1.1.2.2.5.11[FS] |
| 2.0.1.1.1.14.33.2.6 | Final leak check | Planned | 5d | 02Jul13 09Jul13 | 24Jan13 30Jan13 | None | | None | | 1.0.1.1.2.2.5.11[FS] | 2.0.1.1.1.14.33.2.7[FF]; 2.0.1.1.1.14.33.1.6[FS] |
| 2.0.1.1.1.14.33.2.7 | Engineering oversight | Complete | 39d | 01Feb13 28Jun13 | 05Oct12 30Jan13 | None | | None | | 2.0.1.1.1.14.33.2.6[FF]; 2.0.1.1.1.14.33.2.1[SS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.34 | Recycler End Shim Replacements | Complete | 127d | 25Sep12 29Mar13 | 08Aug12 12Dec12 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.14.34.1 | RR10 End Shims | Complete | 15d | 01Oct12 29Mar13 | 08Aug12 28Aug12 | None | | None | | 2.10.10.5[SS+70d] | 2.0.1.1.1.14.34.2[FS]; 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.34.2 | RR20 End Shims | Complete | 10d | 01Oct12 29Mar13 | 29Aug12 12Sep12 | None | | None | | 2.0.1.1.1.14.34.1[FS] | 2.0.1.1.1.14.34.3[FS]; 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.34.3 | RR30 End Shims | Complete | 10d | 01Oct12 29Mar13 | 09Oct12 22Oct12 | None | | None | | 2.0.1.1.1.14.34.2[FS] | 2.0.4.3.16[FS]; 2.0.1.1.1.14.34.4[FS] |
| 2.0.1.1.1.14.34.4 | RR40 Shims | Complete | 15d | 01Oct12 29Mar13 | 23Oct12 12Nov12 | None | | None | | 2.0.1.1.1.14.34.3[FS] | 2.0.4.3.16[FS]; 2.0.1.1.1.14.34.5[FS] |
| 2.0.1.1.1.14.34.5 | RR50 End Shims | Complete | 10d | 25Sep12 28Sep12 | 13Nov12 28Nov12 | None | | None | | 2.0.1.1.1.14.34.4[FS] | 2.0.1.1.1.14.34.6[FS]; 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.34.6 | RR60 Shims | Complete | 10d | 28Sep12 29Mar13 | 29Nov12 12Dec12 | None | | None | | 2.0.1.1.1.14.34.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.35 | RR RF | Complete | 134d | 03Dec12 14Jun13 | 09Nov12 09Jan13 | None | | None | | | |
| 2.0.1.1.1.14.35.1 | Install broadband cavities at RR | Complete | 5d | 18Feb13 28Feb13 | 09Nov12 15Nov12 | None | | None | | 1.0.1.1.1.5[FS]; 2.0.2.2.3.8[FS] | 2.0.1.1.1.14.35.8[SS]; 2.0.1.1.1.14.35.2[FS]; 2.0.1.3.3.1.3[SS] |
| 2.0.1.1.1.14.35.2 | Prep for installation | Complete | 5d | 03Dec12 15Mar13 | 16Nov12 26Nov12 | None | | None | | 1.0.1.1.3.2.3[SS+70d]; 2.0.1.1.1.14.35.1[FS] | 2.0.1.1.1.14.35.3[FS] |
| 2.0.1.1.1.14.35.3 | Install cavity 1 | Complete | 5d | 15Mar13 24May13 | 27Nov12 03Dec12 | None | | None | | 2.0.1.1.1.14.35.2[FS] | 2.0.1.1.1.14.35.4[FS] |
| 2.0.1.1.1.14.35.4 | Install cavity 2 | Complete | 5d | 19Apr13 24May13 | 04Dec12 10Dec12 | None | | None | | 2.0.1.1.1.14.35.3[FS] | 2.0.1.1.1.14.35.5[FS] |
| 2.0.1.1.1.14.35.5 | Install cavity 3 (or spool piece) | Complete | 5d | 20May13 21May13 | 11Dec12 17Dec12 | None | | None | | 2.0.1.1.1.14.35.4[FS] | 2.0.1.2.8.4[FS]; 2.0.1.1.1.14.35.6[FS] |
| 2.0.1.1.1.14.35.6 | Reconstitute RR RF vacuum | Complete | 10d | 13May13 31May13 | 18Dec12 04Jan13 | None | | None | | 2.0.1.1.1.14.35.5[FS] | 2.0.1.1.1.14.35.7[FS]; 2.0.1.1.5.1[FS] |
| 2.0.1.1.1.14.35.7 | Reconstitute MI vacuum | Complete | 3d | 12Jun13 14Jun13 | 07Jan13 09Jan13 | None | | None | | 2.0.1.1.1.14.35.6[FS] | 1.0.1.1.2.2.5.9[FS]; 2.0.1.1.1.14.35.8[FF] |
| 2.0.1.1.1.14.35.8 | Engineering oversight | Complete | 37d | 07Jan13 14Jun13 | 09Nov12 09Jan13 | None | | None | | 2.0.1.1.1.14.35.1[SS]; 2.0.1.1.1.14.35.7[FF] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.36 | MI 60 Pipefitting | Complete | 27d | 21May12 27Jun12 | 30May12 03Jul12 | None | | None | | | |
| 2.0.1.1.1.14.36.1 | Install Piping for RR | Complete | 15d | 21May12 27Jun12 | 30May12 19Jun12 | None | | None | | 1.0.2.1.3.4[FS] | 2.0.1.1.4.4.5[SS]; 2.0.1.1.1.14.36.2[FS] |
| 2.0.1.1.1.14.36.2 | Install Piping for MI | Complete | 10d | 21May12 27Jun12 | 20Jun12 03Jul12 | None | | None | | 2.0.2.2.4.4[FF-5d]; 2.0.1.1.1.14.36.1[FS] | 2.0.2.2.3.6[FS]; 2.0.2.2.3.9[FS] |
| 2.0.1.1.1.14.37 | Sextapole and BPM Cable Pulls | Complete | 146d | 18May12 14Dec12 | 22May12 06Mar13 | None | | None | | | |
| 2.0.1.1.1.14.37.1 | R10 | Complete | 15d | 15Jun12 20Jun12 | 15Oct12 02Nov12 | None | | None | | 2.0.1.1.1.14.37.7[FS-10d] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.37.2 | R20 | Complete | 15d | 27Jul12 04Sep12 | 04Dec12 26Dec12 | None | | None | | 2.10.10.5[FS+150d] | 2.0.4.3.16[FS]; 2.0.1.1.1.14.31.2[FS+5d] |
| 2.0.1.1.1.14.37.3 | R30 and Extraction | Complete | 10d | 20Aug12 14Dec12 | 14Feb13 27Feb13 | None | | None | | 2.0.1.1.1.14.33.1.6[FS] | 2.0.1.1.1.14.29.2[FS]; 2.0.1.1.1.14.37.8[FF] |
| 2.0.1.1.1.14.37.4 | R40 | Complete | 15d | 29May12 13Jun12 | 15Oct12 02Nov12 | None | | None | | 2.0.1.1.1.14.32.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.37.5 | R50 | Complete | 15d | 18May12 06Jun12 | 22May12 12Jun12 | None | | None | | 2.10.10.5[FS+15d]; 2.0.1.3.1.5[SS+20d] | 2.0.4.3.16[FS]; 2.0.1.1.1.14.37.8[SS] |
| 2.0.1.1.1.14.37.6 | R60 | Complete | 10d | 01Oct12 23Nov12 | 21Feb13 06Mar13 | None | | None | | 1.0.1.1.2.2.5.9[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.37.7 | Injection line | Complete | 15d | 24Sep12 26Sep12 | 24Jan13 13Feb13 | None | | None | | 2.0.1.1.1.14.30.5[FS] | 2.0.1.1.1.14.37.1[FS-10d]; 1.0.1.1.2.2.5.6[FS] |
| 2.0.1.1.1.14.37.8 | Engineering oversight | Complete | 192d | 18May12 14Dec12 | 22May12 27Feb13 | None | | None | | 2.0.1.1.1.14.37.5[SS]; 2.0.1.1.1.14.37.3[FF] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.38 | DCCT Installation | Complete | 161d | 26Sep12 17May13 | 14Sep12 11Oct12 | None | | None | | | |
| 2.0.1.1.1.14.38.1 | Install DCCT at RR 620 | Complete | 5d | 14Jan13 27Mar13 | 14Sep12 20Sep12 | None | | None | | 2.0.1.3.4.3[FS]; 2.10.10.5[FS+95d] | 2.0.1.1.1.14.38.2[FS]; 2.0.1.1.1.14.38.4[SS] |
| 2.0.1.1.1.14.38.2 | Cable pulls | Complete | 5d | 26Sep12 18Oct12 | 21Sep12 27Sep12 | None | | None | | 2.0.1.1.1.14.38.1[FS] | 2.0.1.1.1.14.38.3[FS] |
| 2.0.1.1.1.14.38.3 | Bake 619 - 627 | Complete | 10d | 27Mar13 17May13 | 28Sep12 11Oct12 | None | | None | | 2.0.1.1.1.14.38.2[FS] | 2.0.1.1.1.14.38.4[FF]; 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.38.4 | Engineering oversight | Complete | 20d | 26Sep12 27Mar13 | 14Sep12 11Oct12 | None | | None | | 2.0.1.1.1.14.38.3[FF]; 2.0.1.1.1.14.38.1[SS] | 2.0.4.3.16[FS] |
| 2.0.1.1.1.14.39 | Service Building Work | Complete | 327d | 14Mar12 28Jun13 | 01May12 23Aug12 | None | | None | | | |
| 2.0.1.1.1.14.39.1 | MI10 | Complete | 238d | 15Mar12 25Feb13 | 01May12 21May12 | None | | None | | | |
| 2.0.1.1.1.14.39.1.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 25Feb13 | 01May12 07May12 | None | | None | | 2.10.10.5[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.2.1[FS] |
| 2.0.1.1.1.14.39.1.2 | Relocate correction-element power supplies | Complete | 9d | 15Mar12 20Nov12 | 01May12 11May12 | None | | None | | 2.10.10.5[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.1.3[FS] |
| 2.0.1.1.1.14.39.1.3 | Reconfigure sextupole loop | Complete | 6d | 15Jun12 20Nov12 | 14May12 21May12 | None | | None | | 2.0.1.1.1.14.39.1.2[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.2.2[FS] |
| 2.0.1.1.1.14.39.2 | MI20 | Complete | 238d | 15Mar12 25Feb13 | 08May12 12Jun12 | None | | None | | | |
| 2.0.1.1.1.14.39.2.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 25Feb13 | 08May12 14May12 | None | | None | | 2.0.1.1.1.14.39.1.1[FS]; 2.10.10.5[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.3.1[FS] |
| 2.0.1.1.1.14.39.2.2 | Relocate correction-element power supplies | Complete | 9d | 15Mar12 20Nov12 | 22May12 04Jun12 | None | | None | | 2.0.1.1.1.14.39.1.3[FS]; 2.10.10.5[FS] | 2.0.1.1.1.14.39.2.3[FS]; 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.2.3 | Reconfigure sextupole loop | Complete | 6d | 15Jun12 20Nov12 | 05Jun12 12Jun12 | None | | None | | 2.0.1.1.1.14.39.2.2[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.3.2[FS] |
| 2.0.1.1.1.14.39.3 | MI30 | Complete | 298d | 14Mar12 17May13 | 01May12 03Aug12 | None | | None | | | |
| 2.0.1.1.1.14.39.3.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 25Feb13 | 15May12 21May12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.2.1[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.4.1[FS] |
| 2.0.1.1.1.14.39.3.2 | Relocate correction-element power supplies | Complete | 9d | 15Mar12 15May13 | 13Jun12 25Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.2.3[FS] | 2.0.1.1.1.14.39.4.2[FS]; 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.3.3 | Remove VDPA supplies | Complete | 1d | 14Mar12 14Mar12 | 01May12 01May12 | None | | None | | 2.10.10.5[FS] | 2.10.10.6[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.1.14.39.3.4 | Remove old PFLs and kicker supplies | Complete | 1d | 15Mar12 15Mar12 | 01May12 01May12 | None | | None | | 2.10.10.5[FS] | 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.3.5 | Install and checkout kicker PS MI30 | Complete | 10d | 20Nov12 17May13 | 23Jul12 03Aug12 | None | | None | | 2.0.1.1.1.14.39.7.5[FS] | 2.0.1.1.1.14.39.4.4[FS] |
| 2.0.1.1.1.14.39.4 | MI40 | Complete | 326d | 15Mar12 28Jun13 | 22May12 17Aug12 | None | | None | | | |
| 2.0.1.1.1.14.39.4.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 25Feb13 | 22May12 29May12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.3.1[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.5.1[FS] |
| 2.0.1.1.1.14.39.4.2 | Relocate correction-element power supplies | Complete | 9d | 23Jul12 20Nov12 | 26Jun12 09Jul12 | None | | None | | 2.0.1.1.1.14.39.3.2[FS]; 2.10.10.5[FS] | 2.0.1.1.1.14.39.5.2[FS]; 2.10.10.6[FS]; 2.0.1.1.1.14.39.4.3[FS] |
| 2.0.1.1.1.14.39.4.3 | Reconfigure sextupole loop | Complete | 6d | 23Jul12 25Feb13 | 10Jul12 17Jul12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.4.2[FS] | 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.4.4 | Install and checkout kicker PS MI39 | Complete | 10d | 17Dec12 28Jun13 | 06Aug12 17Aug12 | None | | None | | 2.0.1.1.1.14.39.3.5[FS] | 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.5 | MI50 | Complete | 259d | 15Mar12 26Mar13 | 30May12 30Jul12 | None | | None | | | |
| 2.0.1.1.1.14.39.5.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 25Feb13 | 30May12 05Jun12 | None | | None | | 2.0.1.1.1.14.39.4.1[FS]; 2.10.10.5[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.6.1[FS] |
| 2.0.1.1.1.14.39.5.2 | Relocate correction-element power supplies | Complete | 9d | 15Jun12 26Mar13 | 10Jul12 20Jul12 | None | | None | | 2.0.1.1.1.14.39.4.2[FS]; 2.10.10.5[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.5.3[FS] |
| 2.0.1.1.1.14.39.5.3 | Reconfigure sextupole loop | Complete | 6d | 15Jun12 25Feb13 | 23Jul12 30Jul12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.5.2[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.6.2[FS] |
| 2.0.1.1.1.14.39.6 | MI60 | Complete | 274d | 15Mar12 16Apr13 | 06Jun12 10Aug12 | None | | None | | | |
| 2.0.1.1.1.14.39.6.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Mar12 15Apr13 | 06Jun12 12Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.5.1[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.7.1[FS] |
| 2.0.1.1.1.14.39.6.2 | Relocate correction-element power supplies | Complete | 9d | 04Sep12 16Apr13 | 31Jul12 10Aug12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.5.3[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.7.4[FS] |
| 2.0.1.1.1.14.39.7 | MI14 | Complete | 237d | 15Jun12 24May13 | 13Jun12 23Aug12 | None | | None | | | |
| 2.0.1.1.1.14.39.7.1 | BPM hardware (Crates Interfaces Cabling Boards) | Complete | 5d | 15Jun12 15Apr13 | 13Jun12 19Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.6.1[FS] | 2.0.1.1.1.14.39.7.2[FS]; 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.7.2 | Toroid hardware | Complete | 1d | 15Jun12 24May13 | 20Jun12 20Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.1.14.39.7.1[FS] | 2.10.10.6[FS]; 2.0.1.1.1.14.39.7.3[FS] |
| 2.0.1.1.1.14.39.7.3 | Multwire hardware | Complete | 5d | 15Jun12 24May13 | 21Jun12 27Jun12 | None | | None | | 2.0.1.1.1.14.39.7.2[FS]; 2.10.10.5[FS] | 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.7.4 | Relocate correction-element power supplies | Complete | 9d | 10Oct12 25Feb13 | 13Aug12 23Aug12 | None | | None | | 2.0.1.1.1.14.39.6.2[FS]; 2.10.10.5[FS] | 2.10.10.6[FS] |
| 2.0.1.1.1.14.39.7.5 | Install and checkout kicker PS MI14 | Complete | 25d | 15Jun12 25Feb13 | 15Jun12 20Jul12 | None | | None | | 2.10.10.5[FS+32d] | 2.0.1.1.1.14.39.3.5[FS] |
| 2.0.1.1.2 | RR 53 Mhz System | Complete | 921d | 01Jun09 31Jan13 | 24Nov09 31Jan13 | None | | None | | | |
| 2.0.1.1.2.1 | Final Design 53 Mhz RF System | Complete | 150d | 02Feb10 31Jan13 | 24Nov09 27Jan10 | None | | None | | 1.0.1.1.5.1[FS] | 2.0.1.1.2.8[FS]; 1.0.1.1.3.2.3[FS] |
| 2.0.1.1.2.2 | RR Prep Req & Award PO for 53 Mhz RF System Copper | Complete | 40d | 01Jun09 05Jan12 | 04Mar10 28Apr10 | None | | None | | 1.0.1.1.5.2[FS]; 1.0.1.1.6.3[FS]; 2.10.9.5[FS] | 2.0.1.1.2.3[FS]; 2.0.1.1.5.3[FS] |
| 2.0.1.1.2.3 | RR Receive 53 Mhz RF System Copper | Complete | 90d | 15Dec09 05Jan12 | 22Feb10 28Jun10 | None | | None | | 2.0.1.1.2.2[FS] | 2.0.1.1.2.8[FS]; 1.0.1.1.3.2.3[FS+60d] |
| 2.0.1.1.2.4 | RR Procure 53 Mhz Flanges | Complete | 57d | 02Feb10 26Feb10 | 29Jan10 19Apr10 | None | | None | | 1.0.1.1.5.2[FS]; 2.10.9.5[FS]; 1.0.1.1.6.3[FS] | 2.0.1.1.2.8[FS] |
| 2.0.1.1.2.5 | RR Procure 53 Mhz Tetrodes | Complete | 57d | 02Feb10 26Feb10 | 29Jan10 19Apr10 | None | | None | | 1.0.1.1.6.3[FS]; 1.0.1.1.5.2[FS]; 2.10.9.5[FS] | 2.0.1.1.2.8[FS] |
| 2.0.1.1.2.6 | RR Procure 53 Mhz Ceramics | Complete | 118d | 02Feb10 15Dec11 | 29Jan10 15Jul10 | None | | None | | 1.0.1.1.6.3[FS]; 2.10.9.5[FS]; 1.0.1.1.5.2[FS] | 2.0.1.1.2.8[FS]; 1.0.1.1.3.2.3[FS+60d] |
| 2.0.1.1.2.7 | RR Procure 53 Mhz Misc Material | Complete | 118d | 02Feb10 31Jan13 | 29Jan10 15Jul10 | None | | None | | 1.0.1.1.5.2[FS]; 1.0.1.1.6.3[FS]; 2.10.9.5[FS] | 2.0.1.1.2.8[FS-21d] |
| 2.0.1.1.2.8 | RR Fabricate 53 Mhz RF System | Complete | 210d | 02Feb10 31Jan13 | 02Feb10 30Sep11 | None | | None | | 2.0.1.1.2.14[FF+40d]; 2.0.1.1.2.3[FS]; 2.0.1.1.2.4[FS]; 2.0.1.1.2.5[FS]; 2.0.1.1.2.16[FS]; 2.0.1.1.2.7[FS-21d]; 2.0.1.1.5.3[FS]; 2.0.1.1.2.1[FS]; 2.0.1.1.2.6[FS] | 2.0.1.1.2.17[FS]; 1.0.1.1.3.2.3[SS+60d] |
| 2.0.1.1.2.9 | RR Install 53 Mhz RF System (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 2.0.1.1.2.10[FS] |
| 2.0.1.1.2.10 | RR Reconsitute 53 Mhz RF System Vacuum (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 2.0.1.1.2.9[FS] | |
| 2.0.1.1.2.11 | Prep req and award PO for additional copper tube | Complete | 30d | 20Jun11 03Oct11 | 20Jun11 01Aug11 | None | | None | | | 2.0.1.1.2.13[FS+80d]; 2.0.1.1.2.12[FS+90d] |
| 2.0.1.1.2.12 | Receive additional copper | Complete | 1d | 29Dec11 29Dec11 | 09Dec11 09Dec11 | None | | None | | 2.0.1.1.2.11[FS+90d] | 2.0.1.1.2.13[FF]; 2.0.1.1.2.14[FS+20d]; 2.0.1.1.2.15[FS] |
| 2.0.1.1.2.13 | Prep req and award PO for additional machining | Complete | 2d | 17Jan12 01Feb12 | 23Nov11 22Dec11 | None | | None | | 2.0.1.1.2.12[FF]; 2.0.1.1.2.11[FS+80d] | 2.0.1.1.2.14[FS+85d] |
| 2.0.1.1.2.14 | Receive additional machined copper | Complete | 5d | 01Jun12 07Jun12 | 01Jun12 07Jun12 | None | | None | | 2.0.1.1.2.12[FS+20d]; 2.0.1.1.2.13[FS+85d] | 2.0.1.1.2.8[FF+40d] |
| 2.0.1.1.2.15 | Prep req and award PO for copper for ring flanges | Complete | 2d | 01Mar12 02Mar12 | 01Mar12 02Mar12 | None | | None | | 2.0.1.1.2.12[FS] | 2.0.1.1.2.16[FS] |
| 2.0.1.1.2.16 | Receive copper for ring flanges | Complete | 3d | 05Mar12 07Mar12 | 05Mar12 07Mar12 | None | | None | | 2.0.1.1.2.15[FS] | 2.0.1.1.2.8[FS] |
| 2.0.1.1.2.17 | Remove RF cavity 3 scope and budget | Complete | 1d | 31Jan13 31Jan13 | 31Jan13 31Jan13 | None | | None | | 2.0.1.1.2.8[FS] | |
| 2.0.1.1.3 | Ovesight to TD Magnet Modifications | Complete | 825d | 02Feb09 10May12 | 02Feb09 10May12 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.3.1 | FY09 Oversight of TD Magnet Construction - RR Mods Beamlines | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.0.4.3.16[FS]; 2.0.1.1.3.2[FS] |
| 2.0.1.1.3.2 | FY10 Oversight of TD Magnet Construction - RR Mods Beamlines | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | None | | None | | 2.0.1.1.3.1[FS] | 2.0.4.3.16[FS]; 2.0.1.1.3.3[FS] |
| 2.0.1.1.3.3 | FY11 & FY12 Oversight of TD Magnet Construction - RR Mods Beamlines | Complete | 404d | 01Oct10 10May12 | 01Oct10 10May12 | None | | None | | 2.0.1.1.3.2[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.4 | Recycler Ring Cooling System Modifications | Complete | 614d | 24Jan11 28Jun13 | 18Jan11 07Mar13 | None | | None | | | |
| 2.0.1.1.4.1 | Injection Line Water System Mods Installation | Complete | 376d | 02May11 25Oct12 | 23Jun11 29Aug12 | None | | None | | | |
| 2.0.1.1.4.1.1 | Finial Design IL Water Systems | Complete | 40d | 02May11 31Oct11 | 23Jun11 18Aug11 | None | | None | | 1.0.1.1.4.2.1[FS]; 1.0.1.1.4.2.2[FS]; 1.0.1.1.4.2.3[FS]; 1.0.1.1.4.2.4[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.1.2 | Procurement & Fab of Piping Components | Complete | 160d | 22Nov11 18Jul12 | 07Dec11 26Jul12 | None | | None | | 2.10.9.6[FS+180d]; 2.0.1.1.4.6.5[FS] | 2.0.1.1.4.1.5[FS] |
| 2.0.1.1.4.1.3 | Relocate Piping & Bus Work, Q-100 Area (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.1.4 | Install Piping to MI-14 (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.1.5 | Connect Power Supplies & Flourinert Skids in MI-14 | Complete | 4d | 23Apr12 18Jul12 | 20Aug12 23Aug12 | None | | None | | 2.0.1.1.4.1.2[FS] | 2.0.1.1.4.1.6[FS] |
| 2.0.1.1.4.1.6 | Test & Troubleshoot MI-14 Water System | Complete | 4d | 16Jul12 25Oct12 | 24Aug12 29Aug12 | None | | None | | 2.0.1.1.4.1.5[FS] | 2.0.1.1.5.5[FS] |
| 2.0.1.1.4.2 | Extraction Line Water System Mods Installation | Complete | 502d | 02May11 30Apr13 | 23Jun11 27Aug12 | None | | None | | | |
| 2.0.1.1.4.2.1 | Final Design EL Water Systems | Complete | 40d | 02May11 31Oct11 | 23Jun11 18Aug11 | None | | None | | 1.0.1.1.4.3.2[FS]; 1.0.1.1.4.3.1[FS]; 1.0.1.1.4.3.3[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.2.2 | Procure Piping Components | Complete | 160d | 22Nov11 01May12 | 07Dec11 26Jul12 | None | | None | | 2.10.9.6[FS+180d] | 2.0.1.1.4.2.4[FS] |
| 2.0.1.1.4.2.3 | Complete Q300 Area Pipe & Bus Relocation Work (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.2.4 | Connect Power Supplies & Flourinert Skids in MI-30 | Complete | 4d | 23Jan12 09Mar12 | 22Jun12 27Jun12 | None | | None | | 2.0.1.1.4.2.2[FS]; 2.10.10.5[FS] | 2.0.1.1.4.2.5[FS]; 2.0.1.1.4.2.6[FF] |
| 2.0.1.1.4.2.5 | Test & Troubleshoot MI-30 Water System | Complete | 4d | 16Jul12 30Apr13 | 16Aug12 21Aug12 | None | | None | | 2.0.1.1.4.2.4[FS]; 2.0.1.1.4.2.6[FS] | 2.0.1.1.5.5[FS] |
| 2.0.1.1.4.2.6 | Install piping from manifolds to kickers | Complete | 20d | 02Apr12 18Apr12 | 31Jul12 27Aug12 | None | | None | | 2.0.1.1.4.2.4[FF] | 2.0.1.1.4.2.5[FS] |
| 2.0.1.1.4.3 | Abort Line Water System Mods Installation | Complete | 326d | 02May11 15Aug12 | 23Jun11 10May12 | None | | None | | | |
| 2.0.1.1.4.3.1 | Final Design RR Abort Water System | Complete | 40d | 02May11 30Jun11 | 23Jun11 18Aug11 | None | | None | | 1.0.1.1.4.4.1[FS]; 1.0.1.1.4.4.2[FS]; 1.0.1.1.4.4.3[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.3.2 | Procure Piping Components | Complete | 160d | 01Jun11 30Jun11 | 12Sep11 01May12 | None | | None | | 2.0.1.1.4.6.5[FS] | 2.0.1.1.4.3.5[FS]; 2.0.1.1.4.3.4[FS] |
| 2.0.1.1.4.3.3 | Complete Q403 Area Pipe & Bus Relocation Work (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.3.4 | Connect Power Supplies & Flourinert Skids in MI-39 | Complete | 4d | 03Oct11 03Oct11 | 02May12 07May12 | None | | None | | 2.0.1.1.4.3.2[FS] | 2.0.1.1.4.3.6[FS] |
| 2.0.1.1.4.3.5 | Install Piping to MI-39 (OBSOLETE) | Complete | 7d | 03Oct11 03Oct11 | 02May12 10May12 | None | | None | | 2.0.1.1.4.3.2[FS]; 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.3.6 | Test & Troubleshoot MI-40 & MI-39 Water Systems | Complete | 4d | 16Jul12 15Aug12 | 01May12 04May12 | None | | None | | 2.0.1.1.4.3.4[FS]; 2.10.10.5[FS] | 2.0.1.1.5.5[FS] |
| 2.0.1.1.4.4 | Install RF Cavity Water System Mods | Complete | 511d | 02May11 13May13 | 23Jun11 27Sep12 | None | | None | | | |
| 2.0.1.1.4.4.1 | Final Design RR RF Cavities Water Cooling | Complete | 40d | 02May11 14May12 | 23Jun11 18Aug11 | None | | None | | 1.0.1.1.4.5.3[FS]; 1.0.1.1.4.5.1[FS]; 1.0.1.1.4.5.2[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.4.2 | Procure Piping Components | Complete | 160d | 22Nov11 30May12 | 07Dec11 26Jul12 | None | | None | | 2.0.1.1.4.6.5[FS] | 2.0.1.1.4.4.5[FS] |
| 2.0.1.1.4.4.3 | Complete Q600 Area Cavity & Magnet Relocation Work (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.4.4 | Install Piping Drops for RF Cavities Q600 Region (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.1.4.4.5 | Install Piping Drops for RF Power Supplies MI-60 Gallery | Complete | 19d | 01Apr13 13May13 | 20Aug12 14Sep12 | None | | None | | 2.0.1.1.1.14.36.1[SS]; 2.0.1.1.4.4.2[FS] | 2.0.1.1.4.4.6[FS] |
| 2.0.1.1.4.4.6 | Test & Troubleshoot RF Cavity Water System | Complete | 9d | 16Jul12 05Oct12 | 17Sep12 27Sep12 | None | | None | | 2.0.1.1.4.4.5[FS] | 2.0.1.1.5.5[FS] |
| 2.0.1.1.4.5 | Install MI-8 Pump Room LCW System | Complete | 614d | 24Jan11 28Jun13 | 18Jan11 07Mar13 | None | | None | | | |
| 2.0.1.1.4.5.1 | Final Design MI8 Pump Rm Water System Mods | Complete | 40d | 02May11 20Apr12 | 23Jun11 18Aug11 | None | | None | | 2.0.1.1.4.6.2[FS]; 1.0.1.1.4.6.1[FS]; 1.0.1.1.4.6.4[FS]; 2.0.1.1.4.5.19[FS]; 2.0.1.1.4.6.4[FS]; 2.0.1.1.4.6.1[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.5.2 | Relocate Horn Welder Machine (OBSOLETE) | Complete | 1d | 01Jun11 01Jun11 | 02May11 02May11 | None | | None | | | |
| 2.0.1.1.4.5.3 | Prep Req & Award PO for Pond Pumps | Complete | 67d | 01Jul11 01Nov11 | 12Sep11 15Dec11 | None | | None | | 2.0.1.1.4.6.5[FS]; 2.10.9.6[FS] | 2.0.1.1.4.5.4[FS] |
| 2.0.1.1.4.5.4 | Vendor Fab & Receive Pond Pumps | Complete | 87d | 18Nov11 29Dec11 | 05Jan12 07May12 | None | | None | | 2.0.1.1.4.5.3[FS] | 2.0.1.1.4.5.13[FS]; 2.0.1.1.4.5.20[FS] |
| 2.0.1.1.4.5.5 | Prep Req & Award PO for Heat Exchanger | Complete | 67d | 01Jun11 06Apr12 | 12Sep11 15Dec11 | None | | None | | 2.0.1.1.4.6.5[FS]; 2.10.9.6[FS] | 2.0.1.1.4.5.6[FS] |
| 2.0.1.1.4.5.6 | Vendor Fab & Receive Heat Exchanger | Complete | 127d | 11May12 10Aug12 | 02Apr12 28Sep12 | None | | None | | 2.0.1.1.4.5.5[FS] | 2.0.1.1.4.5.15[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.1.4.5.7 | Prep Req & Award PO for Control Valve Components | Complete | 67d | 01Jun11 29Feb12 | 12Sep11 15Dec11 | None | | None | | 2.0.1.1.4.6.5[FS]; 2.10.9.6[FS] | 2.0.1.1.4.5.8[FS] |
| 2.0.1.1.4.5.8 | Vendor Fab & Receive Control Valve Components | Complete | 87d | 14Mar12 04May12 | 07Mar12 09Jul12 | None | | None | | 2.0.1.1.4.5.7[FS] | 2.0.1.1.4.5.15[FS] |
| 2.0.1.1.4.5.9 | Prep Req & Award PO for Filtration Components | Complete | 67d | 01Jun11 29Feb12 | 12Sep11 15Dec11 | None | | None | | 2.0.1.1.4.6.5[FS]; 2.10.9.6[FS] | 2.0.1.1.4.5.10[FS] |
| 2.0.1.1.4.5.10 | Vendor Fab & Receive Filtration Components | Complete | 87d | 01Mar12 29Mar12 | 07Mar12 09Jul12 | None | | None | | 2.0.1.1.4.5.9[FS] | 2.0.1.1.4.5.15[FS] |
| 2.0.1.1.4.5.11 | Procure Instrumentation | Complete | 130d | 03Oct11 03Aug12 | 08Feb12 09Aug12 | None | | None | | 2.0.1.1.4.6.5[FS+40d] | 2.0.1.1.4.5.17[FS] |
| 2.0.1.1.4.5.12 | Procure Piping Components & Hardware | Complete | 130d | 13Dec11 03Aug12 | 08Feb12 09Aug12 | None | | None | | 2.0.1.1.4.6.5[FS+40d] | 2.0.1.1.4.5.15[FS] |
| 2.0.1.1.4.5.13 | Install Pond Pump Upgrades PV9 | Complete | 27d | 15May12 20Feb13 | 31May12 09Jul12 | None | | None | | 2.0.1.1.4.5.4[FS]; 2.10.10.5[FS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.5.14 | Upgrade Pond Pump Electrical Service PV9 & MI-62 | Complete | 27d | 20Dec12 20Feb13 | 01May12 07Jun12 | None | | None | | 2.10.10.5[FS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.5.15 | Install MI-8 Pump Room Piping & Components | Complete | 27d | 23Apr12 28Sep12 | 04Sep12 10Oct12 | None | | None | | 2.0.1.1.4.5.12[FS]; 2.0.1.1.4.5.6[FS]; 2.0.1.1.4.5.10[FS]; 2.0.1.1.4.5.8[FS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.5.16 | Install MI-8 Electrical Service Upgrades | Complete | 17d | 01May12 15Jan13 | 01May12 23May12 | None | | None | | 2.10.10.5[FS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.5.17 | Install MI-8 Instrumentation | Complete | 17d | 04Sep12 15Apr13 | 21May12 13Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.1.1.4.5.11[FS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.5.18 | Test & Troubleshoot MI-8 LCW Cooling System | Complete | 11d | 15Apr13 28Jun13 | 21Feb13 07Mar13 | None | | None | | 2.0.1.1.4.5.15[FS]; 2.0.1.1.4.5.14[FS]; 2.0.1.1.4.5.13[FS]; 2.0.1.1.4.5.20[FS]; 2.0.1.1.4.5.16[FS]; 2.0.1.1.4.5.17[FS]; 2.0.1.1.4.5.21[FS] | 2.0.1.1.5.5[FS] |
| 2.0.1.1.4.5.19 | Design study for MI cooling | Complete | 60d | 24Jan11 03Oct11 | 18Jan11 11Apr11 | None | | None | | | 2.0.1.1.4.5.1[FS] |
| 2.0.1.1.4.5.20 | Additional PV9 upgrades | Complete | 25d | 03Oct12 07Dec12 | 02Jul12 28Dec12 | None | | None | | 2.0.1.1.4.5.4[FS]; 2.10.10.5[FS] | 2.0.1.1.4.5.18[FS]; 2.0.1.1.4.5.21[SS] |
| 2.0.1.1.4.5.21 | Take PV9 upgrades off-project | Complete | 25d | 03Oct12 20Feb13 | 29Oct12 04Dec12 | None | | None | | 2.0.1.1.4.5.20[SS] | 2.0.1.1.4.5.18[FS] |
| 2.0.1.1.4.6 | Final Design | Complete | 464d | 01Feb11 30Nov12 | 01Feb11 06Dec11 | None | | None | | | |
| 2.0.1.1.4.6.1 | Determine Heat Exchanger Size | Complete | 98d | 01Feb11 30Sep11 | 01Feb11 17Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.5.1[FS] |
| 2.0.1.1.4.6.2 | Determine Pond Pump Size | Complete | 98d | 01Feb11 30Sep11 | 01Feb11 17Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.5.1[FS] |
| 2.0.1.1.4.6.3 | Design Electrical Service Modifications | Complete | 33d | 13Dec11 01May12 | 15Sep11 31Oct11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.6.5[FS] |
| 2.0.1.1.4.6.4 | Design Instrumentation & Controls Systems | Complete | 98d | 01Feb11 30Nov12 | 01Feb11 17Jun11 | None | | None | | 1.0.1.1.5.4[FS] | 2.0.1.1.4.5.1[FS] |
| 2.0.1.1.4.6.5 | Recycler Cooling System Engineering Design Review | Complete | 15d | 03Oct11 23Nov11 | 14Nov11 06Dec11 | None | | None | | 2.0.1.1.4.6.3[FS]; 2.0.1.1.4.3.1[FS]; 2.0.1.1.4.4.1[FS]; 2.0.1.1.4.5.1[FS]; 2.0.1.1.4.1.1[FS]; 2.0.1.1.4.2.1[FS] | 2.0.1.1.4.5.11[FS+40d]; 2.0.1.1.4.1.2[FS]; 2.0.1.1.4.5.3[FS]; 2.0.1.1.4.5.7[FS]; 2.0.1.1.4.5.5[FS]; 2.0.1.1.4.5.9[FS]; 2.0.1.1.4.5.12[FS+40d]; 2.0.1.1.4.4.2[FS]; 2.0.1.1.4.3.2[FS] |
| 2.0.1.1.5 | Recycler Ring Mods Milestones | Complete | 889d | 15Dec09 28Jun13 | 15Dec09 12Nov12 | None | | None | | | |
| 2.0.1.1.5.1 | RR 53 Mhz RF Ready for Beam | Complete | 0 | 28Jun13 28Jun13 | 12Nov12 12Nov12 | None | | None | | 1.0.4.1.3[FS]; 2.0.1.1.1.14.35.6[FS]; 2.0.2.1.6.3[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.5.2 | RR Permanent Magnet Quads Fabricated & Mapped | Complete | 0 | 23Mar12 23Mar12 | 20Sep11 20Sep11 | None | | None | | 2.0.1.1.1.4.13[FS] | |
| 2.0.1.1.5.3 | RR Orders Placed for Copper for 53 Mhz RF | Complete | 0 | 23Dec09 23Dec09 | 19Feb10 19Feb10 | None | | None | | 2.0.1.1.2.2[FS] | 2.0.1.1.2.8[FS] |
| 2.0.1.1.5.4 | RR ADCW Magnet Refurbish Complete | Complete | 0 | 29Jun12 29Jun12 | 13Jul10 13Jul10 | None | | None | | 2.0.1.1.1.3.4[FS]; 2.0.1.1.1.3.7[FS] | 2.0.4.3.14[FS] |
| 2.0.1.1.5.5 | RR LCW System Mods Complete | Complete | 0 | 28Jun13 28Jun13 | 25Oct12 25Oct12 | None | | None | | 2.0.1.1.4.5.18[FS]; 2.0.1.1.4.1.6[FS]; 2.0.1.1.4.4.6[FS]; 2.0.1.1.4.3.6[FS]; 2.0.1.1.4.2.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.1.5.7 | MLAW Design Review Complete | Complete | 0 | 19Feb10 19Feb10 | 15Dec09 15Dec09 | None | | None | | | 2.0.1.1.5.8[FS+10d] |
| 2.0.1.1.5.8 | Ready to Order Parts for MLAW Magnets | Complete | 0 | 15Dec09 15Dec09 | 30Dec09 30Dec09 | None | | None | | 2.0.1.1.5.7[FS+10d] | 2.0.1.1.5.9[FS+80d] |
| 2.0.1.1.5.9 | Sufficient Parts for First MLAW Magnet | Complete | 0 | 26Apr10 26Apr10 | 26Apr10 26Apr10 | None | | None | | 2.0.1.1.5.8[FS+80d] | 2.0.1.1.5.10[FS+63d]; 2.0.1.1.5.13[FS+133d] |
| 2.0.1.1.5.10 | First MLAW Magnet Complete | Complete | 0 | 28Aug12 28Aug12 | 01Sep11 01Sep11 | None | | None | | 2.0.1.1.5.9[FS+63d]; 2.0.1.1.5.13[FS+58d] | 2.0.1.1.5.11[FS+42d]; 2.0.1.1.1.14.30.3[FS] |
| 2.0.1.1.5.11 | Second MLAW Magnet Complete | Complete | 0 | 30Aug12 30Aug12 | 31Oct11 31Oct11 | None | | None | | 2.0.1.1.5.10[FS+42d] | 2.0.1.1.1.10.5[FF]; 2.0.1.1.5.12[FS+60d]; 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.1.5.12 | All MLAW Magnets Complete (including spares) | Complete | 0 | 02Oct12 02Oct12 | 01Feb12 01Feb12 | None | | None | | 2.0.1.1.5.11[FS+60d] | |
| 2.0.1.1.5.13 | Complete evaluation of inner lamination vacuum characteristics & lamination acquisition | Complete | 0 | 30Nov10 30Nov10 | 02Nov10 02Nov10 | None | | None | | 2.0.1.1.5.9[FS+133d] | 2.0.1.1.5.10[FS+58d] |
| 2.0.1.2 | Recycler Kicker System | In Progress | 1471d | 28Dec07 01Nov13 | 28Dec07 01Nov13 | None | | None | | | |
| 2.0.1.2.1 | RR Injection Production Kicker Magnets | In Progress | 1197d | 03Feb09 01Nov13 | 02Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.1.1 | Procurement of RR Injection Production Kicker | In Progress | 1197d | 03Feb09 01Nov13 | 02Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.1.1.1 | RR Inject Prod Kicker Prep Req & Award PO for All Mag Ferrites (Sole Source) | Complete | 20d | 21Jun09 07Jul09 | 04Jan10 01Feb10 | None | | None | | 1.0.1.2.7.6[FS]; 2.0.4.3.22[FS]; 2.0.4.4.3.1[FS]; 2.10.8.1[FS] | 2.0.1.2.1.1.2[FF+20d] |
| 2.0.1.2.1.1.2 | RR Inject Prod Kicker Receive Ferrites for All Magnets | Complete | 20d | 16Oct09 26Feb10 | 05Jan10 02Feb10 | None | | None | | 2.0.1.2.1.1.1[FF+20d] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.2.1.1.3 | RR Inject Prod Kicker Prep Req & Award PO for all Load Resistor Parts for All Systs | Complete | 20d | 01Oct09 15Jan10 | 01Oct09 28Oct09 | None | | None | | 2.0.4.3.22[FS]; 2.0.4.4.3.2[FS]; 1.0.1.2.1.1.9[FS]; 2.0.4.4.3.5[FS]; 2.10.9.6[FS] | 2.0.1.2.1.1.4[FS] |
| 2.0.1.2.1.1.4 | RR Inject Prod Kicker Receive All Load Resistor Parts for All Systs | Complete | 60d | 01Feb10 26Feb10 | 29Oct09 29Jan10 | None | | None | | 2.0.1.2.1.1.3[FS] | 2.0.1.2.1.2.2[FS]; 2.0.1.2.2.2.5[FS]; 2.0.1.2.3.3.5[FS]; 2.0.1.2.5.2.2[FS] |
| 2.0.1.2.1.1.5 | Procure 15 Beamtubes for RR Inj from TD Inventory | Complete | 1d | 10Sep09 10Sep09 | 02Feb09 02Feb09 | None | | None | | 1.0.1.2.1.2.3[FS]; 2.0.4.4.3.3[FS]; 2.10.9.5[FS] | |
| 2.0.1.2.1.1.6 | RR Injection Select Ceramic Tubes & Cut to Length | Complete | 118d | 16Mar09 30Nov09 | 03Feb09 30Mar09 | None | | None | | | 2.0.1.2.1.1.7[FS] |
| 2.0.1.2.1.1.7 | Prep Req & Award PO for Kovar Braze on 15 Ceramic Beam Tubes | Complete | 30d | 02Nov09 30Nov09 | 09Mar10 19Apr10 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.2.1.1.6[FS]; 1.0.1.2.1.1.8[FS]; 2.0.4.4.3.4[FS]; 2.10.9.6[FS]; 1.0.1.2.1.1.5[FS] | 2.0.1.2.1.1.8[FS] |
| 2.0.1.2.1.1.8 | Receive 7 Kovar Brazed Ceramic Tubes | Complete | 190d | 01Feb10 24May10 | 20Apr10 21Jan11 | None | | None | | 2.0.1.2.1.1.7[FS] | 2.0.1.2.1.2.9[FS] |
| 2.0.1.2.1.1.9 | Prep Req & Award PO for Parts for 1 Pre-production Magnet | Complete | 20d | 18Jun09 26Aug09 | 04Jan10 01Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.0.4.4.3.2[FS]; 2.10.8.1[FS]; 1.0.1.2.1.1.9[FS]; 2.0.4.4.3.5[FS] | 2.0.1.2.1.1.10[FS] |
| 2.0.1.2.1.1.10 | Receive Parts for 1 Pre-production Magnet | Complete | 60d | 03Aug09 27Sep09 | 02Feb10 26Apr10 | None | | None | | 2.0.1.2.1.1.9[FS] | 2.0.1.2.1.2.2[FS] |
| 2.0.1.2.1.1.11 | Prep Req & Award PO for Parts for 5 Other Magnets | Complete | 20d | 01Oct10 11Nov10 | 18Nov10 17Dec10 | None | | None | | 2.0.4.4.3.12[FS]; 2.10.9.6[FS]; 2.0.1.2.8.1[FS] | 2.0.1.2.1.1.12[FF+40d] |
| 2.0.1.2.1.1.12 | Receive Parts for 5 Other Magnets | Complete | 20d | 01Oct10 28Feb11 | 21Jan11 17Feb11 | None | | None | | 2.0.1.2.1.1.11[FF+40d] | 2.0.1.2.1.1.21[FS]; 2.0.1.2.1.2.6[FS] |
| 2.0.1.2.1.1.15 | RR Prep Req & Award PO for Resistors | Complete | 20d | 03Feb09 20Mar09 | 02Feb09 27Feb09 | None | | None | | 2.10.9.5[FS] | 2.0.1.2.1.1.16[FS] |
| 2.0.1.2.1.1.16 | RR Receive & Measure Resistors for 11 loads | Complete | 60d | 01May09 30Oct09 | 02Mar09 22May09 | None | | None | | 2.0.1.2.1.1.15[FS] | 2.0.1.2.2.2.5[FS]; 2.0.1.2.1.2.2[FS]; 2.0.1.2.3.3.5[FS]; 2.0.1.2.5.2.2[FS] |
| 2.0.1.2.1.1.17 | Procure vacuum oven parts | Complete | 20d | 01Dec09 30Dec09 | 16Nov09 15Dec09 | None | | None | | 2.10.9.8[FS+10d] | 2.0.1.2.1.1.18[FS] |
| 2.0.1.2.1.1.18 | Receive vacuum oven parts | Complete | 40d | 04Jan10 26Feb10 | 16Dec09 16Feb10 | None | | None | | 2.0.1.2.1.1.17[FS] | 2.0.1.2.1.1.19[FS] |
| 2.0.1.2.1.1.19 | Assemble vacuum oven | Complete | 10d | 01Mar10 31Mar10 | 17Feb10 02Mar10 | None | | None | | 2.0.1.2.1.1.18[FS] | 2.0.1.2.1.1.20[FS] |
| 2.0.1.2.1.1.20 | Commission vacuum oven | Complete | 5d | 01Mar10 31Mar10 | 03Mar10 09Mar10 | None | | None | | 2.0.1.2.1.1.19[FS] | 2.0.1.2.1.2.1[FS] |
| 2.0.1.2.1.1.21 | SPS assignments | Planned | 1d | 01Nov13 01Nov13 | 01Nov13 01Nov13 | None | | None | | 2.0.1.2.1.1.12[FS]; 2.0.1.1.1.3.9[SS] | 2.0.1.2.3.2.24[SS] |
| 2.0.1.2.1.2 | Assembly & Testing of RR Injection Production Kicker | Complete | 745d | 01Sep09 17Aug12 | 01Sep09 07May12 | None | | None | | | |
| 2.0.1.2.1.2.1 | RR Inj Weld Bellows & Vacuum Flanges on 8 Ceramic Beam Tube Ends | Complete | 35d | 27Jun11 09Mar12 | 01Jun11 20Jul11 | None | | None | | 2.0.1.2.1.1.20[FS]; 2.0.1.2.1.2.10[FS] | 2.0.1.2.1.2.6[FS] |
| 2.0.1.2.1.2.2 | Assemble 1 Pre-production Magnet & Load | Complete | 40d | 01Feb10 31Jan11 | 03Feb10 30Mar10 | None | | None | | 2.0.1.2.1.1.4[FS]; 2.0.1.2.1.1.10[FS]; 2.0.1.2.1.1.16[FS] | 2.0.1.2.1.2.3[FS] |
| 2.0.1.2.1.2.3 | RR Injection Kicker Low Voltage Testing 1 Pre-production Magnet | Complete | 20d | 02Sep10 20Sep10 | 22Nov10 21Dec10 | None | | None | | 2.0.1.2.1.2.2[FS] | 2.0.1.2.1.2.4[FS] |
| 2.0.1.2.1.2.4 | RR Inject Kicker HV Testing 1 Pre-production Magnet | Complete | 5d | 15Oct10 21Oct10 | 22Dec10 24Jan11 | None | | None | | 2.0.1.2.1.2.3[FS]; 2.0.1.2.2.2.1[FS]; 2.0.4.4.1.4[FS] | 2.0.1.2.2.5[FS]; 2.0.1.2.2.1.1[FS] |
| 2.0.1.2.1.2.5 | RR Inject Kicker Life Testing 1 Pre-production Magnet (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | | |
| 2.0.1.2.1.2.6 | Assemble 5 RR Injection Kicker Magnets | Complete | 40d | 23Feb10 29Jul11 | 18Mar11 12May11 | None | | None | | 2.0.1.2.1.2.9[FS]; 2.0.1.2.1.1.12[FS]; 2.0.1.2.1.2.1[FS] | 2.0.1.2.1.2.7[FF+20d]; 2.0.1.2.1.2.11[SS+20d] |
| 2.0.1.2.1.2.7 | Low voltage testing 5 magnets | Complete | 80d | 25Oct10 05Aug11 | 18Feb11 10Jun11 | None | | None | | 2.0.1.2.1.2.6[FF+20d]; 2.0.1.2.2.2.5[SS+20d] | 2.0.1.2.4.3.5[FS] |
| 2.0.1.2.1.2.9 | Apply Resistive Coating Inside Ceramic Beam Tubes | Complete | 4d | 07Jul10 29Apr11 | 14Mar11 17Mar11 | None | | None | | 2.0.1.2.1.1.8[FS] | 2.0.1.2.1.2.6[FS]; 2.0.1.2.1.2.10[FS] |
| 2.0.1.2.1.2.10 | Resistive Coating Inside Ceramic Beam Tubes - Additional | Complete | 21d | 02May11 10Jan12 | 02May11 31May11 | None | | None | | 2.0.1.2.1.2.9[FS] | 2.0.1.2.1.2.1[FS] |
| 2.0.1.2.1.2.11 | Storage of RR Inj kicker magnets under vacuum | Complete | 200d | 31Jan12 17Aug12 | 21Jul11 07May12 | None | | None | | 2.0.1.2.1.2.6[SS+20d] | 2.0.1.1.1.14.30.3[SS] |
| 2.0.1.2.2 | RR Injection Production Kicker Power Supply | Complete | 1354d | 28Dec07 17May13 | 28Dec07 18Dec12 | None | | None | | | |
| 2.0.1.2.2.1 | Procurement of RR Injection Production Kicker Power Supply | Complete | 1098d | 28Dec07 10May12 | 28Dec07 06Jan12 | None | | None | | | |
| 2.0.1.2.2.1.1 | RR Inj Prep Req & Award PO for Parts for 6 Power Supply Controls | Complete | 40d | 07Dec10 27Jan12 | 25Jan11 21Mar11 | None | | None | | 2.0.1.2.1.2.4[FS]; 2.10.9.6[FS] | 2.0.1.2.2.1.2[FF+60d] |
| 2.0.1.2.2.1.2 | RR Inj Receive Parts for 6 Power Supply Controls | Complete | 21d | 14Mar11 27Feb12 | 16May11 14Jun11 | None | | None | | 2.0.1.2.2.1.1[FF+60d] | 2.0.1.2.2.2.2[FS] |
| 2.0.1.2.2.1.3 | GC Prep Req & Award PO for Parts for 1 Pre-production HV power supply pulser (Moved Off Project) | Complete | 40d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | | 2.0.1.2.2.1.4[FF] |
| 2.0.1.2.2.1.4 | GC Receive Parts for 1 Pre-production HV Power Supply Pulsers (Moved Off Project) | Complete | 21d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 2.0.1.2.2.1.3[FF] | |
| 2.0.1.2.2.1.7 | RR Inject Prod Kicker PS Prep Req & Award PO for Thyratrons for 6 Pulsers | Complete | 40d | 01Nov10 30Nov10 | 18Nov10 20Jan11 | None | | None | | 2.0.1.2.8.1[FS]; 2.0.4.4.3.12[FS]; 2.10.9.6[FS] | 2.0.1.2.2.1.8[FF+60d] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.2.2.1.8 | RR Inject Prod Kicker PS Receive Thyratrons for 6 Pulsers | Complete | 11d | 01Nov10 30Nov10 | 31Mar11 14Apr11 | None | | None | | 2.0.1.2.2.1.7[FF+60d] | 2.0.1.2.2.2.3[FS] |
| 2.0.1.2.2.1.9 | RR Inj Prep Req & Award PO for 1 Bumper Pulser & Energy Storage (PFL Substitute) | Complete | 40d | 15Aug11 20Feb12 | 18Nov10 20Jan11 | None | | None | | 2.0.1.2.8.1[FS]; 1.0.1.2.6.9[FS]; 1.0.1.2.1.1.8[FS]; 2.0.4.4.3.12[FS]; 2.0.4.4.3.4[FS]; 2.0.4.4.3.11[FS]; 2.10.9.6[FS] | 2.0.1.2.2.1.10[FF+40d] |
| 2.0.1.2.2.1.10 | RR Inj Receive 1 Bumper Pulser & Energy Storage (PFL Substitute) | Complete | 21d | 20Oct11 10May12 | 05Dec11 06Jan12 | None | | None | | 2.0.1.2.2.1.9[FF+40d] | 2.0.1.2.2.2.4[FS] |
| 2.0.1.2.2.1.11 | RR Inj Prep Req & Award PO for Parts for 6 Pulsers | Complete | 40d | 27Dec10 27Sep11 | 16Dec10 15Feb11 | None | | None | | 2.0.1.2.8.1[FS]; 2.10.9.6[FS]; 2.0.4.4.3.12[FS] | 2.0.1.2.2.1.12[FS-22d]; 2.0.1.2.2.2.3[FS] |
| 2.0.1.2.2.1.12 | RR Inject Prod Kicker PS Receive Parts for 6 Pulsers | Complete | 84d | 11Mar11 04Nov11 | 11Mar11 08Jul11 | None | | None | | 2.0.1.2.2.1.11[FS-22d] | 2.0.1.2.2.2.3[FS] |
| 2.0.1.2.2.2 | Assembly & Testing of RR Injection Production Kicker Power Supply | Complete | 1354d | 28Dec07 17May13 | 28Dec07 23Apr12 | None | | None | | | |
| 2.0.1.2.2.2.1 | Gap Clearing Assemble 1 Pre-production HV Pulser (Moved Off Project) | Complete | 30d | 28Dec07 28Dec07 | 28Dec07 28Dec07 | None | | None | | 1.0.1.2.2.2.5[FF] | 2.0.1.2.1.2.4[FS] |
| 2.0.1.2.2.2.2 | RR Inj Assemble Controls Modules & Racks for 6 Pulsers & 1 Bumpers | Complete | 215d | 07Mar11 22Aug12 | 15Jun11 23Apr12 | None | | None | | 2.0.4.4.1.4[FF+20d]; 2.0.1.2.2.1.2[FS] | 2.0.1.2.2.3[FS] |
| 2.0.1.2.2.2.3 | RR Inj Assemble 4 Pulser Housing | Complete | 59d | 07Mar11 05Dec11 | 11Jul11 30Sep11 | None | | None | | 2.0.4.4.1.4[FF+20d]; 2.0.1.2.2.1.8[FS]; 2.0.1.2.2.1.11[FS]; 2.0.1.2.2.1.12[FS] | 2.0.1.2.2.3[SS+20d] |
| 2.0.1.2.2.2.4 | RR Inj Assemble 1 Bumper System | Complete | 30d | 07Mar11 08Jan13 | 01Sep11 13Oct11 | None | | None | | 2.0.1.2.2.1.10[FS] | 2.0.1.2.2.3[FS] |
| 2.0.1.2.2.2.5 | RR Inj Measure & Assemble 6 Loads | Complete | 70d | 30Apr10 31Aug11 | 14Jun10 21Sep10 | None | | None | | 2.0.1.2.1.1.16[FS]; 1.0.1.2.1.2.6[FS]; 2.0.1.2.1.1.4[FS]; 2.0.4.4.3.13[FS] | 2.0.1.2.2.3[FS]; 2.0.1.2.1.2.7[SS+20d] |
| 2.0.1.2.2.2.6 | RR Inj Wind 5 Cables on PFL frames | Complete | 20d | 27May11 31Aug11 | 17Jun11 15Jul11 | None | | None | | 1.0.1.2.2.3.9[FS]; 2.0.4.4.1.4[FS] | 2.0.4.4.3.10[FS]; 2.0.1.2.2.2.7[FS] |
| 2.0.1.2.2.2.7 | RR Injection Install 5 PFL Frames in MI-14 Bldg | Complete | 5d | 13Jun11 29Jul11 | 18Jul11 22Jul11 | None | | None | | 2.0.1.2.2.2.6[FS] | 2.0.4.4.3.10[FS] |
| 2.0.1.2.2.2.8 | RR Injection Bumper PFN Install in MI-14 | Complete | 9d | 01Apr13 17May13 | 01Mar12 13Mar12 | None | | None | | 2.0.4.4.1.4[FS]; 2.0.1.2.2.6.2[FS] | 2.0.4.4.3.7[FS] |
| 2.0.1.2.2.2.9 | RR Injection Install Resonant Charger in MI-14 | Complete | 24d | 24Sep12 19Oct12 | 16Mar12 18Apr12 | None | | None | | 2.0.4.4.1.4[FS]; 1.0.1.2.2.3.9[FS] | 2.0.4.4.3.10[FS] |
| 2.0.1.2.2.3 | RR Injection Checkout/Test Pulsers into Dummy Load in MI-14 SB | Complete | 80d | 28Jan13 23Apr13 | 24Aug12 18Dec12 | None | | None | | 2.0.4.4.1.4[FS]; 2.0.1.2.2.2.5[FS]; 2.0.1.2.2.2.4[FS]; 2.0.1.2.2.2.2[FS]; 2.0.1.2.2.2.3[SS+20d] | 2.0.4.3.16[FS] |
| 2.0.1.2.2.4 | Remove Gap Clearing Kicker System from MI (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | 2.0.4.4.1.2[FS] | 2.0.1.2.2.5[FS] |
| 2.0.1.2.2.5 | RR Inj & Gap Clr Inst Mags, Cbles & Fluor Pipe in Tunn., Term, Connect & Test Chk 2 Systs | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.2.1.2.4[FS]; 2.0.4.4.1.2[FS]; 2.0.1.2.2.4[FS] | 1.0.1.1.2.2.5.4[FF+10d] |
| 2.0.1.2.2.6 | RR Inj Bumper | Complete | 504d | 01Apr11 03Apr13 | 11Apr11 18Jul11 | None | | None | | | |
| 2.0.1.2.2.6.1 | RR Injection Bumper PFN Procure Parts | Complete | 45d | 01Apr11 27Jan12 | 11Apr11 13Jun11 | None | | None | | 1.0.1.2.2.1.2[FS]; 1.0.1.2.2.1.5[FS] | 2.0.1.2.2.6.2[FS] |
| 2.0.1.2.2.6.2 | RR Injection Bumper PFN Assemble & Test | Complete | 24d | 03Jan12 03Apr13 | 14Jun11 18Jul11 | None | | None | | 2.0.1.2.2.6.1[FS] | 1.0.1.2.3.7[FS]; 2.0.1.2.2.2.8[FS]; 2.0.1.2.4.3.5[FS]; 2.0.4.4.3.10[FS] |
| 2.0.1.2.3 | RKB Magnets | In Progress | 1160d | 26Mar09 01Nov13 | 02Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.3.2 | RKB Magnet Procurement | In Progress | 1160d | 26Mar09 01Nov13 | 02Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.3.2.1 | Procure 14 Beamtubes for RR Ext/ MI Inj from TD Inventory | Complete | 1d | 10Sep09 10Sep09 | 02Feb09 02Feb09 | None | | None | | 1.0.1.2.1.2.3[FS]; 2.0.4.4.3.3[FS]; 2.10.9.5[FS] | 2.0.1.2.3.2.2[FS] |
| 2.0.1.2.3.2.2 | RR Ext/MI Inj Select Ceramic Tubes & Cut to Length | Complete | 40d | 02Aug10 16Nov11 | 03Feb09 30Mar09 | None | | None | | 2.0.1.2.3.2.1[FS] | 2.0.1.2.3.2.16[FS] |
| 2.0.1.2.3.2.3 | Prep Req & Award PO for All Magnet Ferrites for RKB magnets | Complete | 34d | 17Mar11 02May11 | 01Apr11 18May11 | None | | None | | 1.0.1.2.4.2.3.9[FS]; 2.10.9.6[FS] | 2.0.1.2.3.2.4[FS+40d] |
| 2.0.1.2.3.2.4 | Receive RKB Ferrites for 6 magnets | Complete | 100d | 01Jul11 30Mar12 | 11Aug11 06Jan12 | None | | None | | 2.0.1.2.3.2.3[FS+40d] | 2.0.1.2.3.3.4[FS] |
| 2.0.1.2.3.2.5 | Prep Req & Award PO for All Other Parts for 6 RKB Magnets and 18cable adapters | Complete | 40d | 09May11 30Mar12 | 02May11 27Jun11 | None | | None | | 1.0.1.2.4.2.3.9[FS]; 2.10.9.6[FS] | 2.0.1.2.3.2.6[FS] |
| 2.0.1.2.3.2.6 | Receive All Other RKB Magnet and Adapter Parts | Complete | 60d | 15Jul11 21Jun12 | 28Jun11 21Sep11 | None | | None | | 2.0.1.2.3.2.5[FS] | 2.0.1.2.3.3.4[FS] |
| 2.0.1.2.3.2.7 | RR Ext Kick Prep Req & Award PO for Parts & Fluorinert for Cooling Syst Skid C | Complete | 20d | 26Mar09 15Sep09 | 27Apr09 22Jun09 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.4.1.3[FS] | 2.0.1.2.3.2.8[FF+40d] |
| 2.0.1.2.3.2.8 | RR Ext Kicker Receive Parts & Fluorinert for Cooling System Skid C | Complete | 21d | 08Jun09 26Feb10 | 04Jan10 02Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.2.3.2.7[FF+40d] | 2.0.1.2.3.3.7[FS] |
| 2.0.1.2.3.2.11 | Prep Req & Award PO for Parts for MI Inject HV & Tail Bumper Pulsers (OBSOLETE) | Complete | 1d | 01Feb12 01Feb12 | 01Feb12 01Feb12 | None | | None | | 1.0.1.2.6.7[FS]; 2.10.9.6[FS] | 2.0.1.2.3.2.12[FS] |
| 2.0.1.2.3.2.12 | Receive Parts for MI Inject HV & Tail Bumper Pulsers (OBSOLETE) | Complete | 1d | 02Feb12 02Feb12 | 02Feb12 02Feb12 | None | | None | | 2.0.1.2.3.2.11[FS] | 2.0.1.2.3.3.11[FS] |
| 2.0.1.2.3.2.16 | RKB Magnet Kovar Braze Tubes at Omley | Complete | 105d | 01Apr11 14May12 | 21Apr09 08Mar10 | None | | None | | 2.0.1.2.3.2.2[FS] | 2.0.1.2.3.2.24[FS]; 2.0.1.2.3.3.3[FF+10d] |
| 2.0.1.2.3.2.17 | Prep Req & Award PO for 20 beam tubes | Complete | 21d | 19Jul10 27Sep10 | 19Jul10 16Aug10 | None | | None | | | 2.0.1.2.3.2.18[FS+104d] |
| 2.0.1.2.3.2.18 | Receive 20 beam tubes | Complete | 63d | 01Feb11 28Feb11 | 17Feb11 16May11 | None | | None | | 2.0.1.2.3.2.17[FS+104d] | 2.0.1.2.3.2.19[FS]; 2.0.1.2.3.2.22[SS+10d]; 2.0.1.2.3.2.21[SS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.2.3.2.19 | Prep Req & Award PO for Kovar brazing RKB tubes at Coorstek | Complete | 42d | 01Mar11 28Mar11 | 17May11 15Jul11 | None | | None | | 2.0.1.2.3.2.18[FS] | 2.0.1.2.3.2.20[FS+60d] |
| 2.0.1.2.3.2.20 | Receive RKB tubes from Coorstek | Complete | 42d | 04Jan12 12Apr12 | 15Mar12 11May12 | None | | None | | 2.0.1.2.3.2.19[FS+60d] | 2.0.1.2.3.3.3[FF+20d]; 2.0.1.2.3.3.3[SS+40d] |
| 2.0.1.2.3.2.21 | Procure 6 RKD tubes | Complete | 30d | 01Apr11 29Apr11 | 01Mar11 11Apr11 | None | | None | | 2.0.1.2.3.2.18[SS] | |
| 2.0.1.2.3.2.22 | Prep Req & Award PO for Kovar brazing RKD tubes at Coorstek | Complete | 30d | 01Apr11 29Apr11 | 15Mar11 25Apr11 | None | | None | | 2.0.1.2.3.2.18[SS+10d] | 2.0.1.2.3.2.23[FS+128d] |
| 2.0.1.2.3.2.23 | Receive RKD tubes from Coorstek | Complete | 40d | 03Oct11 04Jan12 | 01Nov11 03Jan12 | None | | None | | 2.0.1.2.3.2.22[FS+128d] | 2.0.1.2.5.2.5[FF+10d] |
| 2.0.1.2.3.2.24 | SPS assignments | Planned | 1d | 01Nov13 01Nov13 | 01Nov13 01Nov13 | None | | None | | 2.0.1.2.1.1.21[SS]; 2.0.1.2.3.2.16[FS] | 2.0.1.2.5.1.12[SS] |
| 2.0.1.2.3.3 | RKB Fabrication, Asssembly, Checkout, and Test | Complete | 877d | 01Dec09 29May13 | 17Dec09 13Feb13 | None | | None | | | |
| 2.0.1.2.3.3.3 | RKB tubes coat | Complete | 30d | 01Apr11 19Jul12 | 18Aug11 29Sep11 | None | | None | | 2.0.1.2.3.2.20[FF+20d]; 2.0.1.2.3.2.16[FF+10d]; 2.0.1.2.3.2.20[SS+40d] | 2.0.1.2.3.3.12[FF+20d]; 2.0.1.2.3.3.12[SS+31d] |
| 2.0.1.2.3.3.4 | RKB Magnets- Assemble Magnets and cable adaptors | Complete | 65d | 20Aug12 25Feb13 | 22May12 22Aug12 | None | | None | | 2.0.1.2.5.2.1[FS]; 2.0.1.2.3.2.4[FS]; 2.0.1.2.3.2.6[FS] | 2.0.1.2.3.3.8[SS+30d]; 2.0.1.2.3.3.6[FS] |
| 2.0.1.2.3.3.5 | RKB Magnets - Assemble loads and fluorinert feedthroughs | Complete | 65d | 01Jun11 31Jan13 | 09May11 09Aug11 | None | | None | | 2.0.1.2.1.1.4[FS]; 2.0.1.2.1.1.16[FS] | 2.0.1.2.4.2.8[FS] |
| 2.0.1.2.3.3.6 | RKB Magnets - Attach Cable Adaptors | Complete | 10d | 18Mar13 10May13 | 31Jan13 13Feb13 | None | | None | | 2.0.1.1.1.14.33.1.1[FS]; 2.0.1.2.3.3.4[FS] | 2.0.1.1.1.14.33.1.4[SS] |
| 2.0.1.2.3.3.7 | RR Ext Kicker Magnet Assemble Cooling Skid C in MI-30 | Complete | 40d | 01Dec09 26Feb10 | 17Dec09 17Feb10 | None | | None | | 2.0.1.2.3.2.8[FS] | 2.0.1.2.3.3.9[FS]; 2.0.1.2.3.5[FS] |
| 2.0.1.2.3.3.8 | RKB Magnet - LV Testing | Complete | 40d | 02Oct12 25Feb13 | 27Aug12 22Oct12 | None | | None | | 2.0.1.2.3.3.4[SS+30d] | 2.0.1.2.3.3.9[SS+20d] |
| 2.0.1.2.3.3.9 | RKB Magnets - HV testing in transfer gallery | Complete | 60d | 17Dec12 29Mar13 | 30Oct12 30Jan13 | None | | None | | 2.0.1.2.3.3.8[SS+20d]; 2.0.1.2.3.3.7[FS]; 1.0.1.2.5.2.4[FS] | 2.0.1.1.1.14.33.2.3[SS+20d]; 2.0.1.2.3.3.10[SS+20d] |
| 2.0.1.2.3.3.10 | RKB Magnets - Life testing | Complete | 30d | 17Dec12 22Apr13 | 29Nov12 15Jan13 | None | | None | | 2.0.1.2.3.3.9[SS+20d]; 2.0.1.2.3.3.12[FS] | 2.0.1.1.1.14.33.1.1[FS-20d] |
| 2.0.1.2.3.3.11 | Assemble MI Inject HV & Tail Bumper Pulsers (OBSOLETE) | Complete | 1d | 03Feb12 03Feb12 | 03Feb12 03Feb12 | None | | None | | 2.0.1.2.3.2.12[FS] | 2.0.1.2.3.4[FS] |
| 2.0.1.2.3.3.12 | RKB Tubes - Weld flanges and bellows and leak check | Complete | 21d | 01Jun12 29May13 | 11Jun12 10Jul12 | None | | None | | 2.0.1.2.3.3.3[FF+20d]; 2.0.1.2.3.3.3[SS+31d] | 2.0.1.2.3.3.13[FS]; 2.0.1.2.3.3.10[FS] |
| 2.0.1.2.3.3.13 | RKB Tubes - Store under vacuum | Complete | 6d | 11Jun12 29May13 | 11Jul12 18Jul12 | None | | None | | 2.0.1.2.3.3.12[FS] | 2.0.1.1.1.14.33.1.1[FS] |
| 2.0.1.2.3.4 | RR Ext/MI Inj Line Kicker Checkout/Test Pulsers into Dummy Load (OBSOLETE) | Complete | 1d | 06Feb12 06Feb12 | 06Feb12 06Feb12 | None | | None | | 2.0.1.2.3.3.11[FS] | |
| 2.0.1.2.3.5 | RR Ext/MI Inj Line Kick Inst Mags, Cbles Fluor Pip in Tunl, Term Connct & Tst Chk Sys (OBSOLETE) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | 2.0.1.2.3.3.7[FS] | 1.0.1.1.2.2.5.2[FF+10d]; 1.0.1.1.2.2.5.3[FF+10d] |
| 2.0.1.2.4 | RR Ext/MI Inj Kicker Power Supply System | Complete | 874d | 02Nov09 26Apr13 | 02Feb09 06Dec12 | None | | None | | | |
| 2.0.1.2.4.1 | RR Extraction Line Kicker Power Supply System Procurement | Complete | 874d | 02Nov09 26Apr13 | 02Feb09 25Sep12 | None | | None | | | |
| 2.0.1.2.4.1.1 | Prep Req & Award PO for RR Ext Line Kicker PS Thyratrons for 1 HV Pulser | Complete | 40d | 01Dec10 29Dec10 | 03Jan11 28Feb11 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.6.7[FS] | 2.0.1.2.4.1.2[FS+128d] |
| 2.0.1.2.4.1.2 | RR Extraction Line Kicker PS ReceiveThyratrons for 1 HV Pulser | Complete | 30d | 01Aug11 16Sep11 | 01Jul11 12Aug11 | None | | None | | 2.0.1.2.4.1.1[FS+128d] | 2.0.1.2.4.1.21[FS] |
| 2.0.1.2.4.1.5 | RR Extract Line Kicker PS Prep Req & Award PO for All Other Parts for 1 HV Pulser | Complete | 40d | 04Jan11 07Feb12 | 03Jan11 28Feb11 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.6.7[FS] | 2.0.1.2.4.1.6[FS+53d] |
| 2.0.1.2.4.1.6 | RR Extract Line Kicker PS Receive All Other Parts for 1 HV Pulsers | Complete | 50d | 23May11 13Feb12 | 01Jun11 10Aug11 | None | | None | | 2.0.1.2.4.1.5[FS+53d] | 2.0.1.2.4.1.21[FS] |
| 2.0.1.2.4.1.11 | RR Extraction Line Kicker PS Prep Req & Award PO for 12 PFL Frames | Complete | 40d | 22Jan10 09Feb10 | 15Feb10 09Apr10 | None | | None | | 1.0.1.2.5.1.2[FS]; 2.10.9.5[FS]; 2.0.4.4.1.4[FS] | 2.0.1.2.4.1.12[FS] |
| 2.0.1.2.4.1.12 | RR Extraction Line Kicker PS Receive 12 PFL Frames | Complete | 40d | 01Dec10 29Dec10 | 17May10 13Jul10 | None | | None | | 2.0.1.2.4.1.11[FS] | 2.0.1.2.4.2.3[FS] |
| 2.0.1.2.4.1.13 | RR Extraction Line Kicker Power Supply System Procure 2 Spare PFL Frames | Complete | 80d | 09Feb10 09Feb10 | 15Feb10 07Jun10 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.5.1.2[FS]; 2.0.4.4.1.4[FS] | 2.0.1.2.4.2.4[FS] |
| 2.0.1.2.4.1.14 | MI Inj/RR Extraction/Beam Abort Line Kicker Prep Req & Issue PO for Cable for Prototype | Complete | 40d | 02Nov09 26Feb10 | 02Feb09 27Mar09 | None | | None | | 1.0.1.2.7.2[FS+110d]; 2.10.9.5[FS]; 2.0.4.4.1.4[FS] | 2.0.1.2.4.1.15[FF+130d] |
| 2.0.1.2.4.1.15 | MI Injection/RR Extraction/Beam Abort Line Kicker Receive All Cable | Complete | 11d | 01Sep10 02Mar11 | 29Sep10 13Oct10 | None | | None | | 2.0.1.2.4.1.14[FF+130d] | 2.0.1.2.6.4[FS]; 2.0.1.2.4.2.3[FS] |
| 2.0.1.2.4.1.18 | MI Injection Kicker PS Procure Spare Cable (2 spools) | Complete | 51d | 02Nov09 26Feb10 | 02Feb09 13Apr09 | None | | None | | 1.0.1.2.1.3.1[FS]; 2.10.9.5[FS]; 2.0.4.4.1.4[FS] | 1.0.1.2.2.3.5[FS] |
| 2.0.1.2.4.1.19 | RR Extraction Line Kicker PS System Procure Spare Cable (2 Spools) | Complete | 51d | 02Nov09 26Feb10 | 01Oct09 14Dec09 | None | | None | | 2.0.4.3.22[FS]; 2.10.9.6[FS]; 1.0.1.2.1.3.1[FS] | 1.0.1.2.2.3.5[FS] |
| 2.0.1.2.4.1.20 | Beam Abort Kicker PS Procure Spare Cable (2 spools) | Complete | 51d | 02Nov09 26Feb10 | 02Feb09 13Apr09 | None | | None | | 1.0.1.2.1.3.1[FS]; 2.10.9.5[FS]; 2.0.4.4.1.4[FS] | 1.0.1.2.2.3.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.2.4.1.21 | RR Extract Line Kicker PS - Assemble 1 pulser (Incl controls) | Complete | 40d | 24Oct11 19Apr13 | 17Oct11 13Dec11 | None | | None | | 2.0.1.2.4.1.6[FS]; 2.0.1.2.4.1.2[FS] | 2.0.1.2.4.1.22[FS] |
| 2.0.1.2.4.1.22 | RR Extract Line Kicker PS - Install 1 pulser in MI-30 | Complete | 5d | 24Apr12 26Apr13 | 05Apr12 11Apr12 | None | | None | | 2.10.10.5[SS-20d]; 2.0.1.2.4.1.21[FS] | 2.0.4.3.16[FS] |
| 2.0.1.2.4.1.23 | Prep Req & Award PO for Parts for MI Inject HV & Tail Bumper Pulsers | Complete | 39d | 19Mar12 08Jan13 | 31May12 25Jul12 | None | | None | | 1.0.1.2.6.7[FS]; 2.10.9.6[FS]; 2.0.1.2.4.3.1[FS] | 2.0.1.2.4.1.24[FS] |
| 2.0.1.2.4.1.24 | Receive Parts for MI Inject HV & Tail Bumper Pulsers | Complete | 43d | 19Mar12 08Apr13 | 26Jul12 25Sep12 | None | | None | | 2.0.1.2.4.1.23[FS] | 2.0.1.2.4.2.7[FS] |
| 2.0.1.2.4.2 | RR Extraction Line Kicker Power Supply System Assembly | Complete | 553d | 16Feb11 26Apr13 | 23Sep10 06Dec12 | None | | None | | | |
| 2.0.1.2.4.2.3 | RR Extraction Kicker PS Wind 12 cables on PFL frames | Complete | 12d | 16Feb11 08Apr11 | 14Oct10 29Oct10 | None | | None | | 2.0.1.2.4.1.12[FS]; 2.0.1.2.4.1.15[FS] | 2.0.1.2.4.2.5[FS] |
| 2.0.1.2.4.2.4 | Extraction Line Kicker PS Wind Cable on 2 Spare PFL Frames | Complete | 2d | 01Apr11 08Apr11 | 23Sep10 24Sep10 | None | | None | | 2.0.1.2.4.1.13[FS] | 2.0.1.2.4.2.6[FS]; 2.0.1.2.6.5[FS] |
| 2.0.1.2.4.2.5 | RR Extraction Kicker PS Install 12 PFL Frames in MI-30 Bldg | Complete | 12d | 26Mar12 03Apr12 | 01May12 16May12 | None | | None | | 2.0.1.2.4.2.3[FS]; 2.10.10.5[FS] | 2.0.1.2.4.2.8[FS] |
| 2.0.1.2.4.2.6 | Extraction Line Kicker PS Install 2 Spare PFL Frames in MI-30 Bldg | Complete | 2d | 02Apr12 03Apr12 | 01May12 02May12 | None | | None | | 2.0.1.2.4.2.4[FS]; 2.10.10.5[FS] | 2.0.1.2.4.2.8[FS] |
| 2.0.1.2.4.2.7 | Assemble MI Inject HV & Tail Bumper Pulsers | Complete | 30d | 04Sep12 10Apr13 | 24Oct12 06Dec12 | None | | None | | 2.0.1.2.4.3.6[FS]; 2.0.1.2.4.1.24[FS] | 2.0.1.2.4.2.8[FS] |
| 2.0.1.2.4.2.8 | RR Ext/MI Inj Line Kicker Checkout/Test Pulsers into Dummy Load | Complete | 19d | 10Jul12 26Apr13 | 07Nov12 05Dec12 | None | | None | | 2.0.1.2.3.3.5[FS]; 2.0.1.2.4.2.7[FS]; 2.0.1.2.4.2.5[FS]; 2.0.1.2.4.2.6[FS] | 2.0.4.3.16[FS] |
| 2.0.1.2.4.3 | MI Bumper | Complete | 428d | 01Aug11 15Apr13 | 19Jul11 30May12 | None | | None | | | |
| 2.0.1.2.4.3.1 | Revise MI Injection Kicker Prototype Tail Bumper PS Design & Fab Revised Parts | Complete | 41d | 06Feb12 11Dec12 | 03Apr12 30May12 | None | | None | | 2.0.1.2.4.3.4[FS]; 1.0.1.2.7.4[FS] | 2.0.1.2.4.1.23[FS] |
| 2.0.1.2.4.3.2 | MI Injection Bumper PFN Procure Parts | Complete | 63d | 01Nov11 04Feb13 | 01Nov11 06Feb12 | None | | None | | 1.0.1.2.2.1.5[FS]; 1.0.1.2.4.2.3.2[FS]; 1.0.1.2.2.1.2[FS] | 1.0.1.2.4.2.3.4[FS] |
| 2.0.1.2.4.3.3 | Install MI Injection Bumper PFN in MI-30 | Complete | 7d | 01Mar13 15Apr13 | 01May12 09May12 | None | | None | | 2.10.10.5[FS]; 1.0.1.2.4.2.3.4[FS] | 2.0.4.3.16[FS] |
| 2.0.1.2.4.3.4 | MI Inj High Voltage Testing of Prototype Tail Bumper with Test Magnet | Complete | 31d | 19Mar12 05Mar13 | 20Feb12 02Apr12 | None | | None | | 1.0.1.2.5.3.4[FS]; 1.0.1.2.4.2.3.3[FS]; 1.0.1.2.4.2.3.2[FS]; 1.0.1.2.4.2.3.9[FS]; 1.0.1.2.5.3.3[FS]; 1.0.1.2.5.3.5[FS] | 2.0.1.2.4.3.1[FS]; 1.0.1.2.7.4[FS] |
| 2.0.1.2.4.3.5 | RR Inj Move Fluorinert Skid A to MI-14 for HV Testing RR Inj Pre Prod Kicker | Complete | 1d | 01Aug11 24Aug11 | 19Jul11 19Jul11 | None | | None | | 2.0.1.2.2.6.2[FS]; 2.0.1.2.1.2.7[FS]; 1.0.1.2.2.3.9[FS] | |
| 2.0.1.2.4.3.6 | MI Inj Resonant Charger Procure | Complete | 80d | 15Aug11 26Mar12 | 01Sep11 28Dec11 | None | | None | | 1.0.1.2.2.2.14[FS]; 2.10.9.7[FS] | 2.0.1.2.4.2.7[FS] |
| 2.0.1.2.5 | RKD Magnets | In Progress | 1049d | 01Sep09 01Nov13 | 24Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.5.1 | RKD Magnet Procurement | In Progress | 1029d | 30Sep09 01Nov13 | 24Feb09 01Nov13 | None | | None | | | |
| 2.0.1.2.5.1.1 | Procure 3 Beamtubes for RR Abort from TD Inventory | Complete | 1d | 30Sep09 26Feb10 | 24Feb09 24Feb09 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.6.8[FS]; 2.0.4.4.3.3[FS]; 1.0.1.2.1.2.3[FS] | 2.0.1.2.5.2.1[FS]; 2.0.1.2.5.2.3[FS]; 2.0.1.2.5.1.11[FF] |
| 2.0.1.2.5.1.2 | Prep Req & Award PO for Ferrites for 6 RKD magnets | Complete | 20d | 17Mar11 02May11 | 11Mar11 07Apr11 | None | | None | | 1.0.1.2.4.2.3.9[FS]; 1.0.1.2.4.1.1[FS]; 2.10.9.6[FS] | 2.0.1.2.5.1.3[FS+120d] |
| 2.0.1.2.5.1.3 | Receive RKD Ferrites | Complete | 20d | 19Jul11 30Mar12 | 15Nov11 14Dec11 | None | | None | | 2.0.1.2.5.1.2[FS+120d] | 2.0.1.2.5.2.1[FS] |
| 2.0.1.2.5.1.4 | Prep Req & Award PO for all other parts for 6 RKD magnets | Complete | 40d | 09May11 30Mar12 | 02May11 27Jun11 | None | | None | | 1.0.1.2.4.2.3.9[FS]; 2.10.9.6[FS] | 2.0.1.2.5.1.5[FS] |
| 2.0.1.2.5.1.5 | Receive all other RKD parts | Complete | 60d | 15Jul11 21Jun12 | 28Jun11 21Sep11 | None | | None | | 2.0.1.2.5.1.4[FS] | 2.0.1.2.5.1.12[FS]; 2.0.1.2.5.2.1[FS] |
| 2.0.1.2.5.1.6 | Beam Abort Kick Prep Req & Award PO for Parts & Flourinert for Cooling Skid E (OBSOLETE) | Complete | 53d | 01Oct09 01Oct09 | 27Apr09 22Jun09 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.4.1.3[FS]; 1.0.1.2.6.8[FS] | 2.0.1.2.5.1.7[FF+20d] |
| 2.0.1.2.5.1.7 | Beam Abort Kicker Receive Parts & Flourinert for Cooling Skid E (OBSOLETE) | Complete | 21d | 01Oct09 01Oct09 | 19Feb10 19Mar10 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.2.5.1.6[FF+20d] | 2.0.1.2.5.2.7[FS] |
| 2.0.1.2.5.1.8 | Beam Abort Kicker PS Prep Req & Award PO for 12 PFL Frames | Complete | 40d | 22Jan10 09Mar10 | 01Apr09 27May09 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.5.1.2[FS]; 2.0.4.4.1.5[FS] | 2.0.1.2.5.1.9[FS] |
| 2.0.1.2.5.1.9 | Beam Abort Kicker PS Receive 12 PFL Frames | Complete | 40d | 01Dec10 29Dec10 | 15Nov10 14Jan11 | None | | None | | 2.0.1.2.5.1.8[FS] | 2.0.1.2.6.4[FS] |
| 2.0.1.2.5.1.10 | Beam Abort Kicker Procure 2 Spare PFL Frames | Complete | 40d | 01Dec10 29Dec10 | 15Nov10 14Jan11 | None | | None | | 2.10.9.5[FS]; 1.0.1.2.5.1.2[FS]; 2.0.4.4.1.5[FS] | 2.0.1.2.6.5[FS]; 2.0.1.2.5.2.9[FS] |
| 2.0.1.2.5.1.11 | Procure 1 beam tube for RR abort from TD inventory | Complete | 1d | 15Sep10 16Sep10 | 02Aug10 02Aug10 | None | | None | | 2.0.1.2.5.1.1[FF] | 2.0.1.2.5.2.1[FS]; 2.0.1.2.5.2.3[FS] |
| 2.0.1.2.5.1.12 | SPS assignments | Planned | 1d | 01Nov13 01Nov13 | 01Nov13 01Nov13 | None | | None | | 2.0.1.2.5.1.5[FS]; 2.0.1.2.3.2.24[SS] | 2.0.4.3.21[FS] |
| 2.0.1.2.5.2 | Beam Abort Kicker Assembly & Checkout/Test | Complete | 952d | 01Sep09 17Jun13 | 25Feb09 02Nov12 | None | | None | | | |
| 2.0.1.2.5.2.1 | RKD magnets - Assemble magnets | Complete | 65d | 09Jan12 17Aug12 | 06Feb12 04May12 | None | | None | | 2.0.1.2.5.1.1[FS]; 2.0.1.2.5.1.3[FS]; 2.0.1.2.5.1.5[FS]; 2.0.1.2.5.1.11[FS] | 2.0.1.2.3.3.4[FS]; 2.0.1.2.5.2.6[SS+30d] |
| 2.0.1.2.5.2.2 | Beam Abort Kicker Assemble 1 Load | Complete | 20d | 14Feb11 14Feb11 | 09May11 06Jun11 | None | | None | | 2.0.1.2.1.1.4[FS]; 2.0.1.2.1.1.16[FS] | 2.0.1.2.5.2.11[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.2.5.2.3 | RR Abort Select 3 Ceramic Tubes & Cut to Length | Complete | 40d | 07Sep10 29Apr11 | 25Feb09 21Apr09 | None | | None | | 2.0.1.2.5.1.1[FS]; 2.0.1.2.5.1.11[FS] | 2.0.1.2.5.2.4[FS] |
| 2.0.1.2.5.2.4 | RR Abort Kicker Magnet Kovar Braze 3 Ceramic Beam Tubes (Obsolete) | Complete | 1d | 29Apr11 29Apr11 | 29Sep10 12Aug11 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.2.5.2.3[FS] | |
| 2.0.1.2.5.2.5 | RKD tubes coat | Complete | 30d | 11Jan12 01Jun12 | 01Dec11 18Jan12 | None | | None | | 2.0.1.2.3.2.23[FF+10d] | 2.0.1.2.5.2.13[SS+20d] |
| 2.0.1.2.5.2.6 | RKD Magnets - Attach Cable Adaptors | Complete | 10d | 04Sep12 17Sep12 | 22Oct12 02Nov12 | None | | None | | 2.0.1.2.5.2.1[SS+30d]; 2.0.1.1.1.14.32.3[FS] | 2.0.1.1.1.14.32.5[FS] |
| 2.0.1.2.5.2.7 | Assemble Fluorinert Cooling Skid for RR Abort Kicker Syst E, Install in MI-39 | Complete | 40d | 25Oct10 28Feb12 | 17May10 13Jul10 | None | | None | | 2.0.1.2.5.1.7[FS]; 2.0.4.4.1.5[FS] | 2.0.1.2.5.2.9[FS]; 2.0.1.2.5.2.11[FS] |
| 2.0.1.2.5.2.8 | RKD Magnet - LV Testing | Complete | 40d | 01Feb12 27Aug12 | 02Apr12 25May12 | None | | None | | | 2.0.1.2.5.2.9[SS+20d] |
| 2.0.1.2.5.2.9 | RKD Magnet - HV Testing | Complete | 30d | 13Feb12 10Oct12 | 30Apr12 11Jun12 | None | | None | | 2.0.1.2.6.7[FS]; 2.0.1.2.5.1.10[FS]; 2.0.1.2.5.2.7[FS]; 2.0.1.2.5.2.8[SS+20d]; 2.0.1.2.6.3[FS]; 2.0.1.2.6.6[FS] | 2.0.1.2.5.2.11[FS]; 2.0.1.1.1.14.32.3[FS] |
| 2.0.1.2.5.2.10 | Beam Abort Kicker Life Testing in PS-4 or MI-39 (OBSOLETE) | Complete | 1d | 01Sep09 01Sep09 | 01Sep09 01Sep09 | None | | None | | | |
| 2.0.1.2.5.2.11 | Beam Abort Kicker Install & Checkout/Test Pulser into Dummy Load | Complete | 5d | 10Sep12 17Jun13 | 12Jun12 18Jun12 | None | | None | | 2.0.1.2.5.2.9[FS]; 2.0.1.2.5.2.7[FS]; 2.0.1.2.5.2.2[FS] | |
| 2.0.1.2.5.2.12 | BA Abort Kikr Inst Mag, Cbles & Fluor Pipe in Tunnel, Term, Connct & Tst, Chkout/Test | Complete | 1d | 22Nov11 22Nov11 | 22Nov11 22Nov11 | None | | None | | 2.0.1.1.1.14.19[FF] | 1.0.1.1.2.2.5.4[FF+10d] |
| 2.0.1.2.5.2.13 | RKD Tubes - Weld flanges and bellows and leak check | Complete | 22d | 12Feb12 19Jul12 | 01Mar12 30Mar12 | None | | None | | 2.0.1.2.5.2.5[SS+20d] | 2.0.1.2.5.2.14[FS] |
| 2.0.1.2.5.2.14 | RKD Tubes - Store under vacuum | Complete | 21d | 14Feb12 08Nov12 | 02Apr12 30Apr12 | None | | None | | 2.0.1.2.5.2.13[FS] | 2.0.1.1.1.14.33.2.3[SS]; 2.0.1.1.1.14.32.3[SS] |
| 2.0.1.2.6 | Beam Abort Kicker Power Supplies | Complete | 652d | 01Sep10 08Apr13 | 03Jan11 13Dec11 | None | | None | | | |
| 2.0.1.2.6.1 | Beam Abort Kicker Prep Req & Award PO for Parts for 1 Pulser | Complete | 40d | 01Apr11 03Feb12 | 03Jan11 28Feb11 | None | | None | | 1.0.1.2.6.7[FS]; 2.10.9.5[FS] | 2.0.1.2.6.2[FS+45d] |
| 2.0.1.2.6.2 | Beam Abort Kicker Receive Parts for 1 Pulser | Complete | 50d | 23May11 03Jan13 | 01Jun11 10Aug11 | None | | None | | 2.0.1.2.6.1[FS+45d] | 2.0.1.2.6.3[FS] |
| 2.0.1.2.6.3 | Beam Abort Kicker Assemble 1 HV Pulser (Incl Controls) | Complete | 40d | 06Sep11 08Apr13 | 17Oct11 13Dec11 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.2.6.2[FS]; 2.0.4.4.1.5[FF+20d] | 2.0.1.2.5.2.9[FS] |
| 2.0.1.2.6.4 | Beam Abort Kicker Wind Cables on 12 PFL Frames | Complete | 35d | 18Apr11 27May11 | 04Apr11 20May11 | None | | None | | 2.0.1.2.5.1.9[FS]; 2.0.1.2.4.1.15[FS] | 2.0.1.2.6.6[FS]; 2.0.1.2.6.5[FS] |
| 2.0.1.2.6.5 | Beam Abort Kicker Wind Cables on 2 Spare PFL Frames | Complete | 7d | 01Aug11 31Aug11 | 23May11 01Jun11 | None | | None | | 2.0.1.2.5.1.10[FS]; 2.0.1.2.4.2.4[FS]; 2.0.1.2.6.4[FS] | 2.0.1.2.6.7[FS] |
| 2.0.1.2.6.6 | Beam Abort Kicker Install 12 PFL Frames in MI-39 Bldg | Complete | 12d | 01Sep10 03Sep10 | 03Feb11 18Feb11 | None | | None | | 2.0.1.2.6.4[FS]; 2.0.4.4.1.5[FF+20d] | 2.0.1.2.5.2.9[FS] |
| 2.0.1.2.6.7 | Beam Abort Kicker Install 2 Spare PFL Frames in MI-39 Bldg | Complete | 2d | 01Sep10 03Sep10 | 19Jan11 20Jan11 | None | | None | | 2.0.1.2.6.5[FS] | 2.0.1.2.5.2.9[FS] |
| 2.0.1.2.7 | Oversight of TD Kicker Magnet Construction | Complete | 825d | 02Feb09 10May12 | 02Feb09 10May12 | None | | None | | | |
| 2.0.1.2.7.1 | FY09 Oversight of TD Magnet Construction - Recycler Kickers | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.0.1.2.7.2[FS] |
| 2.0.1.2.7.2 | FY10 Oversight of TD Magnet Construction - Recycler Kickers | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | None | | None | | 2.0.1.2.7.1[FS]; 2.10.9.7[FS] | 2.0.1.2.7.3[FS] |
| 2.0.1.2.7.3 | FY11-FY12 Oversight of TD Magnet Construction - Recycler Kickers | Complete | 404d | 01Oct10 10May12 | 01Oct10 10May12 | None | | None | | 2.10.9.8[FS]; 2.0.1.2.7.2[FS] | 2.0.4.3.21[FS] |
| 2.0.1.2.8 | Recycler Kicker System Milestones | Complete | 890d | 01Dec09 17Jun13 | 01Sep09 28Jan13 | None | | None | | | |
| 2.0.1.2.8.1 | Gap Clearing/RR Inj Kicker Magnet Design Complete | Complete | 0 | 01Dec09 01Dec09 | 01Sep09 01Sep09 | None | | None | | 2.0.4.4.3.5[FS] | 2.0.1.2.2.1.7[FS]; 2.0.1.2.2.1.9[FS]; 2.0.4.4.3.12[FS]; 2.0.1.2.2.1.11[FS]; 2.0.1.2.1.1.11[FS] |
| 2.0.1.2.8.2 | RR Extraction MI Injection Line Kicker Checkout/Test Complete | Complete | 0 | 17May13 17May13 | 28Jan13 28Jan13 | None | | None | | 2.0.1.1.1.14.33.2.5[FS] | 2.0.1.2.8.5[FS] |
| 2.0.1.2.8.3 | RR Beam Abort Kicker Checkout/Test Complete | Complete | 0 | 17Jun13 17Jun13 | 12Oct12 12Oct12 | None | | None | | 2.0.1.1.1.14.32.5[FS] | 2.0.1.2.8.5[FS] |
| 2.0.1.2.8.4 | RR Injection & Gap Clearing Magnets & Fluorinert Piping in Tunnel Checkout/Test Complete | Complete | 0 | 19Apr13 19Apr13 | 19Nov12 19Nov12 | None | | None | | 2.0.1.1.1.14.35.5[FS] | 2.0.1.2.8.5[FS] |
| 2.0.1.2.8.5 | RR All Kicker Systems Ready for Beam | Complete | 0 | 17Jun13 17Jun13 | 10Dec12 10Dec12 | None | | None | | 2.0.1.2.8.4[FS]; 2.0.1.2.8.2[FS]; 2.0.1.2.8.3[FS] | 2.0.4.3.16[FS] |
| 2.0.1.3 | Recycler Instrumentation | Complete | 1047d | 01Apr09 30May13 | 01Apr09 27Sep12 | None | | None | | | |
| 2.0.1.3.1 | BPMs | Complete | 877d | 20Jul09 16Jan13 | 08Jan10 14Aug12 | None | | None | | | |
| 2.0.1.3.1.1 | Procure BPM Cables/Connectors | Complete | 100d | 20Jul09 04Dec09 | 08Jan10 28May10 | None | | None | | 1.0.1.3.1.2[FS]; 2.10.9.5[FS]; 2.10.9.7[FS] | 2.0.1.3.4.5[FS]; 2.0.1.3.1.5[FS]; 2.0.1.3.1.3[FS] |
| 2.0.1.3.1.2 | Procure BPM Transition Boards | Complete | 197d | 15Jan11 28Aug12 | 11Jan11 18Oct11 | None | | None | | 2.10.9.5[FS]; 1.0.1.3.1.2[FS]; 1.0.1.3.3.1[FS]; 2.10.9.7[FS] | 2.0.1.3.4.5[FS]; 2.0.1.3.1.3[FS-44d] |
| 2.0.1.3.1.3 | Test BPM Transition Boards | Complete | 65d | 15Jun12 16Jan13 | 14May12 14Aug12 | None | | None | | 2.0.1.3.1.2[FS-44d]; 2.0.1.3.4.5[FF]; 2.0.1.3.1.1[FS] | 2.0.1.3.4.6[FS] |
| 2.0.1.3.1.4 | Recycler Instrumentation - Install Cables & Boards (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.3.1.5 | Respool BPM cables | Complete | 43d | 01Mar12 29Jun12 | 01Mar12 30Apr12 | None | | None | | 2.0.1.3.1.1[FS] | 2.0.1.1.1.14.37.5[SS+20d] |
| 2.0.1.3.2 | DCCT/Toroids | Complete | 1047d | 01Apr09 30May13 | 01Apr09 31May12 | None | | None | | | |
| 2.0.1.3.2.1 | DCCT | Complete | 1047d | 01Apr09 30May13 | 01Apr09 14May12 | None | | None | | | |
| 2.0.1.3.2.1.1 | Procure DCCT, Cables & Connectors (obsolete) | Complete | 1d | 01Apr09 01Apr09 | 01Apr09 01Apr09 | None | | None | | 2.10.9.5[FS]; 2.10.9.7[FS] | 2.0.1.3.2.1.2[FS] |
| 2.0.1.3.2.1.2 | Recycler Instrumentation - Install & Test DCCT (obsolete) | Complete | 1d | 02Apr09 02Apr09 | 02Apr09 02Apr09 | None | | None | | 2.0.1.3.2.1.1[FS] | |
| 2.0.1.3.2.1.3 | Core Configuration Determination | Complete | 365d | 01May09 12Oct10 | 01May09 08Feb10 | None | | None | | | |
| 2.0.1.3.2.1.3.1 | Prepare requisition and PO for drive cores | Complete | 8d | 01May09 12May09 | 01May09 12May09 | None | | None | | 2.10.9.7[FS]; 2.10.9.5[FS] | 2.0.1.3.2.1.3.2[FS] |
| 2.0.1.3.2.1.3.2 | Receive drive cores | Complete | 35d | 13May09 15May09 | 13May09 01Jul09 | None | | None | | 2.0.1.3.2.1.3.1[FS] | 2.0.1.3.2.1.3.3[FS] |
| 2.0.1.3.2.1.3.3 | Assemble and test drive cores | Complete | 25d | 15Jun09 15Oct09 | 04Jan10 08Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.0.1.3.2.1.3.2[FS] | 2.0.1.3.2.1.3.4[FS]; 2.0.1.3.2.1.5.2[FS]; 2.0.1.3.2.1.5.1[FS]; 2.0.1.3.2.1.5.3[FS]; 2.0.1.3.2.1.5.4[FS] |
| 2.0.1.3.2.1.3.4 | Finalize detector core and winding configuration | Complete | 8d | 01Oct10 12Oct10 | 22Oct09 02Nov09 | None | | None | | 2.0.1.3.2.1.3.3[FS] | 2.0.1.3.2.1.4.1[FS]; 2.0.1.3.4.3[FS] |
| 2.0.1.3.2.1.4 | Detector Housing | Complete | 515d | 15Jun10 29Jun12 | 15Jun10 05Jan11 | None | | None | | | |
| 2.0.1.3.2.1.4.1 | Design vacuum assembly, shield, and stand | Complete | 60d | 15Jun10 04Jan12 | 15Jun10 08Sep10 | None | | None | | 2.0.1.3.2.1.3.4[FS]; 2.10.9.7[FS]; 2.10.9.5[FS]; 2.10.10.4[FS-5d] | 2.0.1.3.2.1.4.2[FS]; 2.0.1.3.2.1.4.4[FS] |
| 2.0.1.3.2.1.4.2 | Procure parts for detector chassis | Complete | 20d | 15Jun11 11Jun12 | 09Sep10 06Oct10 | None | | None | | 2.0.1.3.2.1.4.1[FS] | 2.0.1.3.2.1.4.3[FS] |
| 2.0.1.3.2.1.4.3 | Assemble detector chassis | Complete | 60d | 01Jun12 29Jun12 | 07Oct10 05Jan11 | None | | None | | 2.0.1.3.2.1.4.2[FS] | 2.0.1.3.4.3[FS] |
| 2.0.1.3.2.1.4.4 | Prepare requisition and PO for magnetic shielding | Complete | 5d | 20Jun11 24Jun11 | 09Sep10 15Sep10 | None | | None | | 2.0.1.3.2.1.4.1[FS] | 2.0.1.3.2.1.4.5[FS] |
| 2.0.1.3.2.1.4.5 | Receive magnetic shielding | Complete | 60d | 04Jan12 11Jan12 | 16Sep10 10Dec10 | None | | None | | 2.0.1.3.2.1.4.4[FS] | 2.0.1.3.4.3[FS] |
| 2.0.1.3.2.1.5 | Signal Processing Hardware Procurements | Complete | 347d | 01Jun11 15Oct12 | 05Nov09 07Jan10 | None | | None | | | |
| 2.0.1.3.2.1.5.1 | Procure printed circuit boards | Complete | 40d | 01Jun11 15Oct12 | 05Nov09 07Jan10 | None | | None | | 2.10.9.7[FS]; 2.10.9.5[FS]; 2.0.1.3.2.1.3.3[FS]; 2.10.10.4[FS+10d] | 2.0.1.3.2.1.6.2[FS] |
| 2.0.1.3.2.1.5.2 | Procure PCB parts and connectors | Complete | 40d | 01Jun12 15Oct12 | 05Nov09 07Jan10 | None | | None | | 2.0.1.3.2.1.3.3[FS]; 2.10.9.7[FS]; 2.10.10.4[FS+10d]; 2.10.9.5[FS] | 2.0.1.3.2.1.6.2[FS] |
| 2.0.1.3.2.1.5.3 | Procure VME crates and boards | Complete | 40d | 04Jan12 15Oct12 | 05Nov09 07Jan10 | None | | None | | 2.10.9.7[FS]; 2.10.9.5[FS]; 2.0.1.3.2.1.3.3[FS]; 2.10.10.4[FS+10d] | 2.0.1.3.2.1.6.2[FS] |
| 2.0.1.3.2.1.5.4 | Procure cables | Complete | 40d | 01Jun12 28Aug12 | 05Nov09 07Jan10 | None | | None | | 2.10.10.4[FS+10d]; 2.0.1.3.2.1.3.3[FS]; 2.10.9.5[FS]; 2.10.9.7[FS] | |
| 2.0.1.3.2.1.6 | DCCT Installation | Complete | 394d | 02Nov11 30May13 | 02Nov11 14May12 | None | | None | | | |
| 2.0.1.3.2.1.6.1 | Install cables (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.3.2.1.6.2 | Install signal processing hardware | Complete | 10d | 01May13 30May13 | 01May12 14May12 | None | | None | | 2.0.1.3.2.1.5.1[FS]; 2.0.1.3.2.1.5.3[FS]; 2.0.1.3.2.1.5.2[FS]; 2.10.10.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.3.2.1.6.3 | Install beamline hardware (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.1.3.2.2 | Recycler Instrumentation - Relocate Toroids to Injection Line (OBSOLETE) | Complete | 1d | 21Nov11 21Nov11 | 21Nov11 21Nov11 | None | | None | | 2.0.1.1.1.14.5[FS] | 2.0.1.1.1.14.19[FS] |
| 2.0.1.3.2.3 | Recycler Instrumentation - Relocate Toroids to Extraction Line (OBSOLETE) | Complete | 1d | 21Nov11 21Nov11 | 21Nov11 21Nov11 | None | | None | | 2.0.1.1.1.14.11[FS] | 2.0.1.1.1.14.21[FS]; 2.0.1.1.1.14.19[FS] |
| 2.0.1.3.2.4 | Multwire Chambers | Complete | 270d | 04Jan12 30Jan13 | 03Jan12 30Mar12 | None | | None | | | |
| 2.0.1.3.2.4.1 | Procure and fabricate multiwire cans | Complete | 41d | 04Jan12 15Mar12 | 03Jan12 29Feb12 | None | | None | | 2.10.10.11[FS] | 2.0.1.3.2.4.5[SS+20d] |
| 2.0.1.3.2.4.2 | Procure and fabricate multiwire lids | Complete | 41d | 04Jan12 15Mar12 | 03Jan12 29Feb12 | None | | None | | 2.10.10.11[FS] | 2.0.1.3.2.4.5[SS+20d] |
| 2.0.1.3.2.4.3 | Procure and fabricate internal parts | Complete | 41d | 04Jan12 12Nov12 | 03Jan12 29Feb12 | None | | None | | 2.10.10.11[FS] | 2.0.1.3.2.4.5[SS+20d] |
| 2.0.1.3.2.4.4 | Procure and fabricate motor drive assemblies | Complete | 41d | 04Jan12 17Dec12 | 03Jan12 29Feb12 | None | | None | | 2.10.10.11[FS] | 2.0.1.3.2.4.5[SS+20d] |
| 2.0.1.3.2.4.5 | Assemble can and wireplane system | Complete | 43d | 10May12 30Jan13 | 01Feb12 30Mar12 | None | | None | | 2.0.1.3.2.4.3[SS+20d]; 2.0.1.3.2.4.1[SS+20d]; 2.0.1.3.2.4.2[SS+20d]; 2.0.1.3.2.4.4[SS+20d] | 2.0.1.1.1.14.30.3[FS] |
| 2.0.1.3.2.5 | Procure parts for 2 new toroids | Complete | 41d | 04Jan12 17Dec12 | 03Jan12 29Feb12 | None | | None | | 2.10.10.11[FS] | 2.0.1.3.2.6[SS+20d] |
| 2.0.1.3.2.6 | Assemble toroids | Complete | 50d | 02Jan13 19Apr13 | 01Feb12 31May12 | None | | None | | 2.0.1.3.2.5[SS+20d] | 2.0.1.1.1.14.30.3[FS] |
| 2.0.1.3.3 | Dampers | Complete | 961d | 03Aug09 30May13 | 01Sep09 27Sep12 | None | | None | | | |
| 2.0.1.3.3.1 | Longitudinal | Complete | 829d | 15Feb10 30May13 | 01Feb10 19Sep12 | None | | None | | | |
| 2.0.1.3.3.1.1 | Procure Longitudinal Dampers | Complete | 25d | 01Mar13 30May13 | 06May11 03Nov11 | None | | None | | 2.10.9.5[FS]; 1.0.1.3.3.1[FS]; 2.0.1.3.3.1.4[FS]; 1.0.1.3.2.1.1[FS] | 2.0.1.3.3.1.2[FS] |
| 2.0.1.3.3.1.2 | Test Longitudinal Dampers | Complete | 12d | 09Apr13 30May13 | 04Nov11 21Nov11 | None | | None | | 2.0.1.3.3.1.1[FS] | 2.0.1.3.3.1.3[FS] |
| 2.0.1.3.3.1.3 | Recycler Instrumentation - Install Longitudinal Dampers | Complete | 15d | 09Apr13 30May13 | 29Aug12 19Sep12 | None | | None | | 2.0.1.3.3.1.2[FS]; 2.10.10.5[FS]; 2.0.1.1.1.14.35.1[SS]; 2.0.1.3.3.1.4[FS] | 2.0.4.3.16[FS] |
| 2.0.1.3.3.1.4 | Final design for longitudinal kicker relocation | Complete | 232d | 15Feb10 28Oct10 | 01Feb10 30Dec10 | None | | None | | | 2.0.1.3.3.1.1[FS]; 2.0.1.3.3.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.1.3.3.2 | Transverse | Complete | 961d | 03Aug09 30May13 | 01Sep09 27Sep12 | None | | None | | | |
| 2.0.1.3.3.2.1 | Procure Transverse Dampers (incl Move 240V outlet) (OBSOLETE) | Complete | 1d | 03Aug09 03Aug09 | 01Sep09 01Sep09 | None | | None | | | |
| 2.0.1.3.3.2.2 | Test Transverse Dampers | Complete | 11d | 01Feb10 26Feb10 | 24Feb10 10Mar10 | None | | None | | 2.0.1.3.3.2.5[FS] | 2.0.1.3.3.2.3[FS] |
| 2.0.1.3.3.2.3 | Recycler Instrumentation - Install Transverse Dampers | Complete | 7d | 09Apr13 30May13 | 01May12 09May12 | None | | None | | 2.0.1.3.3.2.2[FS]; 2.10.10.5[FS] | 2.0.4.3.16[FS] |
| 2.0.1.3.3.2.4 | Transverse Dampers- prepare req and award PO for amplifiers | Complete | 20d | 03Aug09 20Aug09 | 01Sep09 29Sep09 | None | | None | | 2.10.9.7[FS]; 2.10.9.5[FS] | 2.0.1.3.3.2.5[FS] |
| 2.0.1.3.3.2.5 | Transverse Dampers - vendor production and delivery of amplifiers. | Complete | 125d | 21Aug09 12Oct09 | 30Sep09 01Apr10 | None | | None | | 2.0.1.3.3.2.4[FS] | 2.0.1.3.3.2.2[FS] |
| 2.0.1.3.3.2.6 | Electrical controls and infrastructure at MI-60 | Complete | 5d | 01Feb13 30May13 | 21Sep12 27Sep12 | None | | None | | 2.10.10.5[FS+100d] | 2.0.4.3.16[FS] |
| 2.0.1.3.4 | Recycler Instrumentation Milestones | Complete | 91d | 28Aug12 10Jan13 | 05Jan11 14Aug12 | None | | None | | | |
| 2.0.1.3.4.3 | RR DCCT Ready for Installation | Complete | 0 | 02Jan13 02Jan13 | 05Jan11 05Jan11 | None | | None | | 2.0.1.3.2.1.4.5[FS]; 2.0.1.3.2.1.4.3[FS]; 2.0.1.3.2.1.3.4[FS] | 2.0.1.1.1.14.38.1[FS] |
| 2.0.1.3.4.5 | RR BPM System Procurement Complete | Complete | 0 | 28Aug12 28Aug12 | 18Oct11 18Oct11 | None | | None | | 2.0.1.3.1.2[FS]; 2.0.1.3.1.1[FS] | 2.0.1.3.1.3[FF] |
| 2.0.1.3.4.6 | RR BPM Transition Boards Ready for Installation | Complete | 0 | 10Jan13 10Jan13 | 14Aug12 14Aug12 | None | | None | | 2.0.1.3.1.3[FS] | |
| 2.0.2 | Main Injector Upgrades | Complete | 1103d | 08Dec08 30Apr13 | 02Feb09 19Dec12 | None | | None | | | |
| 2.0.2.1 | MI Modifications | Complete | 1086d | 06Jan09 30Apr13 | 02Feb09 19Dec12 | None | | None | | | |
| 2.0.2.1.1 | Upgrade V Quad Bus w/New Transformer | Complete | 776d | 06Jan09 07Feb12 | 02Feb09 11Jul12 | None | | None | | | |
| 2.0.2.1.1.1 | MI Mods Prep Req & Award PO for Transformer | Complete | 40d | 06Jan09 26Jan09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.7[FS]; 2.10.9.5[FS] | 2.0.2.1.1.2[FS] |
| 2.0.2.1.1.2 | MI Mods Vendor Fab & Receive Transformer | Complete | 227d | 02Feb09 22Apr09 | 30Mar09 23Feb10 | None | | None | | 2.0.2.1.1.1[FS] | 2.0.2.1.1.3[FS] |
| 2.0.2.1.1.3 | MI Mods Build New Power Supply Components | Complete | 11d | 23Apr09 12May09 | 24Feb10 10Mar10 | None | | None | | 2.0.2.1.1.2[FS] | 2.0.2.1.1.4[FS] |
| 2.0.2.1.1.4 | MI Mods Install New Power Supply Components | Complete | 11d | 01Feb12 03Feb12 | 01May12 15May12 | None | | None | | 2.0.2.1.1.3[FS]; 2.10.10.5[FS] | 2.0.2.1.1.5[FS] |
| 2.0.2.1.1.5 | MI Mods Commission New Power Supply Components | Complete | 39d | 06Feb12 07Feb12 | 16May12 11Jul12 | None | | None | | 2.0.2.1.1.4[FS] | 2.0.2.1.4.1[FF] |
| 2.0.2.1.2 | MI-14 Communications Infrastructure | Complete | 814d | 03Aug09 25Oct12 | 02Feb09 25Apr12 | None | | None | | | |
| 2.0.2.1.2.1 | MI-14 Prep Req & Submit PO for Equip Racks & Cable | Complete | 40d | 03Aug09 28Sep09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.5[FS] | 2.0.2.1.2.2[FS] |
| 2.0.2.1.2.2 | MI-14 Receive Equip Racks & Cable | Complete | 35d | 29Sep09 06Jan10 | 30Mar09 15May09 | None | | None | | 2.0.2.1.2.1[FS] | 2.0.2.1.2.3[FS] |
| 2.0.2.1.2.3 | MI-14 Install Equip Racks & Connect Electrical Power | Complete | 5d | 25Mar10 14May10 | 15Feb10 19Feb10 | None | | None | | 2.0.4.4.1.4[FS]; 2.0.2.1.2.2[FS] | 2.0.2.1.2.4[FS] |
| 2.0.2.1.2.4 | MI-14 Pull & Terminate Communications Cables | Complete | 4d | 24Nov09 21Jun10 | 22Feb10 25Feb10 | None | | None | | 2.0.2.1.2.3[FS] | 2.0.2.1.2.6[FS] |
| 2.0.2.1.2.5 | MI-14 Recover, Build & Test Controls Hardware | Complete | 20d | 15Mar12 08Aug12 | 15Mar12 11Apr12 | None | | None | | 2.10.10.11[FS+65d] | 2.0.2.1.2.6[FS] |
| 2.0.2.1.2.6 | MI-14 Install & Test Controls Hardware | Complete | 10d | 07May12 25Oct12 | 12Apr12 25Apr12 | None | | None | | 2.0.2.1.2.5[FS]; 2.0.2.1.2.4[FS] | 2.0.4.3.15[FS]; 2.0.2.1.5.6[FS] |
| 2.0.2.1.3 | MI-39 Communications Infrastructure | Complete | 873d | 03Aug09 25Jan13 | 02Feb09 25Jul12 | None | | None | | | |
| 2.0.2.1.3.1 | MI-39 Prep Req & Submit PO for Equip Racks & Cable | Complete | 40d | 03Aug09 28Sep09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.5[FS] | 2.0.2.1.3.2[FS] |
| 2.0.2.1.3.2 | MI-39 Receive Equip Racks & Cable | Complete | 35d | 28Sep09 06Jan10 | 30Mar09 15May09 | None | | None | | 2.0.2.1.3.1[FS] | 2.0.2.1.3.3[FS] |
| 2.0.2.1.3.3 | MI-39 Install Equip Racks & Connect Electrical Power | Complete | 5d | 22Jan10 10Mar10 | 12Feb10 18Feb10 | None | | None | | 2.0.2.1.3.2[FS]; 2.0.4.4.1.5[FS] | 2.0.2.1.3.4[FS] |
| 2.0.2.1.3.4 | MI-39 Pull & Terminate Communications Cables | Complete | 4d | 24Nov09 21Jun10 | 19Feb10 24Feb10 | None | | None | | 2.0.2.1.3.3[FS] | 2.0.2.1.3.6[FS] |
| 2.0.2.1.3.5 | MI-39 Recover, Build & Test Controls Hardware | Complete | 20d | 06Aug12 21Jan13 | 13Jun12 11Jul12 | None | | None | | 2.10.10.11[FS+65d]; 2.10.10.5[FS+30d] | 2.0.2.1.3.6[FS] |
| 2.0.2.1.3.6 | MI-39 Install & Test Controls Hardware | Complete | 10d | 12Nov12 25Jan13 | 12Jul12 25Jul12 | None | | None | | 2.0.2.1.3.4[FS]; 2.0.2.1.3.5[FS] | 2.0.4.3.15[FS]; 2.0.1.1.1.11.3[FS]; 2.0.2.1.5.7[FS] |
| 2.0.2.1.4 | MI Modifications Milestones | Complete | 1d | 01May12 01May12 | 11Jul12 11Jul12 | None | | None | | | |
| 2.0.2.1.4.1 | MI Vertical Quad Bus Upgrade Complete | Complete | 0 | 01May12 01May12 | 11Jul12 11Jul12 | None | | None | | 2.0.2.1.1.5[FF] | 2.0.4.3.15[FS] |
| 2.0.2.1.5 | MI Machine Timing | Complete | 219d | 15Jun12 30Apr13 | 26Apr12 19Dec12 | None | | None | | | |
| 2.0.2.1.5.1 | Design, Modify, Install & Test Beam Swtch Sum Box | Complete | 17d | 15Jun12 30Apr13 | 01Jun12 25Jun12 | None | | None | | 2.10.10.5[FS+22d] | 2.0.2.1.5.2[FS]; 1.0.2.1.6.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.2.1.5.2 | Design, Modify, Install & Test MI beam sync clock | Complete | 7d | 15Jun12 31Jul12 | 26Jun12 05Jul12 | None | | None | | 2.0.2.1.5.1[FS] | 1.0.2.1.6.3[FS]; 2.0.2.1.5.3[FS] |
| 2.0.2.1.5.3 | Design, Modify, Install & Test RR beam sync clock | Complete | 7d | 15Jun12 25Jul12 | 06Jul12 16Jul12 | None | | None | | 2.0.2.1.5.2[FS] | 2.0.2.1.5.4[FS]; 1.0.2.1.6.3[FS] |
| 2.0.2.1.5.4 | Design, Modify, Install & Test TClock | Complete | 7d | 17Sep12 27Feb13 | 17Jul12 25Jul12 | None | | None | | 2.0.2.1.5.3[FS] | 1.0.2.1.6.3[FS]; 2.0.2.1.5.8[FS] |
| 2.0.2.1.5.5 | Design, Modify, Install & Test MI low level RF system | Complete | 30d | 15Oct12 21Feb13 | 01May12 12Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.2.1.6.1[FS] | 1.0.2.1.6.3[FS] |
| 2.0.2.1.5.6 | Design & Install Injection Line Controls | Complete | 20d | 14Aug12 20Dec12 | 26Apr12 23May12 | None | | None | | 2.0.2.1.2.6[FS]; 2.0.4.3.12[FS] | 2.0.1.1.1.11.1[FS]; 2.0.4.3.15[FS] |
| 2.0.2.1.5.7 | Design & Install Extraction Line Controls | Complete | 20d | 14Nov12 14Dec12 | 26Jul12 22Aug12 | None | | None | | 2.0.2.1.3.6[FS]; 2.0.4.3.12[FS] | 2.0.1.1.1.11.2[FS]; 2.0.4.3.15[FS] |
| 2.0.2.1.5.8 | Define & install inputs to RR beam permit system | Complete | 34d | 17Oct12 25Feb13 | 26Jul12 12Sep12 | None | | None | | 2.0.2.1.5.4[FS] | 2.0.2.1.5.10[FS]; 1.0.2.1.6.3[FS] |
| 2.0.2.1.5.9 | Modify Timeline Generator | Complete | 20d | 20Sep12 21Dec12 | 07Sep12 04Oct12 | None | | None | | 2.10.10.5[FS+90d] | 2.0.4.3.15[FS] |
| 2.0.2.1.5.10 | Configure & install kicker timing controls | Complete | 20d | 04Dec12 30Jan13 | 20Nov12 19Dec12 | None | | None | | 2.0.2.1.5.8[FS] | 2.0.4.3.15[FS] |
| 2.0.2.1.6 | Modify & Install RR LLRF System | Complete | 473d | 08Jun11 25Apr13 | 23May11 02Oct12 | None | | None | | | |
| 2.0.2.1.6.1 | RR Low Level RF System Recover & Test Decommissioned Hardware from Tevatron | Complete | 29d | 05Oct11 15May12 | 17Jan12 24Feb12 | None | | None | | 2.0.2.1.6.5[FS]; 2.10.10.11[FS+45d] | 2.0.2.1.6.2[FS]; 2.0.2.1.5.5[FS] |
| 2.0.2.1.6.2 | RR Low Level RF System Install | Complete | 34d | 16May12 29Jun12 | 01May12 18Jun12 | None | | None | | 2.0.2.1.6.1[FS]; 2.10.10.5[FS] | 2.0.2.1.6.3[FS] |
| 2.0.2.1.6.3 | RR Low Level RF System Test | Complete | 49d | 09Jul12 26Feb13 | 19Jun12 27Aug12 | None | | None | | 2.0.2.1.6.2[FS] | 2.0.2.1.6.4[FS]; 2.10.10.6[FS]; 2.0.4.3.15[FS]; 2.0.1.1.5.1[FS] |
| 2.0.2.1.6.4 | RR Low Level RF System Startup | Complete | 25d | 28Feb13 25Apr13 | 28Aug12 02Oct12 | None | | None | | 2.0.2.1.6.3[FS] | 2.0.4.3.17[FS] |
| 2.0.2.1.6.5 | Des & Modify RR Low Level RF System Review | Complete | 2d | 08Jun11 08Jun11 | 23May11 24May11 | None | | None | | 1.0.2.1.1.2.4[FS] | 2.0.2.1.6.1[FS] |
| 2.0.2.2 | MI RF Cavities | Complete | 1096d | 08Dec08 19Apr13 | 02Feb09 07Dec12 | None | | None | | | |
| 2.0.2.2.1 | MI RF Cavities Bus Bar | Complete | 85d | 02Feb09 01Jun09 | 02Feb09 06Apr09 | None | | None | | | |
| 2.0.2.2.1.1 | MI RF Cavities Bus Bar Raw Material Procure | Complete | 20d | 02Feb09 27Mar09 | 02Feb09 27Feb09 | None | | None | | 2.10.9.5[FS]; 1.0.2.2.1.1.2[FS] | 2.0.2.2.1.2[FS] |
| 2.0.2.2.1.2 | MI RF Cavities Bus Bar Fab & Install (descoped) | Complete | 1d | 01Jun09 01Jun09 | 06Apr09 06Apr09 | None | | None | | 2.0.2.2.1.1[FS] | 2.0.2.2.5.1[FF] |
| 2.0.2.2.2 | MI RF Cavities Equip Gallery Install/Modification | Complete | 916d | 08Dec08 31Jul12 | 02Feb09 14Feb12 | None | | None | | | |
| 2.0.2.2.2.1 | MI RF Cavities Equip Purchase/Fabrication | Complete | 916d | 08Dec08 31Jul12 | 02Feb09 14Feb12 | None | | None | | | |
| 2.0.2.2.2.1.1 | MI RF Cavities Series Tube Modulators | Complete | 355d | 04Jan10 27May11 | 06Oct09 24Aug10 | None | | None | | | |
| 2.0.2.2.2.1.1.1 | Prep Req & Award PO for Parts for Series Tube Modulators | Complete | 20d | 04Jan10 30Apr10 | 06Oct09 02Nov09 | None | | None | | 2.0.4.3.22[FS]; 2.10.9.7[FS]; 2.10.9.5[FS]; 2.10.9.8[FF] | 2.0.2.2.2.1.1.2[FS] |
| 2.0.2.2.2.1.1.2 | Receive Parts for Series Tube Modulators | Complete | 80d | 21Jan10 18Jun10 | 03Nov09 03Mar10 | None | | None | | 2.0.2.2.2.1.1.1[FS] | 2.0.2.2.2.1.1.3[FS] |
| 2.0.2.2.2.1.1.3 | Assemble Series Tube Modulators | Complete | 60d | 21Jun10 03Feb11 | 17May10 10Aug10 | None | | None | | 2.0.2.2.2.1.1.2[FS] | 2.0.2.2.2.1.1.4[FS] |
| 2.0.2.2.2.1.1.4 | Electrical Testing of Completed Series Tube Modulators | Complete | 10d | 01Mar11 27May11 | 11Aug10 24Aug10 | None | | None | | 2.0.2.2.2.1.1.3[FS] | 2.0.2.2.3.3[FS]; 2.0.2.2.5.3[FF] |
| 2.0.2.2.2.1.2 | MI RF Cavities Power Amplifier | Complete | 468d | 12Nov09 23Sep11 | 06Oct09 20Jul10 | None | | None | | | |
| 2.0.2.2.2.1.2.1 | Prep Req & Award PO for Parts for MI RF Cavities Power Amplifier | Complete | 20d | 12Nov09 28Jan10 | 06Oct09 02Nov09 | None | | None | | 2.0.4.3.22[FS]; 2.10.9.7[FS]; 2.10.9.5[FS]; 2.10.9.8[FF] | 2.0.2.2.2.1.2.2[FS] |
| 2.0.2.2.2.1.2.2 | Receive Parts for MI RF Cavities Power Amplifier | Complete | 80d | 29Jan10 11Jun10 | 03Nov09 03Mar10 | None | | None | | 2.0.2.2.2.1.2.1[FS] | 2.0.2.2.2.1.2.3[FS] |
| 2.0.2.2.2.1.2.3 | Assembly of MI RF Cavities Power Amplifier | Complete | 40d | 14Jun10 20Jul11 | 10May10 06Jul10 | None | | None | | 2.0.2.2.2.1.2.2[FS] | 2.0.2.2.2.1.2.4[FS] |
| 2.0.2.2.2.1.2.4 | Electrical Testing of Completed MI RF Cavities Power Amplifier | Complete | 10d | 21Jul11 23Sep11 | 07Jul10 20Jul10 | None | | None | | 2.0.2.2.2.1.2.3[FS] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.2.1.3 | MI RF Cavities Controls | Complete | 365d | 17Feb11 27Jul12 | 01Nov10 31Jan12 | None | | None | | | |
| 2.0.2.2.2.1.3.1 | MI RF Cavity Prep Req & Award PO for Parts for Controls Rack | Complete | 20d | 17Feb11 12May11 | 01Nov10 30Nov10 | None | | None | | 2.10.9.9[FS]; 2.0.4.3.22[FS]; 2.10.9.5[FS]; 2.10.9.8[FF]; 2.10.9.7[FS] | 2.0.2.2.2.1.3.2[FS] |
| 2.0.2.2.2.1.3.2 | MI RF Cavity Receive Parts for Control Rack | Complete | 80d | 08Mar11 29Jul11 | 01Mar11 21Jun11 | None | | None | | 2.0.2.2.2.1.3.1[FS] | 2.0.2.2.2.1.3.3[FS] |
| 2.0.2.2.2.1.3.3 | MI RF Cavity Assemble Control Rack | Complete | 40d | 08Aug11 22Jun12 | 14Nov11 17Jan12 | None | | None | | 2.0.2.2.2.1.3.2[FS]; 1.0.1.1.3.2.2[FS] | 2.0.2.2.2.1.3.4[FS] |
| 2.0.2.2.2.1.3.4 | MI RF Cavity Electrical Testing of Completed Control Rack | Complete | 10d | 24Jul12 27Jul12 | 18Jan12 31Jan12 | None | | None | | 2.0.2.2.2.1.3.3[FS] | 2.0.2.2.3.6[FS]; 2.0.2.2.3.9[FS] |
| 2.0.2.2.2.1.4 | MI RF Cavities Solid State Amplifiers | Complete | 318d | 17Feb11 21May12 | 01Nov10 14Feb12 | None | | None | | | |
| 2.0.2.2.2.1.4.1 | Prep Req & Award PO for Parts for MIF RF Cavities Solid State Amplifiers | Complete | 20d | 17Feb11 22Apr11 | 01Nov10 30Nov10 | None | | None | | 2.10.9.9[FS]; 2.0.4.3.22[FS]; 2.10.9.5[FS]; 2.10.9.8[FF]; 2.10.9.7[FS] | 2.0.2.2.2.1.4.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.2.2.2.1.4.2 | Receive Parts for MI RF Cavities Solid State Amplifiers | Complete | 80d | 21Mar11 22Apr11 | 01Mar11 21Jun11 | None | | None | | 2.0.2.2.2.1.4.1[FS] | 2.0.2.2.2.1.4.3[FS] |
| 2.0.2.2.2.1.4.3 | Assemble MI RF Cavities Solid State Amplifiers | Complete | 50d | 04Apr12 04May12 | 14Nov11 31Jan12 | None | | None | | 2.0.2.2.2.1.4.2[FS]; 1.0.1.1.3.2.2[FS] | 2.0.2.2.2.1.4.4[FS] |
| 2.0.2.2.2.1.4.4 | Electrical Testing of Completed MI RF Cavities Solid State Amplifiers | Complete | 10d | 07May12 21May12 | 01Feb12 14Feb12 | None | | None | | 2.0.2.2.2.1.4.3[FS] | |
| 2.0.2.2.2.1.5 | MI RF Cavities Software Programming | Complete | 125d | 24Jan11 31Jul12 | 03Jan11 28Jun11 | None | | None | | 2.10.9.5[FS] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.2.1.6 | MI RF Cavities Ferrite Bias Supplies | Complete | 729d | 08Dec08 31Oct11 | 02Feb09 13Oct10 | None | | None | | | |
| 2.0.2.2.2.1.6.1 | Prep Req & Award PO for Parts for Ferrite Bias Supply | Complete | 40d | 08Dec08 30Apr09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.5[FS] | 2.0.2.2.2.1.6.2[FS+40d] |
| 2.0.2.2.2.1.6.2 | Receive Parts for Ferrite Bias Supply | Complete | 125d | 22May09 23Oct09 | 26May09 18Nov09 | None | | None | | 2.0.2.2.2.1.6.1[FS+40d] | 2.0.2.2.2.1.6.3[FS] |
| 2.0.2.2.2.1.6.3 | Assembly of Ferrite Bias Supply | Complete | 125d | 01Oct09 25Feb11 | 05Apr10 29Sep10 | None | | None | | 2.0.4.3.22[FS]; 2.0.2.2.2.1.6.2[FS] | 2.0.2.2.2.1.6.4[FS] |
| 2.0.2.2.2.1.6.4 | Electrical Testing of Completed Ferrite Bias Supply | Complete | 10d | 28Feb11 31Oct11 | 30Sep10 13Oct10 | None | | None | | 2.0.2.2.2.1.6.3[FS] | 2.0.2.2.3.3[FS]; 2.0.2.2.5.2[FF] |
| 2.0.2.2.3 | MI RF Cavities Cavity Installation | Complete | 275d | 02Nov11 06Dec12 | 02Nov11 07Dec12 | None | | None | | | |
| 2.0.2.2.3.1 | MI RF Cavities Cabling (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 1.0.2.1.3.1[FF] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.3.2 | MI RF Move Cavities 4 & 15 (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.3.3 | MI RF Install (OBSOLETE) | Complete | 1d | 30Nov11 30Nov11 | 30Nov11 30Nov11 | None | | None | | 1.0.2.2.4.1[FS]; 1.0.2.2.2.1[FS]; 2.0.2.2.5.3[FS]; 2.0.2.2.2.1.6.4[FS]; 2.0.2.2.5.2[FS]; 2.0.2.2.2.1.5[FS]; 2.0.2.2.2.1.1.4[FS]; 2.0.2.2.2.1.2.4[FS]; 2.0.2.2.3.2[FS]; 2.0.2.2.3.1[FS] | 2.0.2.2.3.4[FS] |
| 2.0.2.2.3.4 | MI RF Align Cavities (OBSOLETE) | Complete | 1d | 30Nov11 30Nov11 | 01Dec11 01Dec11 | None | | None | | 2.0.2.2.3.3[FS] | |
| 2.0.2.2.3.5 | MI RF Cavities Final System Test | Complete | 2d | 03Dec12 06Dec12 | 01May12 02May12 | None | | None | | 2.10.10.5[FS]; 1.0.2.2.2.2.1[FS] | 2.0.2.2.5.4[FF] |
| 2.0.2.2.3.6 | Install MI RF 15A | Complete | 5d | 27Jul12 31Jul12 | 05Jul12 11Jul12 | None | | None | | 2.0.2.2.2.1.3.4[FS]; 2.0.1.1.1.14.36.2[FS] | 1.0.2.2.5[FS] |
| 2.0.2.2.3.7 | Off Project RF work | Complete | 65d | 02Jul12 25Oct12 | 19Jul12 18Oct12 | None | | None | | 1.0.2.2.5[FS] | 2.0.2.2.3.8[FS] |
| 2.0.2.2.3.8 | Reconstitute MI RF vacuum | Complete | 10d | 17Sep12 21Sep12 | 26Nov12 07Dec12 | None | | None | | 2.0.2.2.3.7[FS] | 1.0.1.1.1.5[FS]; 2.0.4.3.15[FS]; 2.0.1.1.1.14.35.1[FS] |
| 2.0.2.2.3.9 | Install MI RF 4A | Complete | 5d | 01Jun12 15Jun12 | 05Jul12 11Jul12 | None | | None | | 2.0.2.2.2.1.3.4[FS]; 2.0.1.1.1.14.36.2[FS] | 1.0.2.2.5[FS] |
| 2.0.2.2.4 | MI RF Cavity Cooling System Mods Installation | Complete | 475d | 31May11 19Apr13 | 02Jun11 17Jul12 | None | | None | | | |
| 2.0.2.2.4.1 | Final Design RF Cavity & PS Connections | Complete | 40d | 31May11 23Mar12 | 02Jun11 28Jul11 | None | | None | | 1.0.2.2.1.3.3[FS]; 1.0.2.2.1.3.2[FS] | 2.0.2.2.4.7[FS] |
| 2.0.2.2.4.2 | Procure Power Supply Piping, Hoses & Ftgs MI-60 Gallery | Complete | 132d | 09Jan12 30May12 | 05Dec11 13Jun12 | None | | None | | 2.10.9.6[FS+180d]; 2.0.2.2.4.7[FS] | 2.0.2.2.4.3[FS] |
| 2.0.2.2.4.3 | Install Power Supply Connections MI-60 Gallery | Complete | 6d | 01Apr13 19Apr13 | 27Jun12 05Jul12 | None | | None | | 2.0.2.2.4.2[FS]; 2.10.10.5[FS] | 2.0.2.2.4.6[FS] |
| 2.0.2.2.4.4 | Procure Cavity Piping, Hoses & Ftgs Q600 Area | Complete | 80d | 09Jan12 30May12 | 05Dec11 13Jun12 | None | | None | | 2.10.9.6[FS+180d]; 2.0.2.2.4.7[FS] | 2.0.1.1.1.14.36.2[FF-5d] |
| 2.0.2.2.4.5 | Install Cavity Connections Q600 Area (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | |
| 2.0.2.2.4.6 | Test & Troubleshoot Cavity Cooling Systems | Complete | 8d | 16Jul12 10Aug12 | 06Jul12 17Jul12 | None | | None | | 2.0.2.2.4.3[FS] | 2.0.2.2.5.5[FS] |
| 2.0.2.2.4.7 | MI RF Cavity Cooling System Engineering Design Review | Complete | 15d | 03Oct11 23Nov11 | 03Oct11 21Oct11 | None | | None | | 2.0.2.2.4.1[FS] | 2.0.2.2.4.4[FS]; 2.0.2.2.4.2[FS] |
| 2.0.2.2.5 | MI RF Cavities Milestones | Complete | 977d | 01Jun09 19Apr13 | 06Apr09 16Nov12 | None | | None | | | |
| 2.0.2.2.5.1 | MI RF Cavities Bus Bar Fabrication & Installation Complete | Complete | 0 | 01Jun09 01Jun09 | 06Apr09 06Apr09 | None | | None | | 2.0.2.2.1.2[FF] | 2.10.10.4[FS] |
| 2.0.2.2.5.2 | MI RF Cavities Fabrication of Ferrite Bias Supplies Complete | Complete | 0 | 25Feb11 25Feb11 | 13Oct10 13Oct10 | None | | None | | 2.0.2.2.2.1.6.4[FF] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.5.3 | MI RF Cavities Fabrication of Modulators Complete | Complete | 0 | 25Feb11 25Feb11 | 24Aug10 24Aug10 | None | | None | | 2.0.2.2.2.1.1.4[FF] | 2.0.2.2.3.3[FS] |
| 2.0.2.2.5.4 | MI RF Cavities (2) Installation & Testing Complete | Complete | 0 | 06Dec12 06Dec12 | 16Nov12 16Nov12 | None | | None | | 2.0.2.2.3.5[FF] | 2.0.4.3.15[FS] |
| 2.0.2.2.5.5 | MI LCW System Mods Complete | Complete | 0 | 19Apr13 19Apr13 | 03Aug12 03Aug12 | None | | None | | 2.0.2.2.4.6[FS] | 2.0.4.3.15[FS] |
| 2.0.3 | NuMI Upgrades | Complete | 1146d | 03Nov08 29May13 | 02Feb09 28Jan13 | None | | None | | | |
| 2.0.3.1 | NuMI Primary Proton Beam | Complete | 1081d | 03Nov08 26Feb13 | 02Feb09 14Jan13 | None | | None | | | |
| 2.0.3.1.1 | NuMI Extraction Kicker | Complete | 394d | 01Aug11 26Feb13 | 06Sep11 14Jan13 | None | | None | | | |
| 2.0.3.1.1.1 | Upgraded Charging Power Supply | Complete | 369d | 06Sep11 26Feb13 | 06Sep11 14Jan13 | None | | None | | | |
| 2.0.3.1.1.1.1 | Design for Charging PS Upgrades | Complete | 20d | 06Sep11 20Jun12 | 06Sep11 03Oct11 | None | | None | | 2.0.4.3.22[FS]; 2.10.10.4[FS]; 2.10.9.10[FS-60d]; 2.10.9.8[FS] | 2.0.3.1.1.1.2[FS]; 2.0.3.1.1.2.1[FS]; 1.0.3.1.5.1[FS] |
| 2.0.3.1.1.1.2 | NuMI Extract Kicker Charging PS Upgrades Procure | Complete | 120d | 01Nov11 13Aug12 | 23Nov11 17May12 | None | | None | | 2.10.9.6[FS]; 2.0.3.1.1.1.1[FS]; 1.0.3.1.5.1[FS] | 2.0.3.1.1.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.1.1.1.3 | NuMI Extract Kicker Charging PS Upgrades Installation | Complete | 30d | 06Aug12 15Nov12 | 01Oct12 09Nov12 | None | | None | | 2.10.10.5[FS+60d]; 2.0.3.1.1.1.2[FS] | 2.0.3.1.1.1.4[FS]; 2.0.3.1.1.2.3[FS] |
| 2.0.3.1.1.1.4 | NuMI Extract Kicker Charging PS Upgrades Testing | Complete | 30d | 15Oct12 26Feb13 | 28Nov12 14Jan13 | None | | None | | 2.0.3.1.1.1.3[FS]; 2.0.3.1.1.2.3[FS] | 2.0.3.1.5.1[FS] |
| 2.0.3.1.1.2 | NuMI Extract Kicker Heat Exchanger Upgrades | Complete | 231d | 01Aug11 29Jun12 | 04Oct11 27Nov12 | None | | None | | | |
| 2.0.3.1.1.2.1 | Final Design Upgrade for Fluorinert to Water Heat Exchanger | Complete | 10d | 01Aug11 01May12 | 04Oct11 17Oct11 | None | | None | | 1.0.3.1.5.1[FS]; 2.0.3.1.1.1.1[FS] | 2.0.3.1.1.2.2[FS] |
| 2.0.3.1.1.2.2 | NuMI Extract Kicker Procure Upgrade for Fluorinert to Water Heat Exchanger | Complete | 60d | 01Aug11 15Jun12 | 18Oct11 18Jan12 | None | | None | | 2.10.9.6[FS]; 2.0.3.1.1.2.1[FS] | 2.0.3.1.1.2.3[FS] |
| 2.0.3.1.1.2.3 | NuMI Extract Kicker Install Upgrade for Fluorinert to Water Heat Exchanger | Complete | 10d | 26Jun12 29Jun12 | 12Nov12 27Nov12 | None | | None | | 2.0.3.1.1.1.3[FS]; 2.0.3.1.1.2.2[FS]; 2.10.10.5[FS] | 2.0.3.1.1.1.4[FS] |
| 2.0.3.1.2 | NuMI Dipole Power Supply | Complete | 456d | 03Nov08 27Aug10 | 02Feb09 11May10 | None | | None | | | |
| 2.0.3.1.2.1 | NuMI Procure BuLB System | Complete | 20d | 03Nov08 19Mar10 | 02Feb09 27Feb09 | None | | None | | 2.10.9.5[FS] | 2.0.3.1.2.2[FS] |
| 2.0.3.1.2.2 | NuMI Implement & Test (BuLB) Regulation Systs for 6 Major PS | Complete | 60d | 28Dec09 27Aug10 | 17Feb10 11May10 | None | | None | | 2.0.3.1.2.1[FS]; 2.0.4.3.22[FS]; 2.10.10.4[FS] | 2.10.10.6[FS] |
| 2.0.3.1.2.3 | NuMI PS Changes for Improved Cycle Time | Complete | 30d | 03Nov08 27Aug10 | 02Feb09 13Mar09 | None | | None | | 2.10.10.9[FS-20d]; 2.10.9.5[FS] | 2.0.3.1.5.2[FS] |
| 2.0.3.1.3 | 3Q120 Quadrupoles | Complete | 919d | 03Nov08 02Jul12 | 02Feb09 15Jun12 | None | | None | | | |
| 2.0.3.1.3.1 | Prep Req & Award PO for 5 Spang 75KW Power Supplies & Regulation Unit Parts | Complete | 40d | 03Nov08 30Jun09 | 02Feb09 27Mar09 | None | | None | | 2.10.9.5[FS] | 2.0.3.1.3.2[FS] |
| 2.0.3.1.3.2 | Vendor Fab & Receive 5 Spang 75KW Power Supplies & Regulation Unit Parts | Complete | 200d | 01Jul09 30Dec09 | 30Mar09 14Jan10 | None | | None | | 2.0.3.1.3.1[FS] | 2.0.3.1.3.10[FS] |
| 2.0.3.1.3.3 | Fabricate Spang Regulation Units | Complete | 25d | 01Jul09 31Aug09 | 26Apr10 28May10 | None | | None | | | 2.0.3.1.3.10[FS] |
| 2.0.3.1.3.4 | Prep Req & Order 3Q120 Quad Cables | Complete | 40d | 01Aug11 01Aug11 | 12Aug11 07Oct11 | None | | None | | 2.10.10.5[SS-80d]; 2.10.9.6[FS] | 2.0.3.1.3.5[FS] |
| 2.0.3.1.3.5 | Receive 3Q120 Quad Cables | Complete | 13d | 01Aug11 01Aug11 | 10Oct11 26Oct11 | None | | None | | 2.0.3.1.3.4[FS] | 2.0.3.1.3.6[FS] |
| 2.0.3.1.3.6 | Install & Terminate 3Q120 Quad Cables | Complete | 23d | 01Aug11 02Jul12 | 03Jan12 03Feb12 | None | | None | | 2.0.3.1.3.5[FS]; 1.0.3.1.2.2.3[FS] | 2.0.3.1.3.18.2[FS] |
| 2.0.3.1.3.9 | 3Q120 Quads Install 5 Recovered Magnets (OBSOLETE) | Complete | 1d | 08Nov11 08Nov11 | 08Nov11 08Nov11 | None | | None | | 2.0.3.1.3.13[FS]; 2.0.3.1.3.16[FS]; 2.0.3.1.3.17[FS] | 2.0.3.1.3.10[FS]; 2.0.3.1.3.11[FS] |
| 2.0.3.1.3.10 | 3Q120 Quads Hook-up & Checkout/Test for 5 New PS (OBSOLETE) | Complete | 1d | 09Nov11 09Nov11 | 09Nov11 09Nov11 | None | | None | | 2.0.3.1.3.9[FS]; 2.0.3.1.3.2[FS]; 2.0.3.1.3.3[FS] | 2.0.3.1.3.11[FS] |
| 2.0.3.1.3.11 | 3Q120 Quads Reconnect Water (OBSOLETE) | Complete | 1d | 10Nov11 10Nov11 | 10Nov11 10Nov11 | None | | None | | 2.0.3.1.3.9[FS]; 2.0.3.1.3.10[FS] | |
| 2.0.3.1.3.12 | Test 3Q120 Quads to be Recovered (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 2.0.1.1.1.14.18[FS] | 2.0.3.1.3.15[FS]; 2.0.3.1.3.13[FS] |
| 2.0.3.1.3.13 | Recover A1 Line 3Q120 Quads (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 2.0.3.1.3.12[FS] | 2.0.3.1.3.9[FS]; 2.0.3.1.3.17[FS] |
| 2.0.3.1.3.14 | 3Q120 Quads Disconnect Water (OBSOLETE) | Complete | 1d | 02Nov11 02Nov11 | 02Nov11 02Nov11 | None | | None | | 1.0.3.1.2.2.3[FS] | 2.0.3.1.3.15[FS] |
| 2.0.3.1.3.15 | Disconnect Cables for 5 Quads to be Replaced (OBSOLETE) | Complete | 1d | 03Nov11 03Nov11 | 03Nov11 03Nov11 | None | | None | | 2.0.3.1.3.12[FS]; 2.0.3.1.3.14[FS] | 2.0.3.1.3.16[FS] |
| 2.0.3.1.3.16 | Bleed up Vacuum & Disconnect Flanges for Component Replacement (OBSOLETE) | Complete | 1d | 04Nov11 04Nov11 | 04Nov11 04Nov11 | None | | None | | 2.0.3.1.3.15[FS] | 2.0.3.1.3.17[FS]; 2.0.3.1.3.9[FS] |
| 2.0.3.1.3.17 | 3Q120 Quads: Remove 5 Old Magnets (OBSOLETE) | Complete | 1d | 07Nov11 07Nov11 | 07Nov11 07Nov11 | None | | None | | 2.0.3.1.3.16[FS]; 2.0.3.1.3.13[FS] | 2.0.3.1.3.9[FS] |
| 2.0.3.1.3.18 | NUMI Quad Installation | Complete | 25d | 07May12 11Jun12 | 22May12 15Jun12 | None | | None | | | |
| 2.0.3.1.3.18.1 | Install Q113 - 114 and Q120 | Complete | 10d | 07May12 01Jun12 | 22May12 05Jun12 | None | | None | | 1.0.3.1.2.2.7[FS]; 1.0.3.1.2.2.9[FS] | 2.0.3.1.3.18.2[FS]; 1.0.3.1.2.2.10[FS]; 1.0.3.1.2.2.11[FS] |
| 2.0.3.1.3.18.2 | Install Q111 - 112 | Complete | 5d | 22May12 11Jun12 | 11Jun12 15Jun12 | None | | None | | 2.0.3.1.3.6[FS]; 2.0.3.1.3.18.1[FS]; 1.0.3.1.2.2.10[FS] | |
| 2.0.3.1.4 | Upgrade Primary Beam Transport Profile Monitors | Complete | 768d | 28Dec09 17Jan13 | 04May09 02Jul12 | None | | None | | | |
| 2.0.3.1.4.1 | Iterate Profile Monitor Upgrade Final Design | Complete | 60d | 28Dec09 28Jan11 | 04May09 28Jul09 | None | | None | | 1.0.3.1.4.1[FS] | 1.0.3.1.4.2[FS] |
| 2.0.3.1.4.3 | Procure Parts for Profile Monitors Upgrade | Complete | 80d | 15Mar10 23Mar12 | 17May10 08Sep10 | None | | None | | 2.10.9.5[FS]; 1.0.3.1.5.3[FS] | 2.0.3.1.4.13[FS] |
| 2.0.3.1.4.13 | Assembly of Foils on Ceramic Boards | Complete | 30d | 03Jan11 25Nov12 | 09Sep10 20Oct10 | None | | None | | 2.0.3.1.4.3[FS] | 2.0.3.1.4.14[FS] |
| 2.0.3.1.4.14 | Assembly of Detectors | Complete | 30d | 03Jan11 03Dec12 | 27Apr11 08Jun11 | None | | None | | 2.0.3.1.4.13[FS] | 2.0.3.1.4.15[FS] |
| 2.0.3.1.4.15 | Modify Motion Control from DC to AC | Complete | 15d | 03Jan11 14Sep12 | 09Jun11 29Jun11 | None | | None | | 2.0.3.1.4.14[FS] | 2.0.3.1.4.16[FS] |
| 2.0.3.1.4.16 | Vacuum Leak Check & Bake Out | Complete | 40d | 03Jan11 04Dec12 | 30Jun11 25Aug11 | None | | None | | 2.0.3.1.4.15[FS] | 2.0.3.1.4.17[FS] |
| 2.0.3.1.4.17 | Alignment Referencing | Complete | 10d | 03Jan11 07Dec12 | 26Aug11 09Sep11 | None | | None | | 2.0.3.1.4.16[FS] | 2.0.3.1.4.18[FS] |
| 2.0.3.1.4.18 | NuMI Stub profile Monitor Installation | Complete | 15d | 03Jan11 17Dec12 | 07Mar12 27Mar12 | None | | None | | 2.10.10.5[FS+60d]; 2.0.3.1.4.17[FS] | 2.0.3.1.4.19[FS]; 2.0.3.1.4.20[FS] |
| 2.0.3.1.4.19 | Pretarget profile Monitor Installation | Complete | 15d | 03Jan11 10Jan13 | 28Mar12 17Apr12 | None | | None | | 2.0.3.1.4.18[FS] | 2.0.3.1.4.21[FS] |
| 2.0.3.1.4.20 | NuMI Stub Rough Alignment | Complete | 10d | 03Jan11 19Dec12 | 07May12 18May12 | None | | None | | 2.0.3.1.4.18[FS] | 2.0.3.1.4.22[FS]; 2.0.3.1.4.21[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.1.4.21 | Pretarget Rough Alignment | Complete | 10d | 03Jan11 15Jan13 | 21May12 04Jun12 | None | | None | | 2.0.3.1.4.19[FS]; 2.0.3.1.4.20[FS] | 2.0.3.1.4.23[FS] |
| 2.0.3.1.4.22 | NuMI Stub Vacuum Hookup & Leak Check | Complete | 10d | 03Jan11 11Jan13 | 21May12 04Jun12 | None | | None | | 2.0.3.1.4.20[FS] | 2.0.3.1.4.24[FS]; 2.0.3.1.4.23[FS] |
| 2.0.3.1.4.23 | Pretarget Vacuum Hookup & Leak Check | Complete | 10d | 03Jan11 17Jan13 | 05Jun12 18Jun12 | None | | None | | 2.0.3.1.4.21[FS]; 2.0.3.1.4.22[FS] | 2.0.3.1.4.25[FS] |
| 2.0.3.1.4.24 | NuMI Stub Final Alignment (OBSOLETE) | Complete | 10d | 03Jan11 30Nov11 | 05Jun12 18Jun12 | None | | None | | 2.0.3.1.4.22[FS] | 2.0.3.1.4.25[FS] |
| 2.0.3.1.4.25 | Pretarget Final Alignment (OBSOLETE) | Complete | 10d | 03Jan11 30Nov11 | 19Jun12 02Jul12 | None | | None | | 2.0.3.1.4.24[FS]; 2.0.3.1.4.23[FS] | |
| 2.0.3.1.5 | NuMI Primary Proton Beam Milestones | Complete | 1d | 26Feb13 26Feb13 | 14Jan13 14Jan13 | None | | None | | | |
| 2.0.3.1.5.1 | NuMI Charging PS Upgrades Testing Complete | Complete | 0 | 26Feb13 26Feb13 | 14Jan13 14Jan13 | None | | None | | 2.0.3.1.1.1.4[FS] | 2.0.3.1.5.2[FS]; 2.10.10.6[FS] |
| 2.0.3.1.5.2 | NuMI Primary Beamline Ready for Faster Cycle Time | Complete | 0 | 26Feb13 26Feb13 | 14Jan13 14Jan13 | None | | None | | 1.0.3.1.2.2.11[FS]; 2.0.3.1.5.1[FS]; 2.0.3.1.2.3[FS] | 2.10.10.6[FS] |
| 2.0.3.2 | NuMI Target Hall Technical Components | Complete | 795d | 01Apr10 29May13 | 01Feb10 15Jan13 | None | | None | | | |
| 2.0.3.2.1 | ME Target, Carrier & Baffle | Complete | 795d | 01Apr10 29May13 | 20Apr10 15Jan13 | None | | None | | | |
| 2.0.3.2.1.1 | Medium Energy Target | Complete | 555d | 19May10 01Aug12 | 20Apr10 01Aug12 | None | | None | | | |
| 2.0.3.2.1.1.1 | Final Design ME Target | Complete | 40d | 18Apr11 01Feb12 | 03Dec10 02Feb11 | None | | None | | 1.0.3.2.1.1.5[FS] | 2.0.3.2.1.6[FS] |
| 2.0.3.2.1.1.2 | Write Accord w/IHEP for ME Target | Complete | 52d | 19May10 14Jan11 | 20Apr10 01Jul10 | None | | None | | 1.0.3.2.5.1[FS] | 2.0.3.2.4.7[FS] |
| 2.0.3.2.1.1.3 | Construct ME Target at IHEP (OBSOLETE) | Complete | 1d | 01Aug12 01Aug12 | 01Aug12 01Aug12 | None | | None | | 2.0.3.2.1.1.5[FS]; 2.0.3.2.1.6[FS] | 2.10.10.8[FS] |
| 2.0.3.2.1.1.4 | Inspection & Testing (at Fermilab) ME Target | Complete | 23d | 10May12 13Jun12 | 21May12 21Jun12 | None | | None | | 2.0.3.2.1.1.7[FS]; 2.0.3.2.1.1.8[FS] | 2.0.3.2.1.4[FS] |
| 2.0.3.2.1.1.5 | Write accord w/IHEP for ME target construction (Part II) | Complete | 52d | 30Aug11 15Jun12 | 16May11 28Jul11 | None | | None | | | 2.0.3.2.1.1.3[FS] |
| 2.0.3.2.1.1.6 | Write accord with RAL for ME target construction | Complete | 1d | 01Aug11 01Aug11 | 01Aug11 01Aug11 | None | | None | | 2.10.9.9[FS] | 2.0.3.2.1.1.7[FS]; 2.0.3.2.1.1.8[FS] |
| 2.0.3.2.1.1.7 | Construct ME target at RAL | Complete | 103d | 02Aug11 10May12 | 02Aug11 29Dec11 | None | | None | | 2.0.3.2.1.1.6[FS] | 2.0.3.2.1.1.4[FS] |
| 2.0.3.2.1.1.8 | Procure downstream windows (Brush-Wellman) | Complete | 64d | 02Aug11 30Nov11 | 02Aug11 31Oct11 | None | | None | | 2.0.3.2.1.1.6[FS] | 2.0.3.2.1.1.4[FS] |
| 2.0.3.2.1.2 | Target Carrier | Complete | 451d | 15Sep10 29Jun12 | 15Oct10 03Aug12 | None | | None | | | |
| 2.0.3.2.1.2.1 | Final Design of New Carrier | Complete | 40d | 03Jan11 14Feb11 | 15Oct10 13Dec10 | None | | None | | 1.0.3.2.1.2.2[FS] | 1.0.3.2.5.3[FS] |
| 2.0.3.2.1.2.2 | Prep Req & Award POs for Target Carrier Parts | Complete | 30d | 26Oct11 15Feb12 | 25Apr11 06Jun11 | None | | None | | 1.0.3.2.5.10[FS]; 2.10.9.6[FS] | 2.0.3.2.1.2.3[FS] |
| 2.0.3.2.1.2.3 | Receive Parts & Assemble Target Carrier | Complete | 100d | 17Jan12 29Jun12 | 15Feb12 05Jul12 | None | | None | | 2.0.3.2.1.2.2[FS] | 2.0.3.2.1.2.4[FS]; 2.0.4.3.21[FS] |
| 2.0.3.2.1.2.4 | Target Carrier trouble-shooting | Complete | 20d | 01Jun12 29Jun12 | 09Jul12 03Aug12 | None | | None | | 2.0.3.2.1.2.3[FS]; 2.0.3.2.4.4[FS] | 2.0.3.2.1.4[FS]; 2.0.4.3.21[FS] |
| 2.0.3.2.1.2.5 | Construct Prototype Target Carrier | Complete | 80d | 15Sep10 30Jun11 | 30Dec10 22Apr11 | None | | None | | 1.0.3.2.4.4[FS] | 1.0.3.2.5.10[FS]; 2.0.3.2.4.4[FS] |
| 2.0.3.2.1.3 | Baffle | Complete | 478d | 01Apr10 24Feb12 | 18May10 24Feb12 | None | | None | | | |
| 2.0.3.2.1.3.1 | Finalize Baffle Design Package | Complete | 25d | 01Apr10 20Dec10 | 23Jul10 26Aug10 | None | | None | | 1.0.3.2.1.3.3[FS] | |
| 2.0.3.2.1.3.2 | Write Accord w/IHEP for Baffle | Complete | 24d | 01Apr10 30Apr10 | 18May10 21Jun10 | None | | None | | 1.0.3.2.1.3.2[FS] | 1.0.3.2.1.3.3[FS] |
| 2.0.3.2.1.3.3 | Construct Baffle at IHEP | Complete | 212d | 01Jul10 07Feb11 | 24Feb11 27Dec11 | None | | None | | 2.0.3.2.4.1[FS] | 2.0.3.2.4.2[FS] |
| 2.0.3.2.1.3.4 | Inspect & Test Baffle (at FNAL) | Complete | 40d | 01Nov11 24Feb12 | 28Dec11 24Feb12 | None | | None | | 2.0.3.2.4.2[FS] | 2.0.3.2.1.4[FS] |
| 2.0.3.2.1.4 | Final assy & installation Production Target & Baffle into new carriers | Complete | 46d | 13Jun12 29Mar13 | 23Aug12 26Oct12 | None | | None | | 2.0.3.2.1.3.4[FS]; 2.0.3.2.1.2.4[FS]; 2.0.3.2.1.1.4[FS] | 2.0.3.2.1.5[FS]; 2.0.3.2.4.3[FS] |
| 2.0.3.2.1.5 | Installation to existing Target Module /Installation in Chase. | Complete | 12d | 10Apr13 29May13 | 27Dec12 15Jan13 | None | | None | | 2.10.10.7[FS]; 2.0.3.2.1.4[FS]; 2.0.3.3.2.3[FS] | 2.10.10.8[FS]; 2.0.3.4.1.2.4[FS]; 2.0.3.4.1.1.3[FS]; 2.0.3.4.1.2.7[FS]; 2.0.3.4.1.4.5[FS]; 2.0.3.4.1.3.3[FS]; 2.0.3.4.1.5.4[FS] |
| 2.0.3.2.1.6 | Target, Baffle & Carrier Design Review | Complete | 15d | 25Oct11 25Oct11 | 11Oct11 31Oct11 | None | | None | | 2.0.3.2.1.1.1[FS] | 2.0.3.2.1.1.3[FS]; 2.0.3.2.4.1[FS] |
| 2.0.3.2.2 | Hadron Monitor | Complete | 307d | 09Jan12 27Mar13 | 01Feb10 15Jan13 | None | | None | | | |
| 2.0.3.2.2.1 | Prep Req & Award PO for Construction of Replacement Hadron Monitor (UT MOU) | Complete | 53d | 09Jan12 29Jun12 | 01Feb10 26Mar10 | None | | None | | 1.0.3.2.5.9[FS]; 2.10.9.6[FS]; 2.10.9.8[FS] | 2.0.3.2.2.2[FS-6d]; 1.0.3.2.3[FS] |
| 2.0.3.2.2.2 | Vendor Fab & Receive Replacement Hadron Monitor (UT MOU) (OBSOLETE) | Complete | 1d | 29Jun12 29Jun12 | 29Jun12 29Jun12 | None | | None | | 2.0.3.2.2.1[FS-6d] | 2.0.3.2.4.8[FS]; 2.10.10.7[FS] |
| 2.0.3.2.2.3 | Install hadron monitor in tunnel | Complete | 10d | 28Jan13 27Mar13 | 02Jan13 15Jan13 | None | | None | | 2.0.3.2.4.8[FS]; 2.10.10.7[FS] | 2.0.3.2.2.4[FS] |
| 2.0.3.2.3 | Hadron Monitor Beam Abort | Complete | 4d | 01Mar11 04Mar11 | 01Mar11 04Mar11 | None | | None | | | |
| 2.0.3.2.3.1 | Prep Req & Award PO for Hadron Monitor Beam Abort (OBSOLETE) | Complete | 1d | 01Mar11 01Mar11 | 01Mar11 01Mar11 | None | | None | | 2.10.9.6[FS] | 2.0.3.2.3.2[FS] |
| 2.0.3.2.3.2 | Receive Parts for Hadron Monitor Beam Abort (OBSOLETE) | Complete | 1d | 02Mar11 02Mar11 | 02Mar11 02Mar11 | None | | None | | 2.0.3.2.3.1[FS] | 2.0.3.2.3.3[FS] |
| 2.0.3.2.3.3 | Fabricate Hadron Monitor Beam Abort (OBSOLETE) | Complete | 1d | 03Mar11 03Mar11 | 03Mar11 03Mar11 | None | | None | | 2.0.3.2.3.2[FS] | 2.0.3.2.3.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.2.3.4 | Install Hadron Monitor Beam Abort (OBSOLETE) | Complete | 1d | 04Mar11 04Mar11 | 04Mar11 04Mar11 | None | | None | | 2.0.3.2.3.3[FS] | |
| 2.0.3.2.4 | NuMI Target Hall Technical Components Milestones | Complete | 538d | 01Jul10 20Aug12 | 01Jul10 17Sep12 | None | | None | | | |
| 2.0.3.2.4.1 | NuMI Begin Baffle Procurement | Complete | 0 | 01Jul10 01Jul10 | 23Feb11 23Feb11 | None | | None | | 2.0.3.2.1.6[FS] | 2.0.3.2.1.3.3[FS] |
| 2.0.3.2.4.2 | NuMI Baffle Delivered | Complete | 0 | 02Mar11 02Mar11 | 27Dec11 27Dec11 | None | | None | | 2.0.3.2.1.3.3[FS] | 2.0.3.2.1.3.4[FS] |
| 2.0.3.2.4.3 | NuMI ME Target/Carrier/Baffle Assembly Complete | Complete | 0 | 20Aug12 20Aug12 | 20Aug12 20Aug12 | None | | None | | 2.0.3.2.1.4[FS] | 2.10.10.7[FS] |
| 2.0.3.2.4.4 | NuMI Target Carrier Delivered | Complete | 0 | 29Jun12 29Jun12 | 26Oct11 26Oct11 | None | | None | | 2.0.3.2.1.2.5[FS] | 2.0.3.2.1.2.4[FS] |
| 2.0.3.2.4.7 | NuMI IHEP ME Target Accord Signed | Complete | 0 | 02Jul12 02Jul12 | 01Jul10 01Jul10 | None | | None | | 2.0.3.2.1.1.2[FS] | 1.0.3.2.1.1.4[FS] |
| 2.0.3.2.4.8 | Replacement Hadron Monitor Delivered | Complete | 0 | 31Jul12 31Jul12 | 17Sep12 17Sep12 | None | | None | | 2.0.3.2.2.2[FS] | 2.0.3.2.2.3[FS] |
| 2.0.3.3 | NuMI Target Hall Infrastructure | Complete | 1031d | 02Feb09 08Mar13 | 01May09 17Jan13 | None | | None | | | |
| 2.0.3.3.1 | Target Hall Operations Space Planning | Complete | 415d | 10Feb11 01Oct12 | 08Jun10 02Jul12 | None | | None | | | |
| 2.0.3.3.1.1 | Prep Req & Award PO for Target Hall Operations Space Planning Equip | Complete | 50d | 10Feb11 02May11 | 08Jun10 17Aug10 | None | | None | | 2.10.9.6[FS]; 1.0.3.3.4.6[FS] | 2.0.3.3.1.2[FS] |
| 2.0.3.3.1.2 | Vendor Fab & Receive Target hall Operations Space Planning Equip | Complete | 50d | 01Jun11 31Jan12 | 15Mar11 23May11 | None | | None | | 2.0.3.3.1.1[FS] | 2.0.3.3.1.3[FS]; 2.0.4.3.14[FS] |
| 2.0.3.3.1.3 | Install new operations equipment in Target Hall | Complete | 6d | 03Jul12 01Oct12 | 25Jun12 02Jul12 | None | | None | | 2.10.10.5[FS]; 1.0.3.1.2.2.11[FS]; 2.0.3.3.1.2[FS] | 2.10.10.6[FS] |
| 2.0.3.3.2 | Horn2 Re-location to Medium Energy | Complete | 1031d | 02Feb09 08Mar13 | 08Jul09 25Oct12 | None | | None | | | |
| 2.0.3.3.2.1 | Stripline Extension | Complete | 761d | 01Feb10 08Feb13 | 26Apr10 20Sep12 | None | | None | | | |
| 2.0.3.3.2.1.1 | Final Assembly Dwgs for Stripline Extension & Stands | Complete | 40d | 01Feb10 29Jun10 | 26Apr10 21Jun10 | None | | None | | 1.0.3.3.2.1.3[FS] | 2.0.3.3.2.1.2[FS] |
| 2.0.3.3.2.1.2 | Procure & fabrication of stripline extension parts | Complete | 254d | 23Apr10 12Oct11 | 22Jun10 23Jun11 | None | | None | | 2.0.3.3.2.1.1[FS]; 2.10.9.6[FS] | 2.0.3.3.2.1.3[FF] |
| 2.0.3.3.2.1.3 | Receive, Inspection & Handling of Parts | Complete | 152d | 12Apr11 12Oct11 | 24Jun11 21Jul11 | None | | None | | 2.0.3.3.2.1.2[FF] | 2.0.3.3.2.1.4[FS] |
| 2.0.3.3.2.1.4 | Assembly of stripline extension | Complete | 19d | 19Oct11 19Oct11 | 25Oct11 18Nov11 | None | | None | | 2.0.3.3.2.1.3[FS] | 2.0.3.3.2.1.5[FS]; 2.0.3.3.4.3[FS] |
| 2.0.3.3.2.1.5 | Installation of stripline extension & fence | Complete | 13d | 05Sep12 08Feb13 | 04Sep12 20Sep12 | None | | None | | 2.10.10.5[FS+20d]; 2.0.3.3.2.1.4[FS] | 2.10.10.6[FS] |
| 2.0.3.3.2.2 | Shielding Reconfiguration | Complete | 1031d | 02Feb09 08Mar13 | 08Jul09 25Oct12 | None | | None | | | |
| 2.0.3.3.2.2.1 | Final Design Shielding Blocks & Remote Lifting Components | Complete | 40d | 02Feb09 28Dec09 | 08Jul09 01Sep09 | None | | None | | 1.0.3.3.2.2.3[FS] | 1.0.3.3.4.6[FS] |
| 2.0.3.3.2.2.2 | Prep Req & Award PO for Shielding Blocks | Complete | 25d | 02Sep10 04Feb11 | 08Jun10 13Jul10 | None | | None | | 1.0.3.3.4.6[FS]; 2.10.9.6[FS] | 2.0.3.3.2.2.3[FS] |
| 2.0.3.3.2.2.3 | Vendor Fab & Receive Shielding Blocks | Complete | 150d | 02Sep10 28Sep11 | 01Dec10 06Jul11 | None | | None | | 2.0.3.3.2.2.2[FS] | 2.0.3.3.2.2.8[FS]; 2.0.4.3.14[FS]; 2.0.3.3.4.1[FS] |
| 2.0.3.3.2.2.4 | Prep Req & Award PO for Remote Lifting System Components | Complete | 45d | 03Sep10 05May11 | 08Jun10 10Aug10 | None | | None | | 2.10.9.6[FS]; 1.0.3.3.4.6[FS] | 2.0.3.3.2.2.5[FS] |
| 2.0.3.3.2.2.5 | Receive Remote Lifting System Components | Complete | 97d | 03Dec10 27May11 | 13Jan11 31May11 | None | | None | | 2.0.3.3.2.2.4[FS] | 1.0.3.3.2.3.1[FS]; 1.0.3.3.2.3.2[FS]; 2.0.3.3.2.2.8[FS]; 2.0.4.3.14[FS] |
| 2.0.3.3.2.2.6 | Prep Req & Award PO for Carriage Support | Complete | 45d | 03Sep10 02Mar11 | 08Jun10 10Aug10 | None | | None | | 1.0.3.3.4.6[FS]; 2.10.9.6[FS] | 2.0.3.3.2.2.7[FS] |
| 2.0.3.3.2.2.7 | Vendor Fab & Receive Carriage Support | Complete | 74d | 02May11 08Jun11 | 05May11 18Aug11 | None | | None | | 2.0.3.3.2.2.6[FS] | 2.0.3.3.4.1[FS]; 2.0.3.3.2.2.8[FS]; 2.0.4.3.14[FS] |
| 2.0.3.3.2.2.8 | Installation of Rails, Carriage, T-Block Supports & Shielding Blocks in ME Position | Complete | 38d | 16Jul12 08Mar13 | 04Sep12 25Oct12 | None | | None | | 2.0.3.3.2.2.3[FS]; 2.0.3.3.2.2.5[FS]; 1.0.3.3.2.3.2[FS+35d]; 2.0.3.3.2.2.7[FS]; 2.0.3.3.4.1[FS] | 2.0.3.3.2.3[FS]; 2.10.10.6[FS] |
| 2.0.3.3.3 | Target Chase Upgrades | Complete | 957d | 01May09 22Feb13 | 01May09 17Jan13 | None | | None | | | |
| 2.0.3.3.3.1 | Target Chase Air Cooling | Complete | 683d | 15Jan10 28Sep12 | 05Jan10 06Nov12 | None | | None | | | |
| 2.0.3.3.3.1.1 | Final Design of New Chiller Coils | Complete | 40d | 15Jan10 19May10 | 05Jan10 02Mar10 | None | | None | | 1.0.3.3.4.4[FS] | 1.0.3.3.5.3[FS] |
| 2.0.3.3.3.1.2 | Prep Req & Award PO for Target Chase Cooling Equip | Complete | 35d | 15Aug11 30Mar12 | 17May10 06Jul10 | None | | None | | 1.0.3.3.4.5[FS]; 2.10.9.6[FS] | 2.0.3.3.3.1.3[FS] |
| 2.0.3.3.3.1.3 | Vendor Fab & Receive Target Chase Cooling Equip | Complete | 55d | 28Dec11 13Apr12 | 19Dec11 09Mar12 | None | | None | | 2.0.3.3.3.1.2[FS] | 2.0.3.3.3.1.4[FS]; 2.0.4.3.14[FS] |
| 2.0.3.3.3.1.4 | Modify Coil Box & Install Cooling Coils | Complete | 25d | 07May12 25May12 | 07Sep12 11Oct12 | None | | None | | 2.10.10.5[FS+5d]; 2.0.3.3.3.1.3[FS] | 2.0.3.3.3.1.5[FS] |
| 2.0.3.3.3.1.5 | Install Instrumentation & Read Backs for Cooling Coils | Complete | 12d | 25May12 28Sep12 | 12Oct12 29Oct12 | None | | None | | 2.0.3.3.3.1.4[FS] | 2.0.3.3.3.1.6[FS] |
| 2.0.3.3.3.1.6 | Test & Troubleshoot Cooling Equip | Complete | 6d | 27Aug12 28Sep12 | 30Oct12 06Nov12 | None | | None | | 2.0.3.3.3.1.5[FS] | 2.0.3.3.4.2[FS] |
| 2.0.3.3.3.2 | Horn 1 Stripline Block | Complete | 216d | 01May09 12Mar10 | 01May09 23Apr10 | None | | None | | | |
| 2.0.3.3.3.2.1 | Final Design Forced Air Cooling for Horn 1 Chase Stripline | Complete | 30d | 01Mar10 12Mar10 | 15Mar10 23Apr10 | None | | None | | 1.0.3.3.3.2.3[FS] | 1.0.3.3.4.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.3.3.2.2 | Prep Req & Award PO for New Stripline Cooling Components (obsolete) | Complete | 1d | 01May09 01May09 | 01May09 01May09 | None | | None | | | 2.0.3.3.3.2.3[FS] |
| 2.0.3.3.3.2.3 | Vendor Fab & Receive New Stripline Cooling Components (obsolete) | Complete | 1d | 04May09 04May09 | 04May09 04May09 | None | | None | | 2.0.3.3.3.2.2[FS] | 2.0.3.3.3.2.4[FS] |
| 2.0.3.3.3.2.4 | Horn 1 Stripline Block Assemble (obsolete) | Complete | 1d | 05May09 05May09 | 05May09 05May09 | None | | None | | 2.0.3.3.3.2.3[FS] | |
| 2.0.3.3.3.3 | Radiant Heat Loads | Complete | 593d | 12Oct10 22Feb13 | 21Jul10 17Jan13 | None | | None | | | |
| 2.0.3.3.3.3.1 | Procure & Fabricate Additional Chase Temperature Monitoring Equip | Complete | 60d | 12Oct10 15Jul11 | 21Jul10 13Oct10 | None | | None | | 1.0.3.3.3.3.2[FS]; 1.0.3.3.4.5[FS]; 2.10.9.6[FS] | 2.0.3.3.3.3.2[FS]; 2.0.4.3.14[FS] |
| 2.0.3.3.3.3.2 | Install additional temp monitoring Equip & Readbacks | Complete | 14d | 28Sep12 22Feb13 | 27Dec12 17Jan13 | None | | None | | 2.10.10.5[FS]; 2.0.3.3.2.3[FS]; 2.0.3.3.3.3.1[FS] | 2.10.10.6[FS] |
| 2.0.3.3.4 | NuMI Target Hall Infrastructure Milestones | Complete | 253d | 28Sep11 28Sep12 | 28Nov11 06Nov12 | None | | None | | | |
| 2.0.3.3.4.1 | NuMI Shielding Blocks & Carriage Complete | Complete | 0 | 28Sep11 28Sep11 | 28Nov11 28Nov11 | None | | None | | 2.0.3.3.2.2.7[FS]; 2.0.3.3.2.2.3[FS] | 2.0.3.3.2.2.8[FS] |
| 2.0.3.3.4.2 | NuMI Installation of Target Chase Cooling Complete | Complete | 0 | 28Sep12 28Sep12 | 06Nov12 06Nov12 | None | | None | | 2.0.3.3.3.1.6[FS] | 2.10.10.6[FS] |
| 2.0.3.3.4.3 | NuMI Stripline Assembly Complete | Complete | 0 | 19Oct11 19Oct11 | 28Nov11 28Nov11 | None | | None | | 2.0.3.3.2.1.4[FS] | 2.0.4.3.14[FS] |
| 2.0.3.4 | NuMI Decay Pipe/Hadron Absorber/Utilities | Complete | 728d | 07Jul10 29May13 | 02Jun10 28Jan13 | None | | None | | | |
| 2.0.3.4.1 | NuMI RAW Systems | Complete | 584d | 01Feb11 24May13 | 17Jun11 28Jan13 | None | | None | | | |
| 2.0.3.4.1.1 | Target RAW | Complete | 416d | 01Aug11 28Mar13 | 07Oct11 18Jan13 | None | | None | | | |
| 2.0.3.4.1.1.1 | Procure & Fab Target RAW Instrumentation Upgrade | Complete | 160d | 01Aug11 16Jul12 | 07Oct11 29May12 | None | | None | | 2.10.9.6[FS]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.1.2[FS] |
| 2.0.3.4.1.1.2 | Install Target RAW Instrumentation Upgrade | Complete | 7d | 14May12 28Sep12 | 02Jul12 11Jul12 | None | | None | | 2.10.10.5[FS]; 2.0.3.4.1.1.1[FS] | 2.0.3.4.1.1.3[FS] |
| 2.0.3.4.1.1.3 | Test & Troubleshoot Target RAW Instrumentation Upgrade | Complete | 3d | 01Oct12 28Mar13 | 16Jan13 18Jan13 | None | | None | | 2.0.3.2.1.5[FS]; 2.0.3.4.1.1.2[FS] | 2.0.3.4.4.2[FS] |
| 2.0.3.4.1.2 | Horns RAW | Complete | 432d | 01Feb11 15Oct12 | 17Jun11 23Jan13 | None | | None | | | |
| 2.0.3.4.1.2.1 | Final Design Horn RAW Skid Upgrades | Complete | 40d | 01Feb11 23Mar12 | 17Jun11 12Aug11 | None | | None | | 1.0.3.4.1.2.3[FS]; 1.0.3.4.1.2.2[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.1.2.2 | Procure Horn 1 RAW Skid Upgrade Parts | Complete | 164d | 01Aug11 28Sep12 | 07Oct11 04Jun12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.2.3[FS] |
| 2.0.3.4.1.2.3 | Fabricate/Install Horn 1 RAW Skid Upgrade | Complete | 14d | 15Jun12 15Oct12 | 08Jun12 27Jun12 | None | | None | | 2.0.3.4.1.2.2[FS] | 2.0.3.4.1.2.4[FS] |
| 2.0.3.4.1.2.4 | Test & Troubleshoot Horn 1 RAW Skid | Complete | 5d | 01Oct12 15Oct12 | 16Jan13 23Jan13 | None | | None | | 2.0.3.2.1.5[FS]; 2.0.3.4.1.2.3[FS] | 2.0.3.4.4.3[FS] |
| 2.0.3.4.1.2.5 | Procure Horn 2 RAW Skid Upgrade Parts | Complete | 164d | 01Aug11 28Sep12 | 07Oct11 04Jun12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.2.6[FS] |
| 2.0.3.4.1.2.6 | Fabricate/Install Horn 2 RAW Skid Upgrade | Complete | 14d | 01Jun12 15Oct12 | 08Jun12 27Jun12 | None | | None | | 2.0.3.4.1.2.5[FS]; 2.10.10.5[FS] | 2.0.3.4.1.2.7[FS] |
| 2.0.3.4.1.2.7 | Test & Troubleshoot Horn 2 RAW Skid | Complete | 5d | 01Oct12 15Oct12 | 16Jan13 23Jan13 | None | | None | | 2.0.3.2.1.5[FS]; 2.0.3.4.1.2.6[FS] | 2.0.3.4.4.2[FS] |
| 2.0.3.4.1.3 | Horn 2 RAW Piping | Complete | 310d | 22Nov11 20Feb13 | 23Nov11 22Jan13 | None | | None | | | |
| 2.0.3.4.1.3.1 | Procure & Fab of Piping Extension Parts | Complete | 60d | 22Nov11 21May12 | 23Nov11 23Feb12 | None | | None | | 2.10.9.6[FS]; 1.0.3.4.1.3.1[FS]; 2.10.9.9[FS]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.3.2[FS] |
| 2.0.3.4.1.3.2 | Installation of piping extension incl Radiography | Complete | 11d | 05May12 15Nov12 | 21Aug12 05Sep12 | None | | None | | 2.10.10.5[FS+5d]; 2.0.3.4.1.3.1[FS] | 2.0.3.4.1.3.3[FS] |
| 2.0.3.4.1.3.3 | Test & Troubleshoot Horn 2 RAW Skid | Complete | 4d | 01Oct12 20Feb13 | 16Jan13 22Jan13 | None | | None | | 2.0.3.2.1.5[FS]; 2.0.3.4.1.3.2[FS] | 2.10.10.8[FS] |
| 2.0.3.4.1.4 | Decay Pipe RAW | Complete | 535d | 01Mar11 15Apr13 | 17Jun11 23Jan13 | None | | None | | | |
| 2.0.3.4.1.4.1 | Final Design DP US & DS RAW Skid Upgrade | Complete | 40d | 01Mar11 13Jan12 | 17Jun11 12Aug11 | None | | None | | 1.0.3.4.1.4.1[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.1.4.2 | Procure & Fabricate US & DS Decay Pipe RAW Upgrade | Complete | 160d | 22Nov11 16Jul12 | 23Nov11 16Jul12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.4.3[SS+40d]; 2.0.3.4.1.4.4[SS+40d] |
| 2.0.3.4.1.4.3 | Install Decay Pipe US RAW skid upgrade | Complete | 14d | 26Jun12 25Aug12 | 26Jul12 14Aug12 | None | | None | | 2.0.3.4.1.4.2[SS+40d]; 2.10.10.5[FS+20d] | 2.0.3.4.1.4.5[FS] |
| 2.0.3.4.1.4.4 | Install Decay Pipe DS RAW skid upgrade | Complete | 14d | 01Nov12 20Nov12 | 14Sep12 03Oct12 | None | | None | | 2.0.3.4.1.4.2[SS+40d]; 2.10.10.5[FS+95d] | 2.0.3.4.1.4.5[FS] |
| 2.0.3.4.1.4.5 | Test & Troubleshoot Decay Pipe RAW | Complete | 5d | 01Oct12 15Apr13 | 16Jan13 23Jan13 | None | | None | | 2.0.3.4.1.4.3[FS]; 2.0.3.4.1.4.4[FS]; 2.0.3.2.1.5[FS] | 2.0.3.4.4.2[FS] |
| 2.0.3.4.1.5 | Hadron Absorber RAW & Intermediate | Complete | 523d | 01Mar11 28Mar13 | 17Jun11 28Jan13 | None | | None | | | |
| 2.0.3.4.1.5.1 | Final Design Hadron Absorber Skids Upgrade | Complete | 40d | 01Mar11 24Apr12 | 17Jun11 12Aug11 | None | | None | | 1.0.3.4.1.5.3[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.1.5.2 | Procure & Fabricate Hadron Absorber skids | Complete | 160d | 22Nov11 15Jun12 | 23Nov11 16Jul12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.1.5.3[FS] |
| 2.0.3.4.1.5.3 | Install Hadron Absorber skids upgrade | Complete | 14d | 20Aug12 05Oct12 | 01Oct12 18Oct12 | None | | None | | 2.0.3.4.1.5.2[FS]; 2.10.10.5[FS+90d] | 2.0.3.4.1.5.4[FS] |
| 2.0.3.4.1.5.4 | Test & Troubleshoot Hadron Absorber Skids | Complete | 8d | 05Oct12 28Mar13 | 16Jan13 28Jan13 | None | | None | | 2.0.3.4.1.5.3[FS]; 2.0.3.2.1.5[FS] | 2.0.3.4.4.2[FS] |
| 2.0.3.4.1.6 | NuMI RAW Exchange System | Complete | 413d | 03Oct11 24May13 | 23Nov11 03Jan13 | None | | None | | | |
| 2.0.3.4.1.6.1 | Fabricate NuMI target hall RAW exchange system | Complete | 20d | 09Jan12 20Feb13 | 23Nov11 22Dec11 | None | | None | | 2.0.3.4.3.9[FS] | 2.0.3.4.1.6.4[FS]; 2.0.3.4.1.6.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.4.1.6.2 | Fabricate NuMI absorber hall RAW exchange system | Complete | 20d | 09Jan12 20Nov12 | 02Apr12 27Apr12 | None | | None | | 2.0.3.4.1.6.1[FS] | 2.0.3.4.1.6.5[FS] |
| 2.0.3.4.1.6.3 | Fabricate NuMI target hall RAW-room DI bottle shielding | Complete | 10d | 03Oct11 13Apr12 | 23Nov11 08Dec11 | None | | None | | 2.0.3.4.3.9[FS] | 2.0.3.4.1.6.6[FS]; 2.0.4.3.14[FS] |
| 2.0.3.4.1.6.4 | Install NuMI target hall RAW exchange system | Complete | 20d | 02Jan13 24May13 | 03Dec12 03Jan13 | None | | None | | 2.0.4.3.14[FS]; 2.0.3.4.1.6.1[FS]; 2.10.10.5[FS] | 2.0.4.3.17[FS] |
| 2.0.3.4.1.6.5 | Install NuMI absorber hall RAW exchange system | Complete | 20d | 05Oct12 30Nov12 | 08Oct12 02Nov12 | None | | None | | 2.0.4.3.14[FS]; 2.10.10.5[FS]; 2.0.3.4.1.6.2[FS] | 2.0.4.3.17[FS] |
| 2.0.3.4.1.6.6 | Install NuMI target hall RAW-room DI bottle shielding | Complete | 10d | 06Aug12 15Oct12 | 10Aug12 23Aug12 | None | | None | | 2.0.4.3.14[FS]; 2.10.10.5[FS]; 2.0.3.4.1.6.3[FS]; 2.0.3.4.1.6.7[FS] | 2.0.4.3.17[FS] |
| 2.0.3.4.1.6.7 | Additional machining of DI bottle steel | Complete | 43d | 02Apr12 13Apr12 | 01Mar12 30Apr12 | None | | None | | 2.0.3.4.3.9[FS] | 2.0.3.4.1.6.6[FS] |
| 2.0.3.4.2 | NuMI Cooling Water (Non RAW) | Complete | 701d | 07Jul10 19Apr13 | 02Jun10 08Nov12 | None | | None | | | |
| 2.0.3.4.2.1 | NuMI LCW | Complete | 539d | 01Mar11 19Apr13 | 13May11 07Nov12 | None | | None | | | |
| 2.0.3.4.2.1.1 | Final Design LCW Upgrade | Complete | 40d | 01Mar11 13Jan12 | 13May11 11Jul11 | None | | None | | 1.0.3.4.2.1.2[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.2.1.2 | NuMI Procure LCW Upgrade Parts | Complete | 160d | 22Nov11 30Mar12 | 23Nov11 16Jul12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.2.1.3[FS] |
| 2.0.3.4.2.1.3 | NuMI Install LCW Upgrade Parts | Complete | 14d | 28Jun12 15Aug12 | 01Oct12 18Oct12 | None | | None | | 2.0.3.4.2.1.2[FS]; 2.10.10.5[FS] | 2.0.3.4.2.1.4[FS] |
| 2.0.3.4.2.1.4 | NuMI Test & Troubleshoot LCW Upgrade | Complete | 14d | 10Sep12 19Apr13 | 19Oct12 07Nov12 | None | | None | | 2.0.3.4.2.1.3[FS] | 2.0.3.4.4.3[FS] |
| 2.0.3.4.2.2 | CUB Chilled Water System | Complete | 256d | 01Apr11 06Apr12 | 13May11 08Nov12 | None | | None | | | |
| 2.0.3.4.2.2.1 | Final Design CUB Chilled Water Upgrade | Complete | 40d | 01Apr11 31Oct11 | 13May11 11Jul11 | None | | None | | 1.0.3.4.2.2.2[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.2.2.2 | Procure CUB Upgrade Parts | Complete | 160d | 01Mar12 30Mar12 | 23Nov11 16Jul12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.2.2.4[FS] |
| 2.0.3.4.2.2.3 | Install CUB Upgrade Parts (OBSOLETE) | Complete | 1d | 01Feb12 02Feb12 | 01Feb12 01Feb12 | None | | None | | | |
| 2.0.3.4.2.2.4 | Test & Troubleshoot CUB Upgrade (OBSOLETE) | Complete | 1d | 06Apr12 06Apr12 | 22Oct12 08Nov12 | None | | None | | 2.0.3.4.2.2.2[FS] | 2.0.3.4.4.3[FS] |
| 2.0.3.4.2.3 | NuMI Sump Cooling Water Syst | Complete | 314d | 07Jul10 03Oct11 | 02Jun10 05Jan11 | None | | None | | | |
| 2.0.3.4.2.3.1 | Final Design NuMI Sump Cooling Water Upgrade | Complete | 106d | 07Jul10 30Jul10 | 02Jun10 29Oct10 | None | | None | | 1.0.3.4.2.3.2[FS] | 2.0.3.4.2.3.2[FS]; 2.0.3.4.3.9[FS] |
| 2.0.3.4.2.3.2 | Procure NuMI Sump Cooling Water Syst Upgrade Parts | Complete | 1d | 03Oct11 03Oct11 | 01Nov10 01Nov10 | None | | None | | 2.0.3.4.2.3.1[FS]; 1.0.3.4.2.3.3[FS]; 2.10.9.6[FS+60d] | 2.0.3.4.2.3.3[FS] |
| 2.0.3.4.2.3.3 | Install NuMI Sump Cooling Water Syst Upgrade Parts | Complete | 28d | 04Apr11 29Apr11 | 02Nov10 13Dec10 | None | | None | | 2.0.3.4.2.3.2[FS] | 2.0.3.4.2.3.4[FS] |
| 2.0.3.4.2.3.4 | Test & Troubleshoot NuMI Sump Cooling Water Syst Upgrade | Complete | 14d | 04Apr11 29Apr11 | 14Dec10 05Jan11 | None | | None | | 2.0.3.4.2.3.3[FS] | 2.0.3.4.4.3[FS] |
| 2.0.3.4.2.4 | MI-65 Secondary Chilled Water System | Complete | 256d | 01Apr11 06Apr12 | 13May11 16Oct12 | None | | None | | | |
| 2.0.3.4.2.4.1 | Final Design Secondary CW Skid Upgrade | Complete | 40d | 01Apr11 31Oct11 | 13May11 11Jul11 | None | | None | | 1.0.3.4.2.4.2[FS] | 2.0.3.4.3.9[FS] |
| 2.0.3.4.2.4.2 | MI-65 Secondary Chilled Water Syst Procure Skid Upgrade Parts | Complete | 160d | 01Mar12 30Mar12 | 23Nov11 16Jul12 | None | | None | | 2.10.9.6[FS+60d]; 2.0.3.4.3.9[FS] | 2.0.3.4.2.4.4[FS] |
| 2.0.3.4.2.4.3 | MI-65 Secondary Chilled Water Syst Install Skid Upgrade (OBSOLETE) | Complete | 1d | 01Feb12 01Feb12 | 01Feb12 01Feb12 | None | | None | | | |
| 2.0.3.4.2.4.4 | MI-65 Secondary Chilled Water Syst Test & Troubleshoot (OBSOLETE) | Complete | 1d | 06Apr12 06Apr12 | 27Sep12 16Oct12 | None | | None | | 2.0.3.4.2.4.2[FS] | 2.0.3.4.4.3[FS] |
| 2.0.3.4.3 | NuMI Electrical Infrastructure | Complete | 398d | 03Oct11 03May13 | 17Oct11 28Jun12 | None | | None | | | |
| 2.0.3.4.3.1 | Procure Electrical Capacity Upgrades, for 700kW, Upstream Systems | Complete | 17d | 09Jan12 15Jan13 | 02Apr12 24Apr12 | None | | None | | 2.0.3.4.3.8[FS]; 2.10.9.6[FS] | 2.0.3.4.3.2[SS] |
| 2.0.3.4.3.2 | Install Electrical Upgrades, Upstream | Complete | 21d | 07May12 20Feb13 | 02May12 31May12 | None | | None | | 2.10.10.5[FS]; 2.0.3.4.3.1[SS] | 2.0.3.4.3.3[FS] |
| 2.0.3.4.3.3 | Test & Troubleshoot Electrical Upgrades, Upstream | Complete | 4d | 20Feb13 03May13 | 01Jun12 06Jun12 | None | | None | | 2.0.3.4.3.2[FS] | 2.10.10.6[FS] |
| 2.0.3.4.3.4 | Procure Electrical Capacity Upgrades, for 700kW, Downstream Systems | Complete | 17d | 09Jan12 30Nov12 | 02Apr12 24Apr12 | None | | None | | 2.10.9.6[FS]; 2.0.3.4.3.7[FS] | 2.0.3.4.3.5[SS] |
| 2.0.3.4.3.5 | Install Electrical Upgrades, Downstream | Complete | 14d | 25Oct12 20Feb13 | 01Jun12 20Jun12 | None | | None | | 2.10.10.5[FS]; 2.0.3.4.3.4[SS] | 2.0.3.4.3.6[FS] |
| 2.0.3.4.3.6 | Test & Troubleshoot Electrical Upgrades, Downstream | Complete | 6d | 05Nov12 30Apr13 | 21Jun12 28Jun12 | None | | None | | 2.0.3.4.3.5[FS] | 2.10.10.6[FS] |
| 2.0.3.4.3.7 | Analyze & Design Elect Capacity Upgrades for 700kW, Downstream Systems | Complete | 4d | 09Jan12 18Jul12 | 23Nov11 30Nov11 | None | | None | | 2.0.3.4.3.9[FS] | 2.0.3.4.3.4[FS] |
| 2.0.3.4.3.8 | Analyze & Design Elect Capacity Upgrades for 700kW, Upstream Systems | Complete | 4d | 09Jan12 18Jul12 | 23Nov11 30Nov11 | None | | None | | 2.0.3.4.3.9[FS] | 2.0.3.4.3.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.3.4.3.9 | NuMI Utilities Systems & RAW Design Review | Complete | 27d | 03Oct11 23Nov11 | 17Oct11 22Nov11 | None | | None | | 1.0.3.4.1.3.1[FS]; 1.0.3.4.2.4.3[FS]; 2.0.3.4.1.4.1[FS]; 1.0.3.4.1.6.6[FS]; 1.0.3.4.1.1.1[FS]; 1.0.3.4.1.6.5[FS]; 2.0.3.4.2.2.1[FS]; 2.10.9.8[FS]; 2.0.3.4.2.1.1[FS]; 2.0.3.4.1.5.1[FS]; 2.0.3.4.2.3.1[FS]; 2.0.3.4.2.4.1[FS]; 2.0.3.4.1.2.1[FS] | 2.0.3.4.1.6.7[FS]; 2.0.3.4.1.6.1[FS]; 2.0.3.4.1.1.1[FS]; 2.0.3.4.2.4.2[FS]; 2.0.3.4.1.6.3[FS]; 2.0.3.4.1.2.5[FS]; 2.0.3.4.1.4.2[FS]; 2.0.3.4.3.8[FS]; 2.0.3.4.3.7[FS]; 2.0.3.4.1.2.2[FS]; 2.0.3.4.1.5.2[FS]; 2.0.3.4.1.3.1[FS]; 2.0.3.4.2.2.2[FS]; 2.0.3.4.2.1.2[FS] |
| 2.0.3.4.4 | NuMI Decay Pipe/Hadron Absorber/Utilities Milestones | Complete | 21d | 30Apr13 29May13 | 23Jan13 28Jan13 | None | | None | | | |
| 2.0.3.4.4.2 | NuMI RAW Systems Mods Complete | Complete | 0 | 29May13 29May13 | 28Jan13 28Jan13 | None | | None | | 2.0.3.4.1.5.4[FS]; 2.0.3.4.1.4.5[FS]; 2.0.3.4.1.1.3[FS]; 2.0.3.4.1.2.7[FS] | 2.10.10.6[FS] |
| 2.0.3.4.4.3 | NuMI Cooling Water (Non-RAW) Mods Complete | Complete | 0 | 30Apr13 30Apr13 | 23Jan13 23Jan13 | None | | None | | 2.0.3.4.2.3.4[FS]; 2.0.3.4.2.2.4[FS]; 2.0.3.4.2.4.4[FS]; 2.0.3.4.1.2.4[FS]; 2.0.3.4.2.1.4[FS] | 2.10.10.6[FS] |
| 2.0.4 | Project Management | In Progress | 1739d | 01Dec06 01Nov13 | 01May07 31Jan14 | None | | None | | | |
| 2.0.4.2 | Fermi Management & Administration | In Progress | 1508d | 01Oct07 01Oct13 | 01Oct07 01Oct13 | None | | None | | | |
| 2.0.4.2.1 | FY08 Management & Administration | Complete | 61d | 01Oct07 28Dec07 | 01Oct07 28Dec07 | Not Earlier Than | 01Oct07 | None | | 1.0.5.1.2[FS] | 2.0.4.2.2[FS] |
| 2.0.4.2.2 | FY09 Management & Administration | Complete | 170d | 03Nov08 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.0.4.2.1[FS]; 2.10.9.7[FS] | 2.0.4.2.3[FS] |
| 2.0.4.2.3 | FY10 Management & Administration | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | None | | None | | 2.0.4.2.2[FS] | 2.0.4.2.4[FS] |
| 2.0.4.2.4 | FY11 Management & Administration | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 30Sep11 | None | | None | | 2.0.4.2.3[FS] | 2.0.4.2.5[FS]; 2.0.4.3.21[FS] |
| 2.0.4.2.5 | FY12 Management & Administration | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.0.4.2.4[FS] | 2.0.4.3.21[FS]; 2.0.4.2.8[FS] |
| 2.0.4.2.7 | As-built Documentation (Off-project) | Complete | 130d | 03Jan13 31Jan13 | 19Nov12 29May13 | None | | None | | 2.0.4.3.17[FF+42d] | 2.0.4.3.21[FS] |
| 2.0.4.2.8 | FY13 Management & Administration | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.0.4.2.5[FS] | 2.0.4.2.9[FS] |
| 2.0.4.2.9 | FY14 Management & Administration (OBSOLETE) | Planned | 1d | 01Oct13 01Oct13 | 01Oct13 01Oct13 | None | | None | | 2.0.4.2.8[FS] | 2.0.4.3.21[FS] |
| 2.0.4.3 | ANU Subproject Milestones | In Progress | 1739d | 01Dec06 01Nov13 | 01May07 31Jan14 | None | | None | | | |
| 2.0.4.3.12 | Start of ANU Accounting | Complete | 0 | 01May07 01May07 | 01May07 01May07 | Not Earlier Than | 01May07 | None | | | 1.0.3.2.1.2.1[FS]; 2.10.9.2[FS]; 1.0.1.3.1.1[FS]; 1.0.4.2.6[FS]; 1.0.3.3.1.2.1[FS]; 1.0.3.3.3.1.1[FS]; 1.0.4.2.1[FS]; 1.0.4.2.2[FS]; 1.0.2.1.1.2.1[FS]; 2.0.1.1.1.7.1[FS]; 1.0.3.2.1.3.1[FS]; 1.0.2.3.1[FS]; 1.0.1.4.1[FS+87d]; 2.0.4.4.2.13[FS]; 2.0.2.1.5.7[FS]; 2.0.2.1.5.6[FS] |
| 2.0.4.3.13 | ANU Shielding Assessment Updates Complete | Complete | 0 | 12Mar13 12Mar13 | 30Nov12 30Nov12 | None | | None | | 1.0.1.4.3.1[FS]; 1.0.2.3.2.1[FS]; 1.0.3.3.5.2[FS] | 2.0.4.3.16[FS]; 2.0.4.3.15[FS] |
| 2.0.4.3.14 | Ready for Shutdown to Install Accelerator Upgrades | Complete | 0 | 30Apr12 30Apr12 | 06Dec11 06Dec11 | None | | None | | 2.8.1.3.19[FS]; 2.0.1.1.5.4[FS]; 2.0.3.3.4.3[FS]; 2.0.3.3.2.2.3[FS]; 2.0.3.3.1.2[FS]; 2.0.3.3.3.3.1[FS]; 2.0.3.3.2.2.5[FS]; 2.0.3.3.3.1.3[FS]; 2.0.3.3.2.2.7[FS]; 2.0.3.4.1.6.3[FS]; 2.0.4.4.3.9[FS] | 2.0.3.4.1.6.4[FS]; 2.0.3.4.1.6.5[FS]; 2.0.3.4.1.6.6[FS]; 2.10.10.5[FS] |
| 2.0.4.3.15 | MI Ring Modifications Ready for Beam Transport | Planned | 0 | 10Jul13 10Jul13 | 01Jul13 01Jul13 | None | | None | | 2.0.2.1.3.6[FS]; 2.0.2.1.2.6[FS]; 2.0.2.1.4.1[FS]; 1.0.2.1.6.2[FS]; 2.0.2.2.5.4[FS]; 1.0.2.1.6.3[FS]; 2.0.2.2.5.5[FS]; 2.0.2.2.3.8[FS]; 2.0.4.3.13[FS]; 2.0.1.1.1.14.29.2[FS]; 1.0.2.2.5[FS]; 2.0.2.1.6.3[FS]; 2.0.2.1.5.10[FS]; 2.0.2.1.5.9[FS]; 2.0.2.1.5.6[FS]; 2.0.2.1.5.7[FS] | 2.10.10.6[FS] |
| 2.0.4.3.16 | RR Modifications Ready for Beam Transport | Planned | 0 | 10Jul13 10Jul13 | 01Jul13 01Jul13 | None | | None | | 2.0.1.2.4.2.8[FS]; 2.0.1.1.1.14.37.5[FS]; 2.0.1.1.1.14.37.4[FS]; 2.0.1.1.1.14.37.1[FS]; 2.0.1.1.1.14.37.6[FS]; 2.0.1.1.1.14.38.4[FS]; 2.0.1.1.1.14.37.2[FS]; 2.0.1.1.1.14.37.8[FS]; 2.0.1.1.1.14.33.1.7[FS]; 1.0.1.1.1.4.5[FS]; 1.0.1.1.1.3.5[FS]; 2.0.1.1.1.14.30.9[FS]; 2.0.1.1.1.14.34.3[FS]; 2.0.1.1.1.14.34.5[FS]; 2.0.1.1.1.14.34.1[FS]; 2.0.1.1.1.14.34.4[FS]; 2.0.1.1.1.14.34.6[FS]; 2.0.1.1.1.14.33.2.7[FS]; 2.0.1.1.1.14.35.8[FS]; 2.0.1.1.1.14.34.2[FS]; 2.0.1.1.1.14.31.5[FS]; 2.0.1.1.1.14.32.9[FS]; 2.0.1.2.8.5[FS]; 2.0.1.3.2.1.6.2[FS]; 2.0.1.1.3.1[FS]; 2.0.1.1.1.3.5.11[FS]; 2.0.1.1.3.3[FS]; 2.0.1.1.3.2[FS]; 2.0.4.3.13[FS]; 2.0.1.1.1.11.2[FS]; 2.0.1.3.3.2.6[FS]; 2.0.1.1.5.1[FS]; 2.0.1.3.3.1.3[FS]; 2.0.1.3.3.2.3[FS]; 2.0.1.1.1.14.29.2[FS]; 2.0.1.1.1.14.29.3[FS]; 1.0.1.1.2.2.5.11[FS]; 2.0.1.1.1.14.31.2[FS]; 1.0.1.1.2.2.5.7[FS]; 1.0.1.1.2.2.5.6[FS]; 1.0.1.1.2.2.5.8[FS]; 2.0.1.2.4.1.22[FS]; 2.0.1.2.4.3.3[FS]; 1.0.1.1.2.2.5.9[FS]; 2.0.1.1.1.3.8.6.3[FS]; 2.0.1.1.1.3.5.43[FS]; 2.0.1.1.1.3.5.37[FS]; 2.0.1.2.2.3[FS]; 2.0.1.1.1.14.38.3[FS]; 1.0.2.1.6.1[FS]; 2.0.1.1.1.7.1[FS]; 2.0.1.1.1.11.1[FS]; 2.0.1.1.1.11.3[FS]; 2.0.1.1.5.5[FS] | 2.0.1.1.1.14.29.4[FS]; 2.10.10.6[FS] |
| 2.0.4.3.17 | Ready to Commission Upgrades with Medium Energy Neutrino Beam | Planned | 0 | 10Jul13 10Jul13 | 01Jul13 01Jul13 | None | | None | | 2.0.3.4.1.6.4[FS]; 2.0.3.4.1.6.5[FS]; 1.0.4.4.1[FS]; 2.0.3.4.1.6.6[FS]; 2.10.10.6[FS]; 1.0.4.3.4[FS]; 2.0.2.1.6.4[FS]; 1.0.4.4.2[FS]; 2.10.10.8[FS] | 2.0.4.3.21[FS]; 2.0.4.2.7[FF+42d] |
| 2.0.4.3.21 | ANU Subproject Complete | Planned | 0 | 01Nov13 01Nov13 | 31Jan14 31Jan14 | None | | None | | 2.0.4.3.17[FS]; 2.0.4.2.5[FS]; 2.0.3.2.1.2.4[FS]; 2.0.3.2.1.2.3[FS]; 2.0.1.2.5.1.12[FS]; 2.0.1.2.7.3[FS]; 2.0.1.1.1.14.29.4[FS]; 2.0.1.1.1.10.5[FS]; 2.0.4.2.4[FS]; 2.0.4.2.7[FS]; 2.0.4.2.9[FS] | 2.10.8.3[FS]; 2.10.9.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.0.4.3.22 | ANU Schedule Contingency Milestone | Complete | 0 | 01Oct09 01Oct09 | 01Oct09 01Oct09 | Not Earlier Than | 01Oct09 | None | | | 2.0.1.2.6.3[FS]; 1.0.2.1.1.2.4[FS]; 1.0.1.2.5.3.2[FS]; 1.0.3.1.4.2[FS]; 1.0.1.1.6.3[FS]; 1.0.4.2.8[FS]; 1.0.1.1.2.1.2.2[FS]; 1.0.1.2.4.2.2.2[FS]; 1.0.1.2.2.2.15[FS]; 1.0.1.1.5.6[FS]; 1.0.4.2.9[FS]; 1.0.1.1.6.5[FS]; 1.0.1.2.4.2.2.5[FS]; 1.0.1.1.2.1.6.1[FS]; 1.0.3.3.2.1.3[FS]; 1.0.1.2.5.2.11[FS]; 2.0.1.1.1.2.6[FS]; 1.0.1.3.3.1[FS]; 1.0.1.1.5.1[FS]; 1.0.3.3.4.4[FS]; 2.0.4.4.1.6[FS]; 1.0.3.2.4.1[FS]; 1.0.3.3.3.4[FS]; 1.0.1.2.5.2.3[FS]; 2.0.2.2.2.1.4.1[FS]; 2.0.1.2.1.1.7[FS]; 1.0.1.1.2.1.2.1[FS]; 2.0.1.1.1.4.1[FS]; 2.0.1.1.1.2.2[FS]; 2.0.1.2.4.1.19[FS]; 2.0.1.2.5.1.7[FS]; 2.0.4.4.1.5[FS]; 2.0.1.2.1.1.9[FS]; 2.0.1.2.1.1.1[FS]; 2.0.2.2.2.1.2.1[FS]; 2.0.2.2.2.1.6.3[FS]; 2.0.2.2.2.1.3.1[FS]; 2.0.1.3.2.1.3.3[FS]; 2.0.1.2.1.1.3[FS]; 2.0.2.2.2.1.1.1[FS]; 2.0.1.2.5.2.4[FS]; 2.0.4.4.1.4[FS]; 2.0.3.1.2.2[FS]; 2.0.3.1.1.1.1[FS]; 2.0.1.2.3.2.8[FS] |
| 2.0.4.4 | Off Project MS | Complete | 1107d | 30Oct08 01Apr13 | 04Feb08 02Jul12 | None | | None | | | |
| 2.0.4.4.1 | Recycler | Complete | 227d | 03Sep09 30Jul10 | 02Sep08 01Mar10 | None | | None | | | |
| 2.0.4.4.1.2 | Off Project: Gap Clearing Kicker System Ready for Installation | Complete | 0 | 30Jul10 30Jul10 | 01Mar10 01Mar10 | None | | None | | | 2.0.1.2.2.5[FS]; 2.0.1.2.2.4[FS] |
| 2.0.4.4.1.3 | Off-Project: Receive & Inspect ceramic beamtubes for RR Inj, Gap Clearing & MI Magnets | Complete | 0 | 03Sep09 03Sep09 | 02Sep08 02Sep08 | None | | None | | | 2.0.4.4.3.3[FS] |
| 2.0.4.4.1.4 | Off-Project:: MI-14 SB Construction Complete | Complete | 0 | 18Dec09 18Dec09 | 12Feb10 12Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.10.10.4[FF+75d] | 2.0.2.1.2.3[FS]; 2.0.1.2.2.2.3[FF+20d]; 2.0.1.2.2.2.2[FF+20d]; 1.0.1.2.2.3.11[FS]; 2.0.1.2.2.3[FS]; 2.0.1.2.2.2.9[FS]; 2.0.1.2.2.2.8[FS]; 2.0.1.2.1.2.4[FS]; 2.0.1.1.1.3.5.9[FS]; 1.0.1.2.5.2.7[FS-100d]; 2.0.1.2.4.1.14[FS]; 2.0.1.2.4.1.18[FS]; 2.0.1.2.4.1.13[FS]; 2.0.1.2.4.1.11[FS]; 1.0.1.2.2.2.15[FS-64d]; 2.0.1.2.4.1.20[FS]; 1.0.1.2.2.2.12[FS-64d]; 1.0.1.2.2.2.16[FS-24d]; 1.0.1.2.2.2.17[FS-64d]; 2.0.1.2.2.2.6[FS] |
| 2.0.4.4.1.5 | Off-Project:: MI-39 SB Construction Complete | Complete | 0 | 07Dec09 07Dec09 | 12Feb10 12Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.10.10.4[FF+75d] | 2.0.1.2.5.2.7[FS]; 2.0.2.1.3.3[FS]; 2.0.1.2.6.6[FF+20d]; 2.0.1.2.6.3[FF+20d]; 2.0.1.2.5.1.10[FS]; 2.0.1.2.5.1.8[FS] |
| 2.0.4.4.1.6 | Off-Project:: MI-60 Anode Supply Room Construction Complete | Complete | 0 | 18Dec09 18Dec09 | 12Feb10 12Feb10 | None | | None | | 2.0.4.3.22[FS]; 2.10.10.4[FF+75d] | 1.0.1.1.3.2.2[FS] |
| 2.0.4.4.2 | NuMI Upgrades | Complete | 1097d | 30Oct08 18Mar13 | 02Jun08 02Jul12 | None | | None | | | |
| 2.0.4.4.2.8 | Off-Project: NuMI Horn 1 Modules Installed in Chase Complete | Complete | 0 | 18Mar13 18Mar13 | 15Jul10 15Jul10 | None | | None | | 2.0.4.4.2.13[FS+42d] | 2.10.10.8[FS] |
| 2.0.4.4.2.11 | Off-Project: Work Cell & Equipment Ready for ANU Operation | Complete | 0 | 29Jun12 29Jun12 | 02Jul12 02Jul12 | None | | None | | | 2.10.10.8[FS] |
| 2.0.4.4.2.12 | Off-Project:: RCRP Equipment & Procedures Ready for ANU Operations | Complete | 0 | 29Jun12 29Jun12 | 02Jul12 02Jul12 | Not Earlier Than | 02Jul12 | None | | | 2.10.10.8[FS] |
| 2.0.4.4.2.13 | Off-Project:: NuMI Modified Horn 1 Ready for Installation | Complete | 0 | 25Jan13 25Jan13 | 14May10 14May10 | None | | None | | 2.10.9.6[FS]; 1.0.3.3.4.5[FS]; 2.0.4.3.12[FS] | 2.10.10.7[FS]; 2.0.4.4.2.8[FS+42d] |
| 2.0.4.4.2.39 | Off-Project:: Radioactive Component Repairs/Removal Conceptual Design Review | Complete | 0 | 30Oct08 30Oct08 | 02Jun08 02Jun08 | Not Earlier Than | 02Jun08 | None | | | 1.0.3.3.4.6[FS] |
| 2.0.4.4.2.40 | Off Project: Profile Monitor Conceptual Design Complete | Complete | 0 | 01May09 01May09 | 02Sep08 02Sep08 | None | | None | | | 1.0.3.1.4.1[FS] |
| 2.0.4.4.3 | Gap Clearing | Complete | 1095d | 17Nov08 01Apr13 | 04Feb08 18Apr12 | None | | None | | | |
| 2.0.4.4.3.1 | RR Ferrite Procurement Finalized | Complete | 0 | 15Oct09 15Oct09 | 27May09 27May09 | None | | None | | | 2.0.1.2.1.1.1[FS] |
| 2.0.4.4.3.2 | Revise RR Inj & GC Magnet Design for Prod & Choose Ferrite (after 4th/Final Test) | Complete | 0 | 12May09 12May09 | 02Jul09 02Jul09 | None | | None | | 1.0.1.2.1.1.9[FS] | 2.0.1.2.1.1.3[FS]; 1.0.4.2.9[FS]; 2.0.1.2.1.1.9[FS]; 2.0.4.4.3.5[FS] |
| 2.0.4.4.3.3 | RR Inj Kicker Magnet Measure Tubes as Received | Complete | 0 | 15Jul09 15Jul09 | 02Sep08 02Sep08 | None | | None | | 2.0.4.4.1.3[FS] | 2.0.1.2.1.1.5[FS]; 2.0.1.2.3.2.1[FS]; 2.0.1.2.5.1.1[FS] |
| 2.0.4.4.3.4 | Fin Ceramic Bmtube Brazing Test, Revise RR Inj & GC Proto Mag Des & Fab Revised Pts (after 3rd | Complete | 0 | 27Feb09 27Feb09 | 26Jan09 26Jan09 | None | | None | | 1.0.1.2.1.1.8[FS] | 2.0.1.2.1.1.7[FS]; 2.0.1.2.2.1.9[FS] |
| 2.0.4.4.3.5 | Revise RR Inj & GC Mag for Prod & Choose Ferrite (after 4th/Final Test) | Complete | 0 | 12May09 12May09 | 02Jul09 02Jul09 | None | | None | | 1.0.1.2.1.1.9[FS]; 2.0.4.4.3.2[FS] | 2.0.1.2.8.1[FS]; 1.0.4.2.9[FS]; 2.0.1.2.1.1.3[FS]; 2.0.1.2.1.1.9[FS] |
| 2.0.4.4.3.7 | RR Inj & GC Install PFNs in MI-14 & MI-39 | Complete | 0 | 15Oct12 15Oct12 | 13Mar12 13Mar12 | None | | None | | 2.0.1.2.2.2.8[FS] | |
| 2.0.4.4.3.8 | RR Inj & GC Install 3 Spare PFL Frames in MI-39 | Complete | 0 | 21Jun10 21Jun10 | 08Apr09 08Apr09 | None | | None | | 1.0.1.2.2.3.12[FS] | |
| 2.0.4.4.3.9 | RR Inj & GC Install 5 PFL Frames in MI-39 | Complete | 0 | 30Jul10 30Jul10 | 13Dec10 13Dec10 | None | | None | | 1.0.1.2.2.3.10[FS]; 1.0.1.2.2.3.8[FS] | 2.0.4.3.14[FS] |
| 2.0.4.4.3.10 | RR Inj & GC Install Resonant Chargers in MI-14 & MI-39 | Complete | 0 | 01Apr13 01Apr13 | 18Apr12 18Apr12 | None | | None | | 2.0.1.2.2.2.9[FS]; 2.0.1.2.2.2.7[FS]; 2.0.1.2.2.2.6[FS]; 2.0.1.2.2.6.2[FS] | |
| 2.0.4.4.3.11 | RR Inj GC Bumper PS Design Review | Complete | 0 | 01Aug11 01Aug11 | 22May09 22May09 | None | | None | | 1.0.1.2.6.9[FS] | 2.0.1.2.2.1.9[FS] |
| 2.0.4.4.3.12 | RR Ready to Start Final Procurement for Kicker Magnets | Complete | 0 | 11Feb11 11Feb11 | 16Dec10 16Dec10 | None | | None | | 2.0.1.2.8.1[FS] | 2.0.1.2.2.1.7[FS]; 2.0.1.2.1.1.11[FS]; 2.0.1.2.2.1.9[FS]; 2.0.1.2.2.1.11[FS] |
| 2.0.4.4.3.13 | Procure Tooling for Magnet Potting & Measurement Complete | Complete | 0 | 17Nov08 17Nov08 | 02Jun08 02Jun08 | None | | None | | 1.0.1.2.1.2.6[FS] | 2.0.1.2.2.2.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1 | Site and Building | Complete | 1228d | 01Nov07 21Sep12 | 27Sep07 04Sep12 | None | | None | | | |
| 2.1.1 | Site Preparation Package | Complete | 772d | 01Nov07 30Nov10 | 27Sep07 29Mar11 | None | | None | | | |
| 2.1.1.1 | Title 2 (Design) Phase | Complete | 318d | 01Dec07 11Mar09 | 27Sep07 27Mar08 | None | | None | | | |
| 2.1.1.1.1 | Prepare request for proposal for A/E | Complete | 5d | 01Dec07 04Dec07 | 27Sep07 03Oct07 | None | | None | | 1.9.5.10[FS] | 2.1.1.5.1.3.2[SS]; 2.1.1.5.1.3.1[SS]; 2.1.1.5.1.1[SS]; 2.1.1.5.1.2[SS]; 2.1.1.1.2[FS] |
| 2.1.1.1.2 | Issue RFP to A/E for Title 2 for Site Prep Package | Complete | 0 | 05Dec07 05Dec07 | 03Oct07 03Oct07 | None | | None | | 1.9.5.15[FS]; 2.1.1.1.1[FS] | 2.1.1.1.3[FS+10d] |
| 2.1.1.1.3 | Review received proposal | Complete | 10d | 10Dec07 17Dec07 | 18Oct07 31Oct07 | None | | None | | 2.1.1.1.2[FS+10d] | 2.1.1.1.4[FS] |
| 2.1.1.1.4 | Prepare requisition | Complete | 5d | 27May08 02Jun08 | 02Jan08 08Jan08 | None | | None | | 2.1.1.1.3[FS] | 2.1.1.1.5[FS] |
| 2.1.1.1.5 | Circulate for signature | Complete | 5d | 02Jun08 03Jun08 | 09Jan08 15Jan08 | None | | None | | 2.1.1.1.4[FS] | 2.1.1.1.6[FS] |
| 2.1.1.1.6 | Prepare purchase order | Complete | 5d | 03Jun08 05Jun08 | 16Jan08 23Jan08 | None | | None | | 2.1.1.1.5[FS] | 2.1.1.1.7[FS] |
| 2.1.1.1.7 | PO Released for Title 2 for Site Prep Package | Complete | 0 | 09Jul08 09Jul08 | 24Jan08 24Jan08 | None | | None | | 2.1.1.1.6[FS] | 2.1.1.1.8[FS+5d] |
| 2.1.1.1.8 | Hold kickoff meeting | Complete | 1d | 18Dec07 18Dec07 | 03Dec07 03Dec07 | None | | None | | 1.1.4.3.6[FS]; 1.1.4.5.9[FS]; 2.1.1.1.7[FS+5d] | 2.1.1.1.9[FS]; 2.1.1.1.10[FS]; 2.1.1.1.11[FS] |
| 2.1.1.1.9 | Prepare drawings | Complete | 48d | 10Jul08 16Sep08 | 24Jan08 13Feb08 | None | | None | | 2.1.1.1.8[FS] | 2.1.1.1.12[FS] |
| 2.1.1.1.10 | Prepare specifications | Complete | 48d | 10Jul08 16Sep08 | 24Jan08 13Feb08 | None | | None | | 2.1.1.1.8[FS] | 2.1.1.1.12[FS] |
| 2.1.1.1.11 | Prepare cost estimate/schedule | Complete | 48d | 10Jul08 16Sep08 | 24Jan08 13Feb08 | None | | None | | 2.1.1.1.8[FS] | 2.1.1.1.12[FS] |
| 2.1.1.1.12 | Assemble, print, and distribute documents | Complete | 2d | 16Sep08 17Sep08 | 14Feb08 15Feb08 | None | | None | | 2.1.1.1.9[FS]; 2.1.1.1.10[FS]; 2.1.1.1.11[FS] | 2.1.1.1.13[FS] |
| 2.1.1.1.13 | Comment and compliance review | Complete | 5d | 17Sep08 26Sep08 | 18Feb08 22Feb08 | None | | None | | 2.1.1.1.12[FS] | 2.1.1.1.15[FS]; 2.1.1.1.16[FS]; 2.1.1.1.14[FS] |
| 2.1.1.1.14 | Revise drawings | Complete | 10d | 01Oct08 13Jan09 | 25Feb08 07Mar08 | None | | None | | 2.1.1.1.13[FS] | 2.1.1.1.17[FS] |
| 2.1.1.1.15 | Revise specifications | Complete | 10d | 01Oct08 13Jan09 | 25Feb08 07Mar08 | None | | None | | 2.1.1.1.13[FS] | 2.1.1.1.17[FS] |
| 2.1.1.1.16 | Revise cost estimate/schedule | Complete | 10d | 01Oct08 13Jan09 | 25Feb08 07Mar08 | None | | None | | 2.1.1.1.13[FS] | 2.1.1.1.17[FS] |
| 2.1.1.1.17 | Assemble, print, and distribute documents | Complete | 2d | 13Jan09 13Jan09 | 10Mar08 11Mar08 | None | | None | | 2.1.1.1.16[FS]; 2.1.1.1.15[FS]; 2.1.1.1.14[FS] | 2.1.1.1.18[FS] |
| 2.1.1.1.18 | Perform quality assurance review | Complete | 5d | 13Jan09 29Jan09 | 12Mar08 18Mar08 | None | | None | | 2.1.1.1.17[FS] | 2.1.1.1.19[FS] |
| 2.1.1.1.19 | Finalize documents | Complete | 5d | 02Feb09 09Mar09 | 19Mar08 25Mar08 | None | | None | | 2.1.1.1.18[FS] | 2.1.1.1.20[FS] |
| 2.1.1.1.20 | Assemble, print, and distribute documents | Complete | 2d | 10Mar09 10Mar09 | 26Mar08 27Mar08 | None | | None | | 2.1.1.1.19[FS] | 2.1.1.1.21[FS] |
| 2.1.1.1.21 | Site Prep Package Title 2 completed | Complete | 0 | 11Mar09 11Mar09 | 27Mar08 27Mar08 | None | | None | | 2.1.1.1.20[FS] | 2.1.1.3.1[FS] |
| 2.1.1.2 | Wetland Mitigation | Complete | 301d | 01Nov07 16Jan09 | 27Sep07 05Mar08 | None | | None | | | |
| 2.1.1.2.1 | Review preliminary wetland permit applications | Complete | 10d | 01Nov07 09Nov07 | 27Sep07 10Oct07 | None | | None | | 1.9.5.10[FS] | 2.1.1.5.1.3.2[SS]; 2.1.1.5.1.3.1[SS]; 2.1.1.5.1.1[SS]; 2.1.1.5.1.2[SS]; 2.1.1.2.2[FS] |
| 2.1.1.2.2 | Wetland permit submitted | Complete | 0 | 16Nov07 16Nov07 | 11Oct07 11Oct07 | None | | None | | 1.9.5.15[FS]; 2.1.1.2.1[FS] | 2.1.1.2.3[FS] |
| 2.1.1.2.3 | Review period | Complete | 20d | 01Jul08 23Jul08 | 02Jan08 30Jan08 | None | | None | | 2.1.1.2.2[FS] | 2.1.1.2.4[FS] |
| 2.1.1.2.4 | Incorporate comments | Complete | 5d | 24Jul08 28Jul08 | 31Jan08 06Feb08 | None | | None | | 2.1.1.2.3[FS] | 2.1.1.2.5[FS] |
| 2.1.1.2.5 | Purchase wetland credits | Complete | 20d | 01Oct08 16Jan09 | 07Feb08 05Mar08 | None | | None | | 2.1.1.2.4[FS] | 2.1.1.2.6[FS] |
| 2.1.1.2.6 | Wetland permit issued | Complete | 0 | 24Dec08 24Dec08 | 05Mar08 05Mar08 | None | | None | | 2.1.1.2.5[FS] | 2.1.1.4.1[FS] |
| 2.1.1.3 | Procurement Phase | Complete | 80d | 02Feb09 22May09 | 02Feb09 06Apr09 | None | | None | | | |
| 2.1.1.3.1 | Write requisition | Complete | 1d | 02Feb09 02Feb09 | 02Feb09 02Feb09 | None | | None | | 2.10.8.1[FS]; 1.9.5.15[FS]; 1.1.2.1.21[FS]; 2.1.1.1.21[FS] | 2.1.1.3.2[FS] |
| 2.1.1.3.2 | Circulate requisition | Complete | 5d | 03Feb09 03Feb09 | 03Feb09 09Feb09 | None | | None | | 2.1.1.3.1[FS] | 2.1.1.3.3[FS] |
| 2.1.1.3.3 | Prepare request for proposal | Complete | 5d | 04Feb09 08Mar09 | 10Feb09 16Feb09 | None | | None | | 2.1.1.3.2[FS] | 2.1.1.3.4[FS] |
| 2.1.1.3.4 | Issue RFP for Site Prep Package | Complete | 0 | 09Mar09 09Mar09 | 16Feb09 16Feb09 | None | | None | | 2.1.1.3.3[FS] | 2.1.1.3.5[FS+15d] |
| 2.1.1.3.5 | Review received proposals | Complete | 10d | 08Apr09 08Apr09 | 17Mar09 30Mar09 | None | | None | | 2.1.1.3.4[FS+15d] | 2.1.1.3.6[FS] |
| 2.1.1.3.6 | Prepare purchase order | Complete | 5d | 09Apr09 22May09 | 31Mar09 06Apr09 | None | | None | | 2.1.1.3.5[FS] | 2.1.1.3.7[FS] |
| 2.1.1.3.7 | Site preparation purchase order released | Complete | 0 | 22May09 22May09 | 06Apr09 06Apr09 | None | | None | | 2.1.1.3.6[FS] | 2.1.1.4.1[FS] |
| 2.1.1.4 | Build Phase | Complete | 383d | 22May09 30Nov10 | 07Apr09 29Mar11 | None | | None | | | |
| 2.1.1.4.1 | Notice to proceed - far detector site preparation package | Complete | 0 | 22May09 22May09 | 07Apr09 07Apr09 | None | | None | | 1.1.1.4.15[FS]; 2.1.1.3.7[FS]; 2.10.8.1[SS]; 2.1.4.1.2[FS]; 2.1.1.2.6[FS] | 2.1.1.5.2.2.1[SS+70d]; 2.1.1.5.2.2.2[SS+70d]; 2.1.1.5.2.1.3.1[SS+70d]; 2.1.1.5.2.1.3.2[SS+70d]; 2.1.1.5.2.1.2[SS+70d]; 2.1.1.5.2.1.3.3[FS]; 2.1.1.4.11.1[FS+75d]; 2.1.1.4.3[SS+70d]; 2.1.1.5.2.1.1[SS+70d]; 2.1.1.4.10.1[FS+70d]; 2.1.1.4.6[FS+70d]; 2.1.1.4.10.2[FS+70d]; 2.1.1.4.2[FS+70d] |
| 2.1.1.4.2 | Mobilize | Complete | 60d | 22May09 21Sep09 | 22May09 18Aug09 | None | | None | | 2.1.1.4.1[FS+70d] | 2.1.1.4.7[FS] |
| 2.1.1.4.3 | Build access road | Complete | 233d | 01Jul09 29Jul10 | 01Sep09 05Aug10 | None | | None | | 2.1.1.4.1[SS+70d]; 2.1.4.1.2[FS] | 2.1.1.4.4[FF+2d] |
| 2.1.1.4.4 | Pave access road | Complete | 47d | 01Sep09 30Nov10 | 26Feb10 05Aug10 | None | | None | | 2.1.1.4.3[FF+2d] | 2.1.1.4.7[FS] |
| 2.1.1.4.5 | Excavate site (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.1.4.6 | Utilities work | Complete | 85d | 10Jul09 30Nov09 | 09Oct09 27Oct10 | None | | None | | 2.1.1.4.1[FS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.4.7 | Substantial completion - far detector site preparation package | Complete | 0 | 30Nov10 30Nov10 | 05Aug10 05Aug10 | None | | None | | 2.1.1.4.2[FS]; 2.1.1.4.4[FS] | 2.1.1.4.9[FS]; 2.1.1.4.10.7[FF] |
| 2.1.1.4.8 | Perform punch list - far detector site preparation package (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.1.4.9 | Final acceptance - far detector site preparation package | Complete | 0 | 30Nov10 30Nov10 | 15Nov10 15Nov10 | None | | None | | 2.1.1.5.2.1.1[FS]; 2.1.1.5.2.1.3.2[FS]; 2.1.1.5.2.1.2[FS]; 2.1.1.5.2.1.3.1[FS]; 2.1.1.5.2.2.2[FS]; 2.1.1.5.2.2.1[FS]; 2.1.1.4.11.2[FS]; 2.1.1.4.7[FS]; 2.1.1.4.10.7[FS]; 2.1.1.4.6[FS] | 2.10.8.3[FS]; 2.1.2.5.23[FS]; 2.10.9.1[FS] |
| 2.1.1.4.10 | Contractor Costs | Complete | 356d | 01Jul09 30Nov10 | 02Sep09 29Mar11 | None | | None | | | |
| 2.1.1.4.10.1 | Phase 2 preconstruction services | Complete | 32d | 01Jul09 14Aug09 | 02Sep09 16Oct09 | None | | None | | 2.1.1.4.1[FS+70d] | |
| 2.1.1.4.10.2 | General conditions | Complete | 285d | 01Jul09 25Aug10 | 02Sep09 15Nov10 | None | | None | | 2.1.1.4.1[FS+70d] | 2.1.1.4.10.3[FF] |
| 2.1.1.4.10.3 | CM Fees | Complete | 285d | 01Jul09 30Nov10 | 02Sep09 15Nov10 | None | | None | | 2.1.1.4.10.2[FF] | 2.1.1.4.10.4[SS] |
| 2.1.1.4.10.4 | CM insurance | Complete | 303d | 01Jul09 31Jul09 | 02Sep09 15Nov10 | None | | None | | 2.1.1.4.10.3[SS] | 2.1.1.4.10.5[SS] |
| 2.1.1.4.10.5 | Bonds | Complete | 303d | 01Jul09 31Jul09 | 02Sep09 15Nov10 | None | | None | | 2.1.1.4.10.4[SS] | 2.1.1.4.10.6[SS] |
| 2.1.1.4.10.6 | Unforseen conditions for Phase 1 | Complete | 107d | 01Jul09 30Oct09 | 02Sep09 15Nov10 | None | | None | | 2.1.1.4.10.5[SS] | |
| 2.1.1.4.10.7 | Sales Tax - Build Phase - Site Prep Pkg | Complete | 20d | 02Nov09 01Sep10 | 12May10 09Jun10 | None | | None | | 2.1.1.4.7[FF] | 2.1.1.4.9[FS] |
| 2.1.1.4.10.8 | Tension rock anchors | Complete | 92d | 22Feb10 15Nov10 | 22Feb10 30Jun10 | None | | None | | | 2.1.2.5.8[FS] |
| 2.1.1.4.10.9 | Change Order 004 | Complete | 228d | 03May10 15Oct10 | 03May10 29Mar11 | None | | None | | | |
| 2.1.1.4.10.10 | Rock Claim Change 002 | Complete | 40d | 01Oct10 15Oct10 | 01Nov10 30Dec10 | None | | None | | | |
| 2.1.1.4.11 | Construction at Building Site | Complete | 300d | 20Jul09 27Sep10 | 10Sep09 11Nov10 | None | | None | | | |
| 2.1.1.4.11.1 | Excavate rock | Complete | 64d | 20Jul09 08Jul10 | 10Sep09 19Jan10 | None | | None | | 2.1.1.4.1[FS+75d] | 2.1.1.4.11.2[FS]; 2.1.2.5.9[SS+57d]; 2.1.2.5.3[FS-16d] |
| 2.1.1.4.11.2 | Construct concrete in rock - phase 1 | Complete | 64d | 26Apr10 27Sep10 | 09Jul10 11Nov10 | None | | None | | 2.1.1.4.11.1[FS] | 2.1.1.4.9[FS] |
| 2.1.1.5 | EDIA | Complete | 734d | 02Jan08 30Nov10 | 02Jan08 15Nov10 | None | | None | | | |
| 2.1.1.5.1 | Title 2/Procurement Phase Support | Complete | 352d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | | |
| 2.1.1.5.1.1 | PM Fee (Hines) | Complete | 318d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | 2.1.1.2.1[SS]; 2.1.1.1.1[SS] | 2.1.1.5.2.1.1[FS] |
| 2.1.1.5.1.2 | UMN Fee | Complete | 318d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | 2.1.1.2.1[SS]; 2.1.1.1.1[SS] | 2.1.1.5.2.1.2[FS] |
| 2.1.1.5.1.3 | Fermilab | Complete | 352d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | | |
| 2.1.1.5.1.3.1 | Fermilab Management | Complete | 318d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | 2.1.1.2.1[SS]; 2.1.1.1.1[SS] | 2.1.1.5.2.2.1[FS] |
| 2.1.1.5.1.3.2 | FESS Engineering | Complete | 318d | 02Jan08 22May09 | 02Jan08 06Apr09 | None | | None | | 2.1.1.2.1[SS]; 2.1.1.1.1[SS] | 2.1.1.5.2.2.2[FS] |
| 2.1.1.5.2 | Title 3 Phase Support | Complete | 382d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | | |
| 2.1.1.5.2.1 | Cooperative Agreement Recepient | Complete | 382d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | | |
| 2.1.1.5.2.1.1 | PM Fee (Hines) | Complete | 1d | 01Jun09 01Jun09 | 01Sep09 01Sep09 | None | | None | | 2.1.1.5.1.1[FS]; 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.5.2.1.2 | UMN Fee | Complete | 306d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | 2.1.1.5.1.2[FS]; 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.5.2.1.3 | A/E Firm | Complete | 278d | 26May09 01Jul10 | 26May09 15Nov10 | None | | None | | | |
| 2.1.1.5.2.1.3.1 | Office support | Complete | 306d | 26May09 01Jul10 | 26May09 15Nov10 | None | | None | | 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.5.2.1.3.2 | Resident engineer support | Complete | 306d | 26May09 01Jul10 | 26May09 15Nov10 | None | | None | | 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.5.2.1.3.3 | Supplemental A/E Support | Complete | 105d | 01Feb10 01Jul10 | 02Nov09 15Nov10 | None | | None | | 2.1.1.4.1[FS] | |
| 2.1.1.5.2.2 | Fermilab | Complete | 382d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | | |
| 2.1.1.5.2.2.1 | Fermilab Management | Complete | 306d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | 2.1.1.5.1.3.1[FS]; 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.1.5.2.2.2 | FESS Engineering | Complete | 306d | 26May09 30Nov10 | 26May09 15Nov10 | None | | None | | 2.1.1.5.1.3.2[FS]; 2.1.1.4.1[SS+70d] | 2.1.1.4.9[FS] |
| 2.1.2 | Far Detector Building | Complete | 969d | 01Dec07 10Oct11 | 30Oct07 10Oct11 | None | | None | | | |
| 2.1.2.1 | Design Phase | Complete | 318d | 01Dec07 11Mar09 | 30Oct07 26Aug09 | None | | None | | | |
| 2.1.2.1.1 | Prepare request for proposal for A/E | Complete | 2d | 01Dec07 04Dec07 | 30Oct07 31Oct07 | None | | None | | 1.1.2.3[FS]; 1.9.5.15[FS] | 2.1.2.1.2[FS]; 2.1.2.4.1.3[SS] |
| 2.1.2.1.2 | Issue request for proposal to A/E | Complete | 0 | 05Dec07 05Dec07 | 31Oct07 31Oct07 | None | | None | | 2.1.2.1.1[FS]; 1.1.4.1.3.3.14[FS]; 1.1.4.1.3.1.9[FS]; 1.1.4.1.3.2.18[FS] | 2.1.2.1.3[FS+10d] |
| 2.1.2.1.3 | Review received proposal | Complete | 5d | 10Dec07 17Dec07 | 15Nov07 21Nov07 | None | | None | | 2.1.2.1.2[FS+10d] | 2.1.2.1.4[FS] |
| 2.1.2.1.4 | Prepare requisition | Complete | 5d | 27May08 02Jun08 | 27May08 01Aug08 | None | | None | | 2.1.2.1.3[FS] | 2.1.2.4.1.1[SS]; 2.1.2.4.1.3.2[SS]; 2.1.2.4.1.3.1[SS]; 2.1.2.4.1.2[SS]; 2.1.2.1.5[FS] |
| 2.1.2.1.5 | Circulate for signature | Complete | 15d | 02Jun08 03Jun08 | 04Aug08 22Aug08 | None | | None | | 2.1.2.1.4[FS] | 2.1.2.1.6[FS] |
| 2.1.2.1.6 | Prepare purchase order | Complete | 5d | 03Jun08 05Jun08 | 25Aug08 29Aug08 | None | | None | | 2.1.2.1.5[FS] | 2.1.2.1.7[FS] |
| 2.1.2.1.7 | PO issued for Title 2 for Far Detector Building | Complete | 0 | 09Jul08 09Jul08 | 02Sep08 02Sep08 | None | | None | | 2.1.2.1.6[FS] | 1.1.4.7.1[FS]; 2.1.2.1.8[FS+5d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.2.1.8 | Hold kickoff meeting | Complete | 1d | 18Dec07 18Dec07 | 26Dec07 26Dec07 | None | | None | | 2.1.2.1.7[FS+5d]; 1.1.4.5.9[FS] | 2.1.2.1.11[FS]; 1.1.4.7.3[FS]; 1.1.4.7.2[FS]; 1.1.4.7.1[FS]; 2.1.2.1.9[FS]; 2.1.2.1.10[FS] |
| 2.1.2.1.9 | Prepare drawings (obsolete) | Complete | 1d | 02Sep08 02Sep08 | 02Sep08 24Nov08 | None | | None | | 2.1.2.1.8[FS] | 2.1.2.1.12[FS] |
| 2.1.2.1.10 | Prepare specifications (obsolete) | Complete | 1d | 02Sep08 02Sep08 | 02Sep08 29Sep08 | None | | None | | 2.1.2.1.8[FS] | 2.1.2.1.12[FS] |
| 2.1.2.1.11 | Prepare cost estimate/schedule (obsolete) | Complete | 1d | 02Sep08 02Sep08 | 02Sep08 29Sep08 | None | | None | | 2.1.2.1.8[FS] | 2.1.2.1.12[FS] |
| 2.1.2.1.12 | Assemble, print, and distribute documents (obsolete) | Complete | 1d | 02Sep08 02Sep08 | 25Nov08 26Nov08 | None | | None | | 2.1.2.1.9[FS]; 2.1.2.1.10[FS]; 2.1.2.1.11[FS] | 2.1.2.1.13[FS] |
| 2.1.2.1.13 | Comment and compliance review (obsolete) | Complete | 1d | 02Sep08 02Sep08 | 01Dec08 12Dec08 | None | | None | | 2.1.2.1.12[FS] | |
| 2.1.2.1.14 | Revise drawings | Complete | 30d | 02Dec08 15Jan09 | 04Jun09 16Jul09 | None | | None | | 1.1.4.7.5[FS]; 2.10.9.7[FS] | 2.1.2.1.17[FS]; 2.1.2.1.15[SS]; 2.1.2.1.16[SS] |
| 2.1.2.1.15 | Revise specifications | Complete | 20d | 02Dec08 15Jan09 | 04Jun09 01Jul09 | None | | None | | 2.10.9.7[FS]; 1.1.4.7.5[FS]; 2.1.2.1.14[SS] | 2.1.2.1.17[FS] |
| 2.1.2.1.16 | Revise cost estimate | Complete | 20d | 02Dec08 15Jan09 | 04Jun09 01Jul09 | None | | None | | 2.10.9.7[FS]; 2.1.2.1.14[SS]; 1.1.4.7.5[FS] | 2.1.2.1.17[FS] |
| 2.1.2.1.17 | Assemble, print, and distribute documents | Complete | 2d | 16Jan09 16Jan09 | 17Jul09 20Jul09 | None | | None | | 2.1.2.1.14[FS]; 2.1.2.1.15[FS]; 2.1.2.1.16[FS]; 1.1.4.7.6[FS] | 2.1.2.1.18[FS] |
| 2.1.2.1.18 | Perform quality assurance review | Complete | 5d | 16Jan09 30Jan09 | 21Jul09 27Jul09 | None | | None | | 2.1.2.1.17[FS] | 2.1.2.1.19[FS] |
| 2.1.2.1.19 | Finalize documents | Complete | 20d | 02Feb09 09Mar09 | 28Jul09 24Aug09 | None | | None | | 2.1.2.1.18[FS] | 2.1.2.1.20[FS] |
| 2.1.2.1.20 | Assemble, print, and distribute documents | Complete | 2d | 10Mar09 10Mar09 | 25Aug09 26Aug09 | None | | None | | 2.1.2.1.19[FS] | 2.1.2.1.21[FS] |
| 2.1.2.1.21 | Far Detector Building Title 2 completed | Complete | 0 | 11Mar09 11Mar09 | 26Aug09 26Aug09 | None | | None | | 2.1.2.1.20[FS] | 2.1.2.4.2.2.1[FS]; 2.1.2.4.2.2.2[FS]; 2.1.2.2.1[FS]; 2.1.2.4.2.1.1[FS]; 2.1.4.1.3[FS]; 2.1.2.4.2.1.2[FS] |
| 2.1.2.2 | Procurement Phase | Complete | 145d | 02Feb09 25Aug09 | 27Aug09 16Nov09 | None | | None | | | |
| 2.1.2.2.1 | Write requisition | Complete | 2d | 02Feb09 02Feb09 | 27Aug09 28Aug09 | None | | None | | 1.9.4.2[FS]; 2.1.2.1.21[FS] | 2.1.2.2.2[FS] |
| 2.1.2.2.2 | Circulate requisition | Complete | 5d | 03Feb09 03Feb09 | 31Aug09 04Sep09 | None | | None | | 2.1.2.2.1[FS] | 2.1.2.2.3[FS] |
| 2.1.2.2.3 | Prepare request for proposal | Complete | 5d | 04Feb09 08Mar09 | 08Sep09 14Sep09 | None | | None | | 2.1.2.2.2[FS] | 2.1.2.2.4[FS] |
| 2.1.2.2.4 | Issue RFP for Far Detector Building | Complete | 0 | 09Mar09 09Mar09 | 14Sep09 14Sep09 | None | | None | | 2.1.2.2.3[FS] | 2.1.2.2.5[FS+15d] |
| 2.1.2.2.5 | Review received proposals | Complete | 10d | 08Apr09 08Apr09 | 27Oct09 09Nov09 | None | | None | | 2.1.2.2.4[FS+15d] | 2.1.2.2.6[FS] |
| 2.1.2.2.6 | Prepare purchase order | Complete | 5d | 09Apr09 24Aug09 | 10Nov09 16Nov09 | None | | None | | 2.1.2.2.5[FS] | 2.1.2.2.7[FS] |
| 2.1.2.2.7 | Purchase order released - far detector building | Complete | 0 | 25Aug09 25Aug09 | 16Nov09 16Nov09 | None | | None | | 2.1.2.2.6[FS]; 2.10.8.1[FS] | 2.1.2.5.1[FS+43d]; 2.1.2.4.2.1.3.1[FS]; 2.1.2.4.2.1.3.2[FS] |
| 2.1.2.3 | Build Phase (OBSOLETE) | Complete | 15d | 01Jun09 19Jun09 | 01Jun09 19Jun09 | None | | None | | | |
| 2.1.2.3.1 | Detector Enclosure/Assembly Area Concrete (OBSOLETE) | Complete | 7d | 01Jun09 09Jun09 | 01Jun09 09Jun09 | None | | None | | | |
| 2.1.2.3.1.1 | Notice to proceed - DE/AA concrete (OBSOLETE) | Complete | 0 | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | 2.1.2.3.1.2[FS] |
| 2.1.2.3.1.2 | Mobilize (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | 2.1.2.3.1.1[FS] | 2.1.2.3.1.3[FS] |
| 2.1.2.3.1.3 | Construct concrete base slab (OBSOLETE) | Complete | 1d | 02Jun09 02Jun09 | 02Jun09 02Jun09 | None | | None | | 2.1.2.3.1.2[FS] | 2.1.2.3.1.4[FS]; 2.1.2.3.2.6.1[FS] |
| 2.1.2.3.1.4 | Construct concrete walls in rock (OBSOLETE) | Complete | 1d | 03Jun09 03Jun09 | 03Jun09 03Jun09 | None | | None | | 2.1.2.3.1.3[FS] | 2.1.2.3.1.5[FS]; 2.1.2.3.1.6[FS] |
| 2.1.2.3.1.5 | Construct concrete walls above rock (OBSOLETE) | Complete | 1d | 04Jun09 04Jun09 | 04Jun09 04Jun09 | None | | None | | 2.1.2.3.1.4[FS] | 2.1.2.3.1.7[FS] |
| 2.1.2.3.1.6 | Construct concrete walls/slab (OBSOLETE) | Complete | 1d | 04Jun09 04Jun09 | 04Jun09 04Jun09 | None | | None | | 2.1.2.3.1.4[FS] | 2.1.2.3.1.7[FS] |
| 2.1.2.3.1.7 | Construct roof system (OBSOLETE) | Complete | 1d | 05Jun09 05Jun09 | 05Jun09 05Jun09 | None | | None | | 2.1.2.3.1.6[FS]; 2.1.2.3.1.5[FS] | 2.1.2.3.1.8[FS]; 2.1.2.3.1.9[FS]; 2.1.2.3.2.12.2[FS] |
| 2.1.2.3.1.8 | Install roof membrane (OBSOLETE) | Complete | 1d | 08Jun09 08Jun09 | 08Jun09 08Jun09 | None | | None | | 2.1.2.3.1.7[FS] | 2.1.2.3.1.10[FS]; 2.1.2.3.2.11.1[FS]; 2.1.2.3.2.10.1[FS]; 2.1.2.3.2.12.8[FS] |
| 2.1.2.3.1.9 | Install secondary containment system (OBSOLETE) | Complete | 1d | 08Jun09 08Jun09 | 08Jun09 08Jun09 | None | | None | | 2.1.2.3.1.7[FS] | 2.1.2.3.1.11[FS]; 2.1.2.3.2.3[FS] |
| 2.1.2.3.1.10 | Install shielding (OBSOLETE) | Complete | 1d | 09Jun09 09Jun09 | 09Jun09 09Jun09 | None | | None | | 2.1.2.3.1.8[FS] | 2.1.2.3.1.11[FS] |
| 2.1.2.3.1.11 | Detector enclosure/assembly area concrete completed (OBSOLETE) | Complete | 0 | 09Jun09 09Jun09 | 09Jun09 09Jun09 | None | | None | | 2.1.2.3.1.10[FS]; 2.1.2.3.1.9[FS] | 2.1.2.3.2.1[FS]; 2.1.2.3.2.8.1[FS] |
| 2.1.2.3.2 | Building (OBSOLETE) | Complete | 12d | 03Jun09 18Jun09 | 03Jun09 18Jun09 | None | | None | | | |
| 2.1.2.3.2.1 | Mobilize (OBSOLETE) | Complete | 1d | 10Jun09 10Jun09 | 10Jun09 10Jun09 | None | | None | | 2.1.2.3.1.11[FS] | 2.1.2.3.2.12.5[FS]; 2.1.2.3.2.12.7[FS]; 2.1.2.3.2.12.1[FS]; 2.1.2.3.2.12.3[FS]; 2.1.2.3.2.2[FS] |
| 2.1.2.3.2.2 | Miscellaneous concrete (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.1[FS] | 2.1.2.3.2.3[FS] |
| 2.1.2.3.2.3 | Structural steel (OBSOLETE) | Complete | 1d | 12Jun09 12Jun09 | 12Jun09 12Jun09 | None | | None | | 2.1.2.3.1.9[FS]; 2.1.2.3.2.2[FS] | 2.1.2.3.2.4[FS]; 2.1.2.3.2.12.6[FS]; 2.1.2.3.2.12.4[FS]; 2.1.2.3.2.12.8[FS] |
| 2.1.2.3.2.4 | Service building shell (OBSOLETE) | Complete | 1d | 15Jun09 15Jun09 | 15Jun09 15Jun09 | None | | None | | 2.1.2.3.2.3[FS] | 2.1.2.3.2.5[FS]; 2.1.2.3.2.7.1[FS]; 2.1.2.3.2.9.1[FS]; 2.1.2.3.2.11.1[FS] |
| 2.1.2.3.2.5 | Architectural finishes (OBSOLETE) | Complete | 1d | 16Jun09 16Jun09 | 16Jun09 16Jun09 | None | | None | | 2.1.2.3.2.4[FS] | 2.1.2.3.3[FS] |
| 2.1.2.3.2.6 | Detector Enclosure/Assembly Area Electrical (OBSOLETE) | Complete | 2d | 03Jun09 04Jun09 | 03Jun09 04Jun09 | None | | None | | | |
| 2.1.2.3.2.6.1 | Rough-ins (OBSOLETE) | Complete | 1d | 03Jun09 03Jun09 | 03Jun09 03Jun09 | None | | None | | 2.1.2.3.1.3[FS] | 2.1.2.3.2.12.2[FS]; 2.1.2.3.2.6.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.2.3.2.6.2 | Trim-outs (OBSOLETE) | Complete | 1d | 04Jun09 04Jun09 | 04Jun09 04Jun09 | None | | None | | 2.1.2.3.2.6.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.7 | Service Building Electrical (OBSOLETE) | Complete | 2d | 16Jun09 17Jun09 | 16Jun09 17Jun09 | None | | None | | | |
| 2.1.2.3.2.7.1 | Rough-ins (OBSOLETE) | Complete | 1d | 16Jun09 16Jun09 | 16Jun09 16Jun09 | None | | None | | 2.1.2.3.2.4[FS] | 2.1.2.3.2.12.4[FS]; 2.1.2.3.2.12.6[FS]; 2.1.2.3.2.7.2[FS] |
| 2.1.2.3.2.7.2 | Trim-outs (OBSOLETE) | Complete | 1d | 17Jun09 17Jun09 | 17Jun09 17Jun09 | None | | None | | 2.1.2.3.2.7.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.8 | Detector Enclosure/Assembly Area Mechanical (OBSOLETE) | Complete | 2d | 10Jun09 11Jun09 | 10Jun09 11Jun09 | None | | None | | | |
| 2.1.2.3.2.8.1 | Rough-ins (OBSOLETE) | Complete | 1d | 10Jun09 10Jun09 | 10Jun09 10Jun09 | None | | None | | 2.1.2.3.1.11[FS] | 2.1.2.3.2.8.2[FS] |
| 2.1.2.3.2.8.2 | Trim-outs (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.8.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.9 | Service Building Mechanical (OBSOLETE) | Complete | 2d | 16Jun09 17Jun09 | 16Jun09 17Jun09 | None | | None | | | |
| 2.1.2.3.2.9.1 | Rough-ins (OBSOLETE) | Complete | 1d | 16Jun09 16Jun09 | 16Jun09 16Jun09 | None | | None | | 2.1.2.3.2.4[FS] | 2.1.2.3.2.9.2[FS] |
| 2.1.2.3.2.9.2 | Trim-outs (OBSOLETE) | Complete | 1d | 17Jun09 17Jun09 | 17Jun09 17Jun09 | None | | None | | 2.1.2.3.2.9.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.10 | Detector Enclosure/Assembly Area Fire Protection (OBSOLETE) | Complete | 2d | 09Jun09 10Jun09 | 09Jun09 10Jun09 | None | | None | | | |
| 2.1.2.3.2.10.1 | Rough-ins (OBSOLETE) | Complete | 1d | 09Jun09 09Jun09 | 09Jun09 09Jun09 | None | | None | | 2.1.2.3.1.8[FS] | 2.1.2.3.2.10.2[FS] |
| 2.1.2.3.2.10.2 | Trim-out (OBSOLETE) | Complete | 1d | 10Jun09 10Jun09 | 10Jun09 10Jun09 | None | | None | | 2.1.2.3.2.10.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.11 | Service Building Fire Protection (OBSOLETE) | Complete | 2d | 16Jun09 17Jun09 | 16Jun09 17Jun09 | None | | None | | | |
| 2.1.2.3.2.11.1 | Rough-ins (OBSOLETE) | Complete | 1d | 16Jun09 16Jun09 | 16Jun09 16Jun09 | None | | None | | 2.1.2.3.1.8[FS]; 2.1.2.3.2.4[FS] | 2.1.2.3.2.11.2[FS] |
| 2.1.2.3.2.11.2 | Trim-out (OBSOLETE) | Complete | 1d | 17Jun09 17Jun09 | 17Jun09 17Jun09 | None | | None | | 2.1.2.3.2.11.1[FS] | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.12 | Conveying Equipment (OBSOLETE) | Complete | 6d | 11Jun09 18Jun09 | 11Jun09 18Jun09 | None | | None | | | 2.1.2.3.2.18[FS] |
| 2.1.2.3.2.12.1 | Procure elevator (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.1[FS] | 2.1.2.3.2.12.2[FS] |
| 2.1.2.3.2.12.2 | Install elevator (OBSOLETE) | Complete | 1d | 12Jun09 12Jun09 | 12Jun09 12Jun09 | None | | None | | 2.1.2.3.2.12.1[FS]; 2.1.2.3.1.7[FS]; 2.1.2.3.2.6.1[FS] | 2.1.2.3.3[FS] |
| 2.1.2.3.2.12.3 | Procure module handiling crane (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.1[FS] | 2.1.2.3.2.12.4[FS] |
| 2.1.2.3.2.12.4 | Install module handiling crane (OBSOLETE) | Complete | 1d | 17Jun09 17Jun09 | 17Jun09 17Jun09 | None | | None | | 2.1.2.3.2.12.3[FS]; 2.1.2.3.2.3[FS]; 2.1.2.3.2.7.1[FS] | 2.1.2.3.2.12.6[FS] |
| 2.1.2.3.2.12.5 | Procure general building crane (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.1[FS] | 2.1.2.3.2.12.6[FS] |
| 2.1.2.3.2.12.6 | Install general building crane (OBSOLETE) | Complete | 1d | 18Jun09 18Jun09 | 18Jun09 18Jun09 | None | | None | | 2.1.2.3.2.12.4[FS]; 2.1.2.3.2.3[FS]; 2.1.2.3.2.12.5[FS]; 2.1.2.3.2.7.1[FS] | 2.1.2.3.3[FS] |
| 2.1.2.3.2.12.7 | Procure movable access platforms (OBSOLETE) | Complete | 1d | 11Jun09 11Jun09 | 11Jun09 11Jun09 | None | | None | | 2.1.2.3.2.1[FS] | 2.1.2.3.2.12.8[FS] |
| 2.1.2.3.2.12.8 | Install movable access platforms (OBSOLETE) | Complete | 1d | 15Jun09 15Jun09 | 15Jun09 15Jun09 | None | | None | | 2.1.2.3.2.12.7[FS]; 2.1.2.3.2.3[FS]; 2.1.2.3.1.8[FS] | |
| 2.1.2.3.2.18 | Outfitting completed (OBSOLETE) | Complete | 0 | 18Jun09 18Jun09 | 18Jun09 18Jun09 | None | | None | | 2.1.2.3.2.7.2[FS]; 2.1.2.3.2.6.2[FS]; 2.1.2.3.2.12[FS]; 2.1.2.3.2.11.2[FS]; 2.1.2.3.2.10.2[FS]; 2.1.2.3.2.8.2[FS]; 2.1.2.3.2.9.2[FS] | 2.1.2.3.3[FS] |
| 2.1.2.3.3 | Benefical occupancy - far detector building construction (OBSOLETE) | Complete | 0 | 18Jun09 18Jun09 | 18Jun09 18Jun09 | None | | None | | 2.1.2.3.2.12.2[FS]; 2.1.2.3.2.5[FS]; 2.1.2.3.2.12.6[FS]; 2.1.2.3.2.18[FS] | 2.9.4.2.5.2[FS]; 2.1.2.3.4[FS]; 2.4.5.3.4.2[FS]; 2.9.3.1.6.1[FS]; 2.9.4.1.5[FS]; 2.9.2.3.2[FS-250d]; 2.9.2.3.4[FS-250d]; 2.9.2.3.3[FS-250d]; 2.9.2.3.1[FS-250d]; 2.6.3.5.4.1[FS]; 2.9.4.2.4.1[FS]; 2.9.4.1.3[FS]; 2.9.4.1.4[FS]; 2.9.4.2.5.1[FS]; 2.9.4.2.4.2[FS]; 2.9.4.7.1[FS]; 2.9.4.1.2[FS-55d]; 2.9.4.1.1[FS]; 2.9.4.1.9.1[FS]; 2.7.1.10.4.1.7[FS]; 2.9.4.2.3.2[FS]; 2.9.4.2.3.1[FS]; 2.9.4.2.2.2[FS]; 2.9.4.2.2.1[FS]; 2.9.4.1.10.1.1[FS-60d]; 2.9.4.4.1[FS]; 2.9.4.1.10.1.2[FS]; 2.9.2.1.1[FS]; 2.9.3.4.4[FS]; 2.9.3.2.3[FS]; 2.9.4.1.7.1[FS]; 2.9.4.2.1.1[FS]; 2.9.4.1.8.1[FS]; 2.9.2.2.21.6[FS]; 2.9.2.2.22.6[FS] |
| 2.1.2.3.4 | Test/ balance and perform punch list - far detector building construction (OBSOLETE) | Complete | 1d | 19Jun09 19Jun09 | 19Jun09 19Jun09 | None | | None | | 2.1.2.3.3[FS] | 2.1.2.3.5[FS] |
| 2.1.2.3.5 | Final acceptance - far detector building construction (OBSOLETE) | Complete | 0 | 19Jun09 19Jun09 | 19Jun09 19Jun09 | None | | None | | 2.1.2.3.4[FS] | 2.7.2.8.1[FS]; 2.10.8.3[FS]; 2.10.9.1[FS]; 2.7.4.1.1.1[FS-100d]; 2.7.4.1.2.1[FS-100d]; 2.7.4.2.1[FS] |
| 2.1.2.4 | EDIA | Complete | 813d | 09Jul08 30Sep11 | 02Feb09 15Apr11 | None | | None | | | |
| 2.1.2.4.1 | Title 2/Procurement Phase Support | Complete | 285d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | | |
| 2.1.2.4.1.1 | PM Fee (Hines) | Complete | 203d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | 2.10.9.7[FS]; 2.1.2.1.4[SS]; 1.9.5.10[FS] | 2.1.2.4.2.1.1[FS] |
| 2.1.2.4.1.2 | UMN Fee | Complete | 203d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | 2.10.9.7[FS]; 2.1.2.1.4[SS]; 1.9.5.10[FS] | 2.1.2.4.2.1.2[FS] |
| 2.1.2.4.1.3 | Fermilab | Complete | 285d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | 2.1.2.1.1[SS] | |
| 2.1.2.4.1.3.1 | Fermilab Management | Complete | 203d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | 2.10.9.7[FS]; 2.1.2.1.4[SS] | 2.1.2.4.2.2.1[FS] |
| 2.1.2.4.1.3.2 | FESS Engineering | Complete | 203d | 09Jul08 25Aug09 | 02Feb09 16Nov09 | None | | None | | 2.10.9.7[FS]; 2.1.2.1.4[SS] | 2.1.2.4.2.2.2[FS] |
| 2.1.2.4.2 | Title 3 Phase Support | Complete | 557d | 16Jul09 30Sep11 | 16Jul09 15Apr11 | None | | None | | | |
| 2.1.2.4.2.1 | Cooperative Agreement Recepient | Complete | 557d | 16Jul09 30Sep11 | 16Jul09 15Feb11 | None | | None | | | |
| 2.1.2.4.2.1.1 | PM Fee (Hines) (OBSOLETE) | Complete | 1d | 16Jul09 16Jul09 | 16Jul09 16Jul09 | None | | None | | 2.1.2.4.1.1[FS]; 2.1.2.1.21[FS]; 1.9.5.15[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.2.4.2.1.2 | UMN Fee | Complete | 332d | 01Sep09 30Sep11 | 16Oct09 15Feb11 | None | | None | | 1.9.5.15[FS]; 2.1.2.5.1[FS]; 2.1.2.4.1.2[FS]; 2.1.2.1.21[FS] | 2.1.2.5.23[FS] |
| 2.1.2.4.2.1.3 | A/E Firm | Complete | 187d | 01Sep09 01Jun10 | 01Sep09 01Jun10 | None | | None | | | |
| 2.1.2.4.2.1.3.1 | Office support | Complete | 154d | 01Sep09 01Jun10 | 01Sep09 01Jun10 | None | | None | | 2.1.2.5.1[FS]; 1.9.5.15[FS]; 2.1.2.2.7[FS] | 2.1.2.5.23[FS] |
| 2.1.2.4.2.1.3.2 | Resident engineer support | Complete | 154d | 01Sep09 01Jun10 | 01Sep09 01Jun10 | None | | None | | 2.1.2.5.1[FS]; 1.9.5.15[FS]; 2.1.2.2.7[FS] | 2.1.2.5.23[FS] |
| 2.1.2.4.2.1.4 | UMN Administrative Support | Complete | 229d | 01Feb10 30Sep10 | 01Oct09 30Sep10 | None | | None | | | |
| 2.1.2.4.2.2 | Fermilab | Complete | 524d | 01Sep09 30Sep11 | 16Oct09 15Apr11 | None | | None | | | |
| 2.1.2.4.2.2.1 | Fermilab Management | Complete | 332d | 01Sep09 30Sep11 | 16Oct09 15Feb11 | None | | None | | 2.1.2.4.1.3.1[FS]; 2.1.2.1.21[FS]; 1.9.5.15[FS]; 2.1.2.5.1[FS] | 2.1.2.5.23[FS] |
| 2.1.2.4.2.2.2 | FESS Engineering | Complete | 332d | 01Sep09 30Sep11 | 16Oct09 15Feb11 | None | | None | | 2.1.2.4.1.3.2[FS]; 2.1.2.1.21[FS]; 1.9.5.15[FS]; 2.1.2.5.1[FS] | 2.1.2.5.23[FS] |
| 2.1.2.4.2.2.3 | A/E Firm (MIE-Funded) | Complete | 251d | 02Jul10 30Jun11 | 01Jul10 15Apr11 | None | | None | | | |
| 2.1.2.4.2.2.3.1 | Independent fire protection review | Complete | 199d | 02Jul10 04Jan11 | 01Jul10 15Apr11 | None | | None | | | |
| 2.1.2.4.2.2.3.2 | Office support | Complete | 199d | 02Jul10 30Jun11 | 01Jul10 15Apr11 | None | | None | | | |
| 2.1.2.4.2.2.3.3 | Resident engineer support - oversight | Complete | 199d | 02Jul10 30Jun11 | 01Jul10 15Apr11 | None | | None | | | |
| 2.1.2.5 | Far Detector Building - Build Phase II | Complete | 535d | 25Aug09 10Oct11 | 01Oct09 10Oct11 | None | | None | | | |
| 2.1.2.5.1 | Notice to proceed - far detector building- phase II | Complete | 0 | 25Aug09 25Aug09 | 16Oct09 16Oct09 | None | | None | | 2.1.2.2.7[FS+43d] | 2.1.2.5.9[FS]; 2.1.2.5.18[FS+64d]; 2.1.2.5.3[FS]; 2.1.2.5.24.4[SS]; 2.1.2.5.24.5[SS]; 2.1.2.5.24.3[SS]; 2.1.2.4.2.1.2[FS]; 2.1.2.5.24.7[FS]; 2.1.2.4.2.1.3.1[FS]; 2.1.2.4.2.1.3.2[FS]; 2.1.2.4.2.2.1[FS]; 2.1.2.4.2.2.2[FS]; 2.1.4.4.7[FS]; 2.1.4.4.8[FS]; 2.1.2.5.24.1[SS]; 2.1.2.5.24.2[SS]; 2.1.2.5.2[FS] |
| 2.1.2.5.2 | Mobilize | Complete | 188d | 01Oct09 01Oct09 | 16Oct09 19Jul10 | None | | None | | 2.1.2.5.1[FS] | |
| 2.1.2.5.3 | Construct Concrete Footings & Slabs | Complete | 252d | 18Sep09 20Oct10 | 22Dec09 22Dec10 | None | | None | | 2.1.2.5.1[FS]; 2.1.1.4.11.1[FS-16d] | 2.1.2.5.22[FS]; 2.1.2.5.4[FF-27d] |
| 2.1.2.5.4 | Construct Concrete Above Rock - walls & decks | Complete | 53d | 15Jun10 15Nov10 | 30Jun10 23Nov10 | None | | None | | 2.1.2.5.3[FF-27d] | 2.1.2.5.22[FS]; 2.1.2.5.14[SS]; 2.1.2.5.5[SS+1d]; 2.1.2.5.8[FS] |
| 2.1.2.5.5 | Construct Roof Structure for Detector Enclosure | Complete | 37d | 15Jun10 15Oct10 | 05Aug10 08Oct10 | None | | None | | 2.1.2.5.4[SS+1d] | 2.1.2.5.6[FF+4d]; 2.1.2.5.6[SS+22d]; 2.1.2.5.8[FS] |
| 2.1.2.5.6 | Install Roof Membrane for Detector Enclosure | Complete | 5d | 05Oct10 20Dec10 | 13Oct10 15Nov10 | None | | None | | 2.1.2.5.5[FF+4d]; 2.1.2.5.5[SS+22d] | 2.1.2.5.7[FF+5d]; 2.1.2.5.8[FS] |
| 2.1.2.5.7 | Install Shielding for Detector Enclosure | Complete | 197d | 23Nov09 31Jan11 | 23Nov09 31Jan11 | None | | None | | 2.1.2.5.6[FF+5d] | 2.1.2.5.25[FS]; 2.1.2.5.8[FS] |
| 2.1.2.5.8 | Detector Enclosure Complete | Complete | 0 | 01Sep11 01Sep11 | 09Feb11 09Feb11 | None | | None | | 2.1.1.4.10.8[FS]; 2.1.2.5.25[FS]; 2.1.2.5.7[FS]; 2.1.2.5.6[FS]; 2.1.2.5.5[FS]; 2.1.2.5.4[FS] | 2.1.2.5.19[FF] |
| 2.1.2.5.9 | Service Building Foundations | Complete | 38d | 15Oct09 11Aug10 | 02Dec09 29Jan10 | None | | None | | 2.1.2.5.1[FS]; 2.1.1.4.11.1[SS+57d] | 2.1.2.5.10[SS+19d] |
| 2.1.2.5.10 | Structural Steel | Complete | 38d | 27Oct09 17Sep10 | 04Jan10 25Feb10 | None | | None | | 2.1.2.5.9[SS+19d] | 2.1.2.5.11[FF+20d] |
| 2.1.2.5.11 | Service Building Shell | Complete | 174d | 18Nov09 01Apr11 | 04Jan10 16Apr10 | None | | None | | 2.1.2.5.10[FF+20d] | 2.1.2.5.15[SS]; 2.1.2.5.13[SS+3d]; 2.1.2.5.17[FS-98d] |
| 2.1.2.5.12 | Detector Enclosure/Assembly Area Electrical | Complete | 156d | 10Jun10 15Apr11 | 10Jun10 25Jan11 | None | | None | | | 2.1.2.5.22[FS-4d]; 2.1.2.5.16[SS+1d]; 2.1.2.5.20[SS] |
| 2.1.2.5.13 | Service Building Electrical | Complete | 222d | 02Nov09 15Apr11 | 07Jan10 29Dec10 | None | | None | | 2.1.2.5.11[SS+3d] | 2.1.2.5.22[FS-12d] |
| 2.1.2.5.14 | Detector Enclosure/Assembly Area Mechanical | Complete | 215d | 15Feb10 03Mar11 | 01Apr10 08Feb11 | None | | None | | 2.1.2.5.4[SS] | 2.1.2.5.22[FS] |
| 2.1.2.5.15 | Service Building Mechanical | Complete | 129d | 09Nov09 03Mar11 | 04Jan10 06Jul10 | None | | None | | 2.1.2.5.11[SS] | 2.1.2.5.22[FS] |
| 2.1.2.5.16 | Detector Enclosure/Assembly Area Fire Protection | Complete | 125d | 15Sep10 07Mar11 | 03Sep10 07Mar11 | None | | None | | 2.1.2.5.12[SS+1d] | 2.1.2.5.22[FS+1d]; 2.1.2.5.17[FF] |
| 2.1.2.5.17 | Service Building Fire Protection | Complete | 100d | 05Apr10 07Mar11 | 16Sep10 10Feb11 | None | | None | | 2.1.2.5.11[FS-98d]; 2.1.2.5.16[FF] | 2.1.2.5.22[FS+1d] |
| 2.1.2.5.18 | Conveying Equipment - Elevators, Access Platform, & OH Crane | Complete | 143d | 05Apr10 08Mar11 | 03May10 17Dec10 | None | | None | | 2.1.2.5.1[FS+64d] | 2.1.2.5.22[FS] |
| 2.1.2.5.19 | Site Work at Building | Complete | 78d | 15Oct09 11Jul11 | 12Oct10 04Feb11 | None | | None | | 2.1.2.5.8[FF] | 2.1.2.5.23[FS] |
| 2.1.2.5.20 | Utility Work at Building | Complete | 45d | 02Aug10 15Nov10 | 22Mar10 23Nov10 | None | | None | | 2.1.2.5.12[SS] | 2.1.2.5.22[FS] |
| 2.1.2.5.21 | Benefical occupancy - far detector building construction | Complete | 0 | 13Apr11 13Apr11 | 15Oct10 15Oct10 | None | | None | | | 2.1.2.5.22[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.2.5.22 | Beneficial occupancy (Substantial completion) - far detector building construction | Complete | 0 | 13Apr11 13Apr11 | 30Jun11 30Jun11 | None | | None | | 2.1.2.5.16[FS+1d]; 2.1.2.5.12[FS-4d]; 2.1.2.5.4[FS]; 2.1.2.5.3[FS]; 2.1.2.5.15[FS]; 2.1.2.5.13[FS-12d]; 2.1.2.5.14[FS]; 2.1.2.5.21[FS]; 2.1.2.5.20[FS]; 2.1.2.5.17[FS+1d]; 2.1.2.5.18[FS] | 2.9.1.4.8[FS]; 2.9.2.2.21.6[FS]; 2.6.3.5.4.1[FS]; 2.9.4.2.3.2[FS]; 2.9.4.1.5[FS]; 2.9.4.2.3.1[FS]; 2.9.4.4.1[FS]; 2.9.4.1.10.1.1[FS-60d]; 2.9.4.2.5.2[FS]; 2.9.4.1.3[FS]; 2.9.4.1.9.1[FS]; 2.9.4.2.4.1[FS]; 2.9.4.2.2.2[FS]; 2.9.4.7.1[FS]; 2.9.2.3.1[FS-250d]; 2.9.4.1.10.1.2[FS]; 2.9.4.2.2.1[FS]; 2.9.4.1.8.1[FS]; 2.9.4.2.4.2[FS]; 2.9.4.5.0.7[FS]; 2.9.2.3.2[FS-250d]; 2.9.2.3.4[FS-250d]; 2.9.3.2.3[FS]; 2.9.4.1.7.1[FS]; 2.9.4.1.2[FS]; 2.9.2.1.1[FS]; 2.9.4.2.5.1[FS]; 2.1.5.3.14.1[FS]; 2.1.5.3.14.2[FS]; 2.9.3.1.6.1[FS]; 2.9.4.1.4[FS]; 2.9.2.3.3[FS-250d]; 2.9.4.2.1.1[FS]; 2.9.2.2.22.6[FS]; 2.9.4.1.22[FS]; 2.9.4.2.5.11[FS]; 2.9.4.2.6.2[FS]; 2.9.4.2.6.1[FS]; 2.4.5.3.4.2[FS]; 2.7.1.10.4.1.7[FS]; 2.9.4.1.15[FS]; 2.9.4.1.9.5[FS]; 2.1.5.3.16[FS]; 2.9.4.1.14[FS]; 2.1.7.1.4[FS]; 2.9.4.1.20[FS]; 2.9.4.1.19[FS]; 2.9.4.1.12[FS]; 2.9.4.1.21[FS]; 2.9.4.1.17.1[FS]; 2.9.4.1.18[FS]; 2.9.4.1.17.5[FS]; 2.9.4.1.17.2[FS]; 2.1.2.5.23[FS]; 2.9.3.4.4[FS]; 2.9.4.1.1[FS]; 2.1.5.3.18[FS]; 2.1.5.3.17[FS]; 2.9.1.6.2.1[FS+17d]; 2.9.1.6.2.2[FS+17d]; 2.9.6.6.1[FS]; 2.9.6.4[FS]; 2.9.6.2[FS]; 2.9.6.3[FS]; 2.9.6.1.1[FS]; 2.9.4.1.11.1[FS]; 2.9.6.5.1[FS]; 2.7.2.4.8[FS+20d]; 2.7.2.6.8[FS+20d]; 2.7.2.3.8[FS+20d]; 2.7.2.7.8[FS+20d]; 2.7.2.2.2.1.4[FS+20d] |
| 2.1.2.5.23 | Final acceptance/project completion - far detector building construction | Complete | 0 | 10Oct11 10Oct11 | 10Oct11 10Oct11 | None | | None | | 2.1.2.4.2.2.2[FS]; 2.1.2.4.2.1.3.2[FS]; 2.1.2.4.2.1.2[FS]; 2.1.2.4.2.1.3.1[FS]; 2.1.2.4.2.2.1[FS]; 2.1.1.4.9[FS]; 2.1.2.5.24.7[FS]; 2.1.2.5.24.13[FS]; 2.1.2.5.24.6[FS]; 2.1.2.5.24.14[FS]; 2.1.2.5.19[FS]; 2.1.2.5.22[FS]; 2.1.2.5.24.15[FS]; 2.1.2.5.24.11[FS]; 2.1.2.5.24.10[FS]; 2.1.2.5.24.8[FS]; 2.1.2.5.24.9[FS] | 2.7.2.8.1[FS]; 2.7.4.2.1[FS]; 2.7.4.1.1.1[FS-1d]; 2.10.8.3[FS]; 2.10.9.1[FS]; 2.7.4.1.2.1[FS-1d]; 2.9.4.1.16.1[FS] |
| 2.1.2.5.24 | Contractor Costs | Complete | 518d | 25Aug09 15Sep11 | 01Oct09 29Aug11 | None | | None | | | |
| 2.1.2.5.24.1 | General Conditions | Complete | 368d | 25Aug09 31Mar11 | 16Oct09 15Feb11 | None | | None | | 2.1.2.5.1[SS] | |
| 2.1.2.5.24.2 | CM Fee | Complete | 368d | 25Aug09 31Mar11 | 16Oct09 15Feb11 | None | | None | | 2.1.2.5.1[SS] | |
| 2.1.2.5.24.3 | Contingency | Complete | 368d | 25Aug09 31Jan11 | 16Oct09 15Feb11 | None | | None | | 2.1.2.5.1[SS] | |
| 2.1.2.5.24.4 | CM Insurance | Complete | 332d | 25Aug09 31Aug09 | 16Oct09 15Feb11 | None | | None | | 2.1.2.5.1[SS] | |
| 2.1.2.5.24.5 | Bonds | Complete | 332d | 25Aug09 31Aug09 | 16Oct09 15Feb11 | None | | None | | 2.1.2.5.1[SS] | |
| 2.1.2.5.24.6 | Sales Tax - Build Phase II - Far Detector Bldg | Complete | 20d | 01Oct09 29Oct10 | 18Nov10 17Dec10 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.7 | Storage and handling fees for advanced procurements - Far Detector Building | Complete | 60d | 01Oct09 01Jul10 | 01Oct09 31Mar10 | None | | None | | 2.1.2.5.1[FS] | 2.1.2.5.23[FS] |
| 2.1.2.5.24.8 | Change Order 006 | Complete | 108d | 01Oct10 30Dec10 | 25Oct10 31Mar11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.9 | Change Order 007 | Complete | 35d | 01Mar11 31Mar11 | 14Mar11 29Apr11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.10 | Change Order 008 | Complete | 65d | 01Mar11 31Mar11 | 01Mar11 31May11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.11 | Change Order 009 - COOP Agreement - remaining floor slab work | Complete | 42d | 01Mar11 01Apr11 | 01Apr11 31May11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.13 | Change Order 012 | Complete | 57d | 30Apr11 11Jul11 | 01Apr11 30Jun11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.14 | Change Order 013 | Complete | 77d | 11May11 29Aug11 | 11May11 29Aug11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.24.15 | Change Order 014 | Complete | 54d | 01Jun11 15Sep11 | 01Jun11 16Aug11 | None | | None | | | 2.1.2.5.23[FS] |
| 2.1.2.5.25 | Install Shielding for Detector Enclosure - Part 2 | Complete | 15d | 02May11 27Jun11 | 02May11 20May11 | None | | None | | 2.1.2.5.7[FS] | 2.1.2.5.8[FS] |
| 2.1.3 | Site and Building Security (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.3.1 | Fencing (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.3.2 | Lighting (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.3.3 | Access system (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.4 | Management | Complete | 539d | 08Apr09 27May11 | 08Apr09 15Feb11 | None | | None | | | |
| 2.1.4.1 | Permits | Complete | 437d | 08Apr09 04Jan11 | 08Apr09 27Oct09 | None | | None | | | |
| 2.1.4.1.1 | Road and utility permits | Complete | 40d | 03Jan11 04Jan11 | 01Sep09 27Oct09 | None | | None | | 1.1.1.4.15[FS]; 1.9.5.10[FS]; 2.10.8.1[FS] | |
| 2.1.4.1.2 | UMN site prep permits | Complete | 30d | 08Apr09 01Jun09 | 08Apr09 01Jun09 | None | | None | | 1.1.1.4.15[FS]; 2.10.8.1[FS]; 1.9.5.10[FS] | 2.1.1.4.3[FS]; 2.1.1.4.1[FS] |
| 2.1.4.1.3 | UMN far detector building permits | Complete | 20d | 08Apr09 23Oct09 | 08Apr09 11Jun09 | None | | None | | 2.10.8.1[FS]; 2.1.2.1.21[FS] | |
| 2.1.4.4 | Quality Control | Complete | 502d | 01Jun09 27May11 | 01Jun09 15Feb11 | None | | None | | | |
| 2.1.4.4.1 | Concrete testing (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.4.4.2 | Structural steel testing (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.4.4.3 | HVAC commissioning (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.4.4.4 | Electrical system commissioning (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |
| 2.1.4.4.5 | Fire protection system commissioning (OBSOLETE) | Complete | 1d | 01Jun09 01Jun09 | 01Jun09 01Jun09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.4.4.6 | Interim Testing Services | Complete | 31d | 01Jul09 15Jul09 | 02Sep09 15Oct09 | None | | None | | | 2.1.4.4.8[FS]; 2.1.4.4.7[FS] |
| 2.1.4.4.7 | 3rd Party Testing Services | Complete | 394d | 20Jul09 27May11 | 16Oct09 15Feb11 | None | | None | | 2.1.4.4.6[FS]; 2.1.2.5.1[FS] | |
| 2.1.4.4.8 | Commissioning Agent | Complete | 60d | 01Feb11 27May11 | 16Oct09 15Feb11 | None | | None | | 2.1.4.4.6[FS]; 2.1.2.5.1[FS] | |
| 2.1.5 | Far Detector Assembly Building Outfitting | Complete | 540d | 02Aug10 21Sep12 | 01Sep10 31Aug12 | None | | None | | | |
| 2.1.5.1 | Final Design Phase | Complete | 111d | 02Aug10 11Jan11 | 01Sep10 07Dec10 | None | | None | | | |
| 2.1.5.1.1 | Prepare request for proposal memo | Complete | 1d | 02Aug10 02Aug10 | 01Sep10 01Sep10 | None | | None | | | 2.1.5.4.2.1[SS]; 2.1.5.4.1.4[SS]; 2.1.5.4.1.1[SS]; 2.1.5.1.2[FS]; 2.1.5.4.1.3[SS]; 2.1.5.4.1.2[SS] |
| 2.1.5.1.2 | Issue RFP to A/E firm | Complete | 1d | 03Aug10 04Aug10 | 02Sep10 02Sep10 | None | | None | | 2.1.5.1.1[FS] | 2.1.5.1.3[FS+1d] |
| 2.1.5.1.3 | Receive proposal | Complete | 1d | 05Aug10 06Aug10 | 07Sep10 07Sep10 | None | | None | | 2.1.5.1.2[FS+1d] | 2.1.5.1.4[FS] |
| 2.1.5.1.4 | Review received proposal | Complete | 2d | 09Aug10 09Aug10 | 08Sep10 09Sep10 | None | | None | | 2.1.5.1.3[FS] | 2.1.5.1.5[FS] |
| 2.1.5.1.5 | Prepare requisition | Complete | 1d | 11Aug10 11Aug10 | 10Sep10 10Sep10 | None | | None | | 2.1.5.1.4[FS] | 2.1.5.1.6[FS] |
| 2.1.5.1.6 | Circulate requisition for approvals | Complete | 2d | 12Aug10 08Sep10 | 13Sep10 14Sep10 | None | | None | | 2.1.5.1.5[FS] | 2.1.5.1.7[FS] |
| 2.1.5.1.7 | Prepare purchase order | Complete | 2d | 09Sep10 14Sep10 | 15Sep10 16Sep10 | None | | None | | 2.1.5.1.6[FS] | 2.1.5.1.8[FS] |
| 2.1.5.1.8 | PO Issued for Final Design of FDB Assembly Outfitting | Complete | 0 | 14Sep10 14Sep10 | 16Sep10 16Sep10 | None | | None | | 2.1.5.1.7[FS] | 2.1.5.1.9[FS+5d] |
| 2.1.5.1.9 | Hold kickoff meeting | Complete | 1d | 15Sep10 15Sep10 | 24Sep10 24Sep10 | None | | None | | 2.1.5.1.8[FS+5d] | 2.1.5.1.10[FS] |
| 2.1.5.1.10 | Review background information | Complete | 2d | 16Sep10 27Sep10 | 27Sep10 28Sep10 | None | | None | | 2.1.5.1.9[FS] | 2.1.5.1.11[FS]; 2.1.5.1.12[FS] |
| 2.1.5.1.11 | Prepare drawings | Complete | 15d | 16Sep10 08Nov10 | 29Sep10 19Oct10 | None | | None | | 2.1.5.1.10[FS] | 2.1.5.1.13[FS] |
| 2.1.5.1.12 | Prepare specifications | Complete | 15d | 16Sep10 08Nov10 | 29Sep10 19Oct10 | None | | None | | 2.1.5.1.10[FS] | 2.1.5.1.13[FS] |
| 2.1.5.1.13 | Assemble/print/distribute documents for review | Complete | 1d | 08Nov10 08Nov10 | 20Oct10 20Oct10 | None | | None | | 2.1.5.1.12[FS]; 2.1.5.1.11[FS] | 2.1.5.1.14[FS] |
| 2.1.5.1.14 | Comment and compliance review | Complete | 10d | 09Nov10 23Nov10 | 21Oct10 03Nov10 | None | | None | | 2.1.5.1.13[FS] | 2.1.5.1.15[FS]; 2.1.5.1.17[FS]; 2.1.5.1.16[FS] |
| 2.1.5.1.15 | Revise drawings | Complete | 10d | 24Nov10 07Dec10 | 04Nov10 17Nov10 | None | | None | | 2.1.5.1.14[FS] | 2.1.5.1.18[FS] |
| 2.1.5.1.16 | Revise specifications | Complete | 10d | 24Nov10 07Dec10 | 04Nov10 17Nov10 | None | | None | | 2.1.5.1.14[FS] | 2.1.5.1.18[FS] |
| 2.1.5.1.17 | Prepare cost estimate/schedule | Complete | 10d | 24Nov10 07Dec10 | 04Nov10 17Nov10 | None | | None | | 2.1.5.1.14[FS] | 2.1.5.1.18[FS] |
| 2.1.5.1.18 | Assemble/print/distribute documents for review | Complete | 1d | 08Dec10 09Dec10 | 18Nov10 18Nov10 | None | | None | | 2.1.5.1.15[FS]; 2.1.5.1.17[FS]; 2.1.5.1.16[FS] | 2.1.5.1.19[FS] |
| 2.1.5.1.19 | Quality assurance review | Complete | 5d | 10Dec10 17Dec10 | 19Nov10 29Nov10 | None | | None | | 2.1.5.1.18[FS] | 2.1.5.1.20[FS] |
| 2.1.5.1.20 | FInalize documents | Complete | 5d | 20Dec10 10Jan11 | 30Nov10 06Dec10 | None | | None | | 2.1.5.1.19[FS] | 2.1.5.1.21[FS] |
| 2.1.5.1.21 | Assemble/print/distribute final documents | Complete | 1d | 20Dec10 11Jan11 | 07Dec10 07Dec10 | None | | None | | 2.1.5.1.20[FS] | 2.1.5.1.22[FS] |
| 2.1.5.1.22 | Final Design Completed - FDB Assembly Outfitting | Complete | 0 | 11Jan11 11Jan11 | 07Dec10 07Dec10 | None | | None | | 2.1.5.1.21[FS] | 2.1.5.2.1[FS] |
| 2.1.5.2 | Procurement Phase | Complete | 45d | 08Dec10 14Feb11 | 08Dec10 09Feb11 | None | | None | | | |
| 2.1.5.2.1 | Prepare construction requisition | Complete | 1d | 08Dec10 09Dec10 | 08Dec10 08Dec10 | None | | None | | 2.1.5.1.22[FS] | 2.1.5.2.2[FS] |
| 2.1.5.2.2 | Circulate requisition for approvals | Complete | 10d | 10Dec10 10Dec10 | 09Dec10 22Dec10 | None | | None | | 2.1.5.2.1[FS] | 2.1.5.2.3[FS] |
| 2.1.5.2.3 | Prepare Request For Proposal | Complete | 5d | 11Dec10 11Dec10 | 23Dec10 03Jan11 | None | | None | | 2.1.5.2.2[FS] | 2.1.5.2.4[FS] |
| 2.1.5.2.4 | RFP for FDB Assembly Outfitting Issued | Complete | 0 | 11Dec10 11Dec10 | 04Jan11 04Jan11 | None | | None | | 2.1.5.2.3[FS] | 2.1.5.2.5[FS+15d] |
| 2.1.5.2.5 | Receive Proposal | Complete | 1d | 28Jan11 28Jan11 | 26Jan11 26Jan11 | None | | None | | 2.1.5.2.4[FS+15d] | 2.1.5.2.6[FS] |
| 2.1.5.2.6 | Review proposals | Complete | 5d | 29Jan11 01Feb11 | 27Jan11 02Feb11 | None | | None | | 2.1.5.2.5[FS] | 2.1.5.2.7[FS] |
| 2.1.5.2.7 | Prepare purchase order | Complete | 5d | 02Feb11 11Feb11 | 03Feb11 09Feb11 | None | | None | | 2.1.5.2.6[FS] | 2.1.5.2.8[FS] |
| 2.1.5.2.8 | NTP Issued for FDB Assembly Outfitting | Complete | 0 | 14Feb11 14Feb11 | 09Feb11 09Feb11 | None | | None | | 2.1.5.2.7[FS] | 2.1.5.3.20[FS]; 2.1.5.3.6.1[FS]; 2.1.5.3.4.1[FS]; 2.1.5.3.3.1[FS]; 2.1.5.3.1.1[FS]; 2.1.5.3.2.1[FS]; 2.1.5.3.5.1[FS]; 2.1.5.3.7.1[FS]; 2.1.5.3.9.1[FS]; 2.1.5.3.8.1[FS]; 2.1.5.3.10.1[FS]; 2.1.5.4.2.2.1[FS]; 2.1.5.4.2.2.2[FS] |
| 2.1.5.3 | Construction Phase | Complete | 396d | 01Mar11 21Sep12 | 01Mar11 31Aug12 | None | | None | | | |
| 2.1.5.3.1 | Fixed Access Platforms Electrical Extensions | Complete | 38d | 07Apr11 31May11 | 20Apr11 19May11 | None | | None | | | |
| 2.1.5.3.1.1 | Complete rough-ins | Complete | 15d | 07Apr11 13May11 | 20Apr11 10May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.1.2[FS] |
| 2.1.5.3.1.2 | Complete trim-outs | Complete | 7d | 16May11 31May11 | 11May11 19May11 | None | | None | | 2.1.5.3.1.1[FS] | 2.1.5.3.11[FS] |
| 2.1.5.3.2 | Adhesive Dispenser | Complete | 24d | 02May11 03Jun11 | 04May11 14Jun11 | None | | None | | | |
| 2.1.5.3.2.1 | Install base | Complete | 19d | 02May11 13May11 | 04May11 31May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.2.2[SS] |
| 2.1.5.3.2.2 | Install ductwork | Complete | 19d | 16May11 31May11 | 04May11 31May11 | None | | None | | 2.1.5.3.2.1[SS] | 2.1.5.3.2.3[FS] |
| 2.1.5.3.2.3 | Install grating | Complete | 7d | 24May11 31May11 | 01Jun11 09Jun11 | None | | None | | 2.1.5.3.2.2[FS] | 2.1.5.3.2.4[FS] |
| 2.1.5.3.2.4 | Complete test and balance - adhesive dispenser | Complete | 3d | 01Jun11 03Jun11 | 10Jun11 14Jun11 | None | | None | | 2.1.5.3.2.3[FS] | 2.1.5.3.11[FS]; 2.9.4.1.7.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.5.3.3 | Block Pivoter HVAC | Complete | 42d | 06Apr11 03Jun11 | 19Apr11 29Jul11 | None | | None | | | |
| 2.1.5.3.3.1 | Complete ductwork extension | Complete | 19d | 16Apr11 30Apr11 | 19Apr11 13May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.3.2[SS] |
| 2.1.5.3.3.2 | Complete below-platform ductwork | Complete | 19d | 06Apr11 18May11 | 19Apr11 13May11 | None | | None | | 2.1.5.3.3.1[SS] | 2.1.5.3.3.3[FS] |
| 2.1.5.3.3.3 | Complete test and balance - block pivoter HVAC | Complete | 3d | 01Jun11 03Jun11 | 27Jul11 29Jul11 | None | | None | | 2.1.5.3.3.2[FS] | 2.9.1.4.11[SS]; 2.1.5.3.11[FS]; 2.9.4.1.8.5[FS] |
| 2.1.5.3.4 | Exterior Work | Complete | 21d | 20May11 20Jun11 | 11May11 27May11 | None | | None | | | |
| 2.1.5.3.4.1 | Complete concrete pad | Complete | 4d | 20May11 20Jun11 | 11May11 16May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.4.2[SS] |
| 2.1.5.3.4.2 | Complete concrete approach apron | Complete | 4d | 20May11 20Jun11 | 11May11 16May11 | None | | None | | 2.1.5.3.4.1[SS] | 2.1.5.3.4.3[FS] |
| 2.1.5.3.4.3 | Extend electrical | Complete | 9d | 20May11 20Jun11 | 17May11 27May11 | None | | None | | 2.1.5.3.4.2[FS] | 2.1.5.3.4.4[SS] |
| 2.1.5.3.4.4 | Extend communication | Complete | 9d | 20May11 20Jun11 | 17May11 27May11 | None | | None | | 2.1.5.3.4.3[SS] | 2.1.5.3.11[FS] |
| 2.1.5.3.5 | South Bookend Flatness | Complete | 61d | 01Mar11 24May11 | 01Mar11 02May11 | None | | None | | | |
| 2.1.5.3.5.1 | Survey existing wall | Complete | 9d | 01Mar11 01Apr11 | 01Mar11 11Mar11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.5.2[FS+14d] |
| 2.1.5.3.5.2 | Modify wall | Complete | 22d | 04Apr11 24May11 | 01Apr11 02May11 | None | | None | | 2.1.5.3.5.1[FS+14d] | 2.1.5.3.11[FS] |
| 2.1.5.3.6 | Block Pivoter Access System | Complete | 60d | 11Mar11 03Jun11 | 20Apr11 29Jul11 | None | | None | | | |
| 2.1.5.3.6.1 | Remove existing fixed-access platform | Complete | 9d | 11Mar11 04Apr11 | 20Apr11 02May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.6.2[SS] |
| 2.1.5.3.6.2 | Modify existing stairs | Complete | 9d | 06Apr11 29Apr11 | 20Apr11 02May11 | None | | None | | 2.1.5.3.6.1[SS] | 2.1.5.3.6.3[SS] |
| 2.1.5.3.6.3 | Adjust existing sprinkler system | Complete | 9d | 06Apr11 29Apr11 | 20Apr11 02May11 | None | | None | | 2.1.5.3.6.2[SS] | 2.1.5.3.6.4[SS] |
| 2.1.5.3.6.4 | Adjust existing lighting | Complete | 9d | 06Apr11 29Apr11 | 20Apr11 02May11 | None | | None | | 2.1.5.3.6.3[SS] | 2.1.5.3.6.5[FS] |
| 2.1.5.3.6.5 | Install block pivoter access platform | Complete | 12d | 28Apr11 31May11 | 03May11 18May11 | None | | None | | 2.1.5.3.6.4[FS] | 2.9.1.4.11[SS]; 2.1.5.3.6.6[FS] |
| 2.1.5.3.6.6 | Test and commission block pivoter access system | Complete | 2d | 31May11 03Jun11 | 28Jul11 29Jul11 | None | | None | | 2.1.5.3.6.5[FS] | 2.1.5.3.11[FS]; 2.9.4.1.8.5[FS] |
| 2.1.5.3.7 | Video Monitoring System | Complete | 51d | 15Apr11 27Jun11 | 15Apr11 29Jul11 | None | | None | | | |
| 2.1.5.3.7.1 | Install video monitoring system | Complete | 27d | 15Apr11 27Jun11 | 15Apr11 23May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.7.2[SS] |
| 2.1.5.3.7.2 | Extend electrical service | Complete | 27d | 15Apr11 27Jun11 | 15Apr11 23May11 | None | | None | | 2.1.5.3.7.1[SS] | 2.1.5.3.7.3[FS] |
| 2.1.5.3.7.3 | Install interface with fire alarm control panel | Complete | 2d | 15Apr11 27Jun11 | 24May11 25May11 | None | | None | | 2.1.5.3.7.2[FS] | 2.1.5.3.7.4[FS] |
| 2.1.5.3.7.4 | Test and commission video monitoring system | Complete | 3d | 03May11 27Jun11 | 27Jul11 29Jul11 | None | | None | | 2.1.5.3.7.3[FS] | 2.1.5.3.11[FS] |
| 2.1.5.3.8 | Alignment Device | Complete | 32d | 15Apr11 31May11 | 15Apr11 29Apr11 | None | | None | | | |
| 2.1.5.3.8.1 | Install laser support bracket | Complete | 11d | 15Apr11 31May11 | 15Apr11 29Apr11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.8.2[SS] |
| 2.1.5.3.8.2 | Extend electrical | Complete | 11d | 15Apr11 31May11 | 15Apr11 29Apr11 | None | | None | | 2.1.5.3.8.1[SS] | 2.1.5.3.8.3[SS] |
| 2.1.5.3.8.3 | Extend data network | Complete | 11d | 15Apr11 31May11 | 15Apr11 29Apr11 | None | | None | | 2.1.5.3.8.2[SS] | 2.1.5.3.11[FS] |
| 2.1.5.3.9 | Platform Extensions | Complete | 32d | 16Mar11 28Apr11 | 21Mar11 18May11 | None | | None | | | |
| 2.1.5.3.9.1 | Extend platforms | Complete | 43d | 16Mar11 28Apr11 | 21Mar11 18May11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.15[FS]; 2.1.5.3.9.2[SS] |
| 2.1.5.3.9.2 | Modify handrails/guardrails | Complete | 43d | 04Apr11 28Apr11 | 21Mar11 18May11 | None | | None | | 2.1.5.3.9.1[SS] | 2.1.5.3.15[FS]; 2.1.5.3.11[FS] |
| 2.1.5.3.10 | Fire Protection Electrical Changes | Complete | 73d | 16Apr11 29Jul11 | 18Apr11 15Jun11 | None | | None | | | |
| 2.1.5.3.10.1 | Rough-ins | Complete | 32d | 16Apr11 29Jul11 | 18Apr11 01Jun11 | None | | None | | 2.1.5.2.8[FS] | 2.1.5.3.10.2[FS] |
| 2.1.5.3.10.2 | Trim-outs | Complete | 10d | 16Apr11 29Jul11 | 02Jun11 15Jun11 | None | | None | | 2.1.5.3.10.1[FS] | 2.1.5.3.11[FS] |
| 2.1.5.3.11 | Far Detector Assembly Building Outfitting Complete | Complete | 0 | 21Sep12 21Sep12 | 29Dec11 29Dec11 | None | | None | | 2.1.6.2[FS]; 2.1.6.3[FS]; 2.1.6.4[FS]; 2.1.5.3.14.2[FS]; 2.1.5.3.12.6[FS]; 2.1.5.3.1.2[FS]; 2.1.5.3.3.3[FS]; 2.1.5.3.13.3[FS]; 2.1.5.3.8.3[FS]; 2.1.5.3.9.2[FS]; 2.1.5.3.6.6[FS]; 2.1.5.3.4.4[FS]; 2.1.5.3.7.4[FS]; 2.1.5.3.5.2[FS]; 2.1.5.3.10.2[FS]; 2.1.5.3.2.4[FS] | 2.9.4.3.2[FS] |
| 2.1.5.3.12 | Contractor Costs | Complete | 148d | 01Apr11 28Oct11 | 01Apr11 29Aug11 | None | | None | | | |
| 2.1.5.3.12.1 | General conditions | Complete | 67d | 01Apr11 15Sep11 | 01Apr11 06Jul11 | None | | None | | | 2.1.5.3.12.2[SS] |
| 2.1.5.3.12.2 | CM fees | Complete | 67d | 01Apr11 15Sep11 | 01Apr11 06Jul11 | None | | None | | 2.1.5.3.12.1[SS] | 2.1.5.3.12.4[SS]; 2.1.5.3.12.3[SS] |
| 2.1.5.3.12.3 | GMP Buffer | Complete | 20d | 01Jun11 28Oct11 | 01Jul11 29Jul11 | None | | None | | 2.1.5.3.12.2[SS] | |
| 2.1.5.3.12.4 | CM Insurance | Complete | 67d | 01Apr11 29Apr11 | 01Apr11 06Jul11 | None | | None | | 2.1.5.3.12.2[SS] | 2.1.5.3.12.5[SS] |
| 2.1.5.3.12.5 | Bonds | Complete | 67d | 01Apr11 30Jun11 | 01Apr11 06Jul11 | None | | None | | 2.1.5.3.12.4[SS] | |
| 2.1.5.3.12.6 | Change Order 015 | Complete | 33d | 14Jul11 15Sep11 | 14Jul11 29Aug11 | None | | None | | | 2.1.5.3.11[FS] |
| 2.1.5.3.13 | Scintillator QA Laboratory | Complete | 168d | 01Mar11 25Oct11 | 14Mar11 18Nov11 | None | | None | | | |
| 2.1.5.3.13.1 | Place order for trailer | Complete | 1d | 01Mar11 10May11 | 14Mar11 14Mar11 | None | | None | | | 2.1.5.3.13.2[FS+66d] |
| 2.1.5.3.13.2 | Receive trailer | Complete | 1d | 21Oct11 21Oct11 | 04Nov11 04Nov11 | None | | None | | 2.1.5.3.13.1[FS+66d] | 2.1.5.3.13.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.5.3.13.3 | Install trailer | Complete | 10d | 25Oct11 25Oct11 | 07Nov11 18Nov11 | None | | None | | 2.1.5.3.13.2[FS] | 2.1.5.3.11[FS] |
| 2.1.5.3.14 | Control Room Build Out | Complete | 62d | 01Sep11 30Nov11 | 01Sep11 29Dec11 | None | | None | | | |
| 2.1.5.3.14.1 | Procure control room furniture | Complete | 81d | 01Sep11 23Nov11 | 01Sep11 29Dec11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.6.1[FS] |
| 2.1.5.3.14.2 | Perform FD Building Architectural Modifications | Complete | 23d | 07Nov11 30Nov11 | 14Nov11 29Dec11 | None | | None | | 2.1.2.5.22[FS] | 2.1.5.3.11[FS]; 2.9.4.6.1[FS] |
| 2.1.5.3.15 | FD Building Structural Steel Modifications | Complete | 60d | 01Sep11 18Nov11 | 03Oct11 29Dec11 | None | | None | | 2.1.5.3.9.1[FS]; 2.1.5.3.9.2[FS] | 2.9.4.3.2[FS] |
| 2.1.5.3.16 | FD Buliding MEP Modifications | Complete | 39d | 01Nov11 23Dec11 | 10Oct11 31Jan12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.5.1[FS]; 2.9.4.4.2[FS] |
| 2.1.5.3.17 | Overhead crane modifications | Complete | 39d | 15Dec11 11May12 | 01Dec11 31Jan12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.1.5.3.18 | East assembly area guardrail modifications | Complete | 39d | 15Dec11 28Mar12 | 01Dec11 31Jan12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.1.5.3.19 | Exterior Signage | Complete | 81d | 14Dec11 11Apr12 | 19Dec11 04May12 | None | | None | | | |
| 2.1.5.3.19.1 | Order sign | Complete | 1d | 14Dec11 20Jan12 | 19Dec11 19Dec11 | None | | None | | | 2.1.5.3.19.2[FS+60d] |
| 2.1.5.3.19.2 | Receive sign | Complete | 1d | 02Apr12 04Apr12 | 06Apr12 06Apr12 | None | | None | | 2.1.5.3.19.1[FS+60d] | 2.1.5.3.19.3[FS] |
| 2.1.5.3.19.3 | Install sign | Complete | 10d | 05Apr12 11Apr12 | 09Apr12 04May12 | None | | None | | 2.1.5.3.19.2[FS] | |
| 2.1.5.3.20 | South MAP platform extension | Complete | 42d | 05Jul12 21Sep12 | 05Jul12 31Aug12 | None | | None | | 2.1.5.2.8[FS] | 2.9.4.4.2[FF]; 2.9.4.5.1[FF] |
| 2.1.5.4 | EDIA | Complete | 540d | 02Aug10 21Sep12 | 01Sep10 19Aug11 | None | | None | | | |
| 2.1.5.4.1 | University of Minnesota | Complete | 149d | 01Apr11 31Oct11 | 08Apr11 19Aug11 | None | | None | | | |
| 2.1.5.4.1.1 | CPPM Support | Complete | 94d | 01Apr11 31Oct11 | 08Apr11 19Aug11 | None | | None | | 2.1.5.1.1[SS] | |
| 2.1.5.4.1.2 | UMN Permits | Complete | 94d | 01Apr11 31Oct11 | 08Apr11 19Aug11 | None | | None | | 2.1.5.1.1[SS] | |
| 2.1.5.4.1.3 | Testing Services | Complete | 74d | 01Apr11 31Oct11 | 06May11 19Aug11 | None | | None | | 2.1.5.1.1[SS] | |
| 2.1.5.4.1.4 | Commissioning Services | Complete | 74d | 01Apr11 31Oct11 | 06May11 19Aug11 | None | | None | | 2.1.5.1.1[SS] | |
| 2.1.5.4.2 | Fermilab | Complete | 540d | 02Aug10 21Sep12 | 01Sep10 06Jul11 | None | | None | | | |
| 2.1.5.4.2.1 | FESS/Engineering Support | Complete | 200d | 02Aug10 21Sep12 | 01Sep10 17Jun11 | None | | None | | 2.1.5.1.1[SS] | |
| 2.1.5.4.2.2 | A/E Firm Support | Complete | 151d | 01Mar11 30Sep11 | 01Mar11 06Jul11 | None | | None | | | |
| 2.1.5.4.2.2.1 | Construction Phase Support | Complete | 90d | 01Mar11 31Aug11 | 01Mar11 06Jul11 | None | | None | | 2.1.5.2.8[FS] | |
| 2.1.5.4.2.2.2 | Resident Engineer Support | Complete | 62d | 01Apr11 30Sep11 | 08Apr11 06Jul11 | None | | None | | 2.1.5.2.8[FS] | |
| 2.1.6 | Transition Support Tasks | Complete | 250d | 05Oct10 30Sep11 | 11Oct10 29Dec11 | None | | None | | | |
| 2.1.6.1 | Propane tank - installation | Complete | 35d | 05Oct10 25Oct10 | 11Oct10 30Nov10 | None | | None | | | 2.1.6.2[FS] |
| 2.1.6.2 | Propane tank - initial fill | Complete | 11d | 06Jul11 29Jul11 | 01Dec10 15Dec10 | None | | None | | 2.1.6.1[FS] | 2.1.5.3.11[FS] |
| 2.1.6.3 | Telephone Service | Complete | 11d | 06Jul11 29Jul11 | 08Apr11 22Apr11 | None | | None | | | 2.1.5.3.11[FS] |
| 2.1.6.4 | Data network installation | Complete | 30d | 06Jul11 29Jul11 | 08Apr11 19May11 | None | | None | | | 2.1.5.3.11[FS] |
| 2.1.6.5 | Transition support tasks - supplemental | Complete | 81d | 06Jul11 30Sep11 | 01Sep11 29Dec11 | None | | None | | | |
| 2.1.7 | Block Pivoter Assembly | Complete | 440d | 17Nov10 17Aug12 | 15Nov10 04Sep12 | None | | None | | | |
| 2.1.7.1 | Crane Modifications | Complete | 133d | 17Nov10 31May11 | 15Nov10 09Jun11 | None | | None | | | |
| 2.1.7.1.1 | Develop specifications | Complete | 5d | 17Nov10 29Nov10 | 15Nov10 19Nov10 | None | | None | | | 2.1.7.1.2[FS] |
| 2.1.7.1.2 | Obtain proposal | Complete | 5d | 22Nov10 30Nov10 | 22Nov10 30Nov10 | None | | None | | 2.1.7.1.1[FS] | 2.1.7.1.3[FS] |
| 2.1.7.1.3 | Fabricate lifting fixture | Complete | 65d | 01Mar11 31May11 | 01Mar11 31May11 | None | | None | | 2.1.7.1.2[FS] | 2.1.7.1.4[FS] |
| 2.1.7.1.4 | Commission lifting fixture | Complete | 7d | 20Apr11 31May11 | 01Jun11 09Jun11 | None | | None | | 2.1.7.1.3[FS]; 2.1.2.5.22[FS] | 2.1.7.3.1[FS] |
| 2.1.7.2 | Unload equipment (Obsolete) | Complete | 1d | 16May11 16May11 | 16May11 16May11 | None | | None | | 2.9.1.4.18.6[FS] | |
| 2.1.7.3 | Block Pivoter Assembly | Complete | 240d | 06Sep11 17Aug12 | 06Sep11 04Sep12 | None | | None | | | |
| 2.1.7.3.1 | Mobilize | Complete | 74d | 06Sep11 06Sep11 | 06Sep11 20Dec11 | None | | None | | 2.1.7.1.4[FS]; 2.9.1.4.8[FS] | 2.1.7.3.17[FS]; 2.1.7.3.2[SS+1d]; 2.1.7.3.14[FS]; 2.1.7.3.15[FS]; 2.1.7.3.16[FS]; 2.1.7.3.18[FS]; 2.9.1.4.7[SS] |
| 2.1.7.3.2 | Install lower frame assemblies | Complete | 8d | 13Sep11 13Sep11 | 07Sep11 16Sep11 | None | | None | | 2.9.1.4.18.4[FS]; 2.1.7.3.1[SS+1d] | 2.1.7.3.3[FS] |
| 2.1.7.3.3 | Install forward cross-tie | Complete | 3d | 14Sep11 20Sep11 | 19Sep11 21Sep11 | None | | None | | 2.1.7.3.2[FS] | 2.1.7.3.4[FS] |
| 2.1.7.3.4 | Install rear bracket | Complete | 2d | 14Sep11 20Sep11 | 22Sep11 23Sep11 | None | | None | | 2.1.7.3.3[FS] | 2.1.7.3.5[FS] |
| 2.1.7.3.5 | Install main rear counterwieght | Complete | 5d | 07Nov11 15Nov11 | 26Sep11 30Sep11 | None | | None | | 2.1.7.3.4[FS] | 2.1.7.3.6[FS] |
| 2.1.7.3.6 | Install two rear counterweights | Complete | 5d | 07Nov11 15Nov11 | 03Oct11 07Oct11 | None | | None | | 2.1.7.3.5[FS] | 2.1.7.3.7[FS] |
| 2.1.7.3.7 | Install drive and pivot cylinder power units | Complete | 5d | 20Sep11 30Sep11 | 10Oct11 14Oct11 | None | | None | | 2.9.1.4.18.2[FS]; 2.1.7.3.6[FS] | 2.1.7.3.8[FS] |
| 2.1.7.3.8 | Install kneeling cylinders | Complete | 10d | 07Nov11 15Nov11 | 17Oct11 28Oct11 | None | | None | | 2.1.7.3.7[FS]; 2.9.1.4.18.6[FS] | 2.1.7.3.9[FS] |
| 2.1.7.3.9 | Install upper weldment No. 1 | Complete | 5d | 21Sep11 27Oct11 | 31Oct11 04Nov11 | None | | None | | 2.9.1.4.18.3[FS]; 2.1.7.3.8[FS] | 2.1.7.3.10[FS]; 2.1.7.3.11[FS] |
| 2.1.7.3.10 | Install pivot cylinder No. 1 | Complete | 4d | 07Nov11 15Nov11 | 07Nov11 10Nov11 | None | | None | | 2.1.7.3.9[FS]; 2.9.1.4.18.1[FS] | 2.1.7.3.11[FS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.1.7.3.11 | Install upper weldment No. 2 and pivot cylinder No. 2 | Complete | 5d | 21Sep11 15Nov11 | 11Nov11 17Nov11 | None | | None | | 2.1.7.3.10[FS]; 2.1.7.3.9[FS] | 2.1.7.3.13[FS]; 2.1.7.3.12[FS] |
| 2.1.7.3.12 | Install electrical | Complete | 21d | 01Nov11 16Dec11 | 18Nov11 20Dec11 | None | | None | | 2.1.7.3.11[FS] | 2.9.1.4.11[FS] |
| 2.1.7.3.13 | Install table top | Complete | 21d | 17Jan12 28Mar12 | 18Nov11 20Dec11 | None | | None | | 2.9.1.4.18.5[FS]; 2.9.1.4.18.7[SS+55d]; 2.9.1.4.18.7[FF+5d]; 2.1.7.3.11[FS] | 2.9.1.4.11[FS] |
| 2.1.7.3.14 | Perform additional pivoter assembly work | Complete | 15d | 01Dec11 21Dec11 | 03Jan12 24Jan12 | None | | None | | 2.1.7.3.1[FS] | 2.9.1.4.11[FF] |
| 2.1.7.3.15 | Install shoring towers | Complete | 15d | 06Apr12 16Apr12 | 06Apr12 26Apr12 | None | | None | | 2.1.7.3.1[FS] | 2.9.4.3.2[FS] |
| 2.1.7.3.16 | Additional block pivoter welding | Complete | 4d | 01May12 22May12 | 09Apr12 30Apr12 | None | | None | | 2.1.7.3.1[FS] | 2.9.4.1.8.7[FS]; 2.9.1.4.14[FS] |
| 2.1.7.3.17 | Additional block pivoter assembly work | Complete | 19d | 01May12 22May12 | 04May12 31May12 | None | | None | | 2.1.7.3.1[FS] | 2.9.4.3.3[FF+20d] |
| 2.1.7.3.18 | Block pivoter access modifications | Complete | 22d | 06Aug12 17Aug12 | 03Aug12 04Sep12 | None | | None | | 2.1.7.3.1[FS] | 2.9.4.3.3[FF] |
| 2.2 | Liquid Scintillator | In Progress | 1657d | 01Oct07 07May14 | 01Oct07 21Mar14 | None | | None | | | |
| 2.2.1 | Mineral Oil | In Progress | 1028d | 01Oct09 01Nov13 | 04Jan10 31Oct13 | None | | None | | | |
| 2.2.1.1 | Prepare RFP | Complete | 20d | 04Jan10 26Feb10 | 08Jul10 04Aug10 | None | | None | | 1.2.8.1.5[FS]; 2.10.8.2[FS]; 1.2.10.3[FS]; 1.2.10.2[FS] | 2.2.1.2[FS] |
| 2.2.1.2 | Evaluate proposals and negotiate | Complete | 20d | 01Apr10 30Apr10 | 05Aug10 01Sep10 | None | | None | | 2.2.1.1[FS] | 2.2.1.3[FS] |
| 2.2.1.3 | Prepare purchase req and PO | Complete | 20d | 15Apr10 07May10 | 02Sep10 30Sep10 | None | | None | | 2.2.1.2[FS] | 2.2.1.4[FS] |
| 2.2.1.4 | Mineral oil PO issued | Complete | 0 | 07May10 07May10 | 01Oct10 01Oct10 | None | | None | | 2.2.1.3[FS]; 2.10.8.2[FS] | 2.2.1.5.1[FS+120d] |
| 2.2.1.5 | Mineral Oil Production and Delivery | In Progress | 862d | 01Jun10 31Oct13 | 01Jun10 31Oct13 | None | | None | | | |
| 2.2.1.5.1 | Mineral oil production and delivery begins | Complete | 0 | 20May11 20May11 | 02May11 02May11 | None | | None | | 2.2.1.4[FS+120d] | 2.2.1.5.2.4[FS]; 2.2.1.5.2.1[FS] |
| 2.2.1.5.2 | Mineral Oil Production, Delivery, and Storage - FY11 | Complete | 182d | 02May11 24Jan12 | 02May11 30Mar12 | None | | None | | | |
| 2.2.1.5.2.1 | Produce mineral oil - FY11 (OBSOLETE) | Complete | 1d | 02May11 02May11 | 02May11 02May11 | None | | None | | 2.2.3.4[FS]; 2.2.1.5.1[FS] | 2.2.1.6.2[SS]; 2.2.1.5.3.1[FS]; 2.2.1.5.2.2[SS] |
| 2.2.1.5.2.2 | Deliver mineral oil - FY11 (OBSOLETE) | Complete | 1d | 02May11 02May11 | 02May11 02May11 | None | | None | | 2.2.1.5.2.1[SS] | 2.2.1.5.2.3[SS]; 2.2.1.5.3.2[FS] |
| 2.2.1.5.2.3 | Store mineral oil - FY11 | Complete | 107d | 02May11 30Sep11 | 02May11 30Sep11 | None | | None | | 2.2.1.5.2.2[SS] | 2.2.1.5.3.3[FS] |
| 2.2.1.5.2.4 | Produce mineral oil - FY11 - Batch 1 | Complete | 21d | 20May11 24Jun11 | 02May11 31May11 | None | | None | | 2.2.1.5.1[FS] | 2.2.1.5.2.6[FS]; 2.2.1.5.2.5[SS]; 2.2.1.6.2[SS] |
| 2.2.1.5.2.5 | Deliver mineral oil - FY11 - Batch 1 | Complete | 21d | 20May11 24Jun11 | 02May11 31May11 | None | | None | | 2.2.1.5.2.4[SS] | 2.2.1.5.2.7[FS]; 2.2.1.6.2[SS] |
| 2.2.1.5.2.6 | Produce mineral oil - FY11 - Batch 2 | Complete | 22d | 24Jun11 01Aug11 | 01Jun11 30Jun11 | None | | None | | 2.2.1.5.2.4[FS] | 2.2.1.5.2.7[SS]; 2.2.1.6.2[FF]; 2.2.1.5.2.8[FS] |
| 2.2.1.5.2.7 | Deliver mineral oil - FY11 - Batch 2 | Complete | 22d | 24Jun11 01Aug11 | 01Jun11 30Jun11 | None | | None | | 2.2.1.5.2.6[SS]; 2.2.1.5.2.5[FS] | 2.2.1.6.2[FF]; 2.2.1.5.2.9[FS] |
| 2.2.1.5.2.8 | Produce mineral oil - Batch 3 | Complete | 20d | 01Aug11 05Oct11 | 03Jan12 31Jan12 | None | | None | | 2.2.1.5.2.6[FS] | 2.2.1.5.2.10[FS]; 2.2.1.5.2.9[SS] |
| 2.2.1.5.2.9 | Deliver mineral oil - Batch 3 | Complete | 20d | 01Aug11 05Oct11 | 03Jan12 31Jan12 | None | | None | | 2.2.1.5.2.8[SS]; 2.2.1.5.2.7[FS] | 2.2.4.3.3.3[FS]; 2.2.1.5.2.11[FS] |
| 2.2.1.5.2.10 | Produce mineral oil - Batch 4 | Complete | 21d | 05Oct11 05Dec11 | 01Feb12 29Feb12 | None | | None | | 2.2.1.5.2.8[FS] | 2.2.1.5.2.12[FS]; 2.2.1.5.2.11[SS] |
| 2.2.1.5.2.11 | Deliver mineral oil - Batch 4 | Complete | 21d | 05Oct11 05Dec11 | 01Feb12 29Feb12 | None | | None | | 2.2.1.5.2.10[SS]; 2.2.1.5.2.9[FS] | 2.2.4.3.3.4[FS]; 2.2.1.5.2.13[FS] |
| 2.2.1.5.2.12 | Produce mineral oil - Batch 5 | Complete | 22d | 05Dec11 24Jan12 | 01Mar12 30Mar12 | None | | None | | 2.2.1.5.2.10[FS] | 2.2.1.5.3.4[FS]; 2.2.1.5.2.13[SS]; 2.2.1.5.3.1[FS] |
| 2.2.1.5.2.13 | Deliver mineral oil - Batch 5 | Complete | 22d | 05Dec11 24Jan12 | 01Mar12 30Mar12 | None | | None | | 2.2.1.5.2.12[SS]; 2.2.1.5.2.11[FS] | 2.2.4.3.3.5[FS]; 2.2.1.5.3.5[FS]; 2.2.1.5.3.2[FS] |
| 2.2.1.5.3 | Mineral Oil Production, Delivery, and Storage - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.2.1.5.3.1 | Produce mineral oil - FY12 (Obsolete) | Complete | 19d | 01Aug12 27Aug12 | 04Sep12 28Sep12 | None | | None | | 2.2.1.5.2.1[FS]; 2.2.1.5.3.8[FS]; 2.2.1.5.3.6[FS]; 2.2.1.5.2.12[FS]; 2.2.1.5.3.10[FS] | 2.2.1.5.4.1[FS]; 2.2.1.5.3.2[SS] |
| 2.2.1.5.3.2 | Deliver mineral oil - FY12 (Obsolete) | Complete | 19d | 01Aug12 27Aug12 | 04Sep12 28Sep12 | None | | None | | 2.2.1.5.3.1[SS]; 2.2.1.5.3.9[FS]; 2.2.1.5.2.2[FS]; 2.2.1.5.3.7[FS]; 2.2.1.5.2.13[FS]; 2.2.1.5.3.11[FS] | 2.2.1.5.4.2[FS] |
| 2.2.1.5.3.3 | Store mineral oil - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.2.1.5.2.3[FS] | 2.2.1.5.4.3[FS] |
| 2.2.1.5.3.4 | Produce mineral oil - Batch 6 | Complete | 21d | 24Jan12 30Mar12 | 02Apr12 30Apr12 | None | | None | | 2.2.1.5.2.12[FS] | 2.2.1.5.5[FS]; 2.2.1.5.3.6[FS]; 2.2.1.6.3[SS]; 2.2.1.5.3.5[SS] |
| 2.2.1.5.3.5 | Deliver mineral oil - Batch 6 | Complete | 21d | 24Jan12 30Mar12 | 02Apr12 30Apr12 | None | | None | | 2.2.1.5.2.13[FS]; 2.2.1.5.3.4[SS] | 2.2.1.5.3.7[FS] |
| 2.2.1.5.3.6 | Produce mineral oil - Batch 7 | Complete | 22d | 30Mar12 23May12 | 01May12 31May12 | None | | None | | 2.2.1.5.3.4[FS] | 2.2.1.5.3.8[FS]; 2.2.1.5.3.1[FS]; 2.2.1.5.3.7[SS] |
| 2.2.1.5.3.7 | Deliver mineral oil - Batch 7 | Complete | 22d | 30Mar12 23May12 | 01May12 31May12 | None | | None | | 2.2.1.5.3.5[FS]; 2.2.1.5.3.6[SS] | 2.2.1.5.3.9[FS]; 2.2.1.5.3.2[FS] |
| 2.2.1.5.3.8 | Produce mineral oil - Batch 8 | Complete | 23d | 23May12 24Jul12 | 01Aug12 31Aug12 | None | | None | | 2.2.1.5.3.6[FS] | 2.2.1.5.4.6[FS]; 2.2.1.5.3.9[SS]; 2.2.1.5.3.1[FS]; 2.2.1.5.3.10[FF] |
| 2.2.1.5.3.9 | Deliver mineral oil - Batch 8 | Complete | 23d | 23May12 24Jul12 | 01Aug12 31Aug12 | None | | None | | 2.2.1.5.3.7[FS]; 2.2.1.5.3.8[SS] | 2.2.1.5.3.2[FS] |
| 2.2.1.5.3.10 | Produce mineral oil - FY12 adjustment | Complete | 1d | 24Jul12 24Jul12 | 31Aug12 31Aug12 | None | | None | | 2.2.1.5.3.8[FF] | 2.2.1.5.3.11[SS]; 2.2.1.5.3.1[FS] |
| 2.2.1.5.3.11 | Deliver mineral oil - FY12 adjustment | Complete | 1d | 24Jul12 24Jul12 | 31Aug12 31Aug12 | None | | None | | 2.2.1.5.3.10[SS] | 2.2.1.5.3.2[FS] |
| 2.2.1.5.4 | Mineral Oil Production, Delivery, and Storage - FY13 and FY14 | In Progress | 274d | 01Oct12 31Oct13 | 01Oct12 31Oct13 | None | | None | | | |
| 2.2.1.5.4.1 | Produce mineral oil - FY13 (OBSOLETE) | Planned | 1d | 02Jul13 02Jul13 | 01Aug13 01Aug13 | None | | None | | 2.2.1.5.3.1[FS]; 2.2.1.5.4.16[FS] | 2.2.1.5.4.2[SS]; 2.2.1.5.4.4[FS] |
| 2.2.1.5.4.2 | Deliver mineral oil - FY13 (OBSOLETE) | Planned | 1d | 02Jul13 02Jul13 | 01Aug13 01Aug13 | None | | None | | 2.2.1.5.4.1[SS]; 2.2.1.5.3.2[FS]; 2.2.1.5.4.17[FS] | 2.2.1.5.4.5[FS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.1.5.4.3 | Store mineral oil - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.2.1.5.3.3[FS] | 2.2.1.5.4.18[FS] |
| 2.2.1.5.4.4 | Produce mineral oil - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | None | | None | | 2.2.1.5.4.21[FS]; 2.2.1.5.4.1[FS] | 2.2.1.5.8[FS]; 2.2.1.5.7[SS+3d]; 2.2.1.5.4.5[SS] |
| 2.2.1.5.4.5 | Deliver mineral oil - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | None | | None | | 2.2.1.5.4.2[FS]; 2.2.1.5.4.22[FS]; 2.2.1.5.4.4[SS] | 2.2.1.5.8[FS]; 2.2.1.5.9[FS] |
| 2.2.1.5.4.6 | Produce mineral oil - Batch 9 | Complete | 20d | 06Feb13 01Mar13 | 01Feb13 28Feb13 | None | | None | | 2.2.1.5.3.8[FS] | 2.2.1.5.4.7[SS]; 2.2.1.5.4.8[FS] |
| 2.2.1.5.4.7 | Deliver mineral oil - Batch 9 | Complete | 20d | 06Feb13 01Mar13 | 01Feb13 28Feb13 | None | | None | | 2.2.1.5.4.6[SS] | 2.2.1.5.4.9[FS] |
| 2.2.1.5.4.8 | Produce mineral oil - Batch 10 | Complete | 21d | 15Mar13 19Apr13 | 01Mar13 29Mar13 | None | | None | | 2.2.1.5.4.6[FS] | 2.2.1.5.4.9[SS]; 2.2.1.5.4.10[FS] |
| 2.2.1.5.4.9 | Deliver mineral oil - Batch 10 | Complete | 21d | 15Mar13 19Apr13 | 01Mar13 29Mar13 | None | | None | | 2.2.1.5.4.8[SS]; 2.2.1.5.4.7[FS] | 2.2.1.5.4.11[FS] |
| 2.2.1.5.4.10 | Produce mineral oil - Batch 11 | Complete | 17d | 22Apr13 29Apr13 | 01Apr13 30Apr13 | None | | None | | 2.2.1.5.4.8[FS] | 2.2.1.5.4.11[SS]; 2.2.1.5.6[SS+9d]; 2.2.1.5.4.12[FS] |
| 2.2.1.5.4.11 | Deliver mineral oil - Batch 11 | Complete | 17d | 22Apr13 29Apr13 | 01Apr13 30Apr13 | None | | None | | 2.2.1.5.4.10[SS]; 2.2.1.5.4.9[FS] | 2.2.1.5.4.13[FS] |
| 2.2.1.5.4.12 | Produce mineral oil - Batch 12 | Complete | 22d | 29Apr13 20May13 | 01May13 31May13 | None | | None | | 2.2.1.5.4.10[FS] | 2.2.1.5.4.13[SS]; 2.2.1.5.4.14[FS+6d] |
| 2.2.1.5.4.13 | Deliver mineral oil - Batch 12 | Complete | 22d | 29Apr13 20May13 | 01May13 31May13 | None | | None | | 2.2.1.5.4.12[SS]; 2.2.1.5.4.11[FS] | 2.2.1.5.4.15[FS] |
| 2.2.1.5.4.14 | Produce mineral oil - Batch 13 | Complete | 20d | 23May13 04Jun13 | 03Jun13 28Jun13 | None | | None | | 2.2.1.5.4.12[FS+6d] | 2.2.1.5.4.15[SS]; 2.2.1.5.4.16[FS+19d] |
| 2.2.1.5.4.15 | Deliver mineral oil - Batch 13 | Complete | 20d | 23May13 04Jun13 | 03Jun13 28Jun13 | None | | None | | 2.2.1.5.4.14[SS]; 2.2.1.5.4.13[FS] | 2.2.1.5.4.17[FS] |
| 2.2.1.5.4.16 | Produce mineral oil - Batch 14 | In Progress | 22d | 04Jun13 01Jul13 | 01Jul13 31Jul13 | None | | None | | 2.2.1.5.4.14[FS+19d] | 2.2.1.5.4.17[SS]; 2.2.1.5.4.1[FS]; 2.2.1.5.4.19[FS] |
| 2.2.1.5.4.17 | Deliver mineral oil - Batch 14 | In Progress | 22d | 04Jun13 01Jul13 | 01Jul13 31Jul13 | None | | None | | 2.2.1.5.4.16[SS]; 2.2.1.5.4.15[FS] | 2.2.1.5.4.2[FS]; 2.2.1.5.4.20[FS] |
| 2.2.1.5.4.18 | Store mineral oil - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | None | | None | | 2.2.1.5.4.3[FS] | 2.2.4.3.11[FS] |
| 2.2.1.5.4.19 | Produce mineral oil - Batch 15 | Planned | 22d | 01Aug13 30Aug13 | 01Aug13 30Aug13 | Not Earlier Than | 01Aug13 | None | | 2.2.1.5.4.16[FS] | 2.2.1.5.4.21[FS]; 2.2.1.5.4.20[SS] |
| 2.2.1.5.4.20 | Deliver mineral oil - Batch 15 | Planned | 22d | 01Aug13 30Aug13 | 01Aug13 30Aug13 | None | | None | | 2.2.1.5.4.17[FS]; 2.2.1.5.4.19[SS] | 2.2.1.5.4.22[FS] |
| 2.2.1.5.4.21 | Produce mineral oil - Batch 16 | Planned | 20d | 03Sep13 30Sep13 | 03Sep13 30Sep13 | None | | None | | 2.2.1.5.4.19[FS] | 2.2.1.5.4.22[SS]; 2.2.1.5.4.4[FS] |
| 2.2.1.5.4.22 | Deliver mineral oil - Batch 16 | Planned | 20d | 03Sep13 30Sep13 | 03Sep13 30Sep13 | None | | None | | 2.2.1.5.4.21[SS]; 2.2.1.5.4.20[FS] | 2.2.1.5.4.5[FS] |
| 2.2.1.5.5 | Mineral oil production and delivery 20% completed | Complete | 0 | 01Mar12 01Mar12 | 18Apr12 18Apr12 | None | | None | | 2.2.1.5.3.4[FS] | 2.2.1.5.6[FS] |
| 2.2.1.5.6 | Mineral oil production and delivery 40% completed | Complete | 0 | 08May13 08May13 | 19Nov12 19Nov12 | None | | None | | 2.2.1.5.4.10[SS+9d]; 2.2.1.5.5[FS] | 2.2.1.5.7[FS] |
| 2.2.1.5.7 | Mineral oil production and delivery 70% completed | Planned | 0 | 03Oct13 03Oct13 | 01Mar13 01Mar13 | None | | None | | 2.2.1.5.6[FS]; 2.2.1.5.4.4[SS+3d] | 2.2.1.5.8[FS] |
| 2.2.1.5.8 | Mineral oil production and delivery completed - 14KT | Planned | 0 | 31Oct13 31Oct13 | 30Sep13 30Sep13 | None | | None | | 2.2.1.5.4.5[FS]; 2.2.1.5.4.4[FS]; 2.2.1.5.7[FS] | 2.2.1.5.9[FS] |
| 2.2.1.5.9 | Mineral oil production and delivery completed - 15KT (Obsolete) | Planned | 0 | 31Oct13 31Oct13 | 30Sep13 30Sep13 | None | | None | | 2.2.1.5.4.5[FS]; 2.2.1.5.8[FS] | |
| 2.2.1.5.10 | Mineral Oil Production and Delivery - ND | Complete | 275d | 01Jun10 01Jul11 | 01Jun10 01Jul11 | None | | None | | | |
| 2.2.1.5.10.1 | Batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | | |
| 2.2.1.5.10.1.1 | Produce mineral oil - ND - batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | | 2.2.1.5.10.1.2[SS]; 2.2.1.5.10.2.1[FS] |
| 2.2.1.5.10.1.2 | Deliver mineral oil - ND - batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | 2.2.1.5.10.1.1[SS] | 2.2.5.1[FS]; 2.2.1.6.6[SS] |
| 2.2.1.5.10.2 | Batch 2 | Complete | 1d | 01Jul11 01Jul11 | 01Jul11 01Jul11 | None | | None | | | |
| 2.2.1.5.10.2.1 | Produce mineral oil - ND - batch 2 (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 01Jul11 01Jul11 | None | | None | | 2.2.1.5.10.1.1[FS] | 2.2.1.5.10.2.2[SS] |
| 2.2.1.5.10.2.2 | Deliver mineral oil - ND - batch 2 (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 01Jul11 01Jul11 | None | | None | | 2.2.1.5.10.2.1[SS] | 2.2.1.6.7[SS] |
| 2.2.1.6 | QC-Mineral Oil | In Progress | 1028d | 01Oct09 01Nov13 | 04Jan10 30Sep13 | None | | None | | | |
| 2.2.1.6.1 | QC hardware - FY10 | Complete | 60d | 01Oct09 30Apr10 | 04Jan10 15Jan10 | None | | None | | 2.10.8.1[FS] | 2.2.1.6.2[FS] |
| 2.2.1.6.2 | QC mineral oil - FY11 | Complete | 107d | 27May11 24Jan12 | 02May11 30Sep11 | None | | None | | 2.2.1.5.2.1[SS]; 2.2.1.5.2.7[FF]; 2.2.1.5.2.6[FF]; 2.2.1.5.2.4[SS]; 2.2.1.5.2.5[SS]; 2.2.1.6.1[FS] | 2.2.1.6.3[FS]; 2.2.4.3.1[SS]; 2.2.4.3.3.2[SS+60d]; 2.2.4.3.3.1[SS+20d] |
| 2.2.1.6.3 | QC mineral oil - FY12 | In Progress | 127d | 24Jan12 24Jul13 | 02Apr12 28Sep12 | None | | None | | 2.2.1.6.2[FS]; 2.2.1.5.3.4[SS] | 2.2.1.6.4[FS] |
| 2.2.1.6.4 | QC mineral oil - FY13 | Planned | 70d | 25Jul13 31Oct13 | 12Feb13 30Sep13 | None | | None | | 2.2.1.6.3[FS] | 2.2.1.6.5[FS] |
| 2.2.1.6.6 | QC mineral oil - ND - batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | 2.2.1.5.10.1.2[SS] | 2.2.4.3.3.34[SS] |
| 2.2.1.6.7 | QC mineral oil - ND - batch 2 (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 01Jul11 01Jul11 | None | | None | | 2.2.1.5.10.2.2[SS] | |
| 2.2.1.6.8 | QC Hardware - FY11 | Complete | 42d | 28Mar11 26May11 | 01Apr11 31May11 | None | | None | | | 2.2.4.3.3.1[FS] |
| 2.2.2 | Pseudocumene | In Progress | 928d | 01Mar10 01Nov13 | 01Jun10 31Oct13 | None | | None | | | |
| 2.2.2.1 | Prepare RFP | Complete | 20d | 01Mar10 30Mar10 | 06Aug10 02Sep10 | None | | None | | 1.2.8.2.5[FS]; 2.10.8.2[FS] | 2.2.2.2[FS] |
| 2.2.2.2 | Evaluate proposals and negotiate | Complete | 20d | 01Apr10 01Sep10 | 03Sep10 01Oct10 | None | | None | | 2.2.2.1[FS] | 2.2.2.3[FS] |
| 2.2.2.3 | Prepare purchase req and PO | Complete | 20d | 21Jun10 01Sep10 | 04Oct10 29Oct10 | None | | None | | 2.2.2.2[FS] | 2.2.2.4[FS] |
| 2.2.2.4 | Pseudocumene PO issued | Complete | 0 | 01Sep10 01Sep10 | 01Nov10 01Nov10 | None | | None | | 2.2.2.3[FS] | 2.2.2.5.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.2.5 | Pseudocumene Production, Delivery, and Storage | In Progress | 862d | 01Jun10 31Oct13 | 01Jun10 31Oct13 | None | | None | | | |
| 2.2.2.5.1 | Pseudocumene production and delivery begins | Complete | 0 | 25Jul11 25Jul11 | 01Jul11 01Jul11 | None | | None | | 2.2.2.4[FS] | 2.2.2.5.2.1[FS]; 2.2.2.5.6[SS+273d]; 2.2.2.5.5[SS+136d]; 2.2.2.5.7[SS+404d] |
| 2.2.2.5.2 | Pseudocumene - FY11 | Complete | 49d | 25Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | | |
| 2.2.2.5.2.1 | Produce and deliver pseudocumene - FY11 | Complete | 18d | 25Jul11 25Jul11 | 01Jul11 27Jul11 | None | | None | | 2.2.2.5.1[FS] | 2.2.2.5.3.1[FS]; 2.2.2.5.2.2[SS]; 2.2.2.6.1[FS]; 2.2.2.5.3.3[FS] |
| 2.2.2.5.2.2 | Store pseudocumene - FY11 | Complete | 64d | 25Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.2.2.5.2.1[SS] | 2.2.2.5.3.2[FS] |
| 2.2.2.5.3 | Pseudocumene - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.2.2.5.3.1 | Produce and deliver pseudocumene - FY12 (OBSOLETE) | Complete | 1d | 11Sep12 11Sep12 | 11Sep12 11Sep12 | None | | None | | 2.2.2.5.2.1[FS]; 2.2.2.5.3.3[FS]; 2.2.2.5.3.6[FS]; 2.10.9.10[FS] | 2.2.2.6.2[SS]; 2.2.2.5.4.1[FS] |
| 2.2.2.5.3.2 | Store pseudocumene - FY12 | Complete | 229d | 03Oct11 28Sep12 | 01Nov11 28Sep12 | None | | None | | 2.2.2.5.2.2[FS]; 2.2.2.5.3.3[FS] | 2.2.2.5.4.2[FS] |
| 2.2.2.5.3.3 | Produce and deliver pseudocumene - FY12 - Carryover | Complete | 19d | 19Oct11 27Feb12 | 03Oct11 27Oct11 | None | | None | | 2.2.2.5.2.1[FS] | 2.2.2.5.3.1[FS]; 2.2.2.6.6[FS]; 2.2.2.5.3.4[FS]; 2.2.2.5.3.2[FS] |
| 2.2.2.5.3.4 | Produce and deliver pseudocumene - Tank 12-1 | Complete | 5d | 27Feb12 27Feb12 | 02Apr12 06Apr12 | None | | None | | 2.2.2.5.3.3[FS] | 2.2.2.6.7[FS]; 2.2.2.5.3.5[SS] |
| 2.2.2.5.3.5 | Produce and deliver pseudocumene - Tank 12-2 | Complete | 5d | 27Feb12 27Feb12 | 02Apr12 06Apr12 | None | | None | | 2.2.2.5.3.4[SS] | 2.2.2.6.8[FS]; 2.2.2.5.3.6[FS] |
| 2.2.2.5.3.6 | Produce and deliver pseudocumene - Tank 12-3 | Complete | 5d | 25Sep12 25Sep12 | 04Sep12 10Sep12 | None | | None | | 2.2.2.5.3.5[FS] | 2.2.2.5.4.4[FS]; 2.2.2.5.5[FS]; 2.2.2.6.9[FS]; 2.2.2.5.3.1[FS] |
| 2.2.2.5.4 | Pseudocumene - FY13 and FY14 | In Progress | 274d | 01Oct12 31Oct13 | 01Nov12 31Oct13 | None | | None | | | |
| 2.2.2.5.4.1 | Produce and deliver pseudocumene - FY13 (OBSOLETE) | Planned | 1d | 01Aug13 01Aug13 | 01Aug13 01Aug13 | None | | None | | 2.2.2.5.3.1[FS]; 2.2.2.5.4.9[FS+52d]; 2.10.9.11[FS] | 2.2.2.6.3[SS]; 2.2.2.5.4.3[FS]; 2.2.2.5.8[FS] |
| 2.2.2.5.4.2 | Store pseudocumene - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Nov12 30Sep13 | None | | None | | 2.2.2.5.3.2[FS] | 2.2.2.5.4.10[FS] |
| 2.2.2.5.4.4 | Produce and deliver pseudocumene - Tank 13-1 | Complete | 5d | 08Mar13 08Mar13 | 01Feb13 07Feb13 | None | | None | | 2.2.2.5.3.6[FS] | 2.2.2.5.4.5[FS+15d]; 2.2.2.6.10[SS] |
| 2.2.2.5.4.5 | Produce and deliver pseudocumene - Tank 13-2 | Complete | 5d | 08Mar13 08Mar13 | 01Mar13 07Mar13 | None | | None | | 2.2.2.5.4.4[FS+15d] | 2.2.2.5.4.6[FS+15d]; 2.2.2.6.11[SS] |
| 2.2.2.5.4.6 | Produce and deliver pseudocumene - Tank 13-3 | Complete | 5d | 30Apr13 30Apr13 | 01Apr13 05Apr13 | None | | None | | 2.2.2.5.4.5[FS+15d] | 2.2.2.6.12[SS]; 2.2.2.5.4.7[FS+17d] |
| 2.2.2.5.4.7 | Produce and deliver pseudocumene - Tank 13-4 | Complete | 5d | 30Apr13 30Apr13 | 01May13 07May13 | None | | None | | 2.2.2.5.4.6[FS+17d] | 2.2.2.5.4.8[FS+22d]; 2.2.2.6.13[SS] |
| 2.2.2.5.4.8 | Produce and deliver pseudocumene - Tank 13-5 | Complete | 5d | 10May13 16May13 | 03Jun13 07Jun13 | None | | None | | 2.2.2.5.4.7[FS+22d] | 2.2.2.6.14[SS]; 2.2.2.5.4.9[FS+15d] |
| 2.2.2.5.4.9 | Produce and deliver pseudocumene - Tank 13-6 | Complete | 5d | 10May13 16May13 | 01Jul13 08Jul13 | None | | None | | 2.2.2.5.4.8[FS+15d] | 2.2.2.6.15[SS]; 2.2.2.5.4.1[FS+52d]; 2.2.2.5.4.11[FS] |
| 2.2.2.5.4.10 | Store pseudocumene - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | None | | None | | 2.2.2.5.4.2[FS] | 2.2.4.3.11[FS] |
| 2.2.2.5.4.11 | Produce and deliver pseudocumene - Tank 13-7 | Complete | 5d | 18Jun13 18Jun13 | 01Aug13 07Aug13 | Not Earlier Than | 01Aug13 | None | | 2.2.2.5.4.9[FS] | 2.2.2.5.4.12[FS+17d]; 2.2.2.6.16[SS] |
| 2.2.2.5.4.12 | Produce and deliver pseudocumene - Tank 13-8 | Complete | 5d | 18Jun13 18Jun13 | 03Sep13 09Sep13 | None | | None | | 2.2.2.5.4.11[FS+17d] | 2.2.2.6.17[SS]; 2.2.2.5.4.13[FS+15d] |
| 2.2.2.5.4.13 | Produce and deliver pseudocumene - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | Not Earlier Than | 01Oct13 | None | | 2.2.2.5.4.12[FS+15d] | 2.2.2.6.18[SS]; 2.2.2.5.8[FS] |
| 2.2.2.5.5 | Pseudocumene production and delivery 25% completed | Complete | 0 | 08Mar13 08Mar13 | 12Sep12 12Sep12 | None | | None | | 2.2.2.5.3.6[FS]; 2.2.4.2.3.4[FS]; 2.2.2.5.1[SS+136d] | 2.2.2.5.6[FS] |
| 2.2.2.5.6 | Pseudocumene production and delivery 50% completed | Planned | 0 | 01Jul13 01Jul13 | 28Jan13 28Jan13 | None | | None | | 2.2.4.2.3.11[FS]; 2.2.2.5.1[SS+273d]; 2.2.2.5.5[FS] | 2.2.2.5.7[FS] |
| 2.2.2.5.7 | Pseudocumene production and delivery 75% completed | Planned | 0 | 25Sep13 25Sep13 | 05Jun13 05Jun13 | None | | None | | 2.2.4.2.3.17[FS]; 2.2.2.5.6[FS]; 2.2.2.5.1[SS+404d] | 2.2.2.5.8[FS] |
| 2.2.2.5.8 | Pseudocumene production and delivery completed - 14KT | Planned | 0 | 31Oct13 31Oct13 | 09Aug13 09Aug13 | None | | None | | 2.2.2.5.4.13[FS]; 2.2.2.5.7[FS]; 2.2.2.5.4.1[FS] | 2.2.2.5.9[FS] |
| 2.2.2.5.9 | Pseudocumene production and delivery completed - 15KT | Planned | 0 | 31Oct13 31Oct13 | 30Sep13 30Sep13 | None | | None | | 2.2.2.5.4.3[FS]; 2.2.2.5.8[FS] | |
| 2.2.2.5.10 | Produce and deliver pseudocumene - ND | Complete | 1d | 01Jun10 01Jun10 | 01Jun10 01Jun10 | None | | None | | | 2.2.2.6.5[SS] |
| 2.2.2.6 | QC-Pseudocumene | In Progress | 863d | 01Jun10 01Nov13 | 01Jun10 31Oct13 | None | | None | | | |
| 2.2.2.6.1 | QC pseudocumene - FY11 | Complete | 2d | 28Jul11 29Jul11 | 28Jul11 29Jul11 | None | | None | | 2.2.2.5.2.1[FS] | 2.2.2.6.2[FS]; 2.2.4.2.3.1[SS]; 2.2.4.2.1[SS] |
| 2.2.2.6.2 | QC pseudocumene - FY12 (OBSOLETE) | Complete | 1d | 18Sep12 18Sep12 | 18Sep12 18Sep12 | None | | None | | 2.2.2.6.1[FS]; 2.2.2.5.3.1[SS]; 2.2.2.6.9[FS] | 2.2.2.6.3[FS] |
| 2.2.2.6.3 | QC pseudocumene - FY13 (OBSOLETE) | Planned | 1d | 01Aug13 01Aug13 | 01Aug13 01Aug13 | None | | None | | 2.2.2.6.12[FS]; 2.2.2.5.4.1[SS]; 2.2.2.6.15[FS]; 2.2.2.6.2[FS] | 2.2.2.6.4[FS] |
| 2.2.2.6.5 | QC pseudocumene - ND | Complete | 2d | 01Jun10 01Jun10 | 01Jun10 02Jun10 | None | | None | | 2.2.2.5.10[SS] | 2.2.4.3.3.34[SS]; 2.2.4.3.3.35[SS] |
| 2.2.2.6.6 | QC-Pseudocumene - FY12 - Carryover | Complete | 2d | 19Oct11 30Mar12 | 28Oct11 31Oct11 | None | | None | | 2.2.2.5.3.3[FS] | 2.2.2.6.7[FS] |
| 2.2.2.6.7 | QC pseudocumene - Tank 12-1 | Complete | 5d | 30Mar12 30Mar12 | 09Apr12 13Apr12 | None | | None | | 2.2.2.5.3.4[FS]; 2.2.2.6.6[FS] | 2.2.2.6.8[SS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.2.6.8 | QC pseudocumene - Tank 12-2 | Complete | 5d | 30Mar12 30Mar12 | 09Apr12 13Apr12 | None | | None | | 2.2.2.6.7[SS]; 2.2.2.5.3.5[FS] | 2.2.2.6.9[FS] |
| 2.2.2.6.9 | QC pseudocumene - Tank 12-3 | Complete | 5d | 25Sep12 28Sep12 | 11Sep12 17Sep12 | None | | None | | 2.2.2.5.3.6[FS]; 2.2.2.6.8[FS] | 2.2.2.6.10[FS]; 2.2.2.6.2[FS] |
| 2.2.2.6.10 | QC pseudocumene - Tank 13-1 | Complete | 5d | 08Mar13 08Mar13 | 01Feb13 07Feb13 | None | | None | | 2.2.2.5.4.4[SS]; 2.2.2.6.9[FS] | 2.2.2.6.11[FS] |
| 2.2.2.6.11 | QC pseudocumene - Tank 13-2 | Complete | 5d | 08Mar13 08Mar13 | 01Mar13 07Mar13 | None | | None | | 2.2.2.5.4.5[SS]; 2.2.2.6.10[FS] | 2.2.2.6.12[FS] |
| 2.2.2.6.12 | QC pseudocumene - Tank 13-3 | Complete | 5d | 30Apr13 30Apr13 | 01Apr13 05Apr13 | None | | None | | 2.2.2.6.11[FS]; 2.2.2.5.4.6[SS] | 2.2.2.6.3[FS]; 2.2.2.6.13[FS+17d] |
| 2.2.2.6.13 | QC pseudocumene - Tank 13-4 | Complete | 5d | 30Apr13 30Apr13 | 01May13 07May13 | None | | None | | 2.2.2.6.12[FS+17d]; 2.2.2.5.4.7[SS] | 2.2.2.6.14[FS+17d] |
| 2.2.2.6.14 | QC pseudocumene - Tank 13-5 | Complete | 5d | 10May13 16May13 | 03Jun13 07Jun13 | None | | None | | 2.2.2.6.13[FS+17d]; 2.2.2.5.4.8[SS] | 2.2.2.6.15[FS+15d] |
| 2.2.2.6.15 | QC pseudocumene - Tank 13-6 | Complete | 5d | 10May13 16May13 | 01Jul13 08Jul13 | None | | None | | 2.2.2.6.14[FS+15d]; 2.2.2.5.4.9[SS] | 2.2.2.6.3[FS]; 2.2.2.6.16[FS] |
| 2.2.2.6.16 | QC pseudocumene - Tank 13-7 | Planned | 5d | 01Jul13 08Jul13 | 01Aug13 07Aug13 | None | | None | | 2.2.2.6.15[FS]; 2.2.2.5.4.11[SS] | 2.2.2.6.17[FS] |
| 2.2.2.6.17 | QC pseudocumene - Tank 13-8 | Planned | 5d | 09Jul13 15Jul13 | 03Sep13 09Sep13 | None | | None | | 2.2.2.5.4.12[SS]; 2.2.2.6.16[FS] | 2.2.2.6.18[FS] |
| 2.2.2.6.18 | QC pseudocumene - FY14 | Planned | 23d | 01Oct13 31Oct13 | 01Oct13 31Oct13 | None | | None | | 2.2.2.5.4.13[SS]; 2.2.2.6.17[FS] | 2.2.2.6.4[FS] |
| 2.2.3 | Waveshifters and Stadis 425 | Complete | 719d | 01Apr09 12Feb12 | 02Feb09 29Jul11 | None | | None | | | |
| 2.2.3.1 | Prepare RFP | Complete | 20d | 01Apr09 21Apr09 | 02Feb09 27Feb09 | None | | None | | 1.2.8.3.3[FS]; 2.10.8.1[FS] | 2.2.3.2[FS] |
| 2.2.3.2 | Evaluate proposals | Complete | 40d | 15May09 20May09 | 02Mar09 24Apr09 | None | | None | | 2.2.3.1[FS] | 2.2.3.3[FS] |
| 2.2.3.3 | Prepare purchase req and PO | Complete | 20d | 29May09 08Jun09 | 27Apr09 22May09 | None | | None | | 2.2.3.2[FS] | 2.2.3.4[FS] |
| 2.2.3.4 | Waveshifter PO issued | Complete | 0 | 08Jun09 08Jun09 | 22May09 22May09 | None | | None | | 2.10.8.1[FS]; 2.2.3.3[FS] | 2.2.1.5.2.1[FS]; 2.2.3.5.1[FS] |
| 2.2.3.5 | Waveshifter Production and Delivery | Complete | 477d | 01Jul09 24May11 | 26May09 06May11 | None | | None | | | |
| 2.2.3.5.1 | Waveshifter production and delivery begins | Complete | 0 | 01Jul09 01Jul09 | 26May09 26May09 | None | | None | | 2.2.3.4[FS] | 2.2.3.5.4[SS]; 2.2.3.5.2[SS] |
| 2.2.3.5.2 | Produce and deliver waveshifters - low-rate - FY09 | Complete | 64d | 01Jul09 15Sep09 | 26May09 23Sep09 | None | | None | | 2.2.3.5.1[SS] | 2.2.3.6.1[SS]; 2.2.3.5.4[FS]; 2.2.3.5.3[FS] |
| 2.2.3.5.3 | Produce and deliver waveshifters - full-rate - FY10 | Complete | 112d | 16Oct09 03Mar10 | 16Oct09 31Mar10 | None | | None | | 2.2.3.5.2[FS] | 2.2.3.5.8[FS]; 2.2.3.6.2[SS]; 2.10.9.12[SS+31d]; 2.2.3.5.5[FS]; 2.2.3.5.6[FS] |
| 2.2.3.5.4 | Waveshifter production 15% completed | Complete | 0 | 30Sep09 30Sep09 | 23Sep09 23Sep09 | None | | None | | 2.2.3.5.2[FS]; 2.2.3.5.1[SS] | 2.2.3.5.5[FS] |
| 2.2.3.5.5 | Waveshifter production completed - 14KT | Complete | 0 | 19May10 19May10 | 26May10 26May10 | None | | None | | 2.2.3.5.8[FS]; 2.2.3.5.3[FS]; 2.2.3.5.4[FS] | 2.2.3.5.7[FS] |
| 2.2.3.5.6 | Produce and deliver waveshifters - full-rate - FY10 - 15th KT | Complete | 24d | 01Apr10 19May10 | 27May10 30Jun10 | None | | None | | 2.2.3.5.8[FS]; 2.2.3.5.3[FS] | 2.2.3.5.7[FS] |
| 2.2.3.5.7 | Waveshifter production completed - 15KT | Complete | 0 | 19May10 19May10 | 30Jun10 30Jun10 | None | | None | | 2.2.3.5.6[FS]; 2.2.3.5.5[FS] | |
| 2.2.3.5.8 | Produce and deliver additional waveshifter for increased scintillator brightness | Complete | 40d | 04Mar10 19May10 | 01Apr10 26May10 | None | | None | | 2.2.3.5.3[FS] | 2.2.3.5.5[FS]; 2.2.3.5.6[FS] |
| 2.2.3.5.9 | Prepare and issue PO for additional wavelength-shifting powders for 16kt-18kt detector | Complete | 5d | 20Dec10 27Dec10 | 20Dec10 28Dec10 | None | | None | | | 2.2.3.5.10[FS+90d] |
| 2.2.3.5.10 | Deliver additional wavelength-shifting powders for 16kt-18kt detector | Complete | 1d | 24May11 24May11 | 06May11 06May11 | None | | None | | 2.2.3.5.9[FS+90d] | |
| 2.2.3.6 | QC-Waveshifters | Complete | 115d | 15Sep09 03Mar10 | 26May09 31Mar10 | None | | None | | | |
| 2.2.3.6.1 | QC-waveshifter - FY09 | Complete | 21d | 15Sep09 30Sep09 | 26May09 23Sep09 | None | | None | | 2.2.3.5.2[SS] | 2.2.3.6.2[FS] |
| 2.2.3.6.2 | QC-waveshifter - FY10 | Complete | 112d | 16Oct09 03Mar10 | 16Oct09 31Mar10 | None | | None | | 2.2.3.5.3[SS]; 2.2.3.6.1[FS] | 2.2.4.2.1[FS]; 2.2.4.2.3.1[SS] |
| 2.2.3.7 | Deliver Stadis-425 FY11 | Complete | 20d | 01Oct10 12Feb12 | 01Jul11 29Jul11 | None | | None | | | 2.2.4.2.1[SS+10d] |
| 2.2.4 | Blending | In Progress | 1655d | 01Oct07 05May14 | 01Oct07 07Mar14 | None | | None | | | |
| 2.2.4.1 | Toll Blending Contract | Complete | 355d | 04Jan10 27May11 | 09Jul10 01Nov10 | None | | None | | | |
| 2.2.4.1.1 | Prepare RFP | Complete | 20d | 04Jan10 31Mar10 | 09Jul10 05Aug10 | None | | None | | 2.10.8.1[FS] | 2.2.4.1.2[FS] |
| 2.2.4.1.2 | Evaluate proposals and negotiate | Complete | 40d | 01Apr10 27May11 | 06Aug10 01Oct10 | None | | None | | 2.2.4.1.1[FS] | 2.2.4.1.3[FS] |
| 2.2.4.1.3 | Prepare purchase req and PO | Complete | 20d | 07May10 27May11 | 04Oct10 29Oct10 | None | | None | | 2.2.4.1.2[FS] | 2.2.4.1.4[FS] |
| 2.2.4.1.4 | Toll blending PO issued | Complete | 0 | 27May11 27May11 | 01Nov10 01Nov10 | None | | None | | 2.10.9.9[FS]; 2.2.4.1.3[FS] | 2.2.4.2.1[FS]; 2.2.4.3.1[FS] |
| 2.2.4.2 | Fluors | In Progress | 601d | 15Nov11 10Apr14 | 25Jul11 12Feb14 | None | | None | | | |
| 2.2.4.2.1 | Prepare preproduction batch of fluor concentrate (Obsolete) | Complete | 1d | 15Nov11 16Nov11 | 25Jul11 25Jul11 | None | | None | | 2.2.3.7[SS+10d]; 2.2.3.6.2[FS]; 2.2.2.6.1[SS]; 2.2.4.1.4[FS] | 2.2.4.3.5[SS]; 2.2.4.2.3.1[SS]; 2.2.4.2.2[FS] |
| 2.2.4.2.2 | QC preproduction batch of fluor concentrate (Obsolete) | Complete | 20d | 15Nov11 16Nov11 | 26Jul11 22Aug11 | None | | None | | 2.2.4.2.1[FS] | 2.2.4.2.4.1[SS]; 2.2.4.3.1[FS] |
| 2.2.4.2.3 | Production Blending of Fluor Concentrate | In Progress | 599d | 15Nov11 08Apr14 | 25Jul11 10Feb14 | None | | None | | | |
| 2.2.4.2.3.1 | Produce fluor concentrate for block 1 | Complete | 1d | 15Nov11 16Nov11 | 25Jul11 25Jul11 | None | | None | | 2.2.2.6.1[SS]; 2.2.4.2.1[SS]; 2.2.3.6.2[SS] | 2.2.4.2.4.1[FS]; 2.2.4.2.3.2[FS+11d] |
| 2.2.4.2.3.2 | Produce fluor concentrate for block 2 | Complete | 2d | 15Nov11 19Jan12 | 17Jan12 18Jan12 | None | | None | | 2.2.4.3.4.1[FS]; 2.2.4.2.3.1[FS+11d] | 2.2.4.2.4.2[FS]; 2.2.4.2.3.3[FS+11d] |
| 2.2.4.2.3.3 | Produce fluor concentrate for block 3 | Complete | 2d | 19Jan12 17Apr12 | 23Aug12 24Aug12 | None | | None | | 2.2.4.2.3.2[FS+11d]; 2.2.4.3.4.2[FS]; 2.2.5.3.1[FS] | 2.2.4.2.4.3[FS]; 2.2.4.2.3.4[FS+10d] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.4.2.3.4 | Produce fluor concentrate for block 4 | Complete | 2d | 17Apr12 06Feb13 | 12Sep12 13Sep12 | None | | None | | 2.2.4.2.3.3[FS+10d] | 2.2.2.5.5[FS]; 2.2.4.2.4.4[FS]; 2.2.4.2.3.5[FS+10d] |
| 2.2.4.2.3.5 | Produce fluor concentrate for block 5 | Complete | 2d | 06Feb13 13Mar13 | 01Oct12 02Oct12 | None | | None | | 2.2.4.2.3.4[FS+10d] | 2.2.4.2.4.5[FS]; 2.2.4.2.3.6[FS+10d] |
| 2.2.4.2.3.6 | Produce fluor concentrate for block 6 | Complete | 2d | 13Mar13 13Mar13 | 18Oct12 19Oct12 | None | | None | | 2.2.4.2.3.5[FS+10d] | 2.2.4.2.3.7[FS+10d]; 2.2.4.2.4.6[FS] |
| 2.2.4.2.3.7 | Produce fluor concentrate for block 7 | Complete | 2d | 13Mar13 04Apr13 | 25Jan13 28Jan13 | None | | None | | 2.2.4.2.3.6[FS+10d] | 2.2.4.2.4.7[FS]; 2.2.4.2.3.8[FS+10d] |
| 2.2.4.2.3.8 | Produce fluor concentrate for block 8 | Complete | 2d | 04Apr13 10Apr13 | 12Feb13 13Feb13 | None | | None | | 2.2.4.2.3.7[FS+10d] | 2.2.4.2.4.8[FS]; 2.2.4.2.3.9[FS+10d] |
| 2.2.4.2.3.9 | Produce fluor concentrate for block 9 | Complete | 2d | 10Apr13 10May13 | 28Feb13 01Mar13 | None | | None | | 2.2.4.2.3.8[FS+10d] | 2.2.4.2.4.9[FS]; 2.2.4.2.3.10[FS+10d] |
| 2.2.4.2.3.10 | Produce fluor concentrate for block 10 | Complete | 2d | 10May13 04Jun13 | 18Mar13 19Mar13 | None | | None | | 2.2.4.2.3.9[FS+10d] | 2.2.4.2.4.10[FS]; 2.2.4.2.3.11[FS+10d] |
| 2.2.4.2.3.11 | Produce fluor concentrate for block 11 | Complete | 2d | 04Jun13 13Jun13 | 03Apr13 04Apr13 | None | | None | | 2.2.4.2.3.10[FS+10d] | 2.2.4.2.4.11[FS]; 2.2.4.2.3.12[FS+10d]; 2.2.2.5.6[FS] |
| 2.2.4.2.3.12 | Produce fluor concentrate for block 12 | In Progress | 2d | 13Jun13 01Jul13 | 19Apr13 22Apr13 | None | | None | | 2.2.4.2.3.11[FS+10d] | 2.2.4.2.3.13[FS+10d]; 2.2.4.2.4.12[FS] |
| 2.2.4.2.3.13 | Produce fluor concentrate for block 13 | Planned | 2d | 17Jul13 18Jul13 | 07May13 08May13 | None | | None | | 2.2.4.2.3.12[FS+10d] | 2.2.4.2.3.14[FS+10d]; 2.2.4.2.4.13[FS] |
| 2.2.4.2.3.14 | Produce fluor concentrate for block 14 | Planned | 2d | 02Aug13 05Aug13 | 23May13 24May13 | None | | None | | 2.2.4.2.3.13[FS+10d] | 2.2.4.2.3.15[FS+10d]; 2.2.4.2.4.14[FS] |
| 2.2.4.2.3.15 | Produce fluor concentrate for block 15 | Planned | 2d | 20Aug13 21Aug13 | 11Jun13 12Jun13 | None | | None | | 2.2.4.2.3.14[FS+10d] | 2.2.4.2.3.16[FS+10d]; 2.2.4.2.4.15[FS] |
| 2.2.4.2.3.16 | Produce fluor concentrate for block 16 | Planned | 2d | 06Sep13 09Sep13 | 27Jun13 28Jun13 | None | | None | | 2.2.4.2.3.15[FS+10d] | 2.2.4.2.3.17[FS+10d]; 2.2.4.2.4.16[FS] |
| 2.2.4.2.3.17 | Produce fluor concentrate for block 17 | Planned | 2d | 24Sep13 25Sep13 | 16Jul13 17Jul13 | None | | None | | 2.2.4.2.3.16[FS+10d] | 2.2.4.2.3.18[FS+10d]; 2.2.4.2.4.17[FS]; 2.2.2.5.7[FS] |
| 2.2.4.2.3.18 | Produce fluor concentrate for block 18 | Planned | 2d | 10Oct13 11Oct13 | 01Aug13 02Aug13 | None | | None | | 2.2.4.2.3.17[FS+10d] | 2.2.4.2.3.19[FS+10d]; 2.2.4.2.4.18[FS] |
| 2.2.4.2.3.19 | Produce fluor concentrate for block 19 | Planned | 2d | 28Oct13 29Oct13 | 19Aug13 20Aug13 | None | | None | | 2.2.4.2.3.18[FS+10d] | 2.2.4.2.4.19[FS]; 2.2.4.2.3.20[FS+10d] |
| 2.2.4.2.3.20 | Produce fluor concentrate for block 20 | Planned | 2d | 13Nov13 14Nov13 | 05Sep13 06Sep13 | None | | None | | 2.2.4.2.3.19[FS+10d] | 2.2.4.2.4.20[FS]; 2.2.4.2.3.21[FS+10d] |
| 2.2.4.2.3.21 | Produce fluor concentrate for block 21 | Planned | 2d | 03Dec13 04Dec13 | 24Sep13 25Sep13 | None | | None | | 2.2.4.2.3.20[FS+10d] | 2.2.4.2.4.21[FS]; 2.2.4.2.3.22[FS+10d] |
| 2.2.4.2.3.22 | Produce fluor concentrate for block 22 | Planned | 2d | 19Dec13 20Dec13 | 11Oct13 14Oct13 | None | | None | | 2.2.4.2.3.21[FS+10d] | 2.2.4.2.4.22[FS]; 2.2.4.2.3.23[FS+10d] |
| 2.2.4.2.3.23 | Produce fluor concentrate for block 23 | Planned | 2d | 10Jan14 13Jan14 | 30Oct13 31Oct13 | None | | None | | 2.2.4.2.3.22[FS+10d] | 2.2.4.2.3.24[FS+10d]; 2.2.4.2.4.23[FS] |
| 2.2.4.2.3.24 | Produce fluor concentrate for block 24 | Planned | 2d | 29Jan14 30Jan14 | 18Nov13 19Nov13 | None | | None | | 2.2.4.2.3.23[FS+10d] | 2.2.4.2.3.25[FS+10d]; 2.2.4.2.4.24[FS] |
| 2.2.4.2.3.25 | Produce fluor concentrate for block 25 | Planned | 2d | 14Feb14 17Feb14 | 09Dec13 10Dec13 | None | | None | | 2.2.4.2.3.24[FS+10d] | 2.2.4.2.3.26[FS+10d]; 2.2.4.2.4.25[FS] |
| 2.2.4.2.3.26 | Produce fluor concentrate for block 26 | Planned | 2d | 04Mar14 05Mar14 | 30Dec13 02Jan14 | None | | None | | 2.2.4.2.3.25[FS+10d] | 2.2.4.2.4.26[FS]; 2.2.4.2.3.27[FS+10d] |
| 2.2.4.2.3.27 | Produce fluor concentrate for block 27 | Planned | 2d | 20Mar14 21Mar14 | 21Jan14 22Jan14 | None | | None | | 2.2.4.2.3.26[FS+10d] | 2.2.4.2.4.27[FS]; 2.2.4.2.3.28[FS+10d] |
| 2.2.4.2.3.28 | Produce fluor concentrate for block 28 | Planned | 2d | 07Apr14 08Apr14 | 07Feb14 10Feb14 | None | | None | | 2.2.4.2.3.27[FS+10d] | 2.2.4.2.3.29[FF]; 2.2.4.2.4.28[FS] |
| 2.2.4.2.3.29 | Produce fluor concentrate for block 29 (OBSOLETE) | Planned | 1d | 08Apr14 08Apr14 | 10Feb14 10Feb14 | None | | None | | 2.2.4.2.3.28[FF] | 2.2.4.2.4.29[FS]; 2.2.4.2.3.30[FF] |
| 2.2.4.2.3.30 | Produce fluor concentrate for block 30 (OBSOLETE) | Planned | 1d | 08Apr14 08Apr14 | 10Feb14 10Feb14 | None | | None | | 2.2.4.2.3.29[FF] | 2.2.4.2.3.31[FF]; 2.2.4.2.4.30[FS] |
| 2.2.4.2.4 | QC - Production Fluor Concentrate | In Progress | 601d | 15Nov11 10Apr14 | 26Jul11 12Feb14 | None | | None | | | |
| 2.2.4.2.4.1 | QC fluor concentrate for block 1 | Complete | 20d | 15Nov11 16Nov11 | 26Jul11 22Aug11 | None | | None | | 2.2.4.2.3.1[FS]; 2.2.4.2.2[SS] | 2.2.4.2.4.2[FS]; 2.2.4.3.3.1[FS] |
| 2.2.4.2.4.2 | QC fluor concentrate for block 2 | Complete | 20d | 15Nov11 19Jan12 | 19Jan12 15Feb12 | None | | None | | 2.2.4.2.3.2[FS]; 2.2.4.2.4.1[FS] | 2.2.4.2.4.3[FS]; 2.2.4.3.3.2[FS] |
| 2.2.4.2.4.3 | QC fluor concentrate for block 3 | Complete | 2d | 19Jan12 17Apr12 | 27Aug12 28Aug12 | None | | None | | 2.2.4.2.4.2[FS]; 2.2.4.2.3.3[FS] | 2.2.4.2.4.4[FS]; 2.2.4.3.3.3[FS] |
| 2.2.4.2.4.4 | QC fluor concentrate for block 4 | Complete | 2d | 17Apr12 06Feb13 | 14Sep12 17Sep12 | None | | None | | 2.2.4.2.3.4[FS]; 2.2.4.2.4.3[FS] | 2.2.4.2.4.5[FS]; 2.2.4.3.3.4[FS] |
| 2.2.4.2.4.5 | QC fluor concentrate for block 5 | Complete | 2d | 06Feb13 13Mar13 | 03Oct12 04Oct12 | None | | None | | 2.2.4.2.4.4[FS]; 2.2.4.2.3.5[FS] | 2.2.4.2.4.6[FS]; 2.2.4.3.3.5[FS] |
| 2.2.4.2.4.6 | QC fluor concentrate for block 6 | Complete | 2d | 13Mar13 13Mar13 | 22Oct12 23Oct12 | None | | None | | 2.2.4.2.4.5[FS]; 2.2.4.2.3.6[FS] | 2.2.4.2.4.7[FS]; 2.2.4.3.3.6[FS] |
| 2.2.4.2.4.7 | QC fluor concentrate for block 7 | Complete | 2d | 13Mar13 04Apr13 | 29Jan13 30Jan13 | None | | None | | 2.2.4.2.4.6[FS]; 2.2.4.2.3.7[FS] | 2.2.4.2.4.8[FS]; 2.2.4.3.3.7[FS] |
| 2.2.4.2.4.8 | QC fluor concentrate for block 8 | Complete | 2d | 04Apr13 18Apr13 | 14Feb13 15Feb13 | None | | None | | 2.2.4.2.3.8[FS]; 2.2.4.2.4.7[FS] | 2.2.4.2.4.9[FS]; 2.2.4.3.3.8[FS] |
| 2.2.4.2.4.9 | QC fluor concentrate for block 9 | Complete | 2d | 18Apr13 10May13 | 04Mar13 05Mar13 | None | | None | | 2.2.4.2.3.9[FS]; 2.2.4.2.4.8[FS] | 2.2.4.2.4.10[FS]; 2.2.4.3.3.9[FS] |
| 2.2.4.2.4.10 | QC fluor concentrate for block 10 | Complete | 2d | 10May13 04Jun13 | 20Mar13 21Mar13 | None | | None | | 2.2.4.2.3.10[FS]; 2.2.4.2.4.9[FS] | 2.2.4.2.4.11[FS]; 2.2.4.3.3.10[FS] |
| 2.2.4.2.4.11 | QC fluor concentrate for block 11 | Complete | 2d | 04Jun13 13Jun13 | 05Apr13 08Apr13 | None | | None | | 2.2.4.2.3.11[FS]; 2.2.4.2.4.10[FS] | 2.2.4.2.4.12[FS]; 2.2.4.3.3.11[FS] |
| 2.2.4.2.4.12 | QC fluor concentrate for block 12 | In Progress | 2d | 13Jun13 02Jul13 | 23Apr13 24Apr13 | None | | None | | 2.2.4.2.3.12[FS]; 2.2.4.2.4.11[FS] | 2.2.4.2.4.13[SS]; 2.2.4.3.3.12[FS] |
| 2.2.4.2.4.13 | QC fluor concentrate for block 13 | Planned | 2d | 19Jul13 22Jul13 | 09May13 10May13 | None | | None | | 2.2.4.2.4.12[SS]; 2.2.4.2.3.13[FS] | 2.2.4.2.4.14[SS]; 2.2.4.3.3.13[FS] |
| 2.2.4.2.4.14 | QC fluor concentrate for block 14 | Planned | 2d | 06Aug13 07Aug13 | 28May13 29May13 | None | | None | | 2.2.4.2.4.13[SS]; 2.2.4.2.3.14[FS] | 2.2.4.2.4.15[SS]; 2.2.4.3.3.14[FS] |
| 2.2.4.2.4.15 | QC fluor concentrate for block 15 | Planned | 2d | 22Aug13 23Aug13 | 13Jun13 14Jun13 | None | | None | | 2.2.4.2.4.14[SS]; 2.2.4.2.3.15[FS] | 2.2.4.2.4.16[SS]; 2.2.4.3.3.15[FS] |
| 2.2.4.2.4.16 | QC fluor concentrate for block 16 | Planned | 2d | 10Sep13 11Sep13 | 01Jul13 02Jul13 | None | | None | | 2.2.4.2.3.16[FS]; 2.2.4.2.4.15[SS] | 2.2.4.3.3.16[FS]; 2.2.4.2.4.17[SS] |
| 2.2.4.2.4.17 | QC fluor concentrate for block 17 | Planned | 2d | 26Sep13 27Sep13 | 18Jul13 19Jul13 | None | | None | | 2.2.4.2.3.17[FS]; 2.2.4.2.4.16[SS] | 2.2.4.2.4.18[SS]; 2.2.4.3.3.17[FS] |
| 2.2.4.2.4.18 | QC fluor concentrate for block 18 | Planned | 2d | 14Oct13 15Oct13 | 05Aug13 06Aug13 | None | | None | | 2.2.4.2.4.17[SS]; 2.2.4.2.3.18[FS] | 2.2.4.2.4.19[SS]; 2.2.4.3.3.18[FS] |
| 2.2.4.2.4.19 | QC fluor concentrate for block 19 | Planned | 2d | 30Oct13 31Oct13 | 21Aug13 22Aug13 | None | | None | | 2.2.4.2.3.19[FS]; 2.2.4.2.4.18[SS] | 2.2.4.2.4.20[SS]; 2.2.4.3.3.19[FS] |
| 2.2.4.2.4.20 | QC fluor concentrate for block 20 | Planned | 2d | 15Nov13 18Nov13 | 09Sep13 10Sep13 | None | | None | | 2.2.4.2.3.20[FS]; 2.2.4.2.4.19[SS] | 2.2.4.2.4.21[SS]; 2.2.4.3.3.20[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.4.2.4.21 | QC fluor concentrate for block 21 | Planned | 2d | 05Dec13 06Dec13 | 26Sep13 27Sep13 | None | | None | | 2.2.4.2.3.21[FS]; 2.2.4.2.4.20[SS] | 2.2.4.2.4.22[SS]; 2.2.4.3.3.21[FS] |
| 2.2.4.2.4.22 | QC fluor concentrate for block 22 | Planned | 2d | 23Dec13 26Dec13 | 15Oct13 16Oct13 | None | | None | | 2.2.4.2.3.22[FS]; 2.2.4.2.4.21[SS] | 2.2.4.2.4.23[SS]; 2.2.4.3.3.22[FS] |
| 2.2.4.2.4.23 | QC fluor concentrate for block 23 | Planned | 2d | 14Jan14 15Jan14 | 01Nov13 04Nov13 | None | | None | | 2.2.4.2.4.22[SS]; 2.2.4.2.3.23[FS] | 2.2.4.2.4.24[SS]; 2.2.4.3.3.23[FS] |
| 2.2.4.2.4.24 | QC fluor concentrate for block 24 | Planned | 2d | 31Jan14 03Feb14 | 20Nov13 21Nov13 | None | | None | | 2.2.4.2.4.23[SS]; 2.2.4.2.3.24[FS] | 2.2.4.2.4.25[SS]; 2.2.4.3.3.24[FS] |
| 2.2.4.2.4.25 | QC fluor concentrate for block 25 | Planned | 2d | 18Feb14 19Feb14 | 11Dec13 12Dec13 | None | | None | | 2.2.4.2.4.24[SS]; 2.2.4.2.3.25[FS] | 2.2.4.2.4.26[SS]; 2.2.4.3.3.25[FS] |
| 2.2.4.2.4.26 | QC fluor concentrate for block 26 | Planned | 2d | 06Mar14 07Mar14 | 03Jan14 06Jan14 | None | | None | | 2.2.4.2.3.26[FS]; 2.2.4.2.4.25[SS] | 2.2.4.2.4.27[SS]; 2.2.4.3.3.26[FS] |
| 2.2.4.2.4.27 | QC fluor concentrate for block 27 | Planned | 2d | 24Mar14 25Mar14 | 23Jan14 24Jan14 | None | | None | | 2.2.4.2.3.27[FS]; 2.2.4.2.4.26[SS] | 2.2.4.2.4.28[SS]; 2.2.4.3.3.27[FS] |
| 2.2.4.2.4.28 | QC fluor concentrate for block 28 | Planned | 2d | 09Apr14 10Apr14 | 11Feb14 12Feb14 | None | | None | | 2.2.4.2.4.27[SS]; 2.2.4.2.3.28[FS] | 2.2.4.2.4.29[FF]; 2.2.4.3.3.28[FS] |
| 2.2.4.2.4.29 | QC fluor concentrate for block 29 (OBSOLETE) | Planned | 1d | 10Apr14 10Apr14 | 12Feb14 12Feb14 | None | | None | | 2.2.4.2.4.28[FF]; 2.2.4.2.3.29[FS] | 2.2.4.2.4.30[SS]; 2.2.4.3.3.29[FS] |
| 2.2.4.2.4.30 | QC fluor concentrate for block 30 (OBSOLETE) | Planned | 1d | 10Apr14 10Apr14 | 12Feb14 12Feb14 | None | | None | | 2.2.4.2.4.29[SS]; 2.2.4.2.3.30[FS] | 2.2.4.2.4.31[SS]; 2.2.4.3.3.30[FS] |
| 2.2.4.3 | Scintillator Blending | In Progress | 987d | 01Jun10 05May14 | 01Jun10 07Mar14 | None | | None | | | |
| 2.2.4.3.1 | Prepare preproduction batch of scintillator blend (OBSOLETE) | Complete | 2d | 01Dec11 02Dec11 | 01Nov11 02Nov11 | None | | None | | 2.2.1.6.2[SS]; 2.2.4.1.4[FS]; 2.2.4.2.2[FS] | 2.2.4.3.2[FS]; 2.2.4.3.3.1[SS] |
| 2.2.4.3.2 | QC preproduction batch of scintillator blend (OBSOLETE) | Complete | 25d | 05Dec11 05Dec11 | 03Nov11 09Dec11 | None | | None | | 2.2.4.3.1[FS] | 2.2.4.3.4.1[SS] |
| 2.2.4.3.3 | Production Blending of Scintillator | In Progress | 986d | 01Jun10 02May14 | 01Jun10 06Mar14 | None | | None | | | |
| 2.2.4.3.3.1 | Blend scintillator for block 1 | Complete | 2d | 05Dec11 05Dec11 | 02Dec11 05Dec11 | None | | None | | 2.2.4.3.1[SS]; 2.2.4.2.4.1[FS]; 2.2.1.6.2[SS+20d]; 2.2.1.6.8[FS] | 2.2.4.3.4.1[FS]; 2.2.4.3.3.2[FS] |
| 2.2.4.3.3.2 | Blend scintillator for block 2 | Complete | 2d | 05Dec11 28Feb12 | 16Feb12 17Feb12 | None | | None | | 2.2.4.2.4.2[FS]; 2.2.4.3.3.1[FS]; 2.2.1.6.2[SS+60d] | 2.2.4.3.3.3[FS]; 2.2.4.3.4.2[FS] |
| 2.2.4.3.3.3 | Blend scintillator for block 3 | Complete | 2d | 28Feb12 31Jan13 | 29Aug12 30Aug12 | None | | None | | 2.2.1.5.2.9[FS]; 2.2.4.2.4.3[FS]; 2.2.4.3.3.2[FS]; 2.2.5.3.1[FS-3d] | 2.2.4.3.3.4[FS]; 2.2.4.3.4.3[FS] |
| 2.2.4.3.3.4 | Blend scintillator for block 4 | Complete | 2d | 31Jan13 12Mar13 | 03Oct12 04Oct12 | None | | None | | 2.2.1.5.2.11[FS]; 2.2.4.2.4.4[FS]; 2.2.4.3.3.3[FS]; 2.2.5.3.3[FS-3d] | 2.2.4.3.3.5[FS]; 2.2.4.3.4.4[FS] |
| 2.2.4.3.3.5 | Blend scintillator for block 5 | Complete | 2d | 12Mar13 27Mar13 | 17Oct12 18Oct12 | None | | None | | 2.2.1.5.2.13[FS]; 2.2.4.2.4.5[FS]; 2.2.4.3.3.4[FS]; 2.2.5.3.4[FS-3d] | 2.2.4.3.3.6[FS]; 2.2.4.3.6[FS]; 2.2.4.3.4.5[FS] |
| 2.2.4.3.3.6 | Blend scintillator for block 6 | Complete | 2d | 27Mar13 08Apr13 | 31Oct12 01Nov12 | None | | None | | 2.2.4.2.4.6[FS]; 2.2.4.3.3.5[FS]; 2.2.5.3.5[FS-3d] | 2.2.4.3.3.7[FS]; 2.2.4.3.4.6[FS] |
| 2.2.4.3.3.7 | Blend scintillator for block 7 | Complete | 2d | 08Apr13 08Apr13 | 18Feb13 19Feb13 | None | | None | | 2.2.4.2.4.7[FS]; 2.2.4.3.3.6[FS]; 2.2.5.3.6[FS-3d] | 2.2.4.3.3.8[FS]; 2.2.4.3.4.7[FS] |
| 2.2.4.3.3.8 | Blend scintillator for block 8 | Complete | 2d | 08Apr13 26Apr13 | 04Mar13 05Mar13 | None | | None | | 2.2.4.2.4.8[FS]; 2.2.4.3.3.7[FS]; 2.2.5.3.7[FS-3d] | 2.2.4.3.3.9[FS]; 2.2.4.3.4.8[FS] |
| 2.2.4.3.3.9 | Blend scintillator for block 9 | Complete | 2d | 26Apr13 20May13 | 18Mar13 19Mar13 | None | | None | | 2.2.4.3.3.8[FS]; 2.2.4.2.4.9[FS]; 2.2.5.3.8[FS-3d] | 2.2.4.3.3.10[FS]; 2.2.4.3.4.9[FS] |
| 2.2.4.3.3.10 | Blend scintillator for block 10 | Complete | 2d | 20May13 07Jun13 | 01Apr13 02Apr13 | None | | None | | 2.2.4.2.4.10[FS]; 2.2.4.3.3.9[FS]; 2.2.5.3.9[FS-3d] | 2.2.4.3.3.11[FS]; 2.2.4.3.7[FS]; 2.2.4.3.4.10[FS] |
| 2.2.4.3.3.11 | Blend scintillator for block 11 | Complete | 2d | 07Jun13 27Jun13 | 15Apr13 16Apr13 | None | | None | | 2.2.4.2.4.11[FS]; 2.2.4.3.3.10[FS]; 2.2.5.3.10[FS-3d] | 2.2.4.3.3.12[FS]; 2.2.4.3.4.11[FS] |
| 2.2.4.3.3.12 | Blend scintillator for block 12 | In Progress | 2d | 27Jun13 05Jul13 | 29Apr13 30Apr13 | None | | None | | 2.2.4.2.4.12[FS]; 2.2.4.3.3.11[FS]; 2.2.5.3.11[FS-3d] | 2.2.4.3.3.13[FS]; 2.2.4.3.4.12[FS] |
| 2.2.4.3.3.13 | Blend scintillator for block 13 | Planned | 2d | 23Jul13 24Jul13 | 13May13 14May13 | None | | None | | 2.2.4.2.4.13[FS]; 2.2.4.3.3.12[FS]; 2.2.5.3.12[FS-3d] | 2.2.4.3.3.14[FS]; 2.2.4.3.4.13[FS] |
| 2.2.4.3.3.14 | Blend scintillator for block 14 | Planned | 2d | 08Aug13 09Aug13 | 30May13 31May13 | None | | None | | 2.2.4.2.4.14[FS]; 2.2.4.3.3.13[FS]; 2.2.5.3.13[FS-3d] | 2.2.4.3.3.15[FS]; 2.2.4.3.4.14[FS] |
| 2.2.4.3.3.15 | Blend scintillator for block 15 | Planned | 2d | 26Aug13 27Aug13 | 17Jun13 18Jun13 | None | | None | | 2.2.5.3.14[FS-3d]; 2.2.4.2.4.15[FS]; 2.2.4.3.3.14[FS] | 2.2.4.3.3.16[FS]; 2.2.4.3.8[FS]; 2.2.4.3.4.15[FS] |
| 2.2.4.3.3.16 | Blend scintillator for block 16 | Planned | 2d | 12Sep13 13Sep13 | 03Jul13 05Jul13 | None | | None | | 2.2.4.2.4.16[FS]; 2.2.4.3.3.15[FS]; 2.2.5.3.15[FS-3d] | 2.2.4.3.3.17[FS]; 2.2.4.3.4.16[FS] |
| 2.2.4.3.3.17 | Blend scintillator for block 17 | Planned | 2d | 30Sep13 01Oct13 | 22Jul13 23Jul13 | None | | None | | 2.2.5.3.16[FS-3d]; 2.2.4.2.4.17[FS]; 2.2.4.3.3.16[FS] | 2.2.4.3.3.18[FS]; 2.2.4.3.4.17[FS] |
| 2.2.4.3.3.18 | Blend scintillator for block 18 | Planned | 2d | 16Oct13 17Oct13 | 07Aug13 08Aug13 | None | | None | | 2.2.4.2.4.18[FS]; 2.2.5.3.17[FS-3d]; 2.2.4.3.3.17[FS] | 2.2.4.3.3.19[FS]; 2.2.4.3.4.18[FS] |
| 2.2.4.3.3.19 | Blend scintillator for block 19 | Planned | 2d | 01Nov13 04Nov13 | 26Aug13 27Aug13 | None | | None | | 2.2.5.3.18[FS-3d]; 2.2.4.2.4.19[FS]; 2.2.4.3.3.18[FS] | 2.2.4.3.3.20[FS]; 2.2.4.3.4.19[FS] |
| 2.2.4.3.3.20 | Blend scintillator for block 20 | Planned | 2d | 19Nov13 20Nov13 | 13Sep13 16Sep13 | None | | None | | 2.2.5.3.19[FS-3d]; 2.2.4.2.4.20[FS]; 2.2.4.3.3.19[FS] | 2.2.4.3.3.21[FS]; 2.2.4.3.9[FS]; 2.2.4.3.4.20[FS] |
| 2.2.4.3.3.21 | Blend scintillator for block 21 | Planned | 2d | 09Dec13 10Dec13 | 02Oct13 03Oct13 | None | | None | | 2.2.5.3.20[FS-3d]; 2.2.4.3.3.20[FS]; 2.2.4.2.4.21[FS] | 2.2.4.3.3.22[FS]; 2.2.4.3.4.21[FS] |
| 2.2.4.3.3.22 | Blend scintillator for block 22 | Planned | 2d | 27Dec13 30Dec13 | 21Oct13 22Oct13 | None | | None | | 2.2.5.3.21[FS-3d]; 2.2.4.2.4.22[FS]; 2.2.4.3.3.21[FS] | 2.2.4.3.3.23[FS]; 2.2.4.3.4.22[FS] |
| 2.2.4.3.3.23 | Blend scintillator for block 23 | Planned | 2d | 16Jan14 17Jan14 | 07Nov13 08Nov13 | None | | None | | 2.2.5.3.22[FS-3d]; 2.2.4.3.3.22[FS]; 2.2.4.2.4.23[FS] | 2.2.4.3.3.24[FS]; 2.2.4.3.4.23[FS] |
| 2.2.4.3.3.24 | Blend scintillator for block 24 | Planned | 2d | 04Feb14 05Feb14 | 26Nov13 27Nov13 | None | | None | | 2.2.5.3.23[FS-3d]; 2.2.4.2.4.24[FS]; 2.2.4.3.3.23[FS] | 2.2.4.3.3.25[FS]; 2.2.4.3.4.24[FS] |
| 2.2.4.3.3.25 | Blend scintillator for block 25 | Planned | 2d | 20Feb14 21Feb14 | 17Dec13 18Dec13 | None | | None | | 2.2.4.3.3.24[FS]; 2.2.4.2.4.25[FS]; 2.2.5.3.24[FS-3d] | 2.2.4.3.3.26[FS]; 2.2.4.3.10[FS]; 2.2.4.3.4.25[FS] |
| 2.2.4.3.3.26 | Blend scintillator for block 26 | Planned | 2d | 10Mar14 11Mar14 | 09Jan14 10Jan14 | None | | None | | 2.2.4.2.4.26[FS]; 2.2.4.3.3.25[FS]; 2.2.5.3.25[FS-3d] | 2.2.4.3.3.27[FS]; 2.2.4.3.4.26[FS] |
| 2.2.4.3.3.27 | Blend scintillator for block 27 | Planned | 2d | 26Mar14 27Mar14 | 29Jan14 30Jan14 | None | | None | | 2.2.4.2.4.27[FS]; 2.2.4.3.3.26[FS]; 2.2.5.3.26[FS-3d] | 2.2.4.3.3.28[FS]; 2.2.4.3.4.27[FS] |
| 2.2.4.3.3.28 | Blend scintillator for block 28 | Planned | 2d | 11Apr14 14Apr14 | 17Feb14 18Feb14 | None | | None | | 2.2.4.2.4.28[FS]; 2.2.4.3.3.27[FS]; 2.2.5.3.27[FS-3d] | 2.2.4.3.3.29[FS]; 2.2.4.3.11[FS]; 2.2.4.3.4.28[FS] |
| 2.2.4.3.3.29 | Blend scintillator for block 29 (OBSOLETE) | Planned | 1d | 28Apr14 28Apr14 | 05Mar14 05Mar14 | None | | None | | 2.2.4.2.4.29[FS]; 2.2.4.3.3.28[FS]; 2.2.5.3.28[FS-3d] | 2.2.4.3.3.30[FS]; 2.2.4.3.4.29[FS] |
| 2.2.4.3.3.30 | Blend scintillator for block 30 (OBSOLETE) | Planned | 1d | 29Apr14 29Apr14 | 06Mar14 06Mar14 | None | | None | | 2.2.4.2.4.30[FS]; 2.2.5.3.29[FS-3d]; 2.2.4.3.3.29[FS] | 2.2.4.3.3.31[FS]; 2.2.4.3.4.30[FS] |
| 2.2.4.3.3.34 | Blend fluor concentrate and scintillator for ND - batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | 2.2.2.6.5[SS]; 2.2.1.6.6[SS] | 2.2.4.3.4.34[SS] |
| 2.2.4.3.3.35 | Blend fluor concentrate and scintillator for ND - batch 2 (OBSOLETE) | Complete | 14d | 01Nov10 18Nov10 | 01Nov10 18Nov10 | None | | None | | 2.2.2.6.5[SS] | 2.2.4.3.4.35[SS] |
| 2.2.4.3.4 | QC - Production Scintillator Blend | In Progress | 987d | 01Jun10 05May14 | 01Jun10 07Mar14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.4.3.4.1 | QC scintillator for block 1 | Complete | 25d | 05Dec11 05Dec11 | 06Dec11 13Jan12 | None | | None | | 2.2.4.3.3.1[FS]; 2.2.4.3.2[SS] | 2.2.5.3.1[FS]; 2.2.4.2.3.2[FS]; 2.2.4.3.4.2[FS] |
| 2.2.4.3.4.2 | QC scintillator for block 2 | Complete | 20d | 05Dec11 28Feb12 | 20Feb12 16Mar12 | None | | None | | 2.2.4.3.3.2[FS]; 2.2.4.3.4.1[FS] | 2.2.4.3.4.3[FS]; 2.2.5.3.2[FS]; 2.2.4.2.3.3[FS] |
| 2.2.4.3.4.3 | QC scintillator for block 3 | Complete | 1d | 28Feb12 01Feb13 | 31Aug12 31Aug12 | None | | None | | 2.2.4.3.4.2[FS]; 2.2.4.3.3.3[FS] | 2.2.4.3.4.4[FS]; 2.2.5.3.3[FS] |
| 2.2.4.3.4.4 | QC scintillator for block 4 | Complete | 1d | 01Feb13 12Mar13 | 05Oct12 05Oct12 | None | | None | | 2.2.4.3.4.3[FS]; 2.2.4.3.3.4[FS] | 2.2.4.3.4.5[FS]; 2.2.5.3.4[FS] |
| 2.2.4.3.4.5 | QC scintillator for block 5 | Complete | 1d | 12Mar13 27Mar13 | 19Oct12 19Oct12 | None | | None | | 2.2.4.3.4.4[FS]; 2.2.4.3.3.5[FS] | 2.2.4.3.4.6[FS]; 2.2.5.3.5[FS] |
| 2.2.4.3.4.6 | QC scintillator for block 6 | Complete | 1d | 27Mar13 08Apr13 | 02Nov12 02Nov12 | None | | None | | 2.2.4.3.4.5[FS]; 2.2.4.3.3.6[FS] | 2.2.4.3.4.7[FS]; 2.2.5.3.6[FS] |
| 2.2.4.3.4.7 | QC scintillator for block 7 | Complete | 1d | 08Apr13 08Apr13 | 20Feb13 20Feb13 | None | | None | | 2.2.4.3.4.6[FS]; 2.2.4.3.3.7[FS] | 2.2.4.3.4.8[FS]; 2.2.5.3.7[FS] |
| 2.2.4.3.4.8 | QC scintillator for block 8 | Complete | 1d | 08Apr13 02May13 | 06Mar13 06Mar13 | None | | None | | 2.2.4.3.4.7[FS]; 2.2.4.3.3.8[FS] | 2.2.4.3.4.9[FS]; 2.2.5.3.8[FS] |
| 2.2.4.3.4.9 | QC scintillator for block 9 | Complete | 1d | 02May13 20May13 | 20Mar13 20Mar13 | None | | None | | 2.2.4.3.4.8[FS]; 2.2.4.3.3.9[FS] | 2.2.4.3.4.10[FS]; 2.2.5.3.9[FS] |
| 2.2.4.3.4.10 | QC scintillator for block 10 | Complete | 1d | 20May13 07Jun13 | 03Apr13 03Apr13 | None | | None | | 2.2.4.3.4.9[FS]; 2.2.4.3.3.10[FS] | 2.2.4.3.4.11[FS]; 2.2.5.3.10[FS] |
| 2.2.4.3.4.11 | QC scintillator for block 11 | Complete | 1d | 07Jun13 27Jun13 | 17Apr13 17Apr13 | None | | None | | 2.2.4.3.4.10[FS]; 2.2.4.3.3.11[FS] | 2.2.4.3.4.12[FS]; 2.2.5.3.11[FS] |
| 2.2.4.3.4.12 | QC scintillator for block 12 | In Progress | 1d | 27Jun13 08Jul13 | 01May13 01May13 | None | | None | | 2.2.4.3.4.11[FS]; 2.2.4.3.3.12[FS] | 2.2.4.3.4.13[FS]; 2.2.5.3.12[FS] |
| 2.2.4.3.4.13 | QC scintillator for block 13 | Planned | 1d | 25Jul13 25Jul13 | 15May13 15May13 | None | | None | | 2.2.4.3.4.12[FS]; 2.2.4.3.3.13[FS] | 2.2.4.3.4.14[FS]; 2.2.5.3.13[FS] |
| 2.2.4.3.4.14 | QC scintillator for block 14 | Planned | 1d | 12Aug13 12Aug13 | 03Jun13 03Jun13 | None | | None | | 2.2.4.3.4.13[FS]; 2.2.4.3.3.14[FS] | 2.2.4.3.4.15[FS]; 2.2.5.3.14[FS] |
| 2.2.4.3.4.15 | QC scintillator for block 15 | Planned | 1d | 28Aug13 28Aug13 | 19Jun13 19Jun13 | None | | None | | 2.2.4.3.4.14[FS]; 2.2.4.3.3.15[FS] | 2.2.4.3.4.16[FS]; 2.2.5.3.15[FS] |
| 2.2.4.3.4.16 | QC scintillator for block 16 | Planned | 1d | 16Sep13 16Sep13 | 08Jul13 08Jul13 | None | | None | | 2.2.4.3.4.15[FS]; 2.2.4.3.3.16[FS] | 2.2.4.3.4.17[FS]; 2.2.5.3.16[FS] |
| 2.2.4.3.4.17 | QC scintillator for block 17 | Planned | 1d | 02Oct13 02Oct13 | 24Jul13 24Jul13 | None | | None | | 2.2.4.3.4.16[FS]; 2.2.4.3.3.17[FS] | 2.2.4.3.4.18[FS]; 2.2.5.3.17[FS] |
| 2.2.4.3.4.18 | QC scintillator for block 18 | Planned | 1d | 18Oct13 18Oct13 | 09Aug13 09Aug13 | None | | None | | 2.2.4.3.4.17[FS]; 2.2.4.3.3.18[FS] | 2.2.4.3.4.19[FS]; 2.2.5.3.18[FS] |
| 2.2.4.3.4.19 | QC scintillator for block 19 | Planned | 1d | 05Nov13 05Nov13 | 28Aug13 28Aug13 | None | | None | | 2.2.4.3.4.18[FS]; 2.2.4.3.3.19[FS] | 2.2.4.3.4.20[FS]; 2.2.5.3.19[FS] |
| 2.2.4.3.4.20 | QC scintillator for block 20 | Planned | 1d | 21Nov13 21Nov13 | 17Sep13 17Sep13 | None | | None | | 2.2.4.3.4.19[FS]; 2.2.4.3.3.20[FS] | 2.2.4.3.4.21[FS]; 2.2.5.3.20[FS] |
| 2.2.4.3.4.21 | QC scintillator for block 21 | Planned | 1d | 11Dec13 11Dec13 | 04Oct13 04Oct13 | None | | None | | 2.2.4.3.4.20[FS]; 2.2.4.3.3.21[FS] | 2.2.4.3.4.22[FS]; 2.2.5.3.21[FS] |
| 2.2.4.3.4.22 | QC scintillator for block 22 | Planned | 1d | 02Jan14 02Jan14 | 23Oct13 23Oct13 | None | | None | | 2.2.4.3.4.21[FS]; 2.2.4.3.3.22[FS] | 2.2.4.3.4.23[FS]; 2.2.5.3.22[FS] |
| 2.2.4.3.4.23 | QC scintillator for block 23 | Planned | 1d | 21Jan14 21Jan14 | 11Nov13 11Nov13 | None | | None | | 2.2.4.3.4.22[FS]; 2.2.4.3.3.23[FS] | 2.2.4.3.4.24[FS]; 2.2.5.3.23[FS] |
| 2.2.4.3.4.24 | QC scintillator for block 24 | Planned | 1d | 06Feb14 06Feb14 | 02Dec13 02Dec13 | None | | None | | 2.2.4.3.4.23[FS]; 2.2.4.3.3.24[FS] | 2.2.5.3.24[FS]; 2.2.4.3.4.25[FS] |
| 2.2.4.3.4.25 | QC scintillator for block 25 | Planned | 1d | 24Feb14 24Feb14 | 19Dec13 19Dec13 | None | | None | | 2.2.4.3.4.24[FS]; 2.2.4.3.3.25[FS] | 2.2.5.3.25[FS]; 2.2.4.3.4.26[FS] |
| 2.2.4.3.4.26 | QC scintillator for block 26 | Planned | 1d | 12Mar14 12Mar14 | 13Jan14 13Jan14 | None | | None | | 2.2.4.3.4.25[FS]; 2.2.4.3.3.26[FS] | 2.2.5.3.26[FS]; 2.2.4.3.4.27[FS] |
| 2.2.4.3.4.27 | QC scintillator for block 27 | Planned | 1d | 28Mar14 28Mar14 | 31Jan14 31Jan14 | None | | None | | 2.2.4.3.4.26[FS]; 2.2.4.3.3.27[FS] | 2.2.5.3.27[FS]; 2.2.4.3.4.28[FS] |
| 2.2.4.3.4.28 | QC scintillator for block 28 | Planned | 1d | 15Apr14 15Apr14 | 19Feb14 19Feb14 | None | | None | | 2.2.4.3.3.28[FS]; 2.2.4.3.4.27[FS] | 2.2.5.3.28[FS]; 2.2.4.3.4.29[FS] |
| 2.2.4.3.4.29 | QC scintillator for block 29 (OBSOLETE) | Planned | 1d | 29Apr14 29Apr14 | 06Mar14 06Mar14 | None | | None | | 2.2.4.3.3.29[FS]; 2.2.4.3.4.28[FS] | 2.2.4.3.4.30[FS]; 2.2.5.3.29[FS] |
| 2.2.4.3.4.30 | QC scintillator for block 30 (OBSOLETE) | Planned | 1d | 30Apr14 30Apr14 | 07Mar14 07Mar14 | None | | None | | 2.2.4.3.4.29[FS]; 2.2.4.3.3.30[FS] | 2.2.4.3.4.31[FS]; 2.2.5.3.30[FS] |
| 2.2.4.3.4.34 | QC fluor concentrate and scintillator for ND - batch 1 | Complete | 14d | 01Jun10 18Jun10 | 01Jun10 18Jun10 | None | | None | | 2.2.4.3.3.34[SS] | |
| 2.2.4.3.4.35 | QC fluor concentrate and scintillator for ND - batch 2 (OBSOLETE) | Complete | 14d | 01Nov10 18Nov10 | 01Nov10 18Nov10 | None | | None | | 2.2.4.3.3.35[SS] | |
| 2.2.4.3.5 | Scintillator blending begins | Complete | 0 | 05Dec11 05Dec11 | 15Aug11 15Aug11 | None | | None | | 2.2.4.2.1[SS] | 2.2.4.3.6[FS] |
| 2.2.4.3.6 | Scintillator production for superblock 1 completed | Complete | 0 | 27Mar13 27Mar13 | 18Oct12 18Oct12 | None | | None | | 2.2.4.3.3.5[FS]; 2.2.4.3.5[FS] | 2.2.4.3.7[FS] |
| 2.2.4.3.7 | Scintillator production for superblock 2 completed | Complete | 0 | 07Jun13 07Jun13 | 15Jan13 15Jan13 | None | | None | | 2.2.4.3.6[FS]; 2.2.4.3.3.10[FS] | 2.2.4.3.8[FS] |
| 2.2.4.3.8 | Scintillator production for superblock 3 completed | Planned | 0 | 27Aug13 27Aug13 | 17Apr13 17Apr13 | None | | None | | 2.2.4.3.3.15[FS]; 2.2.4.3.7[FS] | 2.2.4.3.9[FS] |
| 2.2.4.3.9 | Scintillator production for superblock 4 completed | Planned | 0 | 20Nov13 20Nov13 | 19Jul13 19Jul13 | None | | None | | 2.2.4.3.8[FS]; 2.2.4.3.3.20[FS] | 2.2.4.3.10[FS] |
| 2.2.4.3.10 | Scintillator production for superblock 5 completed | Planned | 0 | 21Feb14 21Feb14 | 21Oct13 21Oct13 | None | | None | | 2.2.4.3.3.25[FS]; 2.2.4.3.9[FS] | 2.2.4.3.11[FS] |
| 2.2.4.3.11 | Scintillator production for superblock 6 completed | Planned | 0 | 14Apr14 14Apr14 | 27Jan14 27Jan14 | None | | None | | 2.2.1.5.4.18[FS]; 2.2.2.5.4.10[FS]; 2.2.4.3.10[FS]; 2.2.4.3.3.28[FS] | 2.2.4.3.12[FS]; 2.2.4.3.80[FS] |
| 2.2.4.3.12 | Scintillator production for superblock 7 completed | Planned | 0 | 02May14 02May14 | 07Jan14 07Jan14 | None | | None | | 2.2.4.3.3.33[FS]; 2.2.4.3.11[FS] | 2.2.4.3.90[FS] |
| 2.2.4.3.80 | Scintillator production for 14 kt completed | Planned | 0 | 14Apr14 14Apr14 | 08Nov13 08Nov13 | None | | None | | 2.2.4.3.11[FS] | 2.2.4.3.90[FS] |
| 2.2.4.3.90 | Scintillator production for 15 kt completed | Planned | 0 | 02May14 02May14 | 07Jan14 07Jan14 | None | | None | | 2.2.4.3.3.33[FS]; 2.2.4.3.12[FS]; 2.2.4.3.80[FS] | |
| 2.2.4.4 | Production Blending Development | Complete | 1027d | 01Oct07 31Oct11 | 01Oct07 31Oct11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.4.4.1 | Production Blending Development - FY08 (retired) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 26Sep08 | None | | None | | | 2.2.4.4.2[FS] |
| 2.2.4.4.2 | Production Blending Development - FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 1.2.4.9[FS]; 2.2.4.4.1[FS]; 2.10.9.7[FS]; 1.2.4.7[FS] | 2.2.4.4.3[FS] |
| 2.2.4.4.3 | Production Blending Development - FY10 | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.2.4.4.2[FS] | 2.2.4.4.4[FS]; 2.2.4.4.5[FS] |
| 2.2.4.4.4 | Production Blending Development - FY11 | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.2.4.4.3[FS] | |
| 2.2.4.4.5 | Production Blending Development - FY11 - Supplemental | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | 2.2.4.4.3[FS] | |
| 2.2.4.4.6 | Blending vendor infrastructure improvements | Complete | 21d | 03Oct11 31Oct11 | 03Oct11 31Oct11 | None | | None | | | |
| 2.2.5 | Transport | In Progress | 975d | 21Jun10 07May14 | 21Jun10 21Mar14 | None | | None | | | |
| 2.2.5.1 | Storage (ND Scintillator) | Complete | 72d | 21Jun10 02May11 | 21Jun10 30Sep10 | None | | None | | 1.8.5.7.14.10[FF]; 2.2.1.5.10.1.2[FS] | |
| 2.2.5.2 | Near detector scintillator transport to FNAL | Complete | 47d | 11Oct10 02May11 | 27Jul10 30Sep10 | None | | None | | 1.8.5.7.14.10[FF]; 1.8.5.7.14.2[SS] | |
| 2.2.5.3 | Far Detector Scintillator Transport | In Progress | 376d | 05Nov12 07May14 | 30Jul12 21Mar14 | None | | None | | | |
| 2.2.5.3.1 | Deliver scintillator for block 1 | Complete | 18d | 05Nov12 31Jan13 | 30Jul12 22Aug12 | None | | None | | 2.9.4.3.4[FS-1d]; 2.2.4.3.4.1[FS] | 2.9.4.4.48[SS-5d]; 2.9.4.4.2[SS+1d]; 2.2.5.3.2[FS]; 2.2.4.3.3.3[FS-3d]; 2.9.4.4.60.1[SS+1d]; 2.2.4.2.3.3[FS] |
| 2.2.5.3.2 | Deliver scintillator for block 2 | Complete | 12d | 31Jan13 15Feb13 | 29Nov12 14Dec12 | None | | None | | 2.2.4.3.4.2[FS]; 2.9.4.3.5[FS-1d]; 2.2.5.3.1[FS] | 2.2.5.3.3[FS]; 2.9.4.4.60.2[SS+1d]; 2.9.4.4.3[SS+1d] |
| 2.2.5.3.3 | Deliver scintillator for block 3 | Complete | 12d | 15Feb13 04Mar13 | 17Dec12 07Jan13 | None | | None | | 2.2.5.3.2[FS]; 2.9.4.3.6[FS-1d]; 2.2.4.3.4.3[FS] | 2.2.5.3.4[FS]; 2.9.4.4.4[SS+1d]; 2.2.4.3.3.4[FS-3d]; 2.9.4.4.60.3[SS] |
| 2.2.5.3.4 | Deliver scintillator for block 4 | Complete | 10d | 04Mar13 19Mar13 | 08Jan13 22Jan13 | None | | None | | 2.2.5.3.3[FS]; 2.2.4.3.4.4[FS]; 2.9.4.3.7[FS-1d] | 2.9.4.4.5[SS+1d]; 2.2.4.3.3.5[FS-3d]; 2.2.5.3.5[FS]; 2.9.4.4.60.4[SS+1d] |
| 2.2.5.3.5 | Deliver scintillator for block 5 | Complete | 10d | 19Mar13 08Apr13 | 23Jan13 05Feb13 | None | | None | | 2.9.4.3.9[FS-1d]; 2.2.5.3.4[FS]; 2.2.4.3.4.5[FS] | 2.9.4.4.6[SS+1d]; 2.2.4.3.3.6[FS-3d]; 2.2.5.3.6[FS]; 2.9.4.4.60.5[SS+1d]; 2.2.5.3.39[FS] |
| 2.2.5.3.6 | Deliver scintillator for block 6 | Complete | 10d | 08Apr13 22Apr13 | 06Feb13 19Feb13 | None | | None | | 2.2.4.3.4.6[FS]; 2.9.4.3.10[FS-1d]; 2.2.5.3.5[FS]; 2.2.5.3.39[FS] | 2.9.4.4.8[SS+1d]; 2.2.4.3.3.7[FS-3d]; 2.2.5.3.7[FS]; 2.9.4.4.60.6[SS+1d] |
| 2.2.5.3.7 | Deliver scintillator for block 7 | Complete | 10d | 22Apr13 08May13 | 20Feb13 05Mar13 | None | | None | | 2.9.4.3.11[FS-1d]; 2.2.4.3.4.7[FS]; 2.2.5.3.6[FS] | 2.2.4.3.3.8[FS-3d]; 2.9.4.4.9[SS+1d]; 2.2.5.3.8[FS]; 2.9.4.4.60.7[SS+1d] |
| 2.2.5.3.8 | Deliver scintillator for block 8 | Complete | 10d | 08May13 22May13 | 06Mar13 19Mar13 | None | | None | | 2.9.4.3.12[FS-1d]; 2.2.4.3.4.8[FS]; 2.2.5.3.7[FS] | 2.9.4.4.60.8[SS+1d]; 2.9.4.4.10[SS+1d]; 2.2.4.3.3.9[FS-3d]; 2.2.5.3.9[FS] |
| 2.2.5.3.9 | Deliver scintillator for block 9 | Complete | 10d | 22May13 07Jun13 | 20Mar13 02Apr13 | None | | None | | 2.9.4.3.13[FS-1d]; 2.2.5.3.8[FS]; 2.2.4.3.4.9[FS] | 2.2.5.3.10[FS]; 2.2.4.3.3.10[FS-3d]; 2.9.4.4.11[SS+1d]; 2.9.4.4.60.9[SS+1d] |
| 2.2.5.3.10 | Deliver scintillator for block 10 | Complete | 10d | 07Jun13 21Jun13 | 03Apr13 16Apr13 | None | | None | | 2.2.5.3.9[FS]; 2.2.4.3.4.10[FS]; 2.9.4.3.15[FS-1d] | 2.9.4.4.60.10[SS+1d]; 2.2.5.3.11[FS]; 2.9.4.4.12[SS+1d]; 2.2.4.3.3.11[FS-3d] |
| 2.2.5.3.11 | Deliver scintillator for block 11 | In Progress | 10d | 21Jun13 09Jul13 | 17Apr13 30Apr13 | None | | None | | 2.2.5.3.10[FS]; 2.9.4.3.16[FS-1d]; 2.2.4.3.4.11[FS] | 2.9.4.4.14[SS+1d]; 2.2.4.3.3.12[FS-3d]; 2.2.5.3.12[FS]; 2.9.4.4.60.11[SS+1d] |
| 2.2.5.3.12 | Deliver scintillator for block 12 | Planned | 10d | 10Jul13 23Jul13 | 01May13 14May13 | None | | None | | 2.9.4.3.17[FS-1d]; 2.2.4.3.4.12[FS]; 2.2.5.3.11[FS] | 2.2.4.3.3.13[FS-3d]; 2.9.4.4.15[SS+1d]; 2.2.5.3.13[FS]; 2.9.4.4.60.12[SS+1d] |
| 2.2.5.3.13 | Deliver scintillator for block 13 | Planned | 11d | 26Jul13 09Aug13 | 17May13 31May13 | None | | None | | 2.9.4.3.18[FS-1d]; 2.2.4.3.4.13[FS]; 2.2.5.3.12[FS] | 2.2.5.3.14[FS]; 2.2.4.3.3.14[FS-3d]; 2.9.4.4.16[SS+1d]; 2.9.4.4.60.13[SS+1d] |
| 2.2.5.3.14 | Deliver scintillator for block 14 | Planned | 11d | 13Aug13 27Aug13 | 10Jun13 21Jun13 | None | | None | | 2.2.5.3.13[FS]; 2.2.4.3.4.14[FS]; 2.9.4.3.19[FS-1d] | 2.9.4.4.60.14[SS+1d]; 2.2.5.3.15[FS]; 2.2.4.3.3.15[FS-3d]; 2.9.4.4.17[SS+1d] |
| 2.2.5.3.15 | Deliver scintillator for block 15 | Planned | 11d | 29Aug13 13Sep13 | 27Jun13 11Jul13 | None | | None | | 2.2.5.3.14[FS]; 2.9.4.3.21[FS-1d]; 2.2.4.3.4.15[FS] | 2.9.4.4.60.15[SS+1d]; 2.9.4.4.18[SS+1d]; 2.2.4.3.3.16[FS-3d]; 2.2.5.3.16[FS] |
| 2.2.5.3.16 | Deliver scintillator for block 16 | Planned | 11d | 17Sep13 01Oct13 | 17Jul13 01Aug13 | None | | None | | 2.9.4.3.22[FS-1d]; 2.2.4.3.4.16[FS]; 2.2.5.3.15[FS] | 2.9.4.4.60.16[SS+1d]; 2.2.4.3.3.17[FS-3d]; 2.9.4.4.20[SS+1d]; 2.2.5.3.17[FS] |
| 2.2.5.3.17 | Deliver scintillator for block 17 | Planned | 11d | 03Oct13 17Oct13 | 05Aug13 20Aug13 | None | | None | | 2.9.4.3.23[FS-1d]; 2.2.4.3.4.17[FS]; 2.2.5.3.16[FS] | 2.2.4.3.3.18[FS-3d]; 2.9.4.4.21[SS+1d]; 2.9.4.4.60.17[SS+1d]; 2.2.5.3.18[FS] |
| 2.2.5.3.18 | Deliver scintillator for block 18 | Planned | 11d | 21Oct13 04Nov13 | 22Aug13 09Sep13 | None | | None | | 2.9.4.3.24[FS-1d]; 2.2.4.3.4.18[FS]; 2.2.5.3.17[FS] | 2.2.4.3.3.19[FS-3d]; 2.9.4.4.22[SS+1d]; 2.9.4.4.60.18[SS+1d]; 2.2.5.3.19[FS] |
| 2.2.5.3.19 | Deliver scintillator for block 19 | Planned | 11d | 06Nov13 20Nov13 | 11Sep13 26Sep13 | None | | None | | 2.9.4.3.25[FS-1d]; 2.2.4.3.4.19[FS]; 2.2.5.3.18[FS] | 2.2.4.3.3.20[FS-3d]; 2.9.4.4.23[SS+1d]; 2.9.4.4.60.19[SS+1d]; 2.2.5.3.20[FS] |
| 2.2.5.3.20 | Deliver scintillator for block 20 | Planned | 11d | 22Nov13 10Dec13 | 30Sep13 15Oct13 | None | | None | | 2.9.4.3.27[FS-1d]; 2.2.4.3.4.20[FS]; 2.2.5.3.19[FS] | 2.9.4.4.24[SS+1d]; 2.2.4.3.3.21[FS-3d]; 2.9.4.4.60.20[SS+1d]; 2.2.5.3.21[FS] |
| 2.2.5.3.21 | Deliver scintillator for block 21 | Planned | 11d | 12Dec13 30Dec13 | 17Oct13 01Nov13 | None | | None | | 2.9.4.3.28[FS-1d]; 2.2.4.3.4.21[FS]; 2.2.5.3.20[FS] | 2.2.4.3.3.22[FS-3d]; 2.9.4.4.26[SS+1d]; 2.9.4.4.60.21[SS+1d]; 2.2.5.3.22[FS] |
| 2.2.5.3.22 | Deliver scintillator for block 22 | Planned | 11d | 03Jan14 17Jan14 | 05Nov13 20Nov13 | None | | None | | 2.9.4.3.29[FS-1d]; 2.2.4.3.4.22[FS]; 2.2.5.3.21[FS] | 2.2.4.3.3.23[FS-3d]; 2.9.4.4.27[SS+1d]; 2.9.4.4.60.22[SS+1d]; 2.2.5.3.23[FS] |
| 2.2.5.3.23 | Deliver scintillator for block 23 | Planned | 11d | 22Jan14 05Feb14 | 22Nov13 11Dec13 | None | | None | | 2.9.4.3.30[FS-1d]; 2.2.4.3.4.23[FS]; 2.2.5.3.22[FS] | 2.2.4.3.3.24[FS-3d]; 2.9.4.4.28[SS+1d]; 2.9.4.4.60.23[SS+1d]; 2.2.5.3.24[FS] |
| 2.2.5.3.24 | Deliver scintillator for block 24 | Planned | 11d | 07Feb14 21Feb14 | 13Dec13 03Jan14 | None | | None | | 2.9.4.3.31[FS-1d]; 2.2.4.3.4.24[FS]; 2.2.5.3.23[FS] | 2.9.4.4.29[SS+1d]; 2.2.4.3.3.25[FS-3d]; 2.9.4.4.60.24[SS+1d]; 2.2.5.3.25[FS] |
| 2.2.5.3.25 | Deliver scintillator for block 25 | Planned | 11d | 25Feb14 11Mar14 | 07Jan14 23Jan14 | None | | None | | 2.9.4.3.33[FS-1d]; 2.2.4.3.4.25[FS]; 2.2.5.3.24[FS] | 2.9.4.4.30[SS+1d]; 2.2.4.3.3.26[FS-3d]; 2.9.4.4.60.25[SS+1d]; 2.2.5.3.26[FS] |
| 2.2.5.3.26 | Deliver scintillator for block 26 | Planned | 11d | 13Mar14 27Mar14 | 27Jan14 11Feb14 | None | | None | | 2.9.4.3.34[FS-1d]; 2.2.4.3.4.26[FS]; 2.2.5.3.25[FS] | 2.9.4.4.32[SS+1d]; 2.2.4.3.3.27[FS-3d]; 2.9.4.4.60.26[SS+1d]; 2.2.5.3.27[FS] |
| 2.2.5.3.27 | Deliver scintillator for block 27 | Planned | 11d | 31Mar14 14Apr14 | 14Feb14 03Mar14 | None | | None | | 2.9.4.3.35[FS-1d]; 2.2.4.3.4.27[FS]; 2.2.5.3.26[FS] | 2.9.4.4.33[SS+1d]; 2.2.4.3.3.28[FS-3d]; 2.9.4.4.60.27[SS+1d]; 2.2.5.3.28[FS] |
| 2.2.5.3.28 | Deliver scintillator for block 28 | Planned | 11d | 16Apr14 30Apr14 | 04Mar14 19Mar14 | None | | None | | 2.9.2.2.22.8[FS]; 2.9.4.3.36[FS]; 2.2.4.3.4.28[FS]; 2.2.5.3.27[FS] | 2.2.5.3.40[FS]; 2.2.4.3.3.29[FS-3d]; 2.9.4.4.34[SS+1d]; 2.9.4.4.60.28[SS+1d]; 2.2.5.3.29[FS] |
| 2.2.5.3.29 | Deliver scintillator for block 29 (OBSOLETE) | Planned | 1d | 01May14 01May14 | 20Mar14 20Mar14 | None | | None | | 2.9.2.2.22.8[FS]; 2.9.4.3.37[FS]; 2.2.4.3.4.29[FS]; 2.2.5.3.28[FS] | 2.2.4.3.3.30[FS-3d]; 2.9.4.4.35[SS+1d]; 2.9.4.4.60.29[SS+1d]; 2.2.5.3.30[FS] |
| 2.2.5.3.30 | Deliver scintillator for block 30 (OBSOLETE) | Planned | 1d | 02May14 02May14 | 21Mar14 21Mar14 | None | | None | | 2.2.4.3.4.30[FS]; 2.9.2.2.22.8[FS]; 2.2.5.3.29[FS] | 2.2.5.3.31[FS]; 2.9.4.4.60.30[SS+1d]; 2.2.4.3.3.31[FS-3d]; 2.9.4.4.36[SS+1d] |
| 2.2.5.3.39 | Scintillator delivery for first superblock completed | Complete | 0 | 01May13 01May13 | 05Feb13 05Feb13 | None | | None | | 2.2.5.3.5[FS] | 2.2.5.3.40[FS]; 2.2.5.3.6[FS] |
| 2.2.5.3.40 | Scintillator delivery for all blocks completed - 14KT | Planned | 0 | 30Apr14 30Apr14 | 21Mar14 21Mar14 | None | | None | | 2.2.5.3.28[FS]; 2.2.5.3.39[FS] | 2.2.5.3.41[FS] |
| 2.2.5.3.41 | Scintillator delivery for all blocks completed - 15KT | Planned | 0 | 07May14 07May14 | 14Jan14 14Jan14 | None | | None | | 2.2.5.3.33[FS]; 2.2.5.3.40[FS] | |
| 2.2.6 | Management - Construction Phase | In Progress | 1506d | 01Oct07 27Sep13 | 01Oct07 27Sep13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.2.6.1 | FY08 (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.2.6.1.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.2.6.2.1[FS] |
| 2.2.6.1.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.2.6.2.2[FS] |
| 2.2.6.1.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.2.6.2.3[FS] |
| 2.2.6.1.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.2.6.2.4[FS] |
| 2.2.6.2 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.2.6.2.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.2.6.1.1[FS]; 2.10.9.5[FS] | 2.2.6.3.1[FS]; 2.2.6.2.3[SS]; 2.2.6.2.2[SS]; 2.2.6.2.4[SS] |
| 2.2.6.2.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.2.6.1.2[FS]; 2.2.6.2.1[SS] | 2.2.6.3.2[FS] |
| 2.2.6.2.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.2.6.1.3[FS]; 2.2.6.2.1[SS] | 2.2.6.3.3[FS] |
| 2.2.6.2.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.2.6.1.4[FS]; 2.2.6.2.1[SS] | 2.2.6.3.4[FS] |
| 2.2.6.3 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.2.6.3.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.2.6.2.1[FS] | 2.2.6.4.1[FS]; 2.2.6.4.5[FS] |
| 2.2.6.3.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.2.6.2.2[FS] | 2.2.6.4.2[FS]; 2.2.6.4.6[FS] |
| 2.2.6.3.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.2.6.2.3[FS] | 2.2.6.4.3[FS] |
| 2.2.6.3.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.2.6.2.4[FS] | 2.2.6.4.4[FS] |
| 2.2.6.4 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.2.6.4.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.2.6.3.1[FS] | 2.2.6.5.1[FS] |
| 2.2.6.4.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.2.6.3.2[FS] | 2.2.6.5.2[FS] |
| 2.2.6.4.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.2.6.3.3[FS] | 2.2.6.5.3[FS] |
| 2.2.6.4.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.2.6.3.4[FS] | 2.2.6.5.4[FS] |
| 2.2.6.4.5 | Labor - supplemental | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | 2.2.6.3.1[FS] | 2.2.6.5.1[FS] |
| 2.2.6.4.6 | Travel - supplemental | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | 2.2.6.3.2[FS] | 2.2.6.5.2[FS] |
| 2.2.6.5 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | Not Later Than | 30Sep12 | | |
| 2.2.6.5.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.2.6.4.1[FS]; 2.2.6.4.5[FS] | 2.2.6.6.1[FS] |
| 2.2.6.5.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.2.6.4.2[FS]; 2.2.6.4.6[FS] | 2.2.6.5.5[SS]; 2.2.6.6.2[FS] |
| 2.2.6.5.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.2.6.4.3[FS] | 2.2.6.6.3[FS] |
| 2.2.6.5.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.2.6.4.4[FS] | 2.2.6.6.4[FS] |
| 2.2.6.5.5 | Travel - supplemental | Complete | 190d | 03Jan12 28Sep12 | 03Jan12 28Sep12 | None | | None | | 2.2.6.5.2[SS] | 2.2.6.6.2[FS] |
| 2.2.6.6 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | Not Later Than | 30Sep13 | | |
| 2.2.6.6.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.2.6.5.1[FS] | |
| 2.2.6.6.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.2.6.5.5[FS]; 2.2.6.5.2[FS] | |
| 2.2.6.6.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.2.6.5.3[FS] | |
| 2.2.6.6.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.2.6.5.4[FS] | |
| 2.3 | Wave-Length-Shifting Fiber | In Progress | 1572d | 01Oct07 07Jan14 | 01Oct07 17Apr13 | None | | None | | | |
| 2.3.1 | Procurement | Complete | 144d | 01May09 23Nov09 | 28Sep09 02Mar10 | None | | None | | | |
| 2.3.1.1 | Negotiate final price and specifications | Complete | 20d | 01May09 16Jul09 | 28Sep09 23Oct09 | None | | None | | 1.3.6.7[FF]; 2.10.9.5[FS] | 2.3.1.4[FS]; 2.3.1.2[FS] |
| 2.3.1.2 | Prepare WLS fiber PO | Complete | 20d | 01May09 16Jul09 | 28Sep09 23Oct09 | None | | None | | 2.3.1.1[FS] | 2.3.1.5[FS]; 2.3.1.3[FS] |
| 2.3.1.3 | Submit duty waiver | Complete | 1d | 03Aug09 06Aug09 | 30Oct09 30Oct09 | None | | None | | 2.3.1.2[FS] | |
| 2.3.1.4 | Conduct production readiness review | Complete | 5d | 01Jul09 16Jul09 | 26Oct09 30Oct09 | None | | None | | 2.3.1.1[FS]; 1.3.6.3[FS] | 2.3.1.5[FS] |
| 2.3.1.5 | WLS fiber PO issued | Complete | 0 | 01Sep09 01Sep09 | 02Nov09 02Nov09 | None | | None | | 2.10.8.1[SS]; 2.3.1.2[FS]; 2.3.1.4[FS] | 2.3.2.1.1[FS+101d] |
| 2.3.1.6 | Design and Construct Kuraray Fiber QC apparatus | Complete | 80d | 01May09 23Nov09 | 02Nov09 02Mar10 | None | | None | | 2.10.9.5[FS] | 2.3.2.1.2[FS] |
| 2.3.2 | Production | In Progress | 1028d | 01Dec09 07Jan14 | 08Dec09 17Apr13 | None | | None | | | |
| 2.3.2.1 | WLS Fiber - Vendor Production and Delivery | Complete | 747d | 12Jan10 28Dec12 | 03Feb10 22Mar13 | None | | None | | | |
| 2.3.2.1.1 | FY10 WLS fiber production and delivery - initial production | Complete | 62d | 03Feb10 25Mar10 | 03Feb10 27Apr10 | None | | None | | 2.3.2.14[FS]; 2.3.1.5[FS+101d] | 2.3.2.1.7[SS+22d]; 2.3.2.1.2[FS]; 2.3.2.1.6[SS]; 2.3.2.1.15.1[FS]; 2.3.2.12.1[SS] |
| 2.3.2.1.2 | FY10-FY12 WLS fiber production and delivery - full rate (obsolete) | Complete | 1d | 25Mar10 25Mar10 | 28Apr10 28Apr10 | None | | None | | 2.3.1.6[FS]; 2.3.2.1.1[FS] | 2.3.2.1.13[FS]; 2.3.2.12.2[SS] |
| 2.3.2.1.3 | FY11 WLS fiber production and delivery (obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | | 2.3.2.1.4[FS]; 2.3.2.12.3[SS] |
| 2.3.2.1.4 | FY12 WLS fiber production and delivery (obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | 2.3.2.1.3[FS] | 2.3.2.1.5[FS]; 2.3.2.12.4[SS]; 2.10.9.13[SS+96d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.3.2.1.5 | FY13 WLS fiber production and delivery (obsolete) | Complete | 1d | 01Oct12 01Oct12 | 01Oct12 01Oct12 | None | | None | | 2.3.2.1.4[FS] | 2.3.2.12.5[SS] |
| 2.3.2.1.6 | WLS fiber production begins | Complete | 0 | 12Jan10 12Jan10 | 09Feb10 09Feb10 | None | | None | | 2.3.2.1.1[SS] | 2.3.2.1.7[FS] |
| 2.3.2.1.7 | WLS fiber production 3% complete | Complete | 0 | 05Mar10 05Mar10 | 04Mar10 04Mar10 | None | | None | | 2.3.2.1.1[SS+22d]; 2.3.2.1.6[FS] | 2.3.2.1.8[FS] |
| 2.3.2.1.8 | WLS fiber production 15% complete | Complete | 0 | 01Nov10 01Nov10 | 16Aug10 16Aug10 | None | | None | | 2.3.2.1.7[FS]; 2.3.2.1.15.3[FS] | 2.3.2.1.9[FS] |
| 2.3.2.1.9 | WLS fiber production 50% complete | Complete | 0 | 02Jun11 02Jun11 | 18Jul11 18Jul11 | None | | None | | 2.3.2.1.8[FS]; 2.3.2.1.15.14[FS] | 2.3.2.1.12[FS] |
| 2.3.2.1.12 | WLS fiber for 14kt detector produced and delivered | Complete | 0 | 07Dec12 07Dec12 | 17Dec12 17Dec12 | None | | None | | 2.3.2.1.15.31[FS]; 2.3.2.1.9[FS] | 2.3.2.1.14[FS] |
| 2.3.2.1.14 | WLS fiber for 15 kt detector produced and delivered (OBSOLETE) | Complete | 0 | 28Dec12 28Dec12 | 22Mar13 22Mar13 | None | | None | | 2.3.2.1.13[FS]; 2.3.2.1.12[FS] | |
| 2.3.2.1.15 | WLS Fiber Production - Option A | Complete | 661d | 26Apr10 07Dec12 | 17May10 02Jan13 | None | | None | | | |
| 2.3.2.1.15.1 | WLS Fiber Production - Delivery A-1 | Complete | 1d | 26Apr10 26Apr10 | 17May10 17May10 | None | | None | | 2.3.2.1.1[FS] | 2.3.2.12.7.1[FS]; 2.3.2.1.15.2[FS+56d] |
| 2.3.2.1.15.2 | WLS Fiber Production - Delivery A-2 | Complete | 1d | 09Jul10 09Jul10 | 16Jul10 16Jul10 | None | | None | | 2.3.2.1.15.1[FS+56d] | 2.3.2.1.15.3[FS+20d]; 2.3.2.12.7.2[FS] |
| 2.3.2.1.15.3 | WLS Fiber Production - Delivery A-3 | Complete | 1d | 09Aug10 09Aug10 | 16Aug10 16Aug10 | None | | None | | 2.3.2.1.15.2[FS+20d] | 2.3.2.1.15.4[FS+20d]; 2.3.2.1.8[FS]; 2.3.2.12.7.3[FS] |
| 2.3.2.1.15.4 | WLS Fiber Production - Delivery A-4 | Complete | 1d | 07Sep10 07Sep10 | 15Sep10 15Sep10 | None | | None | | 2.3.2.1.15.3[FS+20d] | 2.3.2.1.15.5[FS+20d]; 2.3.2.12.7.4[FS] |
| 2.3.2.1.15.5 | WLS Fiber Production - Delivery A-5 | Complete | 1d | 15Sep10 15Sep10 | 14Oct10 14Oct10 | None | | None | | 2.3.2.1.15.4[FS+20d] | 2.3.2.1.15.6[FS+20d]; 2.3.2.12.7.5[FS] |
| 2.3.2.1.15.6 | WLS Fiber Production - Delivery A-6 | Complete | 1d | 19Oct10 19Oct10 | 12Nov10 12Nov10 | None | | None | | 2.3.2.1.15.5[FS+20d] | 2.3.2.1.15.7[FS+20d]; 2.3.2.12.7.6[FS] |
| 2.3.2.1.15.7 | WLS Fiber Production - Delivery A-7 | Complete | 1d | 01Nov10 01Nov10 | 15Dec10 15Dec10 | None | | None | | 2.3.2.1.15.6[FS+20d] | 2.3.2.1.15.8[FS+20d]; 2.3.2.12.7.7[FS] |
| 2.3.2.1.15.8 | WLS Fiber Production - Delivery A-8 | Complete | 1d | 03Dec10 03Dec10 | 19Jan11 19Jan11 | None | | None | | 2.3.2.1.15.7[FS+20d] | 2.3.2.1.15.9[FS+20d]; 2.3.2.12.7.8[FS] |
| 2.3.2.1.15.9 | WLS Fiber Production - Delivery A-9 | Complete | 1d | 03Jan11 03Jan11 | 17Feb11 17Feb11 | None | | None | | 2.3.2.1.15.8[FS+20d] | 2.3.2.1.15.10[FS+20d]; 2.3.2.12.7.9[FS] |
| 2.3.2.1.15.10 | WLS Fiber Production - Delivery A-10 | Complete | 1d | 01Feb11 01Feb11 | 18Mar11 18Mar11 | None | | None | | 2.3.2.1.15.9[FS+20d] | 2.3.2.1.15.11[FS+20d]; 2.3.2.12.7.10[FS] |
| 2.3.2.1.15.11 | WLS Fiber Production - Delivery A-11 | Complete | 1d | 02Mar11 02Mar11 | 18Apr11 18Apr11 | None | | None | | 2.3.2.1.15.10[FS+20d] | 2.3.2.1.15.12[FS+20d]; 2.3.2.12.7.11[FS] |
| 2.3.2.1.15.12 | WLS Fiber Production - Delivery A-12 | Complete | 1d | 04Apr11 04Apr11 | 17May11 17May11 | None | | None | | 2.3.2.1.15.11[FS+20d] | 2.3.2.1.15.13[FS+20d]; 2.3.2.12.7.12[FS] |
| 2.3.2.1.15.13 | WLS Fiber Production - Delivery A-13 | Complete | 1d | 02May11 02May11 | 16Jun11 16Jun11 | None | | None | | 2.3.2.1.15.12[FS+20d] | 2.3.2.1.15.14[FS+20d]; 2.3.2.12.7.13[FS] |
| 2.3.2.1.15.14 | WLS Fiber Production - Delivery A-14 | Complete | 1d | 02Jun11 02Jun11 | 18Jul11 18Jul11 | None | | None | | 2.3.2.1.15.13[FS+20d] | 2.3.2.1.15.15[FS+20d]; 2.3.2.1.9[FS]; 2.3.2.12.7.14[FS] |
| 2.3.2.1.15.15 | WLS Fiber Production - Delivery A-15 | Complete | 1d | 27Jun11 27Jun11 | 16Aug11 16Aug11 | None | | None | | 2.3.2.1.15.14[FS+20d] | 2.3.2.1.15.16[FS+20d]; 2.3.2.12.7.15[FS] |
| 2.3.2.1.15.16 | WLS Fiber Production - Delivery A-16 | Complete | 1d | 01Aug11 01Aug11 | 15Sep11 15Sep11 | None | | None | | 2.3.2.1.15.15[FS+20d] | 2.3.2.1.15.17[FS+20d]; 2.3.2.12.7.16[FS] |
| 2.3.2.1.15.17 | WLS Fiber Production - Delivery A-17 | Complete | 1d | 26Aug11 26Aug11 | 14Oct11 14Oct11 | None | | None | | 2.3.2.1.15.16[FS+20d] | 2.3.2.1.15.18[FS+20d]; 2.3.2.12.7.17[FS] |
| 2.3.2.1.15.18 | WLS Fiber Production - Delivery A-18 | Complete | 1d | 30Sep11 30Sep11 | 14Nov11 14Nov11 | None | | None | | 2.3.2.1.15.17[FS+20d] | 2.3.2.1.15.19[FS+20d]; 2.3.2.12.7.18[FS] |
| 2.3.2.1.15.19 | WLS Fiber Production - Delivery A-19 | Complete | 1d | 31Oct11 31Oct11 | 15Dec11 15Dec11 | None | | None | | 2.3.2.1.15.18[FS+20d] | 2.3.2.1.15.20[FS+20d]; 2.3.2.12.7.19[FS] |
| 2.3.2.1.15.20 | WLS Fiber Production - Delivery A-20 | Complete | 1d | 28Nov11 28Nov11 | 20Jan12 20Jan12 | None | | None | | 2.3.2.1.15.19[FS+20d] | 2.3.2.1.15.21[FS+20d]; 2.3.2.12.7.20[FS] |
| 2.3.2.1.15.21 | WLS Fiber Production - Delivery A-21 | Complete | 1d | 10Jan12 10Jan12 | 20Feb12 20Feb12 | None | | None | | 2.3.2.1.15.20[FS+20d] | 2.3.2.1.15.22[FS+20d]; 2.3.2.12.7.21[FS] |
| 2.3.2.1.15.22 | WLS Fiber Production - Delivery A-22 | Complete | 1d | 02Feb12 02Feb12 | 20Mar12 20Mar12 | None | | None | | 2.3.2.1.15.21[FS+20d] | 2.3.2.1.15.23[FS+20d]; 2.3.2.12.7.22[FS] |
| 2.3.2.1.15.23 | WLS Fiber Production - Delivery A-23 | Complete | 1d | 05Mar12 05Mar12 | 18Apr12 18Apr12 | None | | None | | 2.3.2.1.15.22[FS+20d] | 2.3.2.1.15.24[FS+20d]; 2.3.2.12.7.23[FS] |
| 2.3.2.1.15.24 | WLS Fiber Production - Delivery A-24 | Complete | 1d | 28Mar12 28Mar12 | 17May12 17May12 | None | | None | | 2.3.2.1.15.23[FS+20d] | 2.3.2.1.15.25[FS+20d]; 2.3.2.12.7.24[FS] |
| 2.3.2.1.15.25 | WLS Fiber Production - Delivery A-25 | Complete | 1d | 27Apr12 27Apr12 | 18Jun12 18Jun12 | None | | None | | 2.3.2.1.15.24[FS+20d] | 2.3.2.1.15.26[FS+20d]; 2.3.2.12.7.25[FS] |
| 2.3.2.1.15.26 | WLS Fiber Production - Delivery A-26 | Complete | 1d | 29May12 29May12 | 18Jul12 18Jul12 | None | | None | | 2.3.2.1.15.25[FS+20d] | 2.3.2.1.15.27[FS+20d]; 2.3.2.12.7.26[FS] |
| 2.3.2.1.15.27 | WLS Fiber Production - Delivery A-27 | Complete | 1d | 29Jun12 29Jun12 | 16Aug12 16Aug12 | None | | None | | 2.3.2.1.15.26[FS+20d] | 2.3.2.1.15.28[FS+20d]; 2.3.2.12.7.27[FS] |
| 2.3.2.1.15.28 | WLS Fiber Production - Delivery A-28 | Complete | 1d | 31Jul12 31Jul12 | 17Sep12 17Sep12 | None | | None | | 2.3.2.1.15.27[FS+20d] | 2.3.2.1.15.29[FS+20d]; 2.3.2.12.7.28[FS] |
| 2.3.2.1.15.29 | WLS Fiber Production - Delivery A-29 | Complete | 1d | 29Aug12 29Aug12 | 16Oct12 16Oct12 | None | | None | | 2.3.2.1.15.28[FS+20d] | 2.3.2.1.15.30[FS+20d]; 2.3.2.12.7.29[FS] |
| 2.3.2.1.15.30 | WLS Fiber Production - Delivery A-30 | Complete | 1d | 01Oct12 01Oct12 | 14Nov12 14Nov12 | None | | None | | 2.3.2.1.15.29[FS+20d] | 2.3.2.1.15.31[FS+20d]; 2.3.2.12.7.30[FS] |
| 2.3.2.1.15.31 | WLS Fiber Production - Delivery A-31 | Complete | 1d | 08Nov12 08Nov12 | 17Dec12 17Dec12 | None | | None | | 2.3.2.1.15.30[FS+20d] | 2.3.2.1.15.32[FS+20d]; 2.3.2.12.7.31[FS]; 2.3.2.1.12[FS] |
| 2.3.2.1.15.32 | WLS Fiber Production - Supplemental Delivery | Complete | 1d | 07Dec12 07Dec12 | 02Jan13 02Jan13 | None | | None | | 2.3.2.1.15.31[FS+20d] | 2.3.2.12.7.32[FS] |
| 2.3.2.12 | WLS Fiber - Quality Assurance | Complete | 742d | 03Feb10 15Jan13 | 03Feb10 31Jan13 | None | | None | | | |
| 2.3.2.12.1 | WLS Fiber Quality Assurance - FY10 - initial production | Complete | 62d | 03Feb10 15Apr10 | 03Feb10 27Apr10 | None | | None | | 2.3.2.1.1[SS] | 2.3.2.12.7.1[FS]; 2.3.2.12.2[FS] |
| 2.3.2.12.2 | WLS Fiber Quality Assurance - FY10 - full rate (obsolete) | Complete | 1d | 28Apr10 28Apr10 | 28Apr10 28Apr10 | None | | None | | 2.3.2.12.1[FS]; 2.3.2.1.2[SS] | 2.3.2.12.3[FS] |
| 2.3.2.12.3 | WLS Fiber Quality Assurance - FY11 (obsolete) | Complete | 1d | 01Oct10 01Oct10 | 01Oct10 01Oct10 | None | | None | | 2.3.2.1.3[SS]; 2.3.2.12.2[FS] | 2.3.2.12.4[FS] |
| 2.3.2.12.4 | WLS Fiber Quality Assurance - FY12 (obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | 2.3.2.12.3[FS]; 2.3.2.1.4[SS] | 2.3.2.12.6[FS]; 2.3.2.12.5[FS] |
| 2.3.2.12.5 | WLS Fiber Quality Assurance - FY13 (obsolete) | Complete | 1d | 01Oct12 01Oct12 | 01Oct12 01Oct12 | None | | None | | 2.3.2.1.5[SS]; 2.3.2.12.4[FS] | |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.3.2.12.7 | WLS Fiber Quality Assurance - Option A | Complete | 682d | 28Apr10 15Jan13 | 18May10 31Jan13 | None | | None | | | |
| 2.3.2.12.7.1 | WLS Fiber Quality Assurance - Delivery A-1 | Complete | 21d | 28Apr10 28May10 | 18May10 16Jun10 | None | | None | | 2.3.2.1.15.1[FS]; 2.3.2.12.1[FS] | 2.3.2.12.7.2[FS] |
| 2.3.2.12.7.2 | WLS Fiber Quality Assurance - Delivery A-2 | Complete | 21d | 12Jul10 30Jul10 | 19Jul10 16Aug10 | None | | None | | 2.3.2.12.7.1[FS]; 2.3.2.1.15.2[FS] | 2.3.2.12.7.3[FS] |
| 2.3.2.12.7.3 | WLS Fiber Quality Assurance - Delivery A-3 | Complete | 21d | 10Aug10 30Aug10 | 17Aug10 15Sep10 | None | | None | | 2.3.2.12.7.2[FS]; 2.3.2.1.15.3[FS] | 2.3.2.12.7.4[FS]; 2.3.2.13.1[FS] |
| 2.3.2.12.7.4 | WLS Fiber Quality Assurance - Delivery A-4 | Complete | 21d | 07Sep10 17Sep10 | 16Sep10 14Oct10 | None | | None | | 2.3.2.12.7.3[FS]; 2.3.2.1.15.4[FS] | 2.3.2.12.7.5[FS] |
| 2.3.2.12.7.5 | WLS Fiber Quality Assurance - Delivery A-5 | Complete | 21d | 01Oct10 20Oct10 | 15Oct10 12Nov10 | None | | None | | 2.3.2.12.7.4[FS]; 2.3.2.1.15.5[FS] | 2.3.2.12.7.6[FS] |
| 2.3.2.12.7.6 | WLS Fiber Quality Assurance - Delivery A-6 | Complete | 21d | 01Nov10 15Nov10 | 15Nov10 15Dec10 | None | | None | | 2.3.2.12.7.5[FS]; 2.3.2.1.15.6[FS] | 2.3.2.12.7.7[FS] |
| 2.3.2.12.7.7 | WLS Fiber Quality Assurance - Delivery A-7 | Complete | 21d | 15Nov10 15Dec10 | 16Dec10 19Jan11 | None | | None | | 2.3.2.12.7.6[FS]; 2.3.2.1.15.7[FS] | 2.3.2.12.7.8[FS] |
| 2.3.2.12.7.8 | WLS Fiber Quality Assurance - Delivery A-8 | Complete | 21d | 03Dec10 30Dec10 | 20Jan11 17Feb11 | None | | None | | 2.3.2.12.7.7[FS]; 2.3.2.1.15.8[FS] | 2.3.2.12.7.9[FS] |
| 2.3.2.12.7.9 | WLS Fiber Quality Assurance - Delivery A-9 | Complete | 21d | 03Jan11 30Jan11 | 18Feb11 18Mar11 | None | | None | | 2.3.2.12.7.8[FS]; 2.3.2.1.15.9[FS] | 2.3.2.12.7.10[FS]; 2.3.2.13.2[FS] |
| 2.3.2.12.7.10 | WLS Fiber Quality Assurance - Delivery A-10 | Complete | 21d | 02Feb11 11Mar11 | 21Mar11 18Apr11 | None | | None | | 2.3.2.12.7.9[FS]; 2.3.2.1.15.10[FS] | 2.3.2.12.7.11[FS] |
| 2.3.2.12.7.11 | WLS Fiber Quality Assurance - Delivery A-11 | Complete | 21d | 14Mar11 25Mar11 | 19Apr11 17May11 | None | | None | | 2.3.2.12.7.10[FS]; 2.3.2.1.15.11[FS] | 2.3.2.12.7.12[FS] |
| 2.3.2.12.7.12 | WLS Fiber Quality Assurance - Delivery A-12 | Complete | 21d | 05Apr11 29Apr11 | 18May11 16Jun11 | None | | None | | 2.3.2.12.7.11[FS]; 2.3.2.1.15.12[FS] | 2.3.2.12.7.13[FS] |
| 2.3.2.12.7.13 | WLS Fiber Quality Assurance - Delivery A-13 | Complete | 21d | 03May11 31May11 | 17Jun11 18Jul11 | None | | None | | 2.3.2.12.7.12[FS]; 2.3.2.1.15.13[FS] | 2.3.2.12.7.14[FS] |
| 2.3.2.12.7.14 | WLS Fiber Quality Assurance - Delivery A-14 | Complete | 21d | 02Jun11 30Jun11 | 19Jul11 16Aug11 | None | | None | | 2.3.2.12.7.13[FS]; 2.3.2.1.15.14[FS] | 2.3.2.12.7.15[FS] |
| 2.3.2.12.7.15 | WLS Fiber Quality Assurance - Delivery A-15 | Complete | 21d | 05Jul11 29Jul11 | 17Aug11 15Sep11 | None | | None | | 2.3.2.12.7.14[FS]; 2.3.2.1.15.15[FS] | 2.3.2.12.7.16[FS]; 2.3.2.13.3[FS] |
| 2.3.2.12.7.16 | WLS Fiber Quality Assurance - Delivery A-16 | Complete | 21d | 01Aug11 29Aug11 | 16Sep11 14Oct11 | None | | None | | 2.3.2.12.7.15[FS]; 2.3.2.1.15.16[FS] | 2.3.2.12.7.17[FS] |
| 2.3.2.12.7.17 | WLS Fiber Quality Assurance - Delivery A-17 | Complete | 21d | 01Sep11 07Oct11 | 17Oct11 14Nov11 | None | | None | | 2.3.2.1.15.17[FS]; 2.3.2.12.7.16[FS] | 2.3.2.12.7.18[FS] |
| 2.3.2.12.7.18 | WLS Fiber Quality Assurance - Delivery A-18 | Complete | 21d | 10Oct11 30Oct11 | 15Nov11 15Dec11 | None | | None | | 2.3.2.1.15.18[FS]; 2.3.2.12.7.17[FS] | 2.3.2.12.7.19[FS] |
| 2.3.2.12.7.19 | WLS Fiber Quality Assurance - Delivery A-19 | Complete | 21d | 01Nov11 30Nov11 | 16Dec11 20Jan12 | None | | None | | 2.3.2.1.15.19[FS]; 2.3.2.12.7.18[FS] | 2.3.2.12.7.20[FS] |
| 2.3.2.12.7.20 | WLS Fiber Quality Assurance - Delivery A-20 | Complete | 21d | 01Dec11 29Dec11 | 23Jan12 20Feb12 | None | | None | | 2.3.2.1.15.20[FS]; 2.3.2.12.7.19[FS] | 2.3.2.13.4[FS]; 2.3.2.12.7.21[FS] |
| 2.3.2.12.7.21 | WLS Fiber Quality Assurance - Delivery A-21 | Complete | 21d | 10Jan12 31Jan12 | 21Feb12 20Mar12 | None | | None | | 2.3.2.1.15.21[FS]; 2.3.2.12.7.20[FS] | 2.3.2.12.7.22[FS] |
| 2.3.2.12.7.22 | WLS Fiber Quality Assurance - Delivery A-22 | Complete | 21d | 02Feb12 29Feb12 | 21Mar12 18Apr12 | None | | None | | 2.3.2.1.15.22[FS]; 2.3.2.12.7.21[FS] | 2.3.2.12.7.23[FS] |
| 2.3.2.12.7.23 | WLS Fiber Quality Assurance - Delivery A-23 | Complete | 21d | 05Mar12 30Mar12 | 19Apr12 17May12 | None | | None | | 2.3.2.1.15.23[FS]; 2.3.2.12.7.22[FS] | 2.3.2.12.7.24[FS] |
| 2.3.2.12.7.24 | WLS Fiber Quality Assurance - Delivery A-24 | Complete | 21d | 02Apr12 27Apr12 | 18May12 18Jun12 | None | | None | | 2.3.2.1.15.24[FS]; 2.3.2.12.7.23[FS] | 2.3.2.12.7.25[FS] |
| 2.3.2.12.7.25 | WLS Fiber Quality Assurance - Delivery A-25 | Complete | 21d | 01May12 30May12 | 19Jun12 18Jul12 | None | | None | | 2.3.2.1.15.25[FS]; 2.3.2.12.7.24[FS] | 2.3.2.12.7.26[FS] |
| 2.3.2.12.7.26 | WLS Fiber Quality Assurance - Delivery A-26 | Complete | 21d | 01Jun12 16Jul12 | 19Jul12 16Aug12 | None | | None | | 2.3.2.1.15.26[FS]; 2.3.2.12.7.25[FS] | 2.3.2.13.5[FS]; 2.3.2.12.7.27[FS] |
| 2.3.2.12.7.27 | WLS Fiber Quality Assurance - Delivery A-27 | Complete | 21d | 16Jul12 29Aug12 | 17Aug12 17Sep12 | None | | None | | 2.3.2.1.15.27[FS]; 2.3.2.12.7.26[FS] | 2.3.2.12.7.28[FS] |
| 2.3.2.12.7.28 | WLS Fiber Quality Assurance - Delivery A-28 | Complete | 21d | 07Sep12 18Sep12 | 18Sep12 16Oct12 | None | | None | | 2.3.2.1.15.28[FS]; 2.3.2.12.7.27[FS] | 2.3.2.12.7.29[FS] |
| 2.3.2.12.7.29 | WLS Fiber Quality Assurance - Delivery A-29 | Complete | 21d | 19Sep12 08Oct12 | 17Oct12 14Nov12 | None | | None | | 2.3.2.1.15.29[FS]; 2.3.2.12.7.28[FS] | 2.3.2.12.7.30[FS] |
| 2.3.2.12.7.30 | WLS Fiber Quality Assurance - Delivery A-30 | Complete | 21d | 09Oct12 28Oct12 | 15Nov12 17Dec12 | None | | None | | 2.3.2.1.15.30[FS]; 2.3.2.12.7.29[FS] | 2.3.2.13.6[FS]; 2.3.2.12.7.31[FS] |
| 2.3.2.12.7.31 | WLS Fiber Quality Assurance - Delivery A-31 | Complete | 21d | 12Nov12 12Dec12 | 18Dec12 22Jan13 | None | | None | | 2.3.2.1.15.31[FS]; 2.3.2.12.7.30[FS] | 2.3.2.12.7.32[FS]; 2.5.3.3.2.30.1.1[FS]; 2.5.3.3.2.30.2.1[FS] |
| 2.3.2.12.7.32 | WLS Fiber Quality Assurance - Supplemental Delivery | Complete | 20d | 13Dec12 15Jan13 | 03Jan13 31Jan13 | None | | None | | 2.3.2.12.7.31[FS]; 2.3.2.1.15.32[FS] | 2.5.3.3.2.30.1.1[FS]; 2.5.3.3.2.30.2.1[FS] |
| 2.3.2.13 | Shipping | In Progress | 464d | 02Mar12 07Jan14 | 19May11 17Apr13 | None | | None | | | |
| 2.3.2.13.1 | Ship fiber to module factory - shipment 1 | Complete | 2d | 02Mar12 02Mar12 | 19May11 20May11 | None | | None | | 2.5.3.3.2.1.1.1[SS-20d]; 2.5.3.2.6.10[FS-5d]; 2.3.2.12.7.3[FS] | 2.3.2.13.2[FS] |
| 2.3.2.13.2 | Ship fiber to module factory - shipment 2 | Complete | 2d | 02Mar12 02Mar12 | 08Feb12 09Feb12 | None | | None | | 2.3.2.13.1[FS]; 2.5.3.3.2.3.1.1[SS-5d]; 2.3.2.12.7.9[FS] | 2.3.2.13.3[FS]; 2.5.3.3.2.6.2.1[FS]; 2.5.3.3.2.6.1.1[FS] |
| 2.3.2.13.3 | Ship fiber to module factory - shipment 3 | Complete | 2d | 02Mar12 02Mar12 | 29May12 30May12 | None | | None | | 2.3.2.13.2[FS]; 2.5.3.3.2.9.1.1[SS-5d]; 2.3.2.12.7.15[FS] | 2.3.2.13.4[FS]; 2.5.3.3.2.11.2.1[FS]; 2.5.3.3.2.11.1.1[FS] |
| 2.3.2.13.4 | Ship fiber to module factory - shipment 4 | Complete | 2d | 03Jun13 04Jun13 | 18Sep12 19Sep12 | None | | None | | 2.3.2.13.3[FS]; 2.5.3.3.2.15.1.1[SS-5d]; 2.3.2.12.7.20[FS] | 2.3.2.13.5[FS]; 2.5.3.3.2.19.1.1[FS]; 2.5.3.3.2.19.2.1[FS] |
| 2.3.2.13.5 | Ship fiber to module factory - shipment 5 | Planned | 2d | 03Jul13 05Jul13 | 20Dec12 21Dec12 | None | | None | | 2.5.3.3.2.20.1.1[SS-5d]; 2.3.2.13.4[FS]; 2.3.2.12.7.26[FS] | 2.3.2.13.6[FS]; 2.5.3.3.2.22.1.1[FS]; 2.5.3.3.2.22.2.1[FS] |
| 2.3.2.13.6 | Ship fiber to module factory - shipment 6 | Planned | 2d | 11Oct13 14Oct13 | 16Apr13 17Apr13 | None | | None | | 2.3.2.13.5[FS]; 2.3.2.12.7.30[FS]; 2.5.3.3.2.25.1.1[SS-5d] | 2.3.2.13.8[FS]; 2.5.3.3.2.27.1.1[FS]; 2.5.3.3.2.27.2.1[FS] |
| 2.3.2.14 | WLS Fiber Storage Infrastructure Improvements | Complete | 40d | 01Dec09 30Dec09 | 08Dec09 08Feb10 | None | | None | | 2.10.8.1[SS] | 2.3.2.1.1[FS] |
| 2.3.3 | Management - Construction Phase | Complete | 1256d | 01Oct07 28Sep12 | 01Oct07 28Sep12 | None | | None | | | |
| 2.3.3.2 | FY08 (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.3.3.2.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.3.3.3.1[FS] |
| 2.3.3.2.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.3.3.3.2[FS] |
| 2.3.3.2.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.3.3.3.3[FS] |
| 2.3.3.2.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.3.3.3.4[FS] |
| 2.3.3.3 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.3.3.3.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS]; 2.3.3.2.1[FS] | 2.3.3.3.2[SS]; 2.3.3.4.1[FS]; 2.3.3.3.3[SS]; 2.3.3.3.4[SS] |
| 2.3.3.3.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.3.3.3.1[SS]; 2.3.3.2.2[FS] | 2.3.3.4.2[FS] |
| 2.3.3.3.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.3.3.2.3[FS]; 2.3.3.3.1[SS] | 2.3.3.4.3[FS] |
| 2.3.3.3.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.3.3.2.4[FS]; 2.3.3.3.1[SS] | 2.3.3.4.4[FS] |
| 2.3.3.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.3.3.4.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.3.3.3.1[FS] | 2.3.3.5.1[FS] |
| 2.3.3.4.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.3.3.3.2[FS] | 2.3.3.5.2[FS] |
| 2.3.3.4.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.3.3.3.3[FS] | 2.3.3.5.3[FS] |
| 2.3.3.4.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.3.3.3.4[FS] | 2.3.3.5.4[FS] |
| 2.3.3.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.3.3.5.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.3.3.4.1[FS] | 2.3.3.6.1[FS] |
| 2.3.3.5.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.3.3.4.2[FS] | 2.3.3.6.2[FS] |
| 2.3.3.5.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.3.3.4.3[FS] | 2.3.3.6.3[FS] |
| 2.3.3.5.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.3.3.4.4[FS] | 2.3.3.6.4[FS] |
| 2.3.3.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.3.3.6.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.3.3.5.1[FS] | |
| 2.3.3.6.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.3.3.5.2[FS] | |
| 2.3.3.6.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.3.3.5.3[FS] | |
| 2.3.3.6.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.3.3.5.4[FS] | |
| 2.3.4 | Additional WLS Fiber-Related Tasks | In Progress | 805d | 03May10 15Jul13 | 03May10 28Feb11 | None | | None | | | |
| 2.3.4.1 | Design and fabricate a prototype fiber loop transmission (FTL) device | Complete | 63d | 03May10 25Mar11 | 03May10 30Jul10 | None | | None | | | 2.5.3.3.2.1.2.1[FS]; 2.5.3.3.2.1.1.1[FS] |
| 2.3.4.2 | Design and fabricate a fiber re-spooling device | Complete | 85d | 03May10 30Jan11 | 03May10 31Aug10 | None | | None | | | 2.3.4.3[FS] |
| 2.3.4.3 | Operate the fiber re-spooling device to re-spool fibers | In Progress | 105d | 11Feb11 15Jul13 | 01Sep10 28Feb11 | None | | None | | 2.3.4.2[FS] | |
| 2.4 | PVC Extrusions | In Progress | 1609d | 01Oct07 28Feb14 | 01Oct07 28Feb14 | None | | None | | | |
| 2.4.1 | Procurement | Complete | 608d | 01Jul09 30Nov11 | 10Jun09 01Mar10 | None | | None | | | |
| 2.4.1.1 | Extrusion Contract | Complete | 114d | 01Jul09 11Dec09 | 10Jun09 01Oct09 | None | | None | | | |
| 2.4.1.1.1 | Prepare and issue RFP | Complete | 20d | 01Jul09 28Jul09 | 10Jun09 08Jul09 | None | | None | | 2.10.8.1[FS] | 2.4.1.1.2[FS+15d] |
| 2.4.1.1.2 | Evaluate proposals and select vendor | Complete | 5d | 25Aug09 26Aug09 | 06Aug09 19Aug09 | None | | None | | 2.4.1.1.1[FS+15d] | 2.4.1.1.3[FS] |
| 2.4.1.1.3 | Prepare purchase req and PO | Complete | 15d | 27Aug09 27Sep09 | 20Aug09 24Sep09 | None | | None | | 2.4.1.1.2[FS] | 2.4.1.1.4[FS] |
| 2.4.1.1.4 | Conduct extrusion production readiness review | Complete | 1d | 20Sep09 02Nov09 | 25Sep09 01Oct09 | None | | None | | 2.4.1.1.3[FS] | 2.4.1.1.5[FS] |
| 2.4.1.1.5 | Extrusion PO issued | Complete | 0 | 11Dec09 11Dec09 | 01Oct09 01Oct09 | None | | None | | 2.10.9.5[FS]; 2.4.1.1.4[FS] | 2.4.2.1.1[FS]; 2.4.2.2.1[SS+20d]; 2.4.2.1.2[SS+60d]; 2.4.1.3.1[FS] |
| 2.4.1.2 | Raw Material (Resin) Contract | Complete | 130d | 01Dec09 08Jun10 | 10Jun09 01Feb10 | None | | None | | | |
| 2.4.1.2.1 | Prepare and issue RFPs | Complete | 20d | 01Dec09 21Dec09 | 10Jun09 08Jul09 | None | | None | | 2.10.8.1[FS] | 2.4.1.2.2[FS+20d] |
| 2.4.1.2.2 | Evaluate proposals and select prospective vendor(s) | Complete | 10d | 04Feb10 07Apr10 | 06Aug09 19Aug09 | None | | None | | 2.4.1.2.1[FS+20d] | 2.4.1.2.3.1[FS] |
| 2.4.1.2.3 | Prepare purchase reqs and POs | Complete | 43d | 05Feb10 06Apr10 | 20Aug09 25Jan10 | None | | None | | | |
| 2.4.1.2.3.1 | Prepare purchase reqs for vendor samples | Complete | 20d | 05Feb10 22Feb10 | 20Aug09 24Sep09 | None | | None | | 2.4.1.2.2[FS] | 2.4.1.2.3.2[FS] |
| 2.4.1.2.3.2 | Vendor Samples POs issued | Complete | 0 | 22Feb10 22Feb10 | 25Sep09 25Sep09 | None | | None | | 2.4.1.2.3.1[FS] | 2.4.1.2.3.3[FS+10d] |
| 2.4.1.2.3.3 | Obtain vendor samples | Complete | 30d | 07Mar10 10Mar10 | 09Oct09 19Nov09 | None | | None | | 2.4.1.2.3.2[FS+10d] | 2.4.1.2.3.4[FS] |
| 2.4.1.2.3.4 | Extrude samples using NOva prototype dies | Complete | 20d | 10Mar10 17Mar10 | 20Nov09 21Dec09 | None | | None | | 2.4.1.2.3.3[FS] | 2.4.1.2.3.6[FS]; 2.4.1.2.3.5[FS] |
| 2.4.1.2.3.5 | Conduct mechanical tests of extruded samples | Complete | 20d | 10Mar10 06Apr10 | 22Dec09 25Jan10 | None | | None | | 2.4.1.2.3.4[FS] | 2.4.1.2.4[FS] |
| 2.4.1.2.3.6 | Conduct reflectivity tests of extruded samples | Complete | 20d | 10Mar10 26Mar10 | 22Dec09 25Jan10 | None | | None | | 2.4.1.2.3.4[FS] | 2.4.1.2.4[FS] |
| 2.4.1.2.4 | Conduct raw material production readiness review | Complete | 1d | 20May10 21May10 | 26Jan10 01Feb10 | None | | None | | 2.4.1.2.3.5[FS]; 2.4.1.2.3.6[FS] | 2.4.1.2.5[FS] |
| 2.4.1.2.5 | Raw material POs issued | Complete | 0 | 08Jun10 08Jun10 | 01Feb10 01Feb10 | None | | None | | 2.4.1.2.4[FS] | 2.4.2.1.2[FS] |
| 2.4.1.3 | Quality Control Instruments | Complete | 498d | 08Dec09 30Nov11 | 02Oct09 01Mar10 | None | | None | | | |
| 2.4.1.3.1 | Investigate commercial QC instruments | Complete | 20d | 08Dec09 02Feb10 | 02Oct09 29Oct09 | None | | None | | 2.4.1.1.5[FS] | 2.4.1.3.3[SS]; 2.4.1.3.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.1.3.2 | Purchase commercial QC instruments | Complete | 40d | 02Feb10 29Nov10 | 30Oct09 30Dec09 | None | | None | | 2.4.1.3.1[FS] | 2.4.1.3.4[SS+20d] |
| 2.4.1.3.3 | Build custom QC instruments | Complete | 60d | 12Feb10 17Feb11 | 02Oct09 30Dec09 | None | | None | | 2.4.1.3.1[SS] | 2.4.5.1[FS] |
| 2.4.1.3.4 | Setup QC instruments | Complete | 50d | 14Jun10 30Nov11 | 01Dec09 01Mar10 | None | | None | | 2.4.1.3.2[SS+20d] | 2.4.2.1.12[FS]; 2.4.2.2.12[FS] |
| 2.4.2 | Extrusion Pre-Production | Complete | 418d | 01Oct09 01Jun11 | 02Oct09 31Jan11 | None | | None | | | |
| 2.4.2.1 | Horizontal Extrusion Pre-production | Complete | 418d | 01Oct09 01Jun11 | 02Oct09 27Oct10 | None | | None | | | |
| 2.4.2.1.1 | Vendor setup | Complete | 125d | 01Oct09 01Jun11 | 02Oct09 10May10 | None | | None | | 2.4.1.1.5[FS] | 2.4.5.5.1[FS-40d]; 2.4.5.5.2[FS-40d]; 2.4.2.1.12[FS] |
| 2.4.2.1.2 | Obtain PVC resin for test and preproduction | Complete | 20d | 24Mar10 12Jul10 | 06Apr10 03May10 | None | | None | | 2.4.1.1.5[SS+60d]; 2.4.1.2.5[FS] | 2.4.2.2.2[SS]; 2.4.2.1.3[FS-10d]; 2.4.2.1.14.1[FS] |
| 2.4.2.1.3 | Produce test extrusions | Complete | 10d | 13Apr10 14Apr10 | 30Jul10 12Aug10 | None | | None | | 2.4.2.1.2[FS-10d] | 2.4.2.1.4[SS]; 2.4.2.2.3[FS+2d] |
| 2.4.2.1.4 | First horizontal extrusions available for evaluation | Complete | 0 | 14Apr10 14Apr10 | 11May10 11May10 | None | | None | | 2.4.2.1.3[SS] | 2.4.2.1.16[FS]; 2.4.2.1.5[FS]; 2.4.2.1.7[FS] |
| 2.4.2.1.5 | Evaluate extrusions | Complete | 10d | 14Apr10 20Apr10 | 11May10 24May10 | None | | None | | 1.4.5.1[FS]; 2.4.2.1.4[FS] | 2.4.2.1.6[SS]; 2.4.2.1.7[FS] |
| 2.4.2.1.6 | Feedback QC info to vendor | Complete | 10d | 15Apr10 20Apr10 | 11May10 24May10 | None | | None | | 2.4.2.1.5[SS] | 2.4.2.1.7[FS] |
| 2.4.2.1.7 | Adjust horizontal die | Complete | 15d | 14Apr10 26May10 | 25May10 07Jul10 | None | | None | | 2.4.2.1.4[FS]; 2.4.2.1.5[FS]; 2.4.2.1.6[FS] | 2.4.2.1.8[FS] |
| 2.4.2.1.8 | Produce additional test extrusions | Complete | 10d | 26May10 27May10 | 15Sep10 28Sep10 | None | | None | | 2.4.2.1.7[FS]; 2.4.2.2.3[FS+2d] | 2.4.2.1.9[SS]; 2.4.2.1.11[FS]; 2.4.2.2.8[FS+2d] |
| 2.4.2.1.9 | Evaluate additional extrusions | Complete | 10d | 27May10 18Jun10 | 08Jul10 21Jul10 | None | | None | | 2.4.2.1.8[SS] | 2.4.2.1.10[SS]; 2.4.2.1.11[FS] |
| 2.4.2.1.10 | Feedback QC info to vendor | Complete | 10d | 21Jun10 21Jul10 | 08Jul10 21Jul10 | None | | None | | 2.4.2.1.9[SS] | 2.4.2.1.11[FS] |
| 2.4.2.1.11 | Final adjustment of horizontal die | Complete | 15d | 01Jul10 07Oct10 | 22Jul10 01Sep10 | None | | None | | 2.4.2.1.8[FS]; 2.4.2.1.10[FS]; 2.4.2.1.9[FS] | 2.4.2.1.12[FS] |
| 2.4.2.1.12 | Conduct pre-production horizontal extrusion review | Complete | 1d | 20Oct10 20Oct10 | 02Sep10 09Sep10 | None | | None | | 2.4.1.3.4[FS]; 2.4.2.1.1[FS]; 2.4.2.1.11[FS] | 2.4.2.1.13[FS] |
| 2.4.2.1.13 | Pre-production horizontal extrusions authorized | Complete | 0 | 21Oct10 21Oct10 | 10Sep10 10Sep10 | None | | None | | 2.4.2.1.12[FS] | 2.5.1.1.1[FF+30d]; 2.4.2.1.14.1[FS]; 2.4.5.2.1[FS]; 2.4.5.3.1.2[FS] |
| 2.4.2.1.14 | Preproduction Extrusion Fabrication-Horizontal | Complete | 49d | 08Sep10 15Nov10 | 17Sep10 27Oct10 | None | | None | | | |
| 2.4.2.1.14.1 | Produce PVC extrusions | Complete | 5d | 08Sep10 12Nov10 | 21Oct10 27Oct10 | None | | None | | 2.4.2.1.2[FS]; 2.4.2.2.8[FS]; 2.4.2.1.13[FS] | 2.4.2.1.14.2[FS]; 2.4.2.1.15[SS] |
| 2.4.2.1.14.2 | Ship PVC extrusions | Complete | 2d | 14Nov10 15Nov10 | 17Sep10 20Sep10 | None | | None | | 2.4.2.1.14.1[FS] | |
| 2.4.2.1.15 | Evaluate preproduction horizontal extrusions | Complete | 20d | 24Sep10 01Jun11 | 10Sep10 07Oct10 | None | | None | | 2.4.2.1.14.1[SS] | 2.4.3.1.1.1[FS]; 2.4.3.2.1.1.1[FS]; 2.4.2.1.16[SS] |
| 2.4.2.1.16 | Documentation | Complete | 20d | 19Oct10 01Jun11 | 10Sep10 07Oct10 | None | | None | | 2.4.2.1.4[FS]; 2.4.2.1.15[SS] | |
| 2.4.2.2 | Vertical Extrusion Pre-production | Complete | 325d | 01Oct09 20Jan11 | 30Oct09 15Nov10 | None | | None | | | |
| 2.4.2.2.1 | Vendor setup | Complete | 125d | 01Oct09 17Dec10 | 30Oct09 08Jun10 | None | | None | | 2.4.1.1.5[SS+20d] | 2.4.2.2.12[FS] |
| 2.4.2.2.2 | Obtain PVC resin for test and preproduction | Complete | 20d | 24Mar10 12Jul10 | 04May10 01Jun10 | None | | None | | 2.4.2.1.2[SS] | 2.4.2.2.3[FS+5d]; 2.4.2.2.14.1[FS] |
| 2.4.2.2.3 | Produce test extrusions | Complete | 10d | 15Apr10 16Apr10 | 27Aug10 10Sep10 | None | | None | | 2.4.2.2.2[FS+5d]; 2.4.2.1.3[FS+2d] | 2.4.2.1.8[FS+2d]; 2.4.2.2.4[SS] |
| 2.4.2.2.4 | First vertical extrusions available for evaluation | Complete | 0 | 16Apr10 16Apr10 | 09Jun10 09Jun10 | None | | None | | 2.4.2.2.3[SS] | 2.4.2.2.5[FS]; 2.4.2.2.7[FS]; 2.4.2.2.16[FS] |
| 2.4.2.2.5 | Evaluate extrusions | Complete | 10d | 15Apr10 20Apr10 | 09Jun10 22Jun10 | None | | None | | 2.4.2.2.4[FS] | 2.4.2.2.6[SS]; 2.4.2.2.7[FS] |
| 2.4.2.2.6 | Feedback QC info to vendor | Complete | 10d | 16Apr10 20Apr10 | 09Jun10 22Jun10 | None | | None | | 2.4.2.2.5[SS] | 2.4.2.2.7[FS] |
| 2.4.2.2.7 | Adjust vertical die | Complete | 15d | 23Apr10 18Jun10 | 23Jun10 04Aug10 | None | | None | | 2.4.2.2.4[FS]; 2.4.2.2.6[FS]; 2.4.2.2.5[FS] | 2.4.2.2.8[FS] |
| 2.4.2.2.8 | Produce additional test extrusions | Complete | 10d | 25May10 16Jul10 | 04Oct10 15Oct10 | None | | None | | 2.4.2.1.8[FS+2d]; 2.4.2.2.7[FS] | 2.4.2.2.9[SS]; 2.4.2.1.14.1[FS]; 2.4.2.2.11[FS]; 2.4.2.3[FS] |
| 2.4.2.2.9 | Evaluate additional extrusions | Complete | 10d | 25May10 22Jul10 | 05Aug10 18Aug10 | None | | None | | 2.4.2.2.8[SS] | 2.4.2.2.11[FS]; 2.4.2.2.10[SS] |
| 2.4.2.2.10 | Feedback QC info to vendor | Complete | 10d | 25May10 22Jul10 | 05Aug10 18Aug10 | None | | None | | 2.4.2.2.9[SS] | 2.4.2.2.11[FS] |
| 2.4.2.2.11 | Final adjustment of vertical die | Complete | 15d | 23Jul10 01Dec10 | 19Aug10 30Sep10 | None | | None | | 2.4.2.2.9[FS]; 2.4.2.2.10[FS]; 2.4.2.2.8[FS] | 2.4.2.2.12[FS] |
| 2.4.2.2.12 | Conduct pre-production vertical extrusion review | Complete | 1d | 03Dec10 03Dec10 | 01Oct10 07Oct10 | None | | None | | 2.4.1.3.4[FS]; 2.4.2.2.1[FS]; 2.4.2.2.11[FS] | 2.4.2.2.13[FS] |
| 2.4.2.2.13 | Pre-production vertical extrusions authorized | Complete | 0 | 03Dec10 03Dec10 | 08Oct10 08Oct10 | None | | None | | 2.4.2.2.12[FS] | 2.5.1.1.1[FF+30d]; 2.4.2.2.14.1[FS] |
| 2.4.2.2.14 | Preproduction Extrusion Fabrication-Vertical | Complete | 66d | 15Sep10 17Dec10 | 15Oct10 15Nov10 | None | | None | | | |
| 2.4.2.2.14.1 | Produce PVC extrusions | Complete | 5d | 15Sep10 17Dec10 | 09Nov10 15Nov10 | None | | None | | 2.4.2.2.2[FS]; 2.4.2.2.13[FS] | 2.4.2.2.14.2[FS]; 2.4.2.2.15[SS] |
| 2.4.2.2.14.2 | Ship PVC extrusions | Complete | 2d | 28Sep10 17Dec10 | 15Oct10 18Oct10 | None | | None | | 2.4.2.2.14.1[FS] | |
| 2.4.2.2.15 | Evaluate preproduction vertical extrusions | Complete | 20d | 15Sep10 07Jan11 | 08Oct10 04Nov10 | None | | None | | 2.4.2.2.14.1[SS] | 2.4.3.2.1.2.1[SS]; 2.4.2.2.16[SS]; 2.4.3.1.2.1[FS] |
| 2.4.2.2.16 | Documentation | Complete | 20d | 17Dec10 20Jan11 | 08Oct10 04Nov10 | None | | None | | 2.4.2.2.15[SS]; 2.4.2.2.4[FS] | |
| 2.4.2.3 | Pre-production PVC Extrusion Work - Supplemental | Complete | 20d | 03Jan11 31Jan11 | 03Jan11 31Jan11 | None | | None | | 2.4.2.2.8[FS] | |
| 2.4.3 | Extrusion Production | In Progress | 1046d | 01Sep09 29Oct13 | 28Sep10 30Dec13 | None | | None | | | |
| 2.4.3.1 | Near Detector | Complete | 312d | 01Sep09 29Nov10 | 11Nov10 13Dec10 | None | | None | | | |
| 2.4.3.1.1 | Horizontal Extrusion Production - ND | Complete | 209d | 02Feb10 24Nov10 | 11Nov10 24Nov10 | None | | None | | | |
| 2.4.3.1.1.1 | Obtain PVC resin - ND horizontals (OBSOLETE) | Complete | 1d | 15Nov10 15Nov10 | 15Nov10 15Nov10 | None | | None | | 2.4.2.1.15[FS] | 2.4.3.1.2.1[FS]; 2.4.3.1.1.2[FS+5d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.1.1.2 | Produce PVC extrusions - ND horizontals (OBSOLETE) | Complete | 1d | 23Nov10 23Nov10 | 23Nov10 23Nov10 | None | | None | | 2.4.3.1.1.1[FS+5d] | 2.4.3.1.1.3[SS+1d]; 2.4.3.1.1.4[SS] |
| 2.4.3.1.1.3 | Ship PVC extrusions - ND horizontals (OBSOLETE) | Complete | 1d | 24Nov10 24Nov10 | 24Nov10 24Nov10 | None | | None | | 2.4.3.1.1.2[SS+1d] | |
| 2.4.3.1.1.4 | Quality control and documentation - ND horizontals (OBSOLETE) | Complete | 1d | 23Nov10 23Nov10 | 23Nov10 23Nov10 | None | | None | | 2.4.3.1.1.2[SS] | |
| 2.4.3.1.1.5 | Near detector horizontal extrusions completed | Complete | 0 | 02Feb10 02Feb10 | 11Nov10 11Nov10 | None | | None | | 1.4.3.7.3[FS] | 2.5.3.3.3.2[FS] |
| 2.4.3.1.2 | Vertical Extrusion Production - ND | Complete | 312d | 01Sep09 29Nov10 | 16Nov10 13Dec10 | None | | None | | | |
| 2.4.3.1.2.1 | Obtain PVC resin - ND verticals (OBSOLETE) | Complete | 1d | 16Nov10 16Nov10 | 16Nov10 16Nov10 | None | | None | | 2.4.3.1.1.1[FS]; 2.4.2.2.15[FS] | 2.4.3.1.2.2[FS+5d] |
| 2.4.3.1.2.2 | Produce PVC extrusions - ND verticals (OBSOLETE) | Complete | 1d | 24Nov10 24Nov10 | 24Nov10 24Nov10 | None | | None | | 2.4.3.1.2.1[FS+5d] | 2.4.3.1.2.4[SS]; 2.4.3.1.2.3[SS+1d] |
| 2.4.3.1.2.3 | Ship PVC extrusions - ND verticals (OBSOLETE) | Complete | 1d | 29Nov10 29Nov10 | 29Nov10 29Nov10 | None | | None | | 2.4.3.1.2.2[SS+1d] | |
| 2.4.3.1.2.4 | Quality control and documentation - ND verticals (OBSOLETE) | Complete | 1d | 24Nov10 24Nov10 | 24Nov10 24Nov10 | None | | None | | 2.4.3.1.2.2[SS] | |
| 2.4.3.1.2.5 | Near detector vertical extrusions completed | Complete | 0 | 01Sep09 01Sep09 | 13Dec10 13Dec10 | None | | None | | 1.4.3.7.3[FS] | 2.5.3.3.3.2[FS] |
| 2.4.3.2 | Far Detector | In Progress | 783d | 20Sep10 29Oct13 | 28Sep10 30Dec13 | None | | None | | | |
| 2.4.3.2.1 | Extrusion Production - Block 1 | Complete | 249d | 20Sep10 14Sep11 | 28Sep10 16Mar11 | None | | None | | | |
| 2.4.3.2.1.1 | Extrusions - Block 1 - Planes 1-16 | Complete | 249d | 20Sep10 14Sep11 | 28Sep10 16Mar11 | None | | None | | | |
| 2.4.3.2.1.1.1 | Production of horizontal extrusions authorized (OBSOLETE) | Complete | 0 | 01Jun11 01Jun11 | 03Jan11 03Jan11 | None | | None | | 2.4.2.1.15[FS] | 2.4.4.4[FS]; 2.4.5.4.1[SS]; 2.4.3.2.1.1.3[SS]; 2.4.3.2.1.1.2[SS]; 2.4.3.2.44.1[SS] |
| 2.4.3.2.1.1.2 | Obtain PVC resin - Block 1 - Planes 1-16 | Complete | 5d | 20Sep10 20Sep10 | 28Sep10 04Oct10 | None | | None | | 2.4.3.2.1.1.1[SS] | 2.4.3.2.1.2.2[FS]; 2.4.3.2.1.1.3[FS] |
| 2.4.3.2.1.1.3 | Produce PVC extrusions - Block 1 - Planes 1-16 | Complete | 8d | 12Aug11 09Sep11 | 03Jan11 10Jan11 | None | | None | | 2.4.3.2.44.13[FS]; 2.4.3.2.1.1.1[SS]; 2.4.3.2.1.1.2[FS]; 2.4.3.2.4.2.2[FS+1d] | 2.4.3.2.1.1.4[FF+6d]; 2.4.3.2.2.1.2[FS]; 2.4.3.2.1.1.4[SS+3d]; 2.4.3.2.1.1.5[SS]; 2.4.5.2.3[SS] |
| 2.4.3.2.1.1.4 | Ship PVC extrusions to module factory - Block 1 - Planes 1-16 | Complete | 8d | 12Aug11 14Sep11 | 28Feb11 16Mar11 | None | | None | | 2.4.5.6[FS]; 2.4.3.2.1.1.3[FF+6d]; 2.4.3.2.4.2.3[FS]; 2.4.3.2.1.1.3[SS+3d]; 2.4.5.2.1[SS+20d] | 2.4.3.2.2.1.3[FS]; 2.5.3.3.2.1.1.1[SS+1d]; 2.5.3.3.7.3[SS+1d] |
| 2.4.3.2.1.1.5 | Quality control and documentation of extrusions - Block 1 - Planes 1-16 | Complete | 8d | 12Aug11 09Sep11 | 03Jan11 10Jan11 | None | | None | | 2.4.3.2.4.2.4[FS]; 2.4.3.2.1.1.3[SS] | 2.4.3.2.2.1.4[FS] |
| 2.4.3.2.1.2 | Extrusions - Block 1 - Planes 17-32 | Complete | 90d | 20Sep10 31Jan11 | 06Oct10 16Mar11 | None | | None | | | |
| 2.4.3.2.1.2.1 | Production of vertical extrusions authorized | Complete | 0 | 07Jan11 07Jan11 | 03Jan11 03Jan11 | None | | None | | 2.4.2.2.15[SS] | 2.4.3.2.1.2.2[SS]; 2.4.3.2.1.2.3[SS] |
| 2.4.3.2.1.2.2 | Obtain PVC resin - Block 1 - Planes 17-32 | Complete | 8d | 20Sep10 20Sep10 | 06Oct10 15Oct10 | None | | None | | 2.4.3.2.1.1.2[FS]; 2.4.3.2.1.2.1[SS] | 2.4.3.2.2.1.1[FS]; 2.4.3.2.1.2.3[FS+5d] |
| 2.4.3.2.1.2.3 | Produce PVC extrusions - Block 1 - Planes 17-32 | Complete | 9d | 10Jan11 26Jan11 | 24Jan11 03Feb11 | None | | None | | 2.4.3.2.1.2.1[SS]; 2.4.3.2.1.2.2[FS+5d] | 2.4.3.2.1.2.4[FF+6d]; 2.4.4.8[SS+1d]; 2.4.3.2.2.2.2[FS]; 2.4.3.2.1.2.4[SS+3d]; 2.4.3.2.1.2.5[SS] |
| 2.4.3.2.1.2.4 | Ship PVC extrusions to module factory - Block 1 - Planes 17-32 | Complete | 13d | 11Jan11 31Jan11 | 28Feb11 16Mar11 | None | | None | | 2.4.5.3.2[FS]; 2.4.3.2.1.2.3[FF+6d]; 2.4.3.2.1.2.3[SS+3d] | 2.4.3.2.2.2.3[FS]; 2.5.3.3.2.1.2.1[SS+1d]; 2.5.3.3.7.1[SS+1d] |
| 2.4.3.2.1.2.5 | Quality control and documentation of extrusions - Block 1 - Planes 17-32 | Complete | 9d | 10Jan11 26Jan11 | 24Jan11 03Feb11 | None | | None | | 2.4.3.2.1.2.3[SS] | 2.4.3.2.2.2.4[FS] |
| 2.4.3.2.2 | Extrusion Production - Block 2 | Complete | 269d | 20Sep10 12Oct11 | 28Sep10 04Apr11 | None | | None | | | |
| 2.4.3.2.2.1 | Extrusions - Block 2 - Planes 1-16 | Complete | 269d | 20Sep10 12Oct11 | 28Sep10 04Apr11 | None | | None | | | |
| 2.4.3.2.2.1.1 | Obtain PVC resin - Block 2 - Planes 1-16 | Complete | 6d | 20Sep10 20Sep10 | 28Sep10 05Oct10 | None | | None | | 2.4.3.2.1.2.2[FS] | 2.4.3.2.2.2.1[FS]; 2.4.3.2.2.1.2[FS+5d] |
| 2.4.3.2.2.1.2 | Produce PVC extrusions - Block 2 - Planes 1-16 | Complete | 8d | 09Sep11 04Oct11 | 11Jan11 20Jan11 | None | | None | | 2.4.3.2.1.1.3[FS]; 2.4.3.2.2.1.1[FS+5d] | 2.4.3.2.2.1.3[FF+6d]; 2.4.3.2.2.1.3[SS+3d]; 2.4.3.2.3.1.2[FS+1d]; 2.4.3.2.2.1.4[SS] |
| 2.4.3.2.2.1.3 | Ship PVC extrusions to module factory - Block 2 - Planes 1-16 | Complete | 8d | 14Sep11 12Oct11 | 17Mar11 04Apr11 | None | | None | | 2.4.3.2.2.1.2[FF+6d]; 2.4.3.2.2.1.2[SS+3d]; 2.4.3.2.1.1.4[FS] | 2.4.3.2.3.1.3[FS]; 2.5.3.3.7.3[FF+1d]; 2.5.3.3.2.2.1.1[SS+1d] |
| 2.4.3.2.2.1.4 | Quality control and documentation of extrusions - Block 2 - Planes 1-16 | Complete | 8d | 09Sep11 04Oct11 | 11Jan11 20Jan11 | None | | None | | 2.4.3.2.1.1.5[FS]; 2.4.3.2.2.1.2[SS] | 2.4.3.2.3.1.4[FS] |
| 2.4.3.2.2.2 | Extrusions - Block 2 - Planes 17-32 | Complete | 119d | 20Sep10 11Mar11 | 20Oct10 04Apr11 | None | | None | | | |
| 2.4.3.2.2.2.1 | Obtain PVC resin - Block 2 - Planes 17-32 | Complete | 7d | 20Sep10 20Sep10 | 20Oct10 28Oct10 | None | | None | | 2.4.3.2.2.1.1[FS] | 2.4.3.2.3.1.1[FS]; 2.4.3.2.2.2.2[FS+5d] |
| 2.4.3.2.2.2.2 | Produce PVC extrusions - Block 2 - Planes 17-32 | Complete | 8d | 27Jan11 04Mar11 | 04Feb11 15Feb11 | None | | None | | 2.4.3.2.1.2.3[FS]; 2.4.3.2.2.2.1[FS+5d] | 2.4.3.2.2.2.3[FF+6d]; 2.4.3.2.2.2.3[SS+3d]; 2.4.3.2.2.2.4[SS]; 2.4.3.2.3.2.2[FS]; 2.4.3.2.44.12[FS] |
| 2.4.3.2.2.2.3 | Ship PVC extrusions to module factory - Block 2 - Planes 17-32 | Complete | 13d | 02Feb11 11Mar11 | 17Mar11 04Apr11 | None | | None | | 2.4.3.2.2.2.2[FF+6d]; 2.4.3.2.2.2.2[SS+3d]; 2.4.3.2.1.2.4[FS] | 2.4.3.2.3.2.3[FS]; 2.5.3.3.2.2.2.1[SS+1d]; 2.5.3.3.7.1[FF+1d] |
| 2.4.3.2.2.2.4 | Quality control and documentation of extrusions - Block 2 - Planes 17-32 | Complete | 8d | 27Jan11 04Mar11 | 04Feb11 15Feb11 | None | | None | | 2.4.3.2.1.2.5[FS]; 2.4.3.2.2.2.2[SS] | 2.4.3.2.3.2.4[FS] |
| 2.4.3.2.3 | Extrusion Production - Block 3 | Complete | 272d | 20Sep10 17Oct11 | 04Nov10 21Apr11 | None | | None | | | |
| 2.4.3.2.3.1 | Extrusions - Block 3 - Planes 1-16 | Complete | 272d | 20Sep10 17Oct11 | 04Nov10 21Apr11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.3.1.1 | Obtain PVC resin - Block 3 - Planes 1-16 | Complete | 5d | 20Sep10 20Sep10 | 04Nov10 10Nov10 | None | | None | | 2.4.3.2.2.2.1[FS] | 2.4.3.2.3.2.1[FS]; 2.4.3.2.3.1.2[FS+5d] |
| 2.4.3.2.3.1.2 | Produce PVC extrusions - Block 3 - Planes 1-16 | Complete | 8d | 04Oct11 13Oct11 | 17Feb11 24Feb11 | None | | None | | 2.4.3.2.2.1.2[FS+1d]; 2.4.3.2.3.1.1[FS+5d] | 2.4.3.2.3.1.3[FF+6d]; 2.4.3.2.4.1.2[FS]; 2.4.3.2.3.1.4[SS]; 2.4.3.2.3.1.3[SS+3d] |
| 2.4.3.2.3.1.3 | Ship PVC extrusions to module factory - Block 3 - Planes 1-16 | Complete | 8d | 05Oct11 17Oct11 | 05Apr11 21Apr11 | None | | None | | 2.4.3.2.3.1.2[FF+6d]; 2.4.3.2.2.1.3[FS]; 2.4.3.2.3.1.2[SS+3d] | 2.4.3.2.4.1.3[FS]; 2.5.3.3.2.3.1.1[SS+1d]; 2.5.3.3.7.4[SS+1d] |
| 2.4.3.2.3.1.4 | Quality control and documentation of extrusions - Block 3 - Planes 1-16 | Complete | 8d | 04Oct11 13Oct11 | 17Feb11 24Feb11 | None | | None | | 2.4.3.2.2.1.4[FS]; 2.4.3.2.3.1.2[SS] | 2.4.3.2.4.1.4[FS] |
| 2.4.3.2.3.2 | Extrusions - Block 3 - Planes 17-32 | Complete | 149d | 26Oct10 31May11 | 19Nov10 21Apr11 | None | | None | | | |
| 2.4.3.2.3.2.1 | Obtain PVC resin - Block 3 - Planes 17-32 | Complete | 8d | 26Oct10 27Oct10 | 19Nov10 02Dec10 | None | | None | | 2.4.3.2.3.1.1[FS] | 2.4.3.2.3.2.2[FS+5d]; 2.4.3.2.4.1.1[FS] |
| 2.4.3.2.3.2.2 | Produce PVC extrusions - Block 3 - Planes 17-32 | Complete | 9d | 07Mar11 22Apr11 | 09Mar11 21Mar11 | None | | None | | 2.4.3.2.3.2.1[FS+5d]; 2.4.3.2.2.2.2[FS]; 2.4.3.2.44.12[FS] | 2.4.3.2.3.2.3[FF+6d]; 2.4.3.2.4.2.2[FS+1d]; 2.4.3.2.3.2.3[SS+3d]; 2.4.3.2.3.2.4[SS] |
| 2.4.3.2.3.2.3 | Ship PVC extrusions to module factory - Block 3 - Planes 17-32 | Complete | 13d | 18Mar11 31May11 | 05Apr11 21Apr11 | None | | None | | 2.4.3.2.3.2.2[FF+6d]; 2.4.3.2.2.2.3[FS]; 2.4.3.2.3.2.2[SS+3d] | 2.4.3.2.4.2.3[FS]; 2.5.3.3.7.2[SS+1d]; 2.5.3.3.2.3.2.1[SS+1d] |
| 2.4.3.2.3.2.4 | Quality control and documentation of extrusions - Block 3 - Planes 17-32 | Complete | 9d | 07Mar11 22Apr11 | 09Mar11 21Mar11 | None | | None | | 2.4.3.2.2.2.4[FS]; 2.4.3.2.3.2.2[SS] | 2.4.3.2.4.2.4[FS] |
| 2.4.3.2.4 | Extrusion Production - Block 4 | Complete | 222d | 03Jan11 14Nov11 | 03Jan11 10May11 | None | | None | | | |
| 2.4.3.2.4.1 | Extrusions - Block 4 - Planes 1-16 | Complete | 188d | 21Feb11 14Nov11 | 03Jan11 10May11 | None | | None | | | |
| 2.4.3.2.4.1.1 | Obtain PVC resin - Block 4 - Planes 1-16 | Complete | 6d | 21Feb11 04Mar11 | 03Jan11 10Jan11 | None | | None | | 2.4.3.2.3.2.1[FS] | 2.4.3.2.4.1.2[FS+5d]; 2.4.3.2.4.2.1[FS] |
| 2.4.3.2.4.1.2 | Produce PVC extrusions - Block 4 - Planes 1-16 | Complete | 8d | 13Oct11 27Oct11 | 25Feb11 07Mar11 | None | | None | | 2.4.3.2.3.1.2[FS]; 2.4.3.2.4.1.1[FS+5d] | 2.4.3.2.4.1.3[FF+6d]; 2.4.3.2.5.1.2[FS+1d]; 2.4.3.2.4.1.4[SS]; 2.4.3.2.4.1.3[SS+3d] |
| 2.4.3.2.4.1.3 | Ship PVC extrusions to module factory - Block 4 - Planes 1-16 | Complete | 8d | 19Oct11 14Nov11 | 22Apr11 10May11 | None | | None | | 2.4.3.2.4.1.2[FF+6d]; 2.4.3.2.3.1.3[FS]; 2.4.3.2.4.1.2[SS+3d] | 2.4.3.2.5.1.3[FS]; 2.5.3.3.2.4.1.1[SS+1d]; 2.5.3.3.7.4[FF+1d] |
| 2.4.3.2.4.1.4 | Quality control and documentation of extrusions - Block 4 - Planes 1-16 | Complete | 8d | 13Oct11 27Oct11 | 25Feb11 07Mar11 | None | | None | | 2.4.3.2.4.1.2[SS]; 2.4.3.2.3.1.4[FS] | 2.4.3.2.5.1.4[FS] |
| 2.4.3.2.4.2 | Extrusions - Block 4 - Planes 17-32 | Complete | 157d | 03Jan11 12Aug11 | 04Mar11 10May11 | None | | None | | | |
| 2.4.3.2.4.2.1 | Obtain PVC resin - Block 4 - Planes 17-32 | Complete | 7d | 03Jan11 07Jan11 | 04Mar11 14Mar11 | None | | None | | 2.4.3.2.4.1.1[FS] | 2.4.3.2.4.2.2[FS+5d]; 2.4.3.2.5.1.1[FS] |
| 2.4.3.2.4.2.2 | Produce PVC extrusions - Block 4 - Planes 17-32 | Complete | 11d | 25Apr11 10Aug11 | 22Mar11 31Mar11 | None | | None | | 2.4.3.2.3.2.2[FS+1d]; 2.4.3.2.4.2.1[FS+5d] | 2.4.3.2.4.2.3[FF+6d]; 2.4.3.2.44.13[FS]; 2.4.3.2.4.2.4[SS]; 2.4.3.2.4.2.3[SS+3d]; 2.4.3.2.1.1.3[FS+1d] |
| 2.4.3.2.4.2.3 | Ship PVC extrusions to module factory - Block 4 - Planes 17-32 | Complete | 8d | 11Jul11 12Aug11 | 22Apr11 10May11 | None | | None | | 2.4.3.2.4.2.2[FF+6d]; 2.4.3.2.3.2.3[FS]; 2.4.3.2.4.2.2[SS+3d] | 2.4.3.2.1.1.4[FS]; 2.5.3.3.2.4.2.1[SS+1d]; 2.5.3.3.7.2[FF+1d] |
| 2.4.3.2.4.2.4 | Quality control and documentation of extrusions - Block 4 - Planes 17-32 | Complete | 11d | 25Apr11 10Aug11 | 22Mar11 31Mar11 | None | | None | | 2.4.3.2.3.2.4[FS]; 2.4.3.2.4.2.2[SS] | 2.4.3.2.1.1.5[FS] |
| 2.4.3.2.5 | Extrusion Production - Block 5 | Complete | 195d | 02Mar11 06Dec11 | 21Mar11 02Dec11 | None | | None | | | |
| 2.4.3.2.5.1 | Extrusions - Block 5 - Planes 1-16 | Complete | 185d | 02Mar11 18Nov11 | 21Mar11 18Nov11 | None | | None | | | |
| 2.4.3.2.5.1.1 | Obtain PVC resin - Block 5 - Planes 1-16 | Complete | 5d | 02Mar11 04Apr11 | 21Mar11 25Mar11 | None | | None | | 2.4.3.2.4.2.1[FS] | 2.4.3.2.5.1.2[FS+5d]; 2.4.3.2.5.2.1[FS] |
| 2.4.3.2.5.1.2 | Produce PVC extrusions - Block 5 - Planes 1-16 | Complete | 8d | 27Oct11 14Nov11 | 01Nov11 10Nov11 | None | | None | | 2.4.3.2.5.1.1[FS+5d]; 2.4.3.2.4.1.2[FS+1d] | 2.4.3.2.5.1.3[FF+6d]; 2.4.3.2.5.2.2[FS]; 2.4.3.2.5.1.3[SS+3d]; 2.4.3.2.5.1.4[SS] |
| 2.4.3.2.5.1.3 | Ship PVC extrusions to module factory - Block 5 - Planes 1-16 | Complete | 8d | 08Nov11 18Nov11 | 09Nov11 18Nov11 | None | | None | | 2.4.5.3.1.2[FS]; 2.4.3.2.5.1.2[FF+6d]; 2.4.3.2.4.1.3[FS]; 2.4.3.2.5.1.2[SS+3d] | 2.4.3.2.5.2.3[FS]; 2.5.3.3.2.5.1.1[SS+1d]; 2.5.3.3.7.5[SS+1d] |
| 2.4.3.2.5.1.4 | Quality control and documentation of extrusions - Block 5 - Planes 1-16 | Complete | 8d | 27Oct11 14Nov11 | 01Nov11 10Nov11 | None | | None | | 2.4.3.2.4.1.4[FS]; 2.4.3.2.5.1.2[SS] | 2.4.3.2.5.2.4[FS] |
| 2.4.3.2.5.2 | Extrusions - Block 5 - Planes 17-32 | Complete | 171d | 05Apr11 06Dec11 | 30Aug11 02Dec11 | None | | None | | | |
| 2.4.3.2.5.2.1 | Obtain PVC resin - Block 5 - Planes 17-32 | Complete | 5d | 05Apr11 25Apr11 | 30Aug11 06Sep11 | None | | None | | 2.4.3.2.5.1.1[FS] | 2.4.3.2.6.1.1[FS]; 2.4.3.2.5.2.2[FS+5d] |
| 2.4.3.2.5.2.2 | Produce PVC extrusions - Block 5 - Planes 17-32 | Complete | 8d | 14Nov11 30Nov11 | 11Nov11 22Nov11 | None | | None | | 2.4.3.2.5.1.2[FS]; 2.4.3.2.5.2.1[FS+5d] | 2.4.3.2.5.2.4[SS]; 2.4.3.2.6.1.2[FS+1d]; 2.4.3.2.5.2.3[FF+6d]; 2.4.3.2.5.2.3[SS+3d]; 2.4.3.2.44.2[FS] |
| 2.4.3.2.5.2.3 | Ship PVC extrusions to module factory - Block 5 - Planes 17-32 | Complete | 8d | 21Nov11 06Dec11 | 21Nov11 02Dec11 | None | | None | | 2.4.3.2.5.1.3[FS]; 2.4.3.2.5.2.2[FF+6d]; 2.4.3.2.5.2.2[SS+3d] | 2.4.3.2.6.1.3[FS]; 2.5.3.3.2.5.2.1[SS+1d]; 2.5.3.3.7.5[FF+1d] |
| 2.4.3.2.5.2.4 | Quality control and documentation of extrusions - Block 5 - Planes 17-32 | Complete | 8d | 14Nov11 30Nov11 | 11Nov11 22Nov11 | None | | None | | 2.4.3.2.5.2.2[SS]; 2.4.3.2.5.1.4[FS] | 2.4.3.2.6.1.4[FS] |
| 2.4.3.2.6 | Extrusion Production - Block 6 | Complete | 179d | 26Apr11 12Jan12 | 28Mar11 29Dec11 | None | | None | | | |
| 2.4.3.2.6.1 | Extrusions - Block 6 - Planes 1-16 | Complete | 165d | 26Apr11 19Dec11 | 28Mar11 15Dec11 | None | | None | | | |
| 2.4.3.2.6.1.1 | Obtain PVC resin - Block 6 - Planes 1-16 | Complete | 5d | 26Apr11 17May11 | 28Mar11 01Apr11 | None | | None | | 2.4.3.2.5.2.1[FS] | 2.4.3.2.6.2.1[FS]; 2.4.3.2.6.1.2[FS+5d] |
| 2.4.3.2.6.1.2 | Produce PVC extrusions - Block 6 - Planes 1-16 | Complete | 8d | 30Nov11 14Dec11 | 28Nov11 07Dec11 | None | | None | | 2.4.3.2.5.2.2[FS+1d]; 2.4.3.2.6.1.1[FS+5d] | 2.4.3.2.6.2.2[FS]; 2.4.3.2.6.1.3[FF+6d]; 2.4.3.2.6.1.4[SS]; 2.4.3.2.6.1.3[SS+3d] |
| 2.4.3.2.6.1.3 | Ship PVC extrusions to module factory - Block 6 - Planes 1-16 | Complete | 8d | 07Dec11 19Dec11 | 06Dec11 15Dec11 | None | | None | | 2.4.3.2.5.2.3[FS]; 2.4.3.2.6.1.2[FF+6d]; 2.4.3.2.6.1.2[SS+3d] | 2.5.3.3.2.6.1.1[SS+1d]; 2.5.3.3.11.6[FS]; 2.5.3.3.7.6[SS+1d]; 2.4.3.2.6.2.3[FS] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.6.1.4 | Quality control and documentation of extrusions - Block 6 - Planes 1-16 | Complete | 8d | 30Nov11 14Dec11 | 28Nov11 07Dec11 | None | | None | | 2.4.3.2.6.1.2[SS]; 2.4.3.2.5.2.4[FS] | 2.4.3.2.6.2.4[FS] |
| 2.4.3.2.6.2 | Extrusions - Block 6 - Planes 17-32 | Complete | 164d | 17May11 12Jan12 | 27Sep11 29Dec11 | None | | None | | | |
| 2.4.3.2.6.2.1 | Obtain PVC resin - Block 6 - Planes 17-32 | Complete | 5d | 17May11 11Jul11 | 27Sep11 03Oct11 | None | | None | | 2.4.3.2.6.1.1[FS] | 2.4.3.2.7.1.1[FS]; 2.4.3.2.6.2.2[FS+5d] |
| 2.4.3.2.6.2.2 | Produce PVC extrusions - Block 6 - Planes 17-32 | Complete | 8d | 14Dec11 05Jan12 | 08Dec11 19Dec11 | None | | None | | 2.4.3.2.6.1.2[FS]; 2.4.3.2.6.2.1[FS+5d] | 2.4.3.2.7.1.2[FS+1d]; 2.4.3.2.6.2.3[FF+6d]; 2.4.3.2.6.2.3[SS+3d]; 2.4.3.2.6.2.4[SS] |
| 2.4.3.2.6.2.3 | Ship PVC extrusions to module factory - Block 6 - Planes 17-32 | Complete | 8d | 15Dec11 12Jan12 | 16Dec11 29Dec11 | None | | None | | 2.4.3.2.6.2.2[FF+6d]; 2.4.3.2.6.2.2[SS+3d]; 2.4.3.2.6.1.3[FS] | 2.5.3.3.7.6[FF+1d]; 2.5.3.3.2.6.2.1[SS+1d]; 2.4.3.2.7.1.3[FS] |
| 2.4.3.2.6.2.4 | Quality control and documentation of extrusions - Block 6 - Planes 17-32 | Complete | 8d | 14Dec11 05Jan12 | 08Dec11 19Dec11 | None | | None | | 2.4.3.2.6.1.4[FS]; 2.4.3.2.6.2.2[SS] | 2.4.3.2.7.1.4[FS] |
| 2.4.3.2.7 | Extrusion Production - Block 7 | Complete | 147d | 11Jul11 10Feb12 | 10Oct11 26Jan12 | None | | None | | | |
| 2.4.3.2.7.1 | Extrusions - Block 7 - Planes 1-16 | Complete | 136d | 11Jul11 26Jan12 | 10Oct11 13Jan12 | None | | None | | | |
| 2.4.3.2.7.1.1 | Obtain PVC resin - Block 7 - Planes 1-16 | Complete | 5d | 11Jul11 25Jul11 | 10Oct11 14Oct11 | None | | None | | 2.4.3.2.6.2.1[FS] | 2.4.3.2.7.2.1[FS]; 2.4.3.2.7.1.2[FS+5d] |
| 2.4.3.2.7.1.2 | Produce PVC extrusions - Block 7 - Planes 1-16 | Complete | 8d | 06Jan12 20Jan12 | 21Dec11 05Jan12 | None | | None | | 2.4.3.2.6.2.2[FS+1d]; 2.4.3.2.7.1.1[FS+5d] | 2.4.3.2.7.1.4[SS]; 2.4.3.2.7.2.2[FS]; 2.4.3.2.7.1.3[FF+6d]; 2.4.3.2.7.1.3[SS+3d] |
| 2.4.3.2.7.1.3 | Ship PVC extrusions to module factory - Block 7 - Planes 1-16 | Complete | 8d | 12Jan12 26Jan12 | 04Jan12 13Jan12 | None | | None | | 2.4.3.2.7.1.2[FF+6d]; 2.4.3.2.7.1.2[SS+3d]; 2.4.3.2.6.2.3[FS] | 2.5.3.3.2.7.1.1[SS+1d]; 2.5.3.3.11.7[FS]; 2.5.3.3.7.7[SS+1d]; 2.4.3.2.7.2.3[FS] |
| 2.4.3.2.7.1.4 | Quality control and documentation of extrusions - Block 7 - Planes 1-16 | Complete | 8d | 06Jan12 20Jan12 | 21Dec11 05Jan12 | None | | None | | 2.4.3.2.7.1.2[SS]; 2.4.3.2.6.2.4[FS] | 2.4.3.2.7.2.4[FS] |
| 2.4.3.2.7.2 | Extrusions - Block 7 - Planes 17-32 | Complete | 137d | 25Jul11 10Feb12 | 20Oct11 26Jan12 | None | | None | | | |
| 2.4.3.2.7.2.1 | Obtain PVC resin - Block 7 - Planes 17-32 | Complete | 5d | 25Jul11 12Aug11 | 20Oct11 26Oct11 | None | | None | | 2.4.3.2.7.1.1[FS] | 2.4.3.2.7.2.2[FS+5d]; 2.4.3.2.8.1.1[FS] |
| 2.4.3.2.7.2.2 | Produce PVC extrusions - Block 7 - Planes 17-32 | Complete | 8d | 20Jan12 03Feb12 | 06Jan12 18Jan12 | None | | None | | 2.4.3.2.7.2.1[FS+5d]; 2.4.3.2.7.1.2[FS] | 2.4.3.2.7.2.4[SS]; 2.4.3.2.7.2.3[SS+3d]; 2.4.3.2.7.2.3[FF+6d]; 2.4.3.2.8.1.2[FS+1d] |
| 2.4.3.2.7.2.3 | Ship PVC extrusions to module factory - Block 7 - Planes 17-32 | Complete | 8d | 26Jan12 10Feb12 | 17Jan12 26Jan12 | None | | None | | 2.4.3.2.7.2.2[SS+3d]; 2.4.3.2.7.2.2[FF+6d]; 2.4.3.2.7.1.3[FS] | 2.4.3.2.8.1.3[FS]; 2.5.3.3.7.7[FF+1d]; 2.5.3.3.2.7.2.1[SS+1d] |
| 2.4.3.2.7.2.4 | Quality control and documentation of extrusions - Block 7 - Planes 17-32 | Complete | 8d | 20Jan12 03Feb12 | 06Jan12 18Jan12 | None | | None | | 2.4.3.2.7.2.2[SS]; 2.4.3.2.7.1.4[FS] | 2.4.3.2.8.1.4[FS] |
| 2.4.3.2.8 | Extrusion Production - Block 8 | Complete | 139d | 15Aug11 06Mar12 | 02Nov11 20Feb12 | None | | None | | | |
| 2.4.3.2.8.1 | Extrusions - Block 8 - Planes 1-16 | Complete | 131d | 15Aug11 23Feb12 | 02Nov11 08Feb12 | None | | None | | | |
| 2.4.3.2.8.1.1 | Obtain PVC resin - Block 8 - Planes 1-16 | Complete | 5d | 15Aug11 26Aug11 | 02Nov11 08Nov11 | None | | None | | 2.4.3.2.7.2.1[FS] | 2.4.3.2.8.1.2[FS+5d]; 2.4.3.2.8.2.1[FS] |
| 2.4.3.2.8.1.2 | Produce PVC extrusions - Block 8 - Planes 1-16 | Complete | 8d | 03Feb12 17Feb12 | 20Jan12 31Jan12 | None | | None | | 2.4.3.2.8.1.1[FS+5d]; 2.4.3.2.7.2.2[FS+1d] | 2.4.3.2.8.1.4[SS]; 2.4.3.2.8.1.3[SS+3d]; 2.4.3.2.8.1.3[FF+6d]; 2.4.3.2.8.2.2[FS] |
| 2.4.3.2.8.1.3 | Ship PVC extrusions to module factory - Block 8 - Planes 1-16 | Complete | 8d | 10Feb12 23Feb12 | 30Jan12 08Feb12 | None | | None | | 2.4.3.2.8.1.2[SS+3d]; 2.4.3.2.7.2.3[FS]; 2.4.3.2.8.1.2[FF+6d] | 2.5.3.3.2.8.1.1[SS+1d]; 2.5.3.3.11.8[FS]; 2.5.3.3.7.8[SS+1d]; 2.4.3.2.8.2.3[FS] |
| 2.4.3.2.8.1.4 | Quality control and documentation of extrusions - Block 8 - Planes 1-16 | Complete | 8d | 03Feb12 17Feb12 | 20Jan12 31Jan12 | None | | None | | 2.4.3.2.8.1.2[SS]; 2.4.3.2.7.2.4[FS] | 2.4.3.2.8.2.4[FS] |
| 2.4.3.2.8.2 | Extrusions - Block 8 - Planes 17-32 | Complete | 129d | 29Aug11 06Mar12 | 14Nov11 20Feb12 | None | | None | | | |
| 2.4.3.2.8.2.1 | Obtain PVC resin - Block 8 - Planes 17-32 | Complete | 5d | 29Aug11 04Oct11 | 14Nov11 18Nov11 | None | | None | | 2.4.3.2.8.1.1[FS] | 2.4.3.2.8.2.2[FS+5d]; 2.4.3.2.9.1.1[FS] |
| 2.4.3.2.8.2.2 | Produce PVC extrusions - Block 8 - Planes 17-32 | Complete | 8d | 17Feb12 01Mar12 | 01Feb12 10Feb12 | None | | None | | 2.4.3.2.8.2.1[FS+5d]; 2.4.3.2.8.1.2[FS] | 2.4.3.2.8.2.4[SS]; 2.4.3.2.8.2.3[SS+3d]; 2.4.3.2.8.2.3[FF+6d]; 2.4.3.2.9.1.2[FS+1d] |
| 2.4.3.2.8.2.3 | Ship PVC extrusions to module factory - Block 8 - Planes 17-32 | Complete | 8d | 23Feb12 06Mar12 | 09Feb12 20Feb12 | None | | None | | 2.4.3.2.8.2.2[SS+3d]; 2.4.3.2.8.2.2[FF+6d]; 2.4.3.2.8.1.3[FS] | 2.5.3.3.7.8[FF+1d]; 2.5.3.3.2.8.2.1[SS+1d]; 2.4.3.2.9.1.3[FS] |
| 2.4.3.2.8.2.4 | Quality control and documentation of extrusions - Block 8 - Planes 17-32 | Complete | 8d | 17Feb12 01Mar12 | 01Feb12 10Feb12 | None | | None | | 2.4.3.2.8.2.2[SS]; 2.4.3.2.8.1.4[FS] | 2.4.3.2.9.1.4[FS] |
| 2.4.3.2.9 | Extrusion Production - Block 9 | Complete | 121d | 04Oct11 29Mar12 | 31Jan12 14Mar12 | None | | None | | | |
| 2.4.3.2.9.1 | Extrusions - Block 9 - Planes 1-16 | Complete | 112d | 04Oct11 16Mar12 | 31Jan12 02Mar12 | None | | None | | | |
| 2.4.3.2.9.1.1 | Obtain PVC resin - Block 9- Planes 1-16 | Complete | 5d | 04Oct11 06Oct11 | 31Jan12 06Feb12 | None | | None | | 2.4.3.2.8.2.1[FS] | 2.4.3.2.9.1.2[FS+5d]; 2.4.3.2.9.2.1[FS] |
| 2.4.3.2.9.1.2 | Produce PVC extrusions - Block 9 - Planes 1-16 | Complete | 8d | 01Mar12 09Mar12 | 14Feb12 23Feb12 | None | | None | | 2.4.3.2.9.1.1[FS+5d]; 2.4.3.2.8.2.2[FS+1d] | 2.4.3.2.9.1.3[SS+3d]; 2.4.3.2.9.1.4[SS]; 2.4.3.2.9.1.3[FF+6d]; 2.4.3.2.9.2.2[FS] |
| 2.4.3.2.9.1.3 | Ship PVC extrusions to module factory - Block 9 - Planes 1-16 | Complete | 8d | 08Mar12 16Mar12 | 22Feb12 02Mar12 | None | | None | | 2.4.3.2.9.1.2[SS+3d]; 2.4.3.2.9.1.2[FF+6d]; 2.4.3.2.8.2.3[FS] | 2.5.3.3.2.9.1.1[SS+1d]; 2.4.3.2.9.2.3[FS]; 2.5.3.3.11.9[FS]; 2.5.3.3.7.9[SS+1d] |
| 2.4.3.2.9.1.4 | Quality control and documentation of extrusions - Block 9 - Planes 1-16 | Complete | 8d | 01Mar12 09Mar12 | 14Feb12 23Feb12 | None | | None | | 2.4.3.2.9.1.2[SS]; 2.4.3.2.8.2.4[FS] | 2.4.3.2.9.2.4[FS] |
| 2.4.3.2.9.2 | Extrusions - Block 9 - Planes 17-32 | Complete | 103d | 28Oct11 29Mar12 | 10Feb12 14Mar12 | None | | None | | | |
| 2.4.3.2.9.2.1 | Obtain PVC resin - Block 9 - Planes 17-32 | Complete | 5d | 28Oct11 14Nov11 | 10Feb12 16Feb12 | None | | None | | 2.4.3.2.9.1.1[FS] | 2.4.3.2.9.2.2[FS+5d]; 2.4.3.2.10.1.1[FS] |
| 2.4.3.2.9.2.2 | Produce PVC extrusions - Block 9 - Planes 17-32 | Complete | 8d | 09Mar12 22Mar12 | 24Feb12 06Mar12 | None | | None | | 2.4.3.2.9.2.1[FS+5d]; 2.4.3.2.9.1.2[FS] | 2.4.3.2.9.2.3[SS+3d]; 2.4.3.2.9.2.4[SS]; 2.4.3.2.9.2.3[FF+6d]; 2.4.3.2.10.1.2[FS+1d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.9.2.3 | Ship PVC extrusions to module factory - Block 9 - Planes 17-32 | Complete | 8d | 19Mar12 29Mar12 | 05Mar12 14Mar12 | None | | None | | 2.4.3.2.9.2.2[SS+3d]; 2.4.3.2.9.1.3[FS]; 2.4.3.2.9.2.2[FF+6d] | 2.4.3.2.10.1.3[FS]; 2.5.3.3.7.9[FF+1d]; 2.5.3.3.2.9.2.1[SS+1d] |
| 2.4.3.2.9.2.4 | Quality control and documentation of extrusions - Block 9 - Planes 17-32 | Complete | 8d | 09Mar12 22Mar12 | 24Feb12 06Mar12 | None | | None | | 2.4.3.2.9.2.2[SS]; 2.4.3.2.9.1.4[FS] | 2.4.3.2.10.1.4[FS] |
| 2.4.3.2.10 | Extrusion Production - Block 10 | Complete | 115d | 21Nov11 08May12 | 23Feb12 06Apr12 | None | | None | | | |
| 2.4.3.2.10.1 | Extrusions - Block 10 - Planes 1-16 | Complete | 104d | 21Nov11 23Apr12 | 23Feb12 27Mar12 | None | | None | | | |
| 2.4.3.2.10.1.1 | Obtain PVC resin - Block 10 - Planes 1-16 | Complete | 5d | 21Nov11 28Nov11 | 23Feb12 29Feb12 | None | | None | | 2.4.3.2.9.2.1[FS] | 2.4.3.2.10.1.2[FS+5d]; 2.4.3.2.10.2.1[FS] |
| 2.4.3.2.10.1.2 | Produce PVC extrusions - Block 10 - Planes 1-16 | Complete | 8d | 22Mar12 18Apr12 | 08Mar12 19Mar12 | None | | None | | 2.4.3.2.10.1.1[FS+5d]; 2.4.3.2.9.2.2[FS+1d] | 2.4.3.2.10.1.3[SS+3d]; 2.4.3.2.10.1.4[SS]; 2.4.3.2.10.2.2[FS]; 2.4.3.2.10.1.3[FF+6d] |
| 2.4.3.2.10.1.3 | Ship PVC extrusions to module factory - Block 10 - Planes 1-16 | Complete | 8d | 29Mar12 23Apr12 | 16Mar12 27Mar12 | None | | None | | 2.4.3.2.10.1.2[SS+3d]; 2.4.3.2.9.2.3[FS]; 2.4.3.2.10.1.2[FF+6d] | 2.4.3.2.10.2.3[FS]; 2.5.3.3.11.10[FS]; 2.5.3.3.7.10[SS+1d]; 2.5.3.3.2.10.1.1[SS+1d] |
| 2.4.3.2.10.1.4 | Quality control and documentation of extrusions - Block 10 - Planes 1-16 | Complete | 8d | 22Mar12 18Apr12 | 08Mar12 19Mar12 | None | | None | | 2.4.3.2.10.1.2[SS]; 2.4.3.2.9.2.4[FS] | 2.4.3.2.10.2.4[FS] |
| 2.4.3.2.10.2 | Extrusions - Block 10 - Planes 17-32 | Complete | 112d | 28Nov11 08May12 | 06Mar12 06Apr12 | None | | None | | | |
| 2.4.3.2.10.2.1 | Obtain PVC resin - Block 10 - Planes 17-32 | Complete | 5d | 28Nov11 12Dec11 | 06Mar12 12Mar12 | None | | None | | 2.4.3.2.10.1.1[FS] | 2.4.3.2.10.2.2[FS+5d]; 2.4.3.2.11.1.1[FS] |
| 2.4.3.2.10.2.2 | Produce PVC extrusions - Block 10 - Planes 17-32 | Complete | 8d | 18Apr12 03May12 | 20Mar12 29Mar12 | None | | None | | 2.4.3.2.10.2.1[FS+5d]; 2.4.3.2.10.1.2[FS] | 2.4.3.2.10.2.3[SS+3d]; 2.4.3.2.44.3[FS]; 2.4.3.2.11.1.2[FS+1d]; 2.4.3.2.10.2.4[SS]; 2.4.3.2.10.2.3[FF+6d] |
| 2.4.3.2.10.2.3 | Ship PVC extrusions to module factory - Block 10 - Planes 17-32 | Complete | 8d | 23Apr12 08May12 | 28Mar12 06Apr12 | None | | None | | 2.4.3.2.10.2.2[SS+3d]; 2.4.3.2.10.1.3[FS]; 2.4.3.2.10.2.2[FF+6d] | 2.4.3.2.11.1.3[FS]; 2.5.3.3.7.10[FF+1d]; 2.5.3.3.2.10.2.1[SS+1d] |
| 2.4.3.2.10.2.4 | Quality control and documentation of extrusions - Block 10 - Planes 17-32 | Complete | 8d | 18Apr12 03May12 | 20Mar12 29Mar12 | None | | None | | 2.4.3.2.10.1.4[FS]; 2.4.3.2.10.2.2[SS] | 2.4.3.2.11.1.4[FS] |
| 2.4.3.2.11 | Extrusion Production - Block 11 | Complete | 119d | 12Dec11 01Jun12 | 19Mar12 01May12 | None | | None | | | |
| 2.4.3.2.11.1 | Extrusions - Block 11 - Planes 1-16 | Complete | 111d | 12Dec11 21May12 | 19Mar12 19Apr12 | None | | None | | | |
| 2.4.3.2.11.1.1 | Obtain PVC resin - Block 11 - Planes 1-16 | Complete | 5d | 12Dec11 19Dec11 | 19Mar12 23Mar12 | None | | None | | 2.4.3.2.10.2.1[FS] | 2.4.3.2.11.2.1[FS]; 2.4.3.2.11.1.2[FS+5d] |
| 2.4.3.2.11.1.2 | Produce PVC extrusions - Block 11 - Planes 1-16 | Complete | 8d | 03May12 16May12 | 02Apr12 11Apr12 | None | | None | | 2.4.3.2.11.1.1[FS+5d]; 2.4.3.2.10.2.2[FS+1d] | 2.4.3.2.11.1.4[SS]; 2.4.3.2.11.1.3[SS+3d]; 2.4.3.2.11.2.2[FS]; 2.4.3.2.11.1.3[FF+6d] |
| 2.4.3.2.11.1.3 | Ship PVC extrusions to module factory - Block 11 - Planes 1-16 | Complete | 8d | 09May12 21May12 | 10Apr12 19Apr12 | None | | None | | 2.4.3.2.10.2.3[FS]; 2.4.3.2.11.1.2[SS+3d]; 2.4.3.2.11.1.2[FF+6d] | 2.4.3.2.11.2.3[FS]; 2.5.3.3.11.11[FS]; 2.5.3.3.7.11[SS+1d]; 2.5.3.3.2.11.1.1[SS+1d] |
| 2.4.3.2.11.1.4 | Quality control and documentation of extrusions - Block 11 - Planes 1-16 | Complete | 8d | 03May12 16May12 | 02Apr12 11Apr12 | None | | None | | 2.4.3.2.11.1.2[SS]; 2.4.3.2.10.2.4[FS] | 2.4.3.2.11.2.4[FS] |
| 2.4.3.2.11.2 | Extrusions - Block 11 - Planes 17-32 | Complete | 114d | 19Dec11 01Jun12 | 29Mar12 01May12 | None | | None | | | |
| 2.4.3.2.11.2.1 | Obtain PVC resin - Block 11 - Planes 17-32 | Complete | 5d | 19Dec11 10Jan12 | 29Mar12 04Apr12 | None | | None | | 2.4.3.2.11.1.1[FS] | 2.4.3.2.11.2.2[FS+5d]; 2.4.3.2.12.1.1[FS] |
| 2.4.3.2.11.2.2 | Produce PVC extrusions - Block 11 - Planes 17-32 | Complete | 8d | 17May12 30May12 | 12Apr12 23Apr12 | None | | None | | 2.4.3.2.11.2.1[FS+5d]; 2.4.3.2.11.1.2[FS] | 2.4.3.2.11.2.3[SS+3d]; 2.4.3.2.11.2.4[SS]; 2.4.3.2.11.2.3[FF+6d]; 2.4.3.2.12.1.2[FS+1d] |
| 2.4.3.2.11.2.3 | Ship PVC extrusions to module factory - Block 11 - Planes 17-32 | Complete | 8d | 22May12 01Jun12 | 20Apr12 01May12 | None | | None | | 2.4.3.2.11.1.3[FS]; 2.4.3.2.11.2.2[SS+3d]; 2.4.3.2.11.2.2[FF+6d] | 2.5.3.3.7.11[FF+1d]; 2.4.3.2.12.1.3[FS]; 2.5.3.3.2.11.2.1[SS+1d] |
| 2.4.3.2.11.2.4 | Quality control and documentation of extrusions - Block 11 - Planes 17-32 | Complete | 8d | 17May12 30May12 | 12Apr12 23Apr12 | None | | None | | 2.4.3.2.11.2.2[SS]; 2.4.3.2.11.1.4[FS] | 2.4.3.2.12.1.4[FS] |
| 2.4.3.2.12 | Extrusion Production - Block 12 | Complete | 212d | 10Jan12 06Nov12 | 11Apr12 24May12 | None | | None | | | |
| 2.4.3.2.12.1 | Extrusions - Block 12 - Planes 1-16 | Complete | 113d | 10Jan12 18Jun12 | 11Apr12 14May12 | None | | None | | | |
| 2.4.3.2.12.1.1 | Obtain PVC resin - Block 12 - Planes 1-16 | Complete | 5d | 10Jan12 17Jan12 | 11Apr12 17Apr12 | None | | None | | 2.4.3.2.11.2.1[FS] | 2.4.3.2.12.1.2[FS+5d]; 2.4.3.2.12.2.1[FS] |
| 2.4.3.2.12.1.2 | Produce PVC extrusions - Block 12 - Planes 1-16 | Complete | 8d | 30May12 12Jun12 | 25Apr12 04May12 | None | | None | | 2.4.3.2.12.1.1[FS+5d]; 2.4.3.2.11.2.2[FS+1d] | 2.4.3.2.12.1.3[SS+3d]; 2.4.3.2.12.1.4[SS]; 2.4.3.2.12.1.3[FF+6d]; 2.4.3.2.12.2.2[FS] |
| 2.4.3.2.12.1.3 | Ship PVC extrusions to module factory - Block 12 - Planes 1-16 | Complete | 8d | 04Jun12 18Jun12 | 03May12 14May12 | None | | None | | 2.4.3.2.11.2.3[FS]; 2.4.3.2.12.1.2[SS+3d]; 2.4.3.2.12.1.2[FF+6d] | 2.4.3.2.12.2.3[FS]; 2.5.3.3.11.12[FS]; 2.5.3.3.7.12[SS+1d]; 2.5.3.3.2.12.1.1[SS+1d] |
| 2.4.3.2.12.1.4 | Quality control and documentation of extrusions - Block 12 - Planes 1-16 | Complete | 8d | 30May12 12Jun12 | 25Apr12 04May12 | None | | None | | 2.4.3.2.12.1.2[SS]; 2.4.3.2.11.2.4[FS] | 2.4.3.2.12.2.4[FS] |
| 2.4.3.2.12.2 | Extrusions - Block 12 - Planes 17-32 | Complete | 203d | 24Jan12 06Nov12 | 23Apr12 24May12 | None | | None | | | |
| 2.4.3.2.12.2.1 | Obtain PVC resin - Block 12 - Planes 17-32 | Complete | 5d | 24Jan12 03Feb12 | 23Apr12 27Apr12 | None | | None | | 2.4.3.2.12.1.1[FS] | 2.4.3.2.12.2.2[FS+5d]; 2.4.3.2.13.1.1[FS] |
| 2.4.3.2.12.2.2 | Produce PVC extrusions - Block 12 - Planes 17-32 | Complete | 8d | 12Jun12 28Jun12 | 07May12 16May12 | None | | None | | 2.4.3.2.12.2.1[FS+5d]; 2.4.3.2.12.1.2[FS] | 2.4.3.2.13.1.2[FS+1d]; 2.4.3.2.12.2.3[SS+3d]; 2.4.3.2.12.2.4[SS]; 2.4.3.2.12.2.3[FF+6d] |
| 2.4.3.2.12.2.3 | Ship PVC extrusions to module factory - Block 12 - Planes 17-32 | Complete | 8d | 20Jun12 06Nov12 | 15May12 24May12 | None | | None | | 2.4.3.2.12.1.3[FS]; 2.4.3.2.12.2.2[SS+3d]; 2.4.3.2.12.2.2[FF+6d] | 2.4.3.2.13.1.3[FS]; 2.5.3.3.7.12[FF+1d]; 2.5.3.3.2.12.2.1[SS+1d] |
| 2.4.3.2.12.2.4 | Quality control and documentation of extrusions - Block 12 - Planes 17-32 | Complete | 8d | 12Jun12 28Jun12 | 07May12 16May12 | None | | None | | 2.4.3.2.12.2.2[SS]; 2.4.3.2.12.1.4[FS] | 2.4.3.2.13.1.4[FS] |
| 2.4.3.2.13 | Extrusion Production - Block 13 | Complete | 217d | 03Feb12 10Dec12 | 04May12 19Jun12 | None | | None | | | |
| 2.4.3.2.13.1 | Extrusions - Block 13 - Planes 1-16 | Complete | 205d | 03Feb12 20Nov12 | 04May12 07Jun12 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.13.1.1 | Obtain PVC resin - Block 13 - Planes 1-16 | Complete | 5d | 03Feb12 17Feb12 | 04May12 10May12 | None | | None | | 2.4.3.2.12.2.1[FS] | 2.4.3.2.13.1.2[FS+5d]; 2.4.3.2.13.2.1[FS] |
| 2.4.3.2.13.1.2 | Produce PVC extrusions - Block 13 - Planes 1-16 | Complete | 8d | 28Jun12 16Jul12 | 18May12 30May12 | None | | None | | 2.4.3.2.12.2.2[FS+1d]; 2.4.3.2.13.1.1[FS+5d] | 2.4.3.2.13.1.3[SS+3d]; 2.4.3.2.13.1.4[SS]; 2.4.3.2.13.2.2[FS]; 2.4.3.2.13.1.3[FF+6d] |
| 2.4.3.2.13.1.3 | Ship PVC extrusions to module factory - Block 13 - Planes 1-16 | Complete | 8d | 08Nov12 20Nov12 | 29May12 07Jun12 | None | | None | | 2.4.3.2.12.2.3[FS]; 2.4.3.2.13.1.2[SS+3d]; 2.4.3.2.13.1.2[FF+6d] | 2.5.3.3.7.13[SS+1d]; 2.4.3.2.13.2.3[FS]; 2.5.3.3.11.13[FS]; 2.5.3.3.2.13.1.1[SS+1d] |
| 2.4.3.2.13.1.4 | Quality control and documentation of extrusions - Block 13 - Planes 1-16 | Complete | 8d | 28Jun12 16Jul12 | 18May12 30May12 | None | | None | | 2.4.3.2.13.1.2[SS]; 2.4.3.2.12.2.4[FS] | 2.4.3.2.13.2.4[FS] |
| 2.4.3.2.13.2 | Extrusions - Block 13 - Planes 17-32 | Complete | 207d | 17Feb12 10Dec12 | 16May12 19Jun12 | None | | None | | | |
| 2.4.3.2.13.2.1 | Obtain PVC resin - Block 13 - Planes 17-32 | Complete | 5d | 17Feb12 08Mar12 | 16May12 22May12 | None | | None | | 2.4.3.2.13.1.1[FS] | 2.4.3.2.13.2.2[FS+5d]; 2.4.3.2.14.1.1[FS] |
| 2.4.3.2.13.2.2 | Produce PVC extrusions - Block 13 - Planes 17-32 | Complete | 8d | 16Jul12 02Aug12 | 31May12 11Jun12 | None | | None | | 2.4.3.2.13.2.1[FS+5d]; 2.4.3.2.13.1.2[FS] | 2.4.3.2.13.2.3[SS+3d]; 2.4.3.2.13.2.4[SS]; 2.4.3.2.14.1.2[FS+1d]; 2.4.3.2.13.2.3[FF+6d] |
| 2.4.3.2.13.2.3 | Ship PVC extrusions to module factory - Block 13 - Planes 17-32 | Complete | 8d | 22Nov12 10Dec12 | 08Jun12 19Jun12 | None | | None | | 2.4.3.2.13.1.3[FS]; 2.4.3.2.13.2.2[SS+3d]; 2.4.3.2.13.2.2[FF+6d] | 2.5.3.3.7.13[FF+1d]; 2.4.3.2.14.1.3[FS]; 2.5.3.3.2.13.2.1[SS+1d] |
| 2.4.3.2.13.2.4 | Quality control and documentation of extrusions - Block 13 - Planes 17-32 | Complete | 8d | 16Jul12 02Aug12 | 31May12 11Jun12 | None | | None | | 2.4.3.2.13.2.2[SS]; 2.4.3.2.13.1.4[FS] | 2.4.3.2.14.1.4[FS] |
| 2.4.3.2.14 | Extrusion Production - Block 14 | Complete | 219d | 08Mar12 22Jan13 | 30May12 13Jul12 | None | | None | | | |
| 2.4.3.2.14.1 | Extrusions - Block 14 - Planes 1-16 | Complete | 210d | 08Mar12 08Jan13 | 30May12 02Jul12 | None | | None | | | |
| 2.4.3.2.14.1.1 | Obtain PVC resin - Block 14 - Planes 1-16 | Complete | 5d | 08Mar12 15Mar12 | 30May12 05Jun12 | None | | None | | 2.4.3.2.13.2.1[FS] | 2.4.3.2.14.1.2[FS+5d]; 2.4.3.2.14.2.1[FS] |
| 2.4.3.2.14.1.2 | Produce PVC extrusions - Block 14 - Planes 1-16 | Complete | 8d | 02Aug12 17Aug12 | 13Jun12 22Jun12 | None | | None | | 2.4.3.2.14.1.1[FS+5d]; 2.4.3.2.13.2.2[FS+1d] | 2.4.3.2.14.1.3[FF+6d]; 2.4.3.2.14.1.4[SS]; 2.4.3.2.14.1.3[SS+3d]; 2.4.3.2.14.2.2[FS] |
| 2.4.3.2.14.1.3 | Ship PVC extrusions to module factory - Block 14 - Planes 1-16 | Complete | 8d | 12Dec12 08Jan13 | 21Jun12 02Jul12 | None | | None | | 2.4.3.2.13.2.3[FS]; 2.4.3.2.14.1.2[FF+6d]; 2.4.3.2.14.1.2[SS+3d] | 2.5.3.3.7.14[SS+1d]; 2.4.3.2.14.2.3[FS]; 2.5.3.3.11.14[FS]; 2.5.3.3.2.14.1.1[SS+1d] |
| 2.4.3.2.14.1.4 | Quality control and documentation of extrusions - Block 14 - Planes 1-16 | Complete | 8d | 02Aug12 17Aug12 | 13Jun12 22Jun12 | None | | None | | 2.4.3.2.14.1.2[SS]; 2.4.3.2.13.2.4[FS] | 2.4.3.2.14.2.4[FS] |
| 2.4.3.2.14.2 | Extrusions - Block 14 - Planes 17-32 | Complete | 209d | 22Mar12 22Jan13 | 11Jun12 13Jul12 | None | | None | | | |
| 2.4.3.2.14.2.1 | Obtain PVC resin - Block 14 - Planes 17-32 | Complete | 5d | 22Mar12 10Apr12 | 11Jun12 15Jun12 | None | | None | | 2.4.3.2.14.1.1[FS] | 2.4.3.2.15.1.1[FS]; 2.4.3.2.14.2.2[FS+5d] |
| 2.4.3.2.14.2.2 | Produce PVC extrusions - Block 14 - Planes 17-32 | Complete | 8d | 17Aug12 05Sep12 | 25Jun12 05Jul12 | None | | None | | 2.4.3.2.14.2.1[FS+5d]; 2.4.3.2.14.1.2[FS] | 2.4.3.2.14.2.3[FF+6d]; 2.4.3.2.15.1.2[FS+1d]; 2.4.3.2.14.2.4[SS]; 2.4.3.2.14.2.3[SS+3d] |
| 2.4.3.2.14.2.3 | Ship PVC extrusions to module factory - Block 14 - Planes 17-32 | Complete | 8d | 10Jan13 22Jan13 | 03Jul12 13Jul12 | None | | None | | 2.4.3.2.14.1.3[FS]; 2.4.3.2.14.2.2[FF+6d]; 2.4.3.2.14.2.2[SS+3d] | 2.5.3.3.2.14.2.1[SS+1d]; 2.5.3.3.7.14[FF+1d]; 2.4.3.2.15.1.3[FS] |
| 2.4.3.2.14.2.4 | Quality control and documentation of extrusions - Block 14 - Planes 17-32 | Complete | 8d | 17Aug12 05Sep12 | 25Jun12 05Jul12 | None | | None | | 2.4.3.2.14.2.2[SS]; 2.4.3.2.14.1.4[FS] | 2.4.3.2.15.1.4[FS] |
| 2.4.3.2.15 | Extrusion Production - Block 15 | Complete | 213d | 10Apr12 14Feb13 | 22Jun12 07Aug12 | None | | None | | | |
| 2.4.3.2.15.1 | Extrusions - Block 15 - Planes 1-16 | Complete | 206d | 10Apr12 05Feb13 | 22Jun12 26Jul12 | None | | None | | | |
| 2.4.3.2.15.1.1 | Obtain PVC resin - Block 15 - Planes 1-16 | Complete | 5d | 10Apr12 23Apr12 | 22Jun12 28Jun12 | None | | None | | 2.4.3.2.14.2.1[FS] | 2.4.3.2.15.2.1[FS]; 2.4.3.2.15.1.2[FS+5d] |
| 2.4.3.2.15.1.2 | Produce PVC extrusions - Block 15 - Planes 1-16 | Complete | 8d | 05Sep12 20Sep12 | 09Jul12 18Jul12 | None | | None | | 2.4.3.2.14.2.2[FS+1d]; 2.4.3.2.15.1.1[FS+5d] | 2.4.3.2.15.1.3[FF+6d]; 2.4.3.2.15.1.3[SS+3d]; 2.4.3.2.15.1.4[SS]; 2.4.3.2.15.2.2[FS] |
| 2.4.3.2.15.1.3 | Ship PVC extrusions to module factory - Block 15 - Planes 1-16 | Complete | 8d | 23Jan13 05Feb13 | 17Jul12 26Jul12 | None | | None | | 2.4.3.2.15.1.2[FF+6d]; 2.4.3.2.14.2.3[FS]; 2.4.3.2.15.1.2[SS+3d] | 2.4.3.2.15.2.3[FS]; 2.5.3.3.11.15[FS]; 2.5.3.3.7.15[SS+1d]; 2.5.3.3.2.15.1.1[SS+1d] |
| 2.4.3.2.15.1.4 | Quality control and documentation of extrusions - Block 15 - Planes 1-16 | Complete | 8d | 05Sep12 20Sep12 | 09Jul12 18Jul12 | None | | None | | 2.4.3.2.15.1.2[SS]; 2.4.3.2.14.2.4[FS] | 2.4.3.2.15.2.4[FS] |
| 2.4.3.2.15.2 | Extrusions - Block 15 - Planes 17-32 | Complete | 204d | 23Apr12 14Feb13 | 05Jul12 07Aug12 | None | | None | | | |
| 2.4.3.2.15.2.1 | Obtain PVC resin - Block 15 - Planes 17-32 | Complete | 5d | 23Apr12 07May12 | 05Jul12 11Jul12 | None | | None | | 2.4.3.2.15.1.1[FS] | 2.4.3.2.16.1.1[FS]; 2.4.3.2.15.2.2[FS+5d] |
| 2.4.3.2.15.2.2 | Produce PVC extrusions - Block 15 - Planes 17-32 | Complete | 8d | 20Sep12 04Oct12 | 19Jul12 30Jul12 | None | | None | | 2.4.3.2.15.2.1[FS+5d]; 2.4.3.2.15.1.2[FS] | 2.4.3.2.44.4[FS]; 2.4.3.2.15.2.4[SS]; 2.4.3.2.15.2.3[SS+3d]; 2.4.3.2.16.1.2[FS+1d]; 2.4.3.2.15.2.3[FF+6d] |
| 2.4.3.2.15.2.3 | Ship PVC extrusions to module factory - Block 15 - Planes 17-32 | Complete | 8d | 07Feb13 14Feb13 | 27Jul12 07Aug12 | None | | None | | 2.4.3.2.15.1.3[FS]; 2.4.3.2.15.2.2[SS+3d]; 2.4.3.2.15.2.2[FF+6d] | 2.5.3.3.7.15[FF+1d]; 2.5.3.3.2.15.2.1[SS+1d]; 2.4.3.2.16.1.3[FS] |
| 2.4.3.2.15.2.4 | Quality control and documentation of extrusions - Block 15 - Planes 17-32 | Complete | 8d | 20Sep12 04Oct12 | 19Jul12 30Jul12 | None | | None | | 2.4.3.2.15.1.4[FS]; 2.4.3.2.15.2.2[SS] | 2.4.3.2.16.1.4[FS] |
| 2.4.3.2.16 | Extrusion Production - Block 16 | Complete | 208d | 07May12 06Mar13 | 18Jul12 30Aug12 | None | | None | | | |
| 2.4.3.2.16.1 | Extrusions - Block 16 - Planes 1-16 | Complete | 201d | 07May12 25Feb13 | 18Jul12 20Aug12 | None | | None | | | |
| 2.4.3.2.16.1.1 | Obtain PVC resin - Block 16 - Planes 1-16 | Complete | 5d | 07May12 09May12 | 18Jul12 24Jul12 | None | | None | | 2.4.3.2.15.2.1[FS] | 2.4.3.2.16.2.1[FS]; 2.4.3.2.16.1.2[FS+5d] |
| 2.4.3.2.16.1.2 | Produce PVC extrusions - Block 16 - Planes 1-16 | Complete | 8d | 04Oct12 19Oct12 | 01Aug12 10Aug12 | None | | None | | 2.4.3.2.16.1.1[FS+5d]; 2.4.3.2.15.2.2[FS+1d] | 2.4.3.2.16.1.4[SS]; 2.4.3.2.16.1.3[SS+3d]; 2.4.3.2.16.2.2[FS]; 2.4.3.2.16.1.3[FF+6d] |
| 2.4.3.2.16.1.3 | Ship PVC extrusions to module factory - Block 16 - Planes 1-16 | Complete | 8d | 14Feb13 25Feb13 | 09Aug12 20Aug12 | None | | None | | 2.4.3.2.15.2.3[FS]; 2.4.3.2.16.1.2[SS+3d]; 2.4.3.2.16.1.2[FF+6d] | 2.4.3.2.16.2.3[FS]; 2.5.3.3.11.16[FS]; 2.5.3.3.7.16[SS+1d]; 2.5.3.3.2.16.1.1[SS+1d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.16.1.4 | Quality control and documentation of extrusions - Block 16 - Planes 1-16 | Complete | 8d | 04Oct12 19Oct12 | 01Aug12 10Aug12 | None | | None | | 2.4.3.2.15.2.4[FS]; 2.4.3.2.16.1.2[SS] | 2.4.3.2.16.2.4[FS] |
| 2.4.3.2.16.2 | Extrusions - Block 16 - Planes 17-32 | Complete | 201d | 16May12 06Mar13 | 30Jul12 30Aug12 | None | | None | | | |
| 2.4.3.2.16.2.1 | Obtain PVC resin - Block 16 - Planes 17-32 | Complete | 5d | 16May12 18May12 | 30Jul12 03Aug12 | None | | None | | 2.4.3.2.16.1.1[FS] | 2.4.3.2.16.2.2[FS+5d]; 2.4.3.2.17.1.1[FS] |
| 2.4.3.2.16.2.2 | Produce PVC extrusions - Block 16 - Planes 17-32 | Complete | 8d | 19Oct12 08Nov12 | 13Aug12 22Aug12 | None | | None | | 2.4.3.2.16.2.1[FS+5d]; 2.4.3.2.16.1.2[FS] | 2.4.3.2.17.1.2[FS+1d]; 2.4.3.2.16.2.3[SS+3d]; 2.4.3.2.16.2.4[SS]; 2.4.3.2.16.2.3[FF+6d] |
| 2.4.3.2.16.2.3 | Ship PVC extrusions to module factory - Block 16 - Planes 17-32 | Complete | 8d | 26Feb13 06Mar13 | 21Aug12 30Aug12 | None | | None | | 2.4.3.2.16.1.3[FS]; 2.4.3.2.16.2.2[SS+3d]; 2.4.3.2.16.2.2[FF+6d] | 2.5.3.3.2.16.2.1[SS+1d]; 2.5.3.3.7.16[FF+1d]; 2.4.3.2.17.1.3[FS] |
| 2.4.3.2.16.2.4 | Quality control and documentation of extrusions - Block 16 - Planes 17-32 | Complete | 8d | 19Oct12 08Nov12 | 13Aug12 22Aug12 | None | | None | | 2.4.3.2.16.1.4[FS]; 2.4.3.2.16.2.2[SS] | 2.4.3.2.17.1.4[FS] |
| 2.4.3.2.17 | Extrusion Production - Block 17 | Complete | 212d | 18May12 25Mar13 | 10Aug12 25Sep12 | None | | None | | | |
| 2.4.3.2.17.1 | Extrusions - Block 17 - Planes 1-16 | Complete | 206d | 18May12 15Mar13 | 10Aug12 13Sep12 | None | | None | | | |
| 2.4.3.2.17.1.1 | Obtain PVC resin - Block 17 - Planes 1-16 | Complete | 5d | 18May12 14Jun12 | 10Aug12 16Aug12 | None | | None | | 2.4.3.2.16.2.1[FS] | 2.4.3.2.17.2.1[FS]; 2.4.3.2.17.1.2[FS+5d] |
| 2.4.3.2.17.1.2 | Produce PVC extrusions - Block 17 - Planes 1-16 | Complete | 8d | 08Nov12 21Nov12 | 24Aug12 05Sep12 | None | | None | | 2.4.3.2.16.2.2[FS+1d]; 2.4.3.2.17.1.1[FS+5d] | 2.4.3.2.17.1.4[SS]; 2.4.3.2.17.1.3[SS+3d]; 2.4.3.2.17.2.2[FS]; 2.4.3.2.17.1.3[FF+6d] |
| 2.4.3.2.17.1.3 | Ship PVC extrusions to module factory - Block 17 - Planes 1-16 | Complete | 8d | 06Mar13 15Mar13 | 04Sep12 13Sep12 | None | | None | | 2.4.3.2.17.1.2[SS+3d]; 2.4.3.2.17.1.2[FF+6d]; 2.4.3.2.16.2.3[FS] | 2.5.3.3.2.17.1.1[SS+1d]; 2.5.3.3.11.17[FS]; 2.5.3.3.7.17[SS+1d]; 2.4.3.2.17.2.3[FS] |
| 2.4.3.2.17.1.4 | Quality control and documentation of extrusions - Block 17 - Planes 1-16 | Complete | 8d | 08Nov12 21Nov12 | 24Aug12 05Sep12 | None | | None | | 2.4.3.2.16.2.4[FS]; 2.4.3.2.17.1.2[SS] | 2.4.3.2.17.2.4[FS] |
| 2.4.3.2.17.2 | Extrusions - Block 17 - Planes 17-32 | Complete | 193d | 15Jun12 25Mar13 | 22Aug12 25Sep12 | None | | None | | | |
| 2.4.3.2.17.2.1 | Obtain PVC resin - Block 17 - Planes 17-32 | Complete | 5d | 15Jun12 18Jun12 | 22Aug12 28Aug12 | None | | None | | 2.4.3.2.17.1.1[FS] | 2.4.3.2.18.1.1[FS]; 2.4.3.2.17.2.2[FS+5d] |
| 2.4.3.2.17.2.2 | Produce PVC extrusions - Block 17 - Planes 17-32 | Complete | 8d | 21Nov12 07Dec12 | 06Sep12 17Sep12 | None | | None | | 2.4.3.2.17.2.1[FS+5d]; 2.4.3.2.17.1.2[FS] | 2.4.3.2.17.2.4[SS]; 2.4.3.2.17.2.3[SS+3d]; 2.4.3.2.18.1.2[FS+1d]; 2.4.3.2.17.2.3[FF+6d] |
| 2.4.3.2.17.2.3 | Ship PVC extrusions to module factory - Block 17 - Planes 17-32 | Complete | 8d | 15Mar13 25Mar13 | 14Sep12 25Sep12 | None | | None | | 2.4.3.2.17.2.2[SS+3d]; 2.4.3.2.17.2.2[FF+6d]; 2.4.3.2.17.1.3[FS] | 2.5.3.3.7.17[FF+1d]; 2.5.3.3.2.17.2.1[SS+1d]; 2.4.3.2.18.1.3[FS] |
| 2.4.3.2.17.2.4 | Quality control and documentation of extrusions - Block 17 - Planes 17-32 | Complete | 8d | 21Nov12 07Dec12 | 06Sep12 17Sep12 | None | | None | | 2.4.3.2.17.1.4[FS]; 2.4.3.2.17.2.2[SS] | 2.4.3.2.18.1.4[FS] |
| 2.4.3.2.18 | Extrusion Production - Block 18 | Complete | 202d | 18Jun12 08Apr13 | 05Sep12 18Oct12 | None | | None | | | |
| 2.4.3.2.18.1 | Extrusions - Block 18 - Planes 1-16 | Complete | 196d | 18Jun12 29Mar13 | 05Sep12 08Oct12 | None | | None | | | |
| 2.4.3.2.18.1.1 | Obtain PVC resin - Block 18 - Planes 1-16 | Complete | 5d | 18Jun12 16Jul12 | 05Sep12 11Sep12 | None | | None | | 2.4.3.2.17.2.1[FS] | 2.4.3.2.18.2.1[FS]; 2.4.3.2.18.1.2[FS+5d] |
| 2.4.3.2.18.1.2 | Produce PVC extrusions - Block 18 - Planes 1-16 | Complete | 8d | 07Dec12 04Jan13 | 19Sep12 28Sep12 | None | | None | | 2.4.3.2.17.2.2[FS+1d]; 2.4.3.2.18.1.1[FS+5d] | 2.4.3.2.18.1.3[SS+3d]; 2.4.3.2.18.2.2[FS]; 2.4.3.2.18.1.4[SS]; 2.4.3.2.18.1.3[FF+6d] |
| 2.4.3.2.18.1.3 | Ship PVC extrusions to module factory - Block 18 - Planes 1-16 | Complete | 8d | 25Mar13 29Mar13 | 27Sep12 08Oct12 | None | | None | | 2.4.3.2.18.1.2[SS+3d]; 2.4.3.2.18.1.2[FF+6d]; 2.4.3.2.17.2.3[FS] | 2.5.3.3.11.18[FS]; 2.5.3.3.7.18[SS+1d]; 2.5.3.3.2.18.1.1[SS+1d]; 2.4.3.2.18.2.3[FS] |
| 2.4.3.2.18.1.4 | Quality control and documentation of extrusions - Block 18 - Planes 1-16 | Complete | 8d | 07Dec12 04Jan13 | 19Sep12 28Sep12 | None | | None | | 2.4.3.2.17.2.4[FS]; 2.4.3.2.18.1.2[SS] | 2.4.3.2.18.2.4[FS] |
| 2.4.3.2.18.2 | Extrusions - Block 18 - Planes 17-32 | Complete | 183d | 16Jul12 08Apr13 | 17Sep12 18Oct12 | None | | None | | | |
| 2.4.3.2.18.2.1 | Obtain PVC resin - Block 18 - Planes 17-32 | Complete | 5d | 16Jul12 24Jul12 | 17Sep12 21Sep12 | None | | None | | 2.4.3.2.18.1.1[FS] | 2.4.3.2.19.1.1[FS]; 2.4.3.2.18.2.2[FS+5d] |
| 2.4.3.2.18.2.2 | Produce PVC extrusions - Block 18 - Planes 17-32 | Complete | 8d | 04Jan13 21Jan13 | 01Oct12 10Oct12 | None | | None | | 2.4.3.2.18.1.2[FS]; 2.4.3.2.18.2.1[FS+5d] | 2.4.3.2.19.1.2[FS+1d]; 2.4.3.2.18.2.3[FF+6d]; 2.4.3.2.18.2.4[SS]; 2.4.3.2.18.2.3[SS+3d] |
| 2.4.3.2.18.2.3 | Ship PVC extrusions to module factory - Block 18 - Planes 17-32 | Complete | 8d | 29Mar13 08Apr13 | 09Oct12 18Oct12 | None | | None | | 2.4.3.2.18.2.2[FF+6d]; 2.4.3.2.18.2.2[SS+3d]; 2.4.3.2.18.1.3[FS] | 2.4.3.2.19.1.3[FS]; 2.5.3.3.2.18.2.1[SS+1d]; 2.5.3.3.7.18[FF+1d] |
| 2.4.3.2.18.2.4 | Quality control and documentation of extrusions - Block 18 - Planes 17-32 | Complete | 8d | 04Jan13 21Jan13 | 01Oct12 10Oct12 | None | | None | | 2.4.3.2.18.1.4[FS]; 2.4.3.2.18.2.2[SS] | 2.4.3.2.19.1.4[FS] |
| 2.4.3.2.19 | Extrusion Production - Block 19 | Complete | 186d | 24Jul12 19Apr13 | 28Sep12 12Nov12 | None | | None | | | |
| 2.4.3.2.19.1 | Extrusions - Block 19 - Planes 1-16 | Complete | 182d | 24Jul12 15Apr13 | 28Sep12 31Oct12 | None | | None | | | |
| 2.4.3.2.19.1.1 | Obtain PVC resin - Block 19 - Planes 1-16 | Complete | 5d | 24Jul12 15Aug12 | 28Sep12 04Oct12 | None | | None | | 2.4.3.2.18.2.1[FS] | 2.4.3.2.19.2.1[FS]; 2.4.3.2.19.1.2[FS+5d] |
| 2.4.3.2.19.1.2 | Produce PVC extrusions - Block 19 - Planes 1-16 | Complete | 8d | 21Jan13 04Feb13 | 12Oct12 23Oct12 | None | | None | | 2.4.3.2.18.2.2[FS+1d]; 2.4.3.2.19.1.1[FS+5d] | 2.4.3.2.19.1.4[SS]; 2.4.3.2.19.1.3[FF+6d]; 2.4.3.2.19.2.2[FS]; 2.4.3.2.19.1.3[SS+3d] |
| 2.4.3.2.19.1.3 | Ship PVC extrusions to module factory - Block 19 - Planes 1-16 | Complete | 8d | 08Apr13 15Apr13 | 22Oct12 31Oct12 | None | | None | | 2.4.3.2.18.2.3[FS]; 2.4.3.2.19.1.2[FF+6d]; 2.4.3.2.19.1.2[SS+3d] | 2.5.3.3.11.19[FS]; 2.4.3.2.19.2.3[FS]; 2.5.3.3.7.19[SS+1d]; 2.5.3.3.2.19.1.1[SS+1d] |
| 2.4.3.2.19.1.4 | Quality control and documentation of extrusions - Block 19 - Planes 1-16 | Complete | 8d | 21Jan13 04Feb13 | 12Oct12 23Oct12 | None | | None | | 2.4.3.2.19.1.2[SS]; 2.4.3.2.18.2.4[FS] | 2.4.3.2.19.2.4[FS] |
| 2.4.3.2.19.2 | Extrusions - Block 19 - Planes 17-32 | Complete | 170d | 15Aug12 19Apr13 | 10Oct12 12Nov12 | None | | None | | | |
| 2.4.3.2.19.2.1 | Obtain PVC resin - Block 19 - Planes 17-32 | Complete | 5d | 15Aug12 17Sep12 | 10Oct12 16Oct12 | None | | None | | 2.4.3.2.19.1.1[FS] | 2.4.3.2.19.2.2[FS+5d]; 2.4.3.2.20.1.1[FS] |
| 2.4.3.2.19.2.2 | Produce PVC extrusions - Block 19 - Planes 17-32 | Complete | 8d | 04Feb13 15Feb13 | 24Oct12 02Nov12 | None | | None | | 2.4.3.2.19.2.1[FS+5d]; 2.4.3.2.19.1.2[FS] | 2.4.3.2.19.2.4[SS]; 2.4.3.2.19.2.3[SS+3d]; 2.4.3.2.19.2.3[FF+6d]; 2.4.3.2.20.1.2[FS+1d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.19.2.3 | Ship PVC extrusions to module factory - Block 19 - Planes 17-32 | Complete | 8d | 16Apr13 19Apr13 | 01Nov12 12Nov12 | None | | None | | 2.4.3.2.19.1.3[FS]; 2.4.3.2.19.2.2[SS+3d]; 2.4.3.2.19.2.2[FF+6d] | 2.4.3.2.20.1.3[FS]; 2.5.3.3.7.19[FF+1d]; 2.5.3.3.2.19.2.1[SS+1d] |
| 2.4.3.2.19.2.4 | Quality control and documentation of extrusions - Block 19 - Planes 17-32 | Complete | 8d | 04Feb13 15Feb13 | 24Oct12 02Nov12 | None | | None | | 2.4.3.2.19.2.2[SS]; 2.4.3.2.19.1.4[FS] | 2.4.3.2.20.1.4[FS] |
| 2.4.3.2.20 | Extrusion Production - Block 20 | Complete | 162d | 17Sep12 09May13 | 23Oct12 07Dec12 | None | | None | | | |
| 2.4.3.2.20.1 | Extrusions - Block 20 - Planes 1-16 | Complete | 153d | 17Sep12 26Apr13 | 23Oct12 27Nov12 | None | | None | | | |
| 2.4.3.2.20.1.1 | Obtain PVC resin - Block 20 - Planes 1-16 | Complete | 5d | 17Sep12 08Oct12 | 23Oct12 29Oct12 | None | | None | | 2.4.3.2.19.2.1[FS] | 2.4.3.2.20.1.2[FS+5d]; 2.4.3.2.20.2.1[FS] |
| 2.4.3.2.20.1.2 | Produce PVC extrusions - Block 20 - Planes 1-16 | Complete | 8d | 15Feb13 01Mar13 | 06Nov12 15Nov12 | None | | None | | 2.4.3.2.20.1.1[FS+5d]; 2.4.3.2.19.2.2[FS+1d] | 2.4.3.2.20.1.3[SS+3d]; 2.4.3.2.20.1.4[SS]; 2.4.3.2.20.1.3[FF+6d]; 2.4.3.2.20.2.2[FS] |
| 2.4.3.2.20.1.3 | Ship PVC extrusions to module factory - Block 20 - Planes 1-16 | Complete | 8d | 19Apr13 26Apr13 | 14Nov12 27Nov12 | None | | None | | 2.4.3.2.19.2.3[FS]; 2.4.3.2.20.1.2[SS+3d]; 2.4.3.2.20.1.2[FF+6d] | 2.5.3.3.11.20[FS]; 2.5.3.3.7.20[SS+1d]; 2.5.3.3.2.20.1.1[SS+1d]; 2.4.3.2.20.2.3[FS] |
| 2.4.3.2.20.1.4 | Quality control and documentation of extrusions - Block 20 - Planes 1-16 | Complete | 8d | 15Feb13 01Mar13 | 06Nov12 15Nov12 | None | | None | | 2.4.3.2.20.1.2[SS]; 2.4.3.2.19.2.4[FS] | 2.4.3.2.20.2.4[FS] |
| 2.4.3.2.20.2 | Extrusions - Block 20 - Planes 17-32 | Complete | 147d | 08Oct12 09May13 | 02Nov12 07Dec12 | None | | None | | | |
| 2.4.3.2.20.2.1 | Obtain PVC resin - Block 20 - Planes 17-32 | Complete | 5d | 08Oct12 09Oct12 | 02Nov12 08Nov12 | None | | None | | 2.4.3.2.20.1.1[FS] | 2.4.3.2.21.1.1[FS]; 2.4.3.2.20.2.2[FS+5d] |
| 2.4.3.2.20.2.2 | Produce PVC extrusions - Block 20 - Planes 17-32 | Complete | 8d | 01Mar13 14Mar13 | 16Nov12 29Nov12 | None | | None | | 2.4.3.2.20.2.1[FS+5d]; 2.4.3.2.20.1.2[FS] | 2.4.3.2.44.5[FS]; 2.4.3.2.20.2.3[SS+3d]; 2.4.3.2.20.2.4[SS]; 2.4.3.2.21.1.2[FS+1d]; 2.4.3.2.20.2.3[FF+6d] |
| 2.4.3.2.20.2.3 | Ship PVC extrusions to module factory - Block 20 - Planes 17-32 | Complete | 8d | 26Apr13 09May13 | 28Nov12 07Dec12 | None | | None | | 2.4.3.2.20.2.2[SS+3d]; 2.4.3.2.20.2.2[FF+6d]; 2.4.3.2.20.1.3[FS] | 2.5.3.3.2.20.2.1[SS+1d]; 2.4.3.2.21.1.3[FS]; 2.5.3.3.7.20[FF+1d] |
| 2.4.3.2.20.2.4 | Quality control and documentation of extrusions - Block 20 - Planes 17-32 | Complete | 8d | 01Mar13 14Mar13 | 16Nov12 29Nov12 | None | | None | | 2.4.3.2.20.1.4[FS]; 2.4.3.2.20.2.2[SS] | 2.4.3.2.21.1.4[FS] |
| 2.4.3.2.21 | Extrusion Production - Block 21 | Complete | 157d | 09Oct12 24May13 | 15Nov12 07Jan13 | None | | None | | | |
| 2.4.3.2.21.1 | Extrusions - Block 21 - Planes 1-16 | Complete | 152d | 09Oct12 17May13 | 15Nov12 20Dec12 | None | | None | | | |
| 2.4.3.2.21.1.1 | Obtain PVC resin - Block 21 - Planes 1-16 | Complete | 5d | 09Oct12 22Oct12 | 15Nov12 21Nov12 | None | | None | | 2.4.3.2.20.2.1[FS] | 2.4.3.2.21.1.2[FS+5d] |
| 2.4.3.2.21.1.2 | Produce PVC extrusions - Block 21 - Planes 1-16 | Complete | 8d | 14Mar13 28Mar13 | 03Dec12 12Dec12 | None | | None | | 2.4.3.2.21.1.1[FS+5d]; 2.4.3.2.20.2.2[FS+1d] | 2.4.3.2.21.1.3[FF+6d]; 2.4.3.2.21.1.4[SS]; 2.4.3.2.21.1.3[SS+3d]; 2.4.3.2.21.2.2[FS] |
| 2.4.3.2.21.1.3 | Ship PVC extrusions to module factory - Block 21 - Planes 1-16 | Complete | 8d | 09May13 17May13 | 11Dec12 20Dec12 | None | | None | | 2.4.3.2.20.2.3[FS]; 2.4.3.2.21.1.2[FF+6d]; 2.4.3.2.21.1.2[SS+3d] | 2.5.3.3.11.21[FS]; 2.4.3.2.21.2.3[FS]; 2.5.3.3.7.21[SS+1d]; 2.5.3.3.2.21.1.1[SS+1d] |
| 2.4.3.2.21.1.4 | Quality control and documentation of extrusions - Block 21 - Planes 1-16 | Complete | 8d | 14Mar13 28Mar13 | 03Dec12 12Dec12 | None | | None | | 2.4.3.2.21.1.2[SS]; 2.4.3.2.20.2.4[FS] | 2.4.3.2.21.2.4[FS] |
| 2.4.3.2.21.2 | Extrusions - Block 21 - Planes 17-32 | Complete | 148d | 22Oct12 24May13 | 29Nov12 07Jan13 | None | | None | | | |
| 2.4.3.2.21.2.1 | Obtain PVC resin - Block 21 - Planes 17-32 | Complete | 5d | 22Oct12 08Nov12 | 29Nov12 05Dec12 | None | | None | | | 2.4.3.2.22.1.1[FS]; 2.4.3.2.21.2.2[FS+5d] |
| 2.4.3.2.21.2.2 | Produce PVC extrusions - Block 21 - Planes 17-32 | Complete | 8d | 28Mar13 10Apr13 | 13Dec12 26Dec12 | None | | None | | 2.4.3.2.21.2.1[FS+5d]; 2.4.3.2.21.1.2[FS] | 2.4.3.2.21.2.3[FF+6d]; 2.4.3.2.21.2.4[SS]; 2.4.3.2.21.2.3[SS+3d]; 2.4.3.2.22.1.2[FS+1d] |
| 2.4.3.2.21.2.3 | Ship PVC extrusions to module factory - Block 21 - Planes 17-32 | Complete | 8d | 17May13 24May13 | 21Dec12 07Jan13 | None | | None | | 2.4.3.2.21.1.3[FS]; 2.4.3.2.21.2.2[FF+6d]; 2.4.3.2.21.2.2[SS+3d] | 2.4.3.2.22.1.3[FS]; 2.5.3.3.7.21[FF+1d]; 2.5.3.3.2.21.2.1[SS+1d] |
| 2.4.3.2.21.2.4 | Quality control and documentation of extrusions - Block 21 - Planes 17-32 | Complete | 8d | 28Mar13 10Apr13 | 13Dec12 26Dec12 | None | | None | | 2.4.3.2.21.2.2[SS]; 2.4.3.2.21.1.4[FS] | 2.4.3.2.22.1.4[FS] |
| 2.4.3.2.22 | Extrusion Production - Block 22 | Complete | 144d | 12Nov12 11Jun13 | 12Dec12 31Jan13 | None | | None | | | |
| 2.4.3.2.22.1 | Extrusions - Block 22 - Planes 1-16 | Complete | 140d | 12Nov12 05Jun13 | 12Dec12 18Jan13 | None | | None | | | |
| 2.4.3.2.22.1.1 | Obtain PVC resin - Block 22 - Planes 1-16 | Complete | 5d | 12Nov12 17Dec12 | 12Dec12 18Dec12 | None | | None | | 2.4.3.2.21.2.1[FS] | 2.4.3.2.22.2.1[FS]; 2.4.3.2.22.1.2[FS+5d] |
| 2.4.3.2.22.1.2 | Produce PVC extrusions - Block 22 - Planes 1-16 | Complete | 8d | 10Apr13 23Apr13 | 28Dec12 10Jan13 | None | | None | | 2.4.3.2.22.1.1[FS+5d]; 2.4.3.2.21.2.2[FS+1d] | 2.4.3.2.22.1.3[SS+3d]; 2.4.3.2.22.1.4[SS]; 2.4.3.2.22.1.3[FF+6d]; 2.4.3.2.22.2.2[FS] |
| 2.4.3.2.22.1.3 | Ship PVC extrusions to module factory - Block 22 - Planes 1-16 | Complete | 8d | 24May13 05Jun13 | 09Jan13 18Jan13 | None | | None | | 2.4.3.2.21.2.3[FS]; 2.4.3.2.22.1.2[SS+3d]; 2.4.3.2.22.1.2[FF+6d] | 2.5.3.3.11.22[FS]; 2.4.3.2.22.2.3[FS]; 2.5.3.3.7.22[SS+1d]; 2.5.3.3.2.22.1.1[SS+1d] |
| 2.4.3.2.22.1.4 | Quality control and documentation of extrusions - Block 22 - Planes 1-16 | Complete | 8d | 10Apr13 23Apr13 | 28Dec12 10Jan13 | None | | None | | 2.4.3.2.22.1.2[SS]; 2.4.3.2.21.2.4[FS] | 2.4.3.2.22.2.4[FS] |
| 2.4.3.2.22.2 | Extrusions - Block 22 - Planes 17-32 | Complete | 121d | 17Dec12 11Jun13 | 26Dec12 31Jan13 | None | | None | | | |
| 2.4.3.2.22.2.1 | Obtain PVC resin - Block 22 - Planes 17-32 | Complete | 5d | 17Dec12 19Dec12 | 26Dec12 03Jan13 | None | | None | | 2.4.3.2.22.1.1[FS] | 2.4.3.2.51[FS]; 2.4.3.2.22.2.2[FS+5d]; 2.4.3.2.23.1.1[FS] |
| 2.4.3.2.22.2.2 | Produce PVC extrusions - Block 22 - Planes 17-32 | Complete | 8d | 24Apr13 06May13 | 11Jan13 23Jan13 | None | | None | | 2.4.3.2.22.2.1[FS+5d]; 2.4.3.2.22.1.2[FS] | 2.4.3.2.22.2.3[FF+6d]; 2.4.3.2.22.2.3[SS+3d]; 2.4.3.2.22.2.4[SS]; 2.4.3.2.23.1.2[FS+1d] |
| 2.4.3.2.22.2.3 | Ship PVC extrusions to module factory - Block 22 - Planes 17-32 | Complete | 8d | 05Jun13 11Jun13 | 22Jan13 31Jan13 | None | | None | | 2.4.3.2.22.1.3[FS]; 2.4.3.2.22.2.2[FF+6d]; 2.4.3.2.22.2.2[SS+3d] | 2.4.3.2.23.1.3[FS]; 2.5.3.3.7.22[FF+1d]; 2.5.3.3.2.22.2.1[SS+1d] |
| 2.4.3.2.22.2.4 | Quality control and documentation of extrusions - Block 22 - Planes 17-32 | Complete | 8d | 24Apr13 06May13 | 11Jan13 23Jan13 | None | | None | | 2.4.3.2.22.1.4[FS]; 2.4.3.2.22.2.2[SS] | 2.4.3.2.23.1.4[FS] |
| 2.4.3.2.23 | Extrusion Production - Block 23 | Complete | 129d | 19Dec12 25Jun13 | 10Jan13 25Feb13 | None | | None | | | |
| 2.4.3.2.23.1 | Extrusions - Block 23 - Planes 1-16 | Complete | 124d | 19Dec12 18Jun13 | 10Jan13 13Feb13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.23.1.1 | Obtain PVC resin - Block 23 - Planes 1-16 | Complete | 5d | 19Dec12 14Jan13 | 10Jan13 16Jan13 | None | | None | | 2.4.3.2.22.2.1[FS] | 2.4.3.2.23.2.1[FS]; 2.4.3.2.23.1.2[FS+5d] |
| 2.4.3.2.23.1.2 | Produce PVC extrusions - Block 23 - Planes 1-16 | Complete | 8d | 06May13 23May13 | 25Jan13 05Feb13 | None | | None | | 2.4.3.2.23.1.1[FS+5d]; 2.4.3.2.22.2.2[FS+1d] | 2.4.3.2.23.1.3[FF+6d]; 2.4.3.2.23.1.4[SS]; 2.4.3.2.23.1.3[SS+3d]; 2.4.3.2.23.2.2[FS] |
| 2.4.3.2.23.1.3 | Ship PVC extrusions to module factory - Block 23 - Planes 1-16 | Complete | 8d | 11Jun13 18Jun13 | 04Feb13 13Feb13 | None | | None | | 2.4.3.2.22.2.3[FS]; 2.4.3.2.23.1.2[FF+6d]; 2.4.3.2.23.1.2[SS+3d] | 2.5.3.3.11.23[FS]; 2.4.3.2.23.2.3[FS]; 2.5.3.3.7.23[SS+1d]; 2.5.3.3.2.23.1.1[SS+1d] |
| 2.4.3.2.23.1.4 | Quality control and documentation of extrusions - Block 23 - Planes 1-16 | Complete | 8d | 06May13 23May13 | 25Jan13 05Feb13 | None | | None | | 2.4.3.2.22.2.4[FS]; 2.4.3.2.23.1.2[SS] | 2.4.3.2.23.2.4[FS] |
| 2.4.3.2.23.2 | Extrusions - Block 23 - Planes 17-32 | Complete | 115d | 14Jan13 25Jun13 | 23Jan13 25Feb13 | None | | None | | | |
| 2.4.3.2.23.2.1 | Obtain PVC resin - Block 23 - Planes 17-32 | Complete | 5d | 14Jan13 16Jan13 | 23Jan13 29Jan13 | None | | None | | 2.4.3.2.23.1.1[FS] | 2.4.3.2.24.1.1[FS]; 2.4.3.2.23.2.2[FS+5d] |
| 2.4.3.2.23.2.2 | Produce PVC extrusions - Block 23 - Planes 17-32 | Complete | 8d | 23May13 17Jun13 | 06Feb13 15Feb13 | None | | None | | 2.4.3.2.23.2.1[FS+5d]; 2.4.3.2.23.1.2[FS] | 2.4.3.2.23.2.4[SS]; 2.4.3.2.23.2.3[FF+6d]; 2.4.3.2.23.2.3[SS+3d]; 2.4.3.2.24.1.2[FS+1d] |
| 2.4.3.2.23.2.3 | Ship PVC extrusions to module factory - Block 23 - Planes 17-32 | Complete | 8d | 18Jun13 25Jun13 | 14Feb13 25Feb13 | None | | None | | 2.4.3.2.23.1.3[FS]; 2.4.3.2.23.2.2[FF+6d]; 2.4.3.2.23.2.2[SS+3d] | 2.5.3.3.7.23[FF+1d]; 2.4.3.2.24.1.3[FS]; 2.5.3.3.2.23.2.1[SS+1d] |
| 2.4.3.2.23.2.4 | Quality control and documentation of extrusions - Block 23 - Planes 17-32 | Complete | 8d | 23May13 17Jun13 | 06Feb13 15Feb13 | None | | None | | 2.4.3.2.23.1.4[FS]; 2.4.3.2.23.2.2[SS] | 2.4.3.2.24.1.4[FS] |
| 2.4.3.2.24 | Extrusion Production - Block 24 | In Progress | 133d | 16Jan13 24Jul13 | 05Feb13 20Mar13 | None | | None | | | |
| 2.4.3.2.24.1 | Extrusions - Block 24- Planes 1-16 | In Progress | 125d | 16Jan13 12Jul13 | 05Feb13 08Mar13 | None | | None | | | |
| 2.4.3.2.24.1.1 | Obtain PVC resin - Block 24 - Planes 1-16 | Complete | 5d | 16Jan13 14Feb13 | 05Feb13 11Feb13 | None | | None | | 2.4.3.2.23.2.1[FS] | 2.4.3.2.24.2.1[FS]; 2.4.3.2.24.1.2[FS+5d] |
| 2.4.3.2.24.1.2 | Produce PVC extrusions - Block 24 - Planes 1-16 | In Progress | 8d | 26Jun13 03Jul13 | 19Feb13 28Feb13 | None | | None | | 2.4.3.2.24.1.1[FS+5d]; 2.4.3.2.23.2.2[FS+1d] | 2.4.3.2.24.1.3[FF+6d]; 2.4.3.2.24.1.4[SS]; 2.4.3.2.24.1.3[SS+3d]; 2.4.3.2.24.2.2[FS] |
| 2.4.3.2.24.1.3 | Ship PVC extrusions to module factory - Block 24 - Planes 1-16 | In Progress | 8d | 27Jun13 12Jul13 | 27Feb13 08Mar13 | None | | None | | 2.4.3.2.24.1.2[FF+6d]; 2.4.3.2.24.1.2[SS+3d]; 2.4.3.2.23.2.3[FS] | 2.4.3.2.24.2.3[FS]; 2.5.3.3.11.24[FS]; 2.5.3.3.7.24[SS+1d]; 2.5.3.3.2.24.1.1[SS+1d] |
| 2.4.3.2.24.1.4 | Quality control and documentation of extrusions - Block 24 - Planes 1-16 | In Progress | 8d | 26Jun13 03Jul13 | 19Feb13 28Feb13 | None | | None | | 2.4.3.2.23.2.4[FS]; 2.4.3.2.24.1.2[SS] | 2.4.3.2.24.2.4[FS] |
| 2.4.3.2.24.2 | Extrusions - Block 24 - Planes 17-32 | In Progress | 116d | 11Feb13 24Jul13 | 15Feb13 20Mar13 | None | | None | | | |
| 2.4.3.2.24.2.1 | Obtain PVC resin - Block 24 - Planes 17-32 | Complete | 5d | 11Feb13 14Feb13 | 15Feb13 21Feb13 | None | | None | | 2.4.3.2.24.1.1[FS] | 2.4.3.2.24.2.2[FS+5d]; 2.4.3.2.25.1.1[FS] |
| 2.4.3.2.24.2.2 | Produce PVC extrusions - Block 24 - Planes 17-32 | Planned | 8d | 05Jul13 16Jul13 | 01Mar13 12Mar13 | None | | None | | 2.4.3.2.24.2.1[FS+5d]; 2.4.3.2.24.1.2[FS] | 2.4.3.2.24.2.4[SS]; 2.4.3.2.24.2.3[SS+3d]; 2.4.3.2.24.2.3[FF+6d]; 2.4.3.2.25.1.2[FS+1d] |
| 2.4.3.2.24.2.3 | Ship PVC extrusions to module factory - Block 24 - Planes 17-32 | Planned | 8d | 15Jul13 24Jul13 | 11Mar13 20Mar13 | None | | None | | 2.4.3.2.24.1.3[FS]; 2.4.3.2.24.2.2[SS+3d]; 2.4.3.2.24.2.2[FF+6d] | 2.4.3.2.25.1.3[FS]; 2.5.3.3.7.24[FF+1d]; 2.5.3.3.2.24.2.1[SS+1d] |
| 2.4.3.2.24.2.4 | Quality control and documentation of extrusions - Block 24 - Planes 17-32 | Planned | 8d | 05Jul13 16Jul13 | 01Mar13 12Mar13 | None | | None | | 2.4.3.2.24.2.2[SS]; 2.4.3.2.24.1.4[FS] | 2.4.3.2.25.1.4[FS] |
| 2.4.3.2.25 | Extrusion Production - Block 25 | In Progress | 130d | 14Feb13 16Aug13 | 28Feb13 12Apr13 | None | | None | | | |
| 2.4.3.2.25.1 | Extrusions - Block 25 - Planes 1-16 | In Progress | 122d | 14Feb13 06Aug13 | 28Feb13 02Apr13 | None | | None | | | |
| 2.4.3.2.25.1.1 | Obtain PVC resin - Block 25 - Planes 1-16 | Complete | 5d | 14Feb13 14Mar13 | 28Feb13 06Mar13 | None | | None | | 2.4.3.2.24.2.1[FS] | 2.4.3.2.25.2.1[FS]; 2.4.3.2.25.1.2[FS+5d] |
| 2.4.3.2.25.1.2 | Produce PVC extrusions - Block 25 - Planes 1-16 | Planned | 8d | 18Jul13 29Jul13 | 14Mar13 25Mar13 | None | | None | | 2.4.3.2.25.1.1[FS+5d]; 2.4.3.2.24.2.2[FS+1d] | 2.4.3.2.25.1.4[SS]; 2.4.3.2.25.1.3[SS+3d]; 2.4.3.2.25.1.3[FF+6d]; 2.4.3.2.25.2.2[FS] |
| 2.4.3.2.25.1.3 | Ship PVC extrusions to module factory - Block 25 - Planes 1-16 | Planned | 8d | 26Jul13 06Aug13 | 22Mar13 02Apr13 | None | | None | | 2.4.3.2.24.2.3[FS]; 2.4.3.2.25.1.2[SS+3d]; 2.4.3.2.25.1.2[FF+6d] | 2.4.3.2.25.2.3[FS]; 2.5.3.3.11.25[FS]; 2.5.3.3.7.25[SS+1d]; 2.5.3.3.2.25.1.1[SS+1d] |
| 2.4.3.2.25.1.4 | Quality control and documentation of extrusions - Block 25 - Planes 1-16 | Planned | 8d | 18Jul13 29Jul13 | 14Mar13 25Mar13 | None | | None | | 2.4.3.2.25.1.2[SS]; 2.4.3.2.24.2.4[FS] | 2.4.3.2.25.2.4[FS] |
| 2.4.3.2.25.2 | Extrusions - Block 25 - Planes 17-32 | In Progress | 111d | 13Mar13 16Aug13 | 12Mar13 12Apr13 | None | | None | | | |
| 2.4.3.2.25.2.1 | Obtain PVC resin - Block 25 - Planes 17-32 | Complete | 5d | 13Mar13 14Mar13 | 12Mar13 18Mar13 | None | | None | | 2.4.3.2.25.1.1[FS] | 2.4.3.2.26.1.1[FS]; 2.4.3.2.25.2.2[FS+5d] |
| 2.4.3.2.25.2.2 | Produce PVC extrusions - Block 25 - Planes 17-32 | Planned | 8d | 30Jul13 08Aug13 | 26Mar13 04Apr13 | None | | None | | 2.4.3.2.25.2.1[FS+5d]; 2.4.3.2.25.1.2[FS] | 2.4.3.2.44.6[FS]; 2.4.3.2.25.2.3[SS+3d]; 2.4.3.2.25.2.3[FF+6d]; 2.4.3.2.26.1.2[FS+1d]; 2.4.3.2.25.2.4[SS] |
| 2.4.3.2.25.2.3 | Ship PVC extrusions to module factory - Block 25 - Planes 17-32 | Planned | 8d | 07Aug13 16Aug13 | 03Apr13 12Apr13 | None | | None | | 2.4.3.2.25.1.3[FS]; 2.4.3.2.25.2.2[SS+3d]; 2.4.3.2.25.2.2[FF+6d] | 2.4.3.2.26.1.3[FS]; 2.5.3.3.7.25[FF+1d]; 2.5.3.3.2.25.2.1[SS+1d] |
| 2.4.3.2.25.2.4 | Quality control and documentation of extrusions - Block 25 - Planes 17-32 | Planned | 8d | 30Jul13 08Aug13 | 26Mar13 04Apr13 | None | | None | | 2.4.3.2.25.2.2[SS]; 2.4.3.2.25.1.4[FS] | 2.4.3.2.26.1.4[FS] |
| 2.4.3.2.26 | Extrusion Production - Block 26 | In Progress | 127d | 14Mar13 11Sep13 | 25Mar13 07May13 | None | | None | | | |
| 2.4.3.2.26.1 | Extrusions - Block 26 - Planes 1-16 | In Progress | 119d | 14Mar13 29Aug13 | 25Mar13 25Apr13 | None | | None | | | |
| 2.4.3.2.26.1.1 | Obtain PVC resin - Block 26 - Planes 1-16 | Complete | 5d | 14Mar13 28Mar13 | 25Mar13 29Mar13 | None | | None | | 2.4.3.2.25.2.1[FS] | 2.4.3.2.26.1.2[FS+5d]; 2.4.3.2.26.2.1[FS] |
| 2.4.3.2.26.1.2 | Produce PVC extrusions - Block 26 - Planes 1-16 | Planned | 8d | 12Aug13 21Aug13 | 08Apr13 17Apr13 | None | | None | | 2.4.3.2.26.1.1[FS+5d]; 2.4.3.2.25.2.2[FS+1d] | 2.4.3.2.26.1.4[SS]; 2.4.3.2.26.1.3[SS+3d]; 2.4.3.2.26.1.3[FF+6d]; 2.4.3.2.26.2.2[FS] |
| 2.4.3.2.26.1.3 | Ship PVC extrusions to module factory - Block 26 - Planes 1-16 | Planned | 8d | 20Aug13 29Aug13 | 16Apr13 25Apr13 | None | | None | | 2.4.3.2.26.1.2[SS+3d]; 2.4.3.2.25.2.3[FS]; 2.4.3.2.26.1.2[FF+6d] | 2.5.3.3.11.26[FS]; 2.4.3.2.26.2.3[FS]; 2.5.3.3.7.26[SS+1d]; 2.5.3.3.2.26.1.1[SS+1d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.26.1.4 | Quality control and documentation of extrusions - Block 26 - Planes 1-16 | Planned | 8d | 12Aug13 21Aug13 | 08Apr13 17Apr13 | None | | None | | 2.4.3.2.26.1.2[SS]; 2.4.3.2.25.2.4[FS] | 2.4.3.2.26.2.4[FS] |
| 2.4.3.2.26.2 | Extrusions - Block 26 - Planes 17-32 | In Progress | 117d | 28Mar13 11Sep13 | 04Apr13 07May13 | None | | None | | | |
| 2.4.3.2.26.2.1 | Obtain PVC resin - Block 26 - Planes 17-32 | Complete | 5d | 28Mar13 09Apr13 | 04Apr13 10Apr13 | None | | None | | 2.4.3.2.26.1.1[FS] | 2.4.3.2.26.2.2[FS+5d]; 2.4.3.2.27.1.1[FS] |
| 2.4.3.2.26.2.2 | Produce PVC extrusions - Block 26 - Planes 17-32 | Planned | 8d | 22Aug13 03Sep13 | 18Apr13 29Apr13 | None | | None | | 2.4.3.2.26.2.1[FS+5d]; 2.4.3.2.26.1.2[FS] | 2.4.3.2.26.2.3[SS+3d]; 2.4.3.2.26.2.4[SS]; 2.4.3.2.26.2.3[FF+6d]; 2.4.3.2.27.1.2[FS+1d] |
| 2.4.3.2.26.2.3 | Ship PVC extrusions to module factory - Block 26 - Planes 17-32 | Planned | 8d | 30Aug13 11Sep13 | 26Apr13 07May13 | None | | None | | 2.4.3.2.26.1.3[FS]; 2.4.3.2.26.2.2[SS+3d]; 2.4.3.2.26.2.2[FF+6d] | 2.5.3.3.2.26.2.1[SS+1d]; 2.4.3.2.27.1.3[FS]; 2.5.3.3.7.26[FF+1d] |
| 2.4.3.2.26.2.4 | Quality control and documentation of extrusions - Block 26 - Planes 17-32 | Planned | 8d | 22Aug13 03Sep13 | 18Apr13 29Apr13 | None | | None | | 2.4.3.2.26.1.4[FS]; 2.4.3.2.26.2.2[SS] | 2.4.3.2.27.1.4[FS] |
| 2.4.3.2.27 | Extrusion Production - Block 27 | In Progress | 126d | 09Apr13 04Oct13 | 17Apr13 31May13 | None | | None | | | |
| 2.4.3.2.27.1 | Extrusions - Block 27 - Planes 1-16 | In Progress | 118d | 09Apr13 24Sep13 | 17Apr13 20May13 | None | | None | | | |
| 2.4.3.2.27.1.1 | Obtain PVC resin - Block 27 - Planes 1-16 | Complete | 5d | 09Apr13 18Apr13 | 17Apr13 23Apr13 | None | | None | | 2.4.3.2.26.2.1[FS] | 2.4.3.2.27.1.2[FS+5d]; 2.4.3.2.27.2.1[FS] |
| 2.4.3.2.27.1.2 | Produce PVC extrusions - Block 27 - Planes 1-16 | Planned | 8d | 05Sep13 16Sep13 | 01May13 10May13 | None | | None | | 2.4.3.2.27.1.1[FS+5d]; 2.4.3.2.26.2.2[FS+1d] | 2.4.3.2.27.1.3[SS+3d]; 2.4.3.2.27.1.4[SS]; 2.4.3.2.27.2.2[FS]; 2.4.3.2.27.1.3[FF+6d] |
| 2.4.3.2.27.1.3 | Ship PVC extrusions to module factory - Block 27 - Planes 1-16 | Planned | 8d | 13Sep13 24Sep13 | 09May13 20May13 | None | | None | | 2.4.3.2.27.1.2[SS+3d]; 2.4.3.2.26.2.3[FS]; 2.4.3.2.27.1.2[FF+6d] | 2.5.3.3.11.27[FS]; 2.4.3.2.27.2.3[FS]; 2.5.3.3.7.27[SS+1d]; 2.5.3.3.2.27.1.1[SS+1d] |
| 2.4.3.2.27.1.4 | Quality control and documentation of extrusions - Block 27 - Planes 1-16 | Planned | 8d | 05Sep13 16Sep13 | 01May13 10May13 | None | | None | | 2.4.3.2.27.1.2[SS]; 2.4.3.2.26.2.4[FS] | 2.4.3.2.27.2.4[FS] |
| 2.4.3.2.27.2 | Extrusions - Block 27 - Planes 17-32 | In Progress | 119d | 18Apr13 04Oct13 | 29Apr13 31May13 | None | | None | | | |
| 2.4.3.2.27.2.1 | Obtain PVC resin - Block 27 - Planes 17-32 A | Complete | 2d | 18Apr13 14May13 | 29Apr13 30Apr13 | None | | None | | 2.4.3.2.27.1.1[FS] | 2.4.3.2.27.2.5[FS] |
| 2.4.3.2.27.2.2 | Produce PVC extrusions - Block 27 - Planes 17-32 | Planned | 8d | 17Sep13 26Sep13 | 13May13 22May13 | None | | None | | 2.4.3.2.27.2.5[FS+5d]; 2.4.3.2.27.1.2[FS] | 2.4.3.2.27.2.4[SS]; 2.4.3.2.28.1.2[FS+1d]; 2.4.3.2.27.2.3[SS+3d]; 2.4.3.2.27.2.3[FF+6d] |
| 2.4.3.2.27.2.3 | Ship PVC extrusions to module factory - Block 27 - Planes 17-32 | Planned | 8d | 25Sep13 04Oct13 | 21May13 31May13 | None | | None | | 2.4.3.2.27.1.3[FS]; 2.4.3.2.27.2.2[SS+3d]; 2.4.3.2.27.2.2[FF+6d] | 2.5.3.3.2.27.2.1[SS+1d]; 2.4.3.2.28.1.3[FS]; 2.5.3.3.7.27[FF+1d] |
| 2.4.3.2.27.2.4 | Quality control and documentation of extrusions - Block 27 - Planes 17-32 | Planned | 8d | 17Sep13 26Sep13 | 13May13 22May13 | None | | None | | 2.4.3.2.27.2.2[SS]; 2.4.3.2.27.1.4[FS] | 2.4.3.2.28.1.4[FS] |
| 2.4.3.2.27.2.5 | Obtain PVC resin - Block 27 - Planes 17-32 B | Complete | 3d | 14May13 15May13 | 01May13 03May13 | None | | None | | 2.4.3.2.27.2.1[FS] | 2.4.3.2.28.1.1[FS]; 2.4.3.2.27.2.2[FS+5d] |
| 2.4.3.2.28 | Extrusion Production - Block 28 | In Progress | 116d | 16May13 29Oct13 | 10May13 25Jun13 | None | | None | | | |
| 2.4.3.2.28.1 | Extrusions - Block 28 - Planes 1-16 | In Progress | 108d | 16May13 17Oct13 | 10May13 13Jun13 | None | | None | | | |
| 2.4.3.2.28.1.1 | Obtain PVC resin - Block 28 - Planes 1-16 | Complete | 5d | 16May13 17May13 | 10May13 16May13 | None | | None | | 2.4.3.2.27.2.5[FS] | 2.4.3.2.28.1.2[FS+5d]; 2.4.3.2.28.2.1[FS] |
| 2.4.3.2.28.1.2 | Produce PVC extrusions - Block 28 - Planes 1-16 | Planned | 8d | 30Sep13 09Oct13 | 24May13 05Jun13 | None | | None | | 2.4.3.2.28.1.1[FS+5d]; 2.4.3.2.27.2.2[FS+1d] | 2.4.3.2.28.1.3[SS+3d]; 2.4.3.2.28.1.4[SS]; 2.4.3.2.28.2.2[FS]; 2.4.3.2.28.1.3[FF+6d] |
| 2.4.3.2.28.1.3 | Ship PVC extrusions to module factory - Block 28 - Planes 1-16 | Planned | 8d | 08Oct13 17Oct13 | 04Jun13 13Jun13 | None | | None | | 2.4.3.2.28.1.2[SS+3d]; 2.4.3.2.27.2.3[FS]; 2.4.3.2.28.1.2[FF+6d] | 2.5.3.3.11.28[FS]; 2.4.3.2.28.2.3[FS]; 2.5.3.3.7.28[SS+1d]; 2.5.3.3.2.28.1.1[SS+1d] |
| 2.4.3.2.28.1.4 | Quality control and documentation of extrusions - Block 28 - Planes 1-16 | Planned | 8d | 30Sep13 09Oct13 | 24May13 05Jun13 | None | | None | | 2.4.3.2.28.1.2[SS]; 2.4.3.2.27.2.4[FS] | 2.4.3.2.28.2.4[FS] |
| 2.4.3.2.28.2 | Extrusions - Block 28 - Planes 17-32 | In Progress | 115d | 17May13 29Oct13 | 22May13 25Jun13 | None | | None | | | |
| 2.4.3.2.28.2.1 | Obtain PVC resin - Block 28 - Planes 17-32 | Complete | 5d | 17May13 21Jun13 | 22May13 29May13 | None | | None | | 2.4.3.2.28.1.1[FS] | 2.4.3.2.28.2.2[FS+5d]; 2.4.3.2.29.1.1[FS] |
| 2.4.3.2.28.2.2 | Produce PVC extrusions - Block 28 - Planes 17-32 | Planned | 8d | 10Oct13 21Oct13 | 06Jun13 17Jun13 | None | | None | | 2.4.3.2.28.1.2[FS]; 2.4.3.2.28.2.1[FS+5d] | 2.4.3.2.29.1.2[FF]; 2.4.3.2.28.2.3[FF+6d]; 2.4.3.2.28.2.3[SS+3d]; 2.4.3.2.28.2.4[SS] |
| 2.4.3.2.28.2.3 | Ship PVC extrusions to module factory - Block 28 - Planes 17-32 | Planned | 8d | 18Oct13 29Oct13 | 14Jun13 25Jun13 | None | | None | | 2.4.3.2.28.1.3[FS]; 2.4.3.2.28.2.2[FF+6d]; 2.4.3.2.28.2.2[SS+3d] | 2.5.3.3.2.28.2.1[SS+1d]; 2.5.3.3.7.28[FF+1d]; 2.4.3.2.29.1.3[FF] |
| 2.4.3.2.28.2.4 | Quality control and documentation of extrusions - Block 28 - Planes 17-32 | Planned | 8d | 10Oct13 21Oct13 | 06Jun13 17Jun13 | None | | None | | 2.4.3.2.28.1.4[FS]; 2.4.3.2.28.2.2[SS] | 2.4.4.15[FS]; 2.4.3.2.29.1.4[FF] |
| 2.4.3.2.29 | Extrusion Production - Block 29 | In Progress | 107d | 30May13 29Oct13 | 30May13 19Jul13 | None | | None | | | |
| 2.4.3.2.29.1 | Extrusions - Block 29 - Planes 1-16 | In Progress | 107d | 30May13 29Oct13 | 30May13 09Jul13 | None | | None | | | |
| 2.4.3.2.29.1.1 | Obtain PVC resin - Block 29 - Planes 1-16 (OBSOLETE) | Complete | 1d | 30May13 30May13 | 30May13 30May13 | None | | None | | 2.4.3.2.28.2.1[FS] | 2.4.3.2.29.2.1[FS]; 2.4.3.2.29.1.2[FS+5d] |
| 2.4.3.2.29.1.2 | Produce PVC extrusions - Block 29 - Planes 1-16 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 19Jun13 28Jun13 | None | | None | | 2.4.3.2.28.2.2[FF]; 2.4.3.2.29.1.1[FS+5d] | 2.4.3.2.29.1.3[FF]; 2.4.3.2.29.2.2[FF]; 2.4.3.2.29.1.3[SS]; 2.4.3.2.29.1.4[SS] |
| 2.4.3.2.29.1.3 | Ship PVC extrusions to module factory - Block 29 - Planes 1-16 (OBSOLETE) | Planned | 1d | 29Oct13 29Oct13 | 27Jun13 09Jul13 | None | | None | | 2.4.3.2.29.1.2[FF]; 2.4.3.2.28.2.3[FF]; 2.4.3.2.29.1.2[SS] | 2.5.3.3.2.29.1.1[SS+1d]; 2.5.3.3.7.29[SS+1d]; 2.4.3.2.29.2.3[FF] |
| 2.4.3.2.29.1.4 | Quality control and documentation of extrusions - Block 29 - Planes 1-16 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 19Jun13 28Jun13 | None | | None | | 2.4.3.2.28.2.4[FF]; 2.4.3.2.29.1.2[SS] | 2.4.3.2.29.2.4[FF] |
| 2.4.3.2.29.2 | Extrusions - Block 29 - Planes 17-32 | In Progress | 106d | 31May13 29Oct13 | 31May13 19Jul13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.29.2.1 | Obtain PVC resin - Block 29 - Planes 17-32 (OBSOLETE) | Complete | 1d | 31May13 31May13 | 31May13 31May13 | None | | None | | 2.4.3.2.29.1.1[FS] | 2.4.3.2.30.1.1[FS]; 2.4.3.2.29.2.2[FS+5d] |
| 2.4.3.2.29.2.2 | Produce PVC extrusions - Block 29 - Planes 17-32 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 01Jul13 11Jul13 | None | | None | | 2.4.3.2.29.1.2[FF]; 2.4.3.2.29.2.1[FS+5d] | 2.4.3.2.44.11[FS]; 2.4.3.2.29.2.3[FF]; 2.4.3.2.30.1.2[FF]; 2.4.3.2.29.2.4[SS]; 2.4.3.2.29.2.3[SS+3d] |
| 2.4.3.2.29.2.3 | Ship PVC extrusions to module factory - Block 29 - Planes 17-32 (OBSOLETE) | Planned | 1d | 29Oct13 29Oct13 | 10Jul13 19Jul13 | None | | None | | 2.4.3.2.29.2.2[FF]; 2.4.3.2.29.1.3[FF]; 2.4.3.2.29.2.2[SS+3d] | 2.5.3.3.2.29.2.1[SS+1d]; 2.5.3.3.7.29[FF+1d]; 2.4.3.2.30.1.3[FF] |
| 2.4.3.2.29.2.4 | Quality control and documentation of extrusions - Block 29 - Planes 17-32 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 01Jul13 11Jul13 | None | | None | | 2.4.3.2.29.2.2[SS]; 2.4.3.2.29.1.4[FF] | 2.4.3.2.30.1.4[FF] |
| 2.4.3.2.30 | Extrusion Production - Block 30 | In Progress | 105d | 03Jun13 29Oct13 | 03Jun13 13Aug13 | None | | None | | | |
| 2.4.3.2.30.1 | Extrusions - Block 30 - Planes 1-16 | In Progress | 105d | 03Jun13 29Oct13 | 03Jun13 01Aug13 | None | | None | | | |
| 2.4.3.2.30.1.1 | Obtain PVC resin - Block 30 - Planes 1-16 (OBSOLETE) | Complete | 1d | 03Jun13 03Jun13 | 03Jun13 03Jun13 | None | | None | | 2.4.3.2.29.2.1[FS] | 2.4.3.2.30.2.1[FS]; 2.4.3.2.30.1.2[FS+5d] |
| 2.4.3.2.30.1.2 | Produce PVC extrusions - Block 30 - Planes 1-16 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 15Jul13 24Jul13 | None | | None | | 2.4.3.2.30.1.1[FS+5d]; 2.4.3.2.29.2.2[FF] | 2.4.3.2.30.1.3[SS]; 2.4.3.2.30.1.3[FF]; 2.4.3.2.30.2.2[FF]; 2.4.3.2.30.1.4[SS] |
| 2.4.3.2.30.1.3 | Ship PVC extrusions to module factory - Block 30 - Planes 1-16 (OBSOLETE) | Planned | 1d | 29Oct13 29Oct13 | 23Jul13 01Aug13 | None | | None | | 2.4.3.2.30.1.2[SS]; 2.4.3.2.30.1.2[FF]; 2.4.3.2.29.2.3[FF] | 2.5.3.3.2.30.1.1[SS+1d]; 2.5.3.3.7.30[SS+1d]; 2.4.3.2.30.2.3[FF] |
| 2.4.3.2.30.1.4 | Quality control and documentation of extrusions - Block 30 - Planes 1-16 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 15Jul13 24Jul13 | None | | None | | 2.4.3.2.29.2.4[FF]; 2.4.3.2.30.1.2[SS] | 2.4.3.2.30.2.4[FF] |
| 2.4.3.2.30.2 | Extrusions - Block 30 - Planes 17-32 | In Progress | 104d | 04Jun13 29Oct13 | 04Jun13 13Aug13 | None | | None | | | |
| 2.4.3.2.30.2.1 | Obtain PVC resin - Block 30 - Planes 17-32 (OBSOLETE) | Complete | 1d | 04Jun13 04Jun13 | 04Jun13 04Jun13 | None | | None | | 2.4.3.2.30.1.1[FS] | 2.4.3.2.31.1.1[FS]; 2.4.3.2.30.2.2[FS+5d] |
| 2.4.3.2.30.2.2 | Produce PVC extrusions - Block 30 - Planes 17-32 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 25Jul13 05Aug13 | None | | None | | 2.4.3.2.30.1.2[FF]; 2.4.3.2.30.2.1[FS+5d] | 2.4.3.2.44.7[FS]; 2.4.3.2.30.2.4[SS]; 2.4.3.2.30.2.3[FF]; 2.4.3.2.31.1.2[FF]; 2.4.3.2.30.2.3[SS] |
| 2.4.3.2.30.2.3 | Ship PVC extrusions to module factory - Block 30 - Planes 17-32 (OBSOLETE) | Planned | 1d | 29Oct13 29Oct13 | 02Aug13 13Aug13 | None | | None | | 2.4.3.2.30.2.2[FF]; 2.4.3.2.30.1.3[FF]; 2.4.3.2.30.2.2[SS] | 2.4.3.2.31.1.3[FF]; 2.5.3.3.2.30.2.1[SS+1d]; 2.5.3.3.7.30[FF+1d] |
| 2.4.3.2.30.2.4 | Quality control and documentation of extrusions - Block 30 - Planes 17-32 (OBSOLETE) | Planned | 1d | 21Oct13 21Oct13 | 25Jul13 05Aug13 | None | | None | | 2.4.3.2.30.2.2[SS]; 2.4.3.2.30.1.4[FF] | 2.4.3.2.31.1.4[FF] |
| 2.4.3.2.40 | Adjustments for Blocks 1-5 - 32-plane All Thick-walled Extrusions | Complete | 71d | 01Jun11 09Sep11 | 01Jun11 08Sep11 | None | | None | | | |
| 2.4.3.2.40.1 | Resin adjustment | Complete | 60d | 01Jun11 24Aug11 | 01Jun11 24Aug11 | None | | None | | | |
| 2.4.3.2.40.2 | Produce PVC extrusions adjustment | Complete | 60d | 01Jun11 24Aug11 | 01Jun11 24Aug11 | None | | None | | | |
| 2.4.3.2.40.3 | Shipping adjustment | Complete | 70d | 01Jun11 09Sep11 | 01Jun11 08Sep11 | None | | None | | | |
| 2.4.3.2.40.4 | QC and documentation adjustment | Complete | 60d | 01Jun11 24Aug11 | 01Jun11 24Aug11 | None | | None | | | |
| 2.4.3.2.42 | Extrusion Production - Supplemental Maintenance 2 | Complete | 64d | 01Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | | |
| 2.4.3.2.43 | Extrusion Production - Supplemental Maintenance | Complete | 151d | 01Mar11 30Sep11 | 01Mar11 30Sep11 | None | | None | | | |
| 2.4.3.2.44 | Extrusion Production Milestones | In Progress | 702d | 10Jan11 21Oct13 | 03Jan11 30Dec13 | None | | None | | | |
| 2.4.3.2.44.1 | Far detector extrusion production started | Complete | 0 | 10Jan11 10Jan11 | 03Jan11 03Jan11 | None | | None | | 2.4.3.2.1.1.1[SS] | 2.4.3.2.44.2[FS] |
| 2.4.3.2.44.2 | Extrusions for superblock 1 produced | Complete | 0 | 30Nov11 30Nov11 | 22Nov11 22Nov11 | None | | None | | 2.4.3.2.44.1[FS]; 2.4.3.2.5.2.2[FS] | 2.4.3.2.44.3[FS] |
| 2.4.3.2.44.3 | Extrusions for superblock 2 produced | Complete | 0 | 02May12 02May12 | 29Mar12 29Mar12 | None | | None | | 2.4.3.2.44.2[FS]; 2.4.3.2.10.2.2[FS] | 2.4.3.2.44.4[FS] |
| 2.4.3.2.44.4 | Extrusions for superblock 3 produced | Complete | 0 | 04Oct12 04Oct12 | 30Jul12 30Jul12 | None | | None | | 2.4.3.2.15.2.2[FS]; 2.4.3.2.44.3[FS] | 2.4.3.2.44.5[FS] |
| 2.4.3.2.44.5 | Extrusions for superblock 4 produced | Complete | 0 | 14Mar13 14Mar13 | 29Nov12 29Nov12 | None | | None | | 2.4.3.2.20.2.2[FS]; 2.4.3.2.44.4[FS] | 2.4.3.2.44.6[FS] |
| 2.4.3.2.44.6 | Extrusions for superblock 5 produced | Planned | 0 | 08Aug13 08Aug13 | 04Apr13 04Apr13 | None | | None | | 2.4.3.2.25.2.2[FS]; 2.4.3.2.44.5[FS] | 2.4.3.2.44.7[FS] |
| 2.4.3.2.44.7 | Extrusions for superblock 6 produced | Planned | 0 | 21Oct13 21Oct13 | 05Aug13 05Aug13 | None | | None | | 2.4.3.2.30.2.2[FS]; 2.4.3.2.44.6[FS] | 2.4.3.2.44.9[FS] |
| 2.4.3.2.44.9 | Extrusions for (partial) superblock 7 produced | Planned | 0 | 21Oct13 21Oct13 | 10May13 10May13 | None | | None | | 2.4.3.2.44.7[FS]; 2.4.3.2.33.2.2[FS] | 2.4.3.2.44.10[FS] |
| 2.4.3.2.44.10 | Far Detector extrusions for 15kt completed | Planned | 0 | 21Oct13 21Oct13 | 02Aug13 02Aug13 | None | | None | | 2.4.3.2.44.9[FS]; 2.4.3.2.44.11[FS] | |
| 2.4.3.2.44.11 | Far Detector extrusions for 14kt completed | Planned | 0 | 21Oct13 21Oct13 | 30Dec13 30Dec13 | None | | None | | 2.4.3.2.50[FS]; 2.4.3.2.48[FS]; 2.4.3.2.29.2.2[FS] | 2.4.3.2.44.10[FS] |
| 2.4.3.2.45 | Extrusion Production - Supplemental Maintenance 3 | Complete | 21d | 01Sep11 30Sep11 | 01Sep11 30Sep11 | None | | None | | | 2.4.3.2.46[FS] |
| 2.4.3.2.46 | Extrusion Production - Supplemental Maintenance 4 | Complete | 60d | 03Oct11 29Dec11 | 03Oct11 29Dec11 | None | | None | | 2.4.3.2.45[FS] | 2.4.3.2.49[FS]; 2.4.3.2.47[FS] |
| 2.4.3.2.47 | Place PO with Extrutech for tooling maintenance hardware | Complete | 1d | 18Jul12 25Jul12 | 01Aug12 01Aug12 | None | | None | | 2.4.3.2.46[FS] | 2.4.3.2.48[FS+41d] |
| 2.4.3.2.48 | Receive tooling maintenance hardware | Complete | 10d | 25Sep12 23Oct12 | 01Oct12 12Oct12 | None | | None | | 2.4.3.2.47[FS+41d] | 2.4.3.2.44.11[FS] |
| 2.4.3.2.49 | Place PO for replacement die inserts | Complete | 1d | 14Sep12 27Sep12 | 17Sep12 17Sep12 | None | | None | | 2.4.3.2.46[FS] | 2.4.3.2.50[FS+61d] |

# Nova Project - with status info thru 30Jun13

**Baseline: Nova_PMB**

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.3.2.50 | Receive replacement die inserts | Complete | 1d | 03Dec12 19Dec12 | 14Dec12 14Dec12 | None | | None | | 2.4.3.2.49[FS+61d] | 2.4.3.2.44.11[FS] |
| 2.4.3.2.51 | Procure additional resin - supplement 1 | In Progress | 64d | 21Jun13 24Sep13 | 01Jul13 30Sep13 | Not Earlier Than | 01Jul13 | None | | 2.4.3.2.22.2.1[FS] | 2.4.3.2.52[FF] |
| 2.4.3.2.52 | Procure additional resin - supplement 2 | Planned | 20d | 03Sep13 30Sep13 | 03Sep13 30Sep13 | Not Earlier Than | 01Sep13 | None | | 2.4.3.2.51[FF] | |
| 2.4.4 | Production Quality Assurance and Extrusion Evaluation | In Progress | 1025d | 02Feb10 28Feb14 | 16Jun10 28Feb14 | None | | None | | | |
| 2.4.4.1 | Procure hardware | Complete | 60d | 02Feb10 29Nov10 | 16Jun10 14Jul10 | None | | None | | | 2.4.4.2[FS] |
| 2.4.4.2 | Setup hardware | Complete | 40d | 10Dec10 07Jan11 | 15Jul10 09Sep10 | None | | None | | 2.4.4.1[FS] | 2.4.4.4[FS] |
| 2.4.4.4 | Data-taking and analysis - FY11 | Complete | 183d | 12Jan11 30Sep11 | 06Jan11 30Sep11 | None | | None | | 2.4.3.2.1.1.1[FS]; 2.4.4.2[FS] | 2.4.4.5[FS] |
| 2.4.4.5 | Data-taking and analysis - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.4.4[FS] | 2.4.4.6[FS] |
| 2.4.4.6 | Data-taking and analysis - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.4.4.5[FS] | 2.4.4.7[FS] |
| 2.4.4.7 | Data-taking and analysis - FY14 (obsolete) | Planned | 1d | 01Oct13 01Oct13 | 01Oct13 27Dec13 | Not Earlier Than | 01Oct13 | None | | 2.4.4.6[FS] | 2.4.4.15[FS] |
| 2.4.4.8 | Ship samples for QA - FY11 | Complete | 183d | 07Jan11 30Sep11 | 01Dec10 30Sep11 | None | | None | | 2.4.3.2.1.2.3[SS+1d] | 2.4.4.9[FS] |
| 2.4.4.9 | Ship samples for QA - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.4.8[FS] | 2.4.4.10[FS] |
| 2.4.4.10 | Ship samples for QA - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.4.4.9[FS] | 2.4.4.11[FS] |
| 2.4.4.11 | Ship samples for QA - FY14 (obsolete) | Planned | 1d | 01Oct13 01Oct13 | 01Oct13 27Dec13 | Not Earlier Than | 01Oct13 | None | | 2.4.4.10[FS] | 2.4.4.15[FS] |
| 2.4.4.12 | Procure and set up tensile test machine | Complete | 45d | 07Sep10 17Dec10 | 07Sep10 08Nov10 | None | | None | | | |
| 2.4.4.13 | Fabricate impact tester | Complete | 70d | 03Feb11 27Sep11 | 03Jan11 11Apr11 | None | | None | | | |
| 2.4.4.14 | Investigate and resolve PVC knitting issues | Complete | 86d | 01Jun11 30Sep11 | 01Jun11 30Sep11 | None | | None | | | |
| 2.4.4.15 | Supplemental contract labor for QC closeout | Planned | 60d | 02Dec13 28Feb14 | 02Dec13 28Feb14 | Not Earlier Than | 01Dec13 | None | | 2.4.4.7[FS]; 2.4.4.11[FS]; 2.4.3.2.28.2.4[FS] | 2.10.9.1[FS] |
| 2.4.5 | Shipping & Handling | In Progress | 953d | 14Dec09 27Sep13 | 16Mar10 27Sep13 | None | | None | | | |
| 2.4.5.1 | Finalize design for pallets and motion systems | Complete | 20d | 07Sep10 14Feb11 | 19Apr10 30Apr10 | None | | None | | 2.4.1.3.3[FS]; 1.9.4.3[FS]; 2.10.9.7[FS] | 2.4.5.3.1.1[FS]; 2.4.5.2.1[FS]; 2.4.5.2.2[FS]; 2.4.5.3.3.1[FS]; 2.4.5.3.4.1[FS] |
| 2.4.5.2 | Pallet System | Complete | 213d | 01Apr10 04Feb11 | 10Sep10 29Jun12 | None | | None | | | |
| 2.4.5.2.1 | Procure commercial pallets | Complete | 20d | 01Apr10 28May10 | 10Sep10 07Oct10 | None | | None | | 2.4.5.1[FS]; 2.4.2.1.13[FS] | 2.4.5.2.3[SS+20d]; 2.4.5.2.2[SS]; 2.4.3.2.1.1.4[SS+20d] |
| 2.4.5.2.2 | Procure pallet assembly hardware and tools | Complete | 20d | 01Apr10 21May10 | 10Sep10 07Oct10 | None | | None | | 2.4.5.1[FS]; 2.4.5.2.1[SS] | 2.4.5.2.3[FS] |
| 2.4.5.2.3 | Obtain pallet bridges (extrusions) and assemble pallets | Complete | 400d | 14Jul10 04Feb11 | 29Nov10 29Jun12 | None | | None | | 2.4.5.2.1[SS+20d]; 2.4.5.2.2[FS]; 2.4.3.2.1.1.3[SS] | 2.4.5.2.4[FF] |
| 2.4.5.2.4 | Obtain additional pallet bridges (extrusions) and assemble pallets | Complete | 344d | 18Nov10 04Feb11 | 01Oct10 16Mar12 | None | | None | | 2.4.5.2.3[FF] | |
| 2.4.5.3 | Pallet Motion Systems | Complete | 365d | 08Feb10 18Jul11 | 03May10 26May11 | None | | None | | | |
| 2.4.5.3.1 | Motion System - Extrusion Vendor | Complete | 116d | 03Feb11 18Jul11 | 03May10 07Oct10 | None | | None | | | |
| 2.4.5.3.1.1 | Procure motion system components | Complete | 40d | 03Feb11 24Mar11 | 03May10 28Jun10 | None | | None | | 2.4.5.1[FS] | 2.4.5.3.1.2[FS] |
| 2.4.5.3.1.2 | Assemble pallet motion system | Complete | 20d | 28Mar11 18Jul11 | 10Sep10 07Oct10 | None | | None | | 2.4.5.3.1.1[FS]; 2.4.2.1.13[FS] | 2.4.3.2.5.1.3[FS] |
| 2.4.5.3.2 | Prototype caster-jack system | Complete | 100d | 04Jan11 31Jan11 | 03Jan11 23May11 | None | | None | | | 2.4.3.2.1.2.4[FS] |
| 2.4.5.3.3 | Motion System - Univ of Minnesota Factory | Complete | 80d | 08Feb10 28May10 | 03May10 28Oct10 | None | | None | | | |
| 2.4.5.3.3.1 | Procure motion system components (obsolete) | Complete | 40d | 08Feb10 27May10 | 03May10 28Jun10 | None | | None | | 2.4.5.1[FS] | 2.4.5.3.3.2[FS]; 2.4.5.3.4.1[SS] |
| 2.4.5.3.3.2 | Assemble pallet motion system (obsolete) | Complete | 20d | 28May10 28May10 | 01Oct10 28Oct10 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.4.5.3.3.1[FS] | |
| 2.4.5.3.4 | Motion System - Far Detector Site | Complete | 116d | 03Feb11 18Jul11 | 03May10 26May11 | None | | None | | | |
| 2.4.5.3.4.1 | Procure motion system components | Complete | 40d | 03Feb11 24Mar11 | 03May10 28Jun10 | None | | None | | 2.4.5.3.3.1[SS]; 2.4.5.1[FS] | 2.4.5.3.4.2[FS] |
| 2.4.5.3.4.2 | Assemble pallet motion system | Complete | 20d | 28Mar11 18Jul11 | 29Apr11 26May11 | None | | None | | 2.1.2.3.3[FS]; 2.1.2.5.22[FS]; 2.4.5.3.4.1[FS] | |
| 2.4.5.4 | Extrusion Storage at Vendor | In Progress | 713d | 29Nov10 27Sep13 | 01Oct10 27Sep13 | None | | None | | | |
| 2.4.5.4.1 | Storage - FY10 - FY11 | Complete | 215d | 29Nov10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.4.3.2.1.1.1[SS] | 2.4.5.4.2[FS] |
| 2.4.5.4.2 | Storage - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.5.4.1[FS] | 2.4.5.4.4[SS]; 2.4.5.4.3[FS] |
| 2.4.5.4.3 | Storage - FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.5.4.2[FS] | 2.4.5.4.5[SS] |
| 2.4.5.4.4 | Storage - supplemental | Complete | 164d | 04Sep12 30Apr13 | 04Sep12 30Apr13 | None | | None | | 2.4.5.4.2[SS] | 2.4.5.4.6[FS] |
| 2.4.5.4.5 | Storage - FY13 - supplemental - 2 | Complete | 123d | 01Oct12 29Mar13 | 01Oct12 29Mar13 | None | | None | | 2.4.5.4.3[SS] | 2.4.5.4.6[FS] |
| 2.4.5.4.6 | Storage - FY13 - supplemental - 3 | In Progress | 86d | 01May13 30Aug13 | 01May13 30Aug13 | None | | None | | 2.4.5.4.4[FS]; 2.4.5.4.5[FS] | 2.4.6.7.1.3[FF]; 2.4.6.7.1.4[FF] |
| 2.4.5.5 | Extrusion Sorting Device (ESD) | Complete | 154d | 14Dec09 26Jul10 | 16Mar10 03May10 | None | | None | | | |
| 2.4.5.5.1 | Extrusion Sorting Device (ESD) | Complete | 30d | 12Feb10 19May10 | 16Mar10 26Apr10 | None | | None | | 2.4.2.1.1[FS-40d] | 2.4.5.5.3[FS] |
| 2.4.5.5.2 | Make vacuum lifting fixtures | Complete | 30d | 14Dec09 26Jul10 | 16Mar10 26Apr10 | None | | None | | 2.4.2.1.1[FS-40d] | 2.4.5.5.3[FS] |
| 2.4.5.5.3 | Assemble and commission ESD | Complete | 5d | 06Jul10 26Jul10 | 27Apr10 03May10 | None | | None | | 2.4.5.5.1[FS]; 2.4.5.5.2[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.5.6 | Procure airbags for extrusion shipping | Complete | 45d | 25Oct10 09Nov10 | 25Oct10 30Dec10 | None | | None | | | 2.4.3.2.1.1.4[FS] |
| 2.4.5.7 | Maintenance and refurbishing of vacuum lifter suction cups | Complete | 229d | 01Nov11 28Sep12 | 01Nov11 28Sep12 | None | | None | | | |
| 2.4.6 | Management - Construction Phase | In Progress | 1506d | 01Oct07 27Sep13 | 01Oct07 27Sep13 | None | | None | | | |
| 2.4.6.2 | FY08 (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.4.6.2.1 | Argonne Management-FY08 (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.4.6.2.1.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.1.1[FS] |
| 2.4.6.2.1.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.1.2[FS] |
| 2.4.6.2.1.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.1.3[FS] |
| 2.4.6.2.1.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.1.4[FS] |
| 2.4.6.2.2 | FNAL Management-FY08 (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.4.6.2.2.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.2.1[FS] |
| 2.4.6.2.2.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.2.2[FS] |
| 2.4.6.2.2.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.2.3[FS] |
| 2.4.6.2.2.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.4.6.3.2.4[FS] |
| 2.4.6.3 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.4.6.3.1 | Argonne Management-FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | | |
| 2.4.6.3.1.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.1.1[FS]; 2.10.8.1[FS] | 2.4.6.4.1.1[FS]; 2.4.6.3.1.2[SS]; 2.4.6.3.1.4[SS]; 2.4.6.3.1.3[SS] |
| 2.4.6.3.1.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.1.2[FS]; 2.4.6.3.1.1[SS] | 2.4.6.4.1.2[FS] |
| 2.4.6.3.1.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.1.3[FS]; 2.4.6.3.1.1[SS] | 2.4.6.4.1.3[FS] |
| 2.4.6.3.1.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.1.4[FS]; 2.4.6.3.1.1[SS] | 2.4.6.4.1.4[FS] |
| 2.4.6.3.2 | FNAL Management-FY09 | Complete | 150d | 02Mar09 30Sep09 | 02Feb09 30Sep09 | None | | None | | | |
| 2.4.6.3.2.1 | Labor | Complete | 170d | 02Mar09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.2.1[FS]; 2.10.8.1[FS] | 2.4.6.4.2.1[FS]; 2.4.6.3.2.2[SS]; 2.4.6.3.2.3[SS]; 2.4.6.3.2.4[SS] |
| 2.4.6.3.2.2 | Travel | Complete | 170d | 02Mar09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.2.2[FS]; 2.4.6.3.2.1[SS] | 2.4.6.4.2.2[FS] |
| 2.4.6.3.2.3 | Equipment | Complete | 170d | 02Mar09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.2.3[FS]; 2.4.6.3.2.1[SS] | 2.4.6.4.2.3[FS] |
| 2.4.6.3.2.4 | Materials and supplies | Complete | 170d | 02Mar09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.4.6.2.2.4[FS]; 2.4.6.3.2.1[SS] | 2.4.6.4.2.4[FS] |
| 2.4.6.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.4.6.4.1 | Argonne Management-FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | | |
| 2.4.6.4.1.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.1.1[FS] | 2.4.6.5.1.1[FS] |
| 2.4.6.4.1.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.1.2[FS] | 2.4.6.5.1.2[FS] |
| 2.4.6.4.1.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.1.3[FS] | 2.4.6.5.1.3[FS] |
| 2.4.6.4.1.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.1.4[FS] | 2.4.6.5.1.4[FS] |
| 2.4.6.4.2 | FNAL Management-FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | | |
| 2.4.6.4.2.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.2.1[FS] | 2.4.6.5.2.1[FS] |
| 2.4.6.4.2.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.2.2[FS] | 2.4.6.5.2.2[FS] |
| 2.4.6.4.2.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.2.3[FS] | 2.4.6.5.2.3[FS] |
| 2.4.6.4.2.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.4.6.3.2.4[FS] | 2.4.6.5.2.4[FS] |
| 2.4.6.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.4.6.5.1 | Argonne Management-FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | | |
| 2.4.6.5.1.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.1.1[FS] | 2.4.6.6.1.1[FS] |
| 2.4.6.5.1.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.1.2[FS] | 2.4.6.6.1.2[FS] |
| 2.4.6.5.1.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.1.3[FS] | 2.4.6.6.1.3[FS] |
| 2.4.6.5.1.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.1.4[FS] | 2.4.6.6.1.4[FS] |
| 2.4.6.5.2 | FNAL Management-FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | | |
| 2.4.6.5.2.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.2.1[FS] | 2.4.6.6.2.1[FS] |
| 2.4.6.5.2.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.2.2[FS] | 2.4.6.6.2.2[FS] |
| 2.4.6.5.2.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.2.3[FS] | 2.4.6.6.2.3[FS] |
| 2.4.6.5.2.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.4.6.4.2.4[FS] | 2.4.6.6.2.4[FS] |
| 2.4.6.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4.6.6.1 | Argonne Management-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.4.6.6.1.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.1.1[FS] | 2.4.6.7.1.1[FS] |
| 2.4.6.6.1.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.1.2[FS] | 2.4.6.7.1.2[FS] |
| 2.4.6.6.1.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.1.3[FS] | 2.4.6.7.1.3[FS] |
| 2.4.6.6.1.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.1.4[FS] | 2.4.6.7.1.4[FS] |
| 2.4.6.6.2 | FNAL Management-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.4.6.6.2.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.2.1[FS] | 2.4.6.7.2.1[FS] |
| 2.4.6.6.2.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.2.2[FS] | 2.4.6.7.2.2[FS] |
| 2.4.6.6.2.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.2.3[FS] | 2.4.6.7.2.3[FS] |
| 2.4.6.6.2.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.4.6.5.2.4[FS] | 2.4.6.7.2.4[FS] |
| 2.4.6.7 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.4.6.7.1 | Argonne Management-FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | | |
| 2.4.6.7.1.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.1.1[FS] | |
| 2.4.6.7.1.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.1.2[FS] | |
| 2.4.6.7.1.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.5.4.6[FF]; 2.4.6.6.1.3[FS] | |
| 2.4.6.7.1.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.5.4.6[FF]; 2.4.6.6.1.4[FS] | |
| 2.4.6.7.2 | FNAL Management-FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | | |
| 2.4.6.7.2.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.2.1[FS] | |
| 2.4.6.7.2.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.2.2[FS] | |
| 2.4.6.7.2.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.2.3[FS] | |
| 2.4.6.7.2.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.4.6.6.2.4[FS] | |
| 2.5 | PVC Modules | In Progress | 1630d | 01Oct07 31Mar14 | 01Oct07 31Mar14 | None | | None | | | |
| 2.5.1 | End Seals | In Progress | 882d | 25Jan10 24Jul13 | 01Feb10 30May13 | None | | None | | | |
| 2.5.1.1 | Fiber Manifold Production | In Progress | 882d | 25Jan10 24Jul13 | 01Feb10 30May13 | None | | None | | | |
| 2.5.1.1.1 | Prepare fiber manifold final design and specifications | Complete | 155d | 25Jan10 24Jun11 | 01Feb10 08Sep10 | None | | None | | 2.4.2.1.13[FF+30d]; 2.4.2.2.13[FF+30d]; 2.10.8.2[FS]; 1.5.8.2[FS] | 2.5.1.2.6[SS+60d]; 2.5.1.1.2[FF+5d]; 2.5.1.2.1[FF+10d]; 2.5.2.1[FF+1d]; 2.5.1.1.10[FF] |
| 2.5.1.1.2 | Prepare and issue bid package for fabrication | Complete | 50d | 16Mar11 30Jun11 | 29Sep10 02Nov10 | None | | None | | 2.5.1.1.1[FF+5d] | 2.5.1.1.3[FF+20d] |
| 2.5.1.1.3 | Evaluate bids and choose fabricators | Complete | 60d | 15Apr11 01Aug11 | 17Nov10 02Dec10 | None | | None | | 2.5.1.1.2[FF+20d] | 2.5.1.1.4[FF+5d] |
| 2.5.1.1.4 | Prepare purchase order | Complete | 60d | 15Apr11 02Aug11 | 03Dec10 04Jan11 | None | | None | | 2.5.1.1.3[FF+5d] | 2.5.1.1.5[FS] |
| 2.5.1.1.5 | Manifold production purchase orders released | Complete | 0 | 03Aug11 03Aug11 | 05Jan11 05Jan11 | None | | None | | 2.5.1.1.11[FS]; 2.5.1.1.4[FS]; 2.10.9.8[FS] | 2.5.1.1.13[FS]; 2.5.1.1.6[FF+45d]; 2.5.1.1.17[FS]; 2.5.1.1.8[FS] |
| 2.5.1.1.6 | Make molds and fabricate preproduction articles | Complete | 80d | 02May11 28Feb12 | 22Mar11 13Jul11 | None | | None | | 2.5.1.1.5[FF+45d] | 2.5.1.1.7[FF-10d] |
| 2.5.1.1.7 | Evaluate preproduction articles | Complete | 10d | 24Oct11 29Feb12 | 21Apr11 04May11 | None | | None | | 2.5.1.1.6[FF-10d] | 2.5.3.3.2.1.1.1[FS]; 2.5.1.1.13[FS] |
| 2.5.1.1.8 | Fabricate and deliver production manifold components (OBSOLETE) | Complete | 1d | 01Feb12 01Feb12 | 01Feb12 01Feb12 | None | | None | | 2.5.1.1.5[FS] | 2.5.1.1.9[SS+1d] |
| 2.5.1.1.9 | Evaluate samples from full production run (OBSOLETE) | Complete | 1d | 02Feb12 02Feb12 | 02Feb12 02Feb12 | None | | None | | 2.5.1.1.8[SS+1d] | 2.5.3.3.2.1.2.1[SS+1d] |
| 2.5.1.1.10 | Prepare fiber manifold final design and specifications - supplemental | Complete | 28d | 15Sep10 27Jul11 | 01Sep10 11Oct10 | None | | None | | 2.5.1.1.1[FF] | |
| 2.5.1.1.11 | Study cracks and redesign manifold cover | Complete | 82d | 01Sep10 27Jul11 | 01Sep10 30Dec10 | None | | None | | | 2.5.1.1.5[FS] |
| 2.5.1.1.12 | Manifold parts available for block 1 module completion | Complete | 0 | 30Apr12 30Apr12 | 14May12 14May12 | None | | None | | 2.5.1.1.13[SS+10d]; 2.5.1.1.21[SS+10d] | 2.5.3.3.2.1.2.1[FF] |
| 2.5.1.1.13 | Fabricate production manifold covers - Lot 1 | Complete | 22d | 02Apr12 12Sep12 | 01May12 31May12 | None | | None | | 2.5.1.1.5[FS]; 2.5.1.1.7[FS] | 2.5.1.1.12[SS+10d]; 2.5.3.3.2.3.1.1[SS+10d]; 2.5.3.3.2.7.1.1[FS]; 2.5.3.3.2.5.1.1[SS+15d]; 2.5.1.1.14[FS+21d] |
| 2.5.1.1.14 | Fabricate production manifold covers - Lot 2 | Complete | 21d | 12Sep12 30Nov12 | 15Oct12 12Nov12 | None | | None | | 2.5.1.1.13[FS+21d] | 2.5.3.3.2.8.1.1[SS+3d]; 2.5.3.3.2.14.1.1[FS]; 2.5.1.1.15[FS+12d] |
| 2.5.1.1.15 | Fabricate production manifold covers - Lot 3 | Complete | 18d | 30Nov12 29Apr13 | 03Dec12 28Dec12 | None | | None | | 2.5.1.1.14[FS+12d] | 2.5.3.3.2.15.1.1[SS+3d]; 2.5.3.3.2.21.1.1[FS]; 2.5.1.1.16[FS] |
| 2.5.1.1.16 | Fabricate production manifold covers - Lot 4 | Complete | 21d | 29Apr13 29May13 | 01May13 30May13 | None | | None | | 2.5.1.1.15[FS] | 2.5.3.3.2.28.1.1[FS]; 2.5.3.3.2.22.1.1[SS+3d] |
| 2.5.1.1.17 | Fabricate and deliver other production manifold components - Lot 1 | Complete | 22d | 02Apr12 31Aug12 | 01May12 31May12 | None | | None | | 2.5.1.1.5[FS] | 2.5.1.1.18[FS+21d]; 2.5.1.1.21[SS] |
| 2.5.1.1.18 | Fabricate and deliver other production manifold components - Lot 2 | Complete | 21d | 04Sep12 28Jan13 | 15Oct12 12Nov12 | None | | None | | 2.5.1.1.17[FS+21d] | 2.5.1.1.22[SS]; 2.5.1.1.19[FS+12d] |
| 2.5.1.1.19 | Fabricate and deliver other production manifold components - Lot 3 | Complete | 20d | 28Jan13 10May13 | 01Feb13 28Feb13 | None | | None | | 2.5.1.1.18[FS+12d] | 2.5.1.1.23[SS]; 2.5.1.1.20[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.1.1.20 | Fabricate and deliver other production manifold components - Lot 4 | In Progress | 21d | 10May13 24Jul13 | 01May13 30May13 | None | | None | | 2.5.1.1.19[FS] | 2.5.1.1.24[SS] |
| 2.5.1.1.21 | Evaluate samples from full production run - Lot 1 | Complete | 22d | 02Apr12 31Aug12 | 01May12 31May12 | None | | None | | 2.5.1.1.17[SS] | 2.5.1.1.12[SS+10d] |
| 2.5.1.1.22 | Evaluate samples from full production run - Lot 2 | Complete | 21d | 04Sep12 28Jan13 | 15Oct12 12Nov12 | None | | None | | 2.5.1.1.18[SS] | 2.5.3.3.2.8.1.1[SS+3d]; 2.5.3.3.2.14.1.1[FS] |
| 2.5.1.1.23 | Evaluate samples from full production run - Lot 3 | Complete | 20d | 28Jan13 13May13 | 01Feb13 28Feb13 | None | | None | | 2.5.1.1.19[SS] | 2.5.3.3.2.15.1.1[SS+3d]; 2.5.3.3.2.21.1.1[FS] |
| 2.5.1.1.24 | Evaluate samples from full production run - Lot 4 | In Progress | 21d | 13May13 24Jul13 | 01May13 30May13 | None | | None | | 2.5.1.1.20[SS] | 2.5.3.3.2.28.1.1[FS]; 2.5.3.3.2.22.1.1[SS+3d] |
| 2.5.1.2 | End Plate and Seal Production | Complete | 636d | 25Jan10 31Jul12 | 22Feb10 31Jan13 | None | | None | | | |
| 2.5.1.2.1 | Prepare end plate and seal final design and specifications | Complete | 155d | 25Jan10 24Jun11 | 22Feb10 29Sep10 | None | | None | | 2.10.8.2[FS]; 2.5.1.1.1[FF+10d]; 1.5.8.4[FS] | 2.5.1.2.2[FF+5d] |
| 2.5.1.2.2 | Prepare and issue bid packages for fabrication | Complete | 50d | 05Apr11 30Jun11 | 29Sep10 02Nov10 | None | | None | | 2.5.1.2.1[FF+5d] | 2.5.1.2.3[FF+20d] |
| 2.5.1.2.3 | Evaluate bids and choose fabricators | Complete | 60d | 19May11 29Jul11 | 17Nov10 02Dec10 | None | | None | | 2.5.1.2.2[FF+20d] | 2.5.1.2.4[FF+5d] |
| 2.5.1.2.4 | Prepare purchase orders | Complete | 60d | 24May11 29Jul11 | 03Dec10 04Jan11 | None | | None | | 2.5.1.2.3[FF+5d] | 2.5.1.2.5[FS] |
| 2.5.1.2.5 | End plate and seals production purchase orders released | Complete | 0 | 03Aug11 03Aug11 | 05Jan11 05Jan11 | None | | None | | 2.5.1.2.4[FS] | 2.5.1.2.7[FF+51d]; 2.5.1.2.9[FS] |
| 2.5.1.2.6 | Procure edge stiffeners | Complete | 60d | 16May11 31May11 | 05Jan11 30Mar11 | None | | None | | 2.5.1.1.1[SS+60d] | 2.5.3.3.2.1.2.1[FS]; 2.5.3.3.2.1.1.1[FS] |
| 2.5.1.2.7 | Make molds, dies and fabricate preproduction articles | Complete | 60d | 26May11 28Feb12 | 22Mar11 14Jun11 | None | | None | | 2.5.1.2.5[FF+51d] | 2.5.1.2.8[FF-10d] |
| 2.5.1.2.8 | Evaluate preproduction plates and seals | Complete | 10d | 01Nov11 29Feb12 | 21Apr11 04May11 | None | | None | | 2.5.1.2.7[FF-10d] | 2.5.3.3.2.1.1.1[FS]; 2.5.1.2.13[FS] |
| 2.5.1.2.9 | Fabricate and deliver production end plates and seals (OBSOLETE) | Complete | 1d | 01Feb12 01Feb12 | 01Feb12 01Feb12 | None | | None | | 2.5.1.2.5[FS] | 2.5.1.2.10[FF+1d] |
| 2.5.1.2.10 | Evaluate samples from full production run (OBSOLETE) | Complete | 1d | 02Feb12 02Feb12 | 02Feb12 02Feb12 | None | | None | | 2.5.1.2.9[FF+1d] | 2.5.3.3.2.1.1.1[SS+1d] |
| 2.5.1.2.12 | End plate and seals available for block 1 module completion | Complete | 0 | 30Apr12 30Apr12 | 14May12 14May12 | None | | None | | 2.5.1.2.17[SS+10d] | 2.5.3.3.2.1.2.1[FF] |
| 2.5.1.2.13 | Fabricate and deliver production end plates and seals - Lot 1 | Complete | 22d | 02Apr12 30Apr12 | 01May12 31May12 | None | | None | | 2.5.1.2.8[FS] | 2.5.1.2.14[FS+43d]; 2.5.1.2.17[SS] |
| 2.5.1.2.14 | Fabricate and deliver production end plates and seals - Lot 2 | Complete | 21d | 29May12 19Jul12 | 02Jul12 31Jul12 | None | | None | | 2.5.1.2.13[FS+43d] | 2.5.1.2.15[FS+42d]; 2.5.1.2.18[SS] |
| 2.5.1.2.15 | Fabricate and deliver production end plates and seals - Lot 3 | Complete | 23d | 02Jul12 19Jul12 | 01Oct12 31Oct12 | None | | None | | 2.5.1.2.14[FS+42d] | 2.5.1.2.19[SS]; 2.5.1.2.16[FS+38d] |
| 2.5.1.2.16 | Fabricate and deliver production end plates and seals - Lot 4 | Complete | 21d | 02Jul12 19Jul12 | 02Jan13 31Jan13 | None | | None | | 2.5.1.2.15[FS+38d] | 2.5.1.2.20[SS] |
| 2.5.1.2.17 | Evaluate samples from full production run - Lot 1 | Complete | 22d | 02Apr12 30Apr12 | 01May12 31May12 | None | | None | | 2.5.1.2.13[SS] | 2.5.1.2.12[SS+10d] |
| 2.5.1.2.18 | Evaluate samples from full production run - Lot 2 | Complete | 21d | 29May12 23Jul12 | 02Jul12 31Jul12 | None | | None | | 2.5.1.2.14[SS] | 2.5.3.3.2.8.1.1[FS] |
| 2.5.1.2.19 | Evaluate samples from full production run - Lot 3 | Complete | 23d | 23Jul12 26Jul12 | 01Oct12 31Oct12 | None | | None | | 2.5.1.2.15[SS] | 2.5.3.3.2.16.1.1[FS] |
| 2.5.1.2.20 | Evaluate samples from full production run - Lot 4 | Complete | 21d | 26Jul12 31Jul12 | 02Jan13 31Jan13 | None | | None | | 2.5.1.2.16[SS] | 2.5.3.3.2.23.1.1[FS] |
| 2.5.2 | Optical Connector Production | Complete | 520d | 25Jan10 16Feb12 | 28Jul10 02Feb12 | None | | None | | | |
| 2.5.2.1 | Prepare optical connector final design and specifications | Complete | 40d | 25Jan10 01Jul11 | 28Jul10 22Sep10 | None | | None | | 2.10.8.2[FS]; 2.5.1.1.1[FF+1d] | 2.5.2.2[FF+4d] |
| 2.5.2.2 | Prepare and issue bid package for fabrication | Complete | 1d | 01Jul11 01Jul11 | 29Sep10 02Nov10 | None | | None | | 2.5.2.1[FF+4d] | 2.5.2.3[FS+2d] |
| 2.5.2.3 | Evaluate bids and choose fabricator | Complete | 2d | 18Jul11 19Jul11 | 17Nov10 02Dec10 | None | | None | | 2.5.2.2[FS+2d] | 2.5.2.4[FS] |
| 2.5.2.4 | Prepare purchase order | Complete | 1d | 19Jul11 19Jul11 | 03Dec10 04Jan11 | None | | None | | 2.5.2.3[FS] | 2.5.2.5[FS+2d] |
| 2.5.2.5 | Optical connector production purchase order released | Complete | 0 | 25Jul11 25Jul11 | 05Jan11 05Jan11 | None | | None | | 2.5.2.4[FS+2d] | 2.5.2.6[FS] |
| 2.5.2.6 | Make molds and fabricate preproduction articles | Complete | 38d | 27Jul11 18Jan12 | 22Mar11 14Jun11 | None | | None | | 2.5.2.5[FS] | 2.5.2.7[FS] |
| 2.5.2.7 | Evaluate preproduction articles | Complete | 5d | 17Nov11 18Jan12 | 31Mar11 13Apr11 | None | | None | | 2.5.2.6[FS] | 2.5.3.3.2.1.1.1[FS]; 2.5.2.8[FS] |
| 2.5.2.8 | Fabricate production optical connectors | Complete | 7d | 25Jan12 16Feb12 | 14Apr11 16Jun11 | None | | None | | 2.5.2.7[FS] | 2.5.2.9[FF+4d] |
| 2.5.2.9 | Evaluate samples from full production run | Complete | 10d | 02Feb12 16Feb12 | 20Jan12 02Feb12 | None | | None | | 2.5.2.8[FF+4d] | 2.5.2.12[FS]; 2.5.2.11[FS]; 2.5.3.3.2.1.2.1[FS] |
| 2.5.2.11 | Optical connector parts production for Block 1 completed | Complete | 0 | 02Feb12 02Feb12 | 02Feb12 02Feb12 | None | | None | | 2.5.2.9[FS] | 2.5.3.3.2.1.1.1[FF+7d]; 2.5.3.3.2.1.2.1[FS] |
| 2.5.2.12 | Optical connector parts production completed | Complete | 0 | 16Feb12 16Feb12 | 02Feb12 02Feb12 | None | | None | | 2.5.2.9[FS] | 2.5.3.3.2.1.2.1[FS] |
| 2.5.3 | Module Production | In Progress | 1117d | 15Oct09 31Mar14 | 08Oct09 31Mar14 | None | | None | | | |
| 2.5.3.1 | Factory Machines, Tooling, & Fixtures | Complete | 753d | 01Apr10 29Mar13 | 01Apr10 27Mar13 | None | | None | | | |
| 2.5.3.1.1 | Fabricate and deliver extrusion lifter(s) | Complete | 160d | 17Aug10 28Jun11 | 09Jun10 28Jan11 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.10.4.3[FS] | 2.5.3.1.12[FS]; 2.5.3.2.6.7[SS+30d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.1.2 | Fabricate extrusions for pressure test tank modules | Complete | 40d | 04Oct10 05Jan11 | 04Oct10 30Nov10 | None | | None | | | 2.5.3.1.14[FS] |
| 2.5.3.1.3 | Fabricate and deliver tooling and fixtures | Complete | 160d | 05Apr10 28Feb12 | 01Apr10 15Nov10 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS] |
| 2.5.3.1.4 | Fabricate and deliver pressure testing equipment | Complete | 160d | 01Apr10 30Nov11 | 09Jun10 28Jan11 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.10.4.3[FS] | 2.5.3.1.12[FS-8d]; 2.5.3.1.14[FF]; 2.5.3.2.6.2[FF]; 2.5.3.2.6.2[SS+30d] |
| 2.5.3.1.5 | Material Handling and Storage Equipment Fabrication | Complete | 419d | 05Apr10 30Nov11 | 01Apr10 18Jan12 | None | | None | | | |
| 2.5.3.1.5.1 | Fabricate material handling and storage equipment for Block 1 start | Complete | 160d | 05Apr10 30Nov11 | 01Apr10 15Nov10 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS]; 2.5.3.1.5.2[FS]; 2.5.3.2.6.6[FS] |
| 2.5.3.1.5.2 | Fabricate material handling and storage equipment for Block 2 start (OBSOLETE) | Complete | 1d | 16Nov10 16Nov10 | 16Nov10 16Nov10 | None | | None | | 2.5.3.1.5.1[FS] | 2.5.3.1.5.3[FS] |
| 2.5.3.1.5.3 | Fabricate material handling and storage equipment for Block 3 start (OBSOLETE) | Complete | 1d | 17Nov10 17Nov10 | 17Nov10 17Nov10 | None | | None | | 2.5.3.1.5.2[FS] | 2.5.3.1.5.4[FS] |
| 2.5.3.1.5.4 | Fabricate material handling and storage equipment for Block 4 start (OBSOLETE) | Complete | 1d | 18Nov10 18Nov10 | 18Nov10 18Nov10 | None | | None | | 2.5.3.1.5.3[FS] | |
| 2.5.3.1.5.5 | Issue PO for additional tilting tables | Complete | 1d | 15Jul11 15Jul11 | 15Jul11 15Jul11 | None | | None | | | 2.5.3.1.5.6[FS+105d] |
| 2.5.3.1.5.6 | Receive additional tilting tables | Complete | 20d | 17Oct11 17Oct11 | 15Dec11 18Jan12 | None | | None | | 2.5.3.1.5.5[FS+105d] | 2.5.3.3.2.4.1.1[FS] |
| 2.5.3.1.6 | Gluing Machines Procurement | Complete | 98d | 01Apr10 18Aug10 | 01Apr10 27Aug10 | None | | None | | | 2.5.3.1.12[FS] |
| 2.5.3.1.6.1 | Prepare and issue bid packages for gluing machines | Complete | 25d | 01Apr10 01Apr10 | 01Apr10 05May10 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.6.2[FS] |
| 2.5.3.1.6.2 | Evaluate bids and choose vendors | Complete | 10d | 09Apr10 09Apr10 | 06May10 19May10 | None | | None | | 2.5.3.1.6.1[FS] | 2.5.3.1.6.3[FS] |
| 2.5.3.1.6.3 | Prepare purchase orders | Complete | 20d | 12Apr10 04May10 | 20May10 17Jun10 | None | | None | | 2.5.3.1.6.2[FS] | 2.5.3.1.6.4[FS+25d] |
| 2.5.3.1.6.4 | Purchase gluing machines | Complete | 25d | 01Jul10 18Aug10 | 26Jul10 27Aug10 | None | | None | | 2.5.3.1.6.3[FS+25d] | 2.5.3.1.6.5[FS] |
| 2.5.3.1.6.5 | Gluing machines delivered | Complete | 0 | 18Aug10 18Aug10 | 27Aug10 27Aug10 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.5.3.1.6.4[FS] | 2.5.3.1.12[FS]; 2.5.3.2.6.5[FS] |
| 2.5.3.1.7 | Fabricate fiber stringing machines | Complete | 156d | 04May10 10Aug11 | 15Jun10 28Jan11 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS]; 2.5.3.2.6.1[FF]; 2.5.3.2.6.1[SS+30d] |
| 2.5.3.1.8 | Fabricate and deliver fiber checking machine | Complete | 155d | 01Jun10 30Aug11 | 01Jun10 12Jan11 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS]; 2.5.3.2.6.3[FS] |
| 2.5.3.1.9 | Floor Crane Procurement | Complete | 30d | 01Apr10 12May10 | 01Apr10 27Aug10 | None | | None | | | |
| 2.5.3.1.9.1 | Prepare and issue bid packages for floor cranes | Complete | 25d | 01Apr10 01Apr10 | 01Apr10 05May10 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.9.2[FS] |
| 2.5.3.1.9.2 | Evaluate bids and choose vendors | Complete | 10d | 14Apr10 14Apr10 | 06May10 19May10 | None | | None | | 2.5.3.1.9.1[FS] | 2.5.3.1.9.3[FS] |
| 2.5.3.1.9.3 | Prepare purchase orders | Complete | 20d | 15Apr10 15Apr10 | 20May10 17Jun10 | None | | None | | 2.5.3.1.9.2[FS] | 2.5.3.1.9.4[FS+25d] |
| 2.5.3.1.9.4 | Purchase floor cranes | Complete | 25d | 12May10 12May10 | 26Jul10 27Aug10 | None | | None | | 2.5.3.1.9.3[FS+25d] | 2.5.3.1.9.5[FS] |
| 2.5.3.1.9.5 | Floor cranes delivered | Complete | 0 | 12May10 12May10 | 27Aug10 27Aug10 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.5.3.1.9.4[FS] | 2.5.3.1.12[FS]; 2.5.3.2.6.9[FS] |
| 2.5.3.1.10 | Fabricate fiber facing machines | Complete | 120d | 30Aug10 30Jan12 | 01Nov10 25Apr11 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS+64d]; 2.5.3.2.6.4[FF+10d]; 2.5.3.2.6.4[SS+70d] |
| 2.5.3.1.11 | Procure QA system hardware | Complete | 55d | 14Jun10 30Aug10 | 28Jun10 14Sep10 | None | | None | | 1.5.9.2[FS]; 1.5.9.4[FS] | 2.5.3.2.6.8[FS]; 2.5.3.1.16[FF+20d]; 2.5.3.3.4[FS]; 2.5.3.1.12[FS] |
| 2.5.3.1.12 | Review factory tooling, machines, and fixtures | Complete | 5d | 01Jun12 21Jun12 | 17Jan12 23Jan12 | None | | None | | 2.5.3.1.13[FS]; 2.5.3.1.3[FS]; 2.5.3.1.8[FS]; 2.5.3.1.4[FS-8d]; 2.5.3.1.1[FS]; 2.5.3.1.7[FS]; 2.5.3.1.10[FS+64d]; 2.5.3.1.6[FS]; 2.5.3.1.5.1[FS]; 2.5.3.1.9.5[FS]; 2.5.3.1.6.5[FS]; 2.5.3.2.1.3.1[SS-20d]; 2.5.3.1.11[FS] | 2.5.3.2.7[FS] |
| 2.5.3.1.13 | Fabricate and deliver module flatness QA/QC device | Complete | 100d | 02Aug10 14Dec12 | 02Aug10 22Dec10 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.1.12[FS] |
| 2.5.3.1.14 | Fabricate and deliver additional pressure testing equipment | Complete | 60d | 02Aug11 29Jan12 | 24Aug11 16Nov11 | None | | None | | 2.5.3.1.2[FS]; 2.5.3.1.4[FF] | 2.5.3.3.2.1.1.2[FS]; 2.5.3.3.2.1.2.2[FS] |
| 2.5.3.1.15 | Fabricate and deliver additional tooling, fixtures, and safety equipment | Complete | 311d | 17Jan12 29Mar13 | 03Jan12 27Mar13 | None | | None | | | |
| 2.5.3.1.16 | Procure quality assurance system hardware - supplemental | Complete | 45d | 03Aug10 17Jun11 | 05Aug10 07Oct10 | None | | None | | 2.5.3.1.11[FF+20d] | 2.5.3.1.21[FS]; 2.5.3.2.6.8[FF] |
| 2.5.3.1.17 | Module materials handling equipment - additional | Complete | 43d | 01Jun11 27Jun11 | 01Jul11 31Aug11 | None | | None | | | 2.5.3.3.2.1.1.1[FS] |
| 2.5.3.1.18 | Flatness structure studies | Complete | 43d | 02May11 15Jul11 | 02May11 30Jun11 | None | | None | | | 2.9.4.8.6[FS]; 2.9.4.3.2[FS] |
| 2.5.3.1.19 | Procure lifetime-strength testing equipment | Complete | 76d | 15Jul11 17Nov11 | 15Jul11 31Oct11 | None | | None | | | 2.5.3.3.2.1.1.1[FS-42d] |
| 2.5.3.1.20 | Fabricate and deliver additional module fixturing | Complete | 100d | 01Aug11 31Oct11 | 01Aug11 21Dec11 | None | | None | | 2.5.3.1.21[SS] | 2.5.3.3.2.1.1.1[SS+40d] |
| 2.5.3.1.21 | Fabricate and deliver additional QA equipment | Complete | 80d | 01Aug11 15Dec11 | 01Aug11 21Nov11 | None | | None | | 2.5.3.1.16[FS] | 2.5.3.1.20[SS]; 2.5.3.3.2.1.1.1[SS+40d] |
| 2.5.3.1.22 | Upgrade WiFi and security for factory QA system | Complete | 31d | 17Oct11 16Dec11 | 17Oct11 30Nov11 | None | | None | | 2.5.3.2.6.17[SS] | 2.5.3.2.6.10[FS] |
| 2.5.3.2 | Factory Setup and Operation | In Progress | 1117d | 15Oct09 31Mar14 | 08Oct09 31Mar14 | None | | None | | | |
| 2.5.3.2.1 | Factory Lease | In Progress | 1117d | 15Oct09 31Mar14 | 08Oct09 31Mar14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.2.1.1 | Identify factory space | Complete | 60d | 15Oct09 10Dec09 | 08Oct09 07Jan10 | None | | None | | 2.10.8.2[FS] | 2.5.3.2.1.2[FS] |
| 2.5.3.2.1.2 | Sign lease agreement for factory space | Complete | 1d | 23Feb10 23Feb10 | 08Feb10 08Feb10 | None | | None | | 2.5.3.2.1.1[FS] | 2.5.3.2.4.1.1[FS]; 2.5.3.2.3.1.1[FS]; 2.5.3.2.3.2.1[FS]; 2.5.3.2.2[FS] |
| 2.5.3.2.1.3 | Factory Space Occupancy | In Progress | 1004d | 01Apr10 31Mar14 | 01Apr10 31Mar14 | None | | None | | | |
| 2.5.3.2.1.3.1 | Occupy factory space - year 1 | Complete | 252d | 01Apr10 31Mar11 | 01Apr10 31Mar11 | None | | None | | 2.5.3.2.2[SS+27d] | 2.5.3.1.8[SS]; 2.5.3.1.6.1[SS]; 2.5.3.1.5.1[SS]; 2.5.3.1.4[SS]; 2.5.3.1.9.1[SS]; 2.5.3.1.10[SS]; 2.5.3.1.1[SS]; 2.5.3.1.13[SS]; 2.5.3.1.9.5[SS]; 2.5.3.2.6.9[SS]; 2.5.3.1.6.5[SS]; 2.5.3.2.6.5[SS]; 2.5.3.2.6.8[SS]; 2.5.3.2.6.3[SS]; 2.5.3.2.3.2.4[SS]; 2.4.5.3.3.2[SS]; 2.5.3.2.6.7[SS]; 2.5.3.2.4.2[SS+1d]; 2.5.3.2.6.1[SS]; 2.5.3.2.6.2[SS]; 2.5.3.1.3[SS]; 2.5.3.2.6.6[SS]; 2.5.3.2.6.4[SS]; 2.5.3.2.3.1.4[SS]; 2.5.3.1.12[SS-20d]; 2.5.3.1.7[SS]; 2.5.3.2.3.1.5[SS+1d]; 2.5.3.2.1.3.2[FS]; 2.5.3.2.5.1[SS] |
| 2.5.3.2.1.3.2 | Occupy factory space - year 2 | Complete | 251d | 01Apr11 30Mar12 | 01Apr11 30Mar12 | None | | None | | 2.5.3.2.1.3.1[FS] | 2.5.3.2.1.3.3[FS]; 2.5.3.2.5.2[SS] |
| 2.5.3.2.1.3.3 | Occupy factory space - year 3 | Complete | 250d | 02Apr12 29Mar13 | 02Apr12 29Mar13 | None | | None | | 2.5.3.2.1.3.2[FS] | 2.5.3.2.1.3.7[FS]; 2.5.3.2.5.3[SS] |
| 2.5.3.2.1.3.4 | Occupy additional factory space for finished module storage (21132 ft2) | Complete | 128d | 01Feb12 31Jul12 | 01Feb12 31Jul12 | None | | None | | | 2.5.3.2.1.3.6[FS] |
| 2.5.3.2.1.3.5 | Occupy additional factory space for module parts storage (1600 ft2) | Complete | 252d | 01Feb12 31Jan13 | 01Feb12 31Jan13 | None | | None | | | 2.5.3.2.1.3.10[FS] |
| 2.5.3.2.1.3.6 | Occupy additional factory space for module parts storage (21132 ft2) - supplemental | Complete | 65d | 01Aug12 31Oct12 | 01Aug12 31Oct12 | None | | None | | 2.5.3.2.1.3.4[FS] | 2.5.3.2.1.3.8[FS]; 2.5.3.2.8[FS] |
| 2.5.3.2.1.3.7 | Occupy factory space - year 4 | In Progress | 251d | 01Apr13 31Mar14 | 01Apr13 31Mar14 | None | | None | | 2.5.3.2.1.3.3[FS] | 2.5.3.2.8[FF]; 2.10.8.3[FS] |
| 2.5.3.2.1.3.8 | Occupy additional factory space for module storage (21132 ft2) - supplemental 2 | Complete | 59d | 01Nov12 31Jan13 | 01Nov12 31Jan13 | None | | None | | 2.5.3.2.1.3.6[FS] | 2.5.3.2.1.3.9[FS] |
| 2.5.3.2.1.3.9 | Occupy additional factory space for module storage (21132 ft2) - supplement 3 | In Progress | 127d | 01Feb13 31Jul13 | 01Feb13 31Jul13 | None | | None | | 2.5.3.2.1.3.8[FS] | 2.5.3.2.8[FS]; 2.5.3.2.1.3.11[FS] |
| 2.5.3.2.1.3.10 | Occupy additional factory space for module parts storage (1600 ft2) - supplement 1 | In Progress | 127d | 01Feb13 31Jul13 | 01Feb13 31Jul13 | None | | None | | 2.5.3.2.1.3.5[FS] | 2.5.3.2.8[FS]; 2.5.3.2.1.3.12[FS] |
| 2.5.3.2.1.3.11 | Occupy additional factory space for module storage (21132 ft2) - supplement 4 | Planned | 22d | 01Aug13 30Aug13 | 01Aug13 30Aug13 | None | | None | | 2.5.3.2.1.3.9[FS] | 2.5.3.2.8[FS] |
| 2.5.3.2.1.3.12 | Occupy additional factory space for module parts storage (1600 ft2) - supplement 2 | Planned | 65d | 01Aug13 31Oct13 | 01Aug13 31Oct13 | None | | None | | 2.5.3.2.1.3.10[FS] | 2.5.3.2.8[FS] |
| 2.5.3.2.2 | Factory Space Outfitting | Complete | 107d | 23Feb10 01Apr10 | 09Feb10 09Jul10 | None | | None | | 2.5.3.2.1.2[FS] | 2.5.3.2.1.3.1[SS+27d] |
| 2.5.3.2.3 | Additional Factory HVAC (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 12Feb10 18Feb10 | None | | None | | | |
| 2.5.3.2.3.1 | Air Conditioning (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 12Feb10 18Feb10 | None | | None | | | |
| 2.5.3.2.3.1.1 | Prepare and issue bid packages for air conditioning (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 12Feb10 12Feb10 | None | | None | | 2.5.3.2.1.2[FS] | 2.5.3.2.3.1.2[FS] |
| 2.5.3.2.3.1.2 | Evaluate bids and choose contractors (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 15Feb10 15Feb10 | None | | None | | 2.5.3.2.3.1.1[FS] | 2.5.3.2.3.1.3[FS] |
| 2.5.3.2.3.1.3 | Prepare purchase orders (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 16Feb10 16Feb10 | None | | None | | 2.5.3.2.3.1.2[FS] | 2.5.3.2.3.1.4[FS] |
| 2.5.3.2.3.1.4 | Purchase orders released to contractors (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 17Feb10 17Feb10 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.5.3.2.3.1.3[FS] | 2.5.3.2.3.1.5[FS] |
| 2.5.3.2.3.1.5 | Install factory air conditioning (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 18Feb10 18Feb10 | None | | None | | 2.5.3.2.1.3.1[SS+1d]; 2.5.3.2.3.1.4[FS] | |
| 2.5.3.2.3.2 | Ventilation (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 12Feb10 18Feb10 | None | | None | | | |
| 2.5.3.2.3.2.1 | Prepare and issue bid packages for ventilation (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 12Feb10 12Feb10 | None | | None | | 2.5.3.2.1.2[FS] | 2.5.3.2.3.2.2[FS] |
| 2.5.3.2.3.2.2 | Evaluate bids and choose contractors (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 15Feb10 15Feb10 | None | | None | | 2.5.3.2.3.2.1[FS] | 2.5.3.2.3.2.3[FS] |
| 2.5.3.2.3.2.3 | Prepare purchase orders (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 16Feb10 16Feb10 | None | | None | | 2.5.3.2.3.2.2[FS] | 2.5.3.2.3.2.4[FS] |
| 2.5.3.2.3.2.4 | Purchase orders released to contractors (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 17Feb10 17Feb10 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.5.3.2.3.2.3[FS] | 2.5.3.2.3.2.5[FS] |
| 2.5.3.2.3.2.5 | Install factory ventilation (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 18Feb10 18Feb10 | None | | None | | 2.5.3.2.3.2.4[FS] | |
| 2.5.3.2.4 | Additional Factory Utilities and Preparation (OBSOLETE) | Complete | 8d | 20Jan10 29Jan10 | 20Jan10 18Feb10 | None | | None | | | |
| 2.5.3.2.4.1 | Electrical Upgrades (OBSOLETE) | Complete | 5d | 20Jan10 26Jan10 | 20Jan10 26Jan10 | None | | None | | | |
| 2.5.3.2.4.1.1 | Prepare and issue bid packages for electrical work (OBSOLETE) | Complete | 1d | 20Jan10 20Jan10 | 20Jan10 20Jan10 | None | | None | | 2.5.3.2.1.2[FS] | 2.5.3.2.4.1.2[FS] |
| 2.5.3.2.4.1.2 | Evaluate bids and choose contractors (OBSOLETE) | Complete | 1d | 21Jan10 21Jan10 | 21Jan10 21Jan10 | None | | None | | 2.5.3.2.4.1.1[FS] | 2.5.3.2.4.1.3[FS] |
| 2.5.3.2.4.1.3 | Prepare purchase orders (OBSOLETE) | Complete | 1d | 22Jan10 22Jan10 | 22Jan10 22Jan10 | None | | None | | 2.5.3.2.4.1.2[FS] | 2.5.3.2.4.1.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.2.4.1.4 | Purchase orders released to contractors (OBSOLETE) | Complete | 1d | 25Jan10 25Jan10 | 25Jan10 25Jan10 | None | | None | | 2.5.3.2.4.1.3[FS] | 2.5.3.2.4.1.5[FS] |
| 2.5.3.2.4.1.5 | Install electrical upgrades (OBSOLETE) | Complete | 1d | 26Jan10 26Jan10 | 26Jan10 26Jan10 | None | | None | | 2.5.3.2.4.1.4[FS] | 2.5.3.2.6.7[FS]; 2.5.3.2.6.2[FS]; 2.5.3.2.6.3[FS]; 2.5.3.2.6.6[FS]; 2.5.3.2.6.4[FS]; 2.5.3.2.6.9[FS]; 2.5.3.2.6.5[FS]; 2.5.3.2.6.1[FS] |
| 2.5.3.2.4.2 | Compressed air installation and other preparations (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 18Feb10 18Feb10 | None | | None | | 2.5.3.2.1.3.1[SS+1d] | |
| 2.5.3.2.5 | Factory Space Operation | In Progress | 1004d | 01Apr10 31Mar14 | 01Apr10 31Mar14 | Not Earlier Than | 01Oct09 | None | | | |
| 2.5.3.2.5.1 | Operate factory space - year 1 | Complete | 252d | 01Apr10 31Mar11 | 01Apr10 31Mar11 | None | | None | | 2.5.3.2.1.3.1[SS] | 2.5.3.2.6.14[SS]; 2.5.3.2.6.15[SS]; 2.5.3.2.5.2[FS] |
| 2.5.3.2.5.2 | Operate factory space - year 2 | Complete | 251d | 01Apr11 30Mar12 | 01Apr11 30Mar12 | None | | None | | 2.5.3.2.5.1[FS]; 2.5.3.2.1.3.2[SS] | 2.5.3.2.5.3[FS] |
| 2.5.3.2.5.3 | Operate factory space - year 3 | Complete | 250d | 02Apr12 29Mar13 | 02Apr12 29Mar13 | None | | None | | 2.5.3.2.5.2[FS]; 2.5.3.2.1.3.3[SS] | 2.5.3.2.5.4[FS] |
| 2.5.3.2.5.4 | Operate factory space - year 4 | In Progress | 251d | 01Apr13 31Mar14 | 01Apr13 31Mar14 | None | | None | | 2.5.3.2.5.3[FS]; 2.5.3.2.6.18[FF]; 2.5.3.2.6.19[FF] | 2.5.3.2.8[FF]; 2.10.8.3[FS] |
| 2.5.3.2.6 | Module Assembly Infrastructure Setup | In Progress | 983d | 01Apr10 28Feb14 | 01Apr10 31Jan14 | None | | None | | | |
| 2.5.3.2.6.1 | Install and setup fiber stringing machines | Complete | 125d | 02Aug10 30Nov11 | 29Jul10 28Jan11 | None | | None | | 2.5.3.2.1.3.1[SS]; 2.5.3.1.7[FF]; 2.5.3.1.7[SS+30d]; 2.5.3.2.4.1.5[FS] | 2.5.3.2.7[FS]; 2.5.3.2.6.8[FF] |
| 2.5.3.2.6.2 | Install and setup pressure testing equipment | Complete | 125d | 02Aug10 31Jan12 | 29Jul10 28Jan11 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.4[FF]; 2.5.3.1.4[SS+30d] | 2.5.3.2.7[FS]; 2.5.3.2.6.8[FF] |
| 2.5.3.2.6.3 | Install and setup fiber checking machine | Complete | 10d | 15Oct10 30Sep11 | 13Jan11 27Jan11 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.8[FS] | 2.5.3.2.6.8[FF] |
| 2.5.3.2.6.4 | Install and setup fiber facing machines | Complete | 95d | 01Jul11 28Sep12 | 01Jul11 14Nov11 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.10[FF+10d]; 2.5.3.1.10[SS+70d] | 2.5.3.2.7[FS-10d] |
| 2.5.3.2.6.5 | Install and setup gluing machines | Complete | 45d | 17Aug10 15Feb12 | 30Aug10 01Nov10 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.6.5[FS] | 2.5.3.2.7[FS]; 2.5.3.2.6.8[FF] |
| 2.5.3.2.6.6 | Install material handling and storage equipment | Complete | 45d | 27Jan11 30Sep11 | 16Nov10 25Jan11 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.5.1[FS] | 2.5.3.2.6.8[FF] |
| 2.5.3.2.6.7 | Install and setup extrusion lifters | Complete | 25d | 01Dec10 07Jul11 | 28Sep10 01Nov10 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.6.9[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.1[SS+30d] | 2.5.3.2.6.8[FF]; 2.5.3.2.9[FS]; 2.5.3.2.10[FS] |
| 2.5.3.2.6.8 | Install quality assurance tracking system | Complete | 90d | 02Aug10 28Jun11 | 01Nov10 14Mar11 | None | | None | | 2.5.3.2.6.6[FF]; 2.5.3.2.6.3[FF]; 2.5.3.2.6.7[FF]; 1.5.5.9[FS]; 2.5.3.1.11[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.2.6.1[FF]; 2.5.3.2.6.2[FF]; 2.5.3.1.16[FF]; 1.5.5.14[FS]; 2.5.3.2.6.5[FF]; 1.5.5.17[FS] | 2.5.3.2.7[FS] |
| 2.5.3.2.6.9 | Install floor cranes | Complete | 20d | 12May10 28May10 | 30Aug10 27Sep10 | None | | None | | 2.5.3.2.4.1.5[FS]; 2.5.3.2.1.3.1[SS]; 2.5.3.1.9.5[FS] | 2.5.3.2.6.7[FS]; 2.5.3.2.9[FS] |
| 2.5.3.2.6.10 | Factory infrastructure completed for block 1 module production | Complete | 0 | 02Feb12 02Feb12 | 13Jan12 13Jan12 | None | | None | | 2.5.3.1.22[FS]; 2.5.3.2.6.17[FS] | 2.3.2.13.1[FS-5d]; 2.5.3.2.6.11[FS]; 2.5.3.3.2.1.1.1[FS] |
| 2.5.3.2.6.11 | Factory infrastructure completed for block 2 module production (OBSOLETE) | Complete | 0 | 04Feb11 04Feb11 | 04Feb11 04Feb11 | None | | None | | 2.5.3.2.6.10[FS] | 2.5.3.2.6.12[FS] |
| 2.5.3.2.6.12 | Factory infrastructure completed for block 3 module production (OBSOLETE) | Complete | 0 | 04Feb11 04Feb11 | 04Feb11 04Feb11 | None | | None | | 2.5.3.2.6.11[FS] | 2.5.3.2.6.13[FS] |
| 2.5.3.2.6.13 | Factory infrastructure completed for block 4 (full rate) module production (OBSOLETE) | Complete | 0 | 04Feb11 04Feb11 | 04Feb11 04Feb11 | None | | None | | 2.5.3.2.6.12[FS] | |
| 2.5.3.2.6.14 | Train module factory technicians | Complete | 128d | 01Apr10 31Oct12 | 01Apr10 30Sep10 | None | | None | | 2.5.3.2.5.1[SS] | 2.5.3.2.6.18[FS] |
| 2.5.3.2.6.15 | Train module factory student technicians | Complete | 712d | 01Apr10 31Jan13 | 01Apr10 31Jan13 | None | | None | | 2.5.3.2.5.1[SS] | 2.5.3.2.6.16[FF] |
| 2.5.3.2.6.16 | Train module factory student technicians - additional | Complete | 250d | 03Feb12 28Feb13 | 03Feb12 31Jan13 | None | | None | | 2.5.3.2.6.15[FF] | 2.5.3.2.6.19[FF] |
| 2.5.3.2.6.17 | Module factory QA System - additional equipment and labor | Complete | 59d | 07Jul11 30Sep11 | 11Jul11 30Sep11 | None | | None | | | 2.5.3.1.22[SS]; 2.5.3.2.6.10[FS] |
| 2.5.3.2.6.18 | Train module factory technicians - supplemental | In Progress | 188d | 01May13 28Feb14 | 01Feb13 31Jan14 | None | | None | | 2.5.3.2.6.14[FS] | 2.5.3.2.5.4[FF] |
| 2.5.3.2.6.19 | Train module factory student technicians - additional 2 | In Progress | 210d | 01Apr13 28Feb14 | 01Feb13 31Jan14 | None | | None | | 2.5.3.2.6.16[FF] | 2.5.3.2.5.4[FF] |
| 2.5.3.2.7 | Review factory setup and operation for full production readiness | Complete | 1d | 15Jun12 15Jun12 | 01Jun12 01Jun12 | None | | None | | 2.5.3.1.12[FS]; 2.5.3.2.6.1[FS]; 2.5.3.2.6.4[FS-10d]; 2.5.3.2.6.5[FS]; 2.5.3.2.6.2[FS]; 2.5.3.2.6.8[FS] | 2.5.3.3.2.7.1.1[FS] |
| 2.5.3.2.8 | Closeout factory space | Planned | 30d | 18Feb14 31Mar14 | 18Feb14 31Mar14 | None | | None | | 2.5.3.2.5.4[FF]; 2.5.3.2.1.3.7[FF]; 2.5.3.2.1.3.9[FS]; 2.5.3.2.1.3.10[FS]; 2.5.3.2.1.3.11[FS]; 2.5.3.2.1.3.12[FS]; 2.5.3.3.2.45.130[FS]; 2.5.3.2.1.3.6[FS] | 2.10.9.1[FS] |
| 2.5.3.2.9 | Procure and setup additional module sanding equipment | Complete | 40d | 17Dec12 29Mar13 | 17Dec12 15Feb13 | None | | None | | 2.5.3.2.6.7[FS]; 2.5.3.2.6.9[FS] | 2.5.3.3.7.16[FS] |
| 2.5.3.2.10 | Procure/fabricate/refurbish production tooling for ND modules | Complete | 45d | 17Dec12 29Apr13 | 17Dec12 22Feb13 | None | | None | | 2.5.3.2.6.7[FS] | |
| 2.5.3.3 | Module Assembly | In Progress | 1034d | 06Jan10 17Feb14 | 06Jan10 20Feb14 | None | | None | | | |
| 2.5.3.3.2 | Far Detector | In Progress | 571d | 01Nov11 13Feb14 | 02Nov11 20Feb14 | None | | None | | | |
| 2.5.3.3.2.1 | Module Assembly - Block 1 | Complete | 172d | 02Apr12 04Dec12 | 02Apr12 16Jul12 | None | | None | | | |
| 2.5.3.3.2.1.1 | Block 1 - Planes 1-16 | Complete | 101d | 02Apr12 22Aug12 | 02Apr12 25May12 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.1.1.1 | Assemble and test far detector modules - Block 1 - Planes 1-16 | Complete | 25d | 02Apr12 30May12 | 02Apr12 04May12 | None | | None | | 2.5.2.11[FF+7d]; 2.5.2.7[FS]; 2.5.3.3.8.1[SS]; 2.5.1.2.6[FS]; 2.5.1.1.7[FS]; 2.5.1.2.8[FS]; 2.5.3.3.2.45.200[FS]; 2.5.3.1.21[SS+40d]; 2.5.3.1.20[SS+40d]; 2.5.1.2.10[SS+1d]; 2.5.3.1.17[FS]; 2.5.3.1.19[FS-42d]; 2.3.4.1[FS]; 2.5.3.2.6.10[FS]; 2.4.3.2.1.1.4[SS+1d]; 2.5.3.3.7.1[SS] | 2.3.2.13.1[SS-20d]; 2.5.3.3.2.1.7[FS]; 2.5.3.3.2.1.1.2[FF+1d]; 2.5.3.3.2.1.2.1[FS]; 2.5.3.3.2.45.44[SS]; 2.5.3.3.2.1.1.2[SS+3d] |
| 2.5.3.3.2.1.1.2 | Ship completed far detector modules to far site - Block 1 - Planes 1-16 | Complete | 37d | 02Apr12 22Aug12 | 05Apr12 25May12 | None | | None | | 2.5.3.3.6[FS]; 2.5.3.3.2.1.1.1[FF+1d]; 2.9.4.3.2[FS]; 2.5.3.1.14[FS]; 2.5.3.3.2.1.1.1[SS+3d] | 2.5.3.3.2.45.205[SS]; 2.5.3.3.2.1.2.2[FS]; 2.9.4.3.3[SS+1d] |
| 2.5.3.3.2.1.2 | Block 1 - Planes 17-32 | Complete | 70d | 31May12 07Sep12 | 01Jun12 16Jul12 | None | | None | | | |
| 2.5.3.3.2.1.2.1 | Assemble and test far detector modules - Block 1 - Planes 17-32 | Complete | 15d | 31May12 13Jun12 | 01Jun12 21Jun12 | None | | None | | 2.5.2.12[FS]; 2.5.1.1.12[FF]; 2.5.3.3.8.1[FF]; 2.5.1.2.6[FS]; 2.5.2.11[FS]; 2.3.4.1[FS]; 2.5.3.3.2.1.1.1[FS]; 2.4.3.2.1.2.4[SS+1d]; 2.5.2.9[FS]; 2.5.3.3.7.1[FF]; 2.5.1.1.9[SS+1d]; 2.5.1.2.12[FF] | 2.5.3.3.2.1.7[FS]; 2.5.3.3.2.45.135[FS]; 2.5.3.3.2.2.1.1[FS]; 2.5.3.3.2.1.2.2[SS+1d]; 2.5.3.3.2.1.2.2[FF] |
| 2.5.3.3.2.1.2.2 | Ship completed far detector modules to far site - Block 1 - Planes 17-32 | Complete | 5d | 23Aug12 07Sep12 | 11Jun12 16Jul12 | None | | None | | 2.5.3.3.2.1.1.2[FS]; 2.5.3.1.14[FS]; 2.5.3.3.2.1.2.1[SS+1d]; 2.5.3.3.2.1.2.1[FF] | 2.5.3.3.2.2.1.2[FS]; 2.9.4.3.3[FF+1d] |
| 2.5.3.3.2.1.7 | Review construction of block 1 modules | Complete | 2d | 03Dec12 04Dec12 | 22Jun12 28Jun12 | None | | None | | 2.5.3.3.2.1.1.1[FS]; 2.5.3.3.2.1.2.1[FS] | 2.5.3.3.2.7.1.1[FS]; 2.5.3.3.2.7.2.1[FS] |
| 2.5.3.3.2.2 | Module Assembly - Block 2 | Complete | 80d | 13Jun12 04Oct12 | 29Jun12 25Oct12 | None | | None | | | |
| 2.5.3.3.2.2.1 | Block 2 - Planes 1-16 | Complete | 61d | 13Jun12 07Sep12 | 29Jun12 20Aug12 | None | | None | | | |
| 2.5.3.3.2.2.1.1 | Assemble and test far detector modules - Block 2 - Planes 1-16 | Complete | 10d | 13Jun12 22Jun12 | 29Jun12 13Jul12 | None | | None | | 2.5.3.3.7.2[SS]; 2.5.3.3.8.2[SS]; 2.5.3.3.2.1.2.1[FS]; 2.4.3.2.2.1.3[SS+1d]; 2.5.3.3.2.45.135[FS] | 2.5.3.3.2.2.1.2[FF]; 2.5.3.3.2.2.2.1[FS]; 2.5.3.3.2.2.1.2[SS+1d] |
| 2.5.3.3.2.2.1.2 | Ship completed far detector modules to far site - Block 2 - Planes 1-16 | Complete | 10d | 07Sep12 07Sep12 | 31Jul12 20Aug12 | None | | None | | 2.5.3.3.2.2.1.1[FF]; 2.9.4.3.3[FS]; 2.5.3.3.2.1.2.2[FS]; 2.5.3.3.2.2.1.1[SS+1d] | 2.5.3.3.2.2.2.2[FS]; 2.9.4.3.4[SS] |
| 2.5.3.3.2.2.2 | Block 2 - Planes 17-32 | Complete | 73d | 22Jun12 04Oct12 | 16Jul12 25Oct12 | None | | None | | | |
| 2.5.3.3.2.2.2.1 | Assemble and test far detector modules - Block 2 - Planes 17-32 | Complete | 10d | 22Jun12 02Jul12 | 16Jul12 27Jul12 | None | | None | | 2.5.3.3.8.2[FF]; 2.5.3.3.2.2.1.1[FS]; 2.4.3.2.2.2.3[SS+1d]; 2.5.3.3.7.2[FF] | 2.5.3.3.2.45.140[FS]; 2.5.3.3.2.3.1.1[FS]; 2.5.3.3.2.2.2.2[FF]; 2.5.3.3.2.2.2.2[SS+1d] |
| 2.5.3.3.2.2.2.2 | Ship completed far detector modules to far site - Block 2 - Planes 17-32 | Complete | 10d | 07Sep12 02Oct12 | 03Oct12 23Oct12 | None | | None | | 2.5.3.3.2.2.1.2[FS]; 2.5.3.3.2.2.2.1[FF]; 2.5.3.3.2.2.2.1[SS+1d] | 2.5.3.3.2.3.1.2[FS]; 2.5.3.3.2.2.2.3[FS]; 2.9.4.3.4[FF] |
| 2.5.3.3.2.2.2.3 | Ship used pallet assemblies to extruder - Block 2 | Complete | 2d | 04Oct12 04Oct12 | 24Oct12 25Oct12 | None | | None | | 2.5.3.3.2.2.2.2[FS] | 2.5.3.3.2.4.2.3[FS] |
| 2.5.3.3.2.3 | Module Assembly - Block 3 | Complete | 80d | 02Jul12 23Oct12 | 30Jul12 29Nov12 | None | | None | | | |
| 2.5.3.3.2.3.1 | Block 3 - Planes 1-16 | Complete | 74d | 02Jul12 15Oct12 | 30Jul12 09Nov12 | None | | None | | | |
| 2.5.3.3.2.3.1.1 | Assemble and test far detector modules - Block 3 - Planes 1-16 | Complete | 7d | 02Jul12 13Jul12 | 30Jul12 07Aug12 | None | | None | | 2.5.3.3.7.3[SS]; 2.5.1.1.13[SS+10d]; 2.5.3.3.8.3[SS]; 2.5.3.3.2.45.140[FS]; 2.5.3.3.2.2.2.1[FS]; 2.4.3.2.3.1.3[SS+1d] | 2.3.2.13.2[SS-5d]; 2.5.3.3.2.3.1.2[FF]; 2.5.3.3.2.3.2.1[FS]; 2.5.3.3.10[SS]; 2.5.3.3.2.3.1.2[SS+1d] |
| 2.5.3.3.2.3.1.2 | Ship completed far detector modules to far site - Block 3 - Planes 1-16 | Complete | 10d | 02Oct12 15Oct12 | 24Oct12 09Nov12 | None | | None | | 2.5.3.3.2.3.1.1[FF]; 2.9.4.3.4[FS]; 2.5.3.3.2.2.2.2[FS]; 2.5.3.3.2.3.1.1[SS+1d] | 2.9.4.3.5[SS]; 2.5.3.3.2.3.2.2[FS] |
| 2.5.3.3.2.3.2 | Block 3 - Planes 17-32 | Complete | 73d | 12Jul12 23Oct12 | 08Aug12 29Nov12 | None | | None | | | |
| 2.5.3.3.2.3.2.1 | Assemble and test far detector modules - Block 3 - Planes 17-32 | Complete | 7d | 12Jul12 23Jul12 | 08Aug12 16Aug12 | None | | None | | 2.5.3.3.8.3[FF]; 2.5.3.3.2.3.1.1[FS]; 2.5.3.3.7.3[FF]; 2.4.3.2.3.2.3[SS+1d] | 2.10.9.30[FS]; 2.5.3.3.2.3.2.2[FF]; 2.5.3.3.2.4.1.1[FS]; 2.5.3.3.2.3.2.2[SS+1d] |
| 2.5.3.3.2.3.2.2 | Ship completed far detector modules to far site - Block 3 - Planes 17-32 | Complete | 10d | 15Oct12 23Oct12 | 12Nov12 29Nov12 | None | | None | | 2.5.3.3.2.3.1.2[FS]; 2.5.3.3.2.3.2.1[FF]; 2.5.3.3.2.3.2.1[SS+1d] | 2.9.4.3.5[FF]; 2.5.3.3.2.4.1.2[FS] |
| 2.5.3.3.2.4 | Module Assembly - Block 4 | Complete | 93d | 23Jul12 03Dec12 | 17Aug12 18Dec12 | None | | None | | | |
| 2.5.3.3.2.4.1 | Block 4 - Planes 1-16 | Complete | 76d | 23Jul12 06Nov12 | 17Aug12 07Dec12 | None | | None | | | |
| 2.5.3.3.2.4.1.1 | Assemble and test far detector modules - Block 4 - Planes 1-16 | Complete | 7d | 23Jul12 01Aug12 | 17Aug12 27Aug12 | None | | None | | 2.5.3.3.2.3.2.1[FS]; 2.4.3.2.4.1.3[SS+1d]; 2.5.3.3.7.4[SS]; 2.5.3.1.5.6[FS] | 2.5.3.3.2.4.1.2[FF]; 2.5.3.3.2.4.2.1[FS]; 2.5.3.3.2.4.1.2[SS+1d] |
| 2.5.3.3.2.4.1.2 | Ship completed far detector modules to far site - Block 4 - Planes 1-16 | Complete | 6d | 24Oct12 06Nov12 | 30Nov12 07Dec12 | None | | None | | 2.5.3.3.2.4.1.1[FF]; 2.9.4.3.5[FS]; 2.5.3.3.2.3.2.2[FS]; 2.5.3.3.2.4.1.1[SS+1d] | 2.9.4.3.6[SS]; 2.5.3.3.2.4.2.2[FS] |
| 2.5.3.3.2.4.2 | Block 4 - Planes 17-32 | Complete | 86d | 01Aug12 03Dec12 | 28Aug12 18Dec12 | None | | None | | | |
| 2.5.3.3.2.4.2.1 | Assemble and test far detector modules - Block 4 - Planes 17-32 | Complete | 7d | 01Aug12 10Aug12 | 28Aug12 06Sep12 | None | | None | | 2.5.3.3.2.4.1.1[FS]; 2.4.3.2.4.2.3[SS+1d]; 2.5.3.3.7.4[FF] | 2.5.3.3.2.4.2.2[FF]; 2.5.3.3.2.5.1.1[FS]; 2.5.3.3.2.4.2.2[SS+1d] |
| 2.5.3.3.2.4.2.2 | Ship completed far detector modules to far site - Block 4 - Planes 17-32 | Complete | 5d | 07Nov12 19Nov12 | 10Dec12 14Dec12 | None | | None | | 2.5.3.3.2.4.2.1[FF]; 2.5.3.3.2.4.1.2[FS]; 2.5.3.3.2.4.2.1[SS+1d] | 2.9.4.3.6[FF]; 2.5.3.3.2.5.1.2[FS]; 2.5.3.3.2.4.2.3[FS] |
| 2.5.3.3.2.4.2.3 | Ship used pallet assemblies to extruder - Block 4 | Complete | 2d | 13Nov12 03Dec12 | 17Dec12 18Dec12 | None | | None | | 2.5.3.3.2.4.2.2[FS]; 2.5.3.3.2.2.2.3[FS] | 2.5.3.3.2.6.2.3[FS] |
| 2.5.3.3.2.5 | Module Assembly - Block 5 | Complete | 79d | 10Aug12 03Dec12 | 07Sep12 04Jan13 | None | | None | | | |
| 2.5.3.3.2.5.1 | Block 5 - Planes 1-16 | Complete | 72d | 10Aug12 20Nov12 | 07Sep12 26Dec12 | None | | None | | | |
| 2.5.3.3.2.5.1.1 | Assemble and test far detector modules - Block 5 - Planes 1-16 | Complete | 7d | 10Aug12 21Aug12 | 07Sep12 17Sep12 | None | | None | | 2.5.1.1.13[SS+15d]; 2.5.3.3.2.4.2.1[FS]; 2.4.3.2.5.1.3[SS+1d]; 2.5.3.3.7.5[SS] | 2.5.3.3.2.5.1.2[FF]; 2.5.3.3.2.5.2.1[FS]; 2.5.3.3.2.5.1.2[SS+1d] |
| 2.5.3.3.2.5.1.2 | Ship completed far detector modules to far site - Block 5 - Planes 1-16 | Complete | 6d | 15Nov12 20Nov12 | 17Dec12 26Dec12 | None | | None | | 2.5.3.3.2.5.1.1[FF]; 2.5.3.3.2.4.2.2[FS]; 2.9.4.3.6[FS]; 2.5.3.3.2.5.1.1[SS+1d] | 2.9.4.3.7[SS]; 2.5.3.3.2.5.2.2[FS] |
| 2.5.3.3.2.5.2 | Block 5 - Planes 17-32 | Complete | 72d | 21Aug12 03Dec12 | 18Sep12 04Jan13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.5.2.1 | Assemble and test far detector modules - Block 5 - Planes 17-32 | Complete | 7d | 21Aug12 31Aug12 | 18Sep12 26Sep12 | None | | None | | 2.5.3.3.2.5.1.1[FS]; 2.4.3.2.5.2.3[SS+1d]; 2.5.3.3.7.5[FF] | 2.5.3.3.2.5.2.2[FF]; 2.5.3.3.2.6.1.1[FS]; 2.5.3.3.2.5.2.2[SS+1d]; 2.5.3.3.2.45.45[FS] |
| 2.5.3.3.2.5.2.2 | Ship completed far detector modules to far site - Block 5 - Planes 17-32 | Complete | 5d | 29Nov12 03Dec12 | 27Dec12 04Jan13 | None | | None | | 2.5.3.3.2.5.1.2[FS]; 2.5.3.3.2.5.2.1[FF]; 2.5.3.3.2.5.2.1[SS+1d] | 2.9.4.3.7[FF]; 2.5.3.3.2.6.1.2[FS] |
| 2.5.3.3.2.6 | Module Assembly - Block 6 | Complete | 93d | 31Aug12 17Jan13 | 27Sep12 24Jan13 | None | | None | | | |
| 2.5.3.3.2.6.1 | Block 6 - Planes 1-16 | Complete | 71d | 31Aug12 12Dec12 | 27Sep12 14Jan13 | None | | None | | | |
| 2.5.3.3.2.6.1.1 | Assemble and test far detector modules - Block 6 - Planes 1-16 | Complete | 7d | 31Aug12 17Sep12 | 27Sep12 05Oct12 | None | | None | | 2.4.3.2.6.1.3[SS+1d]; 2.5.3.3.2.5.2.1[FS]; 2.5.3.3.7.6[SS]; 2.3.2.13.2[FS] | 2.5.3.3.2.6.1.2[FF]; 2.5.3.3.2.6.2.1[FS]; 2.5.3.3.2.6.1.2[SS+1d] |
| 2.5.3.3.2.6.1.2 | Ship completed far detector modules to far site - Block 6 - Planes 1-16 | Complete | 6d | 03Dec12 12Dec12 | 07Jan13 14Jan13 | None | | None | | 2.5.3.3.11.6[SS+1d]; 2.5.3.3.2.6.1.1[FF]; 2.9.4.3.7[FS]; 2.5.3.3.2.5.2.2[FS]; 2.5.3.3.2.6.1.1[SS+1d] | 2.9.4.3.9[SS]; 2.5.3.3.2.6.2.2[FS] |
| 2.5.3.3.2.6.2 | Block 6 - Planes 17-32 | Complete | 83d | 17Sep12 17Jan13 | 08Oct12 24Jan13 | None | | None | | | |
| 2.5.3.3.2.6.2.1 | Assemble and test far detector modules - Block 6 - Planes 17-32 | Complete | 7d | 17Sep12 03Oct12 | 08Oct12 16Oct12 | None | | None | | 2.5.3.3.7.6[FF]; 2.5.3.3.2.6.1.1[FS]; 2.4.3.2.6.2.3[SS+1d]; 2.3.2.13.2[FS] | 2.5.3.3.2.6.2.2[FF]; 2.5.3.3.2.7.1.1[FS]; 2.5.3.3.2.6.2.2[SS+1d] |
| 2.5.3.3.2.6.2.2 | Ship completed far detector modules to far site - Block 6 - Planes 17-32 | Complete | 5d | 12Dec12 19Dec12 | 15Jan13 22Jan13 | None | | None | | 2.5.3.3.11.6[FF+1d]; 2.5.3.3.2.6.1.2[FS]; 2.5.3.3.2.6.2.1[FF]; 2.5.3.3.10[FF]; 2.5.3.3.2.6.2.1[SS+1d] | 2.5.3.3.2.7.1.2[FS]; 2.9.4.3.9[FF]; 2.5.3.3.2.6.2.3[FS] |
| 2.5.3.3.2.6.2.3 | Ship used pallet assemblies to extruder - Block 6 | Complete | 2d | 03Jan13 17Jan13 | 23Jan13 24Jan13 | None | | None | | 2.5.3.3.2.6.2.2[FS]; 2.5.3.3.2.4.2.3[FS] | 2.5.3.3.2.8.2.3[FS] |
| 2.5.3.3.2.7 | Module Assembly - Block 7 | Complete | 71d | 03Oct12 17Jan13 | 17Oct12 06Feb13 | None | | None | | | |
| 2.5.3.3.2.7.1 | Block 7 - Planes 1-16 | Complete | 66d | 03Oct12 10Jan13 | 17Oct12 30Jan13 | None | | None | | | |
| 2.5.3.3.2.7.1.1 | Assemble and test far detector modules - Block 7 - Planes 1-16 | Complete | 7d | 03Oct12 17Oct12 | 17Oct12 25Oct12 | None | | None | | 2.5.3.3.7.7[SS]; 2.4.3.2.7.1.3[SS+1d]; 2.5.1.1.13[FS]; 2.5.3.2.7[FS]; 2.5.3.3.2.1.7[FS]; 2.5.3.3.2.6.2.1[FS] | 2.5.3.3.2.7.1.2[SS+1d]; 2.5.3.3.2.7.1.2[FF]; 2.5.3.3.2.7.2.1[FS] |
| 2.5.3.3.2.7.1.2 | Ship completed far detector modules to far site - Block 7 - Planes 1-16 | Complete | 6d | 20Dec12 10Jan13 | 23Jan13 30Jan13 | None | | None | | 2.5.3.3.2.7.1.1[SS+1d]; 2.5.3.3.11.7[SS+1d]; 2.5.3.3.2.6.2.2[FS]; 2.9.4.3.9[FS]; 2.5.3.3.2.7.1.1[FF] | 2.9.4.3.10[SS]; 2.5.3.3.2.7.2.2[FS] |
| 2.5.3.3.2.7.2 | Block 7 - Planes 17-32 | Complete | 61d | 17Oct12 17Jan13 | 26Oct12 06Feb13 | None | | None | | | |
| 2.5.3.3.2.7.2.1 | Assemble and test far detector modules - Block 7 - Planes 17-32 | Complete | 7d | 17Oct12 30Oct12 | 26Oct12 05Nov12 | None | | None | | 2.5.3.3.2.1.7[FS]; 2.5.3.3.2.7.1.1[FS]; 2.5.3.3.7.7[FF]; 2.4.3.2.7.2.3[SS+1d] | 2.5.3.3.2.8.1.1[FS]; 2.5.3.3.2.7.2.2[SS+1d]; 2.5.3.3.2.7.2.2[FF] |
| 2.5.3.3.2.7.2.2 | Ship completed far detector modules to far site - Block 7 - Planes 17-32 | Complete | 5d | 10Jan13 17Jan13 | 31Jan13 06Feb13 | None | | None | | 2.5.3.3.11.7[FF+1d]; 2.5.3.3.2.7.1.2[FS]; 2.5.3.3.2.7.2.1[SS+1d]; 2.5.3.3.2.7.2.1[FF] | 2.5.3.3.2.8.1.2[FS]; 2.9.4.3.10[FF] |
| 2.5.3.3.2.8 | Module Assembly - Block 8 | Complete | 78d | 30Oct12 25Feb13 | 06Nov12 25Feb13 | None | | None | | | |
| 2.5.3.3.2.8.1 | Block 8 - Planes 1-16 | Complete | 60d | 30Oct12 30Jan13 | 06Nov12 14Feb13 | None | | None | | | |
| 2.5.3.3.2.8.1.1 | Assemble and test far detector modules - Block 8 - Planes 1-16 | Complete | 7d | 30Oct12 11Nov12 | 06Nov12 14Nov12 | None | | None | | 2.5.1.1.22[SS+3d]; 2.5.1.1.14[SS+3d]; 2.4.3.2.8.1.3[SS+1d]; 2.5.1.2.18[FS]; 2.5.3.3.2.7.2.1[FS]; 2.5.3.3.7.8[SS] | 2.5.3.3.2.8.1.2[FF]; 2.5.3.3.2.8.2.1[FS]; 2.5.3.3.2.8.1.2[SS+1d] |
| 2.5.3.3.2.8.1.2 | Ship completed far detector modules to far site - Block 8 - Planes 1-16 | Complete | 6d | 17Jan13 30Jan13 | 07Feb13 14Feb13 | None | | None | | 2.5.3.3.2.8.1.1[FF]; 2.9.4.3.10[FS]; 2.5.3.3.2.7.2.2[FS]; 2.5.3.3.11.8[SS+1d]; 2.5.3.3.2.8.1.1[SS+1d] | 2.9.4.3.11[SS]; 2.5.3.3.2.8.2.2[FS] |
| 2.5.3.3.2.8.2 | Block 8 - Planes 17-32 | Complete | 69d | 11Nov12 25Feb13 | 15Nov12 25Feb13 | None | | None | | | |
| 2.5.3.3.2.8.2.1 | Assemble and test far detector modules - Block 8 - Planes 17-32 | Complete | 7d | 11Nov12 20Nov12 | 15Nov12 27Nov12 | None | | None | | 2.5.3.3.2.8.1.1[FS]; 2.5.3.3.7.8[FF]; 2.4.3.2.8.2.3[SS+1d] | 2.5.3.3.2.9.1.1[FS]; 2.5.3.3.2.8.2.2[SS+1d] |
| 2.5.3.3.2.8.2.2 | Ship completed far detector modules to far site - Block 8 - Planes 17-32 | Complete | 5d | 30Jan13 13Feb13 | 15Feb13 21Feb13 | None | | None | | 2.5.3.3.11.8[FF+1d]; 2.5.3.3.2.8.1.2[FS]; 2.5.3.3.2.8.2.1[SS+1d] | 2.9.4.3.11[FF]; 2.5.3.3.2.9.1.2[FS]; 2.5.3.3.2.8.2.3[FS] |
| 2.5.3.3.2.8.2.3 | Ship used pallet assemblies to extruder - Block 8 | Complete | 2d | 22Feb13 25Feb13 | 22Feb13 25Feb13 | None | | None | | 2.5.3.3.2.8.2.2[FS]; 2.5.3.3.2.6.2.3[FS] | 2.5.3.3.2.10.2.3[FS] |
| 2.5.3.3.2.9 | Module Assembly - Block 9 | Complete | 68d | 20Nov12 04Mar13 | 28Nov12 08Mar13 | None | | None | | | |
| 2.5.3.3.2.9.1 | Block 9 - Planes 1-16 | Complete | 61d | 20Nov12 21Feb13 | 28Nov12 01Mar13 | None | | None | | | |
| 2.5.3.3.2.9.1.1 | Assemble and test far detector modules - Block 9 - Planes 1-16 | Complete | 7d | 20Nov12 03Dec12 | 28Nov12 06Dec12 | None | | None | | 2.4.3.2.9.1.3[SS+1d]; 2.5.3.3.2.8.2.1[FS]; 2.5.3.3.7.9[SS] | 2.5.3.3.2.9.1.2[FF]; 2.3.2.13.3[SS-5d]; 2.5.3.3.2.9.2.1[FS]; 2.5.3.3.2.9.1.2[SS+1d] |
| 2.5.3.3.2.9.1.2 | Ship completed far detector modules to far site - Block 9 - Planes 1-16 | Complete | 6d | 13Feb13 21Feb13 | 22Feb13 01Mar13 | None | | None | | 2.5.3.3.2.9.1.1[FF]; 2.5.3.3.11.9[SS+1d]; 2.5.3.3.2.8.2.2[FS]; 2.9.4.3.11[FS]; 2.5.3.3.2.9.1.1[SS+1d] | 2.5.3.3.2.9.2.2[FS]; 2.9.4.3.12[SS] |
| 2.5.3.3.2.9.2 | Block 9 - Planes 17-32 | Complete | 61d | 03Dec12 04Mar13 | 07Dec12 08Mar13 | None | | None | | | |
| 2.5.3.3.2.9.2.1 | Assemble and test far detector modules - Block 9 - Planes 17-32 | Complete | 7d | 03Dec12 13Dec12 | 07Dec12 17Dec12 | None | | None | | 2.5.3.3.2.9.1.1[FS]; 2.5.3.3.7.9[FF]; 2.4.3.2.9.2.3[SS+1d] | 2.5.3.3.2.9.2.2[FF]; 2.5.3.3.2.10.1.1[FS]; 2.5.3.3.2.9.2.2[SS+1d] |
| 2.5.3.3.2.9.2.2 | Ship completed far detector modules to far site - Block 9 - Planes 17-32 | Complete | 5d | 21Feb13 04Mar13 | 04Mar13 08Mar13 | None | | None | | 2.5.3.3.2.9.2.1[FF]; 2.5.3.3.2.9.1.2[FS]; 2.5.3.3.11.9[FF+1d]; 2.5.3.3.2.9.2.1[SS+1d] | 2.9.4.3.12[FF]; 2.5.3.3.2.10.1.2[FS] |
| 2.5.3.3.2.10 | Module Assembly - Block 10 | Complete | 70d | 13Dec12 27Mar13 | 18Dec12 27Mar13 | None | | None | | | |
| 2.5.3.3.2.10.1 | Block 10 - Planes 1-16 | Complete | 59d | 13Dec12 12Mar13 | 18Dec12 18Mar13 | None | | None | | | |
| 2.5.3.3.2.10.1.1 | Assemble and test far detector modules - Block 10 - Planes 1-16 | Complete | 7d | 13Dec12 21Dec12 | 18Dec12 28Dec12 | None | | None | | 2.5.3.3.2.9.2.1[FS]; 2.5.3.3.7.10[SS]; 2.4.3.2.10.1.3[SS+1d] | 2.5.3.3.2.10.2.1[FS]; 2.5.3.3.2.10.1.2[FF]; 2.5.3.3.2.10.1.2[SS+1d] |
| 2.5.3.3.2.10.1.2 | Ship completed far detector modules to far site - Block 10 - Planes 1-16 | Complete | 6d | 04Mar13 12Mar13 | 11Mar13 18Mar13 | None | | None | | 2.5.3.3.11.10[SS+1d]; 2.5.3.3.2.10.1.1[FF]; 2.9.4.3.12[FS]; 2.5.3.3.2.9.2.2[FS]; 2.5.3.3.2.10.1.1[SS+1d] | 2.5.3.3.2.10.2.2[FS]; 2.9.4.3.13[SS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.10.2 | Block 10 - Planes 17-32 | Complete | 64d | 21Dec12 27Mar13 | 02Jan13 27Mar13 | None | | None | | | |
| 2.5.3.3.2.10.2.1 | Assemble and test far detector modules - Block 10 - Planes 17-32 | Complete | 7d | 21Dec12 10Jan13 | 02Jan13 10Jan13 | None | | None | | 2.5.3.3.2.10.1.1[FS]; 2.5.3.3.7.10[FF]; 2.4.3.2.10.2.3[SS+1d] | 2.5.3.3.2.10.2.2[FF]; 2.5.3.3.2.10.2.2[SS+1d]; 2.5.3.3.2.11.1.1[FS]; 2.5.3.3.2.45.50[FS] |
| 2.5.3.3.2.10.2.2 | Ship completed far detector modules to far site - Block 10 - Planes 17-32 | Complete | 5d | 12Mar13 19Mar13 | 19Mar13 25Mar13 | None | | None | | 2.5.3.3.2.10.2.1[FF]; 2.5.3.3.2.10.1.2[FS]; 2.5.3.3.2.10.2.1[SS+1d]; 2.5.3.3.11.10[FF+1d] | 2.5.3.3.2.11.1.2[FS]; 2.9.4.3.13[FF]; 2.5.3.3.2.10.2.3[FS] |
| 2.5.3.3.2.10.2.3 | Ship used pallet assemblies to extruder - Block 10 | Complete | 2d | 13Mar13 27Mar13 | 26Mar13 27Mar13 | None | | None | | 2.5.3.3.2.8.2.3[FS]; 2.5.3.3.2.10.2.2[FS] | 2.5.3.3.2.12.2.3[FS] |
| 2.5.3.3.2.11 | Module Assembly - Block 11 | Complete | 59d | 10Jan13 03Apr13 | 11Jan13 09Apr13 | None | | None | | | |
| 2.5.3.3.2.11.1 | Block 11 - Planes 1-16 | Complete | 54d | 10Jan13 27Mar13 | 11Jan13 02Apr13 | None | | None | | | |
| 2.5.3.3.2.11.1.1 | Assemble and test far detector modules - Block 11 - Planes 1-16 | Complete | 7d | 10Jan13 18Jan13 | 11Jan13 22Jan13 | None | | None | | 2.5.3.3.2.10.2.1[FS]; 2.5.3.3.7.11[SS]; 2.4.3.2.11.1.3[SS+1d]; 2.3.2.13.3[FS] | 2.5.3.3.2.11.1.2[FF]; 2.5.3.3.2.11.2.1[FS]; 2.5.3.3.2.11.1.2[SS+1d] |
| 2.5.3.3.2.11.1.2 | Ship completed far detector modules to far site - Block 11 - Planes 1-16 | Complete | 6d | 20Mar13 27Mar13 | 26Mar13 02Apr13 | None | | None | | 2.5.3.3.11.11[SS+1d]; 2.5.3.3.2.10.2.2[FS]; 2.5.3.3.2.11.1.1[FF]; 2.9.4.3.13[FS]; 2.5.3.3.2.11.1.1[SS+1d] | 2.5.3.3.2.11.2.2[FS]; 2.9.4.3.15[SS] |
| 2.5.3.3.2.11.2 | Block 11 - Planes 17-32 | Complete | 53d | 18Jan13 03Apr13 | 23Jan13 09Apr13 | None | | None | | | |
| 2.5.3.3.2.11.2.1 | Assemble and test far detector modules - Block 11 - Planes 17-32 | Complete | 7d | 18Jan13 31Jan13 | 23Jan13 31Jan13 | None | | None | | 2.5.3.3.2.11.1.1[FS]; 2.5.3.3.7.11[FF]; 2.4.3.2.11.2.3[SS+1d]; 2.3.2.13.3[FS] | 2.5.3.3.2.11.2.2[FF]; 2.5.3.3.2.11.2.2[SS+1d]; 2.5.3.3.2.12.1.1[FS] |
| 2.5.3.3.2.11.2.2 | Ship completed far detector modules to far site - Block 11 - Planes 17-32 | Complete | 5d | 27Mar13 03Apr13 | 03Apr13 09Apr13 | None | | None | | 2.5.3.3.2.11.2.1[FF]; 2.5.3.3.2.11.1.2[FS]; 2.5.3.3.11.11[FF+1d]; 2.5.3.3.2.11.2.1[SS+1d] | 2.5.3.3.2.12.1.2[FS]; 2.9.4.3.15[FF] |
| 2.5.3.3.2.12 | Module Assembly - Block 12 | Complete | 60d | 31Jan13 24Apr13 | 01Feb13 26Apr13 | None | | None | | | |
| 2.5.3.3.2.12.1 | Block 12 - Planes 1-16 | Complete | 49d | 31Jan13 09Apr13 | 01Feb13 17Apr13 | None | | None | | | |
| 2.5.3.3.2.12.1.1 | Assemble and test far detector modules - Block 12 - Planes 1-16 | Complete | 7d | 31Jan13 08Feb13 | 01Feb13 11Feb13 | None | | None | | 2.5.3.3.2.11.2.1[FS]; 2.5.3.3.7.12[SS]; 2.4.3.2.12.1.3[SS+1d] | 2.5.3.3.2.12.1.2[SS+1d]; 2.5.3.3.2.12.1.2[FF]; 2.5.3.3.2.12.2.1[FS] |
| 2.5.3.3.2.12.1.2 | Ship completed far detector modules to far site - Block 12 - Planes 1-16 | Complete | 6d | 03Apr13 09Apr13 | 10Apr13 17Apr13 | None | | None | | 2.5.3.3.11.12[SS+1d]; 2.5.3.3.2.11.2.2[FS]; 2.5.3.3.2.12.1.1[SS+1d]; 2.5.3.3.2.12.1.1[FF]; 2.9.4.3.15[FS] | 2.9.4.3.16[SS]; 2.5.3.3.2.12.2.2[FS] |
| 2.5.3.3.2.12.2 | Block 12 - Planes 17-32 | Complete | 54d | 08Feb13 24Apr13 | 12Feb13 26Apr13 | None | | None | | | |
| 2.5.3.3.2.12.2.1 | Assemble and test far detector modules - Block 12 - Planes 17-32 | Complete | 7d | 08Feb13 20Feb13 | 12Feb13 20Feb13 | None | | None | | 2.5.3.3.2.12.1.1[FS]; 2.5.3.3.7.12[FF]; 2.4.3.2.12.2.3[SS+1d] | 2.5.3.3.2.12.2.2[FF]; 2.5.3.3.2.13.1.1[FS]; 2.5.3.3.2.12.2.2[SS+1d] |
| 2.5.3.3.2.12.2.2 | Ship completed far detector modules to far site - Block 12 - Planes 17-32 | Complete | 5d | 09Apr13 16Apr13 | 18Apr13 24Apr13 | None | | None | | 2.5.3.3.11.12[FF+1d]; 2.5.3.3.2.12.2.1[FF]; 2.5.3.3.2.12.1.2[FS]; 2.5.3.3.2.12.2.1[SS+1d] | 2.9.4.3.16[FF]; 2.5.3.3.2.13.1.2[FS]; 2.5.3.3.2.12.2.3[FS] |
| 2.5.3.3.2.12.2.3 | Ship used pallet assemblies to extruder - Block 12 | Complete | 2d | 10Apr13 24Apr13 | 25Apr13 26Apr13 | None | | None | | 2.5.3.3.2.10.2.3[FS]; 2.5.3.3.2.12.2.2[FS] | 2.5.3.3.2.14.2.3[FS] |
| 2.5.3.3.2.13 | Module Assembly - Block 13 | Complete | 50d | 20Feb13 30Apr13 | 21Feb13 09May13 | None | | None | | | |
| 2.5.3.3.2.13.1 | Block 13 - Planes 1-16 | Complete | 46d | 20Feb13 24Apr13 | 21Feb13 02May13 | None | | None | | | |
| 2.5.3.3.2.13.1.1 | Assemble and test far detector modules - Block 13 - Planes 1-16 | Complete | 7d | 20Feb13 01Mar13 | 21Feb13 01Mar13 | None | | None | | 2.5.3.3.2.12.2.1[FS]; 2.4.3.2.13.1.3[SS+1d]; 2.5.3.3.7.13[SS] | 2.5.3.3.2.13.1.2[FF]; 2.5.3.3.2.13.2.1[FS]; 2.5.3.3.2.13.1.2[SS+1d] |
| 2.5.3.3.2.13.1.2 | Ship completed far detector modules to far site - Block 13 - Planes 1-16 | Complete | 6d | 16Apr13 24Apr13 | 25Apr13 02May13 | None | | None | | 2.5.3.3.2.13.1.1[FF]; 2.5.3.3.11.13[SS+1d]; 2.9.4.3.16[FS]; 2.5.3.3.2.12.2.2[FS]; 2.5.3.3.2.13.1.1[SS+1d] | 2.5.3.3.2.13.2.2[FS]; 2.9.4.3.17[SS] |
| 2.5.3.3.2.13.2 | Block 13 - Planes 17-32 | Complete | 43d | 01Mar13 30Apr13 | 04Mar13 09May13 | None | | None | | | |
| 2.5.3.3.2.13.2.1 | Assemble and test far detector modules - Block 13 - Planes 17-32 | Complete | 7d | 01Mar13 09Mar13 | 04Mar13 12Mar13 | None | | None | | 2.5.3.3.2.13.1.1[FS]; 2.5.3.3.7.13[FF]; 2.4.3.2.13.2.3[SS+1d] | 2.5.3.3.2.13.2.2[FF]; 2.5.3.3.2.14.1.1[FS]; 2.5.3.3.2.13.2.2[SS+1d] |
| 2.5.3.3.2.13.2.2 | Ship completed far detector modules to far site - Block 13 - Planes 17-32 | Complete | 5d | 24Apr13 30Apr13 | 03May13 09May13 | None | | None | | 2.5.3.3.11.13[FF+1d]; 2.5.3.3.2.13.1.2[FS]; 2.5.3.3.2.13.2.1[FF]; 2.5.3.3.2.13.2.1[SS+1d] | 2.5.3.3.2.14.1.2[FS]; 2.9.4.3.17[FF] |
| 2.5.3.3.2.14 | Module Assembly - Block 14 | Complete | 50d | 11Mar13 17May13 | 13Mar13 29May13 | None | | None | | | |
| 2.5.3.3.2.14.1 | Block 14 - Planes 1-16 | Complete | 44d | 11Mar13 09May13 | 13Mar13 17May13 | None | | None | | | |
| 2.5.3.3.2.14.1.1 | Assemble and test far detector modules - Block 14 - Planes 1-16 | Complete | 7d | 11Mar13 21Mar13 | 13Mar13 21Mar13 | None | | None | | 2.5.1.1.22[FS]; 2.5.1.1.14[FS]; 2.5.3.3.2.13.2.1[FS]; 2.5.3.3.7.14[SS]; 2.4.3.2.14.1.3[SS+1d] | 2.5.3.3.2.14.1.2[FF]; 2.5.3.3.2.14.2.1[FS]; 2.5.3.3.2.14.1.2[SS+1d] |
| 2.5.3.3.2.14.1.2 | Ship completed far detector modules to far site - Block 14 - Planes 1-16 | Complete | 6d | 01May13 09May13 | 10May13 17May13 | None | | None | | 2.5.3.3.11.14[SS+1d]; 2.9.4.3.17[FS]; 2.5.3.3.2.14.1.1[FF]; 2.5.3.3.2.13.2.2[FS]; 2.5.3.3.2.14.1.1[SS+1d] | 2.5.3.3.2.14.2.2[FS]; 2.9.4.3.18[SS] |
| 2.5.3.3.2.14.2 | Block 14 - Planes 17-32 | Complete | 42d | 21Mar13 17May13 | 22Mar13 29May13 | None | | None | | | |
| 2.5.3.3.2.14.2.1 | Assemble and test far detector modules - Block 14 - Planes 17-32 | Complete | 7d | 21Mar13 04Apr13 | 22Mar13 01Apr13 | None | | None | | 2.4.3.2.14.2.3[SS+1d]; 2.5.3.3.2.14.1.1[FS]; 2.5.3.3.7.14[FF] | 2.5.3.3.2.14.2.2[FF]; 2.5.3.3.2.15.1.1[FS]; 2.5.3.3.2.14.2.2[SS+1d] |
| 2.5.3.3.2.14.2.2 | Ship completed far detector modules to far site - Block 14 - Planes 17-32 | Complete | 5d | 09May13 15May13 | 20May13 24May13 | None | | None | | 2.5.3.3.2.14.1.2[FS]; 2.5.3.3.11.14[FF+1d]; 2.5.3.3.2.14.2.1[FF]; 2.5.3.3.2.14.2.1[SS+1d] | 2.9.4.3.18[FF]; 2.5.3.3.2.15.1.2[FS]; 2.5.3.3.2.14.2.3[FS] |
| 2.5.3.3.2.14.2.3 | Ship used pallet assemblies to extruder - Block 14 | Complete | 2d | 16May13 17May13 | 28May13 29May13 | None | | None | | 2.5.3.3.2.14.2.2[FS]; 2.5.3.3.2.12.2.3[FS] | 2.5.3.3.2.16.2.3[FS] |
| 2.5.3.3.2.15 | Module Assembly - Block 15 | Complete | 44d | 04Apr13 05Jun13 | 02Apr13 13Jun13 | None | | None | | | |
| 2.5.3.3.2.15.1 | Block 15 - Planes 1-16 | Complete | 35d | 04Apr13 22May13 | 02Apr13 05Jun13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.15.1.1 | Assemble and test far detector modules - Block 15 - Planes 1-16 | Complete | 7d | 04Apr13 16Apr13 | 02Apr13 10Apr13 | None | | None | | 2.5.1.1.23[SS+3d]; 2.5.1.1.15[SS+3d]; 2.5.3.3.2.14.2.1[FS]; 2.5.3.3.7.15[SS]; 2.4.3.2.15.1.3[SS+1d] | 2.3.2.13.4[SS-5d]; 2.5.3.3.2.15.1.2[FF]; 2.5.3.3.2.15.2.1[FS]; 2.5.3.3.2.15.1.2[SS+1d] |
| 2.5.3.3.2.15.1.2 | Ship completed far detector modules to far site - Block 15 - Planes 1-16 | Complete | 7d | 15May13 22May13 | 28May13 05Jun13 | None | | None | | 2.5.3.3.2.15.1.1[FF]; 2.9.4.3.18[FS]; 2.5.3.3.2.14.2.2[FS]; 2.5.3.3.11.15[SS+1d]; 2.5.3.3.2.15.1.1[SS+1d] | 2.9.4.3.19[SS]; 2.5.3.3.2.15.2.2[FS] |
| 2.5.3.3.2.15.2 | Block 15 - Planes 17-32 | Complete | 36d | 16Apr13 05Jun13 | 11Apr13 13Jun13 | None | | None | | | |
| 2.5.3.3.2.15.2.1 | Assemble and test far detector modules - Block 15 - Planes 17-32 | Complete | 7d | 16Apr13 26Apr13 | 11Apr13 19Apr13 | None | | None | | 2.5.3.3.7.15[FF]; 2.4.3.2.15.2.3[SS+1d]; 2.5.3.3.2.15.1.1[FS] | 2.5.3.3.2.15.2.2[FF]; 2.5.3.3.2.16.1.1[FS]; 2.5.3.3.2.15.2.2[SS+1d]; 2.5.3.3.2.45.60[FS] |
| 2.5.3.3.2.15.2.2 | Ship completed far detector modules to far site - Block 15 - Planes 17-32 | Complete | 6d | 22May13 05Jun13 | 06Jun13 13Jun13 | None | | None | | 2.5.3.3.11.15[FF+1d]; 2.5.3.3.2.15.1.2[FS]; 2.5.3.3.2.15.2.1[FF]; 2.5.3.3.2.15.2.1[SS+1d] | 2.9.4.3.19[FF]; 2.5.3.3.2.16.1.2[FS] |
| 2.5.3.3.2.16 | Module Assembly - Block 16 | In Progress | 47d | 26Apr13 02Jul13 | 22Apr13 05Jul13 | None | | None | | | |
| 2.5.3.3.2.16.1 | Block 16 - Planes 1-16 | Complete | 34d | 26Apr13 13Jun13 | 22Apr13 24Jun13 | None | | None | | | |
| 2.5.3.3.2.16.1.1 | Assemble and test far detector modules - Block 16 - Planes 1-16 | Complete | 7d | 26Apr13 10May13 | 22Apr13 30Apr13 | None | | None | | 2.5.3.3.7.16[SS]; 2.5.1.2.19[FS]; 2.5.3.3.2.15.2.1[FS]; 2.4.3.2.16.1.3[SS+1d] | 2.5.3.3.2.16.1.2[FF]; 2.5.3.3.2.16.2.1[FS]; 2.5.3.3.2.16.1.2[SS+1d] |
| 2.5.3.3.2.16.1.2 | Ship completed far detector modules to far site - Block 16 - Planes 1-16 | Complete | 7d | 05Jun13 13Jun13 | 14Jun13 24Jun13 | None | | None | | 2.5.3.3.2.16.1.1[FF]; 2.5.3.3.11.16[SS+1d]; 2.9.4.3.19[FS]; 2.5.3.3.2.15.2.2[FS]; 2.5.3.3.2.16.1.1[SS+1d] | 2.9.4.3.21[SS]; 2.5.3.3.2.16.2.2[FS] |
| 2.5.3.3.2.16.2 | Block 16 - Planes 17-32 | In Progress | 37d | 10May13 02Jul13 | 01May13 05Jul13 | None | | None | | | |
| 2.5.3.3.2.16.2.1 | Assemble and test far detector modules - Block 16 - Planes 17-32 | Complete | 7d | 10May13 23May13 | 01May13 09May13 | None | | None | | 2.5.3.3.7.16[FF]; 2.5.3.3.2.16.1.1[FS]; 2.4.3.2.16.2.3[SS+1d] | 2.5.3.3.2.16.2.2[FF]; 2.5.3.3.2.17.1.1[FS]; 2.5.3.3.2.16.2.2[SS+1d] |
| 2.5.3.3.2.16.2.2 | Ship completed far detector modules to far site - Block 16 - Planes 17-32 | Complete | 6d | 13Jun13 20Jun13 | 25Jun13 02Jul13 | None | | None | | 2.5.3.3.2.16.2.1[FF]; 2.5.3.3.2.16.1.2[FS]; 2.5.3.3.11.16[FF+1d]; 2.5.3.3.2.16.2.1[SS+1d] | 2.5.3.3.2.17.1.2[FS]; 2.9.4.3.21[FF]; 2.5.3.3.2.16.2.3[FS] |
| 2.5.3.3.2.16.2.3 | Ship used pallet assemblies to extruder - Block 16 | Planned | 2d | 01Jul13 02Jul13 | 03Jul13 05Jul13 | None | | None | | 2.5.3.3.2.14.2.3[FS]; 2.5.3.3.2.16.2.2[FS] | 2.5.3.3.2.18.2.3[FS] |
| 2.5.3.3.2.17 | Module Assembly - Block 17 | In Progress | 33d | 23May13 10Jul13 | 10May13 22Jul13 | None | | None | | | |
| 2.5.3.3.2.17.1 | Block 17 - Planes 1-16 | Complete | 25d | 23May13 27Jun13 | 10May13 12Jul13 | None | | None | | | |
| 2.5.3.3.2.17.1.1 | Assemble and test far detector modules - Block 17 - Planes 1-16 | Complete | 7d | 23May13 03Jun13 | 10May13 20May13 | None | | None | | 2.4.3.2.17.1.3[SS+1d]; 2.5.3.3.2.16.2.1[FS]; 2.5.3.3.7.17[SS] | 2.5.3.3.2.17.1.2[FF]; 2.5.3.3.2.17.2.1[FS]; 2.5.3.3.2.17.1.2[SS+1d] |
| 2.5.3.3.2.17.1.2 | Ship completed far detector modules to far site - Block 17 - Planes 1-16 | Complete | 7d | 20Jun13 27Jun13 | 03Jul13 12Jul13 | None | | None | | 2.9.4.3.21[FS]; 2.5.3.3.11.17[SS+1d]; 2.5.3.3.2.16.2.2[FS]; 2.5.3.3.2.17.1.1[FF]; 2.5.3.3.2.17.1.1[SS+1d] | 2.9.4.3.22[SS]; 2.5.3.3.2.17.2.2[FS] |
| 2.5.3.3.2.17.2 | Block 17 - Planes 17-32 | In Progress | 27d | 03Jun13 10Jul13 | 21May13 22Jul13 | None | | None | | | |
| 2.5.3.3.2.17.2.1 | Assemble and test far detector modules - Block 17 - Planes 17-32 | Complete | 7d | 03Jun13 07Jun13 | 21May13 30May13 | None | | None | | 2.5.3.3.2.17.1.1[FS]; 2.4.3.2.17.2.3[SS+1d]; 2.5.3.3.7.17[FF] | 2.5.3.3.2.17.2.2[FF]; 2.5.3.3.2.18.1.1[FS]; 2.5.3.3.2.17.2.2[SS+1d] |
| 2.5.3.3.2.17.2.2 | Ship completed far detector modules to far site - Block 17 - Planes 17-32 | In Progress | 6d | 27Jun13 10Jul13 | 15Jul13 22Jul13 | None | | None | | 2.5.3.3.11.17[FF+1d]; 2.5.3.3.2.17.1.2[FS]; 2.5.3.3.2.17.2.1[FF]; 2.5.3.3.2.17.2.1[SS+1d] | 2.5.3.3.2.18.1.2[FS]; 2.9.4.3.22[FF] |
| 2.5.3.3.2.18 | Module Assembly - Block 18 | In Progress | 37d | 08Jun13 31Jul13 | 31May13 12Aug13 | None | | None | | | |
| 2.5.3.3.2.18.1 | Block 18 - Planes 1-16 | In Progress | 29d | 08Jun13 19Jul13 | 31May13 31Jul13 | None | | None | | | |
| 2.5.3.3.2.18.1.1 | Assemble and test far detector modules -- Block 18 - Planes 1-16 | Complete | 7d | 08Jun13 17Jun13 | 31May13 10Jun13 | None | | None | | 2.5.3.3.2.17.2.1[FS]; 2.5.3.3.7.18[SS]; 2.4.3.2.18.1.3[SS+1d] | 2.5.3.3.2.18.1.2[FF]; 2.5.3.3.2.18.2.1[FS]; 2.5.3.3.2.18.1.2[SS+1d] |
| 2.5.3.3.2.18.1.2 | Ship completed far detector modules to far site - Block 18 - Planes 1-16 | Planned | 7d | 11Jul13 19Jul13 | 23Jul13 31Jul13 | None | | None | | 2.5.3.3.11.18[SS+1d]; 2.5.3.3.2.18.1.1[FF]; 2.5.3.3.2.17.2.2[FS]; 2.9.4.3.22[FS]; 2.5.3.3.2.18.1.1[SS+1d] | 2.9.4.3.23[SS]; 2.5.3.3.2.18.2.2[FS] |
| 2.5.3.3.2.18.2 | Block 18 - Planes 17-32 | In Progress | 32d | 17Jun13 31Jul13 | 11Jun13 12Aug13 | None | | None | | | |
| 2.5.3.3.2.18.2.1 | Assemble and test far detector modules - Block 18 - Planes 17-32 | Complete | 7d | 17Jun13 24Jun13 | 11Jun13 19Jun13 | None | | None | | 2.5.3.3.2.18.1.1[FS]; 2.4.3.2.18.2.3[SS+1d]; 2.5.3.3.7.18[FF] | 2.5.3.3.2.18.2.2[FF]; 2.5.3.3.2.19.1.1[FS]; 2.5.3.3.2.18.2.2[SS+1d] |
| 2.5.3.3.2.18.2.2 | Ship completed far detector modules to far site - Block 18 - Planes 17-32 | Planned | 6d | 22Jul13 29Jul13 | 01Aug13 08Aug13 | None | | None | | 2.5.3.3.11.18[FF+1d]; 2.5.3.3.2.18.1.2[FS]; 2.5.3.3.2.18.2.1[FF]; 2.5.3.3.2.18.2.1[SS+1d] | 2.5.3.3.2.19.1.2[FS]; 2.9.4.3.23[FF]; 2.5.3.3.2.18.2.3[FS] |
| 2.5.3.3.2.18.2.3 | Ship used pallet assemblies to extruder - Block 18 | Planned | 2d | 30Jul13 31Jul13 | 09Aug13 12Aug13 | None | | None | | 2.5.3.3.2.18.2.2[FS]; 2.5.3.3.2.16.2.3[FS] | 2.5.3.3.2.20.2.3[FS] |
| 2.5.3.3.2.19 | Module Assembly - Block 19 | In Progress | 38d | 24Jun13 15Aug13 | 20Jun13 27Aug13 | None | | None | | | |
| 2.5.3.3.2.19.1 | Block 19 - Planes 1-16 | In Progress | 32d | 24Jun13 07Aug13 | 20Jun13 19Aug13 | None | | None | | | |
| 2.5.3.3.2.19.1.1 | Assemble and test far detector modules - Block 19 - Planes 1-16 | Complete | 7d | 24Jun13 28Jun13 | 20Jun13 28Jun13 | None | | None | | 2.5.3.3.2.18.2.1[FS]; 2.3.2.13.4[FS]; 2.5.3.3.7.19[SS]; 2.4.3.2.19.1.3[SS+1d] | 2.5.3.3.2.19.1.2[FF]; 2.5.3.3.2.19.2.1[FS]; 2.5.3.3.2.19.1.2[SS+1d] |
| 2.5.3.3.2.19.1.2 | Ship completed far detector modules to far site - Block 19 - Planes 1-16 | Planned | 7d | 30Jul13 07Aug13 | 09Aug13 19Aug13 | None | | None | | 2.9.4.3.23[FS]; 2.5.3.3.2.18.2.2[FS]; 2.5.3.3.11.19[SS+1d]; 2.5.3.3.2.19.1.1[FF]; 2.5.3.3.2.19.1.1[SS+1d] | 2.9.4.3.24[SS]; 2.5.3.3.2.19.2.2[FS] |
| 2.5.3.3.2.19.2 | Block 19 - Planes 17-32 | Planned | 33d | 01Jul13 15Aug13 | 01Jul13 27Aug13 | None | | None | | | |
| 2.5.3.3.2.19.2.1 | Assemble and test far detector modules - Block 19 - Planes 17-32 | Planned | 7d | 01Jul13 10Jul13 | 01Jul13 10Jul13 | None | | None | | 2.5.3.3.7.19[FF]; 2.5.3.3.2.19.1.1[FS]; 2.3.2.13.4[FS]; 2.4.3.2.19.2.3[SS+1d] | 2.5.3.3.2.19.2.2[FF]; 2.5.3.3.2.20.1.1[FS]; 2.5.3.3.2.19.2.2[SS+1d] |
| 2.5.3.3.2.19.2.2 | Ship completed far detector modules to far site - Block 19 - Planes 17-32 | Planned | 6d | 08Aug13 15Aug13 | 20Aug13 27Aug13 | None | | None | | 2.5.3.3.11.19[FF+1d]; 2.5.3.3.2.19.2.1[FF]; 2.5.3.3.2.19.1.2[FS]; 2.5.3.3.2.19.2.1[SS+1d] | 2.5.3.3.2.20.1.2[FS]; 2.9.4.3.24[FF] |
| 2.5.3.3.2.20 | Module Assembly - Block 20 | Planned | 41d | 11Jul13 06Sep13 | 11Jul13 18Sep13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.20.1 | Block 20 - Planes 1-16 | Planned | 33d | 11Jul13 26Aug13 | 11Jul13 06Sep13 | None | | None | | | |
| 2.5.3.3.2.20.1.1 | Assemble and test far detector modules - Block 20 - Planes 1-16 | Planned | 7d | 11Jul13 19Jul13 | 11Jul13 19Jul13 | None | | None | | 2.5.3.3.7.20[SS]; 2.5.3.3.2.19.2.1[FS]; 2.4.3.2.20.1.3[SS+1d] | 2.3.2.13.5[SS-5d]; 2.5.3.3.2.20.1.2[SS+1d]; 2.5.3.3.2.20.1.2[FF]; 2.5.3.3.2.20.2.1[FS] |
| 2.5.3.3.2.20.1.2 | Ship completed far detector modules to far site - Block 20 - Planes 1-16 | Planned | 7d | 16Aug13 26Aug13 | 28Aug13 06Sep13 | None | | None | | 2.5.3.3.2.20.1.1[SS+1d]; 2.5.3.3.11.20[SS+1d]; 2.9.4.3.24[FS]; 2.5.3.3.2.19.2.2[FS]; 2.5.3.3.2.20.1.1[FF] | 2.5.3.3.2.20.2.2[FS]; 2.9.4.3.25[SS] |
| 2.5.3.3.2.20.2 | Block 20 - Planes 17-32 | Planned | 34d | 22Jul13 06Sep13 | 22Jul13 18Sep13 | None | | None | | | |
| 2.5.3.3.2.20.2.1 | Assemble and test far detector modules - Block 20 - Planes 17-32 | Planned | 7d | 22Jul13 30Jul13 | 22Jul13 30Jul13 | None | | None | | 2.4.3.2.20.2.3[SS+1d]; 2.5.3.3.2.20.1.1[FS]; 2.5.3.3.7.20[FF] | 2.5.3.3.2.20.2.2[FF]; 2.5.3.3.2.21.1.1[FS]; 2.5.3.3.2.20.2.2[SS+1d]; 2.5.3.3.2.45.70[FS] |
| 2.5.3.3.2.20.2.2 | Ship completed far detector modules to far site - Block 20 - Planes 17-32 | Planned | 6d | 27Aug13 04Sep13 | 09Sep13 16Sep13 | None | | None | | 2.5.3.3.2.20.1.2[FS]; 2.5.3.3.11.20[FF+1d]; 2.5.3.3.2.20.2.1[FF]; 2.5.3.3.2.20.2.1[SS+1d] | 2.5.3.3.2.21.1.2[FS]; 2.9.4.3.25[FF]; 2.5.3.3.2.20.2.3[FS] |
| 2.5.3.3.2.20.2.3 | Ship used pallet assemblies to extruder - Block 20 | Planned | 2d | 05Sep13 06Sep13 | 17Sep13 18Sep13 | None | | None | | 2.5.3.3.2.20.2.2[FS]; 2.5.3.3.2.18.2.3[FS] | 2.5.3.3.2.22.2.3[FS] |
| 2.5.3.3.2.21 | Module Assembly - Block 21 | Planned | 38d | 31Jul13 23Sep13 | 31Jul13 03Oct13 | None | | None | | | |
| 2.5.3.3.2.21.1 | Block 21 - Planes 1-16 | Planned | 32d | 31Jul13 13Sep13 | 31Jul13 25Sep13 | None | | None | | | |
| 2.5.3.3.2.21.1.1 | Assemble and test far detector modules - Block 21 - Planes 1-16 | Planned | 7d | 31Jul13 08Aug13 | 31Jul13 08Aug13 | None | | None | | 2.5.1.1.23[FS]; 2.5.1.1.15[FS]; 2.5.3.3.2.20.2.1[FS]; 2.5.3.3.7.21[SS]; 2.4.3.2.21.1.3[SS+1d] | 2.5.3.3.2.21.1.2[FF]; 2.5.3.3.2.21.2.1[FS]; 2.5.3.3.2.21.1.2[SS+1d] |
| 2.5.3.3.2.21.1.2 | Ship completed far detector modules to far site - Block 21 - Planes 1-16 | Planned | 7d | 05Sep13 13Sep13 | 17Sep13 25Sep13 | None | | None | | 2.9.4.3.25[FS]; 2.5.3.3.2.20.2.2[FS]; 2.5.3.3.11.21[SS+1d]; 2.5.3.3.2.21.1.1[FF]; 2.5.3.3.2.21.1.1[SS+1d] | 2.9.4.3.27[SS]; 2.5.3.3.2.21.2.2[FS] |
| 2.5.3.3.2.21.2 | Block 21 - Planes 17-32 | Planned | 31d | 09Aug13 23Sep13 | 09Aug13 03Oct13 | None | | None | | | |
| 2.5.3.3.2.21.2.1 | Assemble and test far detector modules - Block 21 - Planes 17-32 | Planned | 7d | 09Aug13 19Aug13 | 09Aug13 19Aug13 | None | | None | | 2.5.3.3.2.21.1.1[FS]; 2.5.3.3.7.21[FF]; 2.4.3.2.21.2.3[SS+1d] | 2.5.3.3.2.21.2.2[FF]; 2.5.3.3.2.22.1.1[FS]; 2.5.3.3.2.21.2.2[SS+1d] |
| 2.5.3.3.2.21.2.2 | Ship completed far detector modules to far site - Block 21 - Planes 17-32 | Planned | 6d | 16Sep13 23Sep13 | 26Sep13 03Oct13 | None | | None | | 2.5.3.3.11.21[FF+1d]; 2.5.3.3.2.21.1.2[FS]; 2.5.3.3.2.21.2.1[FF]; 2.5.3.3.2.21.2.1[SS+1d] | 2.9.4.3.27[FF]; 2.5.3.3.2.22.1.2[FS] |
| 2.5.3.3.2.22 | Module Assembly - Block 22 | Planned | 39d | 20Aug13 14Oct13 | 20Aug13 24Oct13 | None | | None | | | |
| 2.5.3.3.2.22.1 | Block 22 - Planes 1-16 | Planned | 31d | 20Aug13 02Oct13 | 20Aug13 14Oct13 | None | | None | | | |
| 2.5.3.3.2.22.1.1 | Assemble and test far detector modules - Block 22 - Planes 1-16 | Planned | 7d | 20Aug13 28Aug13 | 20Aug13 28Aug13 | None | | None | | 2.5.1.1.16[SS+3d]; 2.5.1.1.24[SS+3d]; 2.5.3.3.2.21.2.1[FS]; 2.3.2.13.5[FS]; 2.5.3.3.7.22[SS]; 2.4.3.2.22.1.3[SS+1d] | 2.5.3.3.2.22.2.1[FS]; 2.5.3.3.2.22.1.2[FF]; 2.5.3.3.2.22.1.2[SS+1d] |
| 2.5.3.3.2.22.1.2 | Ship completed far detector modules to far site - Block 22 - Planes 1-16 | Planned | 7d | 24Sep13 02Oct13 | 04Oct13 14Oct13 | None | | None | | 2.5.3.3.11.22[SS+1d]; 2.5.3.3.2.21.2.2[FS]; 2.9.4.3.27[FS]; 2.5.3.3.2.22.1.1[FF]; 2.5.3.3.2.22.1.1[SS+1d] | 2.9.4.3.28[SS]; 2.5.3.3.2.22.2.2[FS] |
| 2.5.3.3.2.22.2 | Block 22 - Planes 17-32 | Planned | 32d | 29Aug13 14Oct13 | 29Aug13 24Oct13 | None | | None | | | |
| 2.5.3.3.2.22.2.1 | Assemble and test far detector modules - Block 22 - Planes 17-32 | Planned | 7d | 29Aug13 09Sep13 | 29Aug13 09Sep13 | None | | None | | 2.5.3.3.2.22.1.1[FS]; 2.3.2.13.5[FS]; 2.5.3.3.7.22[FF]; 2.4.3.2.22.2.3[SS+1d] | 2.5.3.3.2.22.2.2[SS+1d]; 2.5.3.3.2.23.1.1[FS]; 2.5.3.3.2.22.2.2[FF] |
| 2.5.3.3.2.22.2.2 | Ship completed far detector modules to far site - Block 22 - Planes 17-32 | Planned | 6d | 03Oct13 10Oct13 | 15Oct13 22Oct13 | None | | None | | 2.5.3.3.2.22.2.1[SS+1d]; 2.5.3.3.11.22[FF+1d]; 2.5.3.3.2.22.2.1[FF]; 2.5.3.3.2.22.1.2[FS] | 2.5.3.3.2.22.2.3[FS]; 2.5.3.3.2.23.1.2[FS]; 2.9.4.3.28[FF] |
| 2.5.3.3.2.22.2.3 | Ship used pallet assemblies to extruder - Block 22 | Planned | 2d | 11Oct13 14Oct13 | 23Oct13 24Oct13 | None | | None | | 2.5.3.3.2.22.2.2[FS]; 2.5.3.3.2.20.2.3[FS] | 2.5.3.3.2.24.2.3[FS] |
| 2.5.3.3.2.23 | Module Assembly - Block 23 | Planned | 36d | 10Sep13 29Oct13 | 10Sep13 08Nov13 | None | | None | | | |
| 2.5.3.3.2.23.1 | Block 23 - Planes 1-16 | Planned | 30d | 10Sep13 21Oct13 | 10Sep13 31Oct13 | None | | None | | | |
| 2.5.3.3.2.23.1.1 | Assemble and test far detector modules - Block 23 - Planes 1-16 | Planned | 7d | 10Sep13 18Sep13 | 10Sep13 18Sep13 | None | | None | | 2.5.1.2.20[FS]; 2.5.3.3.2.22.2.1[FS]; 2.5.3.3.7.23[SS]; 2.4.3.2.23.1.3[SS+1d] | 2.5.3.3.2.23.1.2[SS+1d]; 2.5.3.3.2.23.2.1[FS]; 2.5.3.3.2.23.1.2[FF] |
| 2.5.3.3.2.23.1.2 | Ship completed far detector modules to far site - Block 23 - Planes 1-16 | Planned | 7d | 11Oct13 21Oct13 | 23Oct13 31Oct13 | None | | None | | 2.5.3.3.11.23[SS+1d]; 2.9.4.3.28[FS]; 2.5.3.3.2.23.1.1[SS+1d]; 2.5.3.3.2.22.2.2[FS]; 2.5.3.3.2.23.1.1[FF] | 2.9.4.3.29[SS]; 2.5.3.3.2.23.2.2[FS] |
| 2.5.3.3.2.23.2 | Block 23 - Planes 17-32 | Planned | 29d | 19Sep13 29Oct13 | 19Sep13 08Nov13 | None | | None | | | |
| 2.5.3.3.2.23.2.1 | Assemble and test far detector modules - Block 23 - Planes 17-32 | Planned | 7d | 19Sep13 27Sep13 | 19Sep13 27Sep13 | None | | None | | 2.5.3.3.2.23.1.1[FS]; 2.5.3.3.7.23[FF]; 2.4.3.2.23.2.3[SS+1d] | 2.5.3.3.2.23.2.2[FF]; 2.5.3.3.2.23.2.2[SS+1d]; 2.5.3.3.2.24.1.1[FS] |
| 2.5.3.3.2.23.2.2 | Ship completed far detector modules to far site - Block 23 - Planes 17-32 | Planned | 6d | 22Oct13 29Oct13 | 01Nov13 08Nov13 | None | | None | | 2.5.3.3.2.23.2.1[FF]; 2.5.3.3.2.23.2.1[SS+1d]; 2.5.3.3.11.23[FF+1d]; 2.5.3.3.2.23.1.2[FS] | 2.5.3.3.2.24.1.2[FS]; 2.9.4.3.29[FF] |
| 2.5.3.3.2.24 | Module Assembly - Block 24 | Planned | 37d | 30Sep13 19Nov13 | 30Sep13 03Dec13 | None | | None | | | |
| 2.5.3.3.2.24.1 | Block 24 - Planes 1-16 | Planned | 29d | 30Sep13 07Nov13 | 30Sep13 19Nov13 | None | | None | | | |
| 2.5.3.3.2.24.1.1 | Assemble and test far detector modules - Block 24 - Planes 1-16 | Planned | 7d | 30Sep13 08Oct13 | 30Sep13 08Oct13 | None | | None | | 2.5.3.3.7.24[SS]; 2.5.3.3.2.23.2.1[FS]; 2.4.3.2.24.1.3[SS+1d] | 2.5.3.3.2.24.1.2[FF]; 2.5.3.3.2.24.2.1[FS]; 2.5.3.3.2.24.1.2[SS+1d] |
| 2.5.3.3.2.24.1.2 | Ship completed far detector modules to far site - Block 24 - Planes 1-16 | Planned | 7d | 30Oct13 07Nov13 | 11Nov13 19Nov13 | None | | None | | 2.9.4.3.29[FS]; 2.5.3.3.2.23.2.2[FS]; 2.5.3.3.2.24.1.1[FF]; 2.5.3.3.11.24[SS+1d]; 2.5.3.3.2.24.1.1[SS+1d] | 2.9.4.3.30[SS]; 2.5.3.3.2.24.2.2[FS] |
| 2.5.3.3.2.24.2 | Block 24 - Planes 17-32 | Planned | 30d | 09Oct13 19Nov13 | 09Oct13 03Dec13 | None | | None | | | |
| 2.5.3.3.2.24.2.1 | Assemble and test far detector modules - Block 24 - Planes 17-32 | Planned | 7d | 09Oct13 17Oct13 | 09Oct13 17Oct13 | None | | None | | 2.5.3.3.7.24[FF]; 2.5.3.3.2.24.1.1[FS]; 2.4.3.2.24.2.3[SS+1d] | 2.5.3.3.2.24.2.2[SS+1d]; 2.5.3.3.2.24.2.2[FF]; 2.5.3.3.2.25.1.1[FS] |
| 2.5.3.3.2.24.2.2 | Ship completed far detector modules to far site - Block 24 - Planes 17-32 | Planned | 6d | 08Nov13 15Nov13 | 20Nov13 27Nov13 | None | | None | | 2.5.3.3.11.24[FF+1d]; 2.5.3.3.2.24.2.1[SS+1d]; 2.5.3.3.2.24.2.1[FF]; 2.5.3.3.2.24.1.2[FS] | 2.5.3.3.2.24.2.3[FS]; 2.5.3.3.2.25.1.2[FS]; 2.9.4.3.30[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.24.2.3 | Ship used pallet assemblies to extruder - Block 24 | Planned | 2d | 18Nov13 19Nov13 | 02Dec13 03Dec13 | None | | None | | 2.5.3.3.2.24.2.2[FS]; 2.5.3.3.2.22.2.3[FS] | 2.5.3.3.2.26.2.3[FS] |
| 2.5.3.3.2.25 | Module Assembly - Block 25 | Planned | 34d | 18Oct13 06Dec13 | 18Oct13 18Dec13 | None | | None | | | |
| 2.5.3.3.2.25.1 | Block 25 - Planes 1-16 | Planned | 28d | 18Oct13 26Nov13 | 18Oct13 10Dec13 | None | | None | | | |
| 2.5.3.3.2.25.1.1 | Assemble and test far detector modules - Block 25 - Planes 1-16 | Planned | 7d | 18Oct13 28Oct13 | 18Oct13 28Oct13 | None | | None | | 2.5.3.3.2.24.2.1[FS]; 2.5.3.3.7.25[SS]; 2.4.3.2.25.1.3[SS+1d] | 2.5.3.3.2.25.1.2[SS+1d]; 2.5.3.3.2.25.2.1[FS]; 2.5.3.3.2.25.1.2[FF]; 2.3.2.13.6[SS-5d] |
| 2.5.3.3.2.25.1.2 | Ship completed far detector modules to far site - Block 25 - Planes 1-16 | Planned | 7d | 18Nov13 26Nov13 | 02Dec13 10Dec13 | None | | None | | 2.5.3.3.11.25[SS+1d]; 2.9.4.3.30[FS]; 2.5.3.3.2.25.1.1[SS+1d]; 2.5.3.3.2.24.2.2[FS]; 2.5.3.3.2.25.1.1[FF] | 2.9.4.3.31[SS]; 2.5.3.3.2.25.2.2[FS] |
| 2.5.3.3.2.25.2 | Block 25 - Planes 17-32 | Planned | 27d | 29Oct13 06Dec13 | 29Oct13 18Dec13 | None | | None | | | |
| 2.5.3.3.2.25.2.1 | Assemble and test far detector modules - Block 25 - Planes 17-32 | Planned | 7d | 29Oct13 06Nov13 | 29Oct13 06Nov13 | None | | None | | 2.5.3.3.2.25.1.1[FS]; 2.5.3.3.7.25[FF]; 2.4.3.2.25.2.3[SS+1d] | 2.5.3.3.2.25.2.2[FF]; 2.5.3.3.2.25.2.2[SS+1d]; 2.5.3.3.2.26.1.1[FS]; 2.5.3.3.2.45.80[FS] |
| 2.5.3.3.2.25.2.2 | Ship completed far detector modules to far site - Block 25 - Planes 17-32 | Planned | 6d | 27Nov13 06Dec13 | 11Dec13 18Dec13 | None | | None | | 2.5.3.3.2.25.2.1[FF]; 2.5.3.3.2.25.1.2[FS]; 2.5.3.3.11.25[FF+1d]; 2.5.3.3.2.25.2.1[SS+1d] | 2.9.4.3.31[FF]; 2.5.3.3.2.26.1.2[FS] |
| 2.5.3.3.2.26 | Module Assembly - Block 26 | Planned | 35d | 07Nov13 02Jan14 | 07Nov13 14Jan14 | None | | None | | | |
| 2.5.3.3.2.26.1 | Block 26 - Planes 1-16 | Planned | 27d | 07Nov13 17Dec13 | 07Nov13 02Jan14 | None | | None | | | |
| 2.5.3.3.2.26.1.1 | Assemble and test far detector modules - Block 26 - Planes 1-16 | Planned | 7d | 07Nov13 15Nov13 | 07Nov13 15Nov13 | None | | None | | 2.5.3.3.2.25.2.1[FS]; 2.5.3.3.7.26[SS]; 2.4.3.2.26.1.3[SS+1d] | 2.5.3.3.2.26.1.2[FF]; 2.5.3.3.2.26.2.1[FS]; 2.5.3.3.2.26.1.2[SS+1d] |
| 2.5.3.3.2.26.1.2 | Ship completed far detector modules to far site - Block 26 - Planes 1-16 | Planned | 7d | 09Dec13 17Dec13 | 19Dec13 02Jan14 | None | | None | | 2.5.3.3.2.26.1.1[FF]; 2.9.4.3.31[FS]; 2.5.3.3.11.26[SS+1d]; 2.5.3.3.2.25.2.2[FS]; 2.5.3.3.2.26.1.1[SS+1d] | 2.9.4.3.33[SS]; 2.5.3.3.2.26.2.2[FS] |
| 2.5.3.3.2.26.2 | Block 26 - Planes 17-32 | Planned | 28d | 18Nov13 02Jan14 | 18Nov13 14Jan14 | None | | None | | | |
| 2.5.3.3.2.26.2.1 | Assemble and test far detector modules - Block 26 - Planes 17-32 | Planned | 7d | 18Nov13 26Nov13 | 18Nov13 26Nov13 | None | | None | | 2.5.3.3.7.26[FF]; 2.4.3.2.26.2.3[SS+1d]; 2.5.3.3.2.26.1.1[FS] | 2.5.3.3.2.26.2.2[FF]; 2.5.3.3.2.27.1.1[FS]; 2.5.3.3.2.26.2.2[SS+1d] |
| 2.5.3.3.2.26.2.2 | Ship completed far detector modules to far site - Block 26 - Planes 17-32 | Planned | 6d | 18Dec13 27Dec13 | 03Jan14 10Jan14 | None | | None | | 2.5.3.3.2.26.2.1[FF]; 2.5.3.3.2.26.1.2[FS]; 2.5.3.3.11.26[FF+1d]; 2.5.3.3.2.26.2.1[SS+1d] | 2.5.3.3.2.27.1.2[FS-1d]; 2.9.4.3.33[FF]; 2.5.3.3.2.26.2.3[FS] |
| 2.5.3.3.2.26.2.3 | Ship used pallet assemblies to extruder - Block 26 | Planned | 2d | 30Dec13 02Jan14 | 13Jan14 14Jan14 | None | | None | | 2.5.3.3.2.26.2.2[FS]; 2.5.3.3.2.24.2.3[FS] | 2.5.3.3.2.28.2.3[FS] |
| 2.5.3.3.2.27 | Module Assembly - Block 27 | Planned | 32d | 27Nov13 17Jan14 | 27Nov13 30Jan14 | None | | None | | | |
| 2.5.3.3.2.27.1 | Block 27 - Planes 1-16 | Planned | 26d | 27Nov13 09Jan14 | 27Nov13 22Jan14 | None | | None | | | |
| 2.5.3.3.2.27.1.1 | Assemble and test far detector modules - Block 27 - Planes 1-16 | Planned | 7d | 27Nov13 09Dec13 | 27Nov13 09Dec13 | None | | None | | 2.5.3.3.7.27[SS]; 2.5.3.3.2.26.2.1[FS]; 2.3.2.13.6[FS]; 2.4.3.2.27.1.3[SS+1d] | 2.5.3.3.2.27.2.1[FS]; 2.5.3.3.2.27.1.2[FF]; 2.5.3.3.2.27.1.2[SS+1d] |
| 2.5.3.3.2.27.1.2 | Ship completed far detector modules to far site - Block 27 - Planes 1-16 | Planned | 7d | 30Dec13 09Jan14 | 13Jan14 22Jan14 | None | | None | | 2.5.3.3.2.26.2.2[FS-1d]; 2.5.3.3.11.27[SS+1d]; 2.5.3.3.2.27.1.1[FF]; 2.9.4.3.33[FS-1d]; 2.5.3.3.2.27.1.1[SS+1d] | 2.9.4.3.34[SS]; 2.5.3.3.2.27.2.2[FS] |
| 2.5.3.3.2.27.2 | Block 27 - Planes 17-32 | Planned | 25d | 10Dec13 17Jan14 | 10Dec13 30Jan14 | None | | None | | | |
| 2.5.3.3.2.27.2.1 | Assemble and test far detector modules - Block 27 - Planes 17-32 | Planned | 7d | 10Dec13 18Dec13 | 10Dec13 18Dec13 | None | | None | | 2.5.3.3.7.27[FF]; 2.4.3.2.27.2.3[SS+1d]; 2.5.3.3.2.27.1.1[FS]; 2.3.2.13.6[FS] | 2.5.3.3.2.28.1.1[FS]; 2.5.3.3.2.27.2.2[FF]; 2.5.3.3.2.27.2.2[SS+1d] |
| 2.5.3.3.2.27.2.2 | Ship completed far detector modules to far site - Block 27 - Planes 17-32 | Planned | 6d | 10Jan14 17Jan14 | 23Jan14 30Jan14 | None | | None | | 2.5.3.3.11.27[FF+1d]; 2.5.3.3.2.27.1.2[FS]; 2.5.3.3.2.27.2.1[FF]; 2.5.3.3.2.27.2.1[SS+1d] | 2.9.4.3.34[FF]; 2.5.3.3.2.28.1.2[FS] |
| 2.5.3.3.2.28 | Module Assembly - Block 28 | Planned | 33d | 19Dec13 10Feb14 | 19Dec13 20Feb14 | None | | None | | | |
| 2.5.3.3.2.28.1 | Block 28 - Planes 1-16 | Planned | 25d | 19Dec13 29Jan14 | 19Dec13 10Feb14 | None | | None | | | |
| 2.5.3.3.2.28.1.1 | Assemble and test far detector modules - Block 28 - Planes 1-16 | Planned | 7d | 19Dec13 02Jan14 | 19Dec13 02Jan14 | None | | None | | 2.5.1.1.16[FS]; 2.5.1.1.24[FS]; 2.5.3.3.2.27.2.1[FS]; 2.5.3.3.7.28[SS]; 2.4.3.2.28.1.3[SS+1d] | 2.5.3.3.2.28.2.1[FS]; 2.5.3.3.2.28.1.2[FF]; 2.5.3.3.2.28.1.2[SS+1d] |
| 2.5.3.3.2.28.1.2 | Ship completed far detector modules to far site - Block 28 - Planes 1-16 | Planned | 7d | 21Jan14 29Jan14 | 31Jan14 10Feb14 | None | | None | | 2.5.3.3.2.28.1.1[FF]; 2.9.4.3.34[FS-1d]; 2.5.3.3.11.28[SS+1d]; 2.5.3.3.2.27.2.2[FS]; 2.5.3.3.2.28.1.1[SS+1d] | 2.9.4.3.35[SS]; 2.5.3.3.2.28.2.2[FS] |
| 2.5.3.3.2.28.2 | Block 28 - Planes 17-32 | Planned | 26d | 03Jan14 10Feb14 | 03Jan14 20Feb14 | None | | None | | | |
| 2.5.3.3.2.28.2.1 | Assemble and test far detector modules - Block 28 - Planes 17-32 | Planned | 7d | 03Jan14 13Jan14 | 03Jan14 13Jan14 | None | | None | | 2.4.3.2.28.2.3[SS+1d]; 2.5.3.3.2.28.1.1[FS]; 2.5.3.3.7.28[FF] | 2.5.3.3.2.28.2.2[FF]; 2.5.3.3.2.28.2.2[SS+1d]; 2.5.3.3.15[FF]; 2.5.3.3.13[FF]; 2.5.3.3.14[FF]; 2.5.3.3.2.45.90[FS]; 2.5.3.3.2.29.1.1[FF] |
| 2.5.3.3.2.28.2.2 | Ship completed far detector modules to far site - Block 28 - Planes 17-32 | Planned | 6d | 30Jan14 06Feb14 | 11Feb14 18Feb14 | None | | None | | 2.5.3.3.2.28.2.1[FF]; 2.5.3.3.2.28.2.1[SS+1d]; 2.5.3.3.2.28.1.2[FS]; 2.5.3.3.11.28[FF+1d] | 2.5.3.3.2.45.130[FS]; 2.5.3.3.2.29.1.2[FS]; 2.5.3.3.2.28.2.3[FS]; 2.9.4.3.35[FF] |
| 2.5.3.3.2.28.2.3 | Ship used pallet assemblies to extruder - Block 28 | Planned | 2d | 07Feb14 10Feb14 | 19Feb14 20Feb14 | None | | None | | 2.5.3.3.2.28.2.2[FS]; 2.5.3.3.2.26.2.3[FS] | 2.5.3.3.2.30.2.3[FS] |
| 2.5.3.3.2.29 | Module Assembly - Block 29 | Planned | 19d | 13Jan14 07Feb14 | 14Jan14 04Feb14 | None | | None | | | |
| 2.5.3.3.2.29.1 | Block 29 - Planes 1-16 | Planned | 19d | 13Jan14 07Feb14 | 14Jan14 27Jan14 | None | | None | | | |
| 2.5.3.3.2.29.1.1 | Assemble and test far detector modules - Block 29 - Planes 1-16 (OBSOLETE) | Planned | 1d | 13Jan14 13Jan14 | 14Jan14 23Jan14 | None | | None | | 2.4.3.2.29.1.3[SS+1d]; 2.5.3.3.2.28.2.1[FF]; 2.5.3.3.7.29[SS] | 2.5.3.3.2.29.1.2[SS+1d]; 2.5.3.3.2.29.1.2[FF]; 2.5.3.3.2.29.2.1[FF] |
| 2.5.3.3.2.29.1.2 | Ship completed far detector modules to far site - Block 29 - Planes 1-16 (OBSOLETE) | Planned | 1d | 07Feb14 07Feb14 | 16Jan14 27Jan14 | None | | None | | 2.5.3.3.2.29.1.1[SS+1d]; 2.5.3.3.2.28.2.2[FS]; 2.5.3.3.2.29.1.1[FF]; 2.9.4.3.35[FS] | 2.5.3.3.2.29.2.2[FF]; 2.9.4.3.36[SS] |
| 2.5.3.3.2.29.2 | Block 29 - Planes 17-32 | Planned | 19d | 13Jan14 07Feb14 | 24Jan14 04Feb14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.2.29.2.1 | Assemble and test far detector modules - Block 29 - Planes 17-32 (OBSOLETE) | Planned | 1d | 13Jan14 13Jan14 | 24Jan14 03Feb14 | None | | None | | 2.5.3.3.7.29[FF]; 2.4.3.2.29.2.3[SS+1d]; 2.5.3.3.2.29.1.1[FF] | 2.5.3.3.2.29.2.2[SS+1d]; 2.5.3.3.2.30.1.1[FF]; 2.5.3.3.2.29.2.2[FF] |
| 2.5.3.3.2.29.2.2 | Ship completed far detector modules to far site - Block 29 - Planes 17-32 (OBSOLETE) | Planned | 1d | 07Feb14 07Feb14 | 28Jan14 04Feb14 | None | | None | | 2.5.3.3.2.29.1.2[FF]; 2.5.3.3.2.29.2.1[SS+1d]; 2.5.3.3.2.29.2.1[FF] | 2.5.3.3.2.30.1.2[FF]; 2.9.4.3.36[FF] |
| 2.5.3.3.2.30 | Module Assembly - Block 30 | Planned | 21d | 13Jan14 11Feb14 | 04Feb14 10Feb14 | None | | None | | | |
| 2.5.3.3.2.30.1 | Block 30 - Planes 1-16 | Planned | 20d | 13Jan14 10Feb14 | 04Feb14 05Feb14 | None | | None | | | |
| 2.5.3.3.2.30.1.1 | Assemble and test far detector modules - Block 30 - Planes 1-16 (OBSOLETE) | Planned | 1d | 13Jan14 13Jan14 | 04Feb14 04Feb14 | None | | None | | 2.4.3.2.30.1.3[SS+1d]; 2.3.2.12.7.32[FS]; 2.5.3.3.2.29.2.1[FF]; 2.5.3.3.7.30[SS]; 2.3.2.12.7.31[FS] | 2.5.3.3.2.30.1.2[SS+1d]; 2.5.3.3.2.30.1.2[FF]; 2.5.3.3.2.30.2.1[FF]; 2.3.2.13.8[SS-5d] |
| 2.5.3.3.2.30.1.2 | Ship completed far detector modules to far site - Block 30 - Planes 1-16 (OBSOLETE) | Planned | 1d | 10Feb14 10Feb14 | 05Feb14 05Feb14 | None | | None | | 2.5.3.3.2.29.2.2[FF]; 2.5.3.3.2.30.1.1[SS+1d]; 2.5.3.3.2.30.1.1[FF]; 2.9.4.3.36[FS] | 2.5.3.3.2.30.2.2[FF]; 2.9.4.3.37[SS] |
| 2.5.3.3.2.30.2 | Block 30 - Planes 17-32 | Planned | 21d | 13Jan14 11Feb14 | 05Feb14 10Feb14 | None | | None | | | |
| 2.5.3.3.2.30.2.1 | Assemble and test far detector modules - Block 30 - Planes 17-32 (OBSOLETE) | Planned | 1d | 13Jan14 13Jan14 | 05Feb14 05Feb14 | None | | None | | 2.4.3.2.30.2.3[SS+1d]; 2.3.2.12.7.32[FS]; 2.5.3.3.2.30.1.1[FF]; 2.5.3.3.7.30[FF]; 2.3.2.12.7.31[FS] | 2.5.3.3.2.30.2.2[FF]; 2.5.3.3.2.30.2.2[SS+1d]; 2.5.3.3.2.31.1.1[FF] |
| 2.5.3.3.2.30.2.2 | Ship completed far detector modules to far site - Block 30 - Planes 17-32 (OBSOLETE) | Planned | 1d | 10Feb14 10Feb14 | 06Feb14 06Feb14 | None | | None | | 2.5.3.3.2.30.1.2[FF]; 2.5.3.3.2.30.2.1[FF]; 2.5.3.3.2.30.2.1[SS+1d] | 2.5.3.3.2.31.1.2[FF]; 2.5.3.3.2.30.2.3[FS]; 2.9.4.3.37[FF] |
| 2.5.3.3.2.30.2.3 | Ship used pallet assemblies to extruder - Block 30 (OBSOLETE) | Planned | 1d | 11Feb14 11Feb14 | 07Feb14 10Feb14 | None | | None | | 2.5.3.3.2.30.2.2[FS]; 2.5.3.3.2.28.2.3[FS] | 2.5.3.3.2.31.2.3[FF] |
| 2.5.3.3.2.45 | Module Assembly Milestones | In Progress | 571d | 01Nov11 13Feb14 | 02Nov11 05Feb14 | None | | None | | | |
| 2.5.3.3.2.45.44 | Far detector module assembly started | Complete | 0 | 29Feb12 29Feb12 | 16Mar12 16Mar12 | None | | None | | 2.5.3.3.2.1.1.1[SS] | 2.5.3.3.2.45.45[FS] |
| 2.5.3.3.2.45.45 | Far detector modules for superblock 1 completed | Complete | 0 | 31Aug12 31Aug12 | 26Sep12 26Sep12 | None | | None | | 2.5.3.3.2.45.44[FS]; 2.5.3.3.2.5.2.1[FS] | 2.5.3.3.2.45.50[FS] |
| 2.5.3.3.2.45.50 | Far detector modules for superblock 2 completed | Complete | 0 | 10Jan13 10Jan13 | 10Jan13 10Jan13 | None | | None | | 2.5.3.3.2.45.45[FS]; 2.5.3.3.2.10.2.1[FS] | 2.5.3.3.2.45.60[FS] |
| 2.5.3.3.2.45.60 | Far detector modules for superblock 3 completed | Complete | 0 | 26Apr13 26Apr13 | 19Apr13 19Apr13 | None | | None | | 2.5.3.3.2.45.50[FS]; 2.5.3.3.2.15.2.1[FS] | 2.5.3.3.2.45.70[FS] |
| 2.5.3.3.2.45.70 | Far detector modules for superblock 4 completed | Planned | 0 | 30Jul13 30Jul13 | 30Jul13 30Jul13 | None | | None | | 2.5.3.3.2.45.60[FS]; 2.5.3.3.2.20.2.1[FS] | 2.5.3.3.2.45.80[FS] |
| 2.5.3.3.2.45.80 | Far detector modules for superblock 5 completed | Planned | 0 | 06Nov13 06Nov13 | 06Nov13 06Nov13 | None | | None | | 2.5.3.3.2.45.70[FS]; 2.5.3.3.2.25.2.1[FS] | 2.5.3.3.2.45.90[FS] |
| 2.5.3.3.2.45.90 | Far detector modules for superblock 6 completed | Planned | 0 | 13Jan14 13Jan14 | 05Feb14 05Feb14 | None | | None | | 2.5.3.3.2.28.2.1[FS]; 2.5.3.3.2.45.80[FS] | 2.5.3.3.2.45.110[FS] |
| 2.5.3.3.2.45.110 | Far detector modules for superblock 7 completed | Planned | 0 | 13Jan14 13Jan14 | 07Nov13 07Nov13 | None | | None | | 2.5.3.3.2.45.90[FS]; 2.5.3.3.2.33.2.1[FS] | 2.5.3.3.2.45.120[FS] |
| 2.5.3.3.2.45.120 | Far detector modules for 15 kt shipped | Planned | 0 | 13Feb14 13Feb14 | 19Dec13 19Dec13 | None | | None | | 2.5.3.3.2.45.110[FS]; 2.5.3.3.2.33.1.2[FS]; 2.5.3.3.2.33.2.2[FS]; 2.5.3.3.2.45.130[FS] | |
| 2.5.3.3.2.45.130 | Far detector modules for 14 kt shipped | Planned | 0 | 06Feb14 06Feb14 | 27Sep13 27Sep13 | None | | None | | 2.5.3.3.2.28.2.2[FS] | 2.5.3.2.8[FS]; 2.5.3.3.2.45.120[FS] |
| 2.5.3.3.2.45.135 | Far detector modules for Block 1 completed | Complete | 0 | 13Jun12 13Jun12 | 21Jun12 21Jun12 | None | | None | | 2.5.3.3.2.1.2.1[FS] | 2.5.3.3.2.2.1.1[FS] |
| 2.5.3.3.2.45.140 | Far detector modules for Block 2 completed | Complete | 0 | 02Jul12 02Jul12 | 27Jul12 27Jul12 | None | | None | | 2.5.3.3.2.2.2.1[FS] | 2.5.3.3.2.3.1.1[FS] |
| 2.5.3.3.2.45.200 | 2-to-1 assembly for Block 1 completed | Complete | 0 | 01Nov11 01Nov11 | 02Nov11 02Nov11 | None | | None | | 2.5.3.3.7.1[FS] | 2.5.3.3.2.1.1.1[FS] |
| 2.5.3.3.2.45.205 | First PVC modules for Block 1 shipped to Far Detector site | Complete | 0 | 02Apr12 02Apr12 | 05Apr12 05Apr12 | None | | None | | 2.5.3.3.2.1.1.2[SS] | 2.9.4.3.3[SS+1d] |
| 2.5.3.3.3 | Near Detector | In Progress | 921d | 06Jan10 30Aug13 | 06Jan10 06Jan14 | None | | None | | | |
| 2.5.3.3.3.1 | Modify/complete factory tooling for near detector modules (OBSOLETE) | Complete | 1d | 06Jan10 06Jan10 | 06Jan10 06Jan10 | None | | None | | 1.4.3.7.3[FS] | |
| 2.5.3.3.3.2 | Near detector module fabrication started | Complete | 0 | 17May10 17May10 | 06Apr10 06Apr10 | None | | None | | 2.4.3.1.1.5[FS]; 2.4.3.1.2.5[FS]; 1.4.3.7.3[FS]; 1.5.7.3.6[FS] | 2.5.3.3.3.3[SS] |
| 2.5.3.3.3.3 | Assemble and test near detector modules | Complete | 36d | 17May10 09Nov10 | 06Apr10 25May10 | None | | None | | 2.5.3.3.3.2[SS] | 2.5.3.3.3.8[FS]; 2.5.3.3.3.4[FS]; 2.5.3.3.3.5[SS+4d]; 2.5.3.3.3.10[FF]; 2.5.3.3.3.7[SS+12d] |
| 2.5.3.3.3.4 | Restore tooling for far detector modules (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 26May10 26May10 | None | | None | | 2.5.3.3.3.3[FS] | |
| 2.5.3.3.3.5 | Ship completed near detector modules to ANL | Complete | 36d | 01Jun10 09Nov10 | 12Apr10 01Jun10 | None | | None | | 2.5.3.3.3.3[SS+4d] | 2.5.3.3.3.6[FS] |
| 2.5.3.3.3.6 | All near detector modules completed and shipped (6 blks + muon catcher) | Complete | 0 | 09Nov10 09Nov10 | 01Jun10 01Jun10 | None | | None | | 2.5.3.3.3.5[FS]; 2.5.3.3.3.10[FS] | 2.5.3.3.3.11[FS]; 2.8.2.2.2.2[FS] |
| 2.5.3.3.3.7 | ND block 5 module production completed | Complete | 0 | 28Jun10 28Jun10 | 21Apr10 21Apr10 | None | | None | | 1.5.7.3.9[FS+12d]; 2.5.3.3.3.3[SS+12d] | 2.8.2.3.2.2.3[FS]; 2.5.3.3.3.8[FS+12d] |
| 2.5.3.3.3.8 | ND block 6 module production completed | Complete | 0 | 09Nov10 09Nov10 | 07May10 07May10 | None | | None | | 2.5.3.3.3.3[FS]; 2.5.3.3.3.7[FS+12d] | 2.8.2.3.2.2.3[FF]; 2.5.3.3.3.9[FS+12d]; 2.8.2.3.2.2.1[FS] |
| 2.5.3.3.3.9 | ND muon catcher module production completed | Complete | 0 | 02Aug10 02Aug10 | 25May10 25May10 | None | | None | | 2.5.3.3.3.8[FS+12d] | 2.5.3.3.3.10[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.3.10 | All IP/ND modules completed | Complete | 0 | 09Nov10 09Nov10 | 25May10 25May10 | None | | None | | 2.5.3.3.3.9[FS]; 2.5.3.3.3.3[FF] | 2.5.3.3.3.12[FS]; 2.5.3.3.3.6[FS] |
| 2.5.3.3.3.11 | Ship NDOS modules to Fermilab | Complete | 13d | 21Dec12 22Jan13 | 13Dec12 04Jan13 | None | | None | | 2.5.3.3.3.6[FS] | 2.8.7.3.2[FS]; 2.5.4.7.1[FF]; 2.5.3.3.3.29[FS] |
| 2.5.3.3.3.12 | Assemble ND modules - block 1 | Complete | 15d | 01Mar13 12Apr13 | 01Mar13 21Mar13 | None | | None | | 2.5.3.3.3.10[FS] | 2.5.3.3.3.13[FS]; 2.5.3.3.3.20[FS]; 2.5.3.3.3.30[SS] |
| 2.5.3.3.3.13 | Assemble ND modules - block 2 | Complete | 15d | 02May13 22May13 | 22Mar13 11Apr13 | None | | None | | 2.5.3.3.3.12[FS]; 2.5.3.3.3.20[FS] | 2.5.3.3.3.23[SS+10d]; 2.5.3.3.3.14[FS]; 2.5.3.3.3.31[SS] |
| 2.5.3.3.3.14 | Assemble ND modules - block 3 | Complete | 15d | 22May13 03Jun13 | 04Jun13 24Jun13 | None | | None | | 2.5.3.3.3.13[FS] | 2.5.3.3.3.15[FS]; 2.5.3.3.3.24[FS]; 2.5.3.3.3.32[SS] |
| 2.5.3.3.3.15 | Assemble ND modules - block 4 | Complete | 15d | 03Jun13 07Jun13 | 25Jun13 16Jul13 | None | | None | | 2.5.3.3.3.14[FS] | 2.5.3.3.3.16[FS]; 2.5.3.3.3.25[FS]; 2.5.3.3.3.33[SS] |
| 2.5.3.3.3.16 | Assemble ND modules - block 5 | Complete | 15d | 07Jun13 24Jun13 | 01Oct13 21Oct13 | Not Earlier Than | 01Oct13 | None | | 2.5.3.3.3.15[FS] | 2.5.3.3.3.17[FS]; 2.5.3.3.3.34[SS] |
| 2.5.3.3.3.17 | Assemble ND modules - block 6 | In Progress | 15d | 24Jun13 15Jul13 | 22Oct13 11Nov13 | None | | None | | 2.5.3.3.3.16[FS] | 2.5.3.3.3.18[FS]; 2.5.3.3.3.35[SS]; 2.5.3.3.3.26[SS+10d] |
| 2.5.3.3.3.18 | Assemble ND modules - block 7 | Planned | 15d | 16Jul13 05Aug13 | 12Nov13 04Dec13 | None | | None | | 2.5.3.3.3.17[FS] | 2.5.3.3.3.19[FS]; 2.5.3.3.3.36[SS]; 2.5.3.3.3.27[FS] |
| 2.5.3.3.3.19 | Assemble ND modules - block 8 | Planned | 15d | 06Aug13 26Aug13 | 05Dec13 27Dec13 | None | | None | | 2.5.3.3.3.18[FS] | 2.5.3.3.3.37[SS]; 2.5.3.3.3.21[FS]; 2.5.3.3.3.28[FS] |
| 2.5.3.3.3.20 | Assemble ND modules - muon catcher | Complete | 15d | 12Apr13 02May13 | 22Apr13 10May13 | Not Earlier Than | 22Apr13 | None | | 2.5.3.3.3.12[FS] | 2.5.3.3.3.22[SS+5d]; 2.5.3.3.3.38[SS]; 2.5.3.3.3.13[FS] |
| 2.5.3.3.3.21 | Assemble ND modules - extras | Planned | 3d | 27Aug13 29Aug13 | 30Dec13 03Jan14 | None | | None | | 2.5.3.3.3.19[FS] | 2.5.3.3.3.39[SS] |
| 2.5.3.3.3.22 | Ship ND modules - shipments 1-2 | Complete | 4d | 04Apr13 02May13 | 29Mar13 03Apr13 | None | | None | | 2.5.3.3.3.20[SS+5d]; 2.5.3.3.3.38[SS+5d] | 2.8.7.3.9[FS]; 2.5.3.3.3.23[FS] |
| 2.5.3.3.3.23 | Ship ND modules - shipments 3-4 | Complete | 4d | 13May13 20May13 | 28May13 31May13 | None | | None | | 2.5.3.3.3.22[FS]; 2.5.3.3.3.31[SS+10d]; 2.5.3.3.3.13[SS+10d] | 2.8.7.4.8[SS+2d]; 2.5.3.3.3.24[FS]; 2.8.8.3.4[SS+2d] |
| 2.5.3.3.3.24 | Ship ND modules - shipments 5-6 | In Progress | 4d | 06Jun13 02Jul13 | 25Jun13 28Jun13 | None | | None | | 2.5.3.3.3.23[FS]; 2.5.3.3.3.14[FS]; 2.5.3.3.3.32[FS] | 2.8.7.4.15.1[SS+2d]; 2.8.7.4.16.1[FS]; 2.5.3.3.3.25[FS] |
| 2.5.3.3.3.25 | Ship ND modules - shipments 7-8 | Planned | 4d | 03Jul13 09Jul13 | 17Jul13 22Jul13 | None | | None | | 2.5.3.3.3.24[FS]; 2.5.3.3.3.15[FS]; 2.5.3.3.3.33[FS] | 2.8.7.4.17.1[FS]; 2.5.3.3.3.26[FS] |
| 2.5.3.3.3.26 | Ship ND modules - shipments 9-10 | Planned | 4d | 10Jul13 15Jul13 | 05Nov13 08Nov13 | None | | None | | 2.5.3.3.3.25[FS]; 2.5.3.3.3.35[SS+10d]; 2.5.3.3.3.17[SS+10d] | 2.8.7.4.18.1[SS+2d]; 2.5.3.3.3.27[FS] |
| 2.5.3.3.3.27 | Ship ND modules - shipments 11-12 | Planned | 4d | 06Aug13 09Aug13 | 05Dec13 10Dec13 | None | | None | | 2.5.3.3.3.26[FS]; 2.5.3.3.3.36[FS]; 2.5.3.3.3.18[FS] | 2.8.7.4.19.1[SS+2d]; 2.8.7.4.20.1[FS]; 2.5.3.3.3.28[FS] |
| 2.5.3.3.3.28 | Ship ND modules - shipments 13-14 | Planned | 4d | 27Aug13 30Aug13 | 30Dec13 06Jan14 | None | | None | | 2.5.3.3.3.27[FS]; 2.5.3.3.3.37[FS]; 2.5.3.3.3.39[FF]; 2.5.3.3.3.19[FS] | 2.5.4.8.1[FF] |
| 2.5.3.3.3.29 | Procure sanding tooling and supplies | Complete | 10d | 01Apr13 29Apr13 | 15Feb13 28Feb13 | None | | None | | 2.5.3.3.3.11[FS] | 2.5.3.3.3.30[SS] |
| 2.5.3.3.3.30 | Sand modules - ND block 1 | Complete | 15d | 01Apr13 12Apr13 | 01Mar13 21Mar13 | None | | None | | 2.5.3.3.3.29[SS]; 2.5.3.3.3.12[SS] | 2.5.3.3.3.38[FS] |
| 2.5.3.3.3.31 | Sand modules - ND block 2 | Complete | 15d | 02May13 22May13 | 22Mar13 11Apr13 | None | | None | | 2.5.3.3.3.38[FS]; 2.5.3.3.3.13[SS] | 2.5.3.3.3.23[SS+10d]; 2.5.3.3.3.32[FS] |
| 2.5.3.3.3.32 | Sand modules - ND block 3 | Complete | 15d | 22May13 03Jun13 | 04Jun13 24Jun13 | None | | None | | 2.5.3.3.3.14[SS]; 2.5.3.3.3.31[FS] | 2.5.3.3.3.24[FS]; 2.5.3.3.3.33[FS] |
| 2.5.3.3.3.33 | Sand modules - ND block 4 | Complete | 15d | 03Jun13 07Jun13 | 25Jun13 16Jul13 | None | | None | | 2.5.3.3.3.32[FS]; 2.5.3.3.3.15[SS] | 2.5.3.3.3.34[FS]; 2.5.3.3.3.25[FS] |
| 2.5.3.3.3.34 | Sand modules - ND block 5 | Complete | 15d | 07Jun13 24Jun13 | 01Oct13 21Oct13 | None | | None | | 2.5.3.3.3.16[SS]; 2.5.3.3.3.33[FS] | 2.5.3.3.3.35[FS] |
| 2.5.3.3.3.35 | Sand modules - ND block 6 | In Progress | 15d | 24Jun13 15Jul13 | 22Oct13 11Nov13 | None | | None | | 2.5.3.3.3.17[SS]; 2.5.3.3.3.34[FS] | 2.5.3.3.3.26[SS+10d]; 2.5.3.3.3.36[FS] |
| 2.5.3.3.3.36 | Sand modules - ND block 7 | Planned | 15d | 16Jul13 05Aug13 | 12Nov13 04Dec13 | None | | None | | 2.5.3.3.3.18[SS]; 2.5.3.3.3.35[FS] | 2.5.3.3.3.27[FS]; 2.5.3.3.3.37[FS] |
| 2.5.3.3.3.37 | Sand modules - ND block 8 | Planned | 15d | 06Aug13 26Aug13 | 05Dec13 27Dec13 | None | | None | | 2.5.3.3.3.19[SS]; 2.5.3.3.3.36[FS] | 2.5.3.3.3.39[FS]; 2.5.3.3.3.28[FS] |
| 2.5.3.3.3.38 | Sand modules - muon catcher | Complete | 15d | 12Apr13 02May13 | 22Apr13 10May13 | None | | None | | 2.5.3.3.3.30[FS]; 2.5.3.3.3.20[SS] | 2.5.3.3.3.31[FS]; 2.5.3.3.3.22[SS+5d] |
| 2.5.3.3.3.39 | Sand modules - extras | Planned | 3d | 27Aug13 29Aug13 | 30Dec13 03Jan14 | None | | None | | 2.5.3.3.3.37[FS]; 2.5.3.3.3.21[SS] | 2.5.3.3.3.28[FF] |
| 2.5.3.3.4 | Maintain module quality assurance tracking system | In Progress | 750d | 01Sep10 29Aug13 | 10Sep10 04Sep13 | None | | None | | 2.5.3.1.11[FS] | 2.5.3.3.9[FF]; 2.5.3.3.14[FS]; 2.5.3.3.12[SS] |
| 2.5.3.3.5 | Materials strength and chemical interactions QA testing | In Progress | 750d | 01Sep10 29Aug13 | 01Sep10 26Aug13 | None | | None | | 1.5.2.3.10[FS]; 1.5.2.3.9[FS] | 2.5.3.3.13[FS-3d] |
| 2.5.3.3.6 | Procure airbags for module shipping | Complete | 45d | 25Oct10 09Nov10 | 25Oct10 30Dec10 | None | | None | | | 2.5.3.3.2.1.1.2[FS] |
| 2.5.3.3.7 | 2-to-1 Assembly | In Progress | 603d | 08Jul11 27Nov13 | 01Jul11 27Nov13 | None | | None | | | |
| 2.5.3.3.7.1 | 2-to-1 assembly - Block 1 | Complete | 43d | 08Jul11 01Sep11 | 01Jul11 31Aug11 | None | | None | | 2.4.3.2.1.2.4[SS+1d]; 2.4.3.2.2.2.3[FF+1d] | 2.5.3.3.8.1[SS]; 2.5.3.3.8.1[FF]; 2.5.3.3.2.45.200[FS]; 2.5.3.3.7.2[FS]; 2.5.3.3.2.1.1.1[SS]; 2.5.3.3.2.1.2.1[FF] |
| 2.5.3.3.7.2 | 2-to-1 assembly - Block 2 | Complete | 42d | 02Aug11 28Sep11 | 01Sep11 31Oct11 | None | | None | | 2.5.3.3.7.1[FS]; 2.4.3.2.3.2.3[SS+1d]; 2.4.3.2.4.2.3[FF+1d] | 2.5.3.3.2.2.1.1[SS]; 2.5.3.3.8.2[FF]; 2.5.3.3.8.2[SS]; 2.5.3.3.7.3[FS]; 2.5.3.3.2.2.2.1[FF] |
| 2.5.3.3.7.3 | 2-to-1 assembly - Block 3 | Complete | 16d | 28Sep11 30Nov11 | 01Nov11 22Nov11 | None | | None | | 2.5.3.3.7.2[FS]; 2.4.3.2.2.1.3[FF+1d]; 2.4.3.2.1.1.4[SS+1d] | 2.5.3.3.2.3.1.1[SS]; 2.5.3.3.8.3[SS]; 2.5.3.3.8.3[FF]; 2.5.3.3.7.4[FS]; 2.5.3.3.2.3.2.1[FF] |
| 2.5.3.3.7.4 | 2-to-1 assembly - Block 4 | Complete | 20d | 05Dec11 05Jan12 | 05Dec11 05Jan12 | None | | None | | 2.5.3.3.7.3[FS]; 2.4.3.2.4.1.3[FF+1d]; 2.4.3.2.3.1.3[SS+1d] | 2.5.3.3.7.5[FS]; 2.5.3.3.2.4.1.1[SS]; 2.5.3.3.2.4.2.1[FF] |
| 2.5.3.3.7.5 | 2-to-1 assembly - Block 5 | Complete | 16d | 06Jan12 30Jan12 | 06Jan12 30Jan12 | None | | None | | 2.5.3.3.7.4[FS]; 2.4.3.2.5.1.3[SS+1d]; 2.4.3.2.5.2.3[FF+1d] | 2.5.3.3.7.6[FS]; 2.5.3.3.2.5.2.1[FF]; 2.5.3.3.2.5.1.1[SS] |
| 2.5.3.3.7.6 | 2-to-1 assembly - Block 6 | Complete | 16d | 31Jan12 21Feb12 | 31Jan12 21Feb12 | None | | None | | 2.5.3.3.7.5[FS]; 2.4.3.2.6.1.3[SS+1d]; 2.4.3.2.6.2.3[FF+1d] | 2.5.3.3.2.6.2.1[FF]; 2.5.3.3.7.7[FS]; 2.5.3.3.2.6.1.1[SS] |
| 2.5.3.3.7.7 | 2-to-1 assembly - Block 7 | Complete | 16d | 22Feb12 05Mar12 | 22Feb12 14Mar12 | None | | None | | 2.5.3.3.7.6[FS]; 2.4.3.2.7.1.3[SS+1d]; 2.4.3.2.7.2.3[FF+1d] | 2.5.3.3.2.7.1.1[SS]; 2.5.3.3.7.8[FS]; 2.5.3.3.2.7.2.1[FF] |
| 2.5.3.3.7.8 | 2-to-1 assembly - Block 8 | Complete | 16d | 05Mar12 26Mar12 | 15Mar12 05Apr12 | None | | None | | 2.5.3.3.7.7[FS]; 2.4.3.2.8.2.3[FF+1d]; 2.4.3.2.8.1.3[SS+1d] | 2.5.3.3.7.9[FS]; 2.5.3.3.2.8.1.1[SS]; 2.5.3.3.2.8.2.1[FF] |
| 2.5.3.3.7.9 | 2-to-1 assembly - Block 9 | Complete | 16d | 27Mar12 23May12 | 06Apr12 27Apr12 | None | | None | | 2.5.3.3.7.8[FS]; 2.4.3.2.9.2.3[FF+1d]; 2.4.3.2.9.1.3[SS+1d] | 2.5.3.3.7.10[FS]; 2.5.3.3.2.9.1.1[SS]; 2.5.3.3.2.9.2.1[FF] |
| 2.5.3.3.7.10 | 2-to-1 assembly - Block 10 | Complete | 16d | 24May12 19Jun12 | 25Jun12 17Jul12 | None | | None | | 2.5.3.3.7.9[FS]; 2.4.3.2.10.1.3[SS+1d]; 2.4.3.2.10.2.3[FF+1d] | 2.5.3.3.7.11[FS]; 2.5.3.3.2.10.2.1[FF]; 2.5.3.3.2.10.1.1[SS] |
| 2.5.3.3.7.11 | 2-to-1 assembly - Block 11 | Complete | 16d | 19Jun12 11Jul12 | 18Jul12 08Aug12 | None | | None | | 2.4.3.2.11.2.3[FF+1d]; 2.5.3.3.7.10[FS]; 2.4.3.2.11.1.3[SS+1d] | 2.5.3.3.7.12[FS]; 2.5.3.3.2.11.1.1[SS]; 2.5.3.3.2.11.2.1[FF] |
| 2.5.3.3.7.12 | 2-to-1 assembly - Block 12 | Complete | 16d | 11Jul12 04Dec12 | 09Aug12 30Aug12 | None | | None | | 2.5.3.3.7.11[FS]; 2.4.3.2.12.1.3[SS+1d]; 2.4.3.2.12.2.3[FF+1d] | 2.5.3.3.7.13[FS]; 2.5.3.3.2.12.1.1[SS]; 2.5.3.3.2.12.2.1[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.7.13 | 2-to-1 assembly - Block 13 | Complete | 14d | 04Dec12 18Jan13 | 11Jan13 31Jan13 | None | | None | | 2.4.3.2.13.2.3[FF+1d]; 2.4.3.2.13.1.3[SS+1d]; 2.5.3.3.7.12[FS] | 2.5.3.3.7.14[FS]; 2.5.3.3.2.13.2.1[FF]; 2.5.3.3.2.13.1.1[SS] |
| 2.5.3.3.7.14 | 2-to-1 assembly - Block 14 | Complete | 14d | 18Jan13 15Feb13 | 01Feb13 20Feb13 | None | | None | | 2.4.3.2.14.1.3[SS+1d]; 2.4.3.2.14.2.3[FF+1d]; 2.5.3.3.7.13[FS] | 2.5.3.3.7.15[FS]; 2.5.3.3.2.14.1.1[SS]; 2.5.3.3.2.14.2.1[FF] |
| 2.5.3.3.7.15 | 2-to-1 assembly - Block 15 | Complete | 14d | 15Feb13 07Mar13 | 21Feb13 12Mar13 | None | | None | | 2.4.3.2.15.2.3[FF+1d]; 2.5.3.3.7.14[FS]; 2.4.3.2.15.1.3[SS+1d] | 2.5.3.3.2.15.2.1[FF]; 2.5.3.3.7.16[FS]; 2.5.3.3.2.15.1.1[SS] |
| 2.5.3.3.7.16 | 2-to-1 assembly - Block 16 | Complete | 14d | 07Mar13 28Mar13 | 13Mar13 01Apr13 | None | | None | | 2.5.3.2.9[FS]; 2.5.3.3.7.15[FS]; 2.4.3.2.16.1.3[SS+1d]; 2.4.3.2.16.2.3[FF+1d] | 2.5.3.3.2.16.1.1[SS]; 2.5.3.3.2.16.2.1[FF]; 2.5.3.3.7.17[FS] |
| 2.5.3.3.7.17 | 2-to-1 assembly - Block 17 | Complete | 14d | 29Mar13 18Apr13 | 02Apr13 19Apr13 | None | | None | | 2.5.3.3.7.16[FS]; 2.4.3.2.17.2.3[FF+1d]; 2.4.3.2.17.1.3[SS+1d] | 2.5.3.3.7.18[FS]; 2.5.3.3.2.17.2.1[FF]; 2.5.3.3.2.17.1.1[SS] |
| 2.5.3.3.7.18 | 2-to-1 assembly - Block 18 | Complete | 14d | 18Apr13 13May13 | 22Apr13 09May13 | None | | None | | 2.5.3.3.7.17[FS]; 2.4.3.2.18.1.3[SS+1d]; 2.4.3.2.18.2.3[FF+1d] | 2.5.3.3.7.19[FS]; 2.5.3.3.2.18.2.1[FF]; 2.5.3.3.2.18.1.1[SS] |
| 2.5.3.3.7.19 | 2-to-1 assembly - Block 19 | Complete | 14d | 13May13 30May13 | 10May13 30May13 | None | | None | | 2.5.3.3.7.18[FS]; 2.4.3.2.19.1.3[SS+1d]; 2.4.3.2.19.2.3[FF+1d] | 2.5.3.3.2.19.2.1[FF]; 2.5.3.3.7.20[FS]; 2.5.3.3.2.19.1.1[SS] |
| 2.5.3.3.7.20 | 2-to-1 assembly - Block 20 | Complete | 14d | 30May13 27Jun13 | 31May13 19Jun13 | None | | None | | 2.5.3.3.7.19[FS]; 2.4.3.2.20.1.3[SS+1d]; 2.4.3.2.20.2.3[FF+1d] | 2.5.3.3.2.20.1.1[SS]; 2.5.3.3.2.20.2.1[FF]; 2.5.3.3.7.21[FS] |
| 2.5.3.3.7.21 | 2-to-1 assembly - Block 21 | In Progress | 14d | 27Jun13 11Jul13 | 20Jun13 10Jul13 | None | | None | | 2.4.3.2.21.2.3[FF+1d]; 2.5.3.3.7.20[FS]; 2.4.3.2.21.1.3[SS+1d] | 2.5.3.3.2.21.2.1[FF]; 2.5.3.3.7.22[FS]; 2.5.3.3.2.21.1.1[SS] |
| 2.5.3.3.7.22 | 2-to-1 assembly - Block 22 | Planned | 14d | 12Jul13 31Jul13 | 11Jul13 30Jul13 | None | | None | | 2.4.3.2.22.2.3[FF+1d]; 2.4.3.2.22.1.3[SS+1d]; 2.5.3.3.7.21[FS] | 2.5.3.3.7.23[FS]; 2.5.3.3.2.22.2.1[FF]; 2.5.3.3.2.22.1.1[SS] |
| 2.5.3.3.7.23 | 2-to-1 assembly - Block 23 | Planned | 14d | 01Aug13 20Aug13 | 31Jul13 19Aug13 | None | | None | | 2.4.3.2.23.2.3[FF+1d]; 2.4.3.2.23.1.3[SS+1d]; 2.5.3.3.7.22[FS] | 2.5.3.3.7.24[FS]; 2.5.3.3.2.23.1.1[SS]; 2.5.3.3.2.23.2.1[FF] |
| 2.5.3.3.7.24 | 2-to-1 assembly - Block 24 | Planned | 14d | 21Aug13 10Sep13 | 20Aug13 09Sep13 | None | | None | | 2.4.3.2.24.2.3[FF+1d]; 2.4.3.2.24.1.3[SS+1d]; 2.5.3.3.7.23[FS] | 2.5.3.3.2.24.1.1[SS]; 2.5.3.3.2.24.2.1[FF]; 2.5.3.3.7.25[FS] |
| 2.5.3.3.7.25 | 2-to-1 assembly - Block 25 | Planned | 14d | 11Sep13 30Sep13 | 10Sep13 27Sep13 | None | | None | | 2.4.3.2.25.2.3[FF+1d]; 2.4.3.2.25.1.3[SS+1d]; 2.5.3.3.7.24[FS] | 2.5.3.3.7.26[FS]; 2.5.3.3.2.25.2.1[FF]; 2.5.3.3.2.25.1.1[SS] |
| 2.5.3.3.7.26 | 2-to-1 assembly - Block 26 | Planned | 14d | 01Oct13 18Oct13 | 30Sep13 17Oct13 | None | | None | | 2.4.3.2.26.1.3[SS+1d]; 2.4.3.2.26.2.3[FF+1d]; 2.5.3.3.7.25[FS] | 2.5.3.3.2.26.2.1[FF]; 2.5.3.3.7.27[FS]; 2.5.3.3.2.26.1.1[SS] |
| 2.5.3.3.7.27 | 2-to-1 assembly - Block 27 | Planned | 14d | 21Oct13 07Nov13 | 18Oct13 06Nov13 | None | | None | | 2.4.3.2.27.2.3[FF+1d]; 2.4.3.2.27.1.3[SS+1d]; 2.5.3.3.7.26[FS] | 2.5.3.3.2.27.1.1[SS]; 2.5.3.3.2.27.2.1[FF]; 2.5.3.3.7.28[FS] |
| 2.5.3.3.7.28 | 2-to-1 assembly - Block 28 | Planned | 14d | 08Nov13 27Nov13 | 07Nov13 26Nov13 | None | | None | | 2.5.3.3.7.27[FS]; 2.4.3.2.28.2.3[FF+1d]; 2.4.3.2.28.1.3[SS+1d] | 2.5.3.3.7.29[FF]; 2.5.3.3.2.28.2.1[FF]; 2.5.3.3.2.28.1.1[SS] |
| 2.5.3.3.7.29 | 2-to-1 assembly - Block 29 (OBSOLETE) | Planned | 1d | 27Nov13 27Nov13 | 27Nov13 27Nov13 | None | | None | | 2.5.3.3.7.28[FF]; 2.4.3.2.29.1.3[SS+1d]; 2.4.3.2.29.2.3[FF+1d] | 2.5.3.3.2.29.2.1[FF]; 2.5.3.3.7.30[FF]; 2.5.3.3.2.29.1.1[SS] |
| 2.5.3.3.7.30 | 2-to-1 assembly - Block 30 (OBSOLETE) | Planned | 1d | 27Nov13 27Nov13 | 27Nov13 27Nov13 | None | | None | | 2.5.3.3.7.29[FF]; 2.4.3.2.30.1.3[SS+1d]; 2.4.3.2.30.2.3[FF+1d] | 2.5.3.3.2.30.2.1[FF]; 2.5.3.3.2.30.1.1[SS] |
| 2.5.3.3.8 | Precison Cutting of Module Ends | Complete | 73d | 09Sep11 22Dec11 | 06Sep11 31Jan12 | None | | None | | | |
| 2.5.3.3.8.1 | Cut module ends - Block 1 | Complete | 33d | 09Sep11 20Oct11 | 06Sep11 20Oct11 | None | | None | | 2.5.3.3.7.1[SS]; 2.5.3.3.7.1[FF] | 2.5.3.3.2.1.1.1[SS]; 2.5.3.3.8.2[FS]; 2.5.3.3.2.1.2.1[FF] |
| 2.5.3.3.8.2 | Cut module ends - Block 2 | Complete | 33d | 21Oct11 23Nov11 | 21Oct11 08Dec11 | None | | None | | 2.5.3.3.7.2[FF]; 2.5.3.3.7.2[SS]; 2.5.3.3.8.1[FS] | 2.5.3.3.2.2.2.1[FF]; 2.5.3.3.8.3[FS]; 2.5.3.3.2.2.1.1[SS] |
| 2.5.3.3.8.3 | Cut module ends - Block 3 | Complete | 33d | 28Nov11 22Dec11 | 09Dec11 31Jan12 | None | | None | | 2.5.3.3.7.3[SS]; 2.5.3.3.8.2[FS]; 2.5.3.3.7.3[FF] | 2.5.3.3.2.3.1.1[SS]; 2.5.3.3.2.3.2.1[FF] |
| 2.5.3.3.9 | Manage module production QA software system - additional | In Progress | 483d | 03Jan12 22Nov13 | 03Jan12 27Nov13 | None | | None | | 2.5.3.3.4[FF] | 2.5.3.3.15[FS] |
| 2.5.3.3.10 | Initial module sanding | Complete | 69d | 14Sep12 30Nov12 | 10Sep12 17Dec12 | None | | None | | 2.5.3.3.2.3.1.1[SS] | 2.5.3.3.11.6[FS]; 2.5.3.3.2.6.2.2[FF] |
| 2.5.3.3.11 | Module Sanding | In Progress | 293d | 03Dec12 05Feb14 | 04Dec12 03Feb14 | None | | None | | | |
| 2.5.3.3.11.6 | Sand modules - Block 6 | Complete | 12d | 03Dec12 03Dec12 | 04Dec12 19Dec12 | None | | None | | 2.4.3.2.6.1.3[FS]; 2.5.3.3.10[FS]; 2.9.4.3.7[FS-10d] | 2.5.3.3.2.6.1.2[SS+1d]; 2.5.3.3.2.6.2.2[FF+1d]; 2.5.3.3.11.7[FS] |
| 2.5.3.3.11.7 | Sand modules - Block 7 | Complete | 12d | 03Dec12 02Jan13 | 20Dec12 10Jan13 | None | | None | | 2.9.4.3.9[FS-10d]; 2.5.3.3.11.6[FS]; 2.4.3.2.7.1.3[FS] | 2.5.3.3.11.8[FS]; 2.5.3.3.2.7.1.2[SS+1d]; 2.5.3.3.2.7.2.2[FF+1d] |
| 2.5.3.3.11.8 | Sand modules - Block 8 | Complete | 12d | 02Jan13 21Jan13 | 11Jan13 29Jan13 | None | | None | | 2.5.3.3.11.7[FS]; 2.9.4.3.10[FS-10d]; 2.4.3.2.8.1.3[FS] | 2.5.3.3.11.9[FS]; 2.5.3.3.2.8.2.2[FF+1d]; 2.5.3.3.2.8.1.2[SS+1d] |
| 2.5.3.3.11.9 | Sand modules - Block 9 | Complete | 12d | 21Jan13 14Feb13 | 30Jan13 14Feb13 | None | | None | | 2.5.3.3.11.8[FS]; 2.9.4.3.11[FS-10d]; 2.4.3.2.9.1.3[FS] | 2.5.3.3.11.10[FS]; 2.5.3.3.2.9.1.2[SS+1d]; 2.5.3.3.2.9.2.2[FF+1d] |
| 2.5.3.3.11.10 | Sand modules - Block 10 | Complete | 12d | 14Feb13 13Mar13 | 15Feb13 04Mar13 | None | | None | | 2.5.3.3.11.9[FS]; 2.9.4.3.12[FS-10d]; 2.4.3.2.10.1.3[FS] | 2.5.3.3.11.11[FS]; 2.5.3.3.2.10.1.2[SS+1d]; 2.5.3.3.2.10.2.2[FF+1d] |
| 2.5.3.3.11.11 | Sand modules - Block 11 | Complete | 12d | 13Mar13 01Apr13 | 05Mar13 20Mar13 | None | | None | | 2.9.4.3.13[FS-10d]; 2.5.3.3.11.10[FS]; 2.4.3.2.11.1.3[FS] | 2.5.3.3.2.11.1.2[SS+1d]; 2.5.3.3.11.12[FS]; 2.5.3.3.2.11.2.2[FF+1d] |
| 2.5.3.3.11.12 | Sand modules - Block 12 | Complete | 12d | 01Apr13 15Apr13 | 21Mar13 05Apr13 | None | | None | | 2.9.4.3.15[FS-10d]; 2.5.3.3.11.11[FS]; 2.4.3.2.12.1.3[FS] | 2.5.3.3.2.12.1.2[SS+1d]; 2.5.3.3.11.13[FS]; 2.5.3.3.2.12.2.2[FF+1d] |
| 2.5.3.3.11.13 | Sand modules - Block 13 | Complete | 12d | 15Apr13 29Apr13 | 08Apr13 23Apr13 | None | | None | | 2.5.3.3.11.12[FS]; 2.9.4.3.16[FS-10d]; 2.4.3.2.13.1.3[FS] | 2.5.3.3.2.13.2.2[FF+1d]; 2.5.3.3.11.14[FS]; 2.5.3.3.2.13.1.2[SS+1d] |
| 2.5.3.3.11.14 | Sand modules - Block 14 | Complete | 12d | 29Apr13 13May13 | 24Apr13 09May13 | None | | None | | 2.5.3.3.11.13[FS]; 2.9.4.3.17[FS-10d]; 2.4.3.2.14.1.3[FS] | 2.5.3.3.11.15[FS]; 2.5.3.3.2.14.1.2[SS+1d]; 2.5.3.3.2.14.2.2[FF+1d] |
| 2.5.3.3.11.15 | Sand modules - Block 15 | Complete | 13d | 13May13 05Jun13 | 10May13 29May13 | None | | None | | 2.5.3.3.11.14[FS]; 2.9.4.3.18[FS-10d]; 2.4.3.2.15.1.3[FS] | 2.5.3.3.11.16[FS]; 2.5.3.3.2.15.2.2[FF+1d]; 2.5.3.3.2.15.1.2[SS+1d] |
| 2.5.3.3.11.16 | Sand modules - Block 16 | Complete | 13d | 05Jun13 20Jun13 | 30May13 17Jun13 | None | | None | | 2.9.4.3.19[FS-10d]; 2.5.3.3.11.15[FS]; 2.4.3.2.16.1.3[FS] | 2.5.3.3.11.17[FS]; 2.5.3.3.2.16.1.2[SS+1d]; 2.5.3.3.2.16.2.2[FF+1d] |
| 2.5.3.3.11.17 | Sand modules - Block 17 | In Progress | 13d | 20Jun13 09Jul13 | 18Jun13 05Jul13 | None | | None | | 2.5.3.3.11.16[FS]; 2.9.4.3.21[FS-10d]; 2.4.3.2.17.1.3[FS] | 2.5.3.3.11.18[FS]; 2.5.3.3.2.17.2.2[FF+1d]; 2.5.3.3.2.17.1.2[SS+1d] |
| 2.5.3.3.11.18 | Sand modules - Block 18 | Planned | 13d | 10Jul13 26Jul13 | 08Jul13 24Jul13 | None | | None | | 2.5.3.3.11.17[FS]; 2.4.3.2.18.1.3[FS]; 2.9.4.3.22[FS-10d] | 2.5.3.3.11.19[FS]; 2.5.3.3.2.18.1.2[SS+1d]; 2.5.3.3.2.18.2.2[FF+1d] |
| 2.5.3.3.11.19 | Sand modules - Block 19 | Planned | 13d | 29Jul13 14Aug13 | 25Jul13 12Aug13 | None | | None | | 2.5.3.3.11.18[FS]; 2.4.3.2.19.1.3[FS]; 2.9.4.3.23[FS-10d] | 2.5.3.3.11.20[FS]; 2.5.3.3.2.19.2.2[FF+1d]; 2.5.3.3.2.19.1.2[SS+1d] |
| 2.5.3.3.11.20 | Sand modules - Block 20 | Planned | 13d | 15Aug13 03Sep13 | 13Aug13 29Aug13 | None | | None | | 2.5.3.3.11.19[FS]; 2.4.3.2.20.1.3[FS]; 2.9.4.3.24[FS-10d] | 2.5.3.3.11.21[FS]; 2.5.3.3.2.20.1.2[SS+1d]; 2.5.3.3.2.20.2.2[FF+1d] |
| 2.5.3.3.11.21 | Sand modules - Block 21 | Planned | 13d | 04Sep13 20Sep13 | 30Aug13 18Sep13 | None | | None | | 2.5.3.3.11.20[FS]; 2.4.3.2.21.1.3[FS]; 2.9.4.3.25[FS-10d] | 2.5.3.3.11.22[FS]; 2.5.3.3.2.21.2.2[FF+1d]; 2.5.3.3.2.21.1.2[SS+1d] |
| 2.5.3.3.11.22 | Sand modules - Block 22 | Planned | 13d | 23Sep13 09Oct13 | 19Sep13 07Oct13 | None | | None | | 2.5.3.3.11.21[FS]; 2.4.3.2.22.1.3[FS]; 2.9.4.3.27[FS-10d] | 2.5.3.3.11.23[FS]; 2.5.3.3.2.22.1.2[SS+1d]; 2.5.3.3.2.22.2.2[FF+1d] |
| 2.5.3.3.11.23 | Sand modules - Block 23 | Planned | 13d | 10Oct13 28Oct13 | 08Oct13 24Oct13 | None | | None | | 2.5.3.3.11.22[FS]; 2.9.4.3.28[FS-10d]; 2.4.3.2.23.1.3[FS] | 2.5.3.3.11.24[FS]; 2.5.3.3.2.23.1.2[SS+1d]; 2.5.3.3.2.23.2.2[FF+1d] |
| 2.5.3.3.11.24 | Sand modules - Block 24 | Planned | 13d | 29Oct13 14Nov13 | 25Oct13 12Nov13 | None | | None | | 2.5.3.3.11.23[FS]; 2.9.4.3.29[FS-10d]; 2.4.3.2.24.1.3[FS] | 2.5.3.3.11.25[FS]; 2.5.3.3.2.24.2.2[FF+1d]; 2.5.3.3.2.24.1.2[SS+1d] |
| 2.5.3.3.11.25 | Sand modules - Block 25 | Planned | 13d | 15Nov13 05Dec13 | 13Nov13 03Dec13 | None | | None | | 2.5.3.3.11.24[FS]; 2.9.4.3.30[FS-10d]; 2.4.3.2.25.1.3[FS] | 2.5.3.3.11.26[FS]; 2.5.3.3.2.25.1.2[SS+1d]; 2.5.3.3.2.25.2.2[FF+1d] |
| 2.5.3.3.11.26 | Sand modules - Block 26 | Planned | 13d | 06Dec13 26Dec13 | 04Dec13 20Dec13 | None | | None | | 2.5.3.3.11.25[FS]; 2.4.3.2.26.1.3[FS]; 2.9.4.3.31[FS-10d] | 2.5.3.3.11.27[FS]; 2.5.3.3.2.26.1.2[SS+1d]; 2.5.3.3.2.26.2.2[FF+1d] |
| 2.5.3.3.11.27 | Sand modules - Block 27 | Planned | 13d | 27Dec13 16Jan14 | 23Dec13 14Jan14 | None | | None | | 2.5.3.3.11.26[FS]; 2.4.3.2.27.1.3[FS]; 2.9.4.3.33[FS-10d] | 2.5.3.3.11.28[FS]; 2.5.3.3.2.27.1.2[SS+1d]; 2.5.3.3.2.27.2.2[FF+1d] |
| 2.5.3.3.11.28 | Sand modules - Block 28 | Planned | 13d | 17Jan14 05Feb14 | 15Jan14 03Feb14 | None | | None | | 2.4.3.2.28.1.3[FS]; 2.5.3.3.11.27[FS]; 2.9.4.3.34[FS-10d] | 2.5.3.3.2.28.2.2[FF+1d]; 2.5.3.3.2.28.1.2[SS+1d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.5.3.3.12 | Additional hardware and software for QA system | Complete | 59d | 03Dec12 28Feb13 | 03Dec12 28Feb13 | None | | None | | 2.5.3.3.4[SS] | |
| 2.5.3.3.13 | Additional materials testing | Planned | 93d | 27Aug13 13Jan14 | 27Aug13 13Jan14 | None | | None | | 2.5.3.3.5[FS-3d]; 2.5.3.3.2.28.2.1[FF] | 2.5.4.8.1[FF] |
| 2.5.3.3.14 | Maintain module quality assurance tracking system - supplemental | Planned | 87d | 05Sep13 13Jan14 | 05Sep13 13Jan14 | Not Earlier Than | 05Sep13 | None | | 2.5.3.3.4[FS]; 2.5.3.3.2.28.2.1[FF] | 2.5.4.8.1[FF] |
| 2.5.3.3.15 | Manage module production QA software system - additional 2 | Planned | 54d | 25Nov13 17Feb14 | 02Dec13 20Feb14 | None | | None | | 2.5.3.3.2.28.2.1[FF]; 2.5.3.3.9[FS] | 2.5.4.8.1[FF] |
| 2.5.4 | Management - Construction Phase | In Progress | 1630d | 01Oct07 31Mar14 | 01Oct07 31Mar14 | None | | None | | | |
| 2.5.4.2 | FY08 (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.5.4.2.1 | Labor (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.5.4.3.1[FS] |
| 2.5.4.2.2 | Travel (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.5.4.3.2[FS] |
| 2.5.4.2.3 | Equipment (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.5.4.3.3[FS] |
| 2.5.4.2.4 | Materials and supplies (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.5.4.3.4[FS] |
| 2.5.4.3 | FY09 | Complete | 251d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.5.4.3.1 | Labor | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.5.4.2.1[FS] | 2.5.4.4.1[FS] |
| 2.5.4.3.2 | Travel | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.5.4.2.2[FS] | 2.5.4.4.2[FS] |
| 2.5.4.3.3 | Equipment | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.5.4.2.3[FS] | 2.5.4.4.3[FS] |
| 2.5.4.3.4 | Materials and supplies | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.5.4.2.4[FS] | 2.5.4.4.4[FS] |
| 2.5.4.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.5.4.4.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.5.4.3.1[FS] | 2.5.4.5.1[FS] |
| 2.5.4.4.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.5.4.3.2[FS] | 2.5.4.5.2[FS] |
| 2.5.4.4.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.5.4.3.3[FS] | 2.5.4.5.3[FS] |
| 2.5.4.4.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.5.4.3.4[FS] | 2.5.4.5.4[FS] |
| 2.5.4.4.5 | Additional Travel-module QC | Complete | 128d | 01Apr10 30Sep10 | 01Apr10 30Sep10 | None | | None | | | |
| 2.5.4.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.5.4.5.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.5.4.4.1[FS] | 2.5.4.6.1[FS] |
| 2.5.4.5.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.5.4.4.2[FS] | 2.5.4.6.2[FS] |
| 2.5.4.5.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.5.4.4.3[FS] | 2.5.4.6.3[FS] |
| 2.5.4.5.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.5.4.4.4[FS] | 2.5.4.6.4[FS] |
| 2.5.4.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.5.4.6.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.5.4.5.1[FS] | 2.5.4.6.9[SS]; 2.5.4.6.5[SS]; 2.5.4.6.6[SS]; 2.5.4.6.8[SS]; 2.5.4.7.1[FS] |
| 2.5.4.6.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.5.4.5.2[FS] | 2.5.4.6.7[SS]; 2.5.4.7.2[FS] |
| 2.5.4.6.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.5.4.5.3[FS] | 2.5.4.7.3[FS] |
| 2.5.4.6.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.5.4.5.4[FS] | 2.5.4.7.4[FS] |
| 2.5.4.6.5 | Labor - UMNTC supplemental admin support | Complete | 190d | 03Jan12 28Sep12 | 03Jan12 28Sep12 | None | | None | | 2.5.4.6.1[SS] | 2.5.4.7.1[FS] |
| 2.5.4.6.6 | Labor - supplemental engineering oversight | Complete | 170d | 01Feb12 28Sep12 | 01Feb12 28Sep12 | None | | None | | 2.5.4.6.1[SS] | 2.5.4.7.1[FS] |
| 2.5.4.6.7 | Travel - supplemental | Complete | 170d | 01Feb12 28Sep12 | 01Feb12 28Sep12 | None | | None | | 2.5.4.6.2[SS] | 2.5.4.7.2[FS] |
| 2.5.4.6.8 | Labor - UMNTC supplemental admin support-2 | Complete | 127d | 02Apr12 28Sep12 | 02Apr12 28Sep12 | None | | None | | 2.5.4.6.1[SS] | 2.5.4.7.1[FS] |
| 2.5.4.6.9 | Labor - UMNTC supplemental physicist effort | Complete | 106d | 01May12 28Sep12 | 01May12 28Sep12 | None | | None | | 2.5.4.6.1[SS] | 2.5.4.7.1[FS] |
| 2.5.4.7 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.5.4.7.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.5.4.6.9[FS]; 2.5.4.6.5[FS]; 2.5.4.6.6[FS]; 2.5.3.3.3.11[FF]; 2.5.4.6.8[FS]; 2.5.4.6.1[FS] | 2.5.4.8.1[FS] |
| 2.5.4.7.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.5.4.6.7[FS]; 2.5.4.6.2[FS] | 2.5.4.8.2[FS] |
| 2.5.4.7.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.5.4.6.3[FS] | |
| 2.5.4.7.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.5.4.6.4[FS] | |
| 2.5.4.8 | FY14 | Planned | 123d | 01Oct13 31Mar14 | 01Oct13 31Mar14 | Not Earlier Than | 01Oct13 | None | | | |
| 2.5.4.8.1 | Labor | Planned | 123d | 01Oct13 31Mar14 | 01Oct13 31Mar14 | None | | None | | 2.5.3.3.15[FF]; 2.5.4.7.1[FS]; 2.5.3.3.13[FF]; 2.5.3.3.14[FF]; 2.5.3.3.3.28[FF] | |
| 2.5.4.8.2 | Travel | Planned | 123d | 01Oct13 31Mar14 | 01Oct13 31Mar14 | None | | None | | 2.5.4.7.2[FS] | |
| 2.6 | Electronics Production | In Progress | 1688d | 01Oct07 20Jun14 | 01Oct07 11Jun14 | None | | None | | | |
| 2.6.1 | APD Module Production | In Progress | 1062d | 01Apr10 20Jun14 | 16Nov09 11Jun14 | None | | None | | | |
| 2.6.1.1 | APD Housing | In Progress | 787d | 01Oct10 15Nov13 | 01Oct10 17Oct13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.1.1.1 | Manufactured Parts | Complete | 595d | 01Oct10 15Feb13 | 01Oct10 31Jan12 | None | | None | | | |
| 2.6.1.1.1.1 | Prepare purchase orders | Complete | 20d | 01Oct10 20Oct10 | 01Oct10 28Oct10 | None | | None | | 2.10.8.2[FS]; 1.6.1.6.1.5[FS] | 2.6.1.1.1.2[FS] |
| 2.6.1.1.1.2 | POs released- manufactured parts | Complete | 0 | 20Oct10 20Oct10 | 01Nov10 01Nov10 | None | | None | | 2.6.1.1.1.1[FS]; 2.10.9.9[FS] | 2.6.1.1.1.3[FS] |
| 2.6.1.1.1.3 | Manufacture parts | Complete | 140d | 20Oct10 15Feb13 | 01Nov10 23May11 | None | | None | | 2.6.1.1.1.2[FS] | 2.6.1.1.3[SS+20d] |
| 2.6.1.1.1.4 | Heat Sink Hoses | Complete | 251d | 03Jan11 29Dec11 | 03Jan11 31Jan12 | None | | None | | | |
| 2.6.1.1.1.4.1 | Procure heat sink hoses for blocks 1-6 | Complete | 20d | 03Jan11 31Jan11 | 03Jan11 31Jan11 | None | | None | | | 2.9.4.5.110[FS]; 2.6.1.1.1.4.2[FS+43d]; 2.9.4.5.1[FS] |
| 2.6.1.1.1.4.2 | Procure heat sink hoses for blocks 7-12 | Complete | 21d | 15Apr11 16May11 | 01Apr11 29Apr11 | None | | None | | 2.6.1.1.1.4.1[FS+43d] | 2.9.4.5.113[FS]; 2.9.4.5.4[FS]; 2.6.1.1.1.4.3[FS+43d] |
| 2.6.1.1.1.4.3 | Procure heat sink hoses for blocks 13-18 | Complete | 20d | 01Jun11 06Jul11 | 01Jul11 29Jul11 | None | | None | | 2.6.1.1.1.4.2[FS+43d] | 2.9.4.5.116[FS]; 2.6.1.1.1.4.4[FS+44d]; 2.9.4.5.7[FS] |
| 2.6.1.1.1.4.4 | Procure heat sink hoses for blocks 19-24 | Complete | 21d | 06Jul11 29Jul11 | 03Oct11 31Oct11 | None | | None | | 2.6.1.1.1.4.3[FS+44d] | 2.9.4.5.119[FS]; 2.9.4.5.10[FS]; 2.6.1.1.1.4.5[FS+39d] |
| 2.6.1.1.1.4.5 | Procure heat sink hoses for blocks 25-30 | Complete | 20d | 01Dec11 29Dec11 | 03Jan12 31Jan12 | None | | None | | 2.6.1.1.1.4.4[FS+39d] | 2.9.4.5.122[FS]; 2.9.4.5.13[FS] |
| 2.6.1.1.2 | TE Coolers | In Progress | 707d | 01Oct10 25Jul13 | 04Oct10 25Apr11 | None | | None | | | |
| 2.6.1.1.2.1 | Prepare purchase order | Complete | 20d | 01Oct10 20Oct10 | 04Oct10 29Oct10 | None | | None | | 1.6.1.6.1.5[FS]; 2.10.8.2[FS] | 2.6.1.1.2.2[FS] |
| 2.6.1.1.2.2 | PO released-TE coolers | Complete | 0 | 20Oct10 20Oct10 | 01Nov10 01Nov10 | None | | None | | 2.10.9.9[FS]; 2.10.8.2[FS]; 2.6.1.1.2.1[FS] | 2.6.1.1.2.3[FS] |
| 2.6.1.1.2.3 | Manufacture TE coolers | In Progress | 120d | 20Oct10 25Jul13 | 01Nov10 25Apr11 | None | | None | | 2.6.1.1.2.2[FS] | 2.6.1.1.3[FS] |
| 2.6.1.1.3 | Assemble and test APD housings | In Progress | 200d | 01Nov10 07Nov13 | 24May11 12Mar12 | None | | None | | 2.6.1.1.1.3[SS+20d]; 2.6.1.1.2.3[FS] | 2.6.1.3.46[SS+20d]; 2.6.1.1.4[SS+13%]; 2.6.1.1.9[FS]; 2.6.1.1.7[SS+67%]; 2.6.1.1.8[SS+84%]; 2.6.1.1.11[FS]; 2.6.1.1.5[SS+33%]; 2.6.1.1.6[SS+50%]; 2.6.1.1.15[SS-39d]; 2.6.1.3.1[SS-19d]; 2.6.1.1.10[FS]; 2.6.1.1.13[FF] |
| 2.6.1.1.4 | APD housings completed and tested - superblock 1 | Complete | 0 | 29Jul11 29Jul11 | 29Jun11 29Jun11 | None | | None | | 2.6.1.1.3[SS+13%] | 2.6.1.1.5[FS]; 2.6.1.3.6[FS+20d] |
| 2.6.1.1.5 | APD housings completed and tested - superblock 2 | Complete | 0 | 16Nov12 16Nov12 | 03Aug11 03Aug11 | None | | None | | 2.6.1.1.4[FS]; 2.6.1.1.3[SS+33%] | 2.6.1.3.11[FS+20d]; 2.6.1.1.6[FS] |
| 2.6.1.1.6 | APD housings completed and tested - superblock 3 | Complete | 0 | 28Feb13 28Feb13 | 09Sep11 09Sep11 | None | | None | | 2.6.1.1.5[FS]; 2.6.1.1.3[SS+50%] | 2.6.1.3.16[FS+20d]; 2.6.1.1.7[FS] |
| 2.6.1.1.7 | APD housings completed and tested - superblock 4 | Complete | 0 | 24May13 24May13 | 13Oct11 13Oct11 | None | | None | | 2.6.1.1.6[FS]; 2.6.1.1.3[SS+67%] | 2.6.1.3.21[FS+20d]; 2.6.1.1.8[FS] |
| 2.6.1.1.8 | APD housings completed and tested - superblock 5 | Planned | 0 | 24Sep13 24Sep13 | 18Nov11 18Nov11 | None | | None | | 2.6.1.1.7[FS]; 2.6.1.1.3[SS+84%] | 2.6.1.3.26[FS+20d]; 2.6.1.1.9[FS] |
| 2.6.1.1.9 | APD housings completed and tested - superblock 6 | Planned | 0 | 07Nov13 07Nov13 | 28Dec11 28Dec11 | None | | None | | 2.6.1.1.3[FS]; 2.6.1.1.8[FS] | 2.6.1.3.30[FS]; 2.6.1.1.10[FS]; 2.6.1.1.12[FS] |
| 2.6.1.1.10 | APD housings completed and tested - superblock 7 | Planned | 0 | 07Nov13 07Nov13 | 12Mar12 12Mar12 | None | | None | | 2.6.1.1.9[FS]; 2.6.1.1.3[FS] | 2.6.1.1.11[FS]; 2.6.1.3.31[FS] |
| 2.6.1.1.11 | All APD housings completed and tested - 15Kt | Planned | 0 | 15Nov13 15Nov13 | 12Mar12 12Mar12 | None | | None | | 2.6.1.1.14[FS]; 2.6.1.1.10[FS]; 2.6.1.1.3[FS]; 2.6.1.1.13[FS]; 2.6.1.1.12[FS] | |
| 2.6.1.1.12 | All APD housings completed and tested - 14Kt | Planned | 0 | 07Nov13 07Nov13 | 28Dec11 28Dec11 | None | | None | | 2.6.1.1.9[FS] | 2.6.1.1.11[FS] |
| 2.6.1.1.13 | Assemble and test heat sink assemblies | In Progress | 266d | 01Feb11 15Nov13 | 01Feb11 21Feb12 | None | | None | | 2.6.1.1.3[FF] | 2.6.1.1.14[FF]; 2.6.1.1.11[FS] |
| 2.6.1.1.14 | Epoxy and test heat sinks | In Progress | 250d | 17Jan12 15Nov13 | 01Dec11 28Nov12 | None | | None | | 2.6.1.1.13[FF] | 2.6.1.1.11[FS] |
| 2.6.1.1.15 | Final heat sink assembly - block 12 | Complete | 13d | 17Dec12 07Jan13 | 03Dec12 19Dec12 | None | | None | | 2.6.1.1.3[SS-39d] | 2.6.1.3.12[FS]; 2.6.1.1.16[FS] |
| 2.6.1.1.16 | Final heat sink assembly - block 13 | Complete | 12d | 07Jan13 05Feb13 | 20Dec12 11Jan13 | None | | None | | 2.6.1.1.15[FS] | 2.6.1.1.17[FS]; 2.6.1.3.13[FS] |
| 2.6.1.1.17 | Final heat sink assembly - block 14 | Complete | 12d | 05Feb13 22Feb13 | 14Jan13 31Jan13 | None | | None | | 2.6.1.1.16[FS] | 2.6.1.3.14[FS]; 2.6.1.1.18[FS] |
| 2.6.1.1.18 | Final heat sink assembly - block 15 | Complete | 12d | 22Feb13 15Mar13 | 01Feb13 19Feb13 | None | | None | | 2.6.1.1.17[FS] | 2.6.1.1.19[FS]; 2.6.1.3.15[FS] |
| 2.6.1.1.19 | Final heat sink assembly - block 16 | Complete | 12d | 15Mar13 01Apr13 | 20Feb13 08Mar13 | None | | None | | 2.6.1.1.18[FS] | 2.6.1.1.20[FS]; 2.6.1.3.16[FS] |
| 2.6.1.1.20 | Final heat sink assembly - block 17 | Complete | 12d | 01Apr13 22Apr13 | 11Mar13 27Mar13 | None | | None | | 2.6.1.1.19[FS] | 2.6.1.1.21[FS]; 2.6.1.3.17[FS] |
| 2.6.1.1.21 | Final heat sink assembly - block 18 | Complete | 12d | 22Apr13 07May13 | 28Mar13 15Apr13 | None | | None | | 2.6.1.1.20[FS] | 2.6.1.1.22[FS]; 2.6.1.3.18[FS] |
| 2.6.1.1.22 | Final heat sink assembly - block 19 | Complete | 12d | 15May13 24May13 | 16Apr13 02May13 | None | | None | | 2.6.1.1.21[FS] | 2.6.1.3.19[FS]; 2.6.1.1.23[FS] |
| 2.6.1.1.23 | Final heat sink assembly - block 20 | Complete | 12d | 24May13 03Jun13 | 03May13 21May13 | None | | None | | 2.6.1.1.22[FS] | 2.6.1.3.20[FS]; 2.6.1.1.24[FS] |
| 2.6.1.1.24 | Final heat sink assembly - block 21 | Complete | 12d | 03Jun13 14Jun13 | 22May13 10Jun13 | None | | None | | 2.6.1.1.23[FS] | 2.6.1.3.21[FS]; 2.6.1.1.25[FS] |
| 2.6.1.1.25 | Final heat sink assembly - block 22 | In Progress | 12d | 17Jun13 10Jul13 | 11Jun13 27Jun13 | None | | None | | 2.6.1.1.24[FS] | 2.6.1.3.22[FS]; 2.6.1.1.26[FS] |
| 2.6.1.1.26 | Final heat sink assembly - block 23 | Planned | 12d | 11Jul13 26Jul13 | 28Jun13 17Jul13 | None | | None | | 2.6.1.1.25[FS] | 2.6.1.3.23[FS]; 2.6.1.1.27[FS] |
| 2.6.1.1.27 | Final heat sink assembly - block 24 | Planned | 12d | 29Jul13 13Aug13 | 18Jul13 05Aug13 | None | | None | | 2.6.1.1.26[FS] | 2.6.1.3.24[FS]; 2.6.1.1.28[FS] |
| 2.6.1.1.28 | Final heat sink assembly - block 25 | Planned | 12d | 14Aug13 29Aug13 | 06Aug13 22Aug13 | None | | None | | 2.6.1.1.27[FS] | 2.6.1.3.25[FS]; 2.6.1.1.29[FS] |
| 2.6.1.1.29 | Final heat sink assembly - block 26 | Planned | 12d | 30Aug13 17Sep13 | 23Aug13 11Sep13 | None | | None | | 2.6.1.1.28[FS] | 2.6.1.3.26[FS]; 2.6.1.1.30[FS] |
| 2.6.1.1.30 | Final heat sink assembly - block 27 | Planned | 12d | 18Sep13 03Oct13 | 12Sep13 30Sep13 | None | | None | | 2.6.1.1.29[FS] | 2.6.1.3.27[FS]; 2.6.1.1.31[FS] |
| 2.6.1.1.31 | Final heat sink assembly - block 28 | Planned | 12d | 04Oct13 21Oct13 | 01Oct13 17Oct13 | None | | None | | 2.6.1.1.30[FS] | 2.6.1.3.28[FS] |
| 2.6.1.2 | APD Arrays | In Progress | 840d | 04Nov10 13Mar14 | 11Jun10 09Jun14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.1.2.1 | Prepare purchase order | Complete | 80d | 29Dec10 15Aug11 | 03Sep10 30Dec10 | None | | None | | 1.6.1.6.1.9[FS] | 2.6.1.2.2[FS] |
| 2.6.1.2.2 | APDs PO issued | Complete | 0 | 15Aug11 15Aug11 | 18Jul11 18Jul11 | None | | None | | 2.6.1.2.1[FS]; 2.10.8.2[FS]; 1.6.5.2.3[FS] | 2.6.1.2.3.1[FS+147d] |
| 2.6.1.2.3 | APD Array Manufacturing | In Progress | 840d | 04Nov10 13Mar14 | 04Nov10 30Apr14 | None | | None | | | |
| 2.6.1.2.3.1 | Manufacture and deliver APDs - Block 1 | Complete | 13d | 25Oct12 20Nov12 | 20Feb12 02Mar12 | None | | None | | 2.6.1.3.54[FS+30d]; 2.6.3.5.7.4[FS+65d]; 2.6.1.2.2[FS+147d] | 2.6.1.3.51.5[FS]; 2.6.1.3.1[SS+5d]; 2.6.1.2.3.2[FS] |
| 2.6.1.2.3.2 | Manufacture and deliver APDs - Block 2 | Complete | 13d | 20Nov12 10Dec12 | 03Dec12 19Dec12 | None | | None | | 2.6.1.2.3.1[FS] | 2.6.1.3.2[SS+5d]; 2.6.1.2.3.3[FS] |
| 2.6.1.2.3.3 | Manufacture and deliver APDs - Block 3 | Complete | 13d | 10Dec12 08Jan13 | 20Dec12 11Jan13 | None | | None | | 2.6.1.2.3.2[FS] | 2.6.1.3.3[SS+5d]; 2.6.1.2.3.4[FS] |
| 2.6.1.2.3.4 | Manufacture and deliver APDs - Block 4 | Complete | 12d | 08Jan13 22Jan13 | 14Jan13 31Jan13 | None | | None | | 2.6.1.2.3.3[FS] | 2.6.1.3.4[SS+5d]; 2.6.1.2.3.5[FS] |
| 2.6.1.2.3.5 | Manufacture and deliver APDs - Block 5 | Complete | 12d | 22Jan13 11Feb13 | 01Feb13 19Feb13 | None | | None | | 2.6.1.2.3.4[FS] | 2.6.1.3.5[SS+5d]; 2.6.1.2.5.1[FS]; 2.6.1.2.3.6[FS]; 2.6.1.2.3.39[FS] |
| 2.6.1.2.3.6 | Manufacture and deliver APDs - Block 6 | Complete | 12d | 11Feb13 04Mar13 | 20Feb13 08Mar13 | None | | None | | 2.6.1.2.3.5[FS] | 2.6.1.3.6[SS+5d]; 2.6.1.2.3.7[FS] |
| 2.6.1.2.3.7 | Manufacture and deliver APDs - Block 7 | Complete | 12d | 04Mar13 13Mar13 | 11Mar13 27Mar13 | None | | None | | 2.6.1.2.3.6[FS] | 2.6.1.3.51.6[FS]; 2.6.1.3.7[SS+5d]; 2.6.1.2.3.8[FS] |
| 2.6.1.2.3.8 | Manufacture and deliver APDs - Block 8 | Complete | 12d | 13Mar13 26Mar13 | 28Mar13 15Apr13 | None | | None | | 2.6.1.2.3.7[FS] | 2.6.1.3.8[SS+5d]; 2.6.1.2.3.9[FS] |
| 2.6.1.2.3.9 | Manufacture and deliver APDs - Block 9 | Complete | 12d | 26Mar13 10Apr13 | 16Apr13 02May13 | None | | None | | 2.6.1.2.3.8[FS] | 2.6.1.3.9[SS+5d]; 2.6.1.2.3.10[FS] |
| 2.6.1.2.3.10 | Manufacture and deliver APDs - Block 10 | Complete | 12d | 10Apr13 15Apr13 | 03May13 21May13 | None | | None | | 2.6.1.2.3.9[FS] | 2.6.1.3.10[SS+5d]; 2.6.1.2.5.2[FS]; 2.6.1.2.3.11[FS] |
| 2.6.1.2.3.11 | Manufacture and deliver APDs - Block 11 | Complete | 12d | 15Apr13 29Apr13 | 22May13 10Jun13 | None | | None | | 2.6.1.2.3.10[FS] | 2.6.1.3.11[SS+5d]; 2.6.1.2.3.12[FS] |
| 2.6.1.2.3.12 | Manufacture and deliver APDs - Block 12 | Complete | 12d | 29Apr13 06May13 | 11Jun13 27Jun13 | None | | None | | 2.6.1.2.3.11[FS] | 2.6.1.3.12[SS+5d]; 2.6.1.2.3.13[FS] |
| 2.6.1.2.3.13 | Manufacture and deliver APDs - Block 13 | Complete | 12d | 06May13 28May13 | 28Jun13 17Jul13 | None | | None | | 2.6.1.2.3.12[FS] | 2.6.1.3.13[SS+5d]; 2.6.1.2.3.14[FS] |
| 2.6.1.2.3.14 | Manufacture and deliver APDs - Block 14 | In Progress | 12d | 28May13 02Jul13 | 18Jul13 05Aug13 | None | | None | | 2.6.1.2.3.13[FS] | 2.6.1.3.51.7[FS]; 2.6.1.3.14[SS+5d]; 2.6.1.2.3.15[FS] |
| 2.6.1.2.3.15 | Manufacture and deliver APDs - Block 15 | Planned | 12d | 03Jul13 19Jul13 | 06Aug13 22Aug13 | None | | None | | 2.6.1.2.3.14[FS] | 2.6.1.3.15[SS+5d]; 2.6.1.2.5.3[FS]; 2.6.1.2.3.16[FS] |
| 2.6.1.2.3.16 | Manufacture and deliver APDs - Block 16 | Planned | 12d | 22Jul13 06Aug13 | 23Aug13 11Sep13 | None | | None | | 2.6.1.2.3.15[FS] | 2.6.1.3.16[SS+5d]; 2.6.1.2.3.17[FS] |
| 2.6.1.2.3.17 | Manufacture and deliver APDs - Block 17 | Planned | 12d | 07Aug13 22Aug13 | 12Sep13 30Sep13 | None | | None | | 2.6.1.2.3.16[FS] | 2.6.1.3.17[SS+5d]; 2.6.1.2.3.18[FS] |
| 2.6.1.2.3.18 | Manufacture and deliver APDs - Block 18 | Planned | 12d | 23Aug13 10Sep13 | 01Oct13 17Oct13 | None | | None | | 2.6.1.2.3.17[FS] | 2.6.1.3.18[SS+5d]; 2.6.1.2.3.19[FS] |
| 2.6.1.2.3.19 | Manufacture and deliver APDs - Block 19 | Planned | 12d | 11Sep13 26Sep13 | 18Oct13 05Nov13 | None | | None | | 2.6.1.2.3.18[FS] | 2.6.1.3.19[SS+5d]; 2.6.1.2.3.20[FS] |
| 2.6.1.2.3.20 | Manufacture and deliver APDs - Block 20 | Planned | 12d | 27Sep13 14Oct13 | 06Nov13 22Nov13 | None | | None | | 2.6.1.2.3.19[FS] | 2.6.1.3.20[SS+5d]; 2.6.1.2.3.21[FS]; 2.6.1.2.5.4[FS] |
| 2.6.1.2.3.21 | Manufacture and deliver APDs - Block 21 | Planned | 12d | 15Oct13 30Oct13 | 25Nov13 13Dec13 | None | | None | | 2.6.1.2.3.20[FS] | 2.6.1.3.51.8[FS]; 2.6.1.3.21[SS+5d]; 2.6.1.2.3.22[FS] |
| 2.6.1.2.3.22 | Manufacture and deliver APDs - Block 22 | Planned | 12d | 31Oct13 15Nov13 | 16Dec13 07Jan14 | None | | None | | 2.6.1.2.3.21[FS] | 2.6.1.3.22[SS+5d]; 2.6.1.2.3.23[FS] |
| 2.6.1.2.3.23 | Manufacture and deliver APDs - Block 23 | Planned | 12d | 18Nov13 05Dec13 | 08Jan14 27Jan14 | None | | None | | 2.6.1.2.3.22[FS] | 2.6.1.3.23[SS+5d]; 2.6.1.2.3.24[FS] |
| 2.6.1.2.3.24 | Manufacture and deliver APDs - Block 24 | Planned | 12d | 06Dec13 23Dec13 | 28Jan14 13Feb14 | None | | None | | 2.6.1.2.3.23[FS] | 2.6.1.3.24[SS+5d]; 2.6.1.2.3.25[FS] |
| 2.6.1.2.3.25 | Manufacture and deliver APDs - Block 25 | Planned | 12d | 26Dec13 14Jan14 | 14Feb14 04Mar14 | None | | None | | 2.6.1.2.3.24[FS] | 2.6.1.3.25[SS+5d]; 2.6.1.2.3.26[FS]; 2.6.1.2.5.5[FS] |
| 2.6.1.2.3.26 | Manufacture and deliver APDs - Block 26 | Planned | 12d | 15Jan14 31Jan14 | 05Mar14 21Mar14 | None | | None | | 2.6.1.2.3.25[FS] | 2.6.1.3.26[SS+5d]; 2.6.1.2.3.27[FS] |
| 2.6.1.2.3.27 | Manufacture and deliver APDs - Block 27 | Planned | 12d | 03Feb14 18Feb14 | 24Mar14 09Apr14 | None | | None | | 2.6.1.2.3.26[FS] | 2.6.1.3.27[SS+5d]; 2.6.1.2.3.28[FS] |
| 2.6.1.2.3.28 | Manufacture and deliver APDs - Block 28 | Planned | 12d | 19Feb14 06Mar14 | 10Apr14 28Apr14 | None | | None | | 2.6.1.2.3.27[FS] | 2.6.1.3.51.9[FS]; 2.6.1.3.28[SS+5d]; 2.6.1.2.5.6[FS]; 2.6.1.2.3.29[FS] |
| 2.6.1.2.3.29 | Manufacture and deliver APDs - Block 29 (OBSOLETE) | Planned | 1d | 07Mar14 07Mar14 | 29Apr14 29Apr14 | None | | None | | 2.6.1.2.3.28[FS] | 2.6.1.3.29[SS+5d]; 2.6.1.2.3.30[FS] |
| 2.6.1.2.3.30 | Manufacture and deliver APDs - Block 30 (OBSOLETE) | Planned | 1d | 10Mar14 10Mar14 | 30Apr14 30Apr14 | None | | None | | 2.6.1.2.3.29[FS] | 2.6.1.3.30[SS+5d]; 2.6.1.2.3.31[FS] |
| 2.6.1.2.3.38 | Manufacture and deliver APDs - Near Detector | Planned | 23d | 02Oct13 01Nov13 | 11Oct13 12Nov13 | None | | None | | 2.8.8.4.3[FS] | 2.6.1.3.45[FS] |
| 2.6.1.2.3.39 | Manufacture and deliver APDs - Near Detector (OBSOLETE) | Complete | 1d | 04Nov10 04Nov10 | 04Nov10 04Nov10 | None | | None | | 2.6.1.2.3.5[FS] | 2.6.1.3.46[FS] |
| 2.6.1.2.4 | Evaluate APDs used in IPND | Complete | 150d | 01Jul11 15Jul11 | 11Jun10 18Jan11 | None | | None | | 1.8.5.7.14.14[FS] | |
| 2.6.1.2.5 | APD Array Delivery Milestones | In Progress | 274d | 11Feb13 13Mar14 | 19Feb13 09Jun14 | None | | None | | | |
| 2.6.1.2.5.1 | APDs for superblock 1 delivered | Complete | 0 | 11Feb13 11Feb13 | 19Feb13 19Feb13 | None | | None | | 2.6.1.2.3.5[FS] | 2.6.1.2.5.2[FS] |
| 2.6.1.2.5.2 | APDs for superblock 2 delivered | Complete | 0 | 15Apr13 15Apr13 | 21May13 21May13 | None | | None | | 2.6.1.2.5.1[FS]; 2.6.1.2.3.10[FS] | 2.6.1.2.5.3[FS] |
| 2.6.1.2.5.3 | APDs for superblock 3 delivered | Planned | 0 | 19Jul13 19Jul13 | 22Aug13 22Aug13 | None | | None | | 2.6.1.2.3.15[FS]; 2.6.1.2.5.2[FS] | 2.10.9.14[FS]; 2.6.1.2.5.4[FS] |
| 2.6.1.2.5.4 | APDs for superblock 4 delivered | Planned | 0 | 14Oct13 14Oct13 | 22Nov13 22Nov13 | None | | None | | 2.6.1.2.5.3[FS]; 2.6.1.2.3.20[FS] | 2.6.1.2.5.5[FS] |
| 2.6.1.2.5.5 | APDs for superblock 5 delivered | Planned | 0 | 14Jan14 14Jan14 | 04Mar14 04Mar14 | None | | None | | 2.6.1.2.5.4[FS]; 2.6.1.2.3.25[FS] | 2.6.1.2.5.6[FS] |
| 2.6.1.2.5.6 | APDs for superblock 6 delivered | Planned | 0 | 06Mar14 06Mar14 | 28Apr14 28Apr14 | None | | None | | 2.6.1.2.3.28[FS]; 2.6.1.2.5.5[FS] | 2.6.1.2.5.9[FS]; 2.6.1.2.5.7[FS] |
| 2.6.1.2.5.7 | APDs for superblock 7 delivered | Planned | 0 | 13Mar14 13Mar14 | 09Jun14 09Jun14 | None | | None | | 2.6.1.2.3.33[FS]; 2.6.1.2.5.6[FS] | 2.6.1.2.5.8[FS] |
| 2.6.1.2.5.8 | All APD arrays delivered - 15 kt | Planned | 0 | 13Mar14 13Mar14 | 09Jun14 09Jun14 | None | | None | | 2.6.1.2.5.9[FS]; 2.6.1.2.5.7[FS] | |
| 2.6.1.2.5.9 | All APD arrays delivered - 14 kt | Planned | 0 | 06Mar14 06Mar14 | 28Apr14 28Apr14 | None | | None | | 2.6.1.2.5.6[FS] | 2.6.1.2.5.8[FS] |
| 2.6.1.3 | APD Module Testing | In Progress | 893d | 01Dec10 20Jun14 | 01Dec10 11Jun14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.1.3.0 | APD Test Stand | Complete | 115d | 01Dec10 16May11 | 01Dec10 31May11 | None | | None | | | |
| 2.6.1.3.0.1 | Prepare documentation | Complete | 60d | 01Dec10 30Mar11 | 01Dec10 28Feb11 | None | | None | | 1.6.1.6.1.22[FS] | 2.6.1.3.0.5[FS] |
| 2.6.1.3.0.2 | Prepare final design drawings | Complete | 60d | 01Dec10 30Mar11 | 01Dec10 28Feb11 | None | | None | | 1.6.1.6.1.22[FS] | 2.6.1.3.0.3[SS+20d] |
| 2.6.1.3.0.3 | Final assembly of test stand | Complete | 40d | 01Dec10 30Mar11 | 03Jan11 28Feb11 | None | | None | | 2.6.1.3.0.2[SS+20d] | 2.6.1.3.0.4[FS] |
| 2.6.1.3.0.4 | Commission test stand | Complete | 65d | 01Dec10 30Mar11 | 01Mar11 31May11 | None | | None | | 2.6.1.3.0.3[FS] | 2.6.1.3.0.5[SS+23d] |
| 2.6.1.3.0.5 | Install at testing site | Complete | 42d | 01Apr11 16May11 | 01Apr11 31May11 | None | | None | | 2.6.1.3.0.4[SS+23d]; 2.6.1.3.0.1[FS] | 2.6.1.3.1[FS] |
| 2.6.1.3.1 | Assemble and test APD modules-Block 1 | Complete | 13d | 30Oct12 05Apr13 | 25Oct12 12Nov12 | None | | None | | 2.6.1.3.53.4[FS]; 2.6.1.2.3.1[SS+5d]; 2.6.1.3.0.5[FS]; 1.6.1.2.8[FS]; 2.6.1.1.3[SS-19d] | 2.6.1.3.2[FS]; 2.6.1.4.1[FS] |
| 2.6.1.3.2 | Assemble and test APD modules-Block 2 | Complete | 11d | 05Apr13 30Apr13 | 19Dec12 10Jan13 | None | | None | | 2.6.1.2.3.2[SS+5d]; 2.6.1.3.1[FS] | 2.6.1.3.3[FS]; 2.6.1.4.2[FS] |
| 2.6.1.3.3 | Assemble and test APD modules-Block 3 | Complete | 11d | 30Apr13 22May13 | 11Jan13 30Jan13 | None | | None | | 2.6.1.2.3.3[SS+5d]; 2.6.1.3.2[FS] | 2.6.1.3.4[FS]; 2.6.1.4.3[FS] |
| 2.6.1.3.4 | Assemble and test APD modules-Block 4 | Complete | 11d | 22May13 10Jun13 | 31Jan13 18Feb13 | None | | None | | 2.6.1.2.3.4[SS+5d]; 2.6.1.3.3[FS] | 2.6.1.3.5[FS]; 2.6.1.4.4[FS] |
| 2.6.1.3.5 | Assemble and test APD modules-Block 5 | Complete | 10d | 10Jun13 26Jun13 | 19Feb13 07Mar13 | None | | None | | 2.6.1.2.3.5[SS+5d]; 2.6.1.3.4[FS] | 2.6.1.3.6[FS]; 2.6.1.4.5[FS] |
| 2.6.1.3.6 | Assemble and test APD modules-Block 6 | In Progress | 10d | 26Jun13 10Jul13 | 08Mar13 26Mar13 | None | | None | | 2.6.1.3.5[FS]; 2.6.1.2.3.6[SS+5d]; 2.6.1.1.4[FS+20d] | 2.6.1.3.7[FS]; 2.6.1.4.6[FS] |
| 2.6.1.3.7 | Assemble and test APD modules-Block 7 | Planned | 10d | 11Jul13 24Jul13 | 27Mar13 12Apr13 | None | | None | | 2.6.1.2.3.7[SS+5d]; 2.6.1.3.6[FS] | 2.6.1.3.8[FS]; 2.6.1.4.7[FS] |
| 2.6.1.3.8 | Assemble and test APD modules-Block 8 | Planned | 10d | 25Jul13 07Aug13 | 15Apr13 01May13 | None | | None | | 2.6.1.3.7[FS]; 2.6.1.2.3.8[SS+5d] | 2.6.1.3.9[FS]; 2.6.1.4.8[FS] |
| 2.6.1.3.9 | Assemble and test APD modules-Block 9 | Planned | 10d | 08Aug13 21Aug13 | 02May13 20May13 | None | | None | | 2.6.1.2.3.9[SS+5d]; 2.6.1.3.8[FS] | 2.6.1.3.10[FS]; 2.6.1.4.9[FS] |
| 2.6.1.3.10 | Assemble and test APD modules-Block 10 | Planned | 10d | 22Aug13 05Sep13 | 21May13 07Jun13 | None | | None | | 2.6.1.2.3.10[SS+5d]; 2.6.1.3.9[FS] | 2.6.1.3.11[FS]; 2.6.1.4.10[FS] |
| 2.6.1.3.11 | Assemble and test APD modules-Block 11 | Planned | 10d | 06Sep13 19Sep13 | 10Jun13 26Jun13 | None | | None | | 2.6.1.1.5[FS+20d]; 2.6.1.2.3.11[SS+5d]; 2.6.1.3.10[FS] | 2.6.1.3.12[FS]; 2.6.1.4.11[FS] |
| 2.6.1.3.12 | Assemble and test APD modules-Block 12 | Planned | 10d | 20Sep13 03Oct13 | 27Jun13 16Jul13 | None | | None | | 2.6.1.2.3.12[SS+5d]; 2.6.1.3.11[FS]; 2.6.1.1.15[FS] | 2.6.1.3.13[FS]; 2.6.1.4.12[FS] |
| 2.6.1.3.13 | Assemble and test APD modules-Block 13 | Planned | 10d | 04Oct13 17Oct13 | 17Jul13 02Aug13 | None | | None | | 2.6.1.2.3.13[SS+5d]; 2.6.1.3.12[FS]; 2.6.1.1.16[FS] | 2.6.1.3.14[FS]; 2.6.1.4.13[FS] |
| 2.6.1.3.14 | Assemble and test APD modules-Block 14 | Planned | 10d | 18Oct13 31Oct13 | 05Aug13 21Aug13 | None | | None | | 2.6.1.2.3.14[SS+5d]; 2.6.1.3.13[FS]; 2.6.1.1.17[FS] | 2.6.1.3.15[FS]; 2.6.1.4.14[FS] |
| 2.6.1.3.15 | Assemble and test APD modules-Block 15 | Planned | 10d | 01Nov13 14Nov13 | 22Aug13 10Sep13 | None | | None | | 2.6.1.2.3.15[SS+5d]; 2.6.1.3.14[FS]; 2.6.1.1.18[FS] | 2.6.1.3.16[FS]; 2.6.1.4.15[FS] |
| 2.6.1.3.16 | Assemble and test APD modules-Block 16 | Planned | 10d | 15Nov13 02Dec13 | 11Sep13 27Sep13 | None | | None | | 2.6.1.1.6[FS+20d]; 2.6.1.2.3.16[SS+5d]; 2.6.1.3.15[FS]; 2.6.1.1.19[FS] | 2.6.1.3.17[FS]; 2.6.1.4.16[FS] |
| 2.6.1.3.17 | Assemble and test APD modules-Block 17 | Planned | 10d | 03Dec13 16Dec13 | 30Sep13 16Oct13 | None | | None | | 2.6.1.2.3.17[SS+5d]; 2.6.1.3.16[FS]; 2.6.1.1.20[FS] | 2.6.1.3.18[FS]; 2.6.1.4.17[FS] |
| 2.6.1.3.18 | Assemble and test APD modules-Block 18 | Planned | 10d | 17Dec13 03Jan14 | 17Oct13 04Nov13 | None | | None | | 2.6.1.2.3.18[SS+5d]; 2.6.1.3.17[FS]; 2.6.1.1.21[FS] | 2.6.1.3.19[FS]; 2.6.1.4.18[FS] |
| 2.6.1.3.19 | Assemble and test APD modules-Block 19 | Planned | 10d | 06Jan14 17Jan14 | 05Nov13 21Nov13 | None | | None | | 2.6.1.2.3.19[SS+5d]; 2.6.1.3.18[FS]; 2.6.1.1.22[FS] | 2.6.1.3.20[FS]; 2.6.1.4.19[FS] |
| 2.6.1.3.20 | Assemble and test APD modules-Block 20 | Planned | 10d | 21Jan14 03Feb14 | 22Nov13 12Dec13 | None | | None | | 2.6.1.3.19[FS]; 2.6.1.2.3.20[SS+5d]; 2.6.1.1.23[FS] | 2.6.1.3.21[FS]; 2.6.1.4.20[FS] |
| 2.6.1.3.21 | Assemble and test APD modules-Block 21 | Planned | 10d | 04Feb14 17Feb14 | 13Dec13 06Jan14 | None | | None | | 2.6.1.1.7[FS+20d]; 2.6.1.2.3.21[SS+5d]; 2.6.1.3.20[FS]; 2.6.1.1.24[FS] | 2.6.1.3.22[FS]; 2.6.1.4.21[FS] |
| 2.6.1.3.22 | Assemble and test APD modules-Block 22 | Planned | 10d | 18Feb14 03Mar14 | 07Jan14 24Jan14 | None | | None | | 2.6.1.3.21[FS]; 2.6.1.2.3.22[SS+5d]; 2.6.1.1.25[FS] | 2.6.1.3.23[FS]; 2.6.1.4.22[FS] |
| 2.6.1.3.23 | Assemble and test APD modules-Block 23 | Planned | 10d | 04Mar14 17Mar14 | 27Jan14 12Feb14 | None | | None | | 2.6.1.3.22[FS]; 2.6.1.2.3.23[SS+5d]; 2.6.1.1.26[FS] | 2.6.1.3.24[FS]; 2.6.1.4.23[FS] |
| 2.6.1.3.24 | Assemble and test APD modules-Block 24 | Planned | 10d | 18Mar14 31Mar14 | 13Feb14 03Mar14 | None | | None | | 2.6.1.3.23[FS]; 2.6.1.2.3.24[SS+5d]; 2.6.1.1.27[FS] | 2.6.1.3.25[FS]; 2.6.1.4.24[FS] |
| 2.6.1.3.25 | Assemble and test APD modules-Block 25 | Planned | 10d | 01Apr14 14Apr14 | 04Mar14 20Mar14 | None | | None | | 2.6.1.3.24[FS]; 2.6.1.2.3.25[SS+5d]; 2.6.1.1.28[FS] | 2.6.1.3.26[FS]; 2.6.1.4.25[FS] |
| 2.6.1.3.26 | Assemble and test APD modules-Block 26 | Planned | 10d | 15Apr14 28Apr14 | 21Mar14 08Apr14 | None | | None | | 2.6.1.3.25[FS]; 2.6.1.1.8[FS+20d]; 2.6.1.2.3.26[SS+5d]; 2.6.1.1.29[FS] | 2.6.1.3.27[FS]; 2.6.1.3.48[FS]; 2.6.1.4.26[FS] |
| 2.6.1.3.27 | Assemble and test APD modules-Block 27 | Planned | 10d | 29Apr14 12May14 | 09Apr14 25Apr14 | None | | None | | 2.6.1.2.3.27[SS+5d]; 2.6.1.3.26[FS]; 2.6.1.1.30[FS] | 2.6.1.3.28[FS]; 2.6.1.4.27[FS] |
| 2.6.1.3.28 | Assemble and test APD modules-Block 28 | Planned | 10d | 13May14 27May14 | 28Apr14 14May14 | None | | None | | 2.6.1.3.27[FS]; 2.6.1.2.3.28[SS+5d]; 2.6.1.1.31[FS] | 2.6.1.3.29[FS]; 2.6.1.4.28[FS] |
| 2.6.1.3.29 | Assemble and test APD modules-Block 29 (OBSOLETE) | Planned | 1d | 28May14 28May14 | 15May14 15May14 | None | | None | | 2.6.1.2.3.29[SS+5d]; 2.6.1.3.28[FS] | 2.6.1.3.30[FS]; 2.6.1.4.29[FS] |
| 2.6.1.3.30 | Assemble and test APD modules-Block 30 (OBSOLETE) | Planned | 1d | 29May14 29May14 | 16May14 16May14 | None | | None | | 2.6.1.1.9[FS]; 2.6.1.2.3.30[SS+5d]; 2.6.1.3.29[FS] | 2.6.1.3.31[FS]; 2.6.1.4.30[FS] |
| 2.6.1.3.45 | Assemble and test APD modules - Near Detector | Planned | 23d | 04Nov13 06Dec13 | 13Nov13 17Dec13 | None | | None | | 2.6.1.2.3.38[FS] | 2.6.1.4.38[FS] |
| 2.6.1.3.46 | Assemble and test APD modules Near Detector (OBSOLETE) | Complete | 1d | 01Mar11 01Mar11 | 22Jun11 22Jun11 | None | | None | | 2.6.1.1.3[SS+20d]; 2.6.1.2.3.39[FS] | |
| 2.6.1.3.47 | APD modules assembled and tested - 15 kt (OBSOLETE) | Planned | 0 | 03Jun14 03Jun14 | 21May14 21May14 | None | | None | | 2.6.1.3.48[FS]; 2.6.1.3.33[FS] | |
| 2.6.1.3.48 | APD modules assembled and tested - 14 kt | Planned | 0 | 28Apr14 28Apr14 | 08Apr14 08Apr14 | None | | None | | 2.6.1.3.26[FS] | 2.6.1.3.47[FS] |
| 2.6.1.3.50 | APD Vacuum Tester | Complete | 248d | 01Nov11 25Oct12 | 01Nov11 18Jan12 | None | | None | | | |
| 2.6.1.3.50.1 | Design vacuum tester | Complete | 20d | 01Nov11 30Nov11 | 01Nov11 30Nov11 | None | | None | | | 2.6.1.3.50.2[SS+10d]; 2.6.1.3.50.5[SS+10d] |
| 2.6.1.3.50.2 | Procure vacuum parts | Complete | 20d | 15Nov11 21Feb12 | 15Nov11 14Dec11 | None | | None | | 2.6.1.3.50.1[SS+10d] | 2.6.1.3.50.3[SS+10d] |
| 2.6.1.3.50.3 | Assemble vacuum tester | Complete | 20d | 01Mar12 25Oct12 | 01Dec11 03Jan12 | None | | None | | 2.6.1.3.50.2[SS+10d]; 2.6.1.3.50.5[FF] | 2.6.1.3.50.4[SS+10d] |
| 2.6.1.3.50.4 | Commission vacuum tester | Complete | 20d | 02Apr12 25Oct12 | 15Dec11 18Jan12 | None | | None | | 2.6.1.3.50.3[SS+10d] | 2.6.1.3.54[FS] |
| 2.6.1.3.50.5 | Procure vacuum parts (supplemental) | Complete | 10d | 02Apr12 25Oct12 | 01Dec11 14Dec11 | None | | None | | 2.6.1.3.50.1[SS+10d] | 2.6.1.3.50.3[FF] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.1.3.51 | APD Temperature Reliability Tester | In Progress | 651d | 15Nov11 20Jun14 | 15Nov11 11Jun14 | None | | None | | | |
| 2.6.1.3.51.1 | Design temperature reliability tester | In Progress | 20d | 15Nov11 15Jul13 | 15Nov11 14Dec11 | None | | None | | | 2.6.1.3.51.2[SS+10d] |
| 2.6.1.3.51.2 | Procure temperature reliability tester parts | In Progress | 20d | 15Jun12 25Jul13 | 01Dec11 03Jan12 | None | | None | | 2.6.1.3.51.1[SS+10d] | 2.6.1.3.51.3[SS+10d] |
| 2.6.1.3.51.3 | Assemble temperature reliability tester | Planned | 20d | 01Jul13 29Jul13 | 15Dec11 18Jan12 | None | | None | | 2.6.1.3.51.2[SS+10d] | 2.6.1.3.51.4[SS+10d] |
| 2.6.1.3.51.4 | Commission temperature reliability tester | Planned | 20d | 16Jul13 12Aug13 | 04Jan12 01Feb12 | None | | None | | 2.6.1.3.51.3[SS+10d] | 2.6.1.3.51.5[SS+10d] |
| 2.6.1.3.51.5 | Operate temperature reliability tester - Batch 1 | Planned | 120d | 30Jul13 23Jan14 | 02Nov12 29Apr13 | None | | None | | 2.6.1.2.3.1[FS]; 2.6.1.3.51.4[SS+10d] | 2.6.1.3.51.6[SS+40d] |
| 2.6.1.3.51.6 | Operate temperature reliability tester - Batch 2 | Planned | 120d | 25Sep13 20Mar14 | 28Mar13 16Sep13 | None | | None | | 2.6.1.2.3.7[FS]; 2.6.1.3.51.5[SS+40d] | 2.6.1.3.51.7[SS+40d] |
| 2.6.1.3.51.7 | Operate temperature reliability tester - Batch 3 | Planned | 120d | 20Nov13 15May14 | 06Aug13 30Jan14 | None | | None | | 2.6.1.2.3.14[FS]; 2.6.1.3.51.6[SS+40d] | 2.6.1.3.51.8[SS+40d] |
| 2.6.1.3.51.8 | Operate temperature reliability tester - Batch 4 | Planned | 105d | 24Jan14 20Jun14 | 16Dec13 16May14 | None | | None | | 2.6.1.2.3.21[FS]; 2.6.1.3.51.7[SS+40d] | 2.6.1.3.51.9[SS+40d] |
| 2.6.1.3.51.9 | Operate temperature reliability tester - Batch 5 | Planned | 65d | 21Mar14 20Jun14 | 29Apr14 11Jun14 | None | | None | | 2.6.1.2.3.28[FS]; 2.6.1.3.51.8[SS+40d] | |
| 2.6.1.3.52 | Housing Reliability Tester | Planned | 170d | 01Jul13 06Mar14 | 01Dec11 03Aug12 | None | | None | | | |
| 2.6.1.3.52.1 | Design housing reliability tester | Planned | 20d | 01Jul13 29Jul13 | 01Dec11 03Jan12 | None | | None | | | 2.6.1.3.52.2[SS+10d] |
| 2.6.1.3.52.2 | Procure housing reliability tester parts | Planned | 40d | 16Jul13 10Sep13 | 15Dec11 15Feb12 | None | | None | | 2.6.1.3.52.1[SS+10d] | 2.6.1.3.52.3[SS+20d] |
| 2.6.1.3.52.3 | Assemble housing reliability tester | Planned | 40d | 13Aug13 08Oct13 | 19Jan12 14Mar12 | None | | None | | 2.6.1.3.52.2[SS+20d] | 2.6.1.3.52.4[SS+10d] |
| 2.6.1.3.52.4 | Commission housing reliability tester | Planned | 20d | 27Aug13 24Sep13 | 02Feb12 29Feb12 | None | | None | | 2.6.1.3.52.3[SS+10d] | 2.6.1.3.52.5[SS+10d] |
| 2.6.1.3.52.5 | Operate housing reliability tester | Planned | 120d | 11Sep13 06Mar14 | 16Feb12 03Aug12 | None | | None | | 2.6.1.3.52.4[SS+10d] | |
| 2.6.1.3.53 | Heat Sink Vacuum Tester | Complete | 59d | 01Nov11 31Jan12 | 01Nov11 01Feb12 | None | | None | | | |
| 2.6.1.3.53.1 | Design heat sink vacuum tester | Complete | 20d | 01Nov11 30Nov11 | 01Nov11 30Nov11 | None | | None | | | 2.6.1.3.53.2[SS+10d] |
| 2.6.1.3.53.2 | Procure heat sink vacuum tester parts | Complete | 20d | 15Nov11 01Dec11 | 15Nov11 14Dec11 | None | | None | | 2.6.1.3.53.1[SS+10d] | 2.6.1.3.53.3[SS+20d] |
| 2.6.1.3.53.3 | Assemble heat sink vacuum tester | Complete | 20d | 01Dec11 29Dec11 | 15Dec11 18Jan12 | None | | None | | 2.6.1.3.53.2[SS+20d] | 2.6.1.3.53.4[SS+10d] |
| 2.6.1.3.53.4 | Commission heat sink vacuum tester | Complete | 20d | 06Jan12 31Jan12 | 04Jan12 01Feb12 | None | | None | | 2.6.1.3.53.3[SS+10d] | 2.6.1.3.54[FS]; 2.6.1.3.1[FS] |
| 2.6.1.3.54 | APD readiness review | Complete | 5d | 04Sep12 04Sep12 | 24May12 31May12 | None | | None | | 2.6.1.3.53.4[FS]; 2.6.1.3.50.4[FS]; 2.6.1.5.13[FS+20d] | 2.9.4.6.50.1[FS]; 2.6.1.2.3.1[FS+30d] |
| 2.6.1.4 | APD Module Shipping | In Progress | 915d | 14Oct10 06Jun14 | 21Sep10 22May14 | None | | None | | | |
| 2.6.1.4.1 | Vacuum test and ship APD modules-Block 1 | Complete | 5d | 17Dec12 05Apr13 | 30Nov12 06Dec12 | None | | None | | 2.9.4.4.2[FS]; 2.6.1.3.1[FS] | 2.6.1.4.2[SS]; 2.9.4.6.50.1[FS] |
| 2.6.1.4.2 | Vacuum test and ship APD modules-Block 2 | Complete | 5d | 05Apr13 08May13 | 11Jan13 17Jan13 | None | | None | | 2.6.1.4.1[SS]; 2.9.4.4.2[FS]; 2.6.1.3.2[FS] | 2.6.1.4.3[FS]; 2.9.4.6.35[FF+5d] |
| 2.6.1.4.3 | Vacuum test and ship APD modules-Block 3 | Complete | 5d | 08May13 22May13 | 06Feb13 12Feb13 | None | | None | | 2.6.1.4.2[FS]; 2.9.4.4.4[FS]; 2.6.1.3.3[FS] | 2.6.1.4.4[SS]; 2.9.4.6.50.2[FS] |
| 2.6.1.4.4 | Vacuum test and ship APD modules-Block 4 | Complete | 5d | 22May13 27Jun13 | 19Feb13 25Feb13 | None | | None | | 2.6.1.4.3[SS]; 2.9.4.4.4[FS]; 2.6.1.3.4[FS] | 2.6.1.4.5[FS]; 2.9.4.6.36[FF+5d] |
| 2.6.1.4.5 | Vacuum test and ship APD modules-Block 5 | In Progress | 5d | 27Jun13 05Jul13 | 08Mar13 14Mar13 | None | | None | | 2.6.1.4.4[FS]; 2.9.4.4.6[FS]; 2.6.1.3.5[FS] | 2.6.1.4.6[SS]; 2.9.4.6.50.3[FS] |
| 2.6.1.4.6 | Vacuum test and ship APD modules-Block 6 | Planned | 5d | 11Jul13 17Jul13 | 27Mar13 02Apr13 | None | | None | | 2.6.1.4.5[SS]; 2.9.4.4.6[FS]; 2.6.1.3.6[FS] | 2.6.1.4.7[FS]; 2.9.4.6.37[FF+5d] |
| 2.6.1.4.7 | Vacuum test and ship APD modules-Block 7 | Planned | 5d | 25Jul13 31Jul13 | 15Apr13 19Apr13 | None | | None | | 2.6.1.4.6[FS]; 2.9.4.4.9[FS]; 2.6.1.3.7[FS] | 2.6.1.4.8[SS]; 2.9.4.6.50.4[FS] |
| 2.6.1.4.8 | Vacuum test and ship APD modules-Block 8 | Planned | 5d | 08Aug13 14Aug13 | 02May13 08May13 | None | | None | | 2.6.1.4.7[SS]; 2.9.4.4.9[FS]; 2.6.1.3.8[FS] | 2.6.1.4.9[FS]; 2.9.4.6.38[FF+5d] |
| 2.6.1.4.9 | Vacuum test and ship APD modules-Block 9 | Planned | 5d | 22Aug13 28Aug13 | 21May13 28May13 | None | | None | | 2.6.1.4.8[FS]; 2.9.4.4.11[FS]; 2.6.1.3.9[FS] | 2.9.4.6.50.5[FS]; 2.6.1.4.10[SS] |
| 2.6.1.4.10 | Vacuum test and ship APD modules-Block 10 | Planned | 5d | 06Sep13 12Sep13 | 10Jun13 14Jun13 | None | | None | | 2.6.1.4.9[SS]; 2.9.4.4.11[FS]; 2.6.1.3.10[FS] | 2.6.1.4.11[FS]; 2.9.4.6.39[FF+5d] |
| 2.6.1.4.11 | Vacuum test and ship APD modules-Block 11 | Planned | 5d | 20Sep13 26Sep13 | 27Jun13 03Jul13 | None | | None | | 2.6.1.4.10[FS]; 2.9.4.4.14[FS]; 2.6.1.3.11[FS] | 2.9.4.6.50.6[FS]; 2.6.1.4.12[SS] |
| 2.6.1.4.12 | Vacuum test and ship APD modules-Block 12 | Planned | 5d | 04Oct13 10Oct13 | 17Jul13 23Jul13 | None | | None | | 2.6.1.4.11[SS]; 2.9.4.4.14[FS]; 2.6.1.3.12[FS] | 2.6.1.4.13[FS]; 2.9.4.6.40[FF+5d] |
| 2.6.1.4.13 | Vacuum test and ship APD modules-Block 13 | Planned | 5d | 18Oct13 24Oct13 | 05Aug13 09Aug13 | None | | None | | 2.6.1.4.12[FS]; 2.9.4.4.16[FS]; 2.6.1.3.13[FS] | 2.9.4.6.50.7[FS]; 2.6.1.4.14[SS] |
| 2.6.1.4.14 | Vacuum test and ship APD modules-Block 14 | Planned | 5d | 01Nov13 07Nov13 | 22Aug13 28Aug13 | None | | None | | 2.6.1.4.13[SS]; 2.9.4.4.16[FS]; 2.6.1.3.14[FS] | 2.6.1.4.15[FS]; 2.9.4.6.41[FF+5d] |
| 2.6.1.4.15 | Vacuum test and ship APD modules-Block 15 | Planned | 5d | 15Nov13 21Nov13 | 11Sep13 17Sep13 | None | | None | | 2.6.1.4.14[FS]; 2.9.4.4.18[FS]; 2.6.1.3.15[FS] | 2.6.1.4.16[SS]; 2.9.4.6.50.8[FS] |
| 2.6.1.4.16 | Vacuum test and ship APD modules-Block 16 | Planned | 5d | 03Dec13 09Dec13 | 30Sep13 04Oct13 | None | | None | | 2.6.1.4.15[SS]; 2.9.4.4.18[FS]; 2.6.1.3.16[FS] | 2.6.1.4.17[FS]; 2.9.4.6.42[FF+5d] |
| 2.6.1.4.17 | Vacuum test and ship APD modules-Block 17 | Planned | 5d | 17Dec13 23Dec13 | 17Oct13 23Oct13 | None | | None | | 2.6.1.4.16[FS]; 2.9.4.4.21[FS]; 2.6.1.3.17[FS] | 2.6.1.4.18[SS]; 2.9.4.6.50.9[FS] |
| 2.6.1.4.18 | Vacuum test and ship APD modules-Block 18 | Planned | 5d | 06Jan14 10Jan14 | 05Nov13 11Nov13 | None | | None | | 2.6.1.4.17[SS]; 2.9.4.4.21[FS]; 2.6.1.3.18[FS] | 2.6.1.4.19[FS]; 2.9.4.6.43[FF+5d] |
| 2.6.1.4.19 | Vacuum test and ship APD modules-Block 19 | Planned | 5d | 21Jan14 27Jan14 | 22Nov13 02Dec13 | None | | None | | 2.6.1.4.18[FS]; 2.9.4.4.23[FS]; 2.6.1.3.19[FS] | 2.9.4.6.50.10[FS]; 2.6.1.4.20[SS] |
| 2.6.1.4.20 | Vacuum test and ship APD modules-Block 20 | Planned | 5d | 04Feb14 10Feb14 | 13Dec13 19Dec13 | None | | None | | 2.9.4.4.23[FS]; 2.6.1.4.19[SS]; 2.6.1.3.20[FS] | 2.6.1.4.21[FS]; 2.9.4.6.44[FF+5d] |
| 2.6.1.4.21 | Vacuum test and ship APD modules-Block 21 | Planned | 5d | 18Feb14 24Feb14 | 07Jan14 13Jan14 | None | | None | | 2.6.1.4.20[FS]; 2.9.4.4.26[FS]; 2.6.1.3.21[FS] | 2.6.1.4.22[SS]; 2.9.4.6.50.11[FS] |
| 2.6.1.4.22 | Vacuum test and ship APD modules-Block 22 | Planned | 5d | 04Mar14 10Mar14 | 27Jan14 31Jan14 | None | | None | | 2.6.1.4.21[SS]; 2.9.4.4.26[FS]; 2.6.1.3.22[FS] | 2.6.1.4.23[FS]; 2.9.4.6.45[FF+5d] |
| 2.6.1.4.23 | Vacuum test and ship APD modules-Block 23 | Planned | 5d | 18Mar14 24Mar14 | 13Feb14 19Feb14 | None | | None | | 2.6.1.4.22[FS]; 2.9.4.4.28[FS]; 2.6.1.3.23[FS] | 2.6.1.4.24[SS]; 2.9.4.6.50.12[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.1.4.24 | Vacuum test and ship APD modules-Block 24 | Planned | 5d | 01Apr14 07Apr14 | 04Mar14 10Mar14 | None | | None | | 2.6.1.4.23[SS]; 2.9.4.4.28[FS]; 2.6.1.3.24[FS] | 2.6.1.4.25[FS]; 2.9.4.6.46[FF+5d] |
| 2.6.1.4.25 | Vacuum test and ship APD modules-Block 25 | Planned | 5d | 15Apr14 21Apr14 | 21Mar14 27Mar14 | None | | None | | 2.6.1.4.24[FS]; 2.9.4.4.30[FS]; 2.6.1.3.25[FS] | 2.6.1.4.26[SS]; 2.9.4.6.50.13[FS] |
| 2.6.1.4.26 | Vacuum test and ship APD modules-Block 26 | Planned | 5d | 29Apr14 05May14 | 09Apr14 15Apr14 | None | | None | | 2.6.1.4.25[SS]; 2.9.4.4.30[FS]; 2.6.1.3.26[FS] | 2.6.1.4.27[FS]; 2.6.1.4.55[FS]; 2.9.4.6.47[FF+5d] |
| 2.6.1.4.27 | Vacuum test and ship APD modules-Block 27 | Planned | 5d | 13May14 19May14 | 28Apr14 02May14 | None | | None | | 2.6.1.4.26[FS]; 2.9.4.4.33[FS]; 2.6.1.3.27[FS] | 2.6.1.4.28[SS]; 2.9.4.6.50.14[FS] |
| 2.6.1.4.28 | Vacuum test and ship APD modules-Block 28 | Planned | 5d | 28May14 03Jun14 | 15May14 21May14 | None | | None | | 2.6.1.4.27[SS]; 2.9.4.4.33[FS]; 2.6.1.3.28[FS] | 2.6.1.4.29[FS]; 2.9.4.6.48[FF+5d] |
| 2.6.1.4.29 | Vacuum test and ship APD modules-Block 29 (OBSOLETE) | Planned | 1d | 04Jun14 04Jun14 | 22May14 22May14 | None | | None | | 2.6.1.4.28[FS]; 2.9.4.4.35[FS]; 2.6.1.3.29[FS] | 2.6.1.4.30[SS]; 2.9.4.6.50.15[FS] |
| 2.6.1.4.30 | Vacuum test and ship APD modules-Block 30 (OBSOLETE) | Planned | 1d | 04Jun14 04Jun14 | 22May14 22May14 | None | | None | | 2.6.1.4.29[SS]; 2.9.4.4.35[FS]; 2.6.1.3.30[FS] | 2.6.1.4.31[FS] |
| 2.6.1.4.38 | Vacuum test and ship APD modules - Near Detector | Planned | 5d | 09Dec13 13Dec13 | 18Dec13 26Dec13 | None | | None | | 2.6.1.3.45[FS] | |
| 2.6.1.4.39 | Ship APD modules to FNAL-Near Detector | Complete | 5d | 14Oct10 20Oct10 | 21Sep10 27Sep10 | None | | None | | 2.6.1.5.6[FS] | 2.8.4.4.1[FS] |
| 2.6.1.4.47 | All Far Detector APD modules shipped - 15 kt | Planned | 0 | 06Jun14 06Jun14 | 13Jan14 13Jan14 | None | | None | | 2.6.1.4.55[FS]; 2.6.1.4.33[FS] | |
| 2.6.1.4.55 | All Far Detector APD modules shipped - 14 kt | Planned | 0 | 05May14 05May14 | 15Apr14 15Apr14 | None | | None | | 2.6.1.4.26[FS] | 2.6.1.4.47[FS] |
| 2.6.1.5 | APD Modules - Near Detector | Complete | 701d | 01Apr10 15Jan13 | 16Nov09 25Apr12 | None | | None | | | |
| 2.6.1.5.1 | Manufacture and deliver APD Arrays - Near Detector (b4 and b5) | Complete | 50d | 01Sep10 20Oct10 | 13Sep10 19Nov10 | None | | None | | 2.10.9.5[FS]; 1.6.1.6.1.2[FS] | 2.6.1.5.2[SS+14d]; 1.6.1.6.1.17[FF]; 2.6.1.5.9[FS]; 1.6.1.6.1.18[FS]; 1.6.1.6.1.16[SS+14d] |
| 2.6.1.5.2 | Test APD arrays - Near Detector (b4 and b5) | Complete | 40d | 15Sep10 20Oct10 | 01Oct10 29Nov10 | None | | None | | 2.6.1.5.1[SS+14d]; 1.6.1.6.1.16[FS]; 1.6.1.6.1.22[FS] | 2.6.1.5.17.1[FS]; 2.6.1.5.6[FS]; 2.6.1.5.8[FS]; 2.6.1.5.7[FS] |
| 2.6.1.5.3 | Procure additional heat sinks/housings - Near Detector (b4and b5) | Complete | 40d | 01Apr10 22Apr10 | 16Nov09 19Jan10 | None | | None | | 1.6.1.6.1.4[FS]; 2.10.8.2[FS] | 2.6.1.5.4[FS] |
| 2.6.1.5.4 | Assemble additional heat sinks/housings - Near Detector (b4 and b5) | Complete | 10d | 02Aug10 13Aug10 | 02Aug10 13Aug10 | None | | None | | 1.6.1.6.1.5[FS]; 2.6.1.5.3[FS] | 2.6.1.5.5[SS]; 2.6.1.5.16[FS] |
| 2.6.1.5.5 | Test additional heat sinks/housings - Near Detector (b4 and b5) | Complete | 10d | 02Aug10 13Aug10 | 02Aug10 13Aug10 | None | | None | | 2.6.1.5.4[SS]; 1.6.1.6.1.6[FS] | 2.6.1.5.6[FS] |
| 2.6.1.5.6 | All APD Modules Complete - Near Detector | Complete | 0 | 20Oct10 20Oct10 | 30Nov10 30Nov10 | None | | None | | 2.6.1.5.5[FS]; 2.6.1.5.2[FS]; 1.6.1.6.1.24[FS] | 2.6.1.4.39[FS] |
| 2.6.1.5.7 | NDOS APD installation - additional | Complete | 21d | 01Apr11 29Apr11 | 01Apr11 29Apr11 | None | | None | | 2.6.1.5.2[FS] | 2.9.4.5.1[FS]; 2.9.4.5.110[FS] |
| 2.6.1.5.8 | NDOS APD recovery | Complete | 86d | 01Jun11 30Nov11 | 01Jun11 30Sep11 | None | | None | | 2.6.1.5.2[FS] | 2.9.4.5.1[FS]; 2.6.1.5.12[SS]; 2.9.4.5.110[FS] |
| 2.6.1.5.9 | Replacement APDs PO Issued | Complete | 0 | 29Sep11 29Sep11 | 03Oct11 03Oct11 | None | | None | | 2.6.1.5.1[FS] | 2.6.1.5.11[FS+73d]; 2.6.1.5.10[FS+25d] |
| 2.6.1.5.10 | Receive replacement APD Arrays for NDOS - silicone samples | Complete | 1d | 05Nov11 05Nov11 | 01Nov11 01Nov11 | None | | None | | 2.6.1.5.9[FS+25d] | 2.6.1.5.11[FS] |
| 2.6.1.5.11 | Receive replacement APD Arrays for NDOS - silicone production | Complete | 10d | 01Feb12 04Apr12 | 01Mar12 14Mar12 | None | | None | | 2.6.1.5.9[FS+73d]; 2.6.1.5.10[FS] | 2.6.1.5.13[FS] |
| 2.6.1.5.12 | Install early recovered NDOS arrays | Complete | 9d | 04Oct11 07Oct11 | 04Oct11 14Oct11 | None | | None | | 2.6.1.5.8[SS] | 2.8.4.4.2[FS] |
| 2.6.1.5.13 | Install NDOS silicone-coated arrays | Complete | 30d | 01May12 21Jun12 | 15Mar12 25Apr12 | None | | None | | 2.6.1.5.11[FS] | 2.6.1.5.14[SS]; 2.6.1.3.54[FS+20d] |
| 2.6.1.5.14 | Test NDOS silicone-coated arrays | Complete | 30d | 01Feb12 16Apr12 | 15Mar12 25Apr12 | None | | None | | 2.6.1.5.13[SS] | 2.8.4.4.2[FS]; 2.9.4.6.35[FS] |
| 2.6.1.5.15 | Coat 10 APD arrays with parylene | Complete | 9d | 20Sep11 29Sep11 | 15Sep11 27Sep11 | None | | None | | | 2.8.4.4.2[FS] |
| 2.6.1.5.16 | Produce heat sinks for NDOS reinstallation - 500 units | Complete | 56d | 05Nov11 27Mar12 | 20Oct11 13Jan12 | None | | None | | 2.6.1.5.4[FS] | 2.8.4.4.2[FS] |
| 2.6.1.5.17 | Parylene-Coated Arrays | Complete | 290d | 15Nov11 15Jan13 | 15Nov11 18Apr12 | None | | None | | | |
| 2.6.1.5.17.1 | Prepare arrays for coating | Complete | 80d | 15Nov11 15Oct12 | 15Nov11 14Mar12 | None | | None | | 2.6.1.5.2[FS] | 2.6.1.5.17.5[SS+10d]; 2.6.1.5.17.2[SS+5d] |
| 2.6.1.5.17.2 | Coat arrays | Complete | 80d | 01Dec11 22Oct12 | 22Nov11 21Mar12 | None | | None | | 2.6.1.5.17.1[SS+5d] | 2.6.1.5.17.3[SS+10d] |
| 2.6.1.5.17.3 | Retest arrays after coating | Complete | 80d | 01Dec11 22Oct12 | 08Dec11 04Apr12 | None | | None | | 2.6.1.5.17.2[SS+10d]; 2.6.1.5.17.5[SS+10d] | 2.6.1.5.17.4[SS+10d] |
| 2.6.1.5.17.4 | Reinstall coated arrays | Complete | 80d | 01Dec11 15Jan13 | 22Dec11 18Apr12 | None | | None | | 2.6.1.5.17.3[SS+10d] | 2.9.4.6.35[FS] |
| 2.6.1.5.17.5 | Coat arrays (supplemental) | Complete | 75d | 01Dec11 22Oct12 | 01Dec11 21Mar12 | None | | None | | 2.6.1.5.17.1[SS+10d] | 2.6.1.5.17.3[SS+10d] |
| 2.6.2 | Readout - FEB | In Progress | 1153d | 15May09 12Feb14 | 05Feb10 21Nov13 | None | | None | | | |
| 2.6.2.1 | Procurements | In Progress | 1038d | 15May09 02Jul13 | 05Feb10 23May12 | None | | None | | | |
| 2.6.2.1.1 | Far Detector ASIC Production | Complete | 221d | 01Mar11 17Jan12 | 01Mar11 25Jul11 | None | | None | | | |
| 2.6.2.1.1.1 | Engineering run | Complete | 80d | 15Apr11 17Jan12 | 01Apr11 25Jul11 | None | | None | | 1.7.6[SS+63d]; 1.6.2.4.12[FS] | 2.6.2.2.1[FS] |
| 2.6.2.1.1.3 | Test/database (Obsolete) | Complete | 8d | 01Mar11 10Mar11 | 01Mar11 10Mar11 | None | | None | | | |
| 2.6.2.1.1.3.1 | Chip Tester Construction (Obsolete) | Complete | 5d | 01Mar11 07Mar11 | 01Mar11 07Mar11 | None | | None | | | |
| 2.6.2.1.1.3.1.1 | Interface Board Design (Obsolete) | Complete | 3d | 01Mar11 03Mar11 | 01Mar11 03Mar11 | None | | None | | | |
| 2.6.2.1.1.3.1.1.1 | PCB design (Obsolete) | Complete | 1d | 01Mar11 01Mar11 | 01Mar11 01Mar11 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+40d] | 2.6.2.1.1.3.1.1.2[FF] |
| 2.6.2.1.1.3.1.1.2 | PCB layout (Obsolete) | Complete | 1d | 01Mar11 01Mar11 | 01Mar11 01Mar11 | None | | None | | 2.6.2.1.1.3.1.1.1[FF] | 2.6.2.1.1.3.1.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.2.1.1.3.1.1.3 | Parts procurement (Obsolete) | Complete | 1d | 02Mar11 02Mar11 | 02Mar11 02Mar11 | None | | None | | 2.6.2.1.1.3.1.1.2[FS] | 2.6.2.1.1.3.1.1.4[FS] |
| 2.6.2.1.1.3.1.1.4 | PCB test/debug (Obsolete) | Complete | 1d | 03Mar11 03Mar11 | 03Mar11 03Mar11 | None | | None | | 2.6.2.1.1.3.1.1.3[FS] | 2.6.2.1.1.3.1.2.1[FS] |
| 2.6.2.1.1.3.1.2 | Robotic Interface (Obsolete) | Complete | 2d | 04Mar11 07Mar11 | 04Mar11 07Mar11 | None | | None | | | |
| 2.6.2.1.1.3.1.2.1 | Program robot (Obsolete) | Complete | 1d | 04Mar11 04Mar11 | 04Mar11 04Mar11 | None | | None | | 2.6.2.1.1.3.1.1.4[FS] | 2.6.2.1.1.3.1.2.2[FF] |
| 2.6.2.1.1.3.1.2.2 | Setup/Fixture robot (Obsolete) | Complete | 1d | 04Mar11 04Mar11 | 04Mar11 04Mar11 | None | | None | | 2.6.2.1.1.3.1.2.1[FF] | 2.6.2.1.1.3.1.2.3[FS] |
| 2.6.2.1.1.3.1.2.3 | Develop test program (Obsolete) | Complete | 1d | 07Mar11 07Mar11 | 07Mar11 07Mar11 | None | | None | | 2.6.2.1.1.3.1.2.2[FS] | 2.6.2.1.1.3.2.1[FS] |
| 2.6.2.1.1.3.2 | Production Chip Testing (Obsolete) | Complete | 2d | 08Mar11 09Mar11 | 08Mar11 09Mar11 | None | | None | | | |
| 2.6.2.1.1.3.2.1 | Preproduction testing/analysis development (Obsolete) | Complete | 1d | 08Mar11 08Mar11 | 08Mar11 08Mar11 | None | | None | | 2.6.2.1.1.3.1.2.3[FS] | 2.6.2.1.1.3.4[FS]; 2.6.2.1.1.3.2.2[FS]; 2.6.2.1.1.3.2.3[FS] |
| 2.6.2.1.1.3.2.2 | Production testing and analysis (Obsolete) | Complete | 1d | 09Mar11 09Mar11 | 09Mar11 09Mar11 | None | | None | | 2.6.2.1.1.3.2.1[FS] | 2.6.2.1.1.3.3[FS]; 2.6.2.1.1.3.4[SS] |
| 2.6.2.1.1.3.2.3 | Robot operation (Obsolete) | Complete | 1d | 09Mar11 09Mar11 | 09Mar11 09Mar11 | None | | None | | 2.6.2.1.1.3.2.1[FS] | 2.6.2.1.1.3.3[FS] |
| 2.6.2.1.1.3.3 | Documentation/final reports (Obsolete) | Complete | 1d | 10Mar11 10Mar11 | 10Mar11 10Mar11 | None | | None | | 2.6.2.1.1.3.2.2[FS]; 2.6.2.1.1.3.2.3[FS] | |
| 2.6.2.1.1.3.4 | Oversight (Obsolete) | Complete | 1d | 09Mar11 09Mar11 | 09Mar11 09Mar11 | None | | None | | 2.6.2.1.1.3.2.1[FS]; 2.6.2.1.1.3.2.2[SS] | |
| 2.6.2.1.3 | ADCs | Complete | 80d | 15May09 15Mar11 | 05Feb10 27May10 | None | | None | | 2.10.9.5[FS] | 2.6.2.2.1[FS] |
| 2.6.2.1.4 | Commercial off-the-shelf items (COTs) | Complete | 80d | 01Jun11 30Nov11 | 01Jun11 22Sep11 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+105d] | 2.6.2.2.1[FS]; 2.6.2.3.6[FS] |
| 2.6.2.1.5 | PC boards | Complete | 42d | 20Sep11 15Nov11 | 17Oct11 15Dec11 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+105d] | 2.6.2.2.1[FS] |
| 2.6.2.1.6 | Procure electronics box | Complete | 107d | 01Jun12 05Apr13 | 01Feb12 23May12 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+40d] | 2.6.2.2.2[FF]; 2.6.2.2.2[SS+30d] |
| 2.6.2.1.7 | TEC Controller Modules | In Progress | 569d | 30Mar11 02Jul13 | 01Apr11 17Apr12 | None | | None | | | |
| 2.6.2.1.7.1 | Procure components | Complete | 60d | 30Mar11 15Aug11 | 01Apr11 24Jun11 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+63d] | 2.6.2.1.7.2[FS] |
| 2.6.2.1.7.2 | Assemble TEC controller modules | In Progress | 45d | 05Nov11 01Jul13 | 24Oct11 29Dec11 | None | | None | | 2.6.2.1.7.1[FS] | 2.6.2.1.7.3[SS+20d] |
| 2.6.2.1.7.3 | Test TEC controller modules | In Progress | 100d | 05Nov11 02Jul13 | 21Nov11 17Apr12 | None | | None | | 2.6.2.1.7.2[SS+20d] | 2.6.2.5.2[FF]; 2.6.2.5.2[SS+40d] |
| 2.6.2.2 | Far Detector FEB Fabrication and Assembly | In Progress | 581d | 01Jul11 22Oct13 | 01Sep11 04Sep13 | None | | None | | | |
| 2.6.2.2.1 | PCB assembly | Complete | 90d | 16Dec11 31Jan13 | 16Dec11 26Apr12 | None | | None | | 2.6.2.1.4[FS]; 2.6.2.1.5[FS]; 2.6.2.1.3[FS]; 2.6.2.1.1.1[FS] | 2.6.2.5.2[FF]; 2.6.2.2.3[FS]; 2.6.2.5.2[SS+40d] |
| 2.6.2.2.2 | Electronics box assembly | Complete | 68d | 25Jan13 30Apr13 | 17Feb12 18Jul12 | None | | None | | 2.6.2.5.2[FF]; 2.6.2.1.6[FF]; 2.6.2.5.2[SS]; 2.6.2.1.6[SS+30d] | 2.6.2.2.3[FS]; 2.6.2.7.10[SS+70d]; 2.6.2.7.12[SS+84d]; 2.6.2.7.13[SS+91d]; 2.6.2.7.3[SS+21d]; 2.6.2.7.8[SS+56d]; 2.6.2.7.2[SS+14d]; 2.6.2.7.14[SS+99d]; 2.6.2.7.11[SS+77d]; 2.6.2.7.1[SS+7d]; 2.6.2.7.15[FS]; 2.6.2.7.9[SS+63d]; 2.6.2.7.5[SS+35d]; 2.6.2.7.4[SS+28d]; 2.6.2.7.7[SS+49d]; 2.6.2.7.6[SS+42d] |
| 2.6.2.2.3 | Front-end board fabrication and assembly completed | Complete | 0 | 30Apr13 30Apr13 | 18Jul12 18Jul12 | None | | None | | 2.6.2.2.2[FS]; 2.6.2.2.1[FS] | 2.6.2.3.1[FS] |
| 2.6.2.2.4 | FEB firmware final design | Complete | 81d | 01Jul11 30Apr13 | 01Sep11 29Dec11 | None | | None | | 1.6.2.5.9[FS] | 2.6.2.2.5.1[SS]; 2.6.2.5.2[FS] |
| 2.6.2.2.5 | FEB Firmware Final Design - Multipoint Readout | In Progress | 144d | 01Apr13 22Oct13 | 01Apr13 04Sep13 | None | | None | | | |
| 2.6.2.2.5.1 | Initial design layout | Complete | 40d | 01Apr13 14Jun13 | 01Apr13 24May13 | None | | None | | 2.6.2.2.4[SS] | 2.6.2.2.5.5[FS]; 2.6.2.2.5.2[SS+20d] |
| 2.6.2.2.5.2 | Implement v1 | In Progress | 20d | 29Apr13 15Jul13 | 29Apr13 24May13 | None | | None | | 2.6.2.2.5.1[SS+20d] | 2.6.2.2.5.3[FS] |
| 2.6.2.2.5.3 | Test with DCM | Planned | 20d | 16Jul13 12Aug13 | 28May13 24Jun13 | None | | None | | 2.6.2.2.5.2[FS] | 2.6.2.2.5.4[FS] |
| 2.6.2.2.5.4 | Test with FEB 4.1 | Planned | 10d | 13Aug13 26Aug13 | 25Jun13 09Jul13 | None | | None | | 2.6.2.2.5.3[FS] | 2.6.2.2.5.5[FS] |
| 2.6.2.2.5.5 | Final modifications | Planned | 30d | 27Aug13 08Oct13 | 10Jul13 20Aug13 | None | | None | | 2.6.2.2.5.1[FS]; 2.6.2.2.5.4[FS] | 2.6.2.2.5.6[FS] |
| 2.6.2.2.5.6 | Final test | Planned | 10d | 09Oct13 22Oct13 | 21Aug13 04Sep13 | None | | None | | 2.6.2.2.5.5[FS] | 2.6.2.2.5.7[FS] |
| 2.6.2.2.5.7 | FEB 4.1 firmware completed | Planned | 0 | 22Oct13 22Oct13 | 04Sep13 04Sep13 | None | | None | | 2.6.2.2.5.6[FS] | 2.6.2.4[FF] |
| 2.6.2.3 | Near Detector Fabrication and Assembly | In Progress | 181d | 01Apr13 16Dec13 | 02Jul12 25Oct13 | None | | None | | | |
| 2.6.2.3.1 | FEB modules for near detector started | Complete | 0 | 03Jun13 03Jun13 | 02Jul12 02Jul12 | None | | None | | 2.6.2.8.11[FS]; 2.6.2.2.3[FS]; 1.6.2.6.11[FS] | 2.6.2.3.2[SS] |
| 2.6.2.3.2 | Fabricate PCB | Planned | 30d | 22Aug13 03Oct13 | 02Jul12 13Aug12 | None | | None | | 2.6.2.3.1[SS] | 2.6.2.3.3[FS] |
| 2.6.2.3.3 | Assemble | Planned | 20d | 04Oct13 31Oct13 | 14Aug12 11Sep12 | None | | None | | 2.6.2.3.2[FS]; 2.6.2.3.7[FS] | 2.6.2.3.4[FS] |
| 2.6.2.3.4 | Test | Planned | 30d | 01Nov13 16Dec13 | 12Sep12 23Oct12 | None | | None | | 2.6.2.3.3[FS] | 2.6.2.3.8[SS]; 2.6.2.3.5[FS] |
| 2.6.2.3.5 | FEB modules for near detector completed | Planned | 0 | 16Dec13 16Dec13 | 23Oct12 23Oct12 | None | | None | | 2.6.2.3.8[FS]; 2.6.2.3.4[FS] | 2.8.4.2[FS] |
| 2.6.2.3.6 | Place orders for addtional ND COTS | Complete | 1d | 01Apr13 15May13 | 22Apr13 22Apr13 | None | | None | | 2.6.2.1.4[FS] | 2.6.2.3.7[FS+70d] |
| 2.6.2.3.7 | Receive addtional ND COTS based on final design | Planned | 1d | 26Aug13 26Aug13 | 01Aug13 01Aug13 | None | | None | | 2.6.2.3.6[FS+70d] | 2.6.2.3.3[FS]; 2.6.2.3.8[FS] |
| 2.6.2.3.8 | QA/QC ND boards | Planned | 30d | 01Nov13 16Dec13 | 16Sep13 25Oct13 | None | | None | | 2.6.2.3.4[SS]; 2.6.2.3.7[FS] | 2.6.2.3.5[FS] |
| 2.6.2.4 | Firmware maintenance | In Progress | 104d | 15Apr13 22Oct13 | 16Mar12 10Aug12 | None | | None | | 2.6.2.2.5.7[FF]; 2.6.2.5.2[SS+20d] | |
| 2.6.2.5 | QA/QC | Complete | 602d | 20Oct10 15Mar13 | 24Feb11 13Jul12 | None | | None | | | |
| 2.6.2.5.1 | Production Test Stands | Complete | 320d | 20Oct10 01Feb12 | 24Feb11 18May11 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.2.5.1.1 | Construct test stands | Complete | 60d | 20Oct10 30Nov11 | 24Feb11 18May11 | None | | None | | 2.10.9.6[FS]; 1.6.2.5.9[FS]; 1.7.6[SS+40d] | 2.6.2.6[SS]; 2.6.2.5.2[FS] |
| 2.6.2.5.1.2 | Software | Complete | 235d | 24Feb11 01Feb12 | 24Feb11 18May11 | None | | None | | | |
| 2.6.2.5.1.2.1 | Develop code for QA/QC testing | Complete | 60d | 28Feb11 01Feb12 | 24Feb11 18May11 | None | | None | | 1.6.2.5.9[FS]; 2.10.9.6[FS]; 1.7.6[SS+40d] | 2.6.2.6[SS] |
| 2.6.2.5.1.2.2 | Produce FEB database specification document | Complete | 60d | 24Feb11 01Feb12 | 24Feb11 18May11 | None | | None | | 1.6.2.5.9[FS]; 2.10.9.6[FS]; 1.7.6[SS+40d] | 2.6.2.6[SS] |
| 2.6.2.5.2 | Production testing | Complete | 104d | 01Feb12 15Mar13 | 17Feb12 13Jul12 | None | | None | | 2.6.2.2.1[FF]; 2.6.2.1.7.3[FF]; 2.6.2.1.7.3[SS+40d]; 2.6.2.2.1[SS+40d]; 2.6.2.5.1.1[FS]; 2.6.2.2.4[FS] | 2.6.2.2.2[FF]; 2.6.2.2.2[SS]; 2.6.2.4[SS+20d] |
| 2.6.2.6 | FEB production oversight | Complete | 40d | 15Feb11 15Mar13 | 24Feb11 20Apr11 | None | | None | | 2.10.9.6[FS]; 2.6.2.5.1.2.1[SS]; 1.6.2.5.9[FS]; 2.6.2.5.1.1[SS]; 2.6.2.5.1.2.2[SS]; 1.7.6[SS+40d] | |
| 2.6.2.7 | FEB Shipping | Complete | 200d | 16Jul12 01May13 | 21May12 21Nov13 | None | | None | | | |
| 2.6.2.7.1 | Ship FEBs for blocks 1-2 | Complete | 5d | 16Jul12 16Jul12 | 21May12 25May12 | None | | None | | 2.6.2.2.2[SS+7d]; 2.9.4.3.3[FS] | 2.6.2.7.2[FS]; 2.9.4.5.1[FS]; 2.9.4.5.110[FS] |
| 2.6.2.7.2 | Ship FEBs for blocks 3-4 | Complete | 5d | 16Jul12 16Jul12 | 27Jun12 03Jul12 | None | | None | | 2.6.2.2.2[SS+14d]; 2.6.2.7.1[FS]; 2.9.4.3.5[FS] | 2.6.2.7.3[FS]; 2.9.4.5.2[FS]; 2.9.4.5.111[FS] |
| 2.6.2.7.3 | Ship FEBs for blocks 5-6 | Complete | 5d | 04Sep12 04Mar13 | 03Aug12 09Aug12 | None | | None | | 2.6.2.2.2[SS+21d]; 2.6.2.7.2[FS]; 2.9.4.3.7[FS] | 2.6.2.7.4[FS]; 2.9.4.5.3[FS]; 2.9.4.5.112[FS] |
| 2.6.2.7.4 | Ship FEBs for blocks 7-8 | Complete | 5d | 04Sep12 04Mar13 | 11Sep12 17Sep12 | None | | None | | 2.9.4.3.10[FS]; 2.6.2.2.2[SS+28d]; 2.6.2.7.3[FS] | 2.6.2.7.5[FS]; 2.9.4.5.4[FS]; 2.9.4.5.113[FS] |
| 2.6.2.7.5 | Ship FEBs for blocks 9-10 | Complete | 5d | 04Mar13 04Mar13 | 17Oct12 23Oct12 | None | | None | | 2.9.4.3.12[FS]; 2.6.2.2.2[SS+35d]; 2.6.2.7.4[FS] | 2.6.2.7.6[FS]; 2.9.4.5.5[FS]; 2.9.4.5.114[FS] |
| 2.6.2.7.6 | Ship FEBs for blocks 11-12 | Complete | 5d | 04Mar13 15Mar13 | 26Nov12 30Nov12 | None | | None | | 2.9.4.3.15[FS]; 2.6.2.7.5[FS]; 2.6.2.2.2[SS+42d] | 2.6.2.7.7[FS]; 2.9.4.5.6[FS]; 2.9.4.5.115[FS] |
| 2.6.2.7.7 | Ship FEBs for blocks 13-14 | Complete | 5d | 15Mar13 21Mar13 | 07Jan13 11Jan13 | None | | None | | 2.9.4.3.17[FS]; 2.6.2.2.2[SS+49d]; 2.6.2.7.6[FS] | 2.6.2.7.8[FS]; 2.9.4.5.7[FS]; 2.9.4.5.116[FS] |
| 2.6.2.7.8 | Ship FEBs for blocks 15-16 | Complete | 5d | 21Mar13 21Mar13 | 13Feb13 19Feb13 | None | | None | | 2.9.4.3.19[FS]; 2.6.2.2.2[SS+56d]; 2.6.2.7.7[FS] | 2.6.2.7.9[FS]; 2.9.4.5.8[FS]; 2.9.4.5.117[FS] |
| 2.6.2.7.9 | Ship FEBs for blocks 17-18 | Complete | 5d | 21Mar13 27Mar13 | 21Mar13 27Mar13 | None | | None | | 2.6.2.7.8[FS]; 2.9.4.3.22[FS]; 2.6.2.2.2[SS+63d] | 2.6.2.7.10[FS]; 2.9.4.5.9[FS]; 2.9.4.5.118[FS] |
| 2.6.2.7.10 | Ship FEBs for blocks 19-20 | Complete | 5d | 27Mar13 27Mar13 | 26Apr13 02May13 | None | | None | | 2.6.2.7.9[FS]; 2.6.2.2.2[SS+70d]; 2.9.4.3.24[FS] | 2.6.2.7.11[FS]; 2.9.4.5.10[FS]; 2.9.4.5.119[FS] |
| 2.6.2.7.11 | Ship FEBs for blocks 21-22 | Complete | 5d | 01Apr13 05Apr13 | 04Jun13 10Jun13 | None | | None | | 2.6.2.2.2[SS+77d]; 2.6.2.7.10[FS]; 2.9.4.3.27[FS] | 2.9.4.5.11[FS]; 2.6.2.7.12[FS]; 2.9.4.5.120[FS] |
| 2.6.2.7.12 | Ship FEBs for blocks 23-24 | Complete | 5d | 08Apr13 12Apr13 | 11Jul13 17Jul13 | None | | None | | 2.6.2.2.2[SS+84d]; 2.6.2.7.11[FS]; 2.9.4.3.29[FS] | 2.6.2.7.13[FS]; 2.9.4.5.12[FS]; 2.9.4.5.121[FS] |
| 2.6.2.7.13 | Ship FEBs for blocks 25-26 | Complete | 5d | 15Apr13 19Apr13 | 16Aug13 22Aug13 | None | | None | | 2.6.2.2.2[SS+91d]; 2.6.2.7.12[FS]; 2.9.4.3.31[FS] | 2.9.4.5.13[FS]; 2.6.2.7.14[FS]; 2.9.4.5.122[FS] |
| 2.6.2.7.14 | Ship FEBs for blocks 27-28 | Complete | 1d | 22Apr13 30Apr13 | 24Sep13 30Sep13 | None | | None | | 2.6.2.2.2[SS+99d]; 2.9.4.3.34[FS]; 2.6.2.7.13[FS] | 2.9.4.5.14[FS]; 2.6.2.7.15[FS]; 2.9.4.5.123[FS] |
| 2.6.2.7.15 | Ship FEBs for blocks 29-30 (OBSOLETE) | Complete | 1d | 01May13 01May13 | 15Nov13 21Nov13 | None | | None | | 2.6.2.2.2[FS]; 2.9.4.3.36[FS]; 2.6.2.7.14[FS] | 2.9.4.5.15[FS]; 2.6.2.7.16[FS]; 2.9.4.5.124[FS] |
| 2.6.2.8 | Near Detector Pre-Production FEBs | In Progress | 641d | 01Apr11 16Oct13 | 01Sep11 07Mar12 | None | | None | | | |
| 2.6.2.8.1 | Final design | Complete | 50d | 01Apr11 05Jul12 | 01Sep11 10Nov11 | None | | None | | 1.6.2.5.13[SS]; 1.7.6[SS+40d] | 2.6.2.8.5[SS]; 2.6.2.8.3[FS]; 2.6.2.8.2[FS]; 2.6.2.8.9[SS]; 2.6.2.8.8[SS] |
| 2.6.2.8.2 | Fabricate PCB | Complete | 20d | 05Jul12 18Jul12 | 11Nov11 12Dec11 | None | | None | | 2.6.2.8.1[FS] | 2.6.2.8.4[FS] |
| 2.6.2.8.3 | Procure parts | Complete | 20d | 02Jul12 15Oct12 | 11Nov11 12Dec11 | None | | None | | 2.6.2.8.1[FS] | 2.6.2.8.4[FS] |
| 2.6.2.8.4 | Assemble | In Progress | 10d | 15Oct12 15Jul13 | 13Dec11 28Dec11 | None | | None | | 2.6.2.8.2[FS]; 2.6.2.8.3[FS] | 2.6.2.8.6[FS]; 2.6.2.8.7[FS] |
| 2.6.2.8.5 | Develop firmware | In Progress | 59d | 01Feb13 17Jul13 | 01Nov11 31Jan12 | None | | None | | 2.6.2.8.1[SS] | 2.6.2.8.7[FS] |
| 2.6.2.8.6 | Develop software | Planned | 20d | 16Jul13 12Aug13 | 03Jan12 31Jan12 | None | | None | | 2.6.2.8.4[FS] | 2.6.2.8.7[FF] |
| 2.6.2.8.7 | Test | In Progress | 25d | 15Apr13 20Aug13 | 01Feb12 06Mar12 | None | | None | | 2.6.2.8.5[FS]; 2.6.2.8.4[FS]; 2.6.2.8.6[FF] | 2.6.2.8.11[FS]; 2.6.2.8.10[FS]; 2.6.2.8.8[FF]; 2.6.2.8.9[FF] |
| 2.6.2.8.8 | Documentation | In Progress | 85d | 05Nov11 16Oct13 | 01Nov11 07Mar12 | None | | None | | 2.6.2.8.1[SS]; 2.6.2.8.7[FF] | |
| 2.6.2.8.9 | Administration | In Progress | 85d | 05Nov11 16Oct13 | 01Nov11 07Mar12 | None | | None | | 2.6.2.8.1[SS]; 2.6.2.8.7[FF] | |
| 2.6.2.8.10 | Review pre-production near detector FEB | Planned | 1d | 21Aug13 21Aug13 | 06Mar12 06Mar12 | None | | None | | 2.6.2.8.7[FS] | 2.6.2.8.11[FS]; 2.8.4.1[FS] |
| 2.6.2.8.11 | Pre-production FEB for near detector released to DAQ | Planned | 0 | 21Aug13 21Aug13 | 06Mar12 06Mar12 | None | | None | | 2.6.2.8.10[FS]; 2.6.2.8.7[FS] | 2.6.2.3.1[FS] |
| 2.6.3 | Readout Infrastructure | In Progress | 854d | 01Sep10 29Jan14 | 01Oct10 03Sep13 | None | | None | | 2.10.8.2[FS] | |
| 2.6.3.1 | Low Voltage Power Supplies | In Progress | 726d | 01Sep10 23Jul13 | 01Oct10 15Jul13 | None | | None | | | |
| 2.6.3.1.1 | Specify relay racks | Complete | 25d | 01Feb11 21Feb11 | 01Oct10 04Nov10 | None | | None | | | |
| 2.6.3.1.2 | Procure relay racks | Complete | 65d | 15Aug11 31Oct11 | 01Aug11 31Oct11 | None | | None | | 1.7.6[SS+63d] | 2.6.3.6.1[FS]; 2.6.3.1.9[FS] |
| 2.6.3.1.3 | Procure LV power supplies for FD | Complete | 180d | 15Apr11 15Nov11 | 01Apr11 15Dec11 | None | | None | | 1.7.6[SS+63d] | 2.6.3.1.4[FF+20d] |
| 2.6.3.1.4 | Test LV power supplies | Complete | 85d | 15Aug11 30Nov11 | 26Jul11 19Jan12 | None | | None | | 2.6.3.1.3[FF+20d]; 2.6.3.1.6[FS] | 2.6.3.6.2[SS+56d]; 2.6.3.6.1[SS+28d]; 2.6.3.6.3[FS] |
| 2.6.3.1.5 | Procure LV power supplies - ND | Complete | 80d | 01Sep10 30Sep10 | 01Oct10 28Jan11 | None | | None | | 1.6.3.5.1.3[FS] | |
| 2.6.3.1.6 | Set up LV and HV supply test stand | Complete | 32d | 01Jun11 15Aug11 | 15Jun11 29Jul11 | None | | None | | | 2.6.3.1.7[FS]; 2.6.3.2.2[FS]; 2.6.3.1.4[FS] |
| 2.6.3.1.7 | Design and test final airflow plenum - FD | Complete | 44d | 01Apr13 31May13 | 01Apr13 31May13 | None | | None | | 2.6.3.1.6[FS] | 2.6.3.1.8[FS] |
| 2.6.3.1.8 | Fabricate and deliver airflow plenum - FD | Complete | 20d | 03Jun13 28Jun13 | 03Jun13 28Jun13 | None | | None | | 2.6.3.1.7[FS] | 2.6.3.6.3[FS] |
| 2.6.3.1.9 | Rack parts and supplies - ND | In Progress | 20d | 17Jun13 23Jul13 | 17Jun13 15Jul13 | None | | None | | 2.6.3.1.2[FS] | 2.6.3.6.4[FS] |
| 2.6.3.2 | High Voltage Power Supplies | Complete | 197d | 15Apr11 30Jan12 | 15Apr11 25Jul11 | None | | None | | | |
| 2.6.3.2.1 | Procure HV power supplies | Complete | 60d | 15Apr11 15Aug11 | 15Apr11 11Jul11 | None | | None | | 1.7.6[SS+63d] | 2.6.3.2.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.3.2.2 | Test HV power supplies | Complete | 10d | 31Oct11 30Jan12 | 12Jul11 25Jul11 | None | | None | | 2.6.3.2.1[FS]; 2.6.3.1.6[FS] | 2.6.3.6.2[FS]; 2.6.3.6.1[FS]; 2.6.3.6.3[FS] |
| 2.6.3.3 | Power Cables | In Progress | 740d | 01Sep10 12Aug13 | 01Oct10 28Aug13 | None | | None | | | |
| 2.6.3.3.1 | Procure PDB to FEB cables | In Progress | 82d | 15Dec11 24Jul13 | 01Dec11 30Mar12 | None | | None | | 1.7.6[SS+63d] | 2.6.3.6.1[FS] |
| 2.6.3.3.2 | Procure LV supply to PDB cables | Complete | 95d | 01Jul11 30Nov11 | 01Jul11 14Nov11 | None | | None | | 1.6.3.5.3.2[FS]; 1.7.6[SS+63d] | 2.6.3.6.1[FS] |
| 2.6.3.3.3 | Procure LV supply sense cables | In Progress | 60d | 15Dec11 02Aug13 | 01Dec11 29Feb12 | None | | None | | 1.7.6[SS+63d] | 2.6.3.6.1[FS] |
| 2.6.3.3.4 | Procure HV supply to PDB cables | Complete | 30d | 06Jul11 29Jul11 | 01Aug11 12Sep11 | None | | None | | 1.6.3.5.3.4[FS]; 1.7.6[SS+63d] | 2.6.3.6.1[FS] |
| 2.6.3.3.5 | Procure PDB to DCM cables | Complete | 21d | 06Jul11 29Jul11 | 01Sep11 30Sep11 | None | | None | | 1.7.6[SS+63d] | 2.6.3.6.1[FS] |
| 2.6.3.3.6 | Procure ground cables | In Progress | 20d | 20Aug12 01Jul13 | 03Jan12 31Jan12 | None | | None | | 1.7.6[SS+63d] | 2.6.3.6.1[FS]; 2.6.3.3.15[FS] |
| 2.6.3.3.7 | Specify cable trays | Complete | 90d | 01Jun11 30Nov11 | 01Oct10 11Feb11 | None | | None | | | 2.6.3.3.8[FS] |
| 2.6.3.3.8 | Procure cable trays | Complete | 373d | 15Dec11 17Jan12 | 03Oct11 29Mar13 | None | | None | | 2.6.3.3.7[FS] | 2.9.4.5.15[FS]; 2.9.4.5.124[FS] |
| 2.6.3.3.9 | Procure remaining ND cables | Complete | 20d | 01Sep10 30Sep10 | 01Oct10 28Oct10 | None | | None | | 1.6.3.5.3.4[FF]; 1.6.3.5.3.2[FF]; 1.6.3.5.3.3[FF]; 1.6.3.5.3.1[FF]; 1.6.3.5.3.6[FF]; 1.6.3.5.3.5[FF] | 2.6.3.3.14[FS] |
| 2.6.3.3.10 | Procure spare tools | Complete | 22d | 01Jun11 30Jun11 | 15Jun11 15Jul11 | None | | None | | | 2.9.4.5.1[FS]; 2.9.4.5.110[FS] |
| 2.6.3.3.11 | Procure PDB/DCM and cable tray stand parts | Complete | 33d | 15Jun11 16Apr12 | 01Aug11 15Sep11 | None | | None | | | 2.6.3.3.13[FS]; 2.6.3.3.12[FS] |
| 2.6.3.3.12 | Fabricate PDB/DCM and cable tray stands | Complete | 127d | 30Nov11 16Apr12 | 03Jan12 29Jun12 | None | | None | | 2.6.3.3.11[FS] | 2.9.4.5.1[SS+20d]; 2.9.4.5.110[SS+20d] |
| 2.6.3.3.13 | Procure final cable tray supports | Planned | 30d | 01Jul13 12Aug13 | 01May13 12Jun13 | None | | None | | 2.6.3.3.11[FS] | 2.9.4.5.14[FS]; 2.9.4.5.123[FS] |
| 2.6.3.3.14 | Procure custom cables for ND | Planned | 20d | 01Jul13 29Jul13 | 01Jul13 29Jul13 | None | | None | | 2.6.3.3.9[FS] | 2.6.3.6.4[FS] |
| 2.6.3.3.15 | Procure grounding supplies | Planned | 20d | 02Jul13 30Jul13 | 01Aug13 28Aug13 | None | | None | | 2.6.3.3.6[FS] | 2.6.3.6.4[FS] |
| 2.6.3.4 | Power Distribution Boxes | In Progress | 730d | 01Sep10 29Jul13 | 01Oct10 28Aug13 | None | | None | | | |
| 2.6.3.4.1 | Procure PDB parts | Complete | 60d | 15Apr11 15Aug11 | 01Apr11 24Jun11 | None | | None | | 1.7.6[SS+63d]; 1.6.3.5.4.4[FS] | 2.6.3.4.2[FS] |
| 2.6.3.4.2 | Assemble and test PDB's | Complete | 250d | 15Aug11 28Jun13 | 27Jun11 22Jun12 | None | | None | | 2.6.3.4.1[FS] | 2.6.3.6.3[FS]; 2.6.3.6.2[SS+167d]; 2.6.3.6.1[SS+83d] |
| 2.6.3.4.3 | Procure PDB parts - ND | Complete | 60d | 01Sep10 30Sep10 | 01Oct10 29Dec10 | None | | None | | 1.6.3.5.4.1[FS] | 2.6.3.4.4[FS] |
| 2.6.3.4.4 | Retrofit NDOS PDBs for Near Detector | Planned | 20d | 01Jul13 29Jul13 | 01Aug13 28Aug13 | None | | None | | 2.6.3.4.3[FS] | 2.6.3.6.4[FS] |
| 2.6.3.5 | Cooling | In Progress | 754d | 01Oct10 01Oct13 | 01Oct10 03Sep13 | None | | None | | | |
| 2.6.3.5.1 | Manifolds | Complete | 254d | 01Oct10 04Oct11 | 01Oct10 04Oct11 | None | | None | | | |
| 2.6.3.5.1.1 | Procurement | Complete | 253d | 01Oct10 03Oct11 | 01Oct10 03Oct11 | None | | None | | | |
| 2.6.3.5.1.1.1 | Procure manifolds - Block 1 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.1[FS]; 2.6.3.5.2[SS] |
| 2.6.3.5.1.1.2 | Procure manifolds - Block 2 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.2[FS] |
| 2.6.3.5.1.1.3 | Procure manifolds - Block 3 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.3[FS] |
| 2.6.3.5.1.1.4 | Procure manifolds - Block 4 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.4[FS] |
| 2.6.3.5.1.1.5 | Procure manifolds - Block 5 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.5[FS] |
| 2.6.3.5.1.1.6 | Procure manifolds - Block 6 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.6[FS] |
| 2.6.3.5.1.1.7 | Procure manifolds - Block 7 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.7[FS] |
| 2.6.3.5.1.1.8 | Procure manifolds - Block 8 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.8[FS] |
| 2.6.3.5.1.1.9 | Procure manifolds - Block 9 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.9[FS] |
| 2.6.3.5.1.1.10 | Procure manifolds - Block 10 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.10[FS] |
| 2.6.3.5.1.1.11 | Procure manifolds - Block 11 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.11[FS] |
| 2.6.3.5.1.1.12 | Procure manifolds - Block 12 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.12[FS] |
| 2.6.3.5.1.1.13 | Procure manifolds - Block 13 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.13[FS] |
| 2.6.3.5.1.1.14 | Procure manifolds - Block 14 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.14[FS] |
| 2.6.3.5.1.1.15 | Procure manifolds - Block 15 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.15[FS] |
| 2.6.3.5.1.1.16 | Procure manifolds - Block 16 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.16[FS] |
| 2.6.3.5.1.1.17 | Procure manifolds - Block 17 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.17[FS] |
| 2.6.3.5.1.1.18 | Procure manifolds - Block 18 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.18[FS] |
| 2.6.3.5.1.1.19 | Procure manifolds - Block 19 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.19[FS] |
| 2.6.3.5.1.1.20 | Procure manifolds - Block 20 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.20[FS] |
| 2.6.3.5.1.1.21 | Procure manifolds - Block 21 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.21[FS] |
| 2.6.3.5.1.1.22 | Procure manifolds - Block 22 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.22[FS] |
| 2.6.3.5.1.1.23 | Procure manifolds - Block 23 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.23[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.3.5.1.1.24 | Procure manifolds - Block 24 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.24[FS] |
| 2.6.3.5.1.1.25 | Procure manifolds - Block 25 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.25[FS] |
| 2.6.3.5.1.1.26 | Procure manifolds - Block 26 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.26[FS] |
| 2.6.3.5.1.1.27 | Procure manifolds - Block 27 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.27[FS] |
| 2.6.3.5.1.1.28 | Procure manifolds - Block 28 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.28[FS] |
| 2.6.3.5.1.1.29 | Procure manifolds - Block 29 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.29[FS] |
| 2.6.3.5.1.1.30 | Procure manifolds - Block 30 (Obsolete) | Complete | 1d | 03Oct11 03Oct11 | 03Oct11 03Oct11 | None | | None | | | 2.6.3.5.1.2.30[FS] |
| 2.6.3.5.1.1.34 | Procure manifolds - ND | Complete | 30d | 01Oct10 20Oct10 | 01Oct10 11Nov10 | None | | None | | 1.6.1.6.2.1[FS] | 1.6.1.6.2.3[FS] |
| 2.6.3.5.1.2 | Manifold Shipping | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | | |
| 2.6.3.5.1.2.1 | Ship manifolds - Block 1 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.1[FS] | |
| 2.6.3.5.1.2.2 | Ship manifolds - Block 2 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.2[FS] | |
| 2.6.3.5.1.2.3 | Ship manifolds - Block 3 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.3[FS] | |
| 2.6.3.5.1.2.4 | Ship manifolds - Block 4 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.4[FS] | |
| 2.6.3.5.1.2.5 | Ship manifolds - Block 5 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.5[FS] | |
| 2.6.3.5.1.2.6 | Ship manifolds - Block 6 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.6[FS] | |
| 2.6.3.5.1.2.7 | Ship manifolds - Block 7 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.7[FS] | |
| 2.6.3.5.1.2.8 | Ship manifolds - Block 8 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.8[FS] | |
| 2.6.3.5.1.2.9 | Ship manifolds - Block 9 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.9[FS] | |
| 2.6.3.5.1.2.10 | Ship manifolds - Block 10 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.10[FS] | |
| 2.6.3.5.1.2.11 | Ship manifolds - Block 11 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.11[FS] | |
| 2.6.3.5.1.2.12 | Ship manifolds - Block 12 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.12[FS] | |
| 2.6.3.5.1.2.13 | Ship manifolds - Block 13 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.13[FS] | |
| 2.6.3.5.1.2.14 | Ship manifolds - Block 14 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.14[FS] | |
| 2.6.3.5.1.2.15 | Ship manifolds - Block 15 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.15[FS] | |
| 2.6.3.5.1.2.16 | Ship manifolds - Block 16 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.16[FS] | |
| 2.6.3.5.1.2.17 | Ship manifolds - Block 17 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.17[FS] | |
| 2.6.3.5.1.2.18 | Ship manifolds - Block 18 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.18[FS] | |
| 2.6.3.5.1.2.19 | Ship manifolds - Block 19 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.19[FS] | |
| 2.6.3.5.1.2.20 | Ship manifolds - Block 20 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.20[FS] | |
| 2.6.3.5.1.2.21 | Ship manifolds - Block 21 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.21[FS] | |
| 2.6.3.5.1.2.22 | Ship manifolds - Block 22 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.22[FS] | |
| 2.6.3.5.1.2.23 | Ship manifolds - Block 23 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.23[FS] | |
| 2.6.3.5.1.2.24 | Ship manifolds - Block 24 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.24[FS] | |
| 2.6.3.5.1.2.25 | Ship manifolds - Block 25 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.25[FS] | |
| 2.6.3.5.1.2.26 | Ship manifolds - Block 26 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.26[FS] | |
| 2.6.3.5.1.2.27 | Ship manifolds - Block 27 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.27[FS] | |
| 2.6.3.5.1.2.28 | Ship manifolds - Block 28 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.28[FS] | |
| 2.6.3.5.1.2.29 | Ship manifolds - Block 29 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.29[FS] | |
| 2.6.3.5.1.2.30 | Ship manifolds - Block 30 (Obsolete) | Complete | 1d | 04Oct11 04Oct11 | 04Oct11 04Oct11 | None | | None | | 2.6.3.5.1.1.30[FS] | 2.6.3.5.3[FS] |
| 2.6.3.5.2 | Procure other components (Obsolete) | Complete | 1d | 01Nov11 01Nov11 | 01Nov11 01Nov11 | None | | None | | 2.6.3.5.1.1.1[SS] | |
| 2.6.3.5.3 | Cooling system hardware delivered | Planned | 0 | 15Jul13 15Jul13 | 23May12 23May12 | None | | None | | 2.6.3.5.1.2.30[FS]; 2.6.3.5.6.4[FS]; 2.6.3.5.6.8[FS]; 2.6.3.5.6.6[FS]; 2.6.3.5.6.2[FS] | |
| 2.6.3.5.4 | Fill and Test Equipment (Obsolete) | Complete | 3d | 01Nov11 03Nov11 | 29Apr11 11Jul11 | None | | None | | | |
| 2.6.3.5.4.1 | Design (Obsolete) | Complete | 1d | 01Nov11 01Nov11 | 29Apr11 12May11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.6.3.5.4.2[FS] |
| 2.6.3.5.4.2 | Build (Obsolete) | Complete | 1d | 02Nov11 02Nov11 | 13May11 10Jun11 | None | | None | | 2.6.3.5.4.1[FS] | 2.6.3.5.4.3[FS] |
| 2.6.3.5.4.3 | Commission (Obsolete) | Complete | 1d | 03Nov11 03Nov11 | 13Jun11 11Jul11 | None | | None | | 2.6.3.5.4.2[FS] | |
| 2.6.3.5.5 | Auxiliary Panel Readout (OBSOLETE) | Complete | 2d | 01Jul11 05Jul11 | 01Jul11 05Jul11 | None | | None | | | |
| 2.6.3.5.5.1 | Design (OBSOLETE) | Complete | 1d | 01Jul11 01Jul11 | 01Jul11 01Jul11 | None | | None | | | 2.6.3.5.5.2[FS] |
| 2.6.3.5.5.2 | Build (OBSOLETE) | Complete | 1d | 05Jul11 05Jul11 | 05Jul11 05Jul11 | None | | None | | 2.6.3.5.5.1[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.3.5.6 | Chilled Water Distribution and Monitoring | In Progress | 384d | 06Jan12 15Jul13 | 01Dec11 28Jun12 | None | | None | | | |
| 2.6.3.5.6.1 | Order piping, insulation, and valves | Complete | 10d | 08Mar12 08Mar12 | 15Dec11 03Jan12 | None | | None | | | 2.6.3.5.6.2[FS+20d] |
| 2.6.3.5.6.2 | Receive piping, insulation, and valves | Complete | 30d | 02Apr12 30May12 | 02Feb12 14Mar12 | None | | None | | 2.6.3.5.6.1[FS+20d] | 2.6.3.5.3[FS] |
| 2.6.3.5.6.3 | Order connection hoses | Complete | 10d | 15Jun12 31May13 | 15Feb12 28Feb12 | None | | None | | | 2.6.3.5.6.4[FS+23d] |
| 2.6.3.5.6.4 | Receive connection hoses | In Progress | 20d | 01Feb13 15Jul13 | 02Apr12 27Apr12 | None | | None | | 2.6.3.5.6.3[FS+23d] | 2.6.3.5.3[FS] |
| 2.6.3.5.6.5 | Order chiller plant equipment | Complete | 10d | 06Jan12 17Jan12 | 01Dec11 14Dec11 | None | | None | | | 2.6.3.5.6.6[FS+71d] |
| 2.6.3.5.6.6 | Receive chiller plant equipment | Complete | 20d | 15Mar12 30May12 | 26Apr12 23May12 | None | | None | | 2.6.3.5.6.5[FS+71d] | 2.6.3.5.3[FS] |
| 2.6.3.5.6.7 | Order monitoring and control equipment | Complete | 10d | 15Mar12 15Mar12 | 01Dec11 14Dec11 | None | | None | | | 2.6.3.5.6.8[FS+20d] |
| 2.6.3.5.6.8 | Receive monitoring and control equipment | Complete | 21d | 02Apr12 20Jul12 | 02Apr12 30Apr12 | None | | None | | 2.6.3.5.6.7[FS+20d] | 2.6.3.5.3[FS]; 2.6.3.5.6.9[FS+22d] |
| 2.6.3.5.6.9 | Program monitoring and control equipment | Complete | 20d | 16Jul12 31Aug12 | 01Jun12 28Jun12 | None | | None | | 2.6.3.5.6.8[FS+22d] | 2.9.4.6.50.1[FS] |
| 2.6.3.5.7 | APD Drying System | Complete | 258d | 06Jan12 15Jan13 | 10Jan12 14Dec12 | None | | None | | | |
| 2.6.3.5.7.1 | Conceptual design of APD drying system | Complete | 22d | 06Jan12 28Feb12 | 10Jan12 09Feb12 | None | | None | | | 2.6.3.5.7.2[FS] |
| 2.6.3.5.7.2 | Test concept of APD drying system on NDOS | Complete | 11d | 15Mar12 30Mar12 | 10Feb12 09Mar12 | None | | None | | 2.6.3.5.7.1[FS] | 2.6.3.5.7.4[FS]; 2.6.3.5.7.3[FS] |
| 2.6.3.5.7.3 | Final design and documentation of APD drying system | Complete | 21d | 01May12 31Aug12 | 12Mar12 09Apr12 | None | | None | | 2.6.3.5.7.2[FS] | 2.6.3.5.7.5[FS+15d]; 2.6.3.5.8.1[FS] |
| 2.6.3.5.7.4 | Large deployment on NDOS | Complete | 22d | 01May12 31May12 | 20Feb12 19Mar12 | None | | None | | 2.6.3.5.7.2[FS] | 2.6.3.5.7.5[FS]; 2.6.1.2.3.1[FS+65d] |
| 2.6.3.5.7.5 | Review APD drying system | Complete | 2d | 31Aug12 31Aug12 | 01May12 02May12 | None | | None | | 2.6.3.5.7.3[FS+15d]; 2.6.3.5.7.4[FS] | 2.6.3.5.7.6[FS] |
| 2.6.3.5.7.6 | Place POs for FD procurements | Complete | 11d | 05Sep12 19Sep12 | 05Sep12 19Sep12 | None | | None | | 2.6.3.5.7.5[FS] | 2.6.3.5.7.11[FS+40d]; 2.6.3.5.7.8[FS+40d]; 2.6.3.5.7.10[FS+40d]; 2.6.3.5.7.9[FS+40d]; 2.6.3.5.7.7[FS+40d] |
| 2.6.3.5.7.7 | Receive main equipment and monitoring | Complete | 1d | 01Oct12 25Oct12 | 15Nov12 15Nov12 | None | | None | | 2.6.3.5.7.6[FS+40d] | 2.6.3.5.7.12[FS]; 2.9.4.5.1[FF] |
| 2.6.3.5.7.8 | Receive APD jumper hoses | Complete | 1d | 14Dec12 14Dec12 | 15Nov12 15Nov12 | None | | None | | 2.6.3.5.7.6[FS+40d] | 2.9.4.5.1[FF] |
| 2.6.3.5.7.9 | Receive control system and instrumentation | Complete | 1d | 01Oct12 25Oct12 | 15Nov12 15Nov12 | None | | None | | 2.6.3.5.7.6[FS+40d] | 2.6.3.5.7.13[FS]; 2.9.4.5.1[FF] |
| 2.6.3.5.7.10 | Receive end of drier line - instrument panels | Complete | 1d | 01Oct12 15Jan13 | 15Nov12 15Nov12 | None | | None | | 2.6.3.5.7.6[FS+40d] | 2.6.3.5.7.13[FS]; 2.9.4.6.60.1[FS]; 2.9.4.5.1[FF] |
| 2.6.3.5.7.11 | Receive tubing and connectors misc parts | Complete | 1d | 01Oct12 25Oct12 | 15Nov12 15Nov12 | None | | None | | 2.6.3.5.7.6[FS+40d] | 2.6.3.5.7.14[FS]; 2.9.4.5.1[FF] |
| 2.6.3.5.7.12 | Assemble dry gas mechancial systems | Complete | 30d | 01Nov12 27Dec12 | 01Nov12 14Dec12 | None | | None | | 2.6.3.5.7.7[FS] | 2.6.3.5.7.14[FF]; 2.6.3.5.7.13[FF]; 2.9.4.6.50.1[FS] |
| 2.6.3.5.7.13 | Assemble dry gas electrical and control systems | Complete | 21d | 14Nov12 27Dec12 | 14Nov12 14Dec12 | None | | None | | 2.6.3.5.7.10[FS]; 2.6.3.5.7.9[FS]; 2.6.3.5.7.12[FF] | 2.9.4.6.50.1[FS] |
| 2.6.3.5.7.14 | Clean hoses for dry gas system | Complete | 21d | 14Nov12 27Dec12 | 14Nov12 14Dec12 | None | | None | | 2.6.3.5.7.12[FF]; 2.6.3.5.7.11[FS] | 2.9.4.6.50.1[FS] |
| 2.6.3.5.8 | Near Detector APD Cooling and Drying System | In Progress | 109d | 29Apr13 01Oct13 | 01May13 03Sep13 | None | | None | | | |
| 2.6.3.5.8.1 | Final design - ND water and dry air system | In Progress | 60d | 29Apr13 02Aug13 | 01May13 25Jul13 | None | | None | | 2.6.3.5.7.3[FS] | 2.6.3.5.8.7[SS+22d]; 2.6.3.5.8.2[SS+22d] |
| 2.6.3.5.8.2 | Place POs for ND procurements | Planned | 10d | 01Jul13 15Jul13 | 03Jun13 14Jun13 | None | | None | | 2.6.3.5.8.1[SS+22d] | 2.6.3.5.8.5[FS+32d]; 2.6.3.5.8.6[FS+32d]; 2.6.3.5.8.3[FS+32d]; 2.6.3.5.8.4[FS+32d] |
| 2.6.3.5.8.3 | Receive main equipment and monitoring | Planned | 1d | 29Aug13 29Aug13 | 01Aug13 01Aug13 | None | | None | | 2.6.3.5.8.2[FS+32d] | 2.6.3.5.8.10[FS] |
| 2.6.3.5.8.4 | Receive control system and instrumentation | Planned | 1d | 29Aug13 29Aug13 | 01Aug13 01Aug13 | None | | None | | 2.6.3.5.8.2[FS+32d] | 2.6.3.5.8.10[FS] |
| 2.6.3.5.8.5 | Receive end of drier line-instrument panels | Planned | 1d | 29Aug13 29Aug13 | 01Aug13 01Aug13 | None | | None | | 2.6.3.5.8.2[FS+32d] | 2.6.3.5.8.10[FS] |
| 2.6.3.5.8.6 | Receive tubing and connectors misc parts | Planned | 1d | 29Aug13 29Aug13 | 01Aug13 01Aug13 | None | | None | | 2.6.3.5.8.2[FS+32d] | 2.6.3.5.8.10[FS]; 2.6.3.5.8.12[FS]; 2.6.3.5.8.14[FS] |
| 2.6.3.5.8.7 | Perform water and dry gas system electrical work | Planned | 10d | 01Jul13 15Jul13 | 03Jun13 14Jun13 | None | | None | | 2.6.3.5.8.1[SS+22d]; 2.8.1.7[FS] | 2.6.3.5.8.8[FS] |
| 2.6.3.5.8.8 | Prepare footprint for water and dry gas system infrastructure | Planned | 4d | 16Jul13 19Jul13 | 17Jun13 20Jun13 | None | | None | | 2.6.3.5.8.7[FS] | 2.6.3.5.8.9[FS] |
| 2.6.3.5.8.9 | Install wire trough | Planned | 3d | 22Jul13 24Jul13 | 21Jun13 25Jun13 | None | | None | | 2.6.3.5.8.8[FS] | 2.6.3.5.8.10[FS] |
| 2.6.3.5.8.10 | Mount electrical and mechanical assemblies | Planned | 3d | 30Aug13 04Sep13 | 02Aug13 06Aug13 | None | | None | | 2.6.3.5.8.6[FS]; 2.6.3.5.8.5[FS]; 2.6.3.5.8.9[FS]; 2.6.3.5.8.4[FS]; 2.6.3.5.8.3[FS] | 2.6.3.5.8.11[FS] |
| 2.6.3.5.8.11 | Pull wires between instruments and PLC | Planned | 3d | 05Sep13 09Sep13 | 07Aug13 09Aug13 | None | | None | | 2.6.3.5.8.10[FS] | 2.6.3.5.8.12[FS] |
| 2.6.3.5.8.12 | Connect tubing between mechanical assemblies | Planned | 3d | 10Sep13 12Sep13 | 12Aug13 14Aug13 | None | | None | | 2.6.3.5.8.11[FS]; 2.6.3.5.8.6[FS] | 2.6.3.5.8.13[FS] |
| 2.6.3.5.8.13 | Wire instruments to PLC | Planned | 5d | 13Sep13 19Sep13 | 15Aug13 21Aug13 | None | | None | | 2.6.3.5.8.12[FS] | 2.6.3.5.8.14[FS] |
| 2.6.3.5.8.14 | Install water and air tubing to di-blocks | Planned | 3d | 20Sep13 24Sep13 | 22Aug13 26Aug13 | None | | None | | 2.6.3.5.8.6[FS]; 2.6.3.5.8.13[FS] | 2.6.3.5.8.15[FS] |
| 2.6.3.5.8.15 | Commission water and dry gas systems | Planned | 5d | 25Sep13 01Oct13 | 27Aug13 03Sep13 | None | | None | | 2.6.3.5.8.14[FS] | 2.6.3.5.8.16[FS] |
| 2.6.3.5.8.16 | Near Detector water and dry gas systems ready for APDs | Planned | 0 | 01Oct13 01Oct13 | 03Sep13 03Sep13 | None | | None | | 2.6.3.5.8.15[FS] | 2.8.4.4.2[FS] |
| 2.6.3.6 | Power Distribution System Shipping | In Progress | 501d | 01Feb12 29Jan14 | 10May12 13Aug13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.6.3.6.1 | Ship first third of power distribution system to far site | Complete | 5d | 01Feb12 01Feb12 | 10May12 16May12 | None | | None | | 2.6.3.3.5[FS]; 2.6.3.3.6[FS]; 2.6.3.3.4[FS]; 2.6.3.1.2[FS]; 2.6.3.2.2[FS]; 2.6.3.3.2[FS]; 2.6.3.3.3[FS]; 2.6.3.3.1[FS]; 2.9.4.5.1[SS-20d]; 2.6.3.1.4[SS+28d]; 2.6.3.4.2[SS+83d] | 2.6.3.6.4[SS]; 2.6.3.6.2[FS] |
| 2.6.3.6.2 | Ship second third of power distribution system to far site | Complete | 5d | 01Feb12 15Mar12 | 21Dec12 02Jan13 | None | | None | | 2.9.4.5.6[SS-20d]; 2.6.3.2.2[FS]; 2.6.3.1.4[SS+56d]; 2.6.3.6.1[FS]; 2.6.3.4.2[SS+167d] | 2.6.3.6.3[FS] |
| 2.6.3.6.3 | Ship final third of power distribution system to far site | Complete | 5d | 17Jun13 20Jun13 | 07Aug13 13Aug13 | None | | None | | 2.9.4.5.11[SS-20d]; 2.6.3.4.2[FS]; 2.6.3.1.8[FS]; 2.6.3.6.2[FS]; 2.6.3.2.2[FS]; 2.6.3.1.4[FS] | |
| 2.6.3.6.4 | Ship near detector power distribution system to Fermilab | Planned | 5d | 23Jan14 29Jan14 | 04Jan13 10Jan13 | None | | None | | 2.8.4.4.1[FS]; 2.6.3.1.9[FS]; 2.6.3.4.4[FS]; 2.6.3.3.15[FS]; 2.6.3.3.14[FS]; 2.6.3.6.1[SS] | |
| 2.6.4 | Management - Construction Phase | In Progress | 1540d | 01Oct07 14Nov13 | 01Oct07 14Nov13 | None | | None | | | |
| 2.6.4.2 | FY08 | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.6.4.2.1 | Labor (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.6.4.3.1[FS] |
| 2.6.4.2.2 | Travel (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.6.4.3.2[FS] |
| 2.6.4.2.3 | Equipment (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.6.4.3.3[FS] |
| 2.6.4.2.4 | Materials and supplies (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.6.4.3.4[FS] |
| 2.6.4.3 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.6.4.3.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.6.4.2.1[FS]; 2.10.8.1[FS] | 2.6.4.4.1[FS]; 2.6.4.3.2[SS]; 2.6.4.3.3[SS]; 2.6.4.3.4[SS] |
| 2.6.4.3.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.6.4.2.2[FS]; 2.6.4.3.1[SS] | 2.6.4.4.2[FS] |
| 2.6.4.3.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.6.4.2.3[FS]; 2.6.4.3.1[SS] | 2.6.4.4.3[FS] |
| 2.6.4.3.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.6.4.2.4[FS]; 2.6.4.3.1[SS] | 2.6.4.4.4[FS] |
| 2.6.4.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.6.4.4.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.6.4.3.1[FS] | 2.6.4.5.1[FS] |
| 2.6.4.4.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.6.4.3.2[FS] | 2.6.4.5.2[FS] |
| 2.6.4.4.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.6.4.3.3[FS] | 2.6.4.5.3[FS] |
| 2.6.4.4.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.6.4.3.4[FS] | 2.6.4.5.4[FS] |
| 2.6.4.4.5 | Labor - supplemental | Complete | 170d | 01Feb10 30Sep10 | 01Feb10 29Sep10 | None | | None | | | |
| 2.6.4.4.6 | Travel - supplemental | Complete | 170d | 01Feb10 30Sep10 | 01Feb10 29Sep10 | None | | None | | | |
| 2.6.4.4.7 | Materials and supplies - supplemental | Complete | 170d | 01Feb10 30Sep10 | 01Feb10 29Sep10 | None | | None | | | |
| 2.6.4.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.6.4.5.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.6.4.4.1[FS] | 2.6.4.6.1[FS] |
| 2.6.4.5.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.6.4.4.2[FS] | 2.6.4.6.2[FS]; 2.6.4.6.5[FS] |
| 2.6.4.5.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.6.4.4.3[FS] | 2.6.4.6.3[FS] |
| 2.6.4.5.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.6.4.4.4[FS] | 2.6.4.6.4[FS] |
| 2.6.4.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.6.4.6.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.6.4.5.1[FS] | 2.6.4.7.1[FS] |
| 2.6.4.6.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.6.4.5.2[FS] | 2.6.4.7.2[FS] |
| 2.6.4.6.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.6.4.5.3[FS] | 2.6.4.7.3[FS] |
| 2.6.4.6.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.6.4.5.4[FS] | 2.6.4.7.4[FS] |
| 2.6.4.6.5 | Travel and Supplies - Supplemental | Complete | 125d | 01Dec11 31May12 | 01Dec11 31May12 | None | | None | | 2.6.4.5.2[FS] | 2.6.4.7.2[FS] |
| 2.6.4.7 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.6.4.7.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.6.4.6.1[FS] | |
| 2.6.4.7.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.6.4.6.5[FS]; 2.6.4.6.2[FS] | |
| 2.6.4.7.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.6.4.6.3[FS] | 2.6.4.8[SS] |
| 2.6.4.7.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.6.4.6.4[FS] | |
| 2.6.4.8 | Transfer electronics spares to PPD | Planned | 10d | 01Nov13 14Nov13 | 01Nov13 14Nov13 | Not Earlier Than | 01Nov13 | None | | 2.6.4.7.3[SS] | 2.10.8.3[FS] |
| 2.7 | Data Acquisition System | In Progress | 1619d | 01Oct07 14Mar14 | 01Oct07 18Nov13 | None | | None | | | |
| 2.7.1 | DAQ Software | In Progress | 1219d | 06May09 14Mar14 | 01Oct09 27Sep13 | None | | None | | 2.10.8.2[FS] | |
| 2.7.1.1 | Error Handling System | In Progress | 902d | 15Dec09 18Jul13 | 02Nov09 06Apr11 | None | | None | | | |
| 2.7.1.1.1 | Error Handling System-Second Release | In Progress | 894d | 15Dec09 08Jul13 | 02Nov09 27Jul10 | None | | None | | | |
| 2.7.1.1.1.1 | Develop error handling system client interface | Complete | 10d | 01Feb10 12Feb10 | 19Jan10 15Feb10 | None | | None | | 2.7.1.1.1.7[FS]; 1.7.1.2.4.8[FS] | 2.7.1.1.1.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.1.1.2 | Update error handling system test and verification suite for second release | Complete | 40d | 03Mar10 19Apr10 | 03Mar10 27Apr10 | None | | None | | 2.7.1.1.1.8[FS] | 2.7.1.1.1.4[FS]; 2.7.1.1.1.3[FS] |
| 2.7.1.1.1.3 | Update error handling system user documentation for second release | Complete | 10d | 03Mar10 18Oct10 | 28Apr10 11May10 | None | | None | | 2.7.1.1.1.2[FS]; 2.7.1.1.1.10[FS] | 2.7.1.1.1.5[FS] |
| 2.7.1.1.1.4 | Perform error handling system tests and verification for second release | Complete | 4d | 20Apr10 18Oct10 | 28Apr10 03May10 | None | | None | | 2.7.1.1.1.2[FS]; 2.7.1.1.1.10[FS] | 2.7.1.1.1.5[FS] |
| 2.7.1.1.1.5 | Review error handling system software, tests and documentation for second release | In Progress | 8d | 29Jul11 08Jul13 | 12May10 21May10 | None | | None | | 2.7.1.1.1.4[FS]; 2.7.1.1.1.3[FS] | 2.7.1.1.1.6[FS] |
| 2.7.1.1.1.6 | Error handling system for software second release | Planned | 0 | 08Jul13 08Jul13 | 21May10 21May10 | None | | None | | 2.7.1.1.1.5[FS] | 2.7.1.1.2.1[FS] |
| 2.7.1.1.1.7 | Improve first release functionality | Complete | 30d | 15Dec09 28Jan10 | 02Nov09 15Dec09 | None | | None | | 1.7.1.2.4.8[FS] | 2.7.1.1.1.1[FS] |
| 2.7.1.1.1.8 | Add remote logging with DDS for error handling system-second release | Complete | 12d | 15Feb10 01Apr10 | 15Feb10 02Mar10 | None | | None | | 2.7.1.1.1.1[FS] | 2.7.1.1.1.9[FS]; 2.7.1.1.1.2[FS] |
| 2.7.1.1.1.9 | Write GUI for error handling system -first release | Complete | 20d | 20Apr10 31Aug10 | 03Mar10 30Mar10 | None | | None | | 2.7.1.1.1.8[FS] | 2.7.1.1.1.10[FS] |
| 2.7.1.1.1.10 | Integrate configuration management | Complete | 10d | 22Mar10 26Mar10 | 31Mar10 13Apr10 | None | | None | | 2.7.1.1.1.9[FS] | 2.7.1.1.1.11[FS]; 2.7.1.1.1.4[FS]; 2.7.1.1.1.3[FS] |
| 2.7.1.1.1.11 | Add partition support to error handler | Complete | 40d | 14May10 26May10 | 01Jun10 27Jul10 | None | | None | | 2.7.1.1.1.10[FS] | 2.7.1.1.2.1[FS] |
| 2.7.1.1.2 | Error Handling System-Third Release | In Progress | 591d | 15Mar11 18Jul13 | 01Feb11 06Apr11 | None | | None | | | |
| 2.7.1.1.2.1 | Develop error handling system automatic error recovery | Complete | 19d | 15Mar11 11Jul11 | 01Feb11 25Feb11 | None | | None | | 2.7.1.1.1.11[FS]; 2.7.1.1.1.6[FS] | 2.7.1.1.2.2[FS] |
| 2.7.1.1.2.2 | Update error handling system test and verification suite for third release | Complete | 10d | 02May11 30Sep11 | 28Feb11 11Mar11 | None | | None | | 2.7.1.1.2.1[FS] | 2.7.1.1.2.3[FS]; 2.7.1.1.2.4[FS] |
| 2.7.1.1.2.3 | Update error handling system user documentation for third release | Complete | 10d | 01Jun11 31Jan13 | 14Mar11 25Mar11 | None | | None | | 2.7.1.1.2.2[FS] | 2.7.1.1.2.5[FS] |
| 2.7.1.1.2.4 | Perform error handling system tests and verification for third release | Complete | 4d | 02May11 31Jan13 | 14Mar11 17Mar11 | None | | None | | 2.7.1.1.2.2[FS] | 2.7.1.1.2.5[FS] |
| 2.7.1.1.2.5 | Review error handling system software, tests and documentation for third release | Planned | 8d | 09Jul13 18Jul13 | 28Mar11 06Apr11 | None | | None | | 2.7.1.1.2.3[FS]; 2.7.1.1.2.4[FS] | 2.7.1.1.2.6[FS] |
| 2.7.1.1.2.6 | Error handling system for software third release | Planned | 0 | 18Jul13 18Jul13 | 06Apr11 06Apr11 | None | | None | | 2.7.1.1.2.5[FS] | 2.7.1.11[FS] |
| 2.7.1.2 | Message Passing System | In Progress | 868d | 01Feb10 11Jul13 | 01Feb10 10Mar11 | None | | None | | | |
| 2.7.1.2.1 | Message Passing System-Second Release | In Progress | 656d | 01Dec10 11Jul13 | 01Dec10 10Mar11 | None | | None | | | |
| 2.7.1.2.1.1 | Message passing system monitoring and diagnostics code | Complete | 40d | 01Dec10 29Apr11 | 01Dec10 31Jan11 | None | | None | | 2.7.1.2.2.5[FS] | 2.7.1.2.1.2[FS] |
| 2.7.1.2.1.2 | Update message passing system test and verification suite for second release | In Progress | 10d | 03Jan11 01Jul13 | 01Feb11 14Feb11 | None | | None | | 2.7.1.2.1.1[FS] | 2.7.1.2.1.4[FS]; 2.7.1.2.1.3[FS] |
| 2.7.1.2.1.3 | Update message handling system user documentation for second release | In Progress | 10d | 25Mar11 02Jul13 | 15Feb11 28Feb11 | None | | None | | 2.7.1.2.1.2[FS] | 2.7.1.2.1.5[FS] |
| 2.7.1.2.1.4 | Perform message passing system tests and verification for second release | In Progress | 4d | 03Jan11 02Jul13 | 15Feb11 18Feb11 | None | | None | | 2.7.1.2.1.2[FS] | 2.7.1.2.1.5[FS] |
| 2.7.1.2.1.5 | Review message passing system software, tests and documentation for second release | In Progress | 8d | 30Mar12 11Jul13 | 01Mar11 10Mar11 | None | | None | | 2.7.1.2.1.3[FS]; 2.7.1.2.1.4[FS] | 2.7.1.2.1.6[FS] |
| 2.7.1.2.1.6 | Message passing system for software second release | Planned | 0 | 11Jul13 11Jul13 | 10Mar11 10Mar11 | None | | None | | 2.7.1.2.1.5[FS] | 2.7.1.11[FS] |
| 2.7.1.2.2 | Message Passing System-Enhanced First Release | Complete | 546d | 01Feb10 30Mar12 | 01Feb10 14Jun10 | None | | None | | | |
| 2.7.1.2.2.1 | Integrate DDS message transport | Complete | 30d | 01Feb10 18Mar10 | 01Feb10 12Mar10 | None | | None | | 1.7.1.3.4.8[FS] | 2.7.1.2.2.3[FS]; 2.7.1.2.2.2[FS] |
| 2.7.1.2.2.2 | Write user documentation - Enhanced first release | Complete | 22d | 19Mar10 30Mar12 | 15Mar10 13Apr10 | None | | None | | 2.7.1.2.2.1[FS] | 2.7.1.2.2.4[FS] |
| 2.7.1.2.2.3 | Update enhanced first release | Complete | 45d | 19Apr10 31Aug10 | 15Mar10 14May10 | None | | None | | 2.7.1.2.2.1[FS] | 2.7.1.2.2.4[FS] |
| 2.7.1.2.2.4 | Write and perform tests for enhanced first release | Complete | 20d | 19Apr10 01Mar11 | 17May10 14Jun10 | None | | None | | 2.7.1.2.2.3[FS]; 2.7.1.2.2.2[FS] | 2.7.1.2.2.5[FS] |
| 2.7.1.2.2.5 | Message passing system ready - enhanced first release | Complete | 0 | 30Mar12 30Mar12 | 14Jun10 14Jun10 | None | | None | | 2.7.1.2.2.4[FS] | 2.7.3.6.6[FS]; 2.7.1.2.1.1[FS] |
| 2.7.1.3 | Run Control System | In Progress | 894d | 15Feb10 30Aug13 | 04Feb10 27Jun11 | None | | None | | | |
| 2.7.1.3.1 | Run Control System-Second Release | In Progress | 858d | 15Feb10 11Jul13 | 04Feb10 27Jul10 | None | | None | | | |
| 2.7.1.3.1.1 | Develop run control multi-host support | Complete | 40d | 15Mar10 29Sep10 | 04Mar10 28Apr10 | None | | None | | 2.7.1.3.1.11[FS] | 2.7.1.3.1.2[SS]; 2.7.3.2.1[FS] |
| 2.7.1.3.1.2 | Update command line interface for multi-host support | Complete | 20d | 15Mar10 29Sep10 | 04Mar10 31Mar10 | None | | None | | 2.7.1.3.1.1[SS] | 2.7.1.3.1.6[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.3.1.3 | Develop initial run control GUI | Complete | 40d | 22Feb10 31Aug10 | 04Feb10 31Mar10 | None | | None | | 2.7.1.3.1.11[SS] | 2.7.1.3.1.4[FS] |
| 2.7.1.3.1.4 | Run control system framework integration with databases | Complete | 20d | 22Apr10 29Sep10 | 01Apr10 28Apr10 | None | | None | | 2.7.1.3.1.3[FS] | 2.7.1.3.1.6[FS] |
| 2.7.1.3.1.5 | Run control system support for data & error loggers | Complete | 20d | 29Apr10 29Sep10 | 04Mar10 31Mar10 | None | | None | | 2.7.1.3.1.11[FS] | 2.7.1.3.1.6[FS] |
| 2.7.1.3.1.6 | Update run control system test and verification suite for second release | Complete | 30d | 15Mar10 01Dec10 | 29Apr10 10Jun10 | None | | None | | 2.7.1.3.1.4[FS]; 2.7.1.3.1.5[FS]; 2.7.1.3.1.2[FS] | 2.7.1.3.1.8[SS+10d]; 2.7.1.3.1.7[FS] |
| 2.7.1.3.1.7 | Update run control system user documentation for second release | Complete | 5d | 07Jun10 29Dec11 | 11Jun10 17Jun10 | None | | None | | 2.7.1.3.1.6[FS]; 2.7.1.3.1.13[FS]; 2.7.1.3.1.12[FS] | 2.7.1.3.1.9[FS] |
| 2.7.1.3.1.8 | Perform run control system tests and verification for second release | Complete | 4d | 01Apr10 20Dec10 | 13May10 18May10 | None | | None | | 2.7.1.3.1.6[SS+10d] | 2.7.1.3.1.9[FS] |
| 2.7.1.3.1.9 | Review run control system software, tests and documentation for second release | Planned | 8d | 01Jul13 11Jul13 | 18Jun10 29Jun10 | None | | None | | 2.7.1.3.1.8[FS]; 2.7.1.3.1.7[FS] | 2.7.1.3.1.10[FS] |
| 2.7.1.3.1.10 | Run control system for software second release | Planned | 0 | 11Jul13 11Jul13 | 29Jun10 29Jun10 | None | | None | | 2.7.1.3.1.16[FS]; 2.7.1.3.1.9[FS] | 2.7.1.3.2.1[FS] |
| 2.7.1.3.1.11 | Update state model | Complete | 20d | 15Feb10 31Aug10 | 04Feb10 03Mar10 | None | | None | | 1.7.1.4.4.7[FS] | 2.7.1.3.1.3[SS]; 2.7.1.3.1.1[FS]; 2.7.1.3.1.5[FS]; 2.7.1.3.1.12[SS+20d] |
| 2.7.1.3.1.12 | Update system-wide state model | Complete | 45d | 15Mar10 31Aug10 | 01Mar10 30Apr10 | None | | None | | 2.7.1.3.1.11[SS+20d] | 2.7.1.3.1.13[SS+20d]; 2.7.1.3.1.7[FS] |
| 2.7.1.3.1.13 | Develop resource management | Complete | 40d | 06May10 20Dec10 | 29Mar10 21May10 | None | | None | | 2.7.1.3.1.12[SS+20d] | 2.7.1.3.1.14[SS]; 2.7.1.3.1.7[FS] |
| 2.7.1.3.1.14 | Design configuration management system | Complete | 10d | 03May10 31Jan11 | 03May10 14May10 | None | | None | | 2.7.1.3.1.13[SS] | 2.7.1.3.1.15[FS] |
| 2.7.1.3.1.15 | Implement configuration management system | Complete | 40d | 15Jun10 01May13 | 17May10 13Jul10 | None | | None | | 2.7.1.3.1.14[FS] | |
| 2.7.1.3.1.16 | Provide run control receiver library | Complete | 60d | 01Apr10 30Jun10 | 01Apr10 24Jun10 | None | | None | | | 2.7.1.3.1.10[FS] |
| 2.7.1.3.1.17 | Assist developers with state model implementation | Complete | 60d | 03May10 31Aug10 | 03May10 27Jul10 | None | | None | | | |
| 2.7.1.3.2 | Run Control System-Third Release | In Progress | 692d | 01Dec10 30Aug13 | 01Dec10 27Jun11 | None | | None | | | |
| 2.7.1.3.2.1 | Run control system support for detector partitioning | Complete | 80d | 01Dec10 29Dec11 | 01Dec10 28Mar11 | None | | None | | 2.7.1.3.1.10[FS] | 2.7.1.3.2.2[FS]; 2.7.1.3.2.7[SS] |
| 2.7.1.3.2.2 | Update run control system test and verification suite for third release | Complete | 40d | 01Sep11 28Feb13 | 29Mar11 23May11 | None | | None | | 2.7.1.3.2.1[FS] | 2.7.1.3.2.3[SS]; 2.7.1.3.2.4[FS] |
| 2.7.1.3.2.3 | Update run control system user documentation for third release | Planned | 20d | 12Jul13 08Aug13 | 29Mar11 25Apr11 | None | | None | | 2.7.1.3.2.2[SS] | 2.7.1.3.2.5[FS] |
| 2.7.1.3.2.4 | Perform run control system tests and verification for third release | Complete | 8d | 01Sep11 28Feb13 | 24May11 03Jun11 | None | | None | | 2.7.1.3.2.2[FS] | 2.7.1.4.3.1[FS]; 2.7.1.3.2.5[FS] |
| 2.7.1.3.2.5 | Review run control system software, tests and documentation for third release | Planned | 16d | 09Aug13 30Aug13 | 06Jun11 27Jun11 | None | | None | | 2.7.1.3.2.3[FS]; 2.7.1.3.2.4[FS] | 2.7.1.3.2.6[FS] |
| 2.7.1.3.2.6 | Run control system third release | Planned | 0 | 30Aug13 30Aug13 | 27Jun11 27Jun11 | None | | None | | 2.7.1.3.2.5[FS] | 2.7.3.2.3[FS]; 2.7.1.11[FS] |
| 2.7.1.3.2.7 | Run control expert consultation - third release | Complete | 144d | 01Dec10 31May12 | 01Dec10 27Jun11 | None | | None | | 2.7.1.3.2.1[SS] | |
| 2.7.1.4 | Event Buffer Farm Software | In Progress | 736d | 01Feb11 06Jan14 | 01Feb11 12Oct11 | None | | None | | | |
| 2.7.1.4.1 | Event Buffer Farm Core Software-Second Release | In Progress | 624d | 01Feb11 23Jul13 | 01Feb11 28Apr11 | None | | None | | | |
| 2.7.1.4.1.1 | Develop process management watchdogs and master | In Progress | 40d | 01Feb11 02Jul13 | 01Feb11 28Mar11 | None | | None | | 1.7.1.6.3.1.13[FS] | 2.7.1.4.1.2[FS] |
| 2.7.1.4.1.2 | Update event buffer farm core software test and verification suite for second release | In Progress | 10d | 02Apr12 03Jul13 | 29Mar11 11Apr11 | None | | None | | 2.7.1.4.1.1[FS] | 2.7.1.4.1.3[FS]; 2.7.1.4.1.4[FS] |
| 2.7.1.4.1.3 | Update event buffer farm core software user documentation for second release | Planned | 5d | 05Jul13 11Jul13 | 12Apr11 18Apr11 | None | | None | | 2.7.1.4.1.2[FS] | 2.7.1.4.1.5[FS] |
| 2.7.1.4.1.4 | Perform event buffer farm core software tests and verification for second release | In Progress | 4d | 02Apr12 05Jul13 | 12Apr11 15Apr11 | None | | None | | 2.7.1.4.1.2[FS] | 2.7.1.4.1.5[FS] |
| 2.7.1.4.1.5 | Review event buffer farm core software, tests and documentation for second release | Planned | 8d | 12Jul13 23Jul13 | 19Apr11 28Apr11 | None | | None | | 2.7.1.4.1.3[FS]; 2.7.1.4.1.4[FS] | 2.7.1.4.1.6[FS]; 2.7.1.4.2.1[FS] |
| 2.7.1.4.1.6 | Event buffer farm core software for software second release | Planned | 0 | 23Jul13 23Jul13 | 28Apr11 28Apr11 | None | | None | | 2.7.1.4.1.5[FS] | 2.7.1.4.2.1[FS] |
| 2.7.1.4.2 | Event Buffer Farm Server-Second Release | In Progress | 565d | 16May11 13Aug13 | 29Apr11 29Jun11 | None | | None | | | |
| 2.7.1.4.2.1 | Update event buffer farm server for software second release | Complete | 20d | 16May11 16Nov11 | 29Apr11 26May11 | None | | None | | 2.7.1.4.1.5[FS]; 2.7.1.4.1.6[FS] | 2.7.1.4.2.2[FS] |
| 2.7.1.4.2.2 | Write event buffer farm server test and verification suite for software second release | In Progress | 10d | 01Nov11 25Jul13 | 27May11 10Jun11 | None | | None | | 2.7.1.4.2.1[FS] | 2.7.1.4.2.3[FS]; 2.7.1.4.2.4[FS] |
| 2.7.1.4.2.3 | Write event buffer farm server user documentation for software second release | Planned | 5d | 26Jul13 01Aug13 | 13Jun11 17Jun11 | None | | None | | 2.7.1.4.2.2[FS] | 2.7.1.4.2.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.4.2.4 | Perform event buffer farm server tests and verification for software second release | In Progress | 4d | 08Dec11 26Jul13 | 13Jun11 16Jun11 | None | | None | | 2.7.1.4.2.2[FS] | 2.7.1.4.2.5[FS] |
| 2.7.1.4.2.5 | Review event buffer farm server, tests and documentation for software second release | Planned | 8d | 02Aug13 13Aug13 | 20Jun11 29Jun11 | None | | None | | 2.7.1.4.2.3[FS]; 2.7.1.4.2.4[FS] | 2.7.1.4.2.6[FS] |
| 2.7.1.4.2.6 | Event buffer farm server for software second release | Planned | 0 | 13Aug13 13Aug13 | 29Jun11 29Jun11 | None | | None | | 2.7.1.4.2.5[FS] | 2.7.1.4.3.1[FS]; 2.7.1.10.4.2.1.1[FS] |
| 2.7.1.4.3 | Event Buffer Farm Server-Third Release | Planned | 48d | 14Aug13 21Oct13 | 30Jun11 07Sep11 | None | | None | | | |
| 2.7.1.4.3.1 | Update event buffer farm server for software third release | Planned | 20d | 14Aug13 11Sep13 | 30Jun11 28Jul11 | None | | None | | 2.7.1.4.2.6[FS]; 2.7.1.3.2.4[FS] | 2.7.1.4.3.2[FS] |
| 2.7.1.4.3.2 | Write event buffer farm server test and verification suite for software third release | Planned | 10d | 12Sep13 25Sep13 | 29Jul11 11Aug11 | None | | None | | 2.7.1.4.3.1[FS] | 2.7.1.4.3.3[FS]; 2.7.1.4.3.4[FS] |
| 2.7.1.4.3.3 | Write event buffer farm server user documentation for software third release | Planned | 10d | 26Sep13 09Oct13 | 12Aug11 25Aug11 | None | | None | | 2.7.1.4.3.2[FS] | 2.7.1.4.3.5[FS] |
| 2.7.1.4.3.4 | Perform event buffer farm server tests and verification for software third release | Planned | 4d | 26Sep13 01Oct13 | 12Aug11 17Aug11 | None | | None | | 2.7.1.4.3.2[FS] | 2.7.1.4.3.5[FS] |
| 2.7.1.4.3.5 | Review event buffer farm server, tests and documentation for software third release | Planned | 8d | 10Oct13 21Oct13 | 26Aug11 07Sep11 | None | | None | | 2.7.1.4.3.4[FS]; 2.7.1.4.3.3[FS] | 2.7.1.4.3.6[FS] |
| 2.7.1.4.3.6 | Event buffer farm server for software third release | Planned | 0 | 21Oct13 21Oct13 | 07Sep11 07Sep11 | None | | None | | 2.7.1.4.3.5[FS] | 2.7.1.11[FS] |
| 2.7.1.4.4 | DCM Application-Second Release | In Progress | 736d | 01Feb11 06Jan14 | 01Feb11 12Oct11 | None | | None | | | |
| 2.7.1.4.4.1 | Debug DCM data flow for 1st release | Complete | 45d | 01Feb11 29Jul11 | 01Feb11 04Apr11 | None | | None | | 1.7.1.6.4.1.6[FS] | 2.7.1.4.4.3[SS+10d]; 2.7.1.4.4.5[FS]; 2.7.1.4.4.2[SS+10d]; 2.7.1.4.4.7[FS]; 2.7.1.4.4.4[FS]; 2.7.1.4.4.6[FS] |
| 2.7.1.4.4.2 | Write and perform tests-2nd release | In Progress | 126d | 15Feb11 15Jul13 | 15Feb11 11Aug11 | None | | None | | 2.7.1.4.4.1[SS+10d] | 2.7.1.4.4.8[FS] |
| 2.7.1.4.4.3 | Define and implement error status codes for run control | In Progress | 126d | 15Feb11 11Jul13 | 15Feb11 11Aug11 | None | | None | | 2.7.1.4.4.1[SS+10d] | 2.7.1.4.4.8[FS] |
| 2.7.1.4.4.4 | Implement monitoring and reporting of hardware error codes | In Progress | 126d | 01Apr11 05Jul13 | 05Apr11 30Sep11 | None | | None | | 2.7.1.4.4.1[FS] | 2.7.1.4.4.8[FS]; 2.7.1.11[FS] |
| 2.7.1.4.4.5 | Implement upgrades for far detector data rates | In Progress | 126d | 01Mar11 15Jul13 | 05Apr11 30Sep11 | None | | None | | 2.7.1.4.4.1[FS] | 2.7.1.4.4.8[FS] |
| 2.7.1.4.4.6 | Debug data flow for 2nd release | In Progress | 126d | 03Oct11 30Jul13 | 05Apr11 30Sep11 | None | | None | | 2.7.1.4.4.1[FS] | 2.7.1.4.4.8[FS] |
| 2.7.1.4.4.7 | Update DCM application user documentation-2nd release | In Progress | 126d | 11Jul11 19Dec13 | 05Apr11 30Sep11 | None | | None | | 2.7.1.4.4.1[FS] | 2.7.1.4.4.8[FS] |
| 2.7.1.4.4.8 | Review software, tests, and documentation for DCM application-2nd release | Planned | 8d | 20Dec13 06Jan14 | 03Oct11 12Oct11 | None | | None | | 2.7.1.4.4.7[FS]; 2.7.1.4.4.5[FS]; 2.7.1.4.4.6[FS]; 2.7.1.4.4.4[FS]; 2.7.1.4.4.3[FS]; 2.7.1.4.4.2[FS] | 2.7.1.4.4.9[FS] |
| 2.7.1.4.4.9 | DCM Application-Second Release Completed | Planned | 0 | 06Jan14 06Jan14 | 12Oct11 12Oct11 | None | | None | | 2.7.1.4.4.8[FS] | 2.7.1.11[FS] |
| 2.7.1.5 | Data Logger | In Progress | 879d | 29Jan10 25Jul13 | 01Oct09 21Jul10 | None | | None | | | |
| 2.7.1.5.1 | Develop initial data logging server (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 01Oct09 25Nov09 | None | | None | | 1.7.1.7.2.3[FS] | 2.7.1.5.2[FS] |
| 2.7.1.5.2 | Integrate error handling and monitoring support in the data logger (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 30Nov09 29Dec09 | None | | None | | 2.7.1.5.1[FS]; 1.7.1.2.4.2[FS] | 2.7.1.5.3[FS] |
| 2.7.1.5.3 | Integrate run control support in the data logger (OBSOLETE) | Complete | 1d | 29Jan10 29Jan10 | 30Dec09 14Jan10 | None | | None | | 1.7.1.4.4.1[FS]; 2.7.1.5.2[FS]; 1.7.1.4.4.8[FS] | |
| 2.7.1.5.4 | Write data logger server test and verification suite for first release | In Progress | 20d | 01Jul10 15Jul13 | 04Jun10 01Jul10 | None | | None | | 2.7.1.5.11[FS]; 2.7.1.5.12[FS] | 2.7.1.5.5[FS]; 2.7.1.5.6[FS] |
| 2.7.1.5.5 | Write data logger server user documentation for software first release | In Progress | 5d | 05Oct10 16Jul13 | 02Jul10 09Jul10 | None | | None | | 2.7.1.5.4[FS] | 2.7.1.5.7[FS] |
| 2.7.1.5.6 | Perform data logger server tests and verification for software first release | In Progress | 4d | 01Jul10 16Jul13 | 02Jul10 08Jul10 | None | | None | | 2.7.1.5.4[FS] | 2.7.1.5.7[FS] |
| 2.7.1.5.7 | Review data logger server, tests and documentation for software first release | In Progress | 8d | 11Jul11 25Jul13 | 12Jul10 21Jul10 | None | | None | | 2.7.1.5.5[FS]; 2.7.1.5.6[FS] | 2.7.1.5.8[FS] |
| 2.7.1.5.8 | Data logger server for software first release | Planned | 0 | 25Jul13 25Jul13 | 21Jul10 21Jul10 | None | | None | | 2.7.1.5.7[FS] | 1.7.7.4.6[FS]; 2.7.1.11[FS]; 1.7.7.2.1.10[FS]; 1.7.7.2.1.8[FS]; 1.7.7.2.1.12[FS] |
| 2.7.1.5.9 | Develop initial data logger - replacement effort | Complete | 40d | 11Feb10 31Aug10 | 11Feb10 07Apr10 | None | | None | | 1.7.1.7.2.3[FS] | 2.7.1.5.10[FS] |
| 2.7.1.5.10 | Integrate error handling and monitoring support in the data logger - replacement effort, part 1 | Complete | 20d | 07Jun10 31Aug10 | 08Apr10 05May10 | None | | None | | 1.7.1.2.4.2[FS]; 2.7.1.5.9[FS] | 2.7.1.5.11[FS]; 2.7.1.5.12[FS] |
| 2.7.1.5.11 | Integrate run control support in the data logger - replacement effort | Complete | 20d | 07Jun10 29Sep10 | 06May10 03Jun10 | None | | None | | 2.7.1.5.10[FS]; 1.7.1.4.4.8[FS] | 2.7.1.5.4[FS] |
| 2.7.1.5.12 | Integrate error handling and monitoring support in the data logger - replacement effort, part 2 | In Progress | 20d | 01Feb11 05Jul13 | 06May10 03Jun10 | None | | None | | 2.7.1.5.10[FS] | 2.7.1.5.4[FS] |
| 2.7.1.6 | Data File Transfer System | In Progress | 1051d | 06May09 11Jul13 | 28Jan10 18May11 | None | | None | | | |
| 2.7.1.6.1 | Data File Transfer System Requirements | Complete | 455d | 06May09 28Feb11 | 28Jan10 22Jul10 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.6.1.1 | Data file transfer system requirements document draft | Complete | 20d | 06May09 20May09 | 14Jun10 12Jul10 | None | | None | | | 2.7.1.6.1.2[FS] |
| 2.7.1.6.1.2 | Review data file transfer system requirements document | Complete | 8d | 21May09 28May09 | 13Jul10 22Jul10 | None | | None | | 2.7.1.6.1.1[FS] | 2.7.1.6.12[FS]; 2.7.1.6.1.3[FS] |
| 2.7.1.6.1.3 | Finalize data file transfer system requirements document | Complete | 16d | 01Mar10 28Feb11 | 28Jan10 18Feb10 | None | | None | | 2.7.1.6.1.2[FS] | 2.7.1.6.2.1[FS] |
| 2.7.1.6.2 | Data File Transfer System Design | Complete | 678d | 26Mar10 03Dec12 | 19Feb10 09Apr10 | None | | None | | | |
| 2.7.1.6.2.1 | Data file transfer system design document draft | Complete | 20d | 26Mar10 30Mar11 | 19Feb10 18Mar10 | None | | None | | 2.7.1.6.1.3[FS] | 2.7.1.6.2.2[FS] |
| 2.7.1.6.2.2 | Review data file transfer system design document | Complete | 8d | 01Apr11 11Apr11 | 19Mar10 30Mar10 | None | | None | | 2.7.1.6.2.1[FS] | 2.7.1.6.2.3[FS] |
| 2.7.1.6.2.3 | Finalize data file transfer system design document | Complete | 8d | 03Dec12 03Dec12 | 31Mar10 09Apr10 | None | | None | | 2.7.1.6.2.2[FS] | 2.7.1.6.3[FS] |
| 2.7.1.6.3 | Develop initial data file transfer agent | Complete | 10d | 15Apr10 28Oct10 | 12Apr10 23Apr10 | None | | None | | 2.7.1.6.2.3[FS] | 2.7.1.6.6[FS]; 2.7.1.6.5[FS]; 2.7.1.6.4[FS] |
| 2.7.1.6.4 | Integrate transfer agent with the mass storage system | Complete | 20d | 26May10 28Oct10 | 26Apr10 21May10 | None | | None | | 2.7.1.6.3[FS] | |
| 2.7.1.6.5 | Integrate data file transfer system with the error handling and monitoring systems | Complete | 20d | 30Apr10 20Feb12 | 26Apr10 21May10 | None | | None | | 2.7.1.6.12[FS]; 2.7.1.6.3[FS] | |
| 2.7.1.6.6 | Integrate data file transfer system with run control | Complete | 20d | 02May11 30Sep11 | 26Apr10 21May10 | None | | None | | 2.7.1.6.3[FS] | 2.7.1.6.7[FS] |
| 2.7.1.6.7 | Write data file transfer system test and verification suite for software first release | Complete | 10d | 01Sep11 30Sep11 | 24May10 07Jun10 | None | | None | | 2.7.1.6.6[FS] | 2.7.1.6.8[FS]; 2.7.1.6.9[FS] |
| 2.7.1.6.8 | Write data file transfer system user documentation for software first release | Complete | 10d | 01Sep10 28Dec12 | 08Jun10 21Jun10 | None | | None | | 2.7.1.6.7[FS] | 2.7.1.6.10[FS] |
| 2.7.1.6.9 | Perform data file transfer system tests and verification for software first release | Complete | 4d | 19Jul10 01May12 | 08Jun10 11Jun10 | None | | None | | 2.7.1.6.7[FS] | 2.7.1.6.10[FS] |
| 2.7.1.6.10 | Review data file transfer system, tests and documentation for software first release | Planned | 8d | 01Jul13 11Jul13 | 22Jun10 01Jul10 | None | | None | | 2.7.1.6.9[FS]; 2.7.1.6.8[FS] | 2.7.1.6.11[FS] |
| 2.7.1.6.11 | Data file transfer system for software first release | Planned | 0 | 11Jul13 11Jul13 | 01Jul10 01Jul10 | None | | None | | 2.7.1.6.10[FS] | 2.7.3.2.2[FS]; 1.7.7.4.7[FS]; 2.7.1.11[FS]; 1.7.7.2.1.11[FS] |
| 2.7.1.6.12 | Improve data handling and error checking robustness | Complete | 45d | 17Mar11 30Jun11 | 17Mar11 18May11 | None | | None | | 2.7.1.6.1.2[FS] | 2.7.1.6.5[FS] |
| 2.7.1.7 | DAQ Monitor System | In Progress | 986d | 01Sep09 05Aug13 | 01Dec09 21Sep10 | None | | None | | | |
| 2.7.1.7.1 | Develop framework code for DAQ monitoring systems | Complete | 40d | 01Sep09 29Dec09 | 02Mar10 26Apr10 | None | | None | | | 2.7.1.7.3[FS]; 2.7.1.7.2[FS]; 2.7.1.7.4[FS]; 2.7.1.7.5[FS]; 2.7.1.7.12[FS] |
| 2.7.1.7.2 | Integrate DAQ monitoring framework with the message passing system | Complete | 15d | 19Jan10 04Oct10 | 19Jan10 08Feb10 | None | | None | | 2.7.1.7.1[FS]; 2.7.1.7.12[FS]; 1.7.1.3.4.2[FS] | |
| 2.7.1.7.3 | Integrate DAQ monitoring framework with the error handling system | Complete | 10d | 01Nov11 15Nov11 | 01Mar10 12Mar10 | None | | None | | 2.7.1.7.1[FS]; 1.7.1.2.4.2[FS]; 2.7.1.7.12[FS] | |
| 2.7.1.7.4 | Develop generic GUI framework for the DAQ monitoring system | In Progress | 50d | 04Oct10 02Jul13 | 13Jul10 21Sep10 | None | | None | | 2.7.1.7.1[FS]; 2.7.1.7.12[FS] | |
| 2.7.1.7.5 | Integrate DAQ monitoring framework with the online monitoring database system | Complete | 25d | 19Jan10 01Jun10 | 19Jan10 22Feb10 | None | | None | | 2.7.1.7.1[FS]; 2.7.1.7.12[FS] | 2.7.1.7.6[FS] |
| 2.7.1.7.6 | Develop DAQ monitoring application | In Progress | 25d | 01Feb10 02Jul13 | 23Feb10 29Mar10 | None | | None | | 2.7.1.7.5[FS] | 2.7.1.7.7[FS] |
| 2.7.1.7.7 | Write DAQ monitoring system test and verification suite for software first release | In Progress | 30d | 01Feb10 16Jul13 | 30Mar10 10May10 | None | | None | | 2.7.1.7.6[FS] | 2.7.1.7.8[FS]; 2.7.1.7.9[FS] |
| 2.7.1.7.8 | Write DAQ monitoring system user documentation for software first release | In Progress | 15d | 17May10 22Jul13 | 11May10 01Jun10 | None | | None | | 2.7.1.7.7[FS] | 2.7.1.7.10[FS] |
| 2.7.1.7.9 | Perform DAQ monitoring system tests and verification for software first release | In Progress | 5d | 01Nov10 17Jul13 | 11May10 17May10 | None | | None | | 2.7.1.7.7[FS] | 2.7.1.7.10[FS] |
| 2.7.1.7.10 | Review DAQ monitoring system, tests and documentation for software first release | Planned | 10d | 23Jul13 05Aug13 | 02Jun10 15Jun10 | None | | None | | 2.7.1.7.8[FS]; 2.7.1.7.9[FS] | 2.7.1.7.11[FS] |
| 2.7.1.7.11 | DAQ monitoring system for software first release | Planned | 0 | 05Aug13 05Aug13 | 15Jun10 15Jun10 | None | | None | | 2.7.1.7.10[FS] | 2.7.1.11[FS]; 1.7.7.4.4[FS] |
| 2.7.1.7.12 | Develop framework code for DAQ monitoring systems-Part 2 | In Progress | 30d | 04Jan10 01Jul13 | 01Dec09 15Jan10 | None | | None | | 2.7.1.7.1[FS] | 2.7.1.7.3[FS]; 2.7.1.7.5[FS]; 2.7.1.7.4[FS]; 2.7.1.7.2[FS] |
| 2.7.1.8 | Event Monitor System | In Progress | 1144d | 20May09 06Dec13 | 09Feb11 11Jun12 | None | | None | | | |
| 2.7.1.8.1 | Event Monitor System Requirements | Complete | 30d | 20May09 01Jul09 | 09Feb11 27Apr11 | None | | None | | | |
| 2.7.1.8.1.1 | Event monitor system requirements document draft | Complete | 40d | 20May09 02Jun09 | 09Feb11 05Apr11 | None | | None | | 2.7.1.9.14[FS] | 2.7.1.8.1.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.8.1.2 | Review event monitor system requirements document | Complete | 8d | 01Jun09 15Jun09 | 06Apr11 15Apr11 | None | | None | | 2.7.1.8.1.1[FS] | 2.7.1.8.1.3[FS] |
| 2.7.1.8.1.3 | Finalize event monitor system requirements document | Complete | 8d | 15Jun09 01Jul09 | 18Apr11 27Apr11 | None | | None | | 2.7.1.8.1.2[FS] | 2.7.1.8.2.1[FS] |
| 2.7.1.8.2 | Event Monitor System Design | Complete | 862d | 30Jun09 03Dec12 | 28Apr11 18Jul11 | None | | None | | | |
| 2.7.1.8.2.1 | Event monitor system design document draft | Complete | 40d | 30Jun09 30Jul09 | 28Apr11 23Jun11 | None | | None | | 2.7.1.8.1.3[FS] | 2.7.1.8.2.2[FS] |
| 2.7.1.8.2.2 | Review event monitor system design document | Complete | 8d | 05Aug09 03Dec12 | 24Jun11 06Jul11 | None | | None | | 2.7.1.8.2.1[FS] | 2.7.1.8.2.3[FS] |
| 2.7.1.8.2.3 | Finalize event monitor system design document | Complete | 8d | 01Nov12 01Nov12 | 07Jul11 18Jul11 | None | | None | | 2.7.1.8.2.2[FS] | 2.7.1.8.3.1[FS] |
| 2.7.1.8.3 | Event Monitor Software and Development Languages Evaluation | Complete | 712d | 03Aug09 01Jun12 | 19Jul11 21Oct11 | None | | None | | | |
| 2.7.1.8.3.1 | Find candidates for event monitor software and development languages | Complete | 20d | 03Aug09 30Nov10 | 19Jul11 15Aug11 | None | | None | | 2.7.1.8.2.3[FS] | 2.7.1.8.3.2[FS] |
| 2.7.1.8.3.2 | Evaluate event monitor software and development languages | Complete | 40d | 03Aug09 30Nov10 | 16Aug11 11Oct11 | None | | None | | 2.7.1.8.3.1[FS] | 2.7.1.8.3.3[FS] |
| 2.7.1.8.3.3 | Review event monitor software and development languages evaluations | Complete | 8d | 01Jun12 01Jun12 | 12Oct11 21Oct11 | None | | None | | 2.7.1.8.3.2[FS] | 2.7.1.8.4[FS] |
| 2.7.1.8.4 | Develop framework code for event monitoring software | Complete | 40d | 01Nov10 30Nov10 | 24Oct11 20Dec11 | None | | None | | 2.7.1.8.3.3[FS] | 2.7.1.8.5[FS]; 2.7.1.8.8[FS]; 2.7.1.8.6[FS]; 2.7.1.8.7[FS] |
| 2.7.1.8.5 | Integrate event monitoring framework with the message passing system | Planned | 20d | 23Sep13 18Oct13 | 21Dec11 24Jan12 | None | | None | | 2.7.1.8.4[FS] | |
| 2.7.1.8.6 | Integrate event monitoring framework with the error handling system | Planned | 20d | 23Sep13 18Oct13 | 21Dec11 24Jan12 | None | | None | | 2.7.1.8.4[FS] | |
| 2.7.1.8.7 | Develop generic GUI framework for the event monitoring system | Complete | 40d | 01Nov10 30Nov10 | 21Dec11 21Feb12 | None | | None | | 2.7.1.8.4[FS] | |
| 2.7.1.8.8 | Integrate event monitoring framework with the online monitoring database system | Planned | 40d | 23Sep13 15Nov13 | 21Dec11 21Feb12 | None | | None | | 2.7.1.8.4[FS] | 2.7.1.8.9[FS] |
| 2.7.1.8.9 | Develop event monitoring application | Complete | 40d | 01Nov10 30Nov12 | 22Feb12 17Apr12 | None | | None | | 2.7.1.8.8[FS] | 2.7.1.8.10[FS] |
| 2.7.1.8.10 | Update event monitoring system test and verification suite for software first release | Complete | 20d | 01Jun12 30Nov12 | 18Apr12 15May12 | None | | None | | 2.7.1.8.9[FS] | 2.7.1.8.11[FS]; 2.7.1.8.12[FS] |
| 2.7.1.8.11 | Update event monitoring system user documentation for software first release | In Progress | 10d | 03Dec12 22Nov13 | 16May12 30May12 | None | | None | | 2.7.1.8.10[FS] | 2.7.1.8.13[FS] |
| 2.7.1.8.12 | Perform event monitoring system tests and verification for software first release | In Progress | 4d | 01Jun12 18Nov13 | 16May12 21May12 | None | | None | | 2.7.1.8.10[FS] | 2.7.1.8.13[FS] |
| 2.7.1.8.13 | Review event monitoring system, tests and documentation for software first release | Planned | 8d | 25Nov13 06Dec13 | 31May12 11Jun12 | None | | None | | 2.7.1.8.12[FS]; 2.7.1.8.11[FS] | 2.7.1.8.14[FS] |
| 2.7.1.8.14 | Event monitoring system for software first release | Planned | 0 | 06Dec13 06Dec13 | 11Jun12 11Jun12 | None | | None | | 2.7.1.8.13[FS] | 2.7.1.11[FS]; 1.7.7.4.5[FS] |
| 2.7.1.9 | Event Display System | In Progress | 1084d | 01Jun09 20Sep13 | 01Oct09 08Feb11 | None | | None | | | |
| 2.7.1.9.1 | Event Display System Requirements | Complete | 23d | 01Jun09 01Jul09 | 01Oct09 21Dec09 | None | | None | | | |
| 2.7.1.9.1.1 | Event display system requirements document draft | Complete | 40d | 01Jun09 02Jun09 | 01Oct09 25Nov09 | None | | None | | | 2.7.1.9.1.2[FS] |
| 2.7.1.9.1.2 | Review event display system requirements document | Complete | 8d | 02Jun09 15Jun09 | 30Nov09 09Dec09 | None | | None | | 2.7.1.9.1.1[FS] | 2.7.1.9.1.3[FS] |
| 2.7.1.9.1.3 | Finalize event display system requirements document | Complete | 8d | 16Jun09 01Jul09 | 10Dec09 21Dec09 | None | | None | | 2.7.1.9.1.2[FS] | 2.7.1.9.2.1[FS] |
| 2.7.1.9.2 | Event Display System Design | Complete | 862d | 30Jun09 03Dec12 | 22Dec09 16Mar10 | None | | None | | | |
| 2.7.1.9.2.1 | Event display system design document draft | Complete | 40d | 30Jun09 30Jul09 | 22Dec09 22Feb10 | None | | None | | 2.7.1.9.1.3[FS] | 2.7.1.9.2.2[FS] |
| 2.7.1.9.2.2 | Review event display system design document | Complete | 8d | 05Aug09 10Sep09 | 23Feb10 04Mar10 | None | | None | | 2.7.1.9.2.1[FS] | 2.7.1.9.2.3[FS] |
| 2.7.1.9.2.3 | Finalize event display system design document | Complete | 8d | 03Dec12 03Dec12 | 05Mar10 16Mar10 | None | | None | | 2.7.1.9.2.2[FS] | 2.7.1.9.3.1[FS] |
| 2.7.1.9.3 | Event Display Software and Development Languages Evaluation | Complete | 167d | 03Aug09 02Apr10 | 17Mar10 21Jun10 | None | | None | | | |
| 2.7.1.9.3.1 | Find candidates for event display software and development languages | Complete | 20d | 03Aug09 02Apr10 | 17Mar10 13Apr10 | None | | None | | 2.7.1.9.2.3[FS] | 2.7.1.9.3.2[FS] |
| 2.7.1.9.3.2 | Evaluate event display software and development languages | Complete | 40d | 02Apr10 02Apr10 | 14Apr10 09Jun10 | None | | None | | 2.7.1.9.3.1[FS] | 2.7.1.9.3.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.9.3.3 | Review event display software and development languages evaluations | Complete | 8d | 02Apr10 02Apr10 | 10Jun10 21Jun10 | None | | None | | 2.7.1.9.3.2[FS] | 2.7.1.9.4[FS] |
| 2.7.1.9.4 | Develop framework code for event display software | Complete | 40d | 01Jul10 23Jul10 | 22Jun10 17Aug10 | None | | None | | 2.7.1.9.3.3[FS] | 2.7.1.9.5[FS]; 2.7.1.9.6[FS]; 2.7.1.9.8[FS]; 2.7.1.9.7[FS] |
| 2.7.1.9.5 | Integrate event display framework with the message passing system | Planned | 20d | 01Jul13 29Jul13 | 18Aug10 15Sep10 | None | | None | | 2.7.1.9.4[FS] | |
| 2.7.1.9.6 | Integrate event display framework with the error handling system | Planned | 20d | 01Jul13 29Jul13 | 18Aug10 15Sep10 | None | | None | | 2.7.1.9.4[FS] | |
| 2.7.1.9.7 | Develop generic GUI framework for the event display software | Complete | 40d | 01Jul10 23Jul10 | 18Aug10 13Oct10 | None | | None | | 2.7.1.9.4[FS] | |
| 2.7.1.9.8 | Integrate event display framework with the online monitoring database system | Planned | 40d | 01Jul13 26Aug13 | 18Aug10 13Oct10 | None | | None | | 2.7.1.9.4[FS] | 2.7.1.9.9[FS] |
| 2.7.1.9.9 | Develop event display application | Complete | 40d | 01Jul10 15Sep11 | 14Oct10 10Dec10 | None | | None | | 2.7.1.9.8[FS] | 2.7.1.9.10[FS] |
| 2.7.1.9.10 | Write event display software test and verification suite for software second release | Complete | 20d | 01Nov12 01Nov12 | 13Dec10 12Jan11 | None | | None | | 2.7.1.9.9[FS] | 2.7.1.9.12[FS]; 2.7.1.9.11[FS] |
| 2.7.1.9.11 | Write event display software user documentation for software first release | Planned | 10d | 27Aug13 10Sep13 | 13Jan11 27Jan11 | None | | None | | 2.7.1.9.10[FS] | 2.7.1.9.13[FS] |
| 2.7.1.9.12 | Perform event display software tests and verification for software first release | In Progress | 4d | 01Nov12 27Aug13 | 13Jan11 19Jan11 | None | | None | | 2.7.1.9.10[FS] | 2.7.1.9.13[FS] |
| 2.7.1.9.13 | Review event display software, tests and documentation for software first release | Planned | 8d | 11Sep13 20Sep13 | 28Jan11 08Feb11 | None | | None | | 2.7.1.9.12[FS]; 2.7.1.9.11[FS] | 2.7.1.9.14[FS] |
| 2.7.1.9.14 | Event display software for software first release | Planned | 0 | 20Sep13 20Sep13 | 08Feb11 08Feb11 | None | | None | | 2.7.1.9.13[FS] | 2.7.1.11[FS]; 1.7.7.4.5[FS]; 2.7.1.8.1.1[FS] |
| 2.7.1.10 | Online Databases | In Progress | 1116d | 01Oct09 14Mar14 | 01Oct09 27Sep13 | None | | None | | | |
| 2.7.1.10.1 | General Online Database Administration and Support | In Progress | 1003d | 01Oct09 27Sep13 | 01Oct09 27Sep13 | None | | None | | | |
| 2.7.1.10.1.1 | General database administration and support - FY08 | Complete | 1d | 01Oct09 01Oct09 | 01Oct09 01Oct09 | None | | None | | | |
| 2.7.1.10.1.2 | General database administration and support - FY09 | Complete | 1d | 01Oct09 01Oct09 | 01Oct09 01Oct09 | None | | None | | | 2.7.1.10.1.3[FS] |
| 2.7.1.10.1.3 | General database administration and support - FY10 | Complete | 250d | 30Oct09 30Sep10 | 02Oct09 30Sep10 | None | | None | | 2.7.1.10.1.2[FS] | 2.7.1.10.1.4[FS] |
| 2.7.1.10.1.4 | General database administration and support - FY11 | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.1.10.1.3[FS] | 2.7.1.10.1.5[FS] |
| 2.7.1.10.1.5 | General database administration and support - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.1.10.1.4[FS] | 2.7.1.10.1.6[FS] |
| 2.7.1.10.1.6 | General database administration and support - FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.7.1.10.1.5[FS] | |
| 2.7.1.10.1.7 | Additional support for Nova hardware database application - FY10 | Complete | 106d | 03May10 30Sep10 | 03May10 30Sep10 | None | | None | | | |
| 2.7.1.10.1.8 | Additional support for Nova hardware database application - FY11 | Complete | 180d | 18Jan11 30Sep11 | 18Jan11 29Sep11 | None | | None | | | |
| 2.7.1.10.2 | Database Deployment to Integration | Complete | 15d | 01Feb10 19Feb10 | 01Oct09 21Oct09 | None | | None | | | |
| 2.7.1.10.2.1 | Deploy databases on integration server | Complete | 10d | 01Feb10 12Feb10 | 01Oct09 14Oct09 | None | | None | | 1.7.1.10.1.5.3[FS] | 2.7.1.10.2.2[FS] |
| 2.7.1.10.2.2 | Configure integration database servers | Complete | 5d | 15Feb10 19Feb10 | 15Oct09 21Oct09 | None | | None | | 2.7.1.10.2.1[FS] | 2.7.1.10.2.3[FS] |
| 2.7.1.10.2.3 | Release integration database servers for use | Complete | 0 | 19Feb10 19Feb10 | 21Oct09 21Oct09 | None | | None | | 2.7.1.10.2.2[FS] | 2.7.1.10.4.3.5[FS]; 2.7.1.10.4.1.5[FS]; 2.7.1.10.4.2.5[FS]; 2.7.1.10.3.1[FS]; 1.7.7.4.10[FS] |
| 2.7.1.10.3 | Database Deployment to Production | Complete | 15d | 01Feb10 19Feb10 | 22Oct09 11Nov09 | None | | None | | | |
| 2.7.1.10.3.1 | Deploy databases on production server | Complete | 10d | 01Feb10 12Feb10 | 22Oct09 04Nov09 | None | | None | | 2.7.1.10.2.3[FS] | 2.7.1.10.3.2[FS] |
| 2.7.1.10.3.2 | Configure production database servers | Complete | 5d | 15Feb10 19Feb10 | 05Nov09 11Nov09 | None | | None | | 2.7.1.10.3.1[FS] | 2.7.1.10.3.3[FS] |
| 2.7.1.10.3.3 | Release production database servers for use | Complete | 0 | 19Feb10 19Feb10 | 11Nov09 11Nov09 | None | | None | | 2.7.1.10.3.2[FS] | 2.7.1.10.4.1.7[FS]; 2.7.1.10.4.3.7[FS]; 2.7.1.10.4.2.7[FS] |
| 2.7.1.10.4 | Database Applications | In Progress | 993d | 01Apr10 14Mar14 | 01Apr10 18Nov11 | None | | None | | | |
| 2.7.1.10.4.1 | Online Calibration Database Application | In Progress | 218d | 01May13 14Mar14 | 13Jul10 23Aug11 | None | | None | | | |
| 2.7.1.10.4.1.1 | Online Calibration Application Specification | In Progress | 60d | 01May13 25Jul13 | 13Jul10 31Aug10 | None | | None | | | |
| 2.7.1.10.4.1.1.1 | Develop online calibration application specification | In Progress | 20d | 01May13 15Jul13 | 13Jul10 09Aug10 | None | | None | | 1.8.5.7.12[FS] | 2.7.1.10.4.1.1.2[FS] |
| 2.7.1.10.4.1.1.2 | Review online calibration application specification | In Progress | 8d | 01May13 19Jul13 | 10Aug10 19Aug10 | None | | None | | 2.7.1.10.4.1.1.1[FS] | 2.7.1.10.4.1.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.10.4.1.1.3 | Finalize online calibration application specification | In Progress | 8d | 01May13 25Jul13 | 20Aug10 31Aug10 | None | | None | | 2.7.1.10.4.1.1.2[FS] | 2.7.1.10.4.1.2.1[FS] |
| 2.7.1.10.4.1.2 | Design Online Calibration Application | In Progress | 78d | 01May13 20Aug13 | 01Sep10 21Oct10 | None | | None | | | |
| 2.7.1.10.4.1.2.1 | Online calibration application design document draft | In Progress | 20d | 01May13 08Aug13 | 01Sep10 29Sep10 | None | | None | | 2.7.1.10.4.1.1.3[FS] | 2.7.1.10.4.1.2.2[FS] |
| 2.7.1.10.4.1.2.2 | Review online calibration application design document | In Progress | 8d | 01May13 14Aug13 | 30Sep10 11Oct10 | None | | None | | 2.7.1.10.4.1.2.1[FS] | 2.7.1.10.4.1.2.3[FS] |
| 2.7.1.10.4.1.2.3 | Finalize online calibration application design document | In Progress | 8d | 01May13 20Aug13 | 12Oct10 21Oct10 | None | | None | | 2.7.1.10.4.1.2.2[FS] | 2.7.1.10.4.1.3[FS] |
| 2.7.1.10.4.1.3 | Prototype online calibration application and database access | In Progress | 40d | 01May13 18Sep13 | 22Oct10 20Dec10 | None | | None | | 2.7.1.10.4.1.2.3[FS]; 1.7.1.10.1.5.3[FS] | 2.7.1.10.4.1.4[FS] |
| 2.7.1.10.4.1.4 | Implement & test online calibration application in the development environment | In Progress | 60d | 01May13 30Oct13 | 21Dec10 15Apr11 | None | | None | | 2.7.1.10.4.1.3[FS] | 2.7.1.10.4.1.5[FS] |
| 2.7.1.10.4.1.5 | Implement online calibration application in the integration environment | Planned | 50d | 31Oct13 16Jan14 | 18Apr11 27Jun11 | None | | None | | 2.7.1.10.2.3[FS]; 2.7.1.10.4.1.4[FS] | 2.7.1.10.4.1.6[FS] |
| 2.7.1.10.4.1.6 | Update online calibration application | Planned | 40d | 17Jan14 14Mar14 | 28Jun11 23Aug11 | None | | None | | 2.7.1.10.4.1.5[FS] | 2.7.1.10.4.1.7[FS] |
| 2.7.1.10.4.1.7 | Deploy online calibration application in production environment | Planned | 0 | 14Mar14 14Mar14 | 23Aug11 23Aug11 | None | | None | | 2.7.1.10.3.3[FS]; 2.1.2.5.22[FS]; 2.7.1.10.4.1.6[FS]; 2.1.2.3.3[FS] | 2.10.9.1[FS] |
| 2.7.1.10.4.2 | Online Run History Database Application | Complete | 588d | 01Feb11 31May13 | 14Jun10 27May11 | None | | None | | | |
| 2.7.1.10.4.2.1 | Online Run History Application Specification | Complete | 22d | 01May13 31May13 | 14Jun10 03Aug10 | None | | None | | | |
| 2.7.1.10.4.2.1.1 | Develop online run history application specification | Complete | 20d | 01May13 31May13 | 14Jun10 12Jul10 | None | | None | | 2.7.1.4.2.6[FS] | 2.7.1.10.4.2.1.2[FS] |
| 2.7.1.10.4.2.1.2 | Review online run history application specification | Complete | 8d | 01May13 31May13 | 13Jul10 22Jul10 | None | | None | | 2.7.1.10.4.2.1.1[FS] | 2.7.1.10.4.2.1.3[FS] |
| 2.7.1.10.4.2.1.3 | Finalize online run history application specification | Complete | 8d | 01May13 31May13 | 23Jul10 03Aug10 | None | | None | | 2.7.1.10.4.2.1.2[FS] | |
| 2.7.1.10.4.2.2 | Online Run History Application Design | Complete | 22d | 01May13 31May13 | 04Aug10 21Oct10 | None | | None | | | |
| 2.7.1.10.4.2.2.1 | Online run history application design document draft | Complete | 40d | 01May13 31May13 | 04Aug10 29Sep10 | None | | None | | | 2.7.1.10.4.2.2.2[FS] |
| 2.7.1.10.4.2.2.2 | Review online run history application design document | Complete | 8d | 01May13 31May13 | 30Sep10 11Oct10 | None | | None | | 2.7.1.10.4.2.2.1[FS] | 2.7.1.10.4.2.2.3[FS] |
| 2.7.1.10.4.2.2.3 | Finalize online run history application design document | Complete | 8d | 01May13 31May13 | 12Oct10 21Oct10 | None | | None | | 2.7.1.10.4.2.2.2[FS] | 2.7.1.10.4.2.3[FS] |
| 2.7.1.10.4.2.3 | Prototype online run history application and database access | Complete | 40d | 01May13 31May13 | 22Oct10 20Dec10 | None | | None | | 2.7.1.10.4.2.2.3[FS]; 1.7.1.10.1.5.3[FS] | 2.7.1.10.4.2.4[FS] |
| 2.7.1.10.4.2.4 | Implement & test online run history application in the development environment | Complete | 20d | 01May13 31May13 | 21Dec10 21Jan11 | None | | None | | 2.7.1.10.4.2.3[FS] | 2.7.1.10.4.2.5[FS] |
| 2.7.1.10.4.2.5 | Implement online run history application in the integration environment | Complete | 50d | 01Feb11 07Feb11 | 24Jan11 01Apr11 | None | | None | | 2.7.1.10.2.3[FS]; 2.7.1.10.4.2.4[FS] | 2.7.1.10.4.2.6[FS] |
| 2.7.1.10.4.2.6 | Update online run history application | Complete | 40d | 08Feb11 31May13 | 04Apr11 27May11 | None | | None | | 2.7.1.10.4.2.5[FS] | 2.7.1.10.4.2.7[FS] |
| 2.7.1.10.4.2.7 | Deploy online run history application in production environment | Complete | 0 | 31May13 31May13 | 27May11 27May11 | None | | None | | 2.7.1.10.4.2.6[FS]; 2.7.1.10.3.3[FS] | 2.7.1.10.4.4[FS] |
| 2.7.1.10.4.3 | Online Monitoring Database Application | Complete | 10d | 01Apr10 14Apr10 | 01Apr10 14Apr10 | None | | None | | | |
| 2.7.1.10.4.3.1 | Online Monitoring Application Specification (OBSOLETE) | Complete | 3d | 01Apr10 05Apr10 | 01Apr10 05Apr10 | None | | None | | | |
| 2.7.1.10.4.3.1.1 | Develop online monitoring application specification (OBSOLETE) | Complete | 1d | 01Apr10 01Apr10 | 01Apr10 01Apr10 | None | | None | | | 2.7.1.10.4.3.1.2[FS] |
| 2.7.1.10.4.3.1.2 | Review online monitoring application specification (OBSOLETE) | Complete | 1d | 02Apr10 02Apr10 | 02Apr10 02Apr10 | None | | None | | 2.7.1.10.4.3.1.1[FS] | 2.7.1.10.4.3.1.3[FS] |
| 2.7.1.10.4.3.1.3 | Finalize online monitoring application specification (OBSOLETE) | Complete | 1d | 05Apr10 05Apr10 | 05Apr10 05Apr10 | None | | None | | 2.7.1.10.4.3.1.2[FS] | 2.7.1.10.4.3.2.1[FS] |
| 2.7.1.10.4.3.2 | Online Monitoring Application Design Document (OBSOLETE) | Complete | 3d | 06Apr10 08Apr10 | 06Apr10 08Apr10 | None | | None | | | |
| 2.7.1.10.4.3.2.1 | Online monitoring application design document draft (OBSOLETE) | Complete | 1d | 06Apr10 06Apr10 | 06Apr10 06Apr10 | None | | None | | 2.7.1.10.4.3.1.3[FS] | 2.7.1.10.4.3.2.2[FS] |
| 2.7.1.10.4.3.2.2 | Review online monitoring application design document (OBSOLETE) | Complete | 1d | 07Apr10 07Apr10 | 07Apr10 07Apr10 | None | | None | | 2.7.1.10.4.3.2.1[FS] | 2.7.1.10.4.3.2.3[FS] |
| 2.7.1.10.4.3.2.3 | Finalize online monitoring application design document (OBSOLETE) | Complete | 1d | 08Apr10 08Apr10 | 08Apr10 08Apr10 | None | | None | | 2.7.1.10.4.3.2.2[FS] | 2.7.1.10.4.3.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.1.10.4.3.3 | Prototype online monitoring application and database access (OBSOLETE) | Complete | 1d | 09Apr10 09Apr10 | 09Apr10 09Apr10 | None | | None | | 2.7.1.10.4.3.2.3[FS]; 1.7.1.10.1.5.3[FS] | 2.7.1.10.4.3.4[FS] |
| 2.7.1.10.4.3.4 | Implement & test online monitoring application in the development environment (OBSOLETE) | Complete | 1d | 12Apr10 12Apr10 | 12Apr10 12Apr10 | None | | None | | 2.7.1.10.4.3.3[FS] | 2.7.1.10.4.3.5[FS] |
| 2.7.1.10.4.3.5 | Implement online monitoring application in the integration environment (OBSOLETE) | Complete | 1d | 13Apr10 13Apr10 | 13Apr10 13Apr10 | None | | None | | 2.7.1.10.2.3[FS]; 2.7.1.10.4.3.4[FS] | 2.7.1.10.4.3.6[FS] |
| 2.7.1.10.4.3.6 | Update online monitoring application (OBSOLETE) | Complete | 1d | 14Apr10 14Apr10 | 14Apr10 14Apr10 | None | | None | | 2.7.1.10.4.3.5[FS] | 2.7.1.10.4.3.7[FS] |
| 2.7.1.10.4.3.7 | Deploy online monitoring application in production environment (OBSOLETE) | Complete | 0 | 14Apr10 14Apr10 | 14Apr10 14Apr10 | None | | None | | 2.7.1.10.3.3[FS]; 2.7.1.10.4.3.6[FS] | |
| 2.7.1.10.4.4 | Online Database Applications Completed | Planned | 0 | 01Jul13 01Jul13 | 18Nov11 18Nov11 | None | | None | | 2.7.1.10.4.2.7[FS] | 2.7.1.11[FS] |
| 2.7.1.11 | DAQ Software Ready for Operations | Planned | 0 | 06Jan14 06Jan14 | 27Sep13 27Sep13 | None | | None | | 2.7.1.1.2.6[FS]; 2.7.1.7.11[FS]; 2.7.1.8.14[FS]; 2.7.1.9.14[FS]; 2.7.1.10.4.4[FS]; 2.7.1.3.2.6[FS]; 2.7.1.4.3.6[FS]; 2.7.1.2.1.6[FS]; 2.7.1.4.4.4[FS]; 2.7.1.5.8[FS]; 2.7.1.4.4.9[FS]; 2.7.1.6.11[FS] | 2.10.9.1[FS] |
| 2.7.2 | DAQ Hardware | In Progress | 854d | 15Jun10 04Nov13 | 01Oct09 21Oct13 | None | | None | | 2.10.8.2[FS] | |
| 2.7.2.1 | Data Concentrator | Complete | 620d | 15Jun10 29Nov12 | 01Oct09 25May12 | None | | None | | | |
| 2.7.2.1.1 | Design | Complete | 139d | 15Apr11 31Oct11 | 01Oct09 25Nov09 | None | | None | | | |
| 2.7.2.1.1.1 | Firmware design | Complete | 40d | 15Apr11 14Oct11 | 01Oct09 25Nov09 | None | | None | | | 2.7.2.1.2.6.1[FS] |
| 2.7.2.1.1.2 | Embedded software | Complete | 20d | 03Oct11 31Oct11 | 01Oct09 28Oct09 | None | | None | | | 2.7.2.1.2.6.1[FS] |
| 2.7.2.1.2 | Production | Complete | 620d | 15Jun10 29Nov12 | 01Oct09 25May12 | None | | None | | | |
| 2.7.2.1.2.1 | Manufacturing requirements document | Complete | 10d | 15Apr11 14Oct11 | 01Oct09 14Oct09 | None | | None | | | 2.7.2.1.2.2[FS] |
| 2.7.2.1.2.2 | Manufacturing assembly and test specifications document | Complete | 10d | 01Sep11 14Oct11 | 15Oct09 28Oct09 | None | | None | | 2.7.2.1.2.1[FS] | 2.7.2.1.2.3[FS]; 2.7.3.6.1[FS] |
| 2.7.2.1.2.3 | Manufacturing review | Complete | 5d | 01Sep11 01Feb12 | 29Oct09 04Nov09 | None | | None | | 2.7.2.1.2.2[FS] | 2.7.2.1.2.4.1[FS] |
| 2.7.2.1.2.4 | Order Production Manufacture | Complete | 96d | 01Jun11 15Oct11 | 01Oct09 05Dec11 | None | | None | | | |
| 2.7.2.1.2.4.1 | Write RFQ | Complete | 5d | 01Jun11 08Jun11 | 01Oct09 07Oct09 | None | | None | | 2.7.2.1.2.3[FS]; 1.7.7.6[SS+20d] | 2.7.2.1.2.4.2[FS] |
| 2.7.2.1.2.4.2 | Request bids | Complete | 5d | 08Jun11 15Jun11 | 08Oct09 14Oct09 | None | | None | | 2.7.2.1.2.4.1[FS] | 2.7.2.1.2.4.3[FS] |
| 2.7.2.1.2.4.3 | Evaluate bids | Complete | 10d | 15Jun11 23Jun11 | 15Oct09 28Oct09 | None | | None | | 2.7.2.1.2.4.2[FS] | 2.7.2.1.2.4.4[FS] |
| 2.7.2.1.2.4.4 | Write purchase request | Complete | 5d | 06Jul11 11Jul11 | 29Oct09 04Nov09 | None | | None | | 2.7.2.1.2.4.3[FS] | 2.7.2.1.2.4.5[FS] |
| 2.7.2.1.2.4.5 | Obtain project approvals | Complete | 10d | 11Jul11 21Jul11 | 05Nov09 18Nov09 | None | | None | | 2.7.2.1.2.4.4[FS] | 2.7.2.1.2.4.6[FS] |
| 2.7.2.1.2.4.6 | Obtain DOE approvals | Complete | 30d | 21Jul11 21Jul11 | 19Nov09 07Jan10 | None | | None | | 2.7.2.1.2.4.5[FS] | 2.7.2.1.2.4.7[FS] |
| 2.7.2.1.2.4.7 | Write purchase orders | Complete | 5d | 01Sep11 09Sep11 | 30Sep11 06Oct11 | None | | None | | 2.7.2.1.2.4.6[FS] | 2.7.2.1.2.4.8[FS] |
| 2.7.2.1.2.4.8 | Place purchase orders | Complete | 40d | 01Sep11 15Oct11 | 07Oct11 05Dec11 | None | | None | | 2.7.2.1.2.4.7[FS] | 2.7.2.1.2.11[FS]; 2.7.2.1.2.5[FS+10d] |
| 2.7.2.1.2.5 | Receive first article data concentrators | Complete | 1d | 05Dec11 05Dec11 | 01Dec11 01Dec11 | None | | None | | 2.7.2.1.2.4.8[FS+10d] | 2.7.2.1.2.6.1[FS]; 2.7.2.1.2.6.2[FS] |
| 2.7.2.1.2.6 | First Article Test | Complete | 28d | 05Dec11 18Jan12 | 02Dec11 16Dec11 | None | | None | | | |
| 2.7.2.1.2.6.1 | Standalone board tests | Complete | 10d | 05Dec11 15Dec11 | 02Dec11 15Dec11 | None | | None | | 2.7.2.1.1.1[FS]; 2.7.2.1.1.2[FS]; 2.7.2.1.2.5[FS] | 2.7.2.1.2.6.3[FS] |
| 2.7.2.1.2.6.2 | Interface tests | Complete | 10d | 15Dec11 17Jan12 | 02Dec11 15Dec11 | None | | None | | 2.7.2.1.2.5[FS] | 2.7.2.1.2.6.3[FS] |
| 2.7.2.1.2.6.3 | Evaluate test results | Complete | 1d | 18Jan12 18Jan12 | 16Dec11 16Dec11 | None | | None | | 2.7.2.1.2.6.2[FS]; 2.7.2.1.2.6.1[FS] | 2.7.3.1.1[FS]; 2.7.2.1.2.7[FS] |
| 2.7.2.1.2.7 | Release production hold | Complete | 0 | 30Jan12 30Jan12 | 16Dec11 16Dec11 | None | | None | | 2.7.2.1.2.6.3[FS] | 2.7.2.1.2.12[FS+27d]; 2.7.2.1.2.8[FS+10d] |
| 2.7.2.1.2.8 | Production data concentrators received | Complete | 0 | 28Nov12 28Nov12 | 30Mar12 30Mar12 | None | | None | | 2.7.2.1.2.13[FS]; 2.7.2.1.2.7[FS+10d] | 2.7.2.1.2.9.1[FS]; 2.7.2.1.2.9.2[FS] |
| 2.7.2.1.2.9 | Production Test | Complete | 191d | 01Mar12 29Nov12 | 02Apr12 25May12 | None | | None | | | |
| 2.7.2.1.2.9.1 | Standalone board tests | Complete | 40d | 01Mar12 29Nov12 | 02Apr12 25May12 | None | | None | | 2.7.2.1.2.8[FS] | 2.9.4.5.1[FS]; 2.7.3.1.2[FS]; 2.7.3.5.3[FS]; 2.9.4.5.110[FS] |
| 2.7.2.1.2.9.2 | Interface tests | Complete | 30d | 01Mar12 29Nov12 | 02Apr12 11May12 | None | | None | | 2.7.2.1.2.8[FS] | 2.9.4.5.1[FS]; 2.7.3.1.2[FS]; 2.7.3.5.3[FS]; 2.9.4.5.110[FS] |
| 2.7.2.1.2.10 | Procure and assemble remaining ND DCMs | Complete | 20d | 15Jun10 30Jun10 | 30Oct09 30Nov09 | None | | None | | 1.7.2.1.6.3[FS] | 2.7.2.1.3.1[FS]; 1.7.2.1.7.1[FS] |
| 2.7.2.1.2.11 | Receive production COTS | Complete | 40d | 03Oct11 29Dec11 | 15Nov11 18Jan12 | None | | None | | 2.7.2.1.2.4.8[FS] | 2.7.2.1.2.13[FS+20d] |
| 2.7.2.1.2.12 | Receive production boards | Complete | 1d | 01Feb12 15Jun12 | 01Feb12 01Feb12 | None | | None | | 2.7.2.1.2.7[FS+27d] | 2.7.2.1.2.13[FS+20d] |
| 2.7.2.1.2.13 | Receive production DCMs | Complete | 22d | 01Feb12 29Nov12 | 01Mar12 30Mar12 | None | | None | | 2.7.2.1.2.11[FS+20d]; 2.7.2.1.2.12[FS+20d] | 2.7.2.1.2.8[FS] |
| 2.7.2.1.3 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 01Oct09 11Dec09 | None | | None | | | |
| 2.7.2.1.3.1 | Perform FMEA tests and analysis | Complete | 30d | 15Nov12 28Nov12 | 01Oct09 11Nov09 | None | | None | | 2.7.2.1.2.10[FS] | 2.7.2.1.3.2[FS] |
| 2.7.2.1.3.2 | Write failure modes and effects analysis document | Complete | 20d | 15Nov12 28Nov12 | 12Nov09 11Dec09 | None | | None | | 2.7.2.1.3.1[FS] | 2.7.2.9[FS] |
| 2.7.2.2 | Control and Timing System | Complete | 419d | 01Apr11 28Nov12 | 01Oct09 06Jul12 | None | | None | | | |
| 2.7.2.2.1 | Pre-production Design Modifications | Complete | 133d | 01Apr11 07Oct11 | 01Oct09 04Nov09 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.2.2.1.1 | Specifications | Complete | 5d | 03Oct11 07Oct11 | 01Oct09 07Oct09 | None | | None | | | |
| 2.7.2.2.1.1.1 | Prepare specifications document | Complete | 5d | 03Oct11 07Oct11 | 01Oct09 07Oct09 | None | | None | | 1.7.2.2.4[FS]; 1.7.7.6[SS+36d] | 2.7.2.2.1.2.1[FS]; 2.7.2.2.1.3[FS]; 2.7.2.2.1.4[FS] |
| 2.7.2.2.1.2 | Circuit Design | Complete | 21d | 01Apr11 29Apr11 | 08Oct09 21Oct09 | None | | None | | | |
| 2.7.2.2.1.2.1 | Schematic entry | Complete | 10d | 01Apr11 29Apr11 | 08Oct09 21Oct09 | None | | None | | 2.7.2.2.1.1.1[FS] | 2.7.2.2.2.1.1[FS] |
| 2.7.2.2.1.3 | Board design | Complete | 20d | 01Apr11 29Apr11 | 08Oct09 04Nov09 | None | | None | | 2.7.2.2.1.1.1[FS] | 2.7.2.2.2.1.1[FS] |
| 2.7.2.2.1.4 | Simulation | Complete | 20d | 01Apr11 29Apr11 | 08Oct09 04Nov09 | None | | None | | 2.7.2.2.1.1.1[FS] | 2.7.2.2.2.1.1[FS] |
| 2.7.2.2.2 | Pre-production Manufacture | Complete | 86d | 01Jun11 30Sep11 | 05Nov09 13Oct11 | None | | None | | | |
| 2.7.2.2.2.1 | Order Pre-production Manufacture | Complete | 22d | 01Jun11 30Jun11 | 05Nov09 23May11 | None | | None | | | |
| 2.7.2.2.2.1.1 | Write purchase requests | Complete | 5d | 01Jun11 08Jun11 | 05Nov09 11Nov09 | None | | None | | 2.7.2.2.1.4[FS]; 2.7.2.2.1.3[FS]; 2.7.2.2.1.2.1[FS] | 2.7.2.2.2.1.2[FS] |
| 2.7.2.2.2.1.2 | Obtain project approvals | Complete | 10d | 08Jun11 15Jun11 | 12Nov09 25Nov09 | None | | None | | 2.7.2.2.2.1.1[FS] | 2.7.2.2.2.1.3[FS] |
| 2.7.2.2.2.1.3 | Write purchase orders | Complete | 5d | 15Jun11 23Jun11 | 30Nov09 04Dec09 | None | | None | | 2.7.2.2.2.1.2[FS] | 2.7.2.2.2.1.4[FS] |
| 2.7.2.2.2.1.4 | Place purchase orders | Complete | 20d | 24Jun11 30Jun11 | 26Apr11 23May11 | None | | None | | 2.7.2.2.2.1.3[FS]; 2.1.2.5.22[FS+20d] | 2.7.2.2.2.2[FS+10d] |
| 2.7.2.2.2.2 | Pre-production PCBs and components received for control and timing system | Complete | 0 | 19Aug11 19Aug11 | 17Aug11 17Aug11 | None | | None | | 2.7.2.2.2.1.4[FS+10d] | 2.7.2.2.2.3[FS] |
| 2.7.2.2.2.3 | Assemble pre-production version | Complete | 40d | 22Aug11 30Sep11 | 18Aug11 13Oct11 | None | | None | | 2.7.2.2.2.2[FS] | 2.7.2.2.3.1[FS] |
| 2.7.2.2.3 | Test | Complete | 28d | 05Dec11 18Jan12 | 14Oct11 29Dec11 | None | | None | | | |
| 2.7.2.2.3.1 | Perform standalone board tests | Complete | 30d | 05Dec11 15Dec11 | 14Oct11 28Nov11 | None | | None | | 2.7.2.2.2.3[FS] | 2.7.2.2.3.2[FS] |
| 2.7.2.2.3.2 | Perform interface tests | Complete | 20d | 15Dec11 17Jan12 | 29Nov11 28Dec11 | None | | None | | 2.7.2.2.3.1[FS] | 2.7.2.2.3.3[FS] |
| 2.7.2.2.3.3 | Review test results | Complete | 1d | 18Jan12 18Jan12 | 29Dec11 29Dec11 | None | | None | | 2.7.2.2.3.2[FS] | 2.7.2.2.4[FS] |
| 2.7.2.2.4 | Production approved | Complete | 0 | 30Jan12 30Jan12 | 29Dec11 29Dec11 | None | | None | | 2.7.2.2.3.3[FS] | 2.7.2.2.6.2.1[FS]; 2.9.4.5.110[FS]; 2.9.4.5.1[FS]; 2.9.4.5.2[FS] |
| 2.7.2.2.5 | Design | Complete | 168d | 02Apr12 28Nov12 | 01Oct09 28Oct09 | None | | None | | | |
| 2.7.2.2.5.1 | Firmware design | Complete | 20d | 02Apr12 28Nov12 | 01Oct09 28Oct09 | None | | None | | | 2.7.2.2.6.1[FS] |
| 2.7.2.2.6 | Production | Complete | 186d | 01Sep11 30May12 | 29Oct09 21Jun12 | None | | None | | | |
| 2.7.2.2.6.1 | Manufacturing requirements document | Complete | 10d | 01May12 30May12 | 29Oct09 11Nov09 | None | | None | | 2.7.2.2.5.1[FS] | 2.7.2.2.6.2.1[FS] |
| 2.7.2.2.6.2 | Order Production PCB Manufacture | Complete | 112d | 01Sep11 15Feb12 | 12Nov09 27Mar12 | None | | None | | | |
| 2.7.2.2.6.2.1 | Write RFQ | Complete | 5d | 03Oct11 07Oct11 | 12Nov09 18Nov09 | None | | None | | 2.7.2.2.4[FS]; 2.7.2.2.6.1[FS] | 2.7.2.2.6.2.2[FS] |
| 2.7.2.2.6.2.2 | Request bids | Complete | 5d | 07Oct11 14Oct11 | 19Nov09 25Nov09 | None | | None | | 2.7.2.2.6.2.1[FS] | 2.7.2.2.6.2.3[FS] |
| 2.7.2.2.6.2.3 | Evaluate bids | Complete | 10d | 17Oct11 31Oct11 | 30Nov09 11Dec09 | None | | None | | 2.7.2.2.6.2.2[FS] | 2.7.2.2.6.2.4[FS] |
| 2.7.2.2.6.2.4 | Write purchase requests | Complete | 5d | 01Sep11 15Feb12 | 01Feb12 07Feb12 | None | | None | | 2.7.2.2.6.2.3[FS] | 2.7.2.2.6.2.5[FS] |
| 2.7.2.2.6.2.5 | Obtain project approvals | Complete | 10d | 01Sep11 15Feb12 | 08Feb12 21Feb12 | None | | None | | 2.7.2.2.6.2.4[FS] | 2.7.2.2.6.2.6[FS] |
| 2.7.2.2.6.2.6 | Write purchase orders | Complete | 5d | 01Sep11 15Feb12 | 22Feb12 28Feb12 | None | | None | | 2.7.2.2.6.2.5[FS] | 2.7.2.2.6.2.7[FS] |
| 2.7.2.2.6.2.7 | Place purchase orders | Complete | 20d | 01Sep11 15Feb12 | 29Feb12 27Mar12 | None | | None | | 2.7.2.2.6.2.6[FS] | 2.7.2.2.6.3[FS] |
| 2.7.2.2.6.3 | Receive production control and timing | Complete | 1d | 01Sep11 16Apr12 | 28Mar12 28Mar12 | None | | None | | 2.7.2.2.6.2.7[FS] | 2.7.2.2.6.4[FS] |
| 2.7.2.2.6.4 | Production assembly | Complete | 30d | 15Feb12 16Apr12 | 29Mar12 23May12 | None | | None | | 2.7.2.2.6.3[FS] | 2.7.2.2.7.1[FS]; 2.7.2.2.6.5.2[SS+20d]; 2.7.2.2.6.5.1[SS+20d] |
| 2.7.2.2.6.5 | Production Test | Complete | 64d | 01Mar12 30May12 | 24May12 21Jun12 | None | | None | | | |
| 2.7.2.2.6.5.1 | Standalone board tests | Complete | 30d | 01Mar12 16Apr12 | 24May12 21Jun12 | None | | None | | 2.7.2.2.6.4[SS+20d] | 2.7.3.1.3[FS]; 2.7.3.5.2[FS] |
| 2.7.2.2.6.5.2 | Interface tests | Complete | 30d | 01Mar12 30May12 | 24May12 07Jun12 | None | | None | | 2.7.2.2.6.4[SS+20d] | 2.9.4.5.3[SS+10d]; 2.7.3.1.3[FS]; 2.7.3.5.2[FS] |
| 2.7.2.2.7 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 24May12 06Jul12 | None | | None | | | |
| 2.7.2.2.7.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 28Nov12 | 24May12 21Jun12 | None | | None | | 2.7.2.2.6.4[FS] | 2.7.2.2.7.2[FS] |
| 2.7.2.2.7.2 | Write failure modes and affects analysis document | Complete | 10d | 15Nov12 28Nov12 | 22Jun12 06Jul12 | None | | None | | 2.7.2.2.7.1[FS] | 2.7.2.9[FS] |
| 2.7.2.2.8 | Procure and assemble remaining ND TDUs | Complete | 10d | 01Apr11 29Apr11 | 01Oct09 14Oct09 | None | | None | | 1.7.2.2.3.6[FS] | 1.7.2.2.4.2[FS] |
| 2.7.2.3 | Network | Complete | 377d | 01Jun11 28Nov12 | 01Oct09 14Dec11 | None | | None | | | |
| 2.7.2.3.1 | Order production components | Complete | 1d | 01Jun11 08Jun11 | 01Oct09 01Oct09 | None | | None | | 1.7.7.6[SS+40d] | 2.7.2.3.2[FS] |
| 2.7.2.3.2 | Write RFQ | Complete | 5d | 08Jun11 15Jun11 | 02Oct09 08Oct09 | None | | None | | 2.7.2.3.1[FS] | 2.7.2.3.3[FS] |
| 2.7.2.3.3 | Request bids | Complete | 5d | 15Jun11 23Jun11 | 09Oct09 15Oct09 | None | | None | | 2.7.2.3.2[FS] | 2.7.2.3.4[FS] |
| 2.7.2.3.4 | Evaluate bids | Complete | 10d | 24Jun11 30Jun11 | 16Oct09 29Oct09 | None | | None | | 2.7.2.3.3[FS] | 2.7.2.3.5[FS] |
| 2.7.2.3.5 | Write purchase requests | Complete | 5d | 01Sep11 09Sep11 | 30Oct09 05Nov09 | None | | None | | 2.7.2.3.4[FS] | 2.7.2.3.6[FS] |
| 2.7.2.3.6 | Obtain project approvals | Complete | 10d | 12Sep11 12Sep11 | 06Nov09 19Nov09 | None | | None | | 2.7.2.3.5[FS] | 2.7.2.3.7[FS] |
| 2.7.2.3.7 | Write purchase orders | Complete | 5d | 12Sep11 21Sep11 | 20Nov09 30Nov09 | None | | None | | 2.7.2.3.6[FS] | 2.7.2.3.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.2.3.8 | Place purchase orders | Complete | 20d | 21Sep11 23Sep11 | 26Apr11 23May11 | None | | None | | 2.7.2.3.7[FS]; 2.1.2.5.22[FS+20d] | 2.7.2.3.9[FS] |
| 2.7.2.3.9 | Receive production components | Complete | 1d | 01Nov11 01Nov11 | 03Oct11 03Oct11 | None | | None | | 2.7.2.3.8[FS] | 2.7.2.3.10[FS] |
| 2.7.2.3.10 | Test | Complete | 20d | 15Nov11 15Dec11 | 04Oct11 31Oct11 | None | | None | | 2.7.2.3.9[FS] | 2.9.4.5.1[FS]; 2.7.2.3.11.1[FS]; 2.9.4.5.110[FS] |
| 2.7.2.3.11 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 01Nov11 14Dec11 | None | | None | | | |
| 2.7.2.3.11.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 28Nov12 | 01Nov11 30Nov11 | None | | None | | 2.7.2.3.10[FS] | 2.7.2.3.11.2[FS] |
| 2.7.2.3.11.2 | Write failure modes and effects analysis document | Complete | 10d | 15Nov12 28Nov12 | 01Dec11 14Dec11 | None | | None | | 2.7.2.3.11.1[FS] | 2.7.2.9[FS] |
| 2.7.2.4 | Control Room Equipment and Infrastucture | Complete | 374d | 01Jun11 24Nov12 | 01Oct09 25Jan12 | None | | None | | | |
| 2.7.2.4.1 | Order production components | Complete | 1d | 01Jun11 08Jun11 | 01Oct09 01Oct09 | None | | None | | 1.7.7.6[SS+40d] | 2.7.2.4.2[FS] |
| 2.7.2.4.2 | Write RFQ | Complete | 5d | 08Jun11 15Jun11 | 02Oct09 08Oct09 | None | | None | | 2.7.2.4.1[FS] | 2.7.2.4.3[FS] |
| 2.7.2.4.3 | Request bids | Complete | 5d | 15Jun11 23Jun11 | 09Oct09 15Oct09 | None | | None | | 2.7.2.4.2[FS] | 2.7.2.4.4[FS] |
| 2.7.2.4.4 | Evaluate bids | Complete | 10d | 24Jun11 30Jun11 | 16Oct09 29Oct09 | None | | None | | 2.7.2.4.3[FS] | 2.7.2.4.5[FS] |
| 2.7.2.4.5 | Write purchase requests | Complete | 5d | 06Jul11 11Jul11 | 30Oct09 05Nov09 | None | | None | | 2.7.2.4.4[FS] | 2.7.2.4.6[FS] |
| 2.7.2.4.6 | Obtain project approvals | Complete | 10d | 11Jul11 21Jul11 | 06Nov09 19Nov09 | None | | None | | 2.7.2.4.5[FS] | 2.7.2.4.7[FS] |
| 2.7.2.4.7 | Write purchase orders | Complete | 5d | 21Jul11 21Jul11 | 20Nov09 30Nov09 | None | | None | | 2.7.2.4.6[FS] | 2.7.2.4.8[FS] |
| 2.7.2.4.8 | Place purchase orders | Complete | 20d | 22Jul11 22Jul11 | 26Apr11 23May11 | None | | None | | 2.7.2.4.7[FS]; 2.1.2.5.22[FS+20d] | 2.7.2.4.9[FS+10d] |
| 2.7.2.4.9 | Receive production components | Complete | 1d | 19Aug11 19Aug11 | 12Sep11 12Sep11 | None | | None | | 2.7.2.4.8[FS+10d] | 2.7.2.4.10[FS] |
| 2.7.2.4.10 | Assemble equipment and infrastructure | Complete | 40d | 01Sep11 09Sep11 | 13Sep11 07Nov11 | None | | None | | 2.7.2.4.9[FS] | 2.7.2.4.11[FS] |
| 2.7.2.4.11 | Test | Complete | 20d | 12Sep11 24Oct11 | 08Nov11 07Dec11 | None | | None | | 2.7.2.4.10[FS] | 2.9.4.5.1[FS]; 2.7.2.4.12.1[FS]; 2.9.4.5.110[FS] |
| 2.7.2.4.12 | Failure Modes and Effects Analysis | Complete | 5d | 15Nov12 24Nov12 | 08Dec11 25Jan12 | None | | None | | | |
| 2.7.2.4.12.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 24Nov12 | 08Dec11 10Jan12 | None | | None | | 2.7.2.4.11[FS] | 2.7.2.4.12.2[FS] |
| 2.7.2.4.12.2 | Write failure modes and effects analysis document | Complete | 10d | 15Nov12 24Nov12 | 11Jan12 25Jan12 | None | | None | | 2.7.2.4.12.1[FS] | 2.7.2.9[FS] |
| 2.7.2.5 | Buffer Farm | In Progress | 584d | 01Jun11 25Sep13 | 01Oct09 21Oct13 | None | | None | | | |
| 2.7.2.5.1 | Order production components | Complete | 1d | 01Jun11 08Jun11 | 01Oct09 01Oct09 | None | | None | | 1.7.7.6[SS+20d] | 2.7.2.5.2[FS] |
| 2.7.2.5.2 | Write RFQ | Complete | 5d | 08Jun11 15Jun11 | 02Oct09 08Oct09 | None | | None | | 2.7.2.5.1[FS] | 2.7.2.5.3[FS] |
| 2.7.2.5.3 | Request bids | Complete | 5d | 15Jun11 23Jun11 | 09Oct09 15Oct09 | None | | None | | 2.7.2.5.2[FS] | 2.7.2.5.4[FS] |
| 2.7.2.5.4 | Evaluate bids | Complete | 10d | 24Jun11 30Jun11 | 16Oct09 29Oct09 | None | | None | | 2.7.2.5.3[FS] | 2.7.2.5.5[FS] |
| 2.7.2.5.5 | Write purchase requests | Complete | 5d | 01Sep11 09Sep11 | 30Oct09 05Nov09 | None | | None | | 2.7.2.5.4[FS] | 2.7.2.5.6[FS] |
| 2.7.2.5.6 | Obtain project approvals | Complete | 10d | 03Oct11 07Oct11 | 06Nov09 19Nov09 | None | | None | | 2.7.2.5.5[FS] | 2.7.2.5.7[FS] |
| 2.7.2.5.7 | Obtain DOE approvals | Complete | 15d | 07Oct11 07Oct11 | 20Nov09 08Jan10 | None | | None | | 2.7.2.5.6[FS] | 2.7.2.5.8[FS] |
| 2.7.2.5.8 | Write purchase orders | Complete | 5d | 01Nov11 01Nov11 | 04May11 10May11 | None | | None | | 2.7.2.5.7[FS] | 2.7.2.5.9[FS] |
| 2.7.2.5.9 | Place purchase orders (1/3) | Complete | 10d | 05Dec11 15Dec11 | 11May11 24May11 | None | | None | | 2.7.2.5.8[FS] | 2.7.2.5.10[FS+20d]; 2.7.2.5.13[FS] |
| 2.7.2.5.10 | Receive production components (1/3) | Complete | 1d | 17Jan12 17Jan12 | 01Feb12 01Feb12 | None | | None | | 2.7.2.5.9[FS+20d] | 2.7.2.5.11[FS] |
| 2.7.2.5.11 | Test (1/3) | Complete | 10d | 18Jan12 30Jan12 | 02Feb12 15Feb12 | None | | None | | 2.7.2.5.10[FS] | 2.9.4.5.1[FS]; 2.7.2.5.12.1[FS]; 2.7.3.4.1[FS]; 2.9.4.5.110[FS] |
| 2.7.2.5.12 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 16Feb12 28Mar12 | None | | None | | | |
| 2.7.2.5.12.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 28Nov12 | 16Feb12 14Mar12 | None | | None | | 2.7.2.5.11[FS] | 2.7.2.5.12.2[FS] |
| 2.7.2.5.12.2 | Write failure modes and effects analysis document | Complete | 10d | 15Nov12 28Nov12 | 15Mar12 28Mar12 | None | | None | | 2.7.2.5.12.1[FS] | 2.7.2.9[FS] |
| 2.7.2.5.13 | Place purchase orders (2/3) | Planned | 10d | 01Jul13 15Jul13 | 20Jun12 03Jul12 | None | | None | | 2.9.4.3.11[FS]; 2.7.2.5.9[FS] | 2.7.2.5.16[FS]; 2.7.2.5.14[FS+20d] |
| 2.7.2.5.14 | Receive production components (2/3) | Planned | 1d | 13Aug13 13Aug13 | 02Aug12 02Aug12 | None | | None | | 2.7.2.5.13[FS+20d] | 2.7.2.5.15[FS] |
| 2.7.2.5.15 | Test (2/3) | Planned | 10d | 14Aug13 27Aug13 | 03Aug12 16Aug12 | None | | None | | 2.7.2.5.14[FS] | 2.7.3.4.2[FS]; 2.9.4.5.115[FS]; 2.9.4.5.6[FS] |
| 2.7.2.5.16 | Place purchase orders (3/3) | Planned | 10d | 30Jul13 12Aug13 | 27Dec12 11Jan13 | None | | None | | 2.9.4.3.23[FS]; 2.7.2.5.13[FS] | 2.7.2.5.17[FS+20d] |
| 2.7.2.5.17 | Receive production components (3/3) | Planned | 1d | 11Sep13 11Sep13 | 07Oct13 07Oct13 | None | | None | | 2.7.2.5.16[FS+20d] | 2.7.2.5.18[FS] |
| 2.7.2.5.18 | Test (3/3) | Planned | 10d | 12Sep13 25Sep13 | 08Oct13 21Oct13 | None | | None | | 2.7.2.5.17[FS] | 2.7.3.4.3[FS]; 2.9.4.5.120[FS]; 2.9.4.5.11[FS] |
| 2.7.2.6 | Data Storage | In Progress | 635d | 28Apr11 04Nov13 | 01Oct09 17May13 | None | | None | | | |
| 2.7.2.6.1 | Order production components | Complete | 1d | 01Jun11 08Jun11 | 01Oct09 01Oct09 | None | | None | | 1.7.7.6[SS+40d] | 2.7.2.6.2[FS] |
| 2.7.2.6.2 | Write RFQ | Complete | 5d | 08Jun11 15Jun11 | 02Oct09 08Oct09 | None | | None | | 2.7.2.6.1[FS] | 2.7.2.6.3[FS] |
| 2.7.2.6.3 | Request bids | Complete | 5d | 15Jun11 23Jun11 | 09Oct09 15Oct09 | None | | None | | 2.7.2.6.2[FS] | 2.7.2.6.4[FS] |
| 2.7.2.6.4 | Evaluate bids | Complete | 10d | 24Jun11 30Jun11 | 16Oct09 29Oct09 | None | | None | | 2.7.2.6.3[FS] | 2.7.2.6.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.2.6.5 | Write purchase requests | Complete | 5d | 06Jul11 11Jul11 | 30Oct09 05Nov09 | None | | None | | 2.7.2.6.4[FS] | 2.7.2.6.6[FS] |
| 2.7.2.6.6 | Obtain project approvals | Complete | 10d | 11Jul11 21Jul11 | 06Nov09 19Nov09 | None | | None | | 2.7.2.6.5[FS] | 2.7.2.6.7[FS] |
| 2.7.2.6.7 | Write purchase orders | Complete | 5d | 28Apr11 09Sep11 | 20Nov09 30Nov09 | None | | None | | 2.7.2.6.6[FS] | 2.7.2.6.8[FS] |
| 2.7.2.6.8 | Place purchase orders | Complete | 20d | 05Dec11 15Dec11 | 26Apr11 23May11 | None | | None | | 2.7.2.6.7[FS]; 2.1.2.5.22[FS+20d] | 2.7.2.6.9[FS+10d] |
| 2.7.2.6.9 | Receive production components | Complete | 1d | 23Jan12 23Jan12 | 15Dec11 15Dec11 | None | | None | | 2.7.2.6.8[FS+10d] | 2.7.2.6.10[FS]; 2.7.2.6.12[FS] |
| 2.7.2.6.10 | Test | Complete | 10d | 24Jan12 30Jan12 | 16Dec11 04Jan12 | None | | None | | 2.7.2.6.9[FS] | 2.9.4.5.1[FS]; 2.7.2.6.11.1[FS]; 2.9.4.5.110[FS] |
| 2.7.2.6.11 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 05Jan12 16Feb12 | None | | None | | | |
| 2.7.2.6.11.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 28Nov12 | 05Jan12 02Feb12 | None | | None | | 2.7.2.6.10[FS] | 2.7.2.6.11.2[FS] |
| 2.7.2.6.11.2 | Write failure modes and effects analysis document | Complete | 10d | 15Nov12 28Nov12 | 03Feb12 16Feb12 | None | | None | | 2.7.2.6.11.1[FS] | 2.7.2.9[FS] |
| 2.7.2.6.12 | Receive additional production data storage components | Planned | 1d | 21Oct13 21Oct13 | 03May13 03May13 | None | | None | | 2.9.4.5.8[FS]; 2.7.2.6.9[FS] | 2.7.2.6.13[FS] |
| 2.7.2.6.13 | Test additional data storage components | Planned | 10d | 22Oct13 04Nov13 | 06May13 17May13 | None | | None | | 2.7.2.6.12[FS] | |
| 2.7.2.7 | Cabling | In Progress | 541d | 01Jun11 26Jul13 | 01Oct09 23May12 | None | | None | | | |
| 2.7.2.7.1 | Order production components | Complete | 1d | 01Jun11 08Jun11 | 01Oct09 01Oct09 | None | | None | | 1.7.7.6[SS+40d] | 2.7.2.7.2[FS] |
| 2.7.2.7.2 | Write RFQ | Complete | 5d | 08Jun11 15Jun11 | 02Oct09 08Oct09 | None | | None | | 2.7.2.7.1[FS] | 2.7.2.7.3[FS] |
| 2.7.2.7.3 | Request bids | Complete | 5d | 15Jun11 23Jun11 | 09Oct09 15Oct09 | None | | None | | 2.7.2.7.2[FS] | 2.7.2.7.4[FS] |
| 2.7.2.7.4 | Evaluate bids | Complete | 10d | 24Jun11 30Jun11 | 16Oct09 29Oct09 | None | | None | | 2.7.2.7.3[FS] | 2.7.2.7.5[FS] |
| 2.7.2.7.5 | Write purchase requests | Complete | 5d | 20Jun12 15Aug12 | 30Oct09 05Nov09 | None | | None | | 2.7.2.7.4[FS] | 2.7.2.7.6[FS] |
| 2.7.2.7.6 | Obtain project approvals | Complete | 10d | 15Aug12 15Aug12 | 06Nov09 19Nov09 | None | | None | | 2.7.2.7.5[FS] | 2.7.2.7.7[FS] |
| 2.7.2.7.7 | Write purchase orders | Complete | 5d | 15Aug12 15Aug12 | 20Nov09 30Nov09 | None | | None | | 2.7.2.7.6[FS] | 2.7.2.7.8[FS] |
| 2.7.2.7.8 | Place purchase orders | Complete | 20d | 10Sep12 25Sep12 | 26Apr11 23May11 | None | | None | | 2.7.2.7.7[FS]; 2.1.2.5.22[FS+20d] | 2.7.2.7.9[FS+10d] |
| 2.7.2.7.9 | Receive production components | In Progress | 40d | 04Jan13 25Jul13 | 15Feb12 10Apr12 | None | | None | | 2.7.2.7.8[FS+10d] | 2.7.2.7.10[SS+1d] |
| 2.7.2.7.10 | Test | In Progress | 40d | 04Jan13 25Jul13 | 16Feb12 11Apr12 | None | | None | | 2.7.2.7.9[SS+1d] | 2.7.2.7.11.1[FS]; 2.9.4.5.1[SS+20d]; 2.9.4.5.110[SS+20d] |
| 2.7.2.7.11 | Failure Modes and Effects Analysis | Complete | 8d | 15Nov12 28Nov12 | 12Apr12 23May12 | None | | None | | | |
| 2.7.2.7.11.1 | Perform FMEA tests and analysis | Complete | 20d | 15Nov12 28Nov12 | 12Apr12 09May12 | None | | None | | 2.7.2.7.10[FS] | 2.7.2.7.11.2[FS] |
| 2.7.2.7.11.2 | Write failure modes and effects analysis document | Complete | 10d | 15Nov12 28Nov12 | 10May12 23May12 | None | | None | | 2.7.2.7.11.1[FS] | 2.7.2.9[FS] |
| 2.7.2.8 | Databases | Planned | 40d | 01Jul13 26Aug13 | 11Feb11 07Apr11 | None | | None | | | |
| 2.7.2.8.1 | Procure database computers | Planned | 40d | 01Jul13 26Aug13 | 11Feb11 07Apr11 | None | | None | | 1.7.7.6[SS+80d]; 2.1.2.5.23[FS]; 2.1.2.3.5[FS] | 2.9.4.6.14[FS] |
| 2.7.2.9 | DAQ hardware documentation completed | Planned | 0 | 26Jul13 26Jul13 | 06Jul12 06Jul12 | None | | None | | 2.7.2.1.3.2[FS]; 2.7.2.3.11.2[FS]; 2.7.2.2.7.2[FS]; 2.7.2.6.11.2[FS]; 2.7.2.7.11.2[FS]; 2.7.2.5.12.2[FS]; 2.7.2.4.12.2[FS] | 2.9.4.6.1[FS] |
| 2.7.3 | Integration | In Progress | 1044d | 01Oct09 25Nov13 | 01Oct09 28Oct13 | None | | None | | 2.10.8.2[FS] | |
| 2.7.3.1 | Readout Electronics Integration Testing | Complete | 329d | 14Feb11 01Jun12 | 13Sep11 20Jul12 | None | | None | | | |
| 2.7.3.1.1 | Upgrade integration test stand | Complete | 5d | 14Feb11 18Feb11 | 13Sep11 19Sep11 | None | | None | | 2.7.2.1.2.6.3[FS] | 2.7.3.1.2[FS] |
| 2.7.3.1.2 | Integrate data concentrators | Complete | 30d | 14Feb11 30Sep11 | 22Nov11 10Jan12 | None | | None | | 2.7.3.1.1[FS]; 2.7.2.1.2.9.1[FS]; 2.7.2.1.2.9.2[FS] | 2.7.3.1.3[FS] |
| 2.7.3.1.3 | Integrate timing system | Complete | 20d | 23Apr12 01Jun12 | 22Jun12 20Jul12 | None | | None | | 2.7.3.1.2[FS]; 2.7.2.2.6.5.2[FS]; 2.7.2.2.6.5.1[FS] | 2.7.3.2.1[FS] |
| 2.7.3.1.4 | Configure DCM/TDU boot loader | Complete | 19d | 09Apr12 01Jun12 | 01Dec11 29Dec11 | None | | None | | | 2.7.3.3.7[FS] |
| 2.7.3.2 | Software Integration Testing | In Progress | 418d | 02Apr12 25Nov13 | 23Jul12 13Mar13 | None | | None | | | |
| 2.7.3.2.1 | Integrate RCS multinode | In Progress | 60d | 06May13 06Sep13 | 23Jul12 15Oct12 | None | | None | | 2.7.3.1.3[FS]; 2.7.1.3.1.1[FS]; 2.7.3.5.2[FS] | 2.7.3.2.2[FS] |
| 2.7.3.2.2 | Integrate data storage system | In Progress | 40d | 02Apr12 04Oct13 | 16Oct12 12Dec12 | None | | None | | 2.7.1.6.11[FS]; 2.7.3.2.1[FS] | 2.7.3.2.3[FS] |
| 2.7.3.2.3 | Integrate RCS partitioning | In Progress | 60d | 06May13 25Nov13 | 13Dec12 13Mar13 | None | | None | | 2.7.3.2.2[FS]; 2.7.1.3.2.6[FS] | 2.9.4.6.14[FS] |
| 2.7.3.3 | Consultation | In Progress | 1024d | 01Oct09 28Oct13 | 01Oct09 27Sep13 | None | | None | | | |
| 2.7.3.3.1 | Consultation - FY08 | Complete | 1d | 01Oct09 01Oct09 | 01Oct09 01Oct09 | None | | None | | | |
| 2.7.3.3.2 | Consultation - FY09 | Complete | 1d | 01Oct09 01Oct09 | 01Oct09 01Oct09 | None | | None | | | 2.7.3.3.3[SS] |
| 2.7.3.3.3 | Consultation - FY10 | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.7.3.3.2[SS] | 2.7.3.3.4[FS] |
| 2.7.3.3.4 | Consultation - FY11 | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.3.3.3[FS] | 2.7.3.3.5[FS] |
| 2.7.3.3.5 | Consultation - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.3.3.4[FS] | 2.7.3.6.9[FF]; 2.7.3.3.6[FS] |
| 2.7.3.3.6 | Consultation - FY13 | In Progress | 250d | 01Oct12 28Oct13 | 01Oct12 27Sep13 | None | | None | | 2.7.3.6.9[FF]; 2.7.3.3.5[FS] | |
| 2.7.3.3.7 | Support DCM/TDU boot loader - FY12 | Complete | 79d | 01Jun12 28Sep12 | 03Jan12 28Sep12 | None | | None | | 2.7.3.1.4[FS] | |
| 2.7.3.4 | Computing Cluster Integration | In Progress | 402d | 01Mar12 02Oct13 | 01Mar12 28Oct13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.3.4.1 | Install and debug first 1/3 of computing cluster | Complete | 5d | 01Mar12 07Mar12 | 01Mar12 07Mar12 | None | | None | | 2.7.2.5.11[FS] | 2.9.4.5.110[FS]; 2.9.4.5.1[FS]; 2.7.3.4.2[FS] |
| 2.7.3.4.2 | Install and debug second 1/3 of computing cluster | Planned | 5d | 28Aug13 04Sep13 | 20Feb13 26Feb13 | None | | None | | 2.7.2.5.15[FS]; 2.7.3.4.1[FS] | 2.9.4.5.115[FS]; 2.9.4.5.6[FS]; 2.7.3.4.3[FS] |
| 2.7.3.4.3 | Install and debug third 1/3 of computing cluster | Planned | 5d | 26Sep13 02Oct13 | 22Oct13 28Oct13 | None | | None | | 2.7.2.5.18[FS]; 2.7.3.4.2[FS] | 2.9.4.5.120[FS]; 2.9.4.5.11[FS] |
| 2.7.3.5 | Planning and Integration of Far Detector Electronics | In Progress | 322d | 23Apr12 01Aug13 | 02Apr12 28Sep12 | None | | None | | | |
| 2.7.3.5.1 | Travel to Ash River for electronics integration and planning | In Progress | 127d | 23Apr12 01Aug13 | 02Apr12 28Sep12 | None | | None | | 2.7.5.6.2[SS] | 2.7.5.7.2[FF] |
| 2.7.3.5.2 | Integrate timing system at Ash River | Complete | 10d | 23Apr12 16Jan13 | 25May12 08Jun12 | None | | None | | 2.7.2.2.6.5.2[FS]; 2.7.2.2.6.5.1[FS] | 2.7.3.2.1[FS] |
| 2.7.3.5.3 | Integrate and debug electronics at Ash River | In Progress | 10d | 23Apr12 02Jul13 | 30May12 12Jun12 | None | | None | | 2.7.2.1.2.9.2[FS]; 2.7.2.1.2.9.1[FS] | 2.9.4.5.2[FS]; 2.9.4.5.111[FS] |
| 2.7.3.6 | Data Acquisition System Qualification | In Progress | 398d | 02Apr12 28Oct13 | 02Apr12 28Sep12 | None | | None | | | |
| 2.7.3.6.1 | Development of V4 DCM qualification tests | Complete | 21d | 02Apr12 30Apr12 | 02Apr12 30Apr12 | None | | None | | 2.7.2.1.2.2[FS] | 2.7.3.6.2[FS] |
| 2.7.3.6.2 | Development of production TDU qualification tests | Complete | 10d | 01Jun12 26Sep12 | 01May12 14May12 | None | | None | | 2.7.3.6.1[FS] | 2.7.3.6.7[FS]; 2.7.3.6.3[FS]; 2.7.3.6.4[FS] |
| 2.7.3.6.3 | Qualification and debugging of V4 DCMs and DCM firmware | In Progress | 23d | 22Aug12 02Jul13 | 15May12 15Jun12 | None | | None | | 2.7.3.6.2[FS] | 2.7.3.6.8[FS] |
| 2.7.3.6.4 | Qualification and debugging of production TDUs and TDU firmware | Complete | 33d | 09Jul12 16Jan13 | 15May12 29Jun12 | None | | None | | 2.7.3.6.2[FS] | 2.7.3.6.8[FS]; 2.7.3.6.5[SS+5d] |
| 2.7.3.6.5 | DCM and TDU integration with far detector computing resources | In Progress | 22d | 19Sep12 05Jul13 | 22May12 21Jun12 | None | | None | | 2.7.3.6.4[SS+5d] | 2.7.3.6.8[FS] |
| 2.7.3.6.6 | Qualification debugging and characterization of DAQ messaging on far detector | Planned | 21d | 01Jul13 30Jul13 | 01Jun12 29Jun12 | None | | None | | 2.7.1.2.2.5[FS] | 2.7.3.6.10[FS]; 2.7.3.6.8[FS] |
| 2.7.3.6.7 | Deployment and integration of DAQ software at Ash River | Complete | 54d | 08Aug12 20Feb13 | 15May12 31Jul12 | None | | None | | 2.7.3.6.2[FS] | 2.7.3.6.10[FS]; 2.7.3.6.8[FF] |
| 2.7.3.6.8 | Far Detector DAQ validation and stress testing | Planned | 21d | 31Jul13 28Aug13 | 02Jul12 31Jul12 | None | | None | | 2.7.3.6.3[FS]; 2.7.3.6.5[FS]; 2.7.3.6.4[FS]; 2.7.3.6.6[FS]; 2.7.3.6.7[FF] | 2.7.3.6.10[FS] |
| 2.7.3.6.9 | Consultation on data acquistion system qualification | Planned | 84d | 01Jul13 28Oct13 | 01Jun12 28Sep12 | None | | None | | 2.7.3.3.5[FF] | 2.7.3.3.6[FF] |
| 2.7.3.6.10 | Far Detector DAQ certified for operations | Planned | 0 | 28Aug13 28Aug13 | 31Jul12 31Jul12 | None | | None | | 2.7.3.6.6[FS]; 2.7.3.6.8[FS]; 2.7.3.6.7[FS] | 2.9.4.6.5[FS] |
| 2.7.4 | Detector Control System | In Progress | 539d | 06Jan12 27Feb14 | 01Jun11 18Nov13 | None | | None | | 2.10.8.2[FS] | |
| 2.7.4.1 | Detector Control System Procurement and Fabrication (Far Detector) | In Progress | 415d | 06Jan12 27Aug13 | 01Jun11 28Sep12 | None | | None | | | |
| 2.7.4.1.1 | Detector Controls Computing Hardware and Infrastructure Procurement (Far Detector) | In Progress | 415d | 06Jan12 27Aug13 | 01Feb12 28Sep12 | None | | None | | | |
| 2.7.4.1.1.1 | Procure DCS Master control servers w/ video display interfaces | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.1.2.5.23[FS-1d]; 2.1.2.3.5[FS-100d] | 2.7.4.1.1.2[SS]; 2.7.4.2.1[FS] |
| 2.7.4.1.1.2 | Procure DCS readout IOC nodes (part 1) | Complete | 20d | 06Jan12 17Jan12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.1[SS] | 2.7.4.4.7.1[FS]; 2.7.4.1.1.16[FS]; 2.7.4.1.1.3[SS]; 2.7.4.2.2[FS] |
| 2.7.4.1.1.3 | Procure DCS far site local logger station w/ 3TB raid | Complete | 20d | 18Jan12 23Jan12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.2[SS] | 2.7.4.1.1.4[SS]; 2.7.4.2.3[FS] |
| 2.7.4.1.1.4 | Procure DCS display consoles for far site and FNAL controls | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.3[SS] | 2.7.4.1.1.5[SS]; 2.7.4.2.5[FS] |
| 2.7.4.1.1.5 | Procure DCS far site server cabinets (42U 19inch rack) | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.4[SS] | 2.7.4.1.1.6[SS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.6 | Procure DCS KVM switch for readout node cluster | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.5[SS] | 2.7.4.1.1.7[SS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.7 | Procure network cabling for DCS readout farm | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.6[SS] | 2.7.4.1.1.8[SS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.8 | Procure power protection circuits | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.7[SS] | 2.7.4.1.1.9[SS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.9 | Procure power backup device (10kVA UPS) | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.8[SS] | 2.7.4.1.1.10[SS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.10 | Procure DCS mobil stations | Complete | 20d | 01Nov12 30Nov12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.9[SS] | 2.7.4.1.1.11[SS]; 2.7.4.2.6[FS] |
| 2.7.4.1.1.11 | Procure DCS master buffered gigabit ethernet switch | Complete | 20d | 01Mar12 15Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.10[SS] | 2.7.4.1.1.12[SS]; 2.7.4.2.6[FS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.12 | Procure DCS second level 24 port gigabit switches | Complete | 20d | 01Mar12 15Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.11[SS] | 2.7.4.1.1.13[SS]; 2.7.4.2.6[FS]; 2.7.4.2.4[FS] |
| 2.7.4.1.1.13 | Procure DCS wireless access points (far hall) | Complete | 20d | 01Mar12 15Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.12[SS] | 2.7.4.1.1.14[SS]; 2.7.4.2.6[FS] |
| 2.7.4.1.1.14 | Procure network cabling for DCS readouts (far hall) | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.13[SS] | 2.7.4.1.1.15[SS]; 2.7.4.2.6[FS] |
| 2.7.4.1.1.15 | Procure fiber interconnect (second level switch to master) | Complete | 20d | 01Mar12 28Mar12 | 01Feb12 28Feb12 | None | | None | | 2.7.4.1.1.14[SS] | 2.7.4.2.6[FS] |
| 2.7.4.1.1.16 | Procure DCS readout IOC nodes (part 2) | Planned | 22d | 01Jul13 31Jul13 | 01Mar12 30Mar12 | None | | None | | 2.7.4.1.1.2[FS] | 2.7.4.1.1.17[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.4.1.1.17 | Procure DCS readout IOC nodes (part 3) | Planned | 19d | 01Aug13 27Aug13 | 04Sep12 28Sep12 | None | | None | | 2.7.4.1.1.16[FS] | |
| 2.7.4.1.2 | Detector Controls Readout Hardware Procurement (Far Detector) | Complete | 245d | 06Jan12 21Dec12 | 01Jun11 29Sep11 | None | | None | | | |
| 2.7.4.1.2.1 | Procure water pumping/cooling and environmental readout stations (Fieldpoints) | Complete | 85d | 03Dec12 21Dec12 | 01Jun11 29Sep11 | None | | None | | 2.1.2.5.23[FS-1d]; 2.1.2.3.5[FS-100d] | 2.7.4.3.1[FS]; 2.7.4.1.2.2[SS] |
| 2.7.4.1.2.2 | Procure RS485 readout interface cards | Complete | 20d | 01Nov12 30Nov12 | 01Jun11 28Jun11 | None | | None | | 2.7.4.1.2.1[SS] | 2.7.4.1.2.3[SS] |
| 2.7.4.1.2.3 | Procure sensor packs for water systems, env, rack mon. | Complete | 60d | 06Jan12 30Nov12 | 01Jun11 24Aug11 | None | | None | | 2.7.4.1.2.2[SS] | 2.7.4.4.8.5[FS]; 2.7.4.3.2[FS] |
| 2.7.4.2 | Computer Systems Installation (Far Detector) | Complete | 129d | 01Mar12 30Aug12 | 29Feb12 19Apr12 | None | | None | | | |
| 2.7.4.2.1 | Configure and test master control server | Complete | 4d | 01Mar12 28Mar12 | 29Feb12 05Mar12 | None | | None | | 2.1.2.5.23[FS]; 2.1.2.3.5[FS]; 2.7.4.1.1.1[FS] | 2.7.4.2.2[FS] |
| 2.7.4.2.2 | Configure and test readout IOC nodes | Complete | 15d | 01Mar12 28Mar12 | 06Mar12 26Mar12 | None | | None | | 2.7.4.2.1[FS]; 2.7.4.1.1.2[FS] | 2.7.4.2.3[FS] |
| 2.7.4.2.3 | Configure and test data logging server | Complete | 4d | 01Mar12 28Mar12 | 27Mar12 30Mar12 | None | | None | | 2.7.4.2.2[FS]; 2.7.4.1.1.3[FS] | 2.7.4.2.4[FS] |
| 2.7.4.2.4 | Install servers and switches in far site eletronics room | Complete | 2d | 01Mar12 28Mar12 | 02Apr12 03Apr12 | None | | None | | 2.7.4.1.1.9[FS]; 2.7.4.1.1.11[FS]; 2.7.4.1.1.8[FS]; 2.7.4.1.1.12[FS]; 2.7.4.1.1.5[FS]; 2.7.4.1.1.7[FS]; 2.7.4.1.1.6[FS]; 2.7.4.2.3[FS] | 2.7.4.2.5[FS] |
| 2.7.4.2.5 | Install control room displays and monitoring facilities | Complete | 2d | 01Mar12 28Mar12 | 04Apr12 05Apr12 | None | | None | | 2.7.4.2.4[FS]; 2.7.4.1.1.4[FS] | 2.7.4.2.6[FS] |
| 2.7.4.2.6 | Install DCSNet network infrastructure and switches | Complete | 4d | 01Mar12 28Mar12 | 06Apr12 11Apr12 | None | | None | | 2.7.4.2.5[FS]; 2.7.4.1.1.10[FS]; 2.7.4.1.1.11[FS]; 2.7.4.1.1.13[FS]; 2.7.4.1.1.12[FS]; 2.7.4.1.1.15[FS]; 2.7.4.1.1.14[FS] | 2.7.4.2.7[FS] |
| 2.7.4.2.7 | Verify network and cluster stablity at far site | Complete | 4d | 01Mar12 28Mar12 | 12Apr12 17Apr12 | None | | None | | 2.7.4.2.6[FS] | 2.7.4.2.8[FS] |
| 2.7.4.2.8 | Perform security audit of far detector computer systems (OBSOLETE) | Complete | 2d | 29Aug12 30Aug12 | 18Apr12 19Apr12 | None | | None | | 2.7.4.2.7[FS] | 2.7.4.4.9[FS] |
| 2.7.4.3 | Readout Systems Installation in Far Detector Hall (Block 1) | Complete | 3d | 06Nov12 08Nov12 | 08Jun12 13Jun12 | None | | None | | | |
| 2.7.4.3.1 | Install field point stations for block 1 | Complete | 4d | 06Nov12 08Nov12 | 08Jun12 13Jun12 | None | | None | | 2.9.4.5.1[SS]; 2.7.4.1.2.1[FS] | 2.7.4.4.9[FS] |
| 2.7.4.3.2 | Install sensor packs for block 1 | Complete | 4d | 06Nov12 08Nov12 | 08Jun12 13Jun12 | None | | None | | 2.9.4.5.1[SS]; 2.7.4.1.2.3[FS] | 2.7.4.4.9[FS] |
| 2.7.4.3.3 | Install readout connections to misc. devices for block 1 | Complete | 4d | 06Nov12 08Nov12 | 08Jun12 13Jun12 | None | | None | | 2.9.4.5.1[SS] | 2.7.4.4.9[FS] |
| 2.7.4.4 | Detector Control System Commissioning | In Progress | 378d | 02Apr12 30Sep13 | 02Apr12 30Sep13 | None | | None | | | |
| 2.7.4.4.1 | Test DCS subsystem readout (OBSOLETE) | Complete | 1d | 02Apr12 02Apr12 | 02Apr12 02Apr12 | None | | None | | | 2.7.4.4.2[FS] |
| 2.7.4.4.2 | Test DCS subsystem alarm notification (OBSOLETE) | Complete | 1d | 03Apr12 03Apr12 | 03Apr12 03Apr12 | None | | None | | 2.7.4.4.1[FS] | 2.7.4.4.3[FS] |
| 2.7.4.4.3 | Test DCS subsystem controls (OBSOLETE) | Complete | 1d | 04Apr12 04Apr12 | 04Apr12 04Apr12 | None | | None | | 2.7.4.4.2[FS] | 2.7.4.4.4[FS] |
| 2.7.4.4.4 | Test DCS remote operations (OBSOLETE) | Complete | 1d | 05Apr12 05Apr12 | 05Apr12 05Apr12 | None | | None | | 2.7.4.4.3[FS] | 2.7.4.4.5[FS] |
| 2.7.4.4.5 | Test DCS full-scale integration (OBSOLETE) | Complete | 1d | 06Apr12 06Apr12 | 06Apr12 06Apr12 | None | | None | | 2.7.4.4.4[FS] | 2.7.4.5[FS] |
| 2.7.4.4.7 | On-board DCS Software | In Progress | 378d | 02Apr12 30Sep13 | 02Apr12 30Sep13 | None | | None | | | |
| 2.7.4.4.7.1 | Develop phase 1 | Complete | 21d | 02Apr12 30Apr12 | 02Apr12 30Apr12 | None | | None | | 2.7.4.1.1.2[FS] | 2.7.4.4.7.2[FS] |
| 2.7.4.4.7.2 | Develop phase 2 | Complete | 22d | 15May12 30Jul12 | 01May12 31May12 | None | | None | | 2.7.4.4.7.1[FS] | 2.7.4.4.7.3[FS] |
| 2.7.4.4.7.3 | Develop phase 3 | Complete | 21d | 01Aug12 27Sep12 | 01Jun12 29Jun12 | None | | None | | 2.7.4.4.7.2[FS] | 2.7.4.4.7.4[FS] |
| 2.7.4.4.7.4 | Test on-board DCS software | Complete | 21d | 27Sep12 05Dec12 | 02Jul12 31Jul12 | None | | None | | 2.7.4.4.7.3[FS] | 2.7.4.4.7.5[FS] |
| 2.7.4.4.7.5 | Evaluate system at Far Site | Complete | 23d | 03Dec12 25Feb13 | 01Aug12 31Aug12 | None | | None | | 2.7.4.4.7.4[FS] | 2.7.4.4.9[FS]; 2.7.4.4.7.6[FS-11d] |
| 2.7.4.4.7.6 | Onboard DCS maintenance (EPICS) - FY13 | In Progress | 190d | 02Jan13 30Sep13 | 02Jan13 30Sep13 | None | | None | | 2.7.4.4.7.5[FS-11d] | 2.10.9.1[FS] |
| 2.7.4.4.8 | External DCS Software | In Progress | 368d | 16Apr12 30Sep13 | 16Apr12 30Sep13 | None | | None | | | |
| 2.7.4.4.8.1 | Install ACNET software at Far Site | Complete | 33d | 16Apr12 25Jul12 | 16Apr12 31May12 | None | | None | | | 2.7.4.4.8.2.1[FS] |
| 2.7.4.4.8.2 | ACNET Software Scaled to Box | Complete | 154d | 15May12 21Dec12 | 01Jun12 31Jul12 | None | | None | | | |
| 2.7.4.4.8.2.1 | ACNET stability testing | Complete | 21d | 15May12 29Aug12 | 01Jun12 29Jun12 | None | | None | | 2.7.4.4.8.1[FS] | 2.7.4.4.8.2.2[FS] |
| 2.7.4.4.8.2.2 | ACNET performance testing | Complete | 21d | 04Sep12 21Dec12 | 02Jul12 31Jul12 | None | | None | | 2.7.4.4.8.2.1[FS] | 2.7.4.6.1[FS] |
| 2.7.4.4.8.3 | Power supply monitor | Complete | 22d | 01May12 30Nov12 | 01May12 31May12 | None | | None | | | 2.7.4.4.8.7[FF]; 2.7.4.4.8.8[FF]; 2.7.4.4.8.4[FS] |
| 2.7.4.4.8.4 | Water cooling | Complete | 21d | 01Jun12 11Feb13 | 01Jun12 29Jun12 | None | | None | | 2.7.4.4.8.3[FS] | 2.7.4.4.8.8[FF]; 2.7.4.4.8.5[FS]; 2.7.4.4.8.7[FF] |
| 2.7.4.4.8.5 | Environmental monitor | Complete | 21d | 09Jul12 29Aug12 | 02Jul12 31Jul12 | None | | None | | 2.7.4.4.8.4[FS]; 2.7.4.1.2.3[FS] | 2.7.4.4.8.7[FF]; 2.7.4.4.8.8[FF]; 2.7.4.4.8.6[FS] |
| 2.7.4.4.8.6 | Structural monitor | Complete | 23d | 01Feb13 20Feb13 | 01Aug12 31Aug12 | None | | None | | 2.7.4.4.8.5[FS] | 2.7.4.4.8.7[FF]; 2.7.4.4.8.8[FF] |
| 2.7.4.4.8.7 | Develop ACNET alarms | Complete | 44d | 02Jul12 31May13 | 02Jul12 31Aug12 | None | | None | | 2.7.4.4.8.3[FF]; 2.7.4.4.8.6[FF]; 2.7.4.4.8.5[FF]; 2.7.4.4.8.4[FF] | 2.7.4.4.8.9[FS] |
| 2.7.4.4.8.8 | Develop ACNET GUI | Complete | 44d | 25Sep12 30Nov12 | 02Jul12 31Aug12 | None | | None | | 2.7.4.4.8.4[FF]; 2.7.4.4.8.6[FF]; 2.7.4.4.8.3[FF]; 2.7.4.4.8.5[FF] | 2.7.4.4.8.9[FS] |
| 2.7.4.4.8.9 | Develop ACNET logging | Complete | 19d | 20Feb13 31May13 | 04Sep12 28Sep12 | None | | None | | 2.7.4.4.8.8[FS]; 2.7.4.4.8.7[FS] | 2.7.4.4.8.10[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.4.4.8.10 | Test external DCS software | Complete | 23d | 25Feb13 29Mar13 | 01Oct12 31Oct12 | None | | None | | 2.7.4.4.8.9[FS] | 2.7.4.4.9[FS]; 2.7.4.6.1[FS]; 2.7.4.4.8.11[FS-81d] |
| 2.7.4.4.8.11 | External DCS maintenance (ACNET) - FY13 | In Progress | 190d | 02Jan13 30Sep13 | 02Jan13 30Sep13 | None | | None | | 2.7.4.4.8.10[FS-81d] | 2.10.9.1[FS] |
| 2.7.4.4.9 | Integration of subsystems into DCS completed | Complete | 0 | 31May13 31May13 | 31Oct12 31Oct12 | None | | None | | 2.7.4.3.1[FS]; 2.7.4.4.8.10[FS]; 2.7.4.2.8[FS]; 2.7.4.3.2[FS]; 2.7.4.4.7.5[FS]; 2.7.4.3.3[FS] | 2.7.4.6.1[FS]; 2.7.4.8[FF] |
| 2.7.4.5 | DCS production operations certification - stage 1 (OBSOLETE) | Complete | 1d | 09Apr12 09Apr12 | 09Apr12 09Apr12 | None | | None | | 2.7.4.4.5[FS] | |
| 2.7.4.6 | Full-scale Far Site Readout Systems Installation (Blocks 2-20) | Complete | 10d | 01Aug12 14Aug12 | 31Aug12 26Feb13 | None | | None | | | |
| 2.7.4.6.1 | Install full scale far site readout systems - superblock 1 (OBSOLETE) | Complete | 10d | 01Aug12 14Aug12 | 31Aug12 14Sep12 | None | | None | | 2.7.4.4.9[FS]; 2.7.4.4.8.10[FS]; 2.7.4.4.8.2.2[FS]; 2.9.4.3.8[FS] | 2.7.4.6.2[FS] |
| 2.7.4.6.2 | Install full scale far site readout systems - superblock 2 (OBSOLETE) | Complete | 10d | 01Aug12 14Aug12 | 17Sep12 28Sep12 | None | | None | | 2.9.4.3.14[FS]; 2.7.4.6.1[FS] | 2.7.4.6.3[FS] |
| 2.7.4.6.3 | Install full scale far site readout systems - superblock 3 (OBSOLETE) | Complete | 10d | 01Aug12 14Aug12 | 05Nov12 16Nov12 | None | | None | | 2.7.4.6.2[FS]; 2.9.4.3.20[FS] | 2.7.4.6.4[FS] |
| 2.7.4.6.4 | Install full scale far site readout systems - superblock 4 (OBSOLETE) | Complete | 10d | 01Aug12 14Aug12 | 13Feb13 26Feb13 | None | | None | | 2.9.4.3.26[FS]; 2.7.4.6.3[FS] | 2.7.4.7[FS]; 2.7.4.9.1[FS] |
| 2.7.4.7 | Conduct DCS load scaling and performance review (OBSOLETE) | Complete | 10d | 01Aug12 14Aug12 | 27Feb13 12Mar13 | None | | None | | 2.7.4.6.4[FS] | 2.7.4.10[FS] |
| 2.7.4.8 | DCS load scaling and performance review completed | Complete | 0 | 29Mar13 29Mar13 | 12Mar13 12Mar13 | None | | None | | 2.7.4.4.9[FF] | 2.7.4.10[FS] |
| 2.7.4.9 | Full-scale Far Site Readout Systems Installation (Blocks 21-33) | Complete | 1d | 01Nov12 01Nov12 | 15May13 29Aug13 | None | | None | | | |
| 2.7.4.9.1 | Install full scale far site readout systems - superblock 5 (OBSOLETE) | Complete | 10d | 01Nov12 01Nov12 | 15May13 29May13 | None | | None | | 2.7.4.6.4[FS]; 2.9.4.3.32[FS] | 2.7.4.9.2[FS] |
| 2.7.4.9.2 | Install full scale far site readout systems - superblock 6 (OBSOLETE) | Complete | 10d | 01Nov12 01Nov12 | 16Aug13 29Aug13 | None | | None | | 2.7.4.9.1[FS]; 2.9.4.3.38[FS] | 2.7.4.9.3[FS] |
| 2.7.4.10 | Conduct DCS full production system review | Planned | 10d | 14Feb14 27Feb14 | 05Nov13 18Nov13 | None | | None | | 2.7.4.8[FS]; 2.7.4.9.3[FS]; 2.7.4.7[FS] | 2.10.9.1[FS] |
| 2.7.5 | Management - Construction Phase | In Progress | 1506d | 01Oct07 27Sep13 | 01Oct07 27Sep13 | None | | None | | | |
| 2.7.5.2 | FY08 | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.7.5.2.1 | Labor (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.7.5.3.1[FS] |
| 2.7.5.2.2 | Travel (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.7.5.3.2[FS] |
| 2.7.5.2.3 | Equipment (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.7.5.3.3[FS] |
| 2.7.5.2.4 | Materials and supplies (Obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.7.5.3.4[FS] |
| 2.7.5.3 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.7.5.3.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.7.5.2.1[FS]; 2.10.9.5[FS] | 2.7.5.4.1[FS] |
| 2.7.5.3.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS]; 2.7.5.2.2[FS] | 2.7.5.4.2[FS] |
| 2.7.5.3.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS]; 2.7.5.2.3[FS] | 2.7.5.4.3[FS] |
| 2.7.5.3.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS]; 2.7.5.2.4[FS] | 2.7.5.4.4[FS] |
| 2.7.5.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.7.5.4.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.7.5.3.1[FS] | 2.7.5.5.1[FS] |
| 2.7.5.4.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.7.5.3.2[FS] | 2.7.5.5.2[FS] |
| 2.7.5.4.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.7.5.3.3[FS] | 2.7.5.5.3[FS] |
| 2.7.5.4.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.7.5.3.4[FS] | 2.7.5.5.4[FS] |
| 2.7.5.4.5 | Labor - supplemental | Complete | 170d | 01Feb10 30Sep10 | 01Feb10 29Sep10 | None | | None | | | |
| 2.7.5.4.6 | Travel - supplemental | Complete | 170d | 01Feb10 30Sep10 | 01Feb10 29Sep10 | None | | None | | | |
| 2.7.5.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.7.5.5.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.5.4.1[FS] | 2.7.5.6.1[FS] |
| 2.7.5.5.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.5.4.2[FS] | 2.7.5.6.2[FS] |
| 2.7.5.5.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.5.4.3[FS] | 2.7.5.6.3[FS] |
| 2.7.5.5.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.7.5.4.4[FS] | 2.7.5.6.4[FS] |
| 2.7.5.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.7.5.6.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.5.5.1[FS] | 2.7.5.6.5[SS]; 2.7.5.7.1[FS] |
| 2.7.5.6.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.5.5.2[FS] | 2.7.3.5.1[SS]; 2.7.5.7.2[FS] |
| 2.7.5.6.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.5.5.3[FS] | 2.7.5.7.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.7.5.6.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.7.5.5.4[FS] | 2.7.5.7.4[FS] |
| 2.7.5.6.5 | Labor - supplemental | Complete | 127d | 02Apr12 28Sep12 | 02Apr12 28Sep12 | None | | None | | 2.7.5.6.1[SS] | 2.7.5.7.1[FS] |
| 2.7.5.7 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.7.5.7.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.7.5.6.5[FS]; 2.7.5.6.1[FS] | |
| 2.7.5.7.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.7.3.5.1[FF]; 2.7.5.6.2[FS] | |
| 2.7.5.7.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.7.5.6.3[FS] | |
| 2.7.5.7.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.7.5.6.4[FS] | |
| 2.8 | Near Detector Assembly | In Progress | 1622d | 01Oct07 19Mar14 | 01Oct07 24Jan14 | None | | None | | | |
| 2.8.1 | Near Detector Site Preparation | In Progress | 1371d | 01Feb08 15Jul13 | 02Feb09 28Jun13 | None | | None | | | |
| 2.8.1.1 | Cave Excavation Design and Engineering | Complete | 1197d | 01Feb08 31Oct12 | 02Feb09 30Mar12 | None | | None | | | |
| 2.8.1.1.1 | Finalize location of cave to be excavated | Complete | 60d | 01Feb08 06Nov08 | 02Feb09 24Apr09 | None | | None | | 2.10.9.7[FS]; 1.9.4.3[FS] | 2.8.1.2.4.2[FS]; 2.8.1.2.3[FS]; 2.8.1.1.2[SS] |
| 2.8.1.1.2 | Contract with engineering firm to specify excavation methodology and details | Complete | 60d | 02Apr08 06Nov08 | 02Feb09 24Apr09 | None | | None | | 2.8.1.1.1[SS]; 2.8.1.1.4[SS] | 2.8.1.1.3[SS]; 2.8.1.1.5[FS] |
| 2.8.1.1.3 | Provide FESS liaison for cave design | Complete | 60d | 02Apr08 31Oct12 | 02Feb09 24Apr09 | None | | None | | 2.8.1.1.2[SS] | |
| 2.8.1.1.4 | Finalize size of cave to be excavated | Complete | 60d | 02Apr08 29Oct10 | 02Feb09 24Apr09 | None | | None | | 2.10.9.7[FS]; 1.9.4.3[FS] | 2.8.1.2.4.2[FS]; 2.8.1.2.3[FS]; 2.8.1.1.2[SS] |
| 2.8.1.1.5 | Design review: ND excavation | Complete | 10d | 01Feb12 29Feb12 | 27Apr09 08May09 | None | | None | | 1.8.4.5[FS]; 2.8.1.1.2[FS] | 2.8.1.1.6[FS]; 2.8.1.2.5[FS] |
| 2.8.1.1.6 | Administrative and safety signoffs on near detector cavern excavation design | Complete | 0 | 29Feb12 29Feb12 | 08May09 08May09 | None | | None | | 2.8.1.1.5[FS] | 2.8.1.2.6[FS]; 2.8.1.4.1[FS-46d] |
| 2.8.1.1.7 | Final design of Near Detector cavern | Complete | 63d | 03Jan12 30Mar12 | 03Jan12 30Mar12 | None | | None | | 1.8.4.5[FS] | 2.8.1.4.4[FS] |
| 2.8.1.2 | Tunnel and Cave Infrastructure Design and Engineering | Complete | 474d | 15Dec10 31Oct12 | 27Apr09 02Aug10 | None | | None | | | |
| 2.8.1.2.1 | Determine new route for MINOS cables | Complete | 5d | 15Dec10 31May11 | 01Oct09 07Oct09 | None | | None | | 2.10.8.2[FS] | 2.8.1.3.1[FS]; 2.8.1.2.7[FS]; 2.8.1.2.2[SS] |
| 2.8.1.2.2 | Design/specify lighting for new cavern | Complete | 5d | 15Dec10 31May11 | 13Jul10 19Jul10 | None | | None | | 1.8.5.7.12[FS]; 2.8.1.2.1[SS] | 2.8.1.3.1[FS]; 2.8.1.2.7[FS] |
| 2.8.1.2.3 | Specify ventilation for new cavern | Complete | 15d | 15Dec10 31May11 | 27Apr09 15May09 | None | | None | | 2.8.1.1.4[FS]; 2.8.1.1.1[FS] | 2.8.1.3.1[FS]; 2.8.1.2.7[FS] |
| 2.8.1.2.4 | Near Detector Electrical Power Needs | Complete | 105d | 03Jan11 31May11 | 01Oct09 25Nov09 | None | | None | | | |
| 2.8.1.2.4.1 | Specify power requirements | Complete | 20d | 03Jan11 31May11 | 01Oct09 28Oct09 | None | | None | | 2.10.8.2[FS] | 2.8.1.2.7[FS]; 2.8.1.2.5[FS]; 2.8.1.2.4.2[FS] |
| 2.8.1.2.4.2 | Engineer power sourcing and distribution | Complete | 20d | 03Jan11 31May11 | 29Oct09 25Nov09 | None | | None | | 2.8.1.1.1[FS]; 2.8.1.1.4[FS]; 2.8.1.2.4.1[FS] | 2.8.1.3.1[FS]; 2.8.1.2.7[FS] |
| 2.8.1.2.5 | Design/engineer fire protection for Near Detector | Complete | 20d | 03Jan11 31May11 | 29Oct09 25Nov09 | None | | None | | 2.8.1.2.4.1[FS]; 2.8.1.1.5[FS] | 2.8.1.3.1[FS]; 2.8.1.2.7[FS] |
| 2.8.1.2.6 | Engineer detector access platform | Complete | 10d | 03Jan11 31May11 | 11May09 22May09 | None | | None | | 2.8.1.1.6[FS] | 2.8.1.3.14[FS]; 2.8.1.2.7[FS] |
| 2.8.1.2.7 | Design review: ND cavern infrastructure | Complete | 10d | 14May12 31Oct12 | 20Jul10 02Aug10 | None | | None | | 2.8.1.2.4.1[FS]; 2.8.1.2.2[FS]; 2.8.1.2.1[FS]; 2.8.1.2.6[FS]; 2.8.1.2.3[FS]; 2.8.1.2.4.2[FS]; 2.8.1.2.5[FS] | |
| 2.8.1.3 | Tunnel Infrastructure Contract | Complete | 525d | 01Oct10 31Oct12 | 31Jan11 31Aug12 | None | | None | | | |
| 2.8.1.3.1 | Prepare bid documents | Complete | 20d | 01Oct10 07Oct10 | 31Jan11 25Feb11 | None | | None | | 2.8.1.2.4.2[FS]; 2.8.1.2.3[FS]; 2.8.1.2.2[FS]; 2.8.1.2.5[FS]; 2.8.1.2.1[FS]; 2.8.1.3.18[FS-12d] | 2.8.1.3.2[FS] |
| 2.8.1.3.2 | Solicit bids | Complete | 20d | 11Oct10 11Oct10 | 28Feb11 25Mar11 | None | | None | | 2.8.1.3.1[FS] | 2.8.1.3.3[FS] |
| 2.8.1.3.3 | Select contractor | Complete | 20d | 01Mar12 16Apr12 | 02Jun11 14Jul11 | None | | None | | 2.8.1.3.2[FS] | 2.8.1.3.4[FS]; 2.8.1.4.3[FF] |
| 2.8.1.3.4 | Award ND tunnel infrastructure contract | Complete | 0 | 16Apr12 16Apr12 | 28Oct11 28Oct11 | None | | None | | 2.8.1.3.3[FS] | 2.8.1.3.5[FS+14d] |
| 2.8.1.3.5 | Notice to Proceed on phase 1 of ND tunnel infrastructure contract | Complete | 0 | 07May12 07May12 | 14Nov11 14Nov11 | None | | None | | 2.8.1.3.4[FS+14d] | 2.8.1.3.20[FS]; 2.8.1.4.4[SS]; 2.8.1.3.22[FS]; 2.8.1.4.6[FS]; 2.8.1.3.21[FS] |
| 2.8.1.3.6 | Install new MINOS infrastructure supports (OBSOLETE) | Complete | 1d | 20Apr12 20Apr12 | 20Apr12 20Apr12 | None | | None | | 2.10.10.5[FS] | 2.8.1.3.7[FS] |
| 2.8.1.3.7 | Notice to Proceed on phase 2 of ND tunnel infrastructure contract (OBSOLETE) | Complete | 0 | 23Apr12 23Apr12 | 23Apr12 23Apr12 | None | | None | | 2.10.10.5[FS]; 2.8.1.3.6[FS] | 2.8.1.3.8[FS]; 2.8.1.3.10[FS]; 2.8.1.3.9[FS]; 2.8.1.3.11[FS] |
| 2.8.1.3.8 | Reposition MINOS infrastructure (OBSOLETE) | Complete | 1d | 23Apr12 23Apr12 | 20Jul11 02Aug11 | None | | None | | 2.8.1.3.7[FS] | 2.8.1.3.13[FS]; 2.8.1.9[FS] |
| 2.8.1.3.9 | Lighting portion of contract (OBSOLETE) | Complete | 1d | 23Apr12 23Apr12 | 23Apr12 23Apr12 | None | | None | | 2.8.1.3.7[FS] | 2.8.1.3.13[FS]; 2.8.1.9[FS] |
| 2.8.1.3.10 | Ventilation portion of contract (OBSOLETE) | Complete | 1d | 23Apr12 23Apr12 | 23Apr12 23Apr12 | None | | None | | 2.8.1.3.7[FS] | 2.8.1.9[FS]; 2.8.1.3.13[FS] |
| 2.8.1.3.11 | Electrical Power portion of contract (OBSOLETE) | Complete | 1d | 23Apr12 23Apr12 | 23Apr12 23Apr12 | None | | None | | 2.8.1.3.7[FS] | 2.8.1.9[FS]; 2.8.1.3.13[FS]; 2.8.1.3.12[FS] |
| 2.8.1.3.12 | Fire Protection Systems portion of contract (OBSOLETE) | Complete | 1d | 24Apr12 24Apr12 | 24Apr12 24Apr12 | None | | None | | 2.8.1.3.11[FS] | 2.8.1.9[FS]; 2.8.1.3.13[FS] |
| 2.8.1.3.13 | Notice to Proceed on phase 3 of tunnel infrastructure contract (OBSOLETE) | Complete | 0 | 25Apr12 25Apr12 | 25Apr12 25Apr12 | None | | None | | 2.8.1.3.8[FS]; 2.8.1.3.9[FS]; 2.8.1.3.10[FS]; 2.8.1.3.11[FS]; 2.8.1.3.12[FS] | 2.8.1.3.14[FS] |
| 2.8.1.3.14 | Start detector access platform (OBSOLETE) | Complete | 1d | 25Apr12 25Apr12 | 25Apr12 25Apr12 | None | | None | | 2.8.1.2.6[FS]; 2.8.1.3.13[FS] | 2.8.2.2.1.4[FS]; 2.8.1.3.15[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.1.3.15 | Notice to Proceed on phase 4 of ND tunnel infrastructure contract (OBSOLETE) | Complete | 0 | 26Apr12 26Apr12 | 26Apr12 26Apr12 | None | | None | | 2.8.1.3.14[FS] | 2.8.1.3.16[FS] |
| 2.8.1.3.16 | Complete detector access platform (OBSOLETE) | Complete | 1d | 26Apr12 26Apr12 | 26Apr12 26Apr12 | None | | None | | 2.8.1.3.15[FS] | |
| 2.8.1.3.17 | Near detector infrastructure contract completed | Complete | 0 | 14Aug12 14Aug12 | 31Aug12 31Aug12 | None | | None | | 2.8.1.3.21[FS] | 2.8.4.3.3[FS] |
| 2.8.1.3.18 | Tunnel outfitting design | Complete | 65d | 01Mar11 31Oct12 | 01Mar11 31May11 | None | | None | | | 2.8.1.3.1[FS-12d] |
| 2.8.1.3.19 | Parallel control system for MINOS experimental hall | Complete | 25d | 15Feb12 30Mar12 | 27Feb12 30Mar12 | None | | None | | | 2.0.4.3.14[FS] |
| 2.8.1.3.20 | Mobilize | Complete | 54d | 01Jun12 25Aug12 | 01Jun12 16Aug12 | None | | None | | 2.8.1.3.5[FS] | 2.8.1.4.5[FS-12d] |
| 2.8.1.3.21 | Site preparation and utilities | Complete | 65d | 01Jun12 14Aug12 | 01Jun12 31Aug12 | None | | None | | 2.8.1.3.5[FS] | 2.8.1.4.5[FS-23d]; 2.8.1.3.17[FS] |
| 2.8.1.3.22 | Procure spare parts for MINOS 15 ton crane | Complete | 25d | 16Jul12 19Oct12 | 16Jul12 17Aug12 | None | | None | | 2.8.1.3.5[FS] | 2.8.1.9[FS] |
| 2.8.1.4 | Excavation Contract | In Progress | 406d | 01Dec11 15Jul13 | 01Jul11 28Jun13 | None | | None | | | |
| 2.8.1.4.1 | Prepare bid documents | Complete | 10d | 01Dec11 12Jan12 | 01Jul11 15Jul11 | None | | None | | 2.8.1.1.6[FS-46d] | 2.8.1.4.2[FS] |
| 2.8.1.4.2 | Solicit bids | Complete | 36d | 12Jan12 29Feb12 | 18Jul11 31Aug11 | None | | None | | 2.8.1.4.1[FS] | 2.8.1.4.3[FS] |
| 2.8.1.4.3 | Select contractor | Complete | 20d | 01Mar12 16Apr12 | 03Oct11 11Nov11 | None | | None | | 2.8.1.4.2[FS]; 2.8.1.3.3[FF] | 2.8.1.4.4[FS+14d] |
| 2.8.1.4.4 | Notice to Proceed - near detector cavern excavation | Complete | 0 | 07May12 07May12 | 07May12 07May12 | None | | None | | 2.8.1.3.5[SS]; 2.8.1.1.7[FS]; 2.8.1.4.3[FS+14d] | 2.8.1.4.5[FS] |
| 2.8.1.4.5 | Perform excavation | Complete | 124d | 15Aug12 05Nov12 | 01Aug12 31Jan13 | None | | None | | 2.8.1.3.20[FS-12d]; 2.8.1.3.21[FS-23d]; 2.8.1.4.4[FS] | 2.8.1.4.8[FS]; 2.8.1.4.12[FS+15d]; 2.8.1.7[FS+44d]; 2.8.1.4.7[FS] |
| 2.8.1.4.6 | Oversight of excavation work | Complete | 229d | 01Jun12 10May13 | 01Jun12 30Apr13 | None | | None | | 2.8.1.3.5[FS] | 2.8.1.4.13[FS] |
| 2.8.1.4.7 | Near detector cavern excavation contract completed | Planned | 0 | 01Jul13 01Jul13 | 31Jan13 31Jan13 | None | | None | | 2.8.1.4.9[FS]; 2.8.1.4.5[FS] | 2.8.1.7[FS]; 2.10.10.6[FS] |
| 2.8.1.4.8 | Concrete floor | Complete | 6d | 05Nov12 20Nov12 | 08Jan13 15Jan13 | None | | None | | 2.8.1.4.5[FS] | 2.8.1.4.9[FS] |
| 2.8.1.4.9 | Drip ceiling | Complete | 11d | 17Dec12 30Jan13 | 16Jan13 31Jan13 | None | | None | | 2.8.1.4.8[FS] | 2.8.1.4.7[FS]; 2.8.1.4.10[FS] |
| 2.8.1.4.10 | Outfitting - structural | Complete | 37d | 14Jan13 22May13 | 01Feb13 25Mar13 | None | | None | | 2.8.1.4.9[FS] | 2.8.1.4.11[FS]; 2.8.1.9[FS]; 2.8.8.3.1[FS]; 2.8.1.8[FS] |
| 2.8.1.4.11 | Outfitting - electrical and mechanical | Complete | 33d | 16Jan13 28Mar13 | 26Mar13 09May13 | None | | None | | 2.8.1.4.10[FS] | 2.8.1.7[FS]; 2.8.1.4.12[FF]; 2.8.1.5[FS]; 2.8.1.9[FS]; 2.8.1.4.15[SS]; 2.8.1.4.14[SS] |
| 2.8.1.4.12 | Demobilization | Complete | 79d | 03Dec12 26Apr13 | 25Feb13 14Jun13 | None | | None | | 2.8.1.4.11[FF]; 2.8.1.4.5[FS+15d] | 2.8.1.9[SS+47d] |
| 2.8.1.4.13 | Oversight of excavation work - additional | Complete | 31d | 13May13 31May13 | 01May13 28Jun13 | None | | None | | 2.8.1.4.6[FS] | 2.8.1.4.16[FF] |
| 2.8.1.4.14 | Furnish additional water mist system for equipment alcove | Complete | 20d | 22Apr13 26Apr13 | 01Apr13 26Apr13 | Not Earlier Than | 01Apr13 | None | | 2.8.1.4.11[SS] | 2.8.1.7[FS] |
| 2.8.1.4.15 | Raise MAP height and add second access ladder | Complete | 12d | 10Apr13 18Apr13 | 15Apr13 30Apr13 | Not Earlier Than | 15Apr13 | None | | 2.8.1.4.11[SS] | 2.8.1.7[FS] |
| 2.8.1.4.16 | Oversight of excavation work - additional 2 | In Progress | 20d | 03Jun13 15Jul13 | 03Jun13 28Jun13 | None | | None | | 2.8.1.4.13[FF] | 2.8.5.6.1[FF] |
| 2.8.1.5 | Connect and certify FIRUS | Complete | 5d | 07May13 07May13 | 04Apr13 10Apr13 | None | | None | | 2.8.1.4.11[FS]; 2.8.1.7[FS] | 2.8.1.9[SS] |
| 2.8.1.6 | Specify safety and training requirements for this region | In Progress | 5d | 24Jun13 03Jul13 | 11Apr13 17Apr13 | None | | None | | 2.8.1.9[FS] | |
| 2.8.1.7 | Beneficial occupancy of near detector cavern | Complete | 0 | 10May13 10May13 | 14Jun13 14Jun13 | None | | None | | 2.8.1.4.11[FS]; 2.8.1.4.7[FS]; 2.8.1.4.5[FS+44d]; 2.8.1.4.15[FS]; 2.8.1.4.14[FS] | 2.8.4.7.4[FS]; 2.8.8.3.3[FS]; 2.8.1.9[FS]; 2.6.3.5.8.7[FS]; 2.8.1.5[FS]; 2.8.4.7.2[FS]; 2.8.4.7.1[FS]; 2.8.4.7.3[FS]; 2.8.4.7.5[FS] |
| 2.8.1.8 | Survey location for detector | Complete | 3d | 05Feb13 07Feb13 | 11Apr13 15Apr13 | None | | None | | 2.8.1.4.10[FS] | 2.8.8.3.3[FS] |
| 2.8.1.9 | Begin Installation of Near Detector | Complete | 0 | 20Jun13 20Jun13 | 10May13 10May13 | None | | None | | 2.8.1.3.22[FS]; 2.8.1.4.12[SS+47d]; 2.8.1.4.11[FS]; 2.8.1.4.10[FS]; 2.8.1.3.12[FS]; 2.8.1.7[FS]; 2.8.1.3.9[FS]; 2.8.1.3.8[FS]; 2.8.1.3.10[FS]; 2.8.1.3.11[FS]; 2.8.1.5[SS] | 2.8.1.6[FS] |
| 2.8.2 | Mechanical Construction and Installation | In Progress | 1040d | 04Jan10 21Feb14 | 04Jan10 13Jun13 | None | | None | | | |
| 2.8.2.1 | Containment of ND Full Volume (OBSOLETE) | Complete | 4d | 01Aug12 06Aug12 | 01Aug12 06Aug12 | None | | None | | | |
| 2.8.2.1.1 | Design review: containment scheme for full ND scintillator volume (OBSOLETE) | Complete | 1d | 01Aug12 01Aug12 | 01Aug12 01Aug12 | None | | None | | | 2.8.2.1.5[FS]; 2.8.2.1.2[FS] |
| 2.8.2.1.2 | Issue P.O. for containment of full ND volume (OBSOLETE) | Complete | 1d | 02Aug12 02Aug12 | 02Aug12 02Aug12 | None | | None | | 2.8.2.1.1[FS] | 2.8.2.1.3[FS] |
| 2.8.2.1.3 | Install containment for full ND volume - initial phase (OBSOLETE) | Complete | 1d | 03Aug12 03Aug12 | 03Aug12 03Aug12 | None | | None | | 2.8.2.1.2[FS] | 2.8.2.1.4[FS] |
| 2.8.2.1.4 | Install remainder of containment for full ND volume (OBSOLETE) | Complete | 1d | 06Aug12 06Aug12 | 06Aug12 06Aug12 | None | | None | | 2.8.2.1.3[FS] | |
| 2.8.2.1.5 | Issue P.O. for overflow bladders (OBSOLETE) | Complete | 1d | 02Aug12 02Aug12 | 02Aug12 02Aug12 | None | | None | | 2.8.2.1.1[FS] | |
| 2.8.2.2 | Muon Catcher | Complete | 654d | 04Jan10 06Aug12 | 04Jan10 06Aug12 | None | | None | | | |
| 2.8.2.2.1 | Muon Catcher Support Structure | Complete | 568d | 03May10 02Aug12 | 04Jan10 02Aug12 | None | | None | | | |
| 2.8.2.2.1.1 | Design review: muon catcher support stand | Complete | 15d | 01Dec10 01Dec10 | 01Mar10 19Mar10 | None | | None | | 2.8.2.2.1.6[FS] | 2.8.2.2.1.2[FS] |
| 2.8.2.2.1.2 | Procure materials for support structure | Complete | 80d | 01Jul10 31Aug10 | 14May10 07Sep10 | None | | None | | 2.8.2.2.1.1[FS] | 2.8.2.2.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.2.2.1.3 | Weld structure pieces | Complete | 5d | 01Oct10 29Oct10 | 08Sep10 14Sep10 | None | | None | | 2.8.2.2.1.2[FS] | 2.8.2.2.1.4[FS] |
| 2.8.2.2.1.4 | Move support structure underground (OBSOLETE) | Complete | 1d | 01Aug12 01Aug12 | 01Aug12 01Aug12 | None | | None | | 2.8.2.2.1.3[FS]; 2.8.1.3.14[FS] | 2.8.2.2.1.5[FS] |
| 2.8.2.2.1.5 | Precisely position support structure (OBSOLETE) | Complete | 1d | 02Aug12 02Aug12 | 02Aug12 02Aug12 | None | | None | | 2.8.2.2.1.4[FS] | 2.8.2.2.2.3[FS] |
| 2.8.2.2.1.6 | Finalize design of muon catcher support structure | Complete | 39d | 03May10 14May10 | 04Jan10 26Feb10 | None | | None | | 2.8.2.2.4[SS] | 2.8.2.2.1.1[FS] |
| 2.8.2.2.2 | Muon Catcher Planes | Complete | 654d | 04Jan10 06Aug12 | 04Jan10 06Aug12 | None | | None | | | |
| 2.8.2.2.2.1 | Muon Catcher Steel | Complete | 231d | 04Jan10 30Nov10 | 04Jan10 20Jul10 | None | | None | | | |
| 2.8.2.2.2.1.1 | Finalize design of steel pieces | Complete | 44d | 04Jan10 03May10 | 04Jan10 05Mar10 | None | | None | | 2.8.2.2.4[SS] | 2.8.2.2.2.1.2[FS]; 2.8.2.2.2.1.3[FS-43d] |
| 2.8.2.2.2.1.2 | Design review: muon catcher steel pieces size and shape | Complete | 10d | 01Nov10 30Nov10 | 08Mar10 19Mar10 | None | | None | | 2.8.2.2.2.1.1[FS] | |
| 2.8.2.2.2.1.3 | Purchase raw steel and ship to cutting shop | Complete | 65d | 30Apr10 30Sep10 | 01Apr10 01Jul10 | None | | None | | 2.8.2.2.2.1.1[FS-43d] | 2.8.2.2.2.1.4[FS] |
| 2.8.2.2.2.1.4 | Cut steel pieces to appropriate shape | Complete | 10d | 01Oct10 29Oct10 | 02Jul10 16Jul10 | None | | None | | 2.8.2.2.2.1.3[FS] | 2.8.2.2.2.1.5[FS] |
| 2.8.2.2.2.1.5 | Accept steel pieces | Complete | 2d | 01Oct10 29Oct10 | 19Jul10 20Jul10 | None | | None | | 2.8.2.2.2.1.4[FS] | 2.8.2.2.2.2[FS] |
| 2.8.2.2.2.2 | Make muon catcher planes and assemble on support structure | Complete | 10d | 15Feb10 08Mar11 | 21Jul10 03Aug10 | None | | None | | 2.8.2.2.2.1.5[FS]; 2.5.3.3.3.6[FS] | 2.8.2.2.2.3[FS]; 2.8.2.2.5[FS] |
| 2.8.2.2.2.3 | Move planes underground (OBSOLETE) | Complete | 1d | 03Aug12 03Aug12 | 03Aug12 03Aug12 | None | | None | | 2.8.2.2.1.5[FS]; 2.8.2.2.2.2[FS]; 2.8.2.2.5[FS] | 2.8.2.2.2.4[FS] |
| 2.8.2.2.2.4 | Mount planes on support structure underground (OBSOLETE) | Complete | 1d | 06Aug12 06Aug12 | 06Aug12 06Aug12 | None | | None | | 2.8.2.2.2.3[FS] | 2.8.2.2.3[FS]; 2.8.2.2.2.5[SS] |
| 2.8.2.2.2.5 | Maintain module view of database (OBSOLETE) | Complete | 1d | 06Aug12 06Aug12 | 06Aug12 06Aug12 | None | | None | | 2.8.2.2.2.4[SS] | 2.8.2.2.3[FS] |
| 2.8.2.2.2.6 | Assemble muon catcher miniblock | Complete | 5d | 01Feb11 01Feb11 | 24Jan11 28Jan11 | None | | None | | 2.8.2.3.2.2.3[FS] | 2.8.2.2.5[FS] |
| 2.8.2.2.3 | Muon catcher mechanical construction completed underground (OBSOLETE) | Complete | 0 | 06Aug12 06Aug12 | 06Aug12 06Aug12 | None | | None | | 2.8.2.2.2.4[FS]; 2.8.2.2.2.5[FS] | 2.8.2.3.1.5[FS]; 2.8.2.3.1.2[FS-30d]; 2.8.2.5[FS] |
| 2.8.2.2.4 | Muon catcher final design started | Complete | 0 | 01Feb10 01Feb10 | 04Jan10 04Jan10 | None | | None | | | 2.8.2.2.1.6[SS]; 2.8.2.2.2.1.1[SS] |
| 2.8.2.2.5 | Muon catcher mechanical construction completed for surface building | Complete | 0 | 08Mar11 08Mar11 | 03Aug10 03Aug10 | None | | None | | 2.8.2.2.2.6[FS]; 2.8.2.2.2.2[FS] | 2.8.2.2.2.3[FS]; 1.8.5.7.13.8[FS] |
| 2.8.2.3 | Active Detector | Complete | 596d | 01Apr10 10Aug12 | 04Jan10 10Aug12 | None | | None | | | |
| 2.8.2.3.1 | Four Blocks From IPND (OBSOLETE) | Complete | 6d | 01Aug12 08Aug12 | 01Aug12 08Aug12 | None | | None | | | |
| 2.8.2.3.1.1 | Design review: suitability of cradles for descending in shaft (OBSOLETE) | Complete | 1d | 01Aug12 01Aug12 | 01Aug12 01Aug12 | None | | None | | | 2.8.2.3.1.3[FS] |
| 2.8.2.3.1.2 | Release of four blocks from IPND to ND (OBSOLETE) | Complete | 0 | 01Aug12 01Aug12 | 01Aug12 01Aug12 | None | | None | | 2.8.2.2.3[FS-30d] | 2.8.4.2[FS]; 2.8.2.3.1.3[FS] |
| 2.8.2.3.1.3 | Prepare four blocks to be moved (OBSOLETE) | Complete | 1d | 02Aug12 02Aug12 | 02Aug12 02Aug12 | None | | None | | 2.8.2.3.1.2[FS]; 2.8.2.3.1.1[FS] | 2.8.2.3.1.4[FS] |
| 2.8.2.3.1.4 | Modify cooling connections for two blocks (OBSOLETE) | Complete | 1d | 03Aug12 03Aug12 | 03Aug12 03Aug12 | None | | None | | 2.8.2.3.1.3[FS] | 2.8.2.3.1.5[FS] |
| 2.8.2.3.1.5 | Move four blocks underground (OBSOLETE) | Complete | 1d | 07Aug12 07Aug12 | 07Aug12 07Aug12 | None | | None | | 2.8.2.2.3[FS]; 2.8.2.3.1.4[FS] | 2.8.2.3.1.6[FS] |
| 2.8.2.3.1.6 | Position blocks in ND (OBSOLETE) | Complete | 1d | 08Aug12 08Aug12 | 08Aug12 08Aug12 | None | | None | | 2.8.2.3.1.5[FS] | 2.8.2.3.2.2.8[FS]; 2.8.2.5[FS] |
| 2.8.2.3.2 | Final Two Blocks | Complete | 596d | 01Apr10 10Aug12 | 04Jan10 10Aug12 | None | | None | | | |
| 2.8.2.3.2.1 | Cradles for Final Two Blocks | Complete | 64d | 01Apr10 30Jun10 | 04Jan10 29Jan10 | None | | None | | | |
| 2.8.2.3.2.1.1 | Procure parts for two cradles | Complete | 10d | 01Apr10 05Apr10 | 04Jan10 15Jan10 | None | | None | | 1.8.5.3.7[FS] | 2.8.2.3.2.1.2[FS] |
| 2.8.2.3.2.1.2 | Weld cradles | Complete | 5d | 01Apr10 05Apr10 | 19Jan10 25Jan10 | None | | None | | 2.8.2.3.2.1.1[FS] | 2.8.2.3.2.1.3[FS] |
| 2.8.2.3.2.1.3 | Test cradles | Complete | 4d | 25Jun10 30Jun10 | 26Jan10 29Jan10 | None | | None | | 2.8.2.3.2.1.2[FS] | 2.8.2.3.2.2.6[FS] |
| 2.8.2.3.2.2 | Active Blocks | Complete | 533d | 30Jun10 10Aug12 | 10May10 10Aug12 | None | | None | | | |
| 2.8.2.3.2.2.1 | Modules for final two near detector blocks available | Complete | 0 | 30Jun10 30Jun10 | 10May10 10May10 | None | | None | | 2.5.3.3.3.8[FS] | 2.8.2.3.2.2.2[FS]; 2.8.2.3.2.2.3[FF] |
| 2.8.2.3.2.2.2 | Modify block construction tooling for final two blocks | Complete | 10d | 02Aug10 02Aug10 | 10May10 21May10 | None | | None | | 2.8.2.3.2.2.1[FS] | |
| 2.8.2.3.2.2.3 | Construct two blocks at ANL | Complete | 23d | 21Jul10 24Nov10 | 25May10 22Jun10 | None | | None | | 2.5.3.3.3.7[FS]; 1.8.5.5.7[FS]; 1.8.5.5.12[FS]; 2.5.3.3.3.8[FF]; 1.8.5.5.16[FS]; 2.8.2.3.2.2.1[FF] | 2.9.1.2.8[FS]; 2.8.2.3.2.2.4[FS]; 2.8.2.3.2.2.10[SS+10d]; 2.8.2.3.2.2.10[FF+5d]; 2.8.2.3.2.2.5[SS]; 2.8.2.2.2.6[FS]; 1.8.5.5.14[FS] |
| 2.8.2.3.2.2.4 | Fiducialize two blocks | Complete | 2d | 20Aug10 15Dec10 | 23Jun10 24Jun10 | None | | None | | 2.8.2.3.2.2.3[FS] | 2.8.2.3.2.2.6[FS] |
| 2.8.2.3.2.2.5 | Update block view of database | Complete | 17d | 30Nov11 30Nov11 | 25May10 17Jun10 | None | | None | | 2.8.2.3.2.2.3[SS] | 2.8.2.3.2.2.8[FS] |
| 2.8.2.3.2.2.6 | Attach blocks to cradles | Complete | 11d | 20Aug10 24Nov10 | 25Jun10 12Jul10 | None | | None | | 2.8.2.3.2.2.4[FS]; 2.8.2.3.2.1.3[FS] | 2.8.2.3.2.2.7[FS] |
| 2.8.2.3.2.2.7 | Transport two blocks to FNAL | Complete | 2d | 20Aug10 29Nov10 | 13Jul10 14Jul10 | None | | None | | 2.8.2.3.2.2.6[FS] | 2.8.2.3.2.2.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.2.3.2.2.8 | Move blocks underground (OBSOLETE) | Complete | 1d | 09Aug12 09Aug12 | 09Aug12 09Aug12 | None | | None | | 2.8.2.3.1.6[FS]; 2.8.2.3.2.2.7[FS]; 2.8.2.3.2.2.5[FS] | 2.8.2.3.2.2.9[FS] |
| 2.8.2.3.2.2.9 | Place blocks in detector (OBSOLETE) | Complete | 1d | 10Aug12 10Aug12 | 10Aug12 10Aug12 | None | | None | | 2.8.2.3.2.2.8[FS] | 2.8.2.5[FS]; 2.8.2.4.1[FS] |
| 2.8.2.3.2.2.10 | Paint NDOS blocks 5-6 | Complete | 20d | 20Aug10 15Dec10 | 09Jul10 05Aug10 | None | | None | | 2.8.2.3.2.2.3[SS+10d]; 1.8.5.5.15[FS]; 2.8.2.3.2.2.3[FF+5d] | 1.8.5.7.13.6[FS] |
| 2.8.2.4 | South Bookend (OBSOLETE) | Complete | 2d | 13Aug12 14Aug12 | 13Aug12 14Aug12 | None | | None | | | |
| 2.8.2.4.1 | Move bookend major pieces underground (OBSOLETE) | Complete | 1d | 13Aug12 13Aug12 | 13Aug12 13Aug12 | None | | None | | 2.8.2.3.2.2.9[FS] | 2.8.2.4.2[FS] |
| 2.8.2.4.2 | Complete assembly of bookend in place (OBSOLETE) | Complete | 1d | 14Aug12 14Aug12 | 14Aug12 14Aug12 | None | | None | | 2.8.2.4.1[FS] | 2.8.2.5[FS] |
| 2.8.2.5 | Survey and align muon catcher and six blocks (OBSOLETE) | Complete | 1d | 15Aug12 15Aug12 | 15Aug12 15Aug12 | None | | None | | 2.8.2.3.2.2.9[FS]; 2.8.2.2.3[FS]; 2.8.2.4.2[FS]; 2.8.2.3.1.6[FS] | 2.8.2.6[FS] |
| 2.8.2.6 | Muon catcher, all near detector blocks and bookend in place | Planned | 0 | 21Feb14 21Feb14 | 13Jun13 13Jun13 | Not Earlier Than | 13Jun13 | None | | 2.8.2.5[FS]; 2.8.8.4.15[FS] | 2.8.3.6.3[FS]; 2.8.3.4[FS] |
| 2.8.3 | Liquid Scintillator Filling Equipment | In Progress | 81d | 26Mar13 24Feb14 | 25Sep12 21Jun13 | None | | None | | | |
| 2.8.3.1 | Design ND-specific scintillator filling equipment | Complete | 10d | 26Mar13 14Jun13 | 25Sep12 08Oct12 | None | | None | | 2.10.10.6[FS-90d] | 2.8.3.2[FS] |
| 2.8.3.2 | Design review: ND-specific scintillator filling equipment | Complete | 5d | 14Jun13 20Jun13 | 09Oct12 15Oct12 | None | | None | | 2.8.3.1[FS] | 2.8.3.3.1[FS] |
| 2.8.3.3 | Shaft Fill and Vent Pipes | In Progress | 65d | 17Apr13 18Jul13 | 06Mar13 21Jun13 | None | | None | | | |
| 2.8.3.3.1 | Issue P.O. for shaft pipes | Complete | 3d | 17Apr13 07Jun13 | 06Mar13 08Mar13 | None | | None | | 2.10.10.6[FS-30d]; 2.8.3.2[FS] | 2.8.3.3.2[FS+10d] |
| 2.8.3.3.2 | Install shaft pipes | Planned | 10d | 01Jul13 15Jul13 | 25Mar13 05Apr13 | None | | None | | 2.8.3.3.1[FS+10d] | 2.8.3.6.1[FS]; 2.8.3.3.3[FS] |
| 2.8.3.3.3 | Pressure test shaft fill pipes | Planned | 3d | 16Jul13 18Jul13 | 19Jun13 21Jun13 | None | | None | | 2.8.3.3.2[FS] | 2.8.4.3.1[FS]; 2.8.3.7[FS] |
| 2.8.3.4 | Transfer scintillator fill machine from IPND to ND (OBSOLETE) | Complete | 1d | 17Jun13 17Jun13 | 14Jun13 17Jun13 | None | | None | | 2.8.2.6[FS] | |
| 2.8.3.5 | Refurbish near detector scintillator fill machines | In Progress | 19d | 01May13 15Jul13 | 13May13 07Jun13 | None | | None | | 1.8.5.7.14.10[FS] | 2.8.8.4.4[FS] |
| 2.8.3.6 | Containment at Base of Shaft | Complete | 1d | 28Jun13 28Jun13 | 29Jan13 18Jun13 | None | | None | | | |
| 2.8.3.6.1 | Design review: containment scheme at base of shaft (OBSOLETE) | Complete | 1d | 28Jun13 28Jun13 | 29Jan13 04Feb13 | None | | None | | 2.8.3.3.2[FS] | 2.8.3.6.2[FS] |
| 2.8.3.6.2 | Issue P.O. for containment at base of shaft (OBSOLETE) | Complete | 1d | 28Jun13 28Jun13 | 05Feb13 06Feb13 | None | | None | | 2.8.3.6.1[FS] | 2.8.3.6.3[FS+10d] |
| 2.8.3.6.3 | Install containment at base of shaft (OBSOLETE) | Complete | 1d | 28Jun13 28Jun13 | 14Jun13 18Jun13 | None | | None | | 2.8.2.6[FS]; 2.8.3.6.2[FS+10d] | |
| 2.8.3.7 | Shaft and near detector containment systems ready to accept scintillator | Planned | 0 | 18Jul13 18Jul13 | 18Jun13 18Jun13 | None | | None | | 2.8.3.3.3[FS] | 2.8.4.1[FS]; 2.8.4.3.1[FS] |
| 2.8.4 | Installation Coordination | Planned | 179d | 01Jul13 19Mar14 | 17Jun13 02Jan14 | None | | None | | | |
| 2.8.4.1 | Design review: ND outfitting procedures | Planned | 15d | 22Aug13 12Sep13 | 19Jun13 10Jul13 | None | | None | | 2.8.3.7[FS]; 2.6.2.8.10[FS] | 2.8.4.2[FS] |
| 2.8.4.2 | Collect detector readout outfitting electronics and DAQ components | Planned | 20d | 17Dec13 17Jan14 | 11Jul13 07Aug13 | None | | None | | 2.8.2.3.1.2[FS]; 2.8.4.1[FS]; 2.6.2.3.5[FS] | 2.8.4.4.1[FS]; 2.8.4.5.1[FS] |
| 2.8.4.3 | Scintillator Module Filling | Planned | 25d | 19Jul13 22Aug13 | 21Jun13 26Jul13 | None | | None | | | |
| 2.8.4.3.1 | Design review: scintillator module filling procedure | Planned | 10d | 19Jul13 01Aug13 | 21Jun13 05Jul13 | None | | None | | 2.8.3.7[FS]; 2.8.3.3.3[FS] | 2.8.4.3.2[FS]; 2.8.4.3.3[FS] |
| 2.8.4.3.2 | Install scintillator supply plumbing and attach to shaft piping | Planned | 5d | 02Aug13 08Aug13 | 08Jul13 12Jul13 | None | | None | | 2.8.4.3.1[FS] | 2.8.4.3.3[FS] |
| 2.8.4.3.3 | Fill scintillator modules | Planned | 10d | 09Aug13 22Aug13 | 15Jul13 26Jul13 | None | | None | | 2.8.4.3.2[FS]; 2.8.1.3.17[FS]; 2.8.4.3.1[FS] | 2.8.4.3.4[SS]; 2.8.4.4.2[FS]; 2.8.4.6.1.1[FS]; 2.8.4.5.2[FS] |
| 2.8.4.3.4 | Maintain scintillator view of database | Planned | 10d | 09Aug13 22Aug13 | 15Jul13 26Jul13 | None | | None | | 2.8.4.3.3[SS] | 2.8.4.6.1.1[FS] |
| 2.8.4.4 | Photodetector, High Voltage and Readout Electronics Systems | Planned | 22d | 21Jan14 19Feb14 | 08Aug13 09Sep13 | None | | None | | | |
| 2.8.4.4.1 | Move photodetector and electronics systems underground | Planned | 2d | 21Jan14 22Jan14 | 08Aug13 09Aug13 | None | | None | | 2.6.1.4.39[FS]; 2.8.4.2[FS]; 2.8.4.7.5[FS]; 2.8.4.7.2[FS]; 2.8.4.7.4[FS]; 2.8.4.7.1[FS]; 2.8.4.7.3[FS] | 2.6.3.6.4[FS]; 2.8.4.4.2[FS] |
| 2.8.4.4.2 | Install photodetector and electronics systems | Planned | 20d | 23Jan14 19Feb14 | 12Aug13 09Sep13 | None | | None | | 2.8.4.4.1[FS]; 2.6.3.5.8.16[FS]; 2.6.1.5.15[FS]; 2.6.1.5.12[FS]; 2.6.1.5.16[FS]; 2.6.1.5.14[FS]; 2.8.4.3.3[FS] | 2.8.4.4.3[SS]; 2.8.4.6.1.1[FS] |
| 2.8.4.4.3 | Maintain photodetector and electronics view of database | Planned | 20d | 23Jan14 19Feb14 | 12Aug13 09Sep13 | None | | None | | 2.8.4.4.2[SS] | 2.8.4.6.2[FS] |
| 2.8.4.5 | DAQ System | Planned | 3d | 21Jan14 23Jan14 | 08Aug13 12Aug13 | None | | None | | | |
| 2.8.4.5.1 | Move DAQ system underground | Planned | 1d | 21Jan14 21Jan14 | 08Aug13 08Aug13 | None | | None | | 2.8.4.2[FS] | 2.8.4.5.2[FS] |
| 2.8.4.5.2 | Install DAQ system | Planned | 2d | 22Jan14 23Jan14 | 09Aug13 12Aug13 | None | | None | | 2.8.4.5.1[FS]; 2.8.4.3.3[FS] | 2.8.4.6.2[FS]; 2.8.4.6.1.1[FS] |
| 2.8.4.6 | Detector Turn-on and Commissioning | Planned | 20d | 20Feb14 19Mar14 | 10Sep13 02Jan14 | None | | None | | | |
| 2.8.4.6.1 | Operational Readiness Approval | Planned | 10d | 20Feb14 05Mar14 | 10Sep13 23Sep13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.4.6.1.1 | Operations review: ND | Planned | 10d | 20Feb14 05Mar14 | 10Sep13 23Sep13 | None | | None | | 2.8.4.3.4[FS]; 2.8.4.5.2[FS]; 2.8.4.3.3[FS]; 2.8.4.4.2[FS] | 2.8.4.6.1.2[FS] |
| 2.8.4.6.1.2 | Operational readiness of near detector approved | Planned | 0 | 05Mar14 05Mar14 | 23Sep13 23Sep13 | None | | None | | 2.8.4.6.1.1[FS] | 2.8.4.6.2[FS] |
| 2.8.4.6.2 | Photodetector, Readout, and DAQ Systems Commissioning | Planned | 10d | 06Mar14 19Mar14 | 24Sep13 07Oct13 | None | | None | | 2.8.4.6.1.2[FS]; 2.8.4.5.2[FS]; 2.8.4.4.3[FS] | 2.8.4.6.4[FS]; 2.8.4.6.3[FS] |
| 2.8.4.6.3 | First cosmic ray tracks observed in near detector | Planned | 0 | 19Mar14 19Mar14 | 07Oct13 07Oct13 | None | | None | | 2.8.4.6.2[FS] | 2.8.4.6.5[FS] |
| 2.8.4.6.4 | First NuMI beam events observed in near detector | Planned | 0 | 19Mar14 19Mar14 | 07Oct13 07Oct13 | None | | None | | 2.8.4.6.2[FS]; 2.10.10.6[FS] | 2.8.4.6.5[FS] |
| 2.8.4.6.5 | Near detector completed and ready to operate | Planned | 0 | 19Mar14 19Mar14 | 02Jan14 02Jan14 | None | | None | | 2.8.4.6.3[FS]; 2.8.8.4.14[FS]; 2.8.4.6.4[FS] | 2.10.9.1[FS] |
| 2.8.4.7 | Electronics Installation Support | Planned | 44d | 01Jul13 30Aug13 | 17Jun13 30Aug13 | None | | None | | | |
| 2.8.4.7.1 | Procure and install unistrut supports | Planned | 10d | 01Jul13 15Jul13 | 17Jun13 28Jun13 | Not Earlier Than | 17Jun13 | None | | 2.8.1.7[FS] | 2.8.4.4.1[FS] |
| 2.8.4.7.2 | Procure and install cable trays | Planned | 10d | 16Jul13 29Jul13 | 16Jul13 29Jul13 | Not Earlier Than | 16Jul13 | None | | 2.8.1.7[FS] | 2.8.4.4.1[FS] |
| 2.8.4.7.3 | Assemble 4 rack protection interlocks and chassis | Planned | 20d | 01Jul13 29Jul13 | 01Jul13 29Jul13 | Not Earlier Than | 01Jul13 | None | | 2.8.1.7[FS] | 2.8.4.4.1[FS] |
| 2.8.4.7.4 | Install sensors and readout for rack and temperature monitors | Planned | 35d | 15Jul13 30Aug13 | 15Jul13 30Aug13 | Not Earlier Than | 15Jul13 | None | | 2.8.1.7[FS] | 2.8.4.4.1[FS] |
| 2.8.4.7.5 | Install surveillance cameras | Planned | 25d | 01Jul13 05Aug13 | 24Jun13 29Jul13 | Not Earlier Than | 24Jun13 | None | | 2.8.1.7[FS] | 2.8.4.4.1[FS] |
| 2.8.5 | Management - Construction Phase | In Progress | 1531d | 01Oct07 01Nov13 | 01Oct07 01Nov13 | None | | None | | | |
| 2.8.5.1 | FY08 | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.8.5.1.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.8.5.1.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.8.5.1.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.8.5.1.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.8.5.2 | FY09 | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.8.5.2.1 | Labor | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.8.5.3.1[FS] |
| 2.8.5.2.2 | Travel | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.8.5.3.2[FS] |
| 2.8.5.2.3 | Equipment | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.8.5.3.3[FS] |
| 2.8.5.2.4 | Materials and supplies | Complete | 170d | 02Feb09 30Sep09 | 02Feb09 30Sep09 | None | | None | | 2.10.9.5[FS] | 2.8.5.3.4[FS] |
| 2.8.5.3 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.8.5.3.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.8.5.2.1[FS] | 2.8.5.4.1[FS] |
| 2.8.5.3.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.8.5.2.2[FS] | 2.8.5.4.2[FS] |
| 2.8.5.3.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.8.5.2.3[FS] | 2.8.5.4.3[FS] |
| 2.8.5.3.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.8.5.2.4[FS] | 2.8.5.4.4[FS] |
| 2.8.5.3.5 | Additional travel from Minnesota | Complete | 106d | 03May10 30Sep10 | 03May10 30Sep10 | None | | None | | | |
| 2.8.5.4 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.8.5.4.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.8.5.3.1[FS] | 2.8.5.5.1[FS] |
| 2.8.5.4.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.8.5.3.2[FS] | 2.8.5.5.2[FS] |
| 2.8.5.4.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.8.5.3.3[FS] | 2.8.5.5.3[FS] |
| 2.8.5.4.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.8.5.3.4[FS] | 2.8.5.5.4[FS] |
| 2.8.5.5 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.8.5.5.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.8.5.4.1[FS] | 2.8.5.6.1[FS] |
| 2.8.5.5.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.8.5.4.2[FS] | 2.8.5.5.5[SS]; 2.8.5.6.2[FS] |
| 2.8.5.5.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.8.5.4.3[FS] | 2.8.5.5.6[SS]; 2.8.5.6.3[FS] |
| 2.8.5.5.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.8.5.4.4[FS] | 2.8.5.6.4[FS] |
| 2.8.5.5.5 | Travel - supplemental | Complete | 63d | 02Jul12 28Sep12 | 02Jul12 28Sep12 | None | | None | | 2.8.5.5.2[SS] | 2.8.5.6.2[FS] |
| 2.8.5.5.6 | Equipment - supplemental | Complete | 63d | 02Jul12 28Sep12 | 02Jul12 28Sep12 | None | | None | | 2.8.5.5.3[SS] | 2.8.5.6.3[FS] |
| 2.8.5.6 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.8.5.6.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.8.1.4.16[FF]; 2.8.5.5.1[FS] | |
| 2.8.5.6.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.8.5.5.5[FS]; 2.8.5.5.2[FS] | |
| 2.8.5.6.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.8.5.5.6[FS]; 2.8.5.5.3[FS] | 2.8.5.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.5.6.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.8.5.5.4[FS] | |
| 2.8.5.8 | Transfer MINOS crane spare parts to PPD | Planned | 1d | 01Nov13 01Nov13 | 01Nov13 01Nov13 | Not Earlier Than | 01Nov13 | None | | 2.8.5.6.3[FS] | 2.10.8.3[FS] |
| 2.8.6 | Underground Near Detector Design | In Progress | 310d | 09Jul12 30Sep13 | 01Jun12 31Jul13 | None | | None | | | |
| 2.8.6.1 | Underground ND Block Design | In Progress | 310d | 09Jul12 30Sep13 | 01Jun12 31Jul13 | None | | None | | | |
| 2.8.6.1.1 | 16-plane 3x3 block assembly layout | Complete | 42d | 09Jul12 12Oct12 | 01Jun12 31Jul12 | None | | None | | | 2.8.6.1.7[FS]; 2.8.6.1.4[FS]; 2.8.6.1.3[FS]; 2.8.6.1.9[FS]; 2.8.6.1.5[FS]; 2.8.6.1.8[FS]; 2.8.6.1.6[FS] |
| 2.8.6.1.2 | Block layout in Near Detector Hall | Complete | 44d | 20Aug12 03Dec12 | 02Jul12 31Aug12 | None | | None | | | 2.8.6.1.11[FS] |
| 2.8.6.1.3 | Design block pallet | Complete | 35d | 22Oct12 16Nov12 | 01Oct12 16Nov12 | None | | None | | 2.8.6.1.1[FS] | 2.8.7.2.2[FS]; 2.8.6.1.7[FS]; 2.8.6.1.9[FS]; 2.8.6.1.8[FS]; 2.8.6.1.6[FS]; 2.8.6.1.4[SS+10d] |
| 2.8.6.1.4 | Design assembly table | Complete | 33d | 19Nov12 18Feb13 | 15Oct12 30Nov12 | None | | None | | 2.8.6.1.1[FS]; 2.8.6.1.3[SS+10d] | 2.8.7.2.3[FS]; 2.8.6.1.7[FS] |
| 2.8.6.1.5 | Perform FEA of PVC block structure | Complete | 13d | 03Dec12 12Dec12 | 05Nov12 21Nov12 | None | | None | | 2.8.6.1.1[FS] | 2.8.6.1.7[FS] |
| 2.8.6.1.6 | Design alignment fixture | Complete | 33d | 10Dec12 18Feb13 | 19Nov12 10Jan13 | None | | None | | 2.8.6.1.3[FS]; 2.8.6.1.1[FS] | 2.8.7.2.4[FS]; 2.8.6.1.7[FS] |
| 2.8.6.1.7 | Perform 3x3 block assembly design review | Complete | 19d | 15Apr13 29May13 | 11Jan13 07Feb13 | None | | None | | 2.8.6.1.1[FS]; 2.8.6.1.5[FS]; 2.8.6.1.3[FS]; 2.8.6.1.6[FS]; 2.8.6.1.4[FS] | 2.8.7.3.12[FS] |
| 2.8.6.1.8 | Design block lifting and shipping frames | Complete | 39d | 10Dec12 18Feb13 | 19Nov12 18Jan13 | None | | None | | 2.8.6.1.3[FS]; 2.8.6.1.1[FS] | 2.8.8.1.1[FS]; 2.8.6.1.9[SS+10d]; 2.8.6.1.10[FS] |
| 2.8.6.1.9 | Design block shaft transportation fixtures | Complete | 29d | 10Dec12 27Mar13 | 05Dec12 18Jan13 | None | | None | | 2.8.6.1.8[SS+10d]; 2.8.6.1.3[FS]; 2.8.6.1.1[FS] | 2.8.8.1.3[FS]; 2.8.6.1.10[FS] |
| 2.8.6.1.10 | Design block installation procedure and fixtures | Complete | 71d | 15Apr13 18Jun13 | 22Jan13 30Apr13 | None | | None | | 2.8.6.1.9[FS]; 2.8.6.1.8[FS] | |
| 2.8.6.1.11 | Design south bookend | Planned | 64d | 01Jul13 30Sep13 | 01May13 31Jul13 | Not Earlier Than | 01May13 | None | | 2.8.6.1.2[FS] | 2.8.8.4.14[FS] |
| 2.8.6.2 | Underground Muon Catcher Design | Complete | 242d | 09Jul12 24Jun13 | 01Jun12 29Mar13 | None | | None | | | |
| 2.8.6.2.1 | 3x3 muon catcher support frame | Complete | 84d | 09Jul12 01Nov12 | 01Jun12 28Sep12 | None | | None | | | 2.8.6.2.2[FF]; 2.8.6.2.6[FS]; 2.8.6.2.8[FS]; 2.8.6.2.4[FS]; 2.8.6.2.5[FS] |
| 2.8.6.2.2 | 3x3 muon catcher steel plate | Complete | 54d | 20Aug12 05Feb13 | 16Jul12 28Sep12 | None | | None | | 2.8.6.2.1[FF] | 2.8.6.2.8[FS]; 2.8.6.2.7[SS+25d]; 2.8.8.2.1[FS] |
| 2.8.6.2.3 | Develop PVC module attachment scheme | Complete | 35d | 01Oct12 01Nov12 | 01Oct12 16Nov12 | None | | None | | | 2.8.6.2.5[FS] |
| 2.8.6.2.4 | Design mini block pallet and module attachment | Complete | 33d | 15Nov12 25Feb13 | 05Nov12 21Dec12 | None | | None | | 2.8.6.2.1[FS] | 2.8.6.2.8[FS] |
| 2.8.6.2.5 | Perform structure FEA | Complete | 10d | 25Mar13 12Apr13 | 19Nov12 04Dec12 | None | | None | | 2.8.6.2.1[FS]; 2.8.6.2.3[FS] | 2.8.6.2.6[FS] |
| 2.8.6.2.6 | Perform muon catcher design review | Complete | 10d | 15Apr13 18Jun13 | 05Dec12 18Dec12 | None | | None | | 2.8.6.2.1[FS]; 2.8.6.2.5[FS] | 2.8.6.2.9[FS] |
| 2.8.6.2.7 | Design shaft and tunnel transportation fixture | Complete | 35d | 15Nov12 25Feb13 | 01Oct12 16Nov12 | None | | None | | 2.8.6.2.2[SS+25d] | 2.8.6.2.9[FS] |
| 2.8.6.2.8 | Design installation fixture | Complete | 44d | 30Jan13 31May13 | 26Dec12 28Feb13 | None | | None | | 2.8.6.2.2[FS]; 2.8.6.2.1[FS]; 2.8.6.2.4[FS] | 2.8.6.2.9[FS] |
| 2.8.6.2.9 | Perform muon catcher installation safety review | Complete | 21d | 03Jun13 24Jun13 | 01Mar13 29Mar13 | None | | None | | 2.8.6.2.7[FS]; 2.8.6.2.6[FS]; 2.8.6.2.8[FS] | |
| 2.8.7 | Underground Near Detector Assembly | In Progress | 354d | 04Sep12 04Feb14 | 04Sep12 24Jan14 | None | | None | | | |
| 2.8.7.1 | Block Assembly Facility Setup | Complete | 186d | 04Sep12 31May13 | 04Sep12 15Feb13 | None | | None | | | |
| 2.8.7.1.1 | Develop CDF floor layout for assembly equipment | Complete | 24d | 04Sep12 06Sep12 | 04Sep12 05Oct12 | None | | None | | | 2.8.7.1.2[FS]; 2.8.7.1.3[FS]; 2.8.7.2.1[FS] |
| 2.8.7.1.2 | Prepare CDF infrastructure for assembly equipment | Complete | 30d | 17Oct12 28Dec12 | 08Oct12 16Nov12 | None | | None | | 2.8.7.1.1[FS] | |
| 2.8.7.1.3 | Update glue machine controls | Complete | 20d | 22Apr13 14May13 | 08Oct12 02Nov12 | None | | None | | 2.8.7.1.1[FS] | 2.8.7.1.4[FS] |
| 2.8.7.1.4 | Disassemble glue machine for relocation | Complete | 10d | 06Dec12 14Dec12 | 05Nov12 16Nov12 | None | | None | | 2.8.7.1.3[FS] | 2.8.7.1.5[FS] |
| 2.8.7.1.5 | Arrange glue machine and module lifter shipping to FNAL | Complete | 8d | 14Dec12 19Dec12 | 19Nov12 30Nov12 | None | | None | | 2.8.7.1.4[FS] | 2.8.7.1.6[FS]; 2.8.7.1.8[FS] |
| 2.8.7.1.6 | Reassemble glue machine at CDF | Complete | 26d | 20Dec12 06Feb13 | 03Dec12 11Jan13 | None | | None | | 2.8.7.1.5[FS] | 2.8.7.1.7[FS] |
| 2.8.7.1.7 | Perform ESH review for glue machine operations | Complete | 24d | 28Mar13 31May13 | 14Jan13 15Feb13 | None | | None | | 2.8.7.1.6[FS] | |
| 2.8.7.1.8 | Modify module lifing fixture | Complete | 26d | 30Jan13 26Apr13 | 03Dec12 11Jan13 | None | | None | | 2.8.7.1.5[FS] | 2.8.7.1.9[FS]; 2.8.7.3.13[FS] |
| 2.8.7.1.9 | Perform safety review for module lifting fixture operations | Complete | 24d | 28Mar13 31May13 | 14Jan13 15Feb13 | None | | None | | 2.8.7.1.8[FS] | |
| 2.8.7.1.10 | Assemble 12-channel module leak tester | Complete | 38d | 10Dec12 26Mar13 | 01Nov12 28Dec12 | None | | None | | | 2.8.7.3.10[FS] |
| 2.8.7.2 | Block Assembly Tooling | Complete | 150d | 08Nov12 17Jun13 | 08Oct12 03Oct13 | None | | None | | | |
| 2.8.7.2.1 | Procure spreader beams for module stack lifting | Complete | 25d | 08Nov12 14Dec12 | 08Oct12 09Nov12 | None | | None | | 2.8.7.1.1[FS] | 2.8.7.3.6[FS] |
| 2.8.7.2.2 | Procure first block pallet | Complete | 40d | 18Feb13 04Jun13 | 26Nov12 25Jan13 | None | | Not Earlier Than | 31May13 | 2.8.6.1.3[FS] | 2.8.7.3.1[FS-20d]; 2.8.7.4.10[FS]; 2.8.7.2.5[FS] |
| 2.8.7.2.3 | Procure assembly table | Complete | 45d | 18Feb13 04Jun13 | 06Dec12 13Feb13 | None | | Not Earlier Than | 31May13 | 2.8.6.1.4[FS] | 2.8.7.2.5[FS]; 2.8.7.3.1[FS-24d] |
| 2.8.7.2.4 | Procure material for alignment fixture | Complete | 25d | 03Apr13 14Jun13 | 16Jan13 20Feb13 | None | | None | | 2.8.6.1.6[FS] | 2.8.7.3.3[FS] |
| 2.8.7.2.5 | Procure 7 more block pallets and 1 more table | Complete | 15d | 05Jun13 17Jun13 | 29May13 03Oct13 | None | | Not Earlier Than | 21Jun13 | 2.8.7.2.3[FS]; 2.8.7.2.2[FS] | 2.8.7.4.20.3[FS]; 2.8.7.4.18.3[FS]; 2.8.7.4.19.3[FS]; 2.8.7.4.15.3[FS]; 2.8.7.4.16.3[FS]; 2.8.7.4.17.3[FS] |
| 2.8.7.3 | Block Assembly Preparation | In Progress | 93d | 26Mar13 05Aug13 | 02Jan13 31Jul13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.7.3.1 | Install assembly table with pallet | Complete | 10d | 10Jun13 26Jun13 | 14Feb13 27Feb13 | None | | None | | 2.8.7.2.3[FS-24d]; 2.8.7.2.2[FS-20d] | 2.8.7.4.1.0[SS]; 2.8.7.3.2[FF]; 2.8.7.3.4[FS] |
| 2.8.7.3.2 | PVC modules available for alignment fixture adjustment | Complete | 0 | 03May13 03May13 | 28Feb13 28Feb13 | None | | None | | 2.8.7.3.1[FF]; 2.5.3.3.3.11[FS] | 2.8.7.3.6[FS] |
| 2.8.7.3.3 | Install alignment fixture | Complete | 2d | 17Jun13 26Jun13 | 28Feb13 13Mar13 | None | | None | | 2.8.7.2.4[FS] | 2.8.7.4.1.1[FS]; 2.8.7.3.4[FS] |
| 2.8.7.3.4 | Survey and align assembly table | Planned | 1d | 01Jul13 01Jul13 | 14Mar13 20Mar13 | None | | None | | 2.8.7.3.1[FS]; 2.8.7.3.3[FS] | 2.8.7.3.5[FS] |
| 2.8.7.3.5 | Adjust assembly table after survey | Planned | 5d | 02Jul13 09Jul13 | 21Mar13 27Mar13 | None | | None | | 2.8.7.3.4[FS] | 2.8.7.3.6[FS] |
| 2.8.7.3.6 | Dry-stack first block | Planned | 5d | 10Jul13 16Jul13 | 28Mar13 03Apr13 | None | | None | | 2.8.7.2.1[FS]; 2.8.7.3.5[FS]; 2.8.7.3.2[FS] | 2.8.7.3.7[FS] |
| 2.8.7.3.7 | Survey dry-stack block | Planned | 3d | 17Jul13 19Jul13 | 04Apr13 10Apr13 | None | | None | | 2.8.7.3.6[FS] | 2.8.7.3.8[FS]; 2.8.7.3.12[FS] |
| 2.8.7.3.8 | Re-align assembly table after survey | Planned | 2d | 22Jul13 23Jul13 | 11Apr13 17Apr13 | None | | None | | 2.8.7.3.7[FS] | 2.8.7.3.12[FF] |
| 2.8.7.3.9 | PVC module stacks for first block received | Complete | 0 | 03May13 03May13 | 17Apr13 17Apr13 | None | | None | | 2.5.3.3.3.22[FS] | 2.8.7.4.2[FS]; 2.8.7.4.3[FS] |
| 2.8.7.3.10 | Setup module leak and optical fiber testers | Complete | 41d | 26Mar13 31May13 | 02Jan13 28Feb13 | None | | None | | 2.8.7.1.10[FS] | 2.8.7.3.12[FS]; 2.8.7.3.11[SS] |
| 2.8.7.3.11 | Perform setup and training for QA/QC bar-code system | Planned | 15d | 01Jul13 22Jul13 | 02Jan13 28Feb13 | None | | None | | 2.8.7.3.10[SS] | 2.8.7.3.12[FS]; 2.8.7.4.3[FS] |
| 2.8.7.3.12 | Perform block assembly readiness review | Planned | 10d | 23Jul13 05Aug13 | 11Apr13 24Apr13 | None | | None | | 2.8.7.3.11[FS]; 2.8.7.3.10[FS]; 2.8.6.1.7[FS]; 2.8.7.3.7[FS]; 2.8.7.3.8[FF] | 2.8.7.4.4[FS] |
| 2.8.7.3.13 | Fabricate 16 spare suction cups for module lifting fixture | Planned | 22d | 01Jul13 31Jul13 | 01Jul13 31Jul13 | Not Earlier Than | 01Jul13 | None | | 2.8.7.1.8[FS] | 2.8.7.4.11[FS] |
| 2.8.7.4 | Block Assembly Production | In Progress | 214d | 28Mar13 04Feb14 | 14Feb13 24Jan14 | None | | None | | | |
| 2.8.7.4.1 | Devcon Glue and Flexane | In Progress | 153d | 28Mar13 31Oct13 | 14Feb13 12Aug13 | None | | None | | | |
| 2.8.7.4.1.0 | Place POs for glue and flexane | Complete | 1d | 28Mar13 28Mar13 | 14Feb13 14Feb13 | None | | None | | 2.8.7.3.1[SS] | 2.8.7.4.1.1[FS+20d] |
| 2.8.7.4.1.1 | Receive first batch of 4 barrels of glue and 48 cans of flexane | Complete | 1d | 24Jun13 24Jun13 | 15Mar13 15Mar13 | None | | None | | 2.8.7.4.1.0[FS+20d]; 2.8.7.3.3[FS] | 2.8.7.4.4[FS] |
| 2.8.7.4.1.2 | Receive second batch of 4 barrels of glue and 48 cans of flexane | Planned | 1d | 03Sep13 03Sep13 | 04Jun13 04Jun13 | None | | None | | 2.8.7.4.10[FS] | 2.8.7.4.15.4[FS] |
| 2.8.7.4.1.3 | Receive third batch of 4 barrels of glue and 48 cans of flexane | Planned | 1d | 31Oct13 31Oct13 | 12Aug13 12Aug13 | None | | None | | 2.8.7.4.17.2[FS] | 2.8.7.4.18.4[FS] |
| 2.8.7.4.2 | Leak test block 1 modules | Complete | 11d | 03Jun13 21Jun13 | 18Apr13 02May13 | None | | None | | 2.8.7.3.9[FS] | 2.8.7.4.3[FS]; 2.8.7.4.9[FS]; 2.8.7.4.8[FS]; 2.8.7.4.4[FS] |
| 2.8.7.4.3 | Optical fiber test of block 1 modules | Complete | 2d | 03Jun13 07Jun13 | 03May13 06May13 | None | | None | | 2.8.7.4.2[FS]; 2.8.7.3.9[FS]; 2.8.7.3.11[FS] | 2.8.7.4.9[FS]; 2.8.7.4.4[FS] |
| 2.8.7.4.4 | Assemble block 1 | Planned | 15d | 06Aug13 26Aug13 | 07May13 28May13 | None | | None | | 2.8.7.4.1.1[FS]; 2.8.7.4.3[FS]; 2.8.7.3.12[FS]; 2.8.7.4.2[FS] | 2.8.7.4.5[FS]; 2.8.7.4.21.1[SS] |
| 2.8.7.4.5 | Transfer block 1 to storage area | Planned | 2d | 27Aug13 28Aug13 | 29May13 30May13 | None | | None | | 2.8.7.4.4[FS] | 2.8.7.4.10[FS]; 2.8.7.4.6[FS] |
| 2.8.7.4.6 | Survey block 1 | Planned | 13d | 29Aug13 17Sep13 | 31May13 18Jun13 | None | | None | | 2.8.7.4.5[FS] | 2.8.7.4.7[FS] |
| 2.8.7.4.7 | Paint block 1 | Planned | 5d | 18Sep13 24Sep13 | 19Jun13 25Jun13 | None | | None | | 2.8.7.4.6[FS] | 2.8.8.4.1[FS] |
| 2.8.7.4.8 | PVC module stacks for second block received | Complete | 0 | 20May13 20May13 | 02May13 02May13 | None | | None | | 2.8.7.4.2[FS]; 2.5.3.3.3.23[SS+2d] | 2.8.7.4.9[FS] |
| 2.8.7.4.9 | Leak and optical test of block 2 modules | Complete | 10d | 03Jun13 21Jun13 | 07May13 20May13 | None | | None | | 2.8.7.4.3[FS]; 2.8.7.4.2[FS]; 2.8.7.4.8[FS] | 2.8.7.4.11[FS]; 2.8.7.4.15.2[FS] |
| 2.8.7.4.10 | Install and align pallet 2 | Planned | 2d | 29Aug13 30Aug13 | 31May13 03Jun13 | None | | None | | 2.8.7.2.2[FS]; 2.8.7.4.5[FS] | 2.8.7.4.11[FS]; 2.8.7.4.1.2[FS] |
| 2.8.7.4.11 | Assemble block 2 | Planned | 10d | 03Sep13 16Sep13 | 04Jun13 17Jun13 | None | | None | | 2.8.7.4.9[FS]; 2.8.7.4.10[FS]; 2.8.7.3.13[FS]; 2.8.7.4.21.1[FS] | 2.8.7.4.12[FS]; 2.8.7.4.21.2[SS] |
| 2.8.7.4.12 | Transfer block 2 to storage area | Planned | 1d | 17Sep13 17Sep13 | 18Jun13 18Jun13 | None | | None | | 2.8.7.4.11[FS] | 2.8.7.4.13[FS]; 2.8.7.4.15.3[FS] |
| 2.8.7.4.13 | Survey block 2 | Planned | 9d | 18Sep13 30Sep13 | 19Jun13 01Jul13 | None | | None | | 2.8.7.4.12[FS] | 2.8.7.4.14[FS] |
| 2.8.7.4.14 | Paint block 2 | Planned | 2d | 01Oct13 02Oct13 | 02Jul13 03Jul13 | None | | None | | 2.8.7.4.13[FS] | 2.8.8.4.5[FS] |
| 2.8.7.4.15 | Block 3 Production | Planned | 73d | 01Jul13 11Oct13 | 17Jun13 22Jul13 | None | | None | | | |
| 2.8.7.4.15.1 | PVC module stacks received - Block 3 | Planned | 0 | 01Jul13 01Jul13 | 17Jun13 17Jun13 | None | | None | | 2.5.3.3.3.24[SS+2d] | 2.8.7.4.15.2[FS] |
| 2.8.7.4.15.2 | Perform module leak and optical tests - Block 3 | Planned | 5d | 23Jul13 29Jul13 | 18Jun13 24Jun13 | None | | None | | 2.8.7.4.15.1[FS]; 2.8.7.4.9[FS] | 2.8.7.4.16.2[FS]; 2.8.7.4.15.4[FS] |
| 2.8.7.4.15.3 | Install and align pallet - Block 3 | Planned | 1d | 18Sep13 18Sep13 | 26Jun13 26Jun13 | None | | None | | 2.8.7.2.5[FS]; 2.8.7.4.12[FS] | 2.8.7.4.15.4[FS] |
| 2.8.7.4.15.4 | Assemble block 3 | Planned | 10d | 19Sep13 02Oct13 | 27Jun13 11Jul13 | None | | None | | 2.8.7.4.1.2[FS]; 2.8.7.4.15.3[FS]; 2.8.7.4.15.2[FS]; 2.8.7.4.21.2[FS] | 2.8.7.4.15.5[FS]; 2.8.7.4.21.3[SS]; 2.8.7.4.16.1[FS] |
| 2.8.7.4.15.5 | Transfer block 3 to storage area | Planned | 1d | 03Oct13 03Oct13 | 12Jul13 12Jul13 | None | | None | | 2.8.7.4.15.4[FS] | 2.8.7.4.16.3[FS]; 2.8.7.4.15.6[FS] |
| 2.8.7.4.15.6 | Survey block 3 | Planned | 4d | 04Oct13 09Oct13 | 15Jul13 18Jul13 | None | | None | | 2.8.7.4.15.5[FS] | 2.8.7.4.15.7[FS] |
| 2.8.7.4.15.7 | Paint block 3 | Planned | 2d | 10Oct13 11Oct13 | 19Jul13 22Jul13 | None | | None | | 2.8.7.4.15.6[FS] | 2.8.8.4.9[FS] |
| 2.8.7.4.16 | Block 4 Production | Planned | 22d | 02Oct13 01Nov13 | 11Jul13 13Aug13 | None | | None | | | |
| 2.8.7.4.16.1 | PVC module stacks received - Block 4 | Planned | 0 | 02Oct13 02Oct13 | 11Jul13 11Jul13 | None | | None | | 2.5.3.3.3.24[FS]; 2.8.7.4.15.4[FS] | 2.8.7.4.16.2[FS] |
| 2.8.7.4.16.2 | Perform module leak and optical tests - Block 4 | Planned | 5d | 03Oct13 09Oct13 | 12Jul13 18Jul13 | None | | None | | 2.8.7.4.15.2[FS]; 2.8.7.4.16.1[FS] | 2.8.7.4.17.2[FS]; 2.8.7.4.16.4[FS] |
| 2.8.7.4.16.3 | Install and align pallet - Block 4 | Planned | 1d | 04Oct13 04Oct13 | 19Jul13 19Jul13 | None | | None | | 2.8.7.2.5[FS]; 2.8.7.4.15.5[FS] | 2.8.7.4.16.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.7.4.16.4 | Assemble block 4 | Planned | 10d | 10Oct13 23Oct13 | 22Jul13 02Aug13 | None | | None | | 2.8.7.4.16.2[FS]; 2.8.7.4.21.3[FS]; 2.8.7.4.16.3[FS] | 2.8.7.4.16.5[FS]; 2.8.7.4.21.4[SS]; 2.8.7.4.17.1[FS] |
| 2.8.7.4.16.5 | Transfer block 4 to storage area | Planned | 1d | 24Oct13 24Oct13 | 05Aug13 05Aug13 | None | | None | | 2.8.7.4.16.4[FS] | 2.8.7.4.17.3[FS]; 2.8.7.4.16.6[FS] |
| 2.8.7.4.16.6 | Survey block 4 | Planned | 4d | 25Oct13 30Oct13 | 06Aug13 09Aug13 | None | | None | | 2.8.7.4.16.5[FS] | 2.8.7.4.16.7[FS] |
| 2.8.7.4.16.7 | Paint block 4 | Planned | 2d | 31Oct13 01Nov13 | 12Aug13 13Aug13 | None | | None | | 2.8.7.4.16.6[FS] | 2.8.8.4.10[FS] |
| 2.8.7.4.17 | Block 5 Production | Planned | 22d | 23Oct13 22Nov13 | 02Aug13 05Sep13 | None | | None | | | |
| 2.8.7.4.17.1 | PVC module stacks received - Block 5 | Planned | 0 | 23Oct13 23Oct13 | 02Aug13 02Aug13 | None | | None | | 2.5.3.3.3.25[FS]; 2.8.7.4.16.4[FS] | 2.8.7.4.17.2[FS] |
| 2.8.7.4.17.2 | Perform module leak and optical tests - Block 5 | Planned | 5d | 24Oct13 30Oct13 | 05Aug13 09Aug13 | None | | None | | 2.8.7.4.16.2[FS]; 2.8.7.4.17.1[FS] | 2.8.7.4.1.3[FS]; 2.8.7.4.18.2[FS]; 2.8.7.4.17.4[FS] |
| 2.8.7.4.17.3 | Install and align pallet - Block 5 | Planned | 1d | 25Oct13 25Oct13 | 12Aug13 12Aug13 | None | | None | | 2.8.7.4.16.5[FS]; 2.8.7.2.5[FS] | 2.8.7.4.17.4[FS] |
| 2.8.7.4.17.4 | Assemble block 5 | Planned | 10d | 31Oct13 13Nov13 | 13Aug13 26Aug13 | None | | None | | 2.8.7.4.17.2[FS]; 2.8.7.4.17.3[FS]; 2.8.7.4.21.4[FS] | 2.8.7.4.18.1[FS]; 2.8.7.4.21.5[SS]; 2.8.7.4.17.5[FS] |
| 2.8.7.4.17.5 | Transfer block 5 to storage area | Planned | 1d | 14Nov13 14Nov13 | 27Aug13 27Aug13 | None | | None | | 2.8.7.4.17.4[FS] | 2.8.7.4.18.3[FS]; 2.8.7.4.17.6[FS] |
| 2.8.7.4.17.6 | Survey block 5 | Planned | 4d | 15Nov13 20Nov13 | 28Aug13 03Sep13 | None | | None | | 2.8.7.4.17.5[FS] | 2.8.7.4.17.7[FS] |
| 2.8.7.4.17.7 | Paint block 5 | Planned | 2d | 21Nov13 22Nov13 | 04Sep13 05Sep13 | None | | None | | 2.8.7.4.17.6[FS] | 2.8.8.4.11[FS] |
| 2.8.7.4.18 | Block 6 Production | Planned | 22d | 13Nov13 17Dec13 | 26Aug13 27Sep13 | None | | None | | | |
| 2.8.7.4.18.1 | PVC module stacks received - Block 6 | Planned | 0 | 13Nov13 13Nov13 | 26Aug13 26Aug13 | None | | None | | 2.5.3.3.3.26[SS+2d]; 2.8.7.4.17.4[FS] | 2.8.7.4.18.2[FS] |
| 2.8.7.4.18.2 | Perform module leak and optical tests - Block 6 | Planned | 5d | 14Nov13 20Nov13 | 27Aug13 03Sep13 | None | | None | | 2.8.7.4.17.2[FS]; 2.8.7.4.18.1[FS] | 2.8.7.4.19.2[FS]; 2.8.7.4.18.4[FS] |
| 2.8.7.4.18.3 | Install and align pallet - Block 6 | Planned | 1d | 15Nov13 15Nov13 | 04Sep13 04Sep13 | None | | None | | 2.8.7.2.5[FS]; 2.8.7.4.17.5[FS] | 2.8.7.4.18.4[FS] |
| 2.8.7.4.18.4 | Assemble block 6 | Planned | 10d | 21Nov13 06Dec13 | 05Sep13 18Sep13 | None | | None | | 2.8.7.4.1.3[FS]; 2.8.7.4.18.2[FS]; 2.8.7.4.18.3[FS]; 2.8.7.4.21.5[FS] | 2.8.7.4.18.5[FS]; 2.8.7.4.19.1[FS]; 2.8.7.4.21.6[SS] |
| 2.8.7.4.18.5 | Transfer block 6 to storage area | Planned | 1d | 09Dec13 09Dec13 | 19Sep13 19Sep13 | None | | None | | 2.8.7.4.18.4[FS] | 2.8.7.4.18.6[FS]; 2.8.7.4.19.3[FS] |
| 2.8.7.4.18.6 | Survey block 6 | Planned | 4d | 10Dec13 13Dec13 | 20Sep13 25Sep13 | None | | None | | 2.8.7.4.18.5[FS] | 2.8.7.4.18.7[FS] |
| 2.8.7.4.18.7 | Paint block 6 | Planned | 2d | 16Dec13 17Dec13 | 26Sep13 27Sep13 | None | | None | | 2.8.7.4.18.6[FS] | 2.8.8.4.12[FS] |
| 2.8.7.4.19 | Block 7 Production | Planned | 22d | 06Dec13 13Jan14 | 18Sep13 21Oct13 | None | | None | | | |
| 2.8.7.4.19.1 | PVC module stacks received - Block 7 | Planned | 0 | 06Dec13 06Dec13 | 18Sep13 18Sep13 | None | | None | | 2.8.7.4.18.4[FS]; 2.5.3.3.3.27[SS+2d] | 2.8.7.4.19.2[FS] |
| 2.8.7.4.19.2 | Perform module leak and optical tests - Block 7 | Planned | 5d | 09Dec13 13Dec13 | 19Sep13 25Sep13 | None | | None | | 2.8.7.4.19.1[FS]; 2.8.7.4.18.2[FS] | 2.8.7.4.20.2[FS]; 2.8.7.4.19.4[FS] |
| 2.8.7.4.19.3 | Install and align pallet - Block 7 | Planned | 1d | 10Dec13 10Dec13 | 26Sep13 26Sep13 | None | | None | | 2.8.7.2.5[FS]; 2.8.7.4.18.5[FS] | 2.8.7.4.19.4[FS] |
| 2.8.7.4.19.4 | Assemble block 7 | Planned | 10d | 16Dec13 02Jan14 | 27Sep13 10Oct13 | None | | None | | 2.8.7.4.19.2[FS]; 2.8.7.4.19.3[FS]; 2.8.7.4.21.6[FS] | 2.8.7.4.20.1[FS]; 2.8.7.4.19.5[FS]; 2.8.7.4.21.7[SS] |
| 2.8.7.4.19.5 | Transfer block 7 to storage area | Planned | 1d | 03Jan14 03Jan14 | 11Oct13 11Oct13 | None | | None | | 2.8.7.4.19.4[FS] | 2.8.7.4.20.3[FS]; 2.8.7.4.19.6[FS] |
| 2.8.7.4.19.6 | Survey block 7 | Planned | 4d | 06Jan14 09Jan14 | 14Oct13 17Oct13 | None | | None | | 2.8.7.4.19.5[FS] | 2.8.7.4.19.7[FS] |
| 2.8.7.4.19.7 | Paint block 7 | Planned | 2d | 10Jan14 13Jan14 | 18Oct13 21Oct13 | None | | None | | 2.8.7.4.19.6[FS] | 2.8.8.4.13[FS] |
| 2.8.7.4.20 | Block 8 Production | Planned | 22d | 02Jan14 04Feb14 | 10Oct13 12Nov13 | None | | None | | | |
| 2.8.7.4.20.1 | PVC module stacks received - Block 8 | Planned | 0 | 02Jan14 02Jan14 | 10Oct13 10Oct13 | None | | None | | 2.5.3.3.3.27[FS]; 2.8.7.4.19.4[FS] | 2.8.7.4.20.2[FS] |
| 2.8.7.4.20.2 | Perform module leak and optical tests - Block 8 | Planned | 5d | 03Jan14 09Jan14 | 11Oct13 17Oct13 | None | | None | | 2.8.7.4.19.2[FS]; 2.8.7.4.20.1[FS] | 2.8.7.4.20.4[FS] |
| 2.8.7.4.20.3 | Install and align pallet - Block 8 | Planned | 1d | 06Jan14 06Jan14 | 18Oct13 18Oct13 | None | | None | | 2.8.7.2.5[FS]; 2.8.7.4.19.5[FS] | 2.8.7.4.20.4[FS] |
| 2.8.7.4.20.4 | Assemble block 8 | Planned | 10d | 10Jan14 24Jan14 | 21Oct13 01Nov13 | None | | None | | 2.8.7.4.20.2[FS]; 2.8.7.4.21.7[FS]; 2.8.7.4.20.3[FS] | 2.8.7.4.20.5[FS]; 2.8.7.4.21.8[SS] |
| 2.8.7.4.20.5 | Transfer block 8 to storage area | Planned | 1d | 27Jan14 27Jan14 | 04Nov13 04Nov13 | None | | None | | 2.8.7.4.20.4[FS]; 2.8.7.4.21.8[FS] | 2.8.7.4.20.6[FS] |
| 2.8.7.4.20.6 | Survey block 8 | Planned | 4d | 28Jan14 31Jan14 | 05Nov13 08Nov13 | None | | None | | 2.8.7.4.20.5[FS] | 2.8.7.4.20.7[FS] |
| 2.8.7.4.20.7 | Paint block 8 | Planned | 2d | 03Feb14 04Feb14 | 11Nov13 12Nov13 | None | | None | | 2.8.7.4.20.6[FS] | 2.8.8.4.14[FS] |
| 2.8.7.4.21 | Glue Machine Support | Planned | 116d | 06Aug13 24Jan14 | 05Aug13 24Jan14 | None | | None | | | |
| 2.8.7.4.21.1 | Glue machine support - Block 1 | Planned | 15d | 06Aug13 26Aug13 | 05Aug13 23Aug13 | None | | None | | 2.8.7.4.4[SS] | 2.8.7.4.21.2[FS]; 2.8.7.4.11[FS] |
| 2.8.7.4.21.2 | Glue machine support - Block 2 | Planned | 10d | 03Sep13 16Sep13 | 30Aug13 13Sep13 | None | | None | | 2.8.7.4.21.1[FS]; 2.8.7.4.11[SS] | 2.8.7.4.15.4[FS]; 2.8.7.4.21.3[FS] |
| 2.8.7.4.21.3 | Glue machine support - Block 3 | Planned | 10d | 19Sep13 02Oct13 | 18Sep13 01Oct13 | None | | None | | 2.8.7.4.21.2[FS]; 2.8.7.4.15.4[SS] | 2.8.7.4.16.4[FS]; 2.8.7.4.21.4[FS] |
| 2.8.7.4.21.4 | Glue machine support - Block 4 | Planned | 10d | 10Oct13 23Oct13 | 09Oct13 22Oct13 | None | | None | | 2.8.7.4.21.3[FS]; 2.8.7.4.16.4[SS] | 2.8.7.4.21.5[FS]; 2.8.7.4.17.4[FS] |
| 2.8.7.4.21.5 | Glue machine support - Block 5 | Planned | 10d | 31Oct13 13Nov13 | 30Oct13 12Nov13 | None | | None | | 2.8.7.4.21.4[FS]; 2.8.7.4.17.4[SS] | 2.8.7.4.21.6[FS]; 2.8.7.4.18.4[FS] |
| 2.8.7.4.21.6 | Glue machine support - Block 6 | Planned | 10d | 21Nov13 06Dec13 | 20Nov13 05Dec13 | None | | None | | 2.8.7.4.21.5[FS]; 2.8.7.4.18.4[SS] | 2.8.7.4.19.4[FS]; 2.8.7.4.21.7[FS] |
| 2.8.7.4.21.7 | Glue machine support - Block 7 | Planned | 10d | 16Dec13 02Jan14 | 16Dec13 02Jan14 | None | | None | | 2.8.7.4.21.6[FS]; 2.8.7.4.19.4[SS] | 2.8.7.4.20.4[FS]; 2.8.7.4.21.8[FS] |
| 2.8.7.4.21.8 | Glue machine support - Block 8 | Planned | 10d | 10Jan14 24Jan14 | 10Jan14 24Jan14 | None | | None | | 2.8.7.4.20.4[SS]; 2.8.7.4.21.7[FS] | 2.8.7.4.20.5[FS] |
| 2.8.8 | Underground Near Detector Installation | In Progress | 348d | 01Oct12 21Feb14 | 01Oct12 03Dec13 | None | | None | | | |
| 2.8.8.1 | Underground Installation Tooling | Complete | 76d | 18Feb13 04Jun13 | 25Jan13 18Apr13 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.8.8.1.1 | Procure materials for block lifting and shipping frames | Complete | 30d | 18Feb13 04Jun13 | 25Jan13 07Mar13 | None | | Not Earlier Than | 21Jun13 | 2.8.6.1.8[FS] | 2.8.8.1.2[FS] |
| 2.8.8.1.2 | Fabricate block lifting and shipping frames (OBSOLETE) | Complete | 1d | 18Apr13 18Apr13 | 08Mar13 18Apr13 | None | | None | | 2.8.8.1.1[FS] | 2.8.8.4.2[FS] |
| 2.8.8.1.3 | Procure and assemble block transportation fixtures | Complete | 30d | 18Feb13 04Jun13 | 25Jan13 07Mar13 | None | | Not Earlier Than | 31May13 | 2.8.6.1.9[FS] | 2.8.8.4.2[FS] |
| 2.8.8.2 | Muon Catcher Steel Weldments | In Progress | 192d | 01Oct12 08Jul13 | 01Oct12 10May13 | None | | None | | | |
| 2.8.8.2.1 | Place POs for muon catcher steel weldments | Complete | 5d | 01Oct12 01May13 | 01Oct12 05Oct12 | None | | None | | 2.8.6.2.2[FS] | 2.8.8.2.2[FS+15d] |
| 2.8.8.2.2 | Receive muon catcher steel weldments | Complete | 15d | 03Jun13 07Jun13 | 25Mar13 12Apr13 | None | | None | | 2.8.8.2.1[FS+15d] | 2.8.8.2.3[SS+1d]; 2.8.8.2.5[FS]; 2.8.8.2.4[FF] |
| 2.8.8.2.3 | QA inspect muon catcher steel weldments | Complete | 15d | 10Jun13 14Jun13 | 26Mar13 15Apr13 | None | | None | | 2.8.8.2.2[SS+1d] | 2.8.8.3.11[FS]; 2.8.8.3.3[SS+2d] |
| 2.8.8.2.4 | Survey muon catcher steel plate thickness (OBSOLETE) | Complete | 1d | 12Apr13 12Apr13 | 12Apr13 12Apr13 | None | | None | | 2.8.8.2.2[FF] | 2.8.8.3.3[SS] |
| 2.8.8.2.5 | Weld muon catcher support frames | In Progress | 15d | 10Jun13 08Jul13 | 15Apr13 03May13 | None | | None | | 2.8.8.2.2[FS] | 2.8.8.2.6[SS+5d] |
| 2.8.8.2.6 | Install PVC mounting clips to steel plates | In Progress | 15d | 10Jun13 08Jul13 | 22Apr13 10May13 | None | | None | | 2.8.8.2.5[SS+5d] | 2.8.8.3.7[SS+5d] |
| 2.8.8.3 | Muon Catcher Installation | In Progress | 71d | 10Jun13 18Sep13 | 01Apr13 28Jun13 | None | | None | | | |
| 2.8.8.3.1 | Survey ND hall and mark detector location | Complete | 5d | 10Jun13 13Jun13 | 01Apr13 05Apr13 | None | | None | | 2.8.1.4.10[FS] | 2.8.8.3.2[FS] |
| 2.8.8.3.2 | Install roller guides in the hall for muon catcher | Complete | 5d | 17Jun13 21Jun13 | 08Apr13 12Apr13 | None | | None | | 2.8.8.3.1[FS] | 2.8.8.3.6[FS] |
| 2.8.8.3.3 | Transport mini-block steel weldment underground | Complete | 1d | 26Jun13 26Jun13 | 01Apr13 01Apr13 | None | | None | | 2.8.1.7[FS]; 2.8.1.8[FS]; 2.8.8.2.4[SS]; 2.8.8.2.3[SS+2d] | 2.8.8.3.4[FS] |
| 2.8.8.3.4 | Transport PVC module stacks underground | Complete | 1d | 25Jun13 25Jun13 | 02Apr13 02Apr13 | None | | None | | 2.8.8.3.3[FS]; 2.5.3.3.3.23[SS+2d] | 2.8.8.3.5[FS] |
| 2.8.8.3.5 | Attach PVC modules to mini-block steel weldment | Planned | 2d | 01Jul13 02Jul13 | 03Apr13 04Apr13 | None | | None | | 2.8.8.3.4[FS] | 2.8.8.3.6[FS] |
| 2.8.8.3.6 | Install mini-block into position | Planned | 5d | 03Jul13 10Jul13 | 15Apr13 19Apr13 | None | | None | | 2.8.8.3.2[FS]; 2.8.8.3.5[FS] | 2.8.8.3.7[FS] |
| 2.8.8.3.7 | Transport first muon catcher steel weldment underground | Planned | 1d | 11Jul13 11Jul13 | 22Apr13 22Apr13 | None | | None | | 2.8.8.3.6[FS]; 2.8.8.2.6[SS+5d] | 2.8.8.3.8[FS] |
| 2.8.8.3.8 | Attach PVC modules to first muon catcher steel weldment | Planned | 1d | 12Jul13 12Jul13 | 23Apr13 23Apr13 | None | | None | | 2.8.8.3.7[FS] | 2.8.8.3.9[FS] |
| 2.8.8.3.9 | Install first muon catcher weldment into position | Planned | 4d | 15Jul13 18Jul13 | 24Apr13 29Apr13 | None | | None | | 2.8.8.3.8[FS] | 2.8.8.3.10[FS] |
| 2.8.8.3.10 | Survey first muon catcher position | Planned | 5d | 19Jul13 25Jul13 | 30Apr13 06May13 | None | | None | | 2.8.8.3.9[FS] | 2.8.8.3.11[FS] |
| 2.8.8.3.11 | Install remaining 9 muon catchers | Planned | 28d | 26Jul13 04Sep13 | 07May13 14Jun13 | None | | None | | 2.8.8.3.10[FS]; 2.8.8.2.3[FS] | 2.8.8.3.12[FS] |
| 2.8.8.3.12 | Survey all muon catcher positions | Planned | 10d | 05Sep13 18Sep13 | 17Jun13 28Jun13 | None | | None | | 2.8.8.3.11[FS] | 2.8.8.4.1[FS] |
| 2.8.8.4 | PVC Block Installation | Planned | 101d | 25Sep13 21Feb14 | 01Jul13 03Dec13 | None | | None | | | |
| 2.8.8.4.1 | Install cradle to block 1 | Planned | 1d | 25Sep13 25Sep13 | 01Jul13 01Jul13 | None | | None | | 2.8.7.4.7[FS]; 2.8.8.3.12[FS] | 2.8.8.4.2[FS] |
| 2.8.8.4.2 | Transfer block 1 to ND hall | Planned | 1d | 26Sep13 26Sep13 | 02Jul13 02Jul13 | None | | None | | 2.8.8.1.3[FS]; 2.8.8.1.2[FS]; 2.8.8.4.1[FS] | 2.8.8.4.3[FS] |
| 2.8.8.4.3 | Install block 1 into position | Planned | 3d | 27Sep13 01Oct13 | 03Jul13 08Jul13 | None | | None | | 2.8.8.4.2[FS] | 2.8.8.4.5[FS]; 2.8.8.4.4[FS]; 2.6.1.2.3.38[FS] |
| 2.8.8.4.4 | Survey block 1 location | Planned | 4d | 02Oct13 07Oct13 | 09Jul13 12Jul13 | None | | None | | 2.8.8.4.3[FS]; 2.8.3.5[FS] | 2.8.8.4.7[FS] |
| 2.8.8.4.5 | Install cradle to block 2 | Planned | 1d | 03Oct13 03Oct13 | 09Jul13 09Jul13 | None | | None | | 2.8.8.4.3[FS]; 2.8.7.4.14[FS] | 2.8.8.4.6[FS] |
| 2.8.8.4.6 | Transfer block 2 to ND hall | Planned | 1d | 04Oct13 04Oct13 | 10Jul13 10Jul13 | None | | None | | 2.8.8.4.5[FS] | 2.8.8.4.7[FS] |
| 2.8.8.4.7 | Install block 2 into position | Planned | 2d | 08Oct13 09Oct13 | 15Jul13 16Jul13 | None | | None | | 2.8.8.4.4[FS]; 2.8.8.4.6[FS] | 2.8.8.4.8[FS] |
| 2.8.8.4.8 | Survey block 2 location | Planned | 3d | 10Oct13 14Oct13 | 17Jul13 19Jul13 | None | | None | | 2.8.8.4.7[FS] | 2.8.8.4.9[FS] |
| 2.8.8.4.9 | Transfer and install block 3 | Planned | 3d | 15Oct13 17Oct13 | 23Jul13 25Jul13 | None | | None | | 2.8.7.4.15.7[FS]; 2.8.8.4.8[FS] | 2.8.8.4.10[FS] |
| 2.8.8.4.10 | Transfer and install block 4 | Planned | 3d | 04Nov13 06Nov13 | 14Aug13 16Aug13 | None | | None | | 2.8.8.4.9[FS]; 2.8.7.4.16.7[FS] | 2.8.8.4.11[FS] |
| 2.8.8.4.11 | Transfer and install block 5 | Planned | 3d | 25Nov13 27Nov13 | 06Sep13 10Sep13 | None | | None | | 2.8.8.4.10[FS]; 2.8.7.4.17.7[FS] | 2.8.8.4.12[FS] |
| 2.8.8.4.12 | Transfer and install block 6 | Planned | 3d | 18Dec13 20Dec13 | 30Sep13 02Oct13 | None | | None | | 2.8.8.4.11[FS]; 2.8.7.4.18.7[FS] | 2.8.8.4.13[FS] |
| 2.8.8.4.13 | Transfer and install block 7 | Planned | 3d | 14Jan14 16Jan14 | 22Oct13 24Oct13 | None | | None | | 2.8.8.4.12[FS]; 2.8.7.4.19.7[FS] | 2.8.8.4.14[FS] |
| 2.8.8.4.14 | Transfer and install block 8 | Planned | 3d | 05Feb14 07Feb14 | 13Nov13 15Nov13 | None | | None | | 2.8.6.1.11[FS]; 2.8.7.4.20.7[FS]; 2.8.8.4.13[FS] | 2.8.8.4.15[FS]; 2.8.4.6.5[FS] |
| 2.8.8.4.15 | Survey ND block locations | Planned | 10d | 10Feb14 21Feb14 | 18Nov13 03Dec13 | None | | None | | 2.8.8.4.14[FS] | 2.10.8.3[FS]; 2.8.2.6[FS] |
| 2.9 | Far Detector Assembly | In Progress | 1777d | 04Sep07 30Sep14 | 04Sep07 30Sep14 | None | | None | | | |
| 2.9.1 | Mechanical Systems | In Progress | 1628d | 04Sep07 28Feb14 | 04Sep07 28Feb14 | None | | None | | | |
| 2.9.1.1 | Module Lifting Fixtures | Complete | 799d | 01Sep09 02Nov12 | 02Feb09 20Sep12 | None | | None | | | |
| 2.9.1.1.1 | Complete module lifting fixture design | Complete | 24d | 01Sep09 30Sep09 | 02Feb09 05Mar09 | None | | None | | 1.8.6.1.4[FS]; 2.10.9.7[FS]; 1.9.4.3[FS] | 2.9.1.1.12[FS]; 2.9.1.1.2[FF] |
| 2.9.1.1.2 | Design review: module lifting fixture | Complete | 5d | 01Sep11 30Sep11 | 27Feb09 05Mar09 | None | | None | | 1.8.6.1.12[FS]; 2.9.1.1.12[FS]; 2.9.1.1.1[FF] | 2.9.1.1.3[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.1.1.3 | Final design approved - module lifting fixture | Complete | 0 | 30Sep11 30Sep11 | 05Mar09 05Mar09 | None | | None | | 2.9.1.1.2[FS] | 2.9.1.1.4[FS]; 2.9.1.1.16[FS] |
| 2.9.1.1.4 | Procure components | Complete | 24d | 01Sep09 30Sep09 | 01Oct09 03Nov09 | None | | None | | 2.9.1.1.3[FS]; 2.10.8.2[FS] | 2.9.1.1.5[FS] |
| 2.9.1.1.5 | Fabricate components | Complete | 20d | 01Sep09 30Sep09 | 04Nov09 03Dec09 | None | | None | | 2.9.1.1.4[FS] | 2.9.1.1.6[FS] |
| 2.9.1.1.6 | Test fixture on prototype modules | Complete | 10d | 01Sep09 30Sep09 | 04Dec09 17Dec09 | None | | None | | 2.9.1.1.5[FS] | 2.9.1.1.7[FS]; 2.9.1.1.29[FS] |
| 2.9.1.1.7 | Document operating procedures | Complete | 8d | 01Nov11 30Apr12 | 18Dec09 04Jan10 | None | | None | | 2.9.1.1.6[FS] | 2.9.1.1.8[FS] |
| 2.9.1.1.8 | Operations review: module lifting fixture | Complete | 5d | 15May12 22May12 | 05Jan10 11Jan10 | None | | None | | 2.9.1.1.7[FS] | 2.9.1.1.20[FS]; 2.9.1.1.9[FS]; 2.9.1.1.18[FS] |
| 2.9.1.1.9 | Module lifting fixtures completed | Complete | 0 | 02Nov12 02Nov12 | 11Jan10 11Jan10 | None | | None | | 2.9.1.1.8[FS]; 2.9.1.1.18[SS+2d] | 2.9.1.1.10[FS]; 2.9.1.1.19[FS] |
| 2.9.1.1.10 | Disassemble and pack for shipping | Complete | 2d | 01Feb12 02Nov12 | 12Jan10 13Jan10 | None | | None | | 2.9.1.1.9[FS] | 2.9.1.1.11[FS] |
| 2.9.1.1.11 | Module lifting fixtures ready for shipping | Complete | 0 | 02Nov12 02Nov12 | 13Jan10 13Jan10 | None | | None | | 2.9.1.1.10[FS] | 2.9.4.1.3[FS] |
| 2.9.1.1.12 | Complete module lifting fixture design - additional | Complete | 48d | 02May11 28Jun11 | 04Sep09 11Nov09 | None | | None | | 2.9.1.1.1[FS] | 2.9.1.1.2[FS]; 2.9.1.1.13[FS] |
| 2.9.1.1.13 | Procure components - additional | Complete | 24d | 01Nov10 31Mar11 | 18Jan11 18Feb11 | None | | None | | 2.9.1.1.12[FS] | 2.9.1.1.14[FS] |
| 2.9.1.1.14 | Fabricate components - additional | Complete | 20d | 01Nov10 31Mar11 | 21Feb11 18Mar11 | None | | None | | 2.9.1.1.13[FS] | 2.9.1.1.15[FS]; 2.9.1.1.17[FS] |
| 2.9.1.1.15 | Test components - additional | Complete | 10d | 02May11 28Jun11 | 22Jul11 04Aug11 | None | | None | | 2.9.1.1.14[FS]; 2.9.1.1.17[FS] | 2.9.4.3.2[SS+3d] |
| 2.9.1.1.16 | Procurement components- additional 2 | Complete | 60d | 01Mar11 28Jun11 | 18Mar11 10Jun11 | None | | None | | 2.9.1.1.3[FS] | 2.9.1.1.17[FF] |
| 2.9.1.1.17 | Fabricate components- additional 2 | Complete | 60d | 01Mar11 28Jun11 | 27Apr11 21Jul11 | None | | None | | 2.9.1.1.14[FS]; 2.9.1.1.16[FF] | 2.9.1.1.20[FS]; 2.9.1.1.15[FS] |
| 2.9.1.1.18 | Certify vacuum lifters | Complete | 5d | 05Jul11 01Nov12 | 01Aug11 05Aug11 | None | | None | | 2.9.1.1.8[FS] | 2.9.1.1.9[SS+2d] |
| 2.9.1.1.19 | Spare vacuum cups | Complete | 30d | 01Nov12 01Nov12 | 02Apr12 25Jun12 | None | | None | | 2.9.1.1.9[FS]; 2.9.1.1.29[FS] | 2.9.4.3.16[FS] |
| 2.9.1.1.20 | Safety catch system | Complete | 22d | 01Feb12 29Feb12 | 19Dec11 24Jan12 | None | | None | | 2.9.1.1.17[FS]; 2.9.1.1.8[FS] | 2.9.4.3.4[FS] |
| 2.9.1.1.21 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 01Jun12 01Jun12 | 01Jun12 01Jun12 | None | | None | | | 2.9.1.1.22[FS] |
| 2.9.1.1.22 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 04Jun12 04Jun12 | 04Jun12 04Jun12 | None | | None | | 2.9.1.1.21[FS] | 2.9.1.1.23[FS] |
| 2.9.1.1.23 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 05Jun12 05Jun12 | 05Jun12 05Jun12 | None | | None | | 2.9.1.1.22[FS] | 2.9.1.1.24[FS] |
| 2.9.1.1.24 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 06Jun12 06Jun12 | 06Jun12 06Jun12 | None | | None | | 2.9.1.1.23[FS] | 2.9.1.1.25[FS] |
| 2.9.1.1.25 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 07Jun12 07Jun12 | 07Jun12 07Jun12 | None | | None | | 2.9.1.1.24[FS] | 2.9.1.1.26[FS] |
| 2.9.1.1.26 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 08Jun12 08Jun12 | 08Jun12 08Jun12 | None | | None | | 2.9.1.1.25[FS] | 2.9.1.1.27[FS] |
| 2.9.1.1.27 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 11Jun12 11Jun12 | 11Jun12 11Jun12 | None | | None | | 2.9.1.1.26[FS] | 2.9.1.1.28[FS] |
| 2.9.1.1.28 | Refurbish 50 vacuum cups (OBSOLETE) | Complete | 1d | 12Jun12 12Jun12 | 12Jun12 12Jun12 | None | | None | | 2.9.1.1.27[FS] | |
| 2.9.1.1.29 | Procure oblong Anver cups | Complete | 78d | 01Jun12 01Nov12 | 01Jun12 20Sep12 | None | | None | | 2.9.1.1.6[FS] | 2.9.1.1.19[FS] |
| 2.9.1.2 | Adhesive Dispenser | Complete | 712d | 01Sep09 02Jul12 | 26Aug09 25Apr11 | None | | None | | | |
| 2.9.1.2.1 | Complete adhesive dispenser design | Complete | 72d | 01Sep09 30Sep09 | 26Aug09 08Dec09 | None | | None | | 1.8.8.1.13[FS]; 1.8.6.2.7[FS] | 2.9.1.2.2[FS] |
| 2.9.1.2.2 | Procure components | Complete | 30d | 02Nov09 01Feb10 | 01Apr10 12May10 | None | | None | | 2.9.1.2.1[FS]; 2.10.8.2[FS] | 2.9.1.2.3[FS]; 2.9.1.2.10[FS] |
| 2.9.1.2.3 | Assemble dispenser | Complete | 30d | 02Nov09 01Feb10 | 13May10 24Jun10 | None | | None | | 2.9.1.2.2[FS] | 2.9.1.2.4[FS] |
| 2.9.1.2.4 | Test dispenser on prototype modules | Complete | 21d | 01Sep09 30Sep09 | 30Dec09 01Feb10 | None | | None | | 2.9.1.2.3[FS] | 2.9.1.2.5[FS] |
| 2.9.1.2.5 | Document operating procedures | Complete | 8d | 01Nov11 30Mar12 | 25Jun10 07Jul10 | None | | None | | 2.9.1.2.4[FS] | 2.9.1.2.6[FS] |
| 2.9.1.2.6 | Operations review: adhesive dispenser | Complete | 5d | 02Jul12 02Jul12 | 08Jul10 14Jul10 | None | | None | | 2.9.1.2.5[FS] | 2.9.1.2.7[FS] |
| 2.9.1.2.7 | Adhesive dispenser completed | Complete | 0 | 02Jul12 02Jul12 | 14Jul10 14Jul10 | None | | None | | 2.9.1.2.6[FS]; 2.9.1.2.10[FS] | 2.9.1.2.8[FS] |
| 2.9.1.2.8 | Disassemble and pack for shipping | Complete | 5d | 11Oct11 17Oct11 | 05Oct10 11Oct10 | None | | None | | 2.8.2.3.2.2.3[FS]; 2.9.1.2.7[FS] | 2.9.1.2.9[FS] |
| 2.9.1.2.9 | Adhesive dispenser ready for shipping | Complete | 0 | 17Oct11 17Oct11 | 11Oct10 11Oct10 | None | | None | | 2.9.1.2.8[FS] | 2.9.4.1.7.1[FS] |
| 2.9.1.2.10 | Procure components - additional | Complete | 60d | 01Feb11 16Mar11 | 01Feb11 25Apr11 | None | | None | | 2.9.1.2.2[FS] | 2.9.1.2.7[FS] |
| 2.9.1.3 | Block Safety Constraint Beam (OBSOLETE) | Complete | 7d | 01Aug11 09Aug11 | 24Jul09 14Oct10 | None | | None | | | |
| 2.9.1.3.1 | Final design of safety constraint beam (OBSOLETE) | Complete | 1d | 01Aug11 01Aug11 | 24Jul09 26Aug09 | None | | None | | 1.8.8.1.13[FS]; 1.9.4.3[FS] | 2.9.1.3.2[FF] |
| 2.9.1.3.2 | Design review: safety constraint beam (OBSOLETE) | Complete | 1d | 01Aug11 01Aug11 | 17Aug09 26Aug09 | None | | None | | 1.8.6.1.12[FS]; 2.9.1.3.1[FF] | 2.9.1.3.3[FS] |
| 2.9.1.3.3 | Procure components (OBSOLETE) | Complete | 1d | 02Aug11 02Aug11 | 01Jun10 13Jul10 | None | | None | | 2.9.1.3.2[FS]; 2.10.8.2[FS] | 2.9.1.3.4[FS] |
| 2.9.1.3.4 | Fabricate components (OBSOLETE) | Complete | 1d | 03Aug11 03Aug11 | 14Jul10 16Aug10 | None | | None | | 2.9.1.3.3[FS] | 2.9.1.3.5[FS] |
| 2.9.1.3.5 | Test safety constraint (OBSOLETE) | Complete | 1d | 04Aug11 04Aug11 | 17Aug10 20Sep10 | None | | None | | 2.9.1.3.4[FS] | 2.9.1.3.6[FS] |
| 2.9.1.3.6 | Document installation procedures and analysis (OBSOLETE) | Complete | 1d | 05Aug11 05Aug11 | 21Sep10 30Sep10 | None | | None | | 2.9.1.3.5[FS] | 2.9.1.3.7[FS] |
| 2.9.1.3.7 | Operations review: safety contraint beam (OBSOLETE) | Complete | 1d | 08Aug11 08Aug11 | 01Oct10 07Oct10 | None | | None | | 2.9.1.3.6[FS] | 2.9.1.3.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.1.3.8 | Block safety constraint completed (OBSOLETE) | Complete | 0 | 08Aug11 08Aug11 | 07Oct10 07Oct10 | None | | None | | 2.9.1.3.7[FS] | 2.9.1.3.9[FS] |
| 2.9.1.3.9 | Disassemble and pack for shipping (OBSOLETE) | Complete | 1d | 09Aug11 09Aug11 | 08Oct10 14Oct10 | None | | None | | 2.9.1.3.8[FS] | 2.9.1.3.10[FS] |
| 2.9.1.3.10 | Constraint beam ready for shipping (OBSOLETE) | Complete | 0 | 09Aug11 09Aug11 | 14Oct10 14Oct10 | None | | None | | 2.9.1.3.9[FS] | 2.9.4.1.4[FS] |
| 2.9.1.4 | Block Pivoter Construction and Pallet Final Design | Complete | 1231d | 04Sep07 27Jul12 | 04Sep07 06Jul12 | None | | None | | | |
| 2.9.1.4.1 | Finalize block pivoter design | Complete | 4d | 04Sep07 28Dec07 | 04Sep07 28Dec07 | None | | None | | 1.8.6.2.5[FS]; 1.8.6.2.3[FS] | 2.9.1.4.2[FS]; 2.9.1.4.20[FS]; 2.9.1.4.19[FS]; 2.9.1.4.17[FS]; 1.8.6.2.4[SS+65d] |
| 2.9.1.4.2 | Design review: block pivoter | Complete | 10d | 01Sep11 30Sep11 | 19May09 02Jun09 | None | | None | | 1.8.6.2.4[FF]; 2.9.1.4.17[FF]; 1.8.6.1.12[FS]; 2.9.1.4.1[FS] | 2.9.1.4.3[FS-13d] |
| 2.9.1.4.3 | Construction of block pivoter and pallet begins | Complete | 0 | 15Sep11 15Sep11 | 03Jan11 03Jan11 | None | | None | | 2.10.8.2[FS]; 2.9.1.4.2[FS-13d] | 2.9.1.4.18.6[FS]; 2.9.1.4.18.7[FS]; 2.9.1.4.4[FS]; 2.9.1.4.9[FS]; 2.9.1.4.10[FS]; 2.9.1.4.6[FS]; 2.9.1.4.5[FS]; 2.9.1.4.18.1[FS]; 2.9.1.4.18.2[FS]; 2.9.1.4.18.8[FS]; 2.9.1.4.18.3[FS] |
| 2.9.1.4.4 | Fabricate demonstration pallet | Complete | 24d | 22Jun11 26Aug11 | 03Jan11 04Feb11 | None | | None | | 2.9.1.4.3[FS] | 2.9.1.4.11[FS]; 2.9.4.2.1.1[FS]; 2.9.4.2.5.10[FS] |
| 2.9.1.4.5 | Procure pivoter components (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 03Jan11 03Jan11 | None | | None | | 2.9.1.4.3[FS] | 2.9.4.1.8.1[FS] |
| 2.9.1.4.6 | Fabricate components (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 03Jan11 03Jan11 | None | | None | | 2.9.1.4.3[FS] | 2.9.4.1.8.1[FS] |
| 2.9.1.4.7 | Oversee assembly of pivoter components | Complete | 74d | 15Sep11 29Jun12 | 06Sep11 20Dec11 | None | | None | | 2.1.7.3.1[SS] | 2.9.1.4.11[FS] |
| 2.9.1.4.8 | Prepare test site | Complete | 5d | 01Sep11 30Sep11 | 06Jun11 27Jun11 | None | | None | | 2.1.2.5.22[FS] | 2.9.1.4.10[FS]; 2.9.1.4.9[FS]; 2.1.7.3.1[FS] |
| 2.9.1.4.9 | Design and construct block pivoter test load | Complete | 1d | 02Jul12 02Jul12 | 28Jun11 08Jul11 | None | | None | | 2.9.1.4.3[FS]; 2.9.1.4.8[FS] | 2.9.1.4.11[FS]; 2.9.1.4.10[FF] |
| 2.9.1.4.10 | Document and review test procedures | Complete | 8d | 01Jun12 07Jun12 | 28Jun11 08Jul11 | None | | None | | 2.9.1.4.3[FS]; 2.9.1.4.8[FS]; 2.9.1.4.9[FF] | 2.9.1.4.11[FS] |
| 2.9.1.4.11 | Test block pivoter | Complete | 5d | 01Jun12 07Jun12 | 21Dec11 05Jan12 | None | | None | | 2.9.1.4.4[FS]; 2.1.5.3.3.3[SS]; 2.1.5.3.6.5[SS]; 2.1.7.3.12[FS]; 2.1.7.3.13[FS]; 2.1.7.3.14[FF]; 2.9.1.4.9[FS]; 2.9.1.4.7[FS]; 2.9.1.4.10[FS] | 2.9.1.4.12[FF] |
| 2.9.1.4.12 | Document operating procedures | Complete | 8d | 01Nov11 29Jun12 | 21Dec11 05Jan12 | None | | None | | 2.9.1.4.11[FF] | 2.9.1.4.13[FF]; 2.9.4.1.8.8[FF] |
| 2.9.1.4.13 | Operations review: block pivoter | Complete | 7d | 02Jul12 02Jul12 | 06Jan12 20Jan12 | None | | None | | 2.9.1.4.12[FF]; 2.9.1.4.18.8[FS] | 2.9.4.3.1[SS]; 2.9.1.4.14[FS] |
| 2.9.1.4.14 | Block pivoter completed | Complete | 0 | 30Apr12 30Apr12 | 30Apr12 30Apr12 | None | | None | | 2.9.1.4.19[FS]; 2.9.1.4.20[FS]; 2.9.1.4.13[FS]; 2.1.7.3.16[FS] | 2.9.4.1.8.7[FS]; 2.9.1.4.21[FS]; 2.9.1.4.15[FS] |
| 2.9.1.4.15 | Disassemble and pack for shipping (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 19Aug11 19Aug11 | None | | None | | 2.9.1.4.14[FS] | 2.9.1.4.16[FS] |
| 2.9.1.4.16 | Block pivoter ready for shipping (OBSOLETE) | Complete | 0 | 01Feb11 01Feb11 | 19Aug11 19Aug11 | None | | None | | 2.9.1.4.15[FS] | |
| 2.9.1.4.17 | Finalize block pivoter design - Part 2 | Complete | 40d | 01Nov10 31Aug11 | 02Feb09 18May09 | None | | None | | 2.10.9.7[FS]; 2.9.1.4.1[FS] | 2.9.1.4.2[FF] |
| 2.9.1.4.18 | Block Pivoter Component Procurements | Complete | 335d | 03Jan11 30Apr12 | 01Feb11 25Oct11 | None | | None | | | |
| 2.9.1.4.18.1 | Procure cylinders and power unit | Complete | 48d | 03Jan11 14Apr11 | 01Feb11 07Apr11 | None | | None | | 2.9.1.4.3[FS] | 2.1.7.3.10[FS] |
| 2.9.1.4.18.2 | Procure drive unit | Complete | 48d | 01Feb11 23Feb11 | 01Apr11 08Jun11 | None | | None | | 2.9.1.4.3[FS] | 2.1.7.3.7[FS] |
| 2.9.1.4.18.3 | Procure upper frame | Complete | 48d | 03Jan11 09Jun11 | 01Feb11 07Apr11 | None | | None | | 2.9.1.4.3[FS] | 2.1.7.3.9[FS] |
| 2.9.1.4.18.4 | Procure lower frame | Complete | 21d | 27May11 09Jun11 | 01Jun11 29Jun11 | None | | None | | | 2.1.7.3.2[FS] |
| 2.9.1.4.18.5 | Procure dunnage assembly | Complete | 44d | 01Aug11 11Nov11 | 01Aug11 30Sep11 | None | | None | | | 2.1.7.3.13[FS] |
| 2.9.1.4.18.6 | Procure kneeling cylinders and drive | Complete | 48d | 03Jan11 23Feb11 | 01Feb11 07Apr11 | None | | None | | 2.9.1.4.3[FS] | 2.1.7.2[FS]; 2.1.7.3.8[FS] |
| 2.9.1.4.18.7 | Procure table top | Complete | 72d | 29Jul11 21Feb12 | 15Jul11 25Oct11 | None | | None | | 2.9.1.4.3[FS] | 2.1.7.3.13[SS+55d]; 2.1.7.3.13[FF+5d] |
| 2.9.1.4.18.8 | Procure miscellaneous parts | Complete | 48d | 03Jan11 30Apr12 | 01Feb11 07Apr11 | None | | None | | 2.9.1.4.3[FS] | 2.9.1.4.13[FS] |
| 2.9.1.4.19 | Block pivoter engineering support - design phase - supplemental | Complete | 87d | 01Mar11 30Sep11 | 01Mar11 30Jun11 | None | | None | | 2.9.1.4.1[FS] | 2.9.1.4.14[FS] |
| 2.9.1.4.20 | Block pivoter subassembly preparation | Complete | 87d | 01Mar11 30Mar12 | 01Mar11 30Jun11 | None | | None | | 2.9.1.4.1[FS] | 2.9.1.4.22[FS]; 2.9.1.4.14[FS] |
| 2.9.1.4.21 | Block pivoter engineering support - commissioning phase | Complete | 43d | 19Oct11 27Jul12 | 23Jan12 21Mar12 | None | | None | | 2.9.1.4.14[FS] | |
| 2.9.1.4.22 | Table top leveling | Complete | 5d | 01Jun12 07Jun12 | 01Jun12 07Jun12 | None | | None | | 2.9.1.4.20[FS] | 2.9.1.4.23[FS] |
| 2.9.1.4.23 | Alignment system installation | Complete | 5d | 08Jun12 14Jun12 | 08Jun12 14Jun12 | None | | None | | 2.9.1.4.22[FS] | 2.9.1.4.24[FS] |
| 2.9.1.4.24 | Block installation commissioning | Complete | 5d | 15Jun12 21Jun12 | 15Jun12 21Jun12 | None | | None | | 2.9.1.4.23[FS] | 2.9.1.4.25[FS] |
| 2.9.1.4.25 | Tower installation and relocation | Complete | 5d | 22Jun12 28Jun12 | 22Jun12 28Jun12 | None | | None | | 2.9.1.4.24[FS] | 2.9.1.4.26[FS] |
| 2.9.1.4.26 | Fall protection construction and installation | Complete | 5d | 29Jun12 27Jul12 | 29Jun12 06Jul12 | None | | None | | 2.9.1.4.25[FS] | 2.9.4.3.2[FS] |
| 2.9.1.5 | Survey Equipment | Complete | 731d | 12Jan10 04Dec12 | 01Feb10 04Dec12 | None | | None | | | |
| 2.9.1.5.1 | Specify survey requirements | Complete | 21d | 03Oct11 31May12 | 01Feb10 31Mar10 | None | | None | | 2.10.8.2[FF]; 1.8.6.3[FF] | 2.9.1.5.2[FF] |
| 2.9.1.5.2 | Procure survey equipment | Complete | 60d | 12Jan10 31May12 | 01Apr10 24Jun10 | None | | None | | 2.9.1.5.1[FF] | 2.9.1.5.3[FF-5d] |
| 2.9.1.5.3 | Document survey procedures | Complete | 13d | 01May12 29Jun12 | 25Jun10 16Jul10 | None | | None | | 2.9.1.5.2[FF-5d] | 2.9.4.1.9.3[FF]; 2.9.1.5.4[FS] |
| 2.9.1.5.4 | Survey equipment ready for assembly | Complete | 0 | 29Jun12 29Jun12 | 16Jul10 16Jul10 | None | | None | | 2.9.1.5.3[FS] | 2.9.4.1.9.1[FS] |
| 2.9.1.5.5 | Scanner maintenance - 2013 (OBSOLETE) | Complete | 1d | 03Dec12 03Dec12 | 03Dec12 03Dec12 | None | | None | | 2.9.4.3.2[FS] | 2.9.1.5.6[FS] |
| 2.9.1.5.6 | Scanner maintenance - 2014 (OBSOLETE) | Complete | 1d | 04Dec12 04Dec12 | 04Dec12 04Dec12 | None | | None | | 2.9.1.5.5[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.1.6 | Quality Assurance | In Progress | 731d | 01Apr11 28Feb14 | 03Jan11 28Feb14 | None | | None | | | |
| 2.9.1.6.1 | Pressure Tester | Complete | 397d | 01Apr11 25Oct12 | 03Jan11 30Apr12 | None | | None | | | |
| 2.9.1.6.1.1 | Design pressure tester | Complete | 80d | 01Apr11 30Nov11 | 03Jan11 25Apr11 | None | | None | | | 2.9.1.6.1.2[FS] |
| 2.9.1.6.1.2 | Build assembly production leak tester | Complete | 41d | 17Jan12 19Apr12 | 03Jan12 29Feb12 | None | | None | | 2.9.1.6.1.1[FS] | 2.9.1.6.1.3[FS] |
| 2.9.1.6.1.3 | Build block leak tester | Complete | 43d | 01May12 25Oct12 | 01Mar12 30Apr12 | None | | None | | 2.9.1.6.1.2[FS] | 2.9.4.4.60.1[FS-3d]; 2.9.4.4.2[FS-3d] |
| 2.9.1.6.2 | Database Support | In Progress | 603d | 03Oct11 28Feb14 | 02May11 28Feb14 | None | | None | | | |
| 2.9.1.6.2.1 | Procure scanners and computers | Complete | 12d | 01May12 28Sep12 | 02May11 31May11 | None | | None | | 2.1.2.5.22[FS+17d] | 2.9.4.3.2[SS+6d] |
| 2.9.1.6.2.2 | Setup and develop procedures | Complete | 43d | 01Feb12 31Oct12 | 02May11 29Jul11 | None | | None | | 2.1.2.5.22[FS+17d] | 2.9.4.3.2[SS+20d] |
| 2.9.1.6.2.3 | Software Development | Complete | 311d | 03Oct11 28Dec12 | 03Oct11 28Feb13 | None | | None | | | |
| 2.9.1.6.2.3.1 | Establish scope | Complete | 41d | 03Oct11 31Jan12 | 03Oct11 30Nov11 | None | | None | | | 2.9.1.6.2.3.2[FS] |
| 2.9.1.6.2.3.2 | Initial design | Complete | 60d | 01Mar12 30Apr12 | 01Dec11 29Feb12 | None | | None | | 2.9.1.6.2.3.1[FS] | 2.9.1.6.2.3.3[FS] |
| 2.9.1.6.2.3.3 | Design inventory management | Complete | 22d | 01May12 29Jun12 | 01Mar12 30Mar12 | None | | None | | 2.9.1.6.2.3.2[FS] | 2.9.1.6.2.3.4[FS] |
| 2.9.1.6.2.3.4 | Construct full system at Ash River | Complete | 43d | 02Jul12 03Aug12 | 02Apr12 31May12 | None | | None | | 2.9.1.6.2.3.3[FS] | 2.9.1.6.2.3.5[FS] |
| 2.9.1.6.2.3.5 | First implementation during assembly | Complete | 42d | 01Aug12 31Aug12 | 01Jun12 31Jul12 | None | | None | | 2.9.1.6.2.3.4[FS] | 2.9.1.6.2.3.6[FS] |
| 2.9.1.6.2.3.6 | Support during assembly | Complete | 144d | 04Sep12 28Dec12 | 01Aug12 28Feb13 | None | | None | | 2.9.1.6.2.3.5[FS] | 2.9.4.3.65[FS]; 2.9.1.6.2.4.1[SS] |
| 2.9.1.6.2.4 | Outfitting Phase | In Progress | 251d | 01Mar13 28Feb14 | 01Mar13 28Feb14 | None | | None | | | |
| 2.9.1.6.2.4.1 | Complete design | Complete | 85d | 01Mar13 28Jun13 | 01Mar13 28Jun13 | None | | None | | 2.9.1.6.2.3.6[SS] | 2.9.1.6.2.4.2[FS] |
| 2.9.1.6.2.4.2 | Implementation | Planned | 64d | 01Jul13 30Sep13 | 01Jul13 30Sep13 | None | | None | | 2.9.1.6.2.4.1[FS] | 2.9.1.6.2.4.3[FS] |
| 2.9.1.6.2.4.3 | Support during outfitting | Planned | 102d | 01Oct13 28Feb14 | 01Oct13 28Feb14 | None | | None | | 2.9.1.6.2.4.2[FS] | 2.9.4.3.65[FS] |
| 2.9.2 | Detector Infrastructure | In Progress | 901d | 02Aug10 05Mar14 | 02Feb09 27Aug13 | None | | None | | | |
| 2.9.2.1 | Electrical Infrastructure (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 07Apr11 13Apr11 | None | | None | | | |
| 2.9.2.1.1 | Install circuits from panels to glue machine area (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 07Apr11 07Apr11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.2.1.2[FS] |
| 2.9.2.1.2 | Install circuits from panels to block pivoter area (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 08Apr11 08Apr11 | None | | None | | 2.9.2.1.1[FS] | 2.9.2.1.3[FS] |
| 2.9.2.1.3 | Install circuits from panels to scintillator equipment (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 11Apr11 11Apr11 | None | | None | | 2.9.2.1.2[FS] | 2.9.2.1.4[FS] |
| 2.9.2.1.4 | Install circuits from panels to electronics racks/refrigerators (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 12Apr11 12Apr11 | None | | None | | 2.9.2.1.3[FS] | 2.9.2.1.5[FS] |
| 2.9.2.1.5 | Install machine shop and control room circuits (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 13Apr11 13Apr11 | None | | None | | 2.9.2.1.4[FS] | |
| 2.9.2.2 | Bookends | In Progress | 901d | 02Aug10 05Mar14 | 02Feb09 27Aug13 | None | | None | | | |
| 2.9.2.2.21 | South Bookend (OBSOLETE) | Complete | 125d | 02Aug10 01Feb11 | 02Feb09 28Apr11 | None | | None | | | |
| 2.9.2.2.21.1 | Finalize design of south bookend (OBSOLETE) | Complete | 1d | 02Aug10 02Aug10 | 02Feb09 20Feb09 | None | | None | | 1.9.4.3[FS]; 2.10.9.7[FS] | 2.9.2.2.21.2[FF] |
| 2.9.2.2.21.2 | Design review:south bookend (OBSOLETE) | Complete | 1d | 02Aug10 02Aug10 | 16Feb09 20Feb09 | None | | None | | 1.8.6.1.12[FS]; 2.9.2.2.21.1[FF] | 2.9.2.2.21.3[FS] |
| 2.9.2.2.21.3 | Final design approved-south bookend (OBSOLETE) | Complete | 0 | 02Aug10 02Aug10 | 20Feb09 20Feb09 | None | | None | | 2.9.2.2.21.2[FS] | 2.9.2.2.21.4[FS]; 2.9.2.2.21.5[SS] |
| 2.9.2.2.21.4 | Procure south bookend components (OBSOLETE) | Complete | 1d | 01Sep10 01Sep10 | 01Sep10 01Sep10 | None | | None | | 2.9.2.2.21.3[FS]; 2.10.8.2[FS] | 2.9.2.2.21.6[FS] |
| 2.9.2.2.21.5 | Fabricate components (OBSOLETE) | Complete | 1d | 03Aug10 03Aug10 | 23Feb09 13Mar09 | None | | None | | 2.9.2.2.21.3[SS] | 2.9.2.2.21.6[FS] |
| 2.9.2.2.21.6 | South bookend components ready for shipment (OBSOLETE) | Complete | 0 | 01Feb11 01Feb11 | 28Apr11 28Apr11 | None | | None | | 2.9.2.2.21.4[FS]; 2.1.2.5.22[FS]; 2.9.2.2.21.5[FS]; 2.1.2.3.3[FS] | 2.9.4.1.5[FS] |
| 2.9.2.2.22 | North Bookend | In Progress | 333d | 01Nov12 05Mar14 | 02Feb09 27Aug13 | None | | None | | | |
| 2.9.2.2.22.1 | Finalize design of north bookend | In Progress | 30d | 01Nov12 15Jul13 | 02Feb09 13Mar09 | None | | None | | 1.9.4.3[FS]; 2.10.9.7[FS] | 2.9.2.2.22.9[FS]; 2.9.2.2.22.2[FF] |
| 2.9.2.2.22.2 | Design review: north bookend | Planned | 10d | 01Jul13 15Jul13 | 02Mar09 13Mar09 | None | | None | | 2.9.2.2.22.1[FF] | 2.9.2.2.22.3[FS] |
| 2.9.2.2.22.3 | Final design approved- north bookend | Planned | 0 | 11Nov13 11Nov13 | 13Mar09 13Mar09 | None | | None | | 2.9.2.2.22.9[FS]; 2.9.2.2.22.2[FS] | 2.9.2.2.22.5[SS]; 2.9.2.2.22.4[FS] |
| 2.9.2.2.22.4 | Procure north bookend components | Planned | 30d | 12Nov13 27Dec13 | 15May13 26Jun13 | None | | None | | 2.9.2.2.22.3[FS]; 2.9.4.3.29[FS]; 2.10.8.2[FS] | 2.9.2.2.22.6[FS] |
| 2.9.2.2.22.5 | Fabricate components | Planned | 30d | 12Nov13 27Dec13 | 16Mar09 24Apr09 | None | | None | | 2.9.2.2.22.3[SS] | 2.9.2.2.22.6[FS] |
| 2.9.2.2.22.6 | Prepare components for shipment to far site | Planned | 5d | 30Dec13 07Jan14 | 27Jun13 03Jul13 | None | | None | | 2.1.2.5.22[FS]; 2.9.2.2.22.4[FS]; 2.9.2.2.22.5[FS]; 2.1.2.3.3[FS] | 2.9.2.2.22.7[FS] |
| 2.9.2.2.22.7 | Ship components to far site | Planned | 3d | 08Jan14 10Jan14 | 30Jul13 01Aug13 | None | | None | | 2.9.2.2.22.6[FS]; 2.9.4.3.31[FS] | 2.9.2.2.22.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.2.2.22.8 | Convert block pivoter to north bookend | Planned | 3d | 03Mar14 05Mar14 | 23Aug13 27Aug13 | None | | None | | 2.9.2.2.22.7[FS]; 2.9.4.3.65[FS] | 2.9.4.4.44[FS]; 2.9.4.4.46[FS]; 2.2.5.3.28[FS]; 2.9.4.4.34[FS]; 2.9.4.4.36[FS]; 2.2.5.3.32[SS-1d]; 2.9.4.4.35[FS]; 2.2.5.3.29[FS]; 2.2.5.3.30[FS]; 2.2.5.3.31[SS-1d]; 2.2.5.3.33[SS-1d]; 2.9.4.4.45[FS]; 2.9.4.4.60.28[FS]; 2.9.4.4.60.30[FS] |
| 2.9.2.2.22.9 | Design north bookend - supplemental | Planned | 84d | 16Jul13 11Nov13 | 02Jan13 30Apr13 | None | | None | | 2.9.2.2.22.1[FS] | 2.9.2.2.22.3[FS] |
| 2.9.2.2.23 | South Bookend (Revived) | Complete | 100d | 01Sep11 30Jan12 | 01Sep11 13Jan12 | None | | None | | | |
| 2.9.2.2.23.1 | Design south bookend | Complete | 21d | 01Sep11 30Sep11 | 01Sep11 30Sep11 | None | | None | | | 2.9.2.2.23.2[FS] |
| 2.9.2.2.23.2 | South bookend design review | Complete | 5d | 13Sep11 20Sep11 | 03Oct11 07Oct11 | None | | None | | 2.9.2.2.23.1[FS] | 2.9.2.2.23.3[FS+16d] |
| 2.9.2.2.23.3 | Fabricate south bookend components | Complete | 25d | 24Oct11 16Dec11 | 01Nov11 07Dec11 | None | | None | | 2.9.2.2.23.2[FS+16d] | 2.9.2.2.23.4[FS] |
| 2.9.2.2.23.4 | Approve south bookend components | Complete | 2d | 19Dec11 19Dec11 | 08Dec11 09Dec11 | None | | None | | 2.9.2.2.23.3[FS] | 2.9.2.2.23.5[FS] |
| 2.9.2.2.23.5 | Install south bookend | Complete | 21d | 09Jan12 30Jan12 | 12Dec11 13Jan12 | None | | None | | 2.9.2.2.23.4[FS] | 2.9.4.5.0.15[FS]; 2.9.4.3.2[FS] |
| 2.9.2.3 | Detector Structure Monitoring Equipment | In Progress | 698d | 03Jan11 08Oct13 | 01Apr11 24May13 | None | | None | | | |
| 2.9.2.3.1 | Procure stress monitors | Complete | 40d | 03Jan11 30Apr12 | 01Apr11 26May11 | None | | None | | 2.1.2.5.22[FS-250d]; 1.8.8.2.8[FS]; 2.1.2.3.3[FS-250d] | 2.9.2.3.5[FS]; 2.9.2.3.11[FS]; 2.9.2.3.7[FF] |
| 2.9.2.3.2 | Procure pressure monitors | Complete | 40d | 03Jan11 30Apr12 | 01Apr11 26May11 | None | | None | | 2.1.2.5.22[FS-250d]; 1.8.8.2.8[FS]; 2.1.2.3.3[FS-250d] | 2.9.2.3.5[FS]; 2.9.2.3.8[FF]; 2.9.2.3.12[FS] |
| 2.9.2.3.3 | Procure gap monitors | Complete | 40d | 03Jan11 30Apr12 | 01Apr11 26May11 | None | | None | | 1.8.8.2.8[FS]; 2.1.2.3.3[FS-250d]; 2.1.2.5.22[FS-250d] | 2.9.2.3.5[FS]; 2.9.2.3.4[FF]; 2.9.2.3.10[FS] |
| 2.9.2.3.4 | Procure block gap monitors-supplemental | In Progress | 80d | 01Jun12 06Aug13 | 01Jun12 19Nov12 | None | | None | | 2.9.4.3.3[FS-28d]; 2.1.2.5.22[FS-250d]; 1.8.8.2.8[FS]; 2.1.2.3.3[FS-250d]; 2.9.2.3.3[FF] | 2.9.2.3.10[FF]; 2.9.2.3.6[SS+6d]; 2.9.4.4.60.3[SS+12d]; 2.9.4.4.4[SS+12d] |
| 2.9.2.3.5 | Assemble and test structure monitoring equipment | Complete | 20d | 02Apr12 30Apr12 | 27May11 24Jun11 | None | | None | | 2.9.2.3.2[FS]; 2.9.2.3.3[FS]; 2.9.2.3.1[FS] | 2.9.2.3.6[FS]; 2.9.4.4.60.1[FS]; 2.9.4.4.2[FS] |
| 2.9.2.3.6 | Assemble and test structure monitoring equipment-supplemental | Complete | 80d | 02Apr12 30Apr12 | 01Jul11 29Dec11 | None | | None | | 2.9.2.3.7[FF-23d]; 2.9.2.3.5[FS]; 2.9.2.3.4[SS+6d]; 2.9.2.3.8[SS+6d] | 2.9.4.4.6[SS]; 2.9.4.4.60.5[SS] |
| 2.9.2.3.7 | Procure stress monitors-supplemental | In Progress | 40d | 01Oct12 15Jul13 | 01Jun12 19Nov12 | None | | None | | 2.9.4.3.3[FS-28d]; 2.9.2.3.1[FF] | 2.9.2.3.6[FF-23d]; 2.9.2.3.11[FF]; 2.9.4.4.5[SS+10d]; 2.9.4.4.60.4[SS+10d] |
| 2.9.2.3.8 | Block instrumentation infrastructure | In Progress | 80d | 01Jun12 16Aug13 | 01Jun12 19Nov12 | None | | None | | 2.9.4.3.3[FS-28d]; 2.9.2.3.2[FF] | 2.9.4.4.60.3[SS+12d]; 2.9.2.3.12[FF]; 2.9.4.4.4[SS+12d]; 2.9.2.3.6[SS+6d] |
| 2.9.2.3.9 | Demonstration block instrumentation | Complete | 30d | 03Oct11 28Oct11 | 01Nov11 14Dec11 | None | | None | | 2.9.4.8.6[SS] | 2.9.4.8.7[FS] |
| 2.9.2.3.10 | Assemble production block proximity sensors | In Progress | 140d | 01Nov12 27Aug13 | 01Nov12 24May13 | None | | None | | 2.9.2.3.3[FS]; 2.9.2.3.4[FF] | 2.9.4.3.38[FF] |
| 2.9.2.3.11 | Assemble production strain gauges | In Progress | 140d | 01Nov12 19Aug13 | 01Nov12 24May13 | None | | None | | 2.9.2.3.1[FS]; 2.9.2.3.7[FF] | 2.9.4.3.38[FF] |
| 2.9.2.3.12 | Assemble instrumentation infrastructure | In Progress | 140d | 01Nov12 08Oct13 | 01Nov12 24May13 | None | | None | | 2.9.2.3.8[FF]; 2.9.2.3.2[FS] | 2.9.4.3.38[FF] |
| 2.9.2.4 | Support Infrastructure - Final Designs and Layout | Complete | 77d | 15Feb12 01Jun12 | 06Feb12 30Mar12 | None | | None | | | |
| 2.9.2.4.1 | Design unistrut supports - side - Far Detector | Complete | 20d | 20Feb12 01Jun12 | 06Feb12 02Mar12 | None | | None | | | 2.9.4.5.0.20[SS+5d]; 2.9.4.5.0.20[FF]; 2.9.2.4.2[FS] |
| 2.9.2.4.2 | Layout top and south wall infrastructure - Far Detector | Complete | 20d | 15Feb12 01Jun12 | 05Mar12 30Mar12 | None | | None | | 2.9.2.4.1[FS] | 2.9.4.5.0.15[FF]; 2.9.4.5.0.15[SS+5d]; 2.9.4.5.1[FS] |
| 2.9.3 | Scintillator Filling Equipment | Complete | 607d | 02Aug10 02Jan13 | 02Feb09 28Sep12 | None | | None | | | |
| 2.9.3.1 | Scintillator Transfer Facility | Complete | 570d | 02Aug10 03Nov12 | 02Feb09 10Nov11 | None | | None | | | |
| 2.9.3.1.1 | Finalize design of transfer facility | Complete | 20d | 01Nov10 01Sep11 | 02Feb09 27Feb09 | None | | None | | 1.8.3.2.2[FS]; 1.9.4.3[FS]; 2.10.9.7[FS] | 2.9.3.1.2[FF] |
| 2.9.3.1.2 | Design review: scintillator transfer facility | Complete | 5d | 20Apr11 30Mar12 | 23Feb09 27Feb09 | None | | None | | 2.9.3.1.1[FF] | 2.9.3.1.3[FS] |
| 2.9.3.1.3 | Scintillator transfer facility final design approved | Complete | 0 | 30Mar12 30Mar12 | 27Feb09 27Feb09 | None | | None | | 2.9.3.1.2[FS] | 2.9.3.1.4[FS] |
| 2.9.3.1.4 | Procure parts | Complete | 30d | 01Sep11 15Sep11 | 03May10 27Jul10 | None | | None | | 2.9.3.1.3[FS]; 2.10.8.2[FS] | 2.9.3.1.5.1[FS] |
| 2.9.3.1.5 | Commission Distribution Controls (Indiana) | Complete | 387d | 02Aug10 16Feb12 | 28Jul10 27Jan11 | None | | None | | | |
| 2.9.3.1.5.1 | Assemble parts, control system | Complete | 20d | 01Sep11 01Feb12 | 28Jul10 24Aug10 | None | | None | | 2.9.3.1.4[FS] | 2.9.3.1.5.2[FS] |
| 2.9.3.1.5.2 | Develop control scheme, monitoring software | Complete | 60d | 02Aug10 01Sep11 | 25Aug10 17Nov10 | None | | None | | 2.9.3.1.5.1[FS] | 2.9.3.1.5.3[FF+15d] |
| 2.9.3.1.5.3 | Test scintillator transfer control scheme | Complete | 25d | 15Sep11 15Feb12 | 18Nov10 05Jan11 | None | | None | | 2.9.3.1.5.2[FF+15d] | 2.9.3.1.5.4[FF] |
| 2.9.3.1.5.4 | Document scintillator transfer control system | Complete | 10d | 01Sep11 15Feb12 | 06Jan11 20Jan11 | None | | None | | 2.9.3.1.5.3[FF] | 2.9.3.1.5.5[FS] |
| 2.9.3.1.5.5 | Disassemble parts and prepare for shipping | Complete | 5d | 15Feb12 16Feb12 | 21Jan11 27Jan11 | None | | None | | 2.9.3.1.5.4[FS] | 2.9.3.1.6.1[FS] |
| 2.9.3.1.6 | Commission Distribution Controls (Ash River) | Complete | 184d | 16Feb12 03Nov12 | 29Apr11 10Nov11 | None | | None | | | |
| 2.9.3.1.6.1 | Ship distribution control system to far detector site | Complete | 3d | 16Feb12 16Feb12 | 29Apr11 03May11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS]; 2.9.3.1.5.5[FS] | 2.9.3.1.6.2[FS] |
| 2.9.3.1.6.2 | Assemble parts, control system | Complete | 20d | 16Feb12 20Feb12 | 04May11 01Jun11 | None | | None | | 2.9.3.1.6.1[FS] | 2.9.3.1.6.3[FS] |
| 2.9.3.1.6.3 | Test scintillator transfer control scheme | Complete | 20d | 20Feb12 22Feb12 | 07Oct11 03Nov11 | None | | None | | 2.9.3.1.6.2[FS] | 2.9.3.1.6.4[FF] |
| 2.9.3.1.6.4 | Document scintillator transfer control system | Complete | 10d | 20Feb12 21Feb12 | 21Oct11 03Nov11 | None | | None | | 2.9.3.1.6.3[FF] | 2.9.3.1.6.5[FS] |
| 2.9.3.1.6.5 | Operations review: scintillator transfer facility | Complete | 5d | 01Nov12 03Nov12 | 04Nov11 10Nov11 | None | | None | | 2.9.3.1.6.4[FS] | 2.9.3.5.1[FF] |
| 2.9.3.2 | Scintillator Distribution Plumbing | Complete | 375d | 01Nov10 30Apr12 | 02Feb09 20Jun12 | None | | None | | | |
| 2.9.3.2.1 | Finalize design of distribution plumbing | Complete | 20d | 01Nov10 01Sep11 | 02Feb09 27Feb09 | None | | None | | 1.9.4.3[FS]; 1.8.3.2.2[FS]; 2.10.9.7[FS] | 2.9.3.4.1[FS]; 2.9.3.2.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.3.2.2 | Procure scintillator distribution parts | Complete | 60d | 01Jul11 30Apr12 | 01Jul10 24Sep10 | None | | None | | 2.10.8.2[FS]; 2.9.3.2.1[FS] | 2.9.3.2.3[FS] |
| 2.9.3.2.3 | Install main distribution lines | Complete | 30d | 01Aug11 30Apr12 | 22Jul11 01Sep11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS]; 2.9.3.2.2[FS] | 2.9.3.5.4[FS]; 2.9.3.5.1[FS] |
| 2.9.3.2.4 | Install main distribution lines (supplemental) | Complete | 60d | 03Oct11 01Feb12 | 03Oct11 29Dec11 | None | | None | | | 2.9.3.5.1[FS] |
| 2.9.3.2.5 | Install main distribution lines (supplemental MandS) | Complete | 80d | 01Nov11 01Feb12 | 01Nov11 29Feb12 | None | | None | | | 2.9.3.2.6[FS]; 2.9.3.5.1[FS] |
| 2.9.3.2.6 | Procure additional distribution piping (supplemental MandS) | Complete | 40d | 02Apr12 30Apr12 | 25Apr12 20Jun12 | None | | None | | 2.9.3.2.5[FS] | 2.9.3.5.1[FS] |
| 2.9.3.3 | Scintillator Filling Machines | Complete | 569d | 02Aug10 01Nov12 | 02Feb09 12Jul11 | None | | None | | | |
| 2.9.3.3.1 | Finalize design of filling machines | Complete | 20d | 02Aug10 31Aug10 | 02Feb09 27Feb09 | None | | None | | 1.8.3.3.7[FS]; 2.10.9.7[FS]; 1.9.4.3[FS] | 2.9.3.3.2[FS] |
| 2.9.3.3.2 | Procure scintillator filling machine parts | Complete | 60d | 02Aug10 31May12 | 01Oct10 29Dec10 | None | | None | | 2.9.3.3.1[FS]; 2.10.8.2[FS] | 2.9.3.3.3[FS-45d] |
| 2.9.3.3.3 | Assemble and test filling machines | Complete | 125d | 02Aug10 31May12 | 30Dec10 27Jun11 | None | | None | | 2.9.3.3.2[FS-45d] | 2.9.3.3.4[FF-40d] |
| 2.9.3.3.4 | Document fillling machine operation | Complete | 10d | 01Feb12 01Nov12 | 28Jun11 12Jul11 | None | | None | | 2.9.3.3.3[FF-40d] | 2.9.3.5.1[FF] |
| 2.9.3.4 | Vapor Recovery System | Complete | 294d | 01Apr11 31May12 | 02Mar09 18Jan12 | None | | None | | | |
| 2.9.3.4.1 | Finalize vent design | Complete | 20d | 01Apr11 01Sep11 | 02Mar09 27Mar09 | None | | None | | 2.9.3.2.1[FS]; 1.8.3.2.2[FS]; 2.10.9.7[FS] | 2.9.3.4.2[FS] |
| 2.9.3.4.2 | Document vapor vent system | Complete | 10d | 01Sep11 15Sep11 | 30Mar09 10Apr09 | None | | None | | 2.9.3.4.1[FS] | 2.9.3.4.3[FS] |
| 2.9.3.4.3 | Procure vapor recovery parts | Complete | 62d | 01Aug11 30Apr12 | 01Sep11 30Nov11 | None | | None | | 2.9.3.4.2[FS]; 2.10.8.2[FS] | 2.9.3.4.4[FF] |
| 2.9.3.4.4 | Install main (building level) vent lines | Complete | 30d | 01Aug11 30Apr12 | 01Dec11 18Jan12 | None | | None | | 2.9.3.4.3[FF]; 2.1.2.3.3[FS]; 2.1.2.5.22[FS] | 2.9.3.5.1[FS] |
| 2.9.3.4.5 | Install main vent lines (supplemental) | Complete | 60d | 03Oct11 31May12 | 03Oct11 29Dec11 | None | | None | | | 2.9.3.5.1[FS] |
| 2.9.3.5 | Scintillator Filling System Commissioning | Complete | 146d | 01Jun12 02Jan13 | 19Jan12 28Sep12 | None | | None | | | |
| 2.9.3.5.1 | Connect and fill prototype modules (OBSOLETE) | Complete | 10d | 14Dec12 14Dec12 | 19Jan12 15Feb12 | None | | None | | 2.9.3.1.6.5[FF]; 2.9.3.3.4[FF]; 2.9.3.2.6[FS]; 2.9.3.4.5[FS]; 2.9.3.2.3[FS]; 2.9.3.4.4[FS]; 2.9.3.2.4[FS]; 2.9.3.2.5[FS] | 2.9.3.5.2[FF] |
| 2.9.3.5.2 | Document complete operating procedures | Complete | 10d | 01Oct12 02Jan13 | 06Jul12 19Jul12 | None | | None | | 2.9.3.5.1[FF] | 2.9.3.5.3[FS] |
| 2.9.3.5.3 | Operations review: scintillator filling system | Complete | 5d | 10Sep12 09Nov12 | 20Jul12 26Jul12 | None | | None | | 2.9.3.5.2[FS] | 2.9.3.6[FS] |
| 2.9.3.5.4 | Scintillator system certification | Complete | 84d | 01Jun12 03Nov12 | 01Jun12 28Sep12 | None | | None | | 2.9.3.2.3[FS] | 2.9.3.6[FS] |
| 2.9.3.6 | Scintillator filling system completed | Complete | 0 | 02Jan13 02Jan13 | 26Jul12 26Jul12 | None | | None | | 2.9.3.5.4[FS]; 2.9.3.5.3[FS] | 2.9.4.4.2[FF]; 2.9.4.4.1[FF] |
| 2.9.4 | Block Assembly and Installation | In Progress | 855d | 01Feb11 24Jun14 | 01Feb11 01Apr14 | None | | None | | | |
| 2.9.4.1 | Assembly Infrastructure Setup | In Progress | 733d | 01Feb11 30Dec13 | 04Feb11 28Feb14 | None | | None | | | |
| 2.9.4.1.1 | Install walkway work platforms | Complete | 5d | 01Apr11 29Apr11 | 29Apr11 05May11 | None | | None | | 2.1.2.3.3[FS]; 2.1.2.5.22[FS] | 2.9.4.1.8.2[FS] |
| 2.9.4.1.2 | Procure and setup material handling equipment | Complete | 117d | 01Jul11 30Mar12 | 01Jul11 16Dec11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS-55d] | 2.9.4.3.2[FS] |
| 2.9.4.1.3 | Ship module handling fixtures | Complete | 3d | 03Jan12 02Nov12 | 01Aug11 03Aug11 | None | | None | | 2.1.2.5.22[FS]; 2.9.1.1.11[FS]; 2.1.2.3.3[FS] | 2.9.4.3.2[SS+2d] |
| 2.9.4.1.4 | Ship block safety constraint beam (OBSOLETE) | Complete | 1d | 10Aug11 10Aug11 | 15Sep11 19Sep11 | None | | None | | 2.1.2.5.22[FS]; 2.9.1.3.10[FS]; 2.1.2.3.3[FS] | 2.9.4.3.2[FS] |
| 2.9.4.1.5 | Ship south bookend components (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 07Apr11 07Apr11 | None | | None | | 2.1.2.5.22[FS]; 2.9.2.2.21.6[FS]; 2.1.2.3.3[FS] | 2.9.4.1.6[FS] |
| 2.9.4.1.6 | Install south bookend (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 08Apr11 08Apr11 | None | | None | | 2.9.4.1.5[FS] | |
| 2.9.4.1.7 | Adhesive Dispenser | Complete | 359d | 01Feb11 02Jul12 | 19Apr11 16Dec11 | None | | None | | | |
| 2.9.4.1.7.1 | Ship adhesive dispenser | Complete | 3d | 10Oct11 12Oct11 | 10Oct11 12Oct11 | None | | None | | 2.1.2.5.22[FS]; 2.9.1.2.9[FS]; 2.1.2.3.3[FS] | 2.9.4.1.7.7[FS]; 2.9.4.1.7.2[FS] |
| 2.9.4.1.7.2 | Test adhesive ventilation system | Complete | 5d | 23Mar12 23Mar12 | 13Oct11 19Oct11 | None | | None | | 2.9.4.1.7.1[FS] | 2.9.4.1.7.3[FS] |
| 2.9.4.1.7.3 | Assemble adhesive dispenser (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 19Apr11 19Apr11 | None | | None | | 2.9.4.1.7.2[FS] | 2.9.4.1.7.4[FS] |
| 2.9.4.1.7.4 | Test and document adhesive dispenser | Complete | 10d | 17Jan12 23Mar12 | 28Nov11 09Dec11 | None | | None | | 2.9.4.1.7.7[FS]; 2.9.4.1.7.3[FS]; 2.1.5.3.2.4[FS] | 2.9.4.1.7.5[FS] |
| 2.9.4.1.7.5 | Operations review: adhesive dispenser at Ash River | Complete | 5d | 02Jul12 02Jul12 | 12Dec11 16Dec11 | None | | None | | 2.9.4.1.7.4[FS] | 2.9.4.1.7.6[FS] |
| 2.9.4.1.7.6 | Adhesive dispenser ready for operation | Complete | 0 | 02Jul12 02Jul12 | 16Dec11 16Dec11 | None | | None | | 2.9.4.1.15[FS]; 2.9.4.1.7.5[FS] | 2.9.4.3.2[FS] |
| 2.9.4.1.7.7 | Assemble adhesive dispenser at Ash River | Complete | 30d | 14Oct11 17Jan12 | 13Oct11 23Nov11 | None | | None | | 2.9.4.1.7.1[FS] | 2.9.4.1.7.4[FS] |
| 2.9.4.1.8 | Block Pivoter | Complete | 359d | 01Feb11 02Jul12 | 13Apr11 28Sep12 | None | | None | | | |
| 2.9.4.1.8.1 | Ship block pivoter parts (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 13Apr11 13Apr11 | None | | None | | 2.9.1.4.5[FS]; 2.9.1.4.6[FS]; 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.1.8.2[FS] |
| 2.9.4.1.8.2 | Assemble block pivoter (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 20Apr11 20Apr11 | None | | None | | 2.9.4.1.1[FS]; 2.9.4.1.8.1[FS] | 2.9.4.1.8.3[FS]; 2.9.4.1.8.5[FS] |
| 2.9.4.1.8.3 | Install block pivoter ventilation ductwork (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 21Apr11 21Apr11 | None | | None | | 2.9.4.1.8.2[FS] | 2.9.4.1.8.4[FS]; 2.9.4.1.8.5[FS] |
| 2.9.4.1.8.4 | Install block pivoter work platforms (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 22Apr11 22Apr11 | None | | None | | 2.9.4.1.8.3[FS] | 2.9.4.1.8.5[FS] |
| 2.9.4.1.8.5 | Test and document block pivoter procedures (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 05Jul11 05Jul11 | None | | None | | 2.9.4.1.8.4[FS]; 2.9.4.1.8.3[FS]; 2.9.4.1.8.2[FS]; 2.1.5.3.6.6[FS]; 2.1.5.3.3.3[FS] | 2.9.4.1.8.6[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.1.8.6 | Operations Review: block pivoter at Ash River (OBSOLETE) | Complete | 1d | 01Feb11 01Feb11 | 06Jul11 06Jul11 | None | | None | | 2.9.4.1.8.5[FS] | |
| 2.9.4.1.8.7 | Block pivoter ready for operation | Complete | 0 | 02Jul12 02Jul12 | 30Apr12 30Apr12 | None | | None | | 2.9.1.4.14[FS]; 2.1.7.3.16[FS] | 2.9.4.3.2[FS] |
| 2.9.4.1.8.8 | Block pivoter testing and safety | Complete | 84d | 01Jun12 02Jul12 | 01Jun12 28Sep12 | None | | None | | 2.9.1.4.12[FF] | 2.9.4.3.4[FF] |
| 2.9.4.1.9 | Alignment and Survey Setup | Complete | 231d | 01Aug11 29Jun12 | 29Apr11 31Oct11 | None | | None | | | |
| 2.9.4.1.9.1 | Survey detector hall, establish local procedures | Complete | 10d | 01Aug11 31Aug11 | 29Apr11 12May11 | None | | None | | 2.1.2.5.22[FS]; 2.9.1.5.4[FS]; 2.1.2.3.3[FS] | 2.9.4.1.9.2[FS] |
| 2.9.4.1.9.2 | Install needed monuments and other equipment | Complete | 5d | 01Aug11 14Oct11 | 13May11 19May11 | None | | None | | 2.9.4.1.9.1[FS] | 2.9.4.1.9.4[FS] |
| 2.9.4.1.9.3 | Document survey procedures | Complete | 4d | 01Jun12 29Jun12 | 20May11 26May11 | None | | None | | 2.9.1.5.3[FF]; 2.9.4.1.9.5[FS] | 2.9.4.1.9.4[FS]; 2.9.4.3.2[FS] |
| 2.9.4.1.9.5 | Install survey monuments (supplemental) | Complete | 21d | 03Oct11 31Oct11 | 03Oct11 31Oct11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.1.9.4[FS]; 2.9.4.1.9.3[FS] |
| 2.9.4.1.10 | Assembly Crew Support Facilities | In Progress | 501d | 03Oct11 30Sep13 | 04Feb11 28Feb14 | None | | None | | | |
| 2.9.4.1.10.1 | Sanitary Facilities | In Progress | 501d | 03Oct11 30Sep13 | 04Feb11 28Feb14 | None | | None | | | |
| 2.9.4.1.10.1.1 | Order sanitary facilities (obsolete) | Complete | 10d | 03Oct11 03Oct11 | 04Feb11 17Feb11 | None | | None | | 2.1.2.5.22[FS-60d]; 2.1.2.3.3[FS-60d] | 2.9.4.1.10.1.2[FS] |
| 2.9.4.1.10.1.2 | Install sanitary facilities (obsolete) | Complete | 3d | 03Oct11 03Oct11 | 29Apr11 03May11 | None | | None | | 2.1.2.5.22[FS]; 2.9.4.1.10.1.1[FS]; 2.1.2.3.3[FS] | 2.9.4.1.10.1.5[FS]; 2.9.4.1.10.1.3[FS] |
| 2.9.4.1.10.1.3 | Use sanitary facilities | Complete | 587d | 03Oct11 30Jan13 | 04May11 25Feb14 | None | | None | | 2.9.4.1.10.1.2[FS] | 2.9.4.1.10.1.4[FS] |
| 2.9.4.1.10.1.4 | Remove sanitary facilities | Complete | 3d | 31Jan13 31Jan13 | 26Feb14 28Feb14 | None | | None | | 2.9.4.1.10.1.3[FS] | |
| 2.9.4.1.10.1.5 | Septic service - FY13 | In Progress | 169d | 01Feb13 30Sep13 | 01Feb13 30Sep13 | None | | None | | 2.9.4.1.10.1.2[FS] | |
| 2.9.4.1.11 | Forklift Rental | In Progress | 565d | 01Jul11 30Sep13 | 01Jul11 30Sep13 | None | | None | | | |
| 2.9.4.1.11.1 | Forklift rental-FY11 | Complete | 64d | 01Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.1.11.2[FS] |
| 2.9.4.1.11.2 | Forklift rental-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.4.1.11.1[FS] | 2.9.4.1.11.4[FS]; 2.9.4.1.11.3[FS] |
| 2.9.4.1.11.3 | Forklift rental-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.4.1.11.2[FS] | |
| 2.9.4.1.11.4 | Forklift rental-FY13 - supplemental | In Progress | 169d | 01Feb13 30Sep13 | 01Feb13 30Sep13 | None | | None | | 2.9.4.1.11.2[FS] | |
| 2.9.4.1.12 | Purchase cameras to monitor Far Detector assembly and outfitting | Complete | 10d | 01Sep11 30Sep11 | 07Sep11 20Sep11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.1.13[FS+8d] |
| 2.9.4.1.13 | Install cameras to monitor Far Detector assembly and outfitting | Complete | 10d | 17Oct11 21Oct11 | 03Oct11 14Oct11 | None | | None | | 2.9.4.1.12[FS+8d] | 2.9.4.3.2[FS] |
| 2.9.4.1.14 | Procure and setup material handling equipment (supplemental) | Complete | 60d | 03Oct11 30Mar12 | 03Oct11 29Dec11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.9.4.1.15 | Electrical and ventilation modifications | Complete | 60d | 03Oct11 30Mar12 | 03Oct11 29Dec11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.1.7.6[FS] |
| 2.9.4.1.16 | Hazardous Material Trailer Rental | In Progress | 541d | 01Nov11 30Dec13 | 01Nov11 30Dec13 | None | | None | | | |
| 2.9.4.1.16.1 | Setup trailer | Complete | 20d | 01Nov11 30Nov11 | 01Nov11 30Nov11 | None | | None | | 2.1.2.5.23[FS] | 2.9.4.1.16.2[SS] |
| 2.9.4.1.16.2 | Monthly Rental - FY12 | Complete | 229d | 01Nov11 28Sep12 | 01Nov11 28Sep12 | None | | None | | 2.9.4.1.16.1[SS] | 2.9.4.1.16.3[FS] |
| 2.9.4.1.16.3 | Monthly Rental - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.4.1.16.2[FS] | 2.9.4.1.16.4[FS] |
| 2.9.4.1.16.4 | Monthly Rental - FY14 | Planned | 61d | 01Oct13 30Dec13 | 01Oct13 30Dec13 | None | | None | | 2.9.4.1.16.3[FS] | 2.10.9.1[FS] |
| 2.9.4.1.17 | Material Handling - Supplemental | In Progress | 541d | 01Nov11 30Dec13 | 01Nov11 30Dec13 | None | | None | | | |
| 2.9.4.1.17.1 | Drum lifter | Complete | 19d | 01Mar12 30Mar12 | 01Dec11 29Dec11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.2.2.14[FS] |
| 2.9.4.1.17.2 | Scissor lift/Small Forklift - FY12 | Complete | 229d | 01Nov11 28Sep12 | 01Nov11 28Sep12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.1.17.6[FS]; 2.9.4.1.17.3[FS] |
| 2.9.4.1.17.3 | Scissor lift/Small Forklift - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.4.1.17.2[FS] | 2.9.4.1.17.4[FS] |
| 2.9.4.1.17.4 | Scissor lift/Small Forklift - FY14 | Planned | 61d | 01Oct13 30Dec13 | 01Oct13 30Dec13 | None | | None | | 2.9.4.1.17.3[FS] | 2.10.9.1[FS] |
| 2.9.4.1.17.5 | Shelving | Complete | 41d | 02Apr12 30Apr12 | 03Jan12 29Feb12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.4[FS] |
| 2.9.4.1.17.6 | Scissor lift/Small Forklift rental-FY13 - supplemental | In Progress | 169d | 01Feb13 30Sep13 | 01Feb13 30Sep13 | None | | None | | 2.9.4.1.17.2[FS] | |
| 2.9.4.1.18 | Building modifications | Complete | 82d | 02Apr12 30Apr12 | 01Dec11 30Mar12 | None | | None | | 2.1.2.5.22[FS] | |
| 2.9.4.1.19 | Install camera system - additional | Complete | 20d | 01Nov11 30Nov11 | 01Nov11 30Nov11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.9.4.1.20 | APD Room Electrical, Ventilation, and Painting | Complete | 43d | 01Feb12 30Apr12 | 01Feb12 30Mar12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.5.0.1[SS+8d]; 2.9.4.5.0.2[FS]; 2.9.4.6.35[FS] |
| 2.9.4.1.21 | Unistrut and cable trays | Complete | 43d | 02Apr12 30Apr12 | 01Feb12 30Mar12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.5.110[FS]; 2.9.4.5.1[FS] |
| 2.9.4.1.22 | Assembly infrastructure preparations - supplemental | Complete | 84d | 01Jun12 28Sep12 | 01Jun12 28Sep12 | None | | None | | 2.1.2.5.22[FS] | |
| 2.9.4.2 | Block Assembly Components | In Progress | 675d | 01Jun11 10Feb14 | 01Jun11 15Jan14 | None | | None | | | |
| 2.9.4.2.1 | Block Pallets | In Progress | 594d | 01Aug11 21Jan14 | 01Aug11 11Nov13 | None | | None | | | |
| 2.9.4.2.1.1 | Establish pallet contract | Complete | 10d | 01May12 04May12 | 01Nov11 25Jan12 | None | | None | | 2.1.2.5.22[FS]; 2.9.1.4.4[FS]; 2.1.2.3.3[FS] | 2.9.4.2.1.10[FS+20d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.2.1.2 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 01Aug11 01Aug11 | 01Aug11 01Aug11 | None | | None | | | 2.9.4.2.1.3[FS] |
| 2.9.4.2.1.3 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 02Aug11 02Aug11 | 02Aug11 02Aug11 | None | | None | | 2.9.4.2.1.2[FS] | 2.9.4.2.1.4[FS] |
| 2.9.4.2.1.4 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 03Aug11 03Aug11 | 03Aug11 03Aug11 | None | | None | | 2.9.4.2.1.3[FS] | 2.9.4.2.1.5[FS] |
| 2.9.4.2.1.5 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 04Aug11 04Aug11 | 04Aug11 04Aug11 | None | | None | | 2.9.4.2.1.4[FS] | 2.9.4.2.1.6[FS] |
| 2.9.4.2.1.6 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 05Aug11 05Aug11 | 05Aug11 05Aug11 | None | | None | | 2.9.4.2.1.5[FS] | 2.9.4.2.1.7[FS] |
| 2.9.4.2.1.7 | Receive 5 block pallets (OBSOLETE) | Complete | 1d | 08Aug11 08Aug11 | 08Aug11 08Aug11 | None | | None | | 2.9.4.2.1.6[FS] | 2.9.4.2.1.9[FS] |
| 2.9.4.2.1.10 | Receive pallets for blocks 3 and 4 | Complete | 2d | 30Jul12 31Jul12 | 18Jun12 19Jun12 | None | | None | | 2.9.4.2.1.1[FS+20d]; 2.9.4.3.3[FS] | 2.9.4.2.1.11[FF+1d]; 2.9.4.2.1.11[SS+1d]; 2.9.4.2.1.12[FS] |
| 2.9.4.2.1.11 | Perform QA tests on pallets for blocks 3 and 4 | Complete | 1d | 02Nov12 02Nov12 | 19Jun12 20Jun12 | None | | None | | 2.9.4.2.1.10[FF+1d]; 2.9.4.2.1.10[SS+1d] | 2.9.4.3.6[FS]; 2.9.4.3.5[SS+1d] |
| 2.9.4.2.1.12 | Receive pallets for blocks 5 and 6 | Complete | 2d | 30Aug12 31Aug12 | 05Sep12 06Sep12 | None | | None | | 2.9.4.2.1.10[FS]; 2.9.4.3.5[FS] | 2.9.4.2.1.38[FS]; 2.9.4.2.1.13[SS+1d]; 2.9.4.2.1.14[FS]; 2.9.4.2.1.13[FF+1d] |
| 2.9.4.2.1.13 | Perform QA tests on pallets for blocks 5 and 6 | Complete | 2d | 05Nov12 06Nov12 | 06Sep12 07Sep12 | None | | None | | 2.9.4.2.1.12[SS+1d]; 2.9.4.2.1.12[FF+1d] | 2.9.4.3.7[SS+1d]; 2.9.4.3.9[FS] |
| 2.9.4.2.1.14 | Receive pallets for blocks 7 and 8 | Complete | 2d | 30Aug12 31Aug12 | 05Oct12 08Oct12 | None | | None | | 2.9.4.2.1.12[FS]; 2.9.4.3.7[FS] | 2.9.4.2.1.15[SS+1d]; 2.9.4.2.1.15[FF+1d]; 2.9.4.2.1.16[FS] |
| 2.9.4.2.1.15 | Perform QA tests on pallets for blocks 7 and 8 | Complete | 2d | 02Jan13 02Jan13 | 08Oct12 09Oct12 | None | | None | | 2.9.4.2.1.14[SS+1d]; 2.9.4.2.1.14[FF+1d] | 2.9.4.3.11[FS]; 2.9.4.3.10[SS+1d] |
| 2.9.4.2.1.16 | Receive pallets for blocks 9 and 10 | Complete | 2d | 13Sep12 14Sep12 | 06Nov12 07Nov12 | None | | None | | 2.9.4.3.10[FS]; 2.9.4.2.1.14[FS] | 2.9.4.2.1.17[SS+1d]; 2.9.4.2.1.18[FS]; 2.9.4.2.1.17[FF+1d] |
| 2.9.4.2.1.17 | Perform QA tests on pallets for blocks 9 and 10 | Complete | 2d | 26Feb13 28Feb13 | 07Nov12 08Nov12 | None | | None | | 2.9.4.2.1.16[SS+1d]; 2.9.4.2.1.16[FF+1d] | 2.9.4.3.13[FS]; 2.9.4.3.12[SS+1d] |
| 2.9.4.2.1.18 | Receive pallets for blocks 11 and 12 | Complete | 2d | 01Nov12 02Nov12 | 10Dec12 11Dec12 | None | | None | | 2.9.4.2.1.16[FS]; 2.9.4.3.12[FS] | 2.9.4.2.1.20[FS]; 2.9.4.2.1.19[SS+1d]; 2.9.4.2.1.19[FF+1d] |
| 2.9.4.2.1.19 | Perform QA tests on pallets for blocks 11 and 12 | Complete | 2d | 01Apr13 01Apr13 | 11Dec12 12Dec12 | None | | None | | 2.9.4.2.1.18[SS+1d]; 2.9.4.2.1.18[FF+1d] | 2.9.4.3.16[FS]; 2.9.4.3.15[SS+1d] |
| 2.9.4.2.1.20 | Receive pallets for blocks 13 and 14 | Complete | 2d | 08Nov12 09Nov12 | 15Jan13 16Jan13 | None | | None | | 2.9.4.2.1.18[FS]; 2.9.4.3.15[FS] | 2.9.4.2.1.21[FF+1d]; 2.9.4.2.1.21[SS+1d]; 2.9.4.2.1.22[FS] |
| 2.9.4.2.1.21 | Perform QA tests on pallets for blocks 13 and 14 | Complete | 2d | 01May13 01May13 | 16Jan13 17Jan13 | None | | None | | 2.9.4.2.1.20[FF+1d]; 2.9.4.2.1.20[SS+1d] | 2.9.4.3.17[SS+1d]; 2.9.4.3.18[FS] |
| 2.9.4.2.1.22 | Receive pallets for blocks 15 and 16 | Complete | 2d | 15Nov12 16Nov12 | 21Feb13 22Feb13 | None | | None | | 2.9.4.3.17[FS]; 2.9.4.2.1.20[FS] | 2.9.4.2.1.23[FF+1d]; 2.9.4.2.1.23[SS+1d]; 2.9.4.2.1.24[FS] |
| 2.9.4.2.1.23 | Perform QA tests on pallets for blocks 15 and 16 | Complete | 2d | 01May13 01May13 | 22Feb13 25Feb13 | None | | None | | 2.9.4.2.1.22[FF+1d]; 2.9.4.2.1.22[SS+1d] | 2.9.4.3.19[SS+1d]; 2.9.4.3.21[FS] |
| 2.9.4.2.1.24 | Receive pallets for blocks 17 and 18 | Complete | 2d | 29Nov12 30Nov12 | 29Mar13 01Apr13 | None | | None | | 2.9.4.3.19[FS]; 2.9.4.2.1.22[FS] | 2.9.4.2.1.25[FF+1d]; 2.9.4.2.1.25[SS+1d]; 2.9.4.2.1.26[FS] |
| 2.9.4.2.1.25 | Perform QA tests on pallets for blocks 17 and 18 | Complete | 2d | 03Jun13 28Jun13 | 01Apr13 02Apr13 | None | | None | | 2.9.4.2.1.24[FF+1d]; 2.9.4.2.1.24[SS+1d] | 2.9.4.3.22[SS+1d]; 2.9.4.3.23[FS] |
| 2.9.4.2.1.26 | Receive pallets for blocks 19 and 20 | Complete | 2d | 20Dec12 21Dec12 | 06May13 07May13 | None | | None | | 2.9.4.3.22[FS]; 2.9.4.2.1.24[FS] | 2.9.4.2.1.28[FS]; 2.9.4.2.1.27[SS+1d]; 2.9.4.2.1.27[FF+1d] |
| 2.9.4.2.1.27 | Perform QA tests on pallets for blocks 19 and 20 | Complete | 2d | 03Jun13 28Jun13 | 07May13 08May13 | None | | None | | 2.9.4.2.1.26[SS+1d]; 2.9.4.2.1.26[FF+1d] | 2.9.4.3.25[FS]; 2.9.4.3.24[SS+1d] |
| 2.9.4.2.1.28 | Receive pallets for blocks 21 and 22 | Complete | 2d | 02Jan13 03Jan13 | 12Jun13 13Jun13 | None | | None | | 2.9.4.3.24[FS]; 2.9.4.2.1.26[FS] | 2.9.4.2.1.29[FF+1d]; 2.9.4.2.1.30[FS]; 2.9.4.2.1.29[SS+1d] |
| 2.9.4.2.1.29 | Perform QA tests on pallets for blocks 21 and 22 | Planned | 2d | 16Aug13 19Aug13 | 13Jun13 14Jun13 | None | | None | | 2.9.4.2.1.28[FF+1d]; 2.9.4.2.1.28[SS+1d] | 2.9.4.3.27[SS+1d]; 2.9.4.3.28[FS] |
| 2.9.4.2.1.30 | Receive pallets for blocks 23 and 24 | Complete | 2d | 23Jan13 24Jan13 | 19Jul13 22Jul13 | None | | None | | 2.9.4.2.1.28[FS]; 2.9.4.3.27[FS] | 2.9.4.2.1.31[FF+1d]; 2.9.4.2.1.31[SS+1d]; 2.9.4.2.1.32[FS] |
| 2.9.4.2.1.31 | Perform QA tests on pallets for blocks 23 and 24 | Planned | 2d | 24Sep13 25Sep13 | 22Jul13 23Jul13 | None | | None | | 2.9.4.2.1.30[FF+1d]; 2.9.4.2.1.30[SS+1d] | 2.9.4.3.29[SS+1d]; 2.9.4.3.30[FS] |
| 2.9.4.2.1.32 | Receive pallets for blocks 25 and 26 | Complete | 2d | 12Feb13 13Feb13 | 26Aug13 27Aug13 | None | | None | | 2.9.4.2.1.30[FS]; 2.9.4.3.29[FS] | 2.9.4.2.1.33[FF+1d]; 2.9.4.2.1.33[SS+1d]; 2.9.4.2.1.34[FS] |
| 2.9.4.2.1.33 | Perform QA tests on pallets for blocks 25 and 26 | Planned | 2d | 30Oct13 31Oct13 | 27Aug13 28Aug13 | None | | None | | 2.9.4.2.1.32[FF+1d]; 2.9.4.2.1.32[SS+1d] | 2.9.4.3.31[SS+1d]; 2.9.4.3.33[FS] |
| 2.9.4.2.1.34 | Receive pallets for blocks 27 and 28 | Complete | 2d | 01Mar13 01Mar13 | 02Oct13 03Oct13 | None | | None | | 2.9.4.3.31[FS]; 2.9.4.2.1.32[FS]; 2.9.4.2.1.38[FF] | 2.9.4.2.1.36[FS]; 2.9.4.2.1.35[SS+1d]; 2.9.4.2.1.35[FF+1d] |
| 2.9.4.2.1.35 | Perform QA tests on pallets for blocks 27 and 28 | Planned | 2d | 09Dec13 10Dec13 | 03Oct13 04Oct13 | None | | None | | 2.9.4.2.1.34[SS+1d]; 2.9.4.2.1.34[FF+1d] | 2.9.4.3.35[FS]; 2.9.4.3.34[SS+1d] |
| 2.9.4.2.1.36 | Receive pallets for blocks 29 and 30 (OBSOLETE) | Complete | 1d | 01Mar13 01Mar13 | 07Nov13 08Nov13 | None | | None | | 2.9.4.2.1.34[FS]; 2.9.4.3.34[FS] | 2.9.4.2.1.37[FF+1d]; 2.9.4.2.1.37[SS+1d] |
| 2.9.4.2.1.37 | Perform QA tests on pallets for blocks 29 and 30 (OBSOLETE) | Complete | 1d | 01Mar13 01Mar13 | 08Nov13 11Nov13 | None | | None | | 2.9.4.2.1.36[FF+1d]; 2.9.4.2.1.36[SS+1d] | 2.9.4.3.36[SS+1d]; 2.9.4.3.37[FS] |
| 2.9.4.2.1.38 | Procure pallet gutters | Complete | 90d | 02Jan13 28Jun13 | 02Jan13 08May13 | None | | None | | 2.9.4.2.1.12[FS] | 2.9.4.2.1.34[FF] |
| 2.9.4.2.2 | Adhesive | In Progress | 654d | 01Jun11 09Jan14 | 01Jun11 15Jan14 | None | | None | | | |
| 2.9.4.2.2.1 | Establish adhesive contract | Complete | 30d | 01Jun11 08Jul11 | 01Jun11 13Jul11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.2.2.10[FS]; 2.9.4.2.2.2[FS] |
| 2.9.4.2.2.2 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 11Jul11 11Jul11 | 11Jul11 11Jul11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS]; 2.9.4.2.2.1[FS] | 2.9.4.2.2.3[FS] |
| 2.9.4.2.2.3 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 12Jul11 12Jul11 | 12Jul11 12Jul11 | None | | None | | 2.9.4.2.2.2[FS] | 2.9.4.2.2.4[FS] |
| 2.9.4.2.2.4 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 13Jul11 13Jul11 | 13Jul11 13Jul11 | None | | None | | 2.9.4.2.2.3[FS] | 2.9.4.2.2.5[FS] |
| 2.9.4.2.2.5 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 14Jul11 14Jul11 | 14Jul11 14Jul11 | None | | None | | 2.9.4.2.2.4[FS] | 2.9.4.2.2.6[FS] |
| 2.9.4.2.2.6 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 15Jul11 15Jul11 | 15Jul11 15Jul11 | None | | None | | 2.9.4.2.2.5[FS] | 2.9.4.2.2.7[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.2.2.7 | Receive 5 shipments - adhesive (OBSOLETE) | Complete | 1d | 18Jul11 18Jul11 | 18Jul11 18Jul11 | None | | None | | 2.9.4.2.2.6[FS] | 2.9.4.2.2.9[FS] |
| 2.9.4.2.2.10 | First 20 kits of adhesive (40 barrels) ordered | Complete | 0 | 15Sep11 15Sep11 | 03Oct11 03Oct11 | None | | None | | 2.9.4.2.2.1[FS] | 2.9.4.2.2.11[FS+55d]; 2.9.4.2.2.13[FS+26d] |
| 2.9.4.2.2.11 | Receive 20 kits (40 barrels) - shipment 1 | Complete | 5d | 15Dec11 31Jul12 | 21Dec11 29Dec11 | None | | None | | 2.9.4.2.2.10[FS+55d] | 2.9.4.2.2.12[FS]; 2.9.4.2.2.14[FS]; 2.9.4.2.2.82[SS] |
| 2.9.4.2.2.12 | QA adhesive shipment 1 | Complete | 5d | 25Jul12 31Jul12 | 03Jan12 09Jan12 | None | | None | | 2.9.4.2.2.11[FS] | 2.9.4.2.5.10[FS]; 2.9.4.3.2[FS]; 2.9.4.2.2.15[FS]; 2.9.4.3.3[FS] |
| 2.9.4.2.2.13 | Adhesive shipment 2 ordered | Complete | 0 | 31Jul12 31Jul12 | 08Nov11 08Nov11 | None | | None | | 2.9.4.2.2.10[FS+26d] | 2.9.4.2.2.16[FS+15d]; 2.9.4.2.2.14[FS+45d] |
| 2.9.4.2.2.14 | Receive adhesive shipment 2 | Complete | 5d | 31Jul12 25Sep12 | 04Jun12 08Jun12 | None | | None | | 2.9.4.2.2.13[FS+45d]; 2.9.4.2.2.11[FS]; 2.9.4.1.17.1[FS] | 2.9.4.2.2.15[FS]; 2.9.4.2.2.17[FS] |
| 2.9.4.2.2.15 | QA adhesive shipment 2 | Complete | 5d | 04Sep12 07Sep12 | 16Aug12 22Aug12 | None | | None | | 2.9.4.2.2.14[FS]; 2.9.4.2.2.12[FS] | 2.9.4.2.2.18[FS]; 2.9.4.3.4[FS] |
| 2.9.4.2.2.16 | Adhesive shipment 3 ordered | Complete | 0 | 04Sep12 04Sep12 | 16Dec11 16Dec11 | None | | None | | 2.9.4.2.2.13[FS+15d] | 2.9.4.2.2.17[FS+20d]; 2.9.4.2.2.19[FS+15d] |
| 2.9.4.2.2.17 | Receive adhesive shipment 3 | Complete | 5d | 25Sep12 18Oct12 | 17Jul12 23Jul12 | None | | None | | 2.9.4.2.2.16[FS+20d]; 2.9.4.2.2.14[FS] | 2.9.4.2.2.18[FS]; 2.9.4.2.2.20[FS] |
| 2.9.4.2.2.18 | QA adhesive shipment 3 | Complete | 5d | 17Sep12 21Sep12 | 28Sep12 04Oct12 | None | | None | | 2.9.4.2.2.17[FS]; 2.9.4.2.2.15[FS] | 2.9.4.2.2.21[FS]; 2.9.4.3.5[FS] |
| 2.9.4.2.2.19 | Adhesive shipment 4 ordered | Complete | 0 | 01Oct12 01Oct12 | 30Jan12 30Jan12 | None | | None | | 2.9.4.2.2.16[FS+15d] | 2.9.4.2.2.20[FS+25d]; 2.9.4.2.2.22[FS+11d] |
| 2.9.4.2.2.20 | Receive adhesive shipment 4 | Complete | 5d | 18Oct12 06Dec12 | 21Aug12 27Aug12 | None | | None | | 2.9.4.2.2.19[FS+25d]; 2.9.4.2.2.17[FS] | 2.9.4.2.2.21[FS]; 2.9.4.2.2.23[FS] |
| 2.9.4.2.2.21 | QA adhesive shipment 4 | Complete | 1d | 06Dec12 06Dec12 | 02Nov12 08Nov12 | None | | None | | 2.9.4.2.2.20[FS]; 2.9.4.2.2.18[FS] | 2.9.4.3.9[FS]; 2.9.4.2.2.24[FS] |
| 2.9.4.2.2.22 | Adhesive shipment 5 ordered | Complete | 0 | 15Nov12 15Nov12 | 08Jun12 08Jun12 | None | | None | | 2.9.4.2.2.19[FS+11d] | 2.9.4.2.2.23[FS+3d]; 2.9.4.2.2.25[FS] |
| 2.9.4.2.2.23 | Receive adhesive shipment 5 | Complete | 5d | 06Dec12 16Jan13 | 06Sep12 12Sep12 | None | | None | | 2.9.4.2.2.22[FS+3d]; 2.9.4.2.2.20[FS] | 2.9.4.2.2.24[FS]; 2.9.4.2.2.26[FS] |
| 2.9.4.2.2.24 | QA adhesive shipment 5 | Complete | 1d | 25Feb13 26Feb13 | 19Nov12 27Nov12 | None | | None | | 2.9.4.2.2.21[FS]; 2.9.4.2.2.23[FS] | 2.9.4.2.2.27[FS]; 2.9.4.3.9[FS] |
| 2.9.4.2.2.25 | Adhesive shipment 6 ordered | Complete | 0 | 02Jan13 02Jan13 | 25Jun12 25Jun12 | None | | None | | 2.9.4.2.2.22[FS] | 2.9.4.2.2.26[FS+5d]; 2.9.4.2.2.28[FS] |
| 2.9.4.2.2.26 | Receive adhesive shipment 6 | Complete | 5d | 16Jan13 05Feb13 | 21Sep12 27Sep12 | None | | None | | 2.9.4.2.2.25[FS+5d]; 2.9.4.2.2.23[FS] | 2.9.4.2.2.27[FS]; 2.9.4.2.2.29[FS] |
| 2.9.4.2.2.27 | QA adhesive shipment 6 | Complete | 5d | 27Feb13 28Feb13 | 06Dec12 12Dec12 | None | | None | | 2.9.4.2.2.24[FS]; 2.9.4.2.2.26[FS] | 2.9.4.2.2.30[FS]; 2.9.4.3.11[FS] |
| 2.9.4.2.2.28 | Adhesive shipment 7 ordered | Complete | 0 | 02Jan13 02Jan13 | 11Jul12 11Jul12 | None | | None | | 2.9.4.2.2.25[FS] | 2.9.4.2.2.31[FS+15d]; 2.9.4.2.2.29[FS+13d] |
| 2.9.4.2.2.29 | Receive adhesive shipment 7 | Complete | 5d | 05Feb13 26Mar13 | 08Oct12 12Oct12 | None | | None | | 2.9.4.2.2.26[FS]; 2.9.4.2.2.28[FS+13d] | 2.9.4.2.2.32[FS]; 2.9.4.2.2.30[FS] |
| 2.9.4.2.2.30 | QA adhesive shipment 7 | Complete | 5d | 26Mar13 26Mar13 | 21Dec12 02Jan13 | None | | None | | 2.9.4.2.2.27[FS]; 2.9.4.2.2.29[FS] | 2.9.4.2.2.33[FS]; 2.9.4.3.12[FF] |
| 2.9.4.2.2.31 | Adhesive shipment 8 ordered | Complete | 0 | 05Feb13 05Feb13 | 10Aug12 10Aug12 | None | | None | | 2.9.4.2.2.28[FS+15d] | 2.9.4.2.2.32[FS+25d]; 2.9.4.2.2.34[FS+15d] |
| 2.9.4.2.2.32 | Receive adhesive shipment 8 | Complete | 5d | 26Mar13 23Apr13 | 26Mar13 01Apr13 | None | | None | | 2.9.4.2.2.29[FS]; 2.9.4.2.2.31[FS+25d] | 2.9.4.2.2.35[FS]; 2.9.4.2.2.33[FS] |
| 2.9.4.2.2.33 | QA adhesive shipment 8 | Planned | 5d | 01Jul13 08Jul13 | 02Apr13 08Apr13 | None | | None | | 2.9.4.2.2.30[FS]; 2.9.4.2.2.32[FS] | 2.9.4.2.2.36[FS]; 2.9.4.3.35[FF] |
| 2.9.4.2.2.34 | Adhesive shipment 9 ordered | Complete | 0 | 15Mar13 15Mar13 | 27Aug12 27Aug12 | None | | None | | 2.9.4.2.2.31[FS+15d] | 2.9.4.2.2.37[FS+20d]; 2.9.4.2.2.35[FS+25d] |
| 2.9.4.2.2.35 | Receive adhesive shipment 9 | Complete | 5d | 23Apr13 13May13 | 29Apr13 03May13 | None | | None | | 2.9.4.2.2.34[FS+25d]; 2.9.4.2.2.32[FS] | 2.9.4.2.2.38[FS]; 2.9.4.2.2.36[FS] |
| 2.9.4.2.2.36 | QA adhesive shipment 9 | Planned | 5d | 09Jul13 15Jul13 | 06May13 10May13 | None | | None | | 2.9.4.2.2.33[FS]; 2.9.4.2.2.35[FS] | 2.9.4.2.2.39[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.37 | Adhesive shipment 10 ordered | Complete | 0 | 15Mar13 15Mar13 | 12Sep12 12Sep12 | None | | None | | 2.9.4.2.2.34[FS+20d] | 2.9.4.2.2.40[FS+20d]; 2.9.4.2.2.38[FS+25d] |
| 2.9.4.2.2.38 | Receive adhesive shipment 10 | Complete | 5d | 13May13 05Jun13 | 17May13 23May13 | None | | None | | 2.9.4.2.2.35[FS]; 2.9.4.2.2.37[FS+25d] | 2.9.4.2.2.39[FS]; 2.9.4.2.2.41[FS] |
| 2.9.4.2.2.39 | QA adhesive shipment 10 | Planned | 5d | 16Jul13 22Jul13 | 24May13 31May13 | None | | None | | 2.9.4.2.2.36[FS]; 2.9.4.2.2.38[FS] | 2.9.4.2.2.42[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.40 | Adhesive shipment 11 ordered | Complete | 0 | 15Apr13 15Apr13 | 18Oct12 18Oct12 | None | | None | | 2.9.4.2.2.37[FS+20d] | 2.9.4.2.2.43[FS+20d]; 2.9.4.2.2.41[FS+25d] |
| 2.9.4.2.2.41 | Receive adhesive shipment 11 | In Progress | 5d | 05Jun13 22Jul13 | 24May13 31May13 | None | | None | | 2.9.4.2.2.40[FS+25d]; 2.9.4.2.2.38[FS] | 2.9.4.2.2.42[FS]; 2.9.4.2.2.44[FS] |
| 2.9.4.2.2.42 | QA adhesive shipment 11 | Planned | 5d | 23Jul13 29Jul13 | 03Jun13 07Jun13 | None | | None | | 2.9.4.2.2.39[FS]; 2.9.4.2.2.41[FS] | 2.9.4.2.2.45[FS]; 2.9.4.3.35[SS] |
| 2.9.4.2.2.43 | Adhesive shipment 12 ordered | Complete | 0 | 15May13 15May13 | 06Nov12 06Nov12 | None | | None | | 2.9.4.2.2.40[FS+20d] | 2.9.4.2.2.44[FS+25d]; 2.9.4.2.2.46[FS+20d] |
| 2.9.4.2.2.44 | Receive adhesive shipment 12 | Planned | 5d | 23Jul13 29Jul13 | 03Jun13 07Jun13 | None | | None | | 2.9.4.2.2.43[FS+25d]; 2.9.4.2.2.41[FS] | 2.9.4.2.2.45[FS]; 2.9.4.2.2.47[FS] |
| 2.9.4.2.2.45 | QA adhesive shipment 12 | Planned | 5d | 30Jul13 05Aug13 | 10Jun13 14Jun13 | None | | None | | 2.9.4.2.2.42[FS]; 2.9.4.2.2.44[FS] | 2.9.4.2.2.48[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.46 | Adhesive shipment 13 ordered | Complete | 0 | 14Jun13 14Jun13 | 27Nov12 27Nov12 | None | | None | | 2.9.4.2.2.43[FS+20d] | 2.9.4.2.2.47[FS+25d]; 2.9.4.2.2.49[FS+20d] |
| 2.9.4.2.2.47 | Receive adhesive shipment 13 | Planned | 5d | 30Jul13 05Aug13 | 10Jun13 14Jun13 | None | | None | | 2.9.4.2.2.46[FS+25d]; 2.9.4.2.2.44[FS] | 2.9.4.2.2.50[FS]; 2.9.4.2.2.48[FS] |
| 2.9.4.2.2.48 | QA adhesive shipment 13 | Planned | 5d | 06Aug13 12Aug13 | 17Jun13 21Jun13 | None | | None | | 2.9.4.2.2.45[FS]; 2.9.4.2.2.47[FS] | 2.9.4.2.2.51[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.49 | Adhesive shipment 14 ordered | Complete | 0 | 28Jun13 28Jun13 | 08Jan13 08Jan13 | None | | None | | 2.9.4.2.2.46[FS+20d] | 2.9.4.2.2.52[FS+20d]; 2.9.4.2.2.50[FS+25d] |
| 2.9.4.2.2.50 | Receive adhesive shipment 14 | Planned | 5d | 06Aug13 12Aug13 | 17Jun13 21Jun13 | None | | None | | 2.9.4.2.2.47[FS]; 2.9.4.2.2.49[FS+25d] | 2.9.4.2.2.53[FS]; 2.9.4.2.2.51[FS] |
| 2.9.4.2.2.51 | QA adhesive shipment 14 | Planned | 5d | 13Aug13 19Aug13 | 24Jun13 28Jun13 | None | | None | | 2.9.4.2.2.48[FS]; 2.9.4.2.2.50[FS] | 2.9.4.2.2.54[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.52 | Adhesive shipment 15 ordered | Planned | 0 | 30Jul13 30Jul13 | 28Jan13 28Jan13 | None | | None | | 2.9.4.2.2.49[FS+20d] | 2.9.4.2.2.53[FS+25d]; 2.9.4.2.2.55[FS+20d] |
| 2.9.4.2.2.53 | Receive adhesive shipment 15 | Planned | 5d | 04Sep13 10Sep13 | 24Jun13 28Jun13 | None | | None | | 2.9.4.2.2.50[FS]; 2.9.4.2.2.52[FS+25d] | 2.9.4.2.2.56[FS]; 2.9.4.2.2.54[FS] |
| 2.9.4.2.2.54 | QA adhesive shipment 15 | Planned | 5d | 11Sep13 17Sep13 | 01Jul13 08Jul13 | None | | None | | 2.9.4.2.2.51[FS]; 2.9.4.2.2.53[FS] | 2.9.4.2.2.57[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.55 | Adhesive shipment 16 ordered | Planned | 0 | 27Aug13 27Aug13 | 14Feb13 14Feb13 | None | | None | | 2.9.4.2.2.52[FS+20d] | 2.9.4.2.2.58[FS+20d]; 2.9.4.2.2.56[FS+25d] |
| 2.9.4.2.2.56 | Receive adhesive shipment 16 | Planned | 5d | 02Oct13 08Oct13 | 12Jul13 18Jul13 | None | | None | | 2.9.4.2.2.53[FS]; 2.9.4.2.2.55[FS+25d] | 2.9.4.2.2.59[FS]; 2.9.4.2.2.57[FS] |
| 2.9.4.2.2.57 | QA adhesive shipment 16 | Planned | 5d | 09Oct13 15Oct13 | 19Jul13 25Jul13 | None | | None | | 2.9.4.2.2.54[FS]; 2.9.4.2.2.56[FS] | 2.9.4.2.2.60[FS]; 2.9.4.3.35[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.2.2.58 | Adhesive shipment 17 ordered | Planned | 0 | 25Sep13 25Sep13 | 22Mar13 22Mar13 | None | | None | | 2.9.4.2.2.55[FS+20d] | 2.9.4.2.2.59[FS+25d]; 2.9.4.2.2.61[FS+20d] |
| 2.9.4.2.2.59 | Receive adhesive shipment 17 | Planned | 5d | 30Oct13 05Nov13 | 19Aug13 23Aug13 | None | | None | | 2.9.4.2.2.58[FS+25d]; 2.9.4.2.2.56[FS] | 2.9.4.2.2.60[FS]; 2.9.4.2.2.62[FS] |
| 2.9.4.2.2.60 | QA adhesive shipment 17 | Planned | 5d | 06Nov13 12Nov13 | 26Aug13 30Aug13 | None | | None | | 2.9.4.2.2.57[FS]; 2.9.4.2.2.59[FS] | 2.9.4.2.2.63[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.61 | Adhesive shipment 18 ordered | Planned | 0 | 23Oct13 23Oct13 | 10Apr13 10Apr13 | None | | None | | 2.9.4.2.2.58[FS+20d] | 2.9.4.2.2.62[FS+25d]; 2.9.4.2.2.64[FS+15d] |
| 2.9.4.2.2.62 | Receive adhesive shipment 18 | Planned | 5d | 27Nov13 05Dec13 | 06Sep13 12Sep13 | None | | None | | 2.9.4.2.2.61[FS+25d]; 2.9.4.2.2.59[FS] | 2.9.4.2.2.63[FS]; 2.9.4.2.2.65[FS] |
| 2.9.4.2.2.63 | QA adhesive shipment 18 | Planned | 5d | 06Dec13 12Dec13 | 13Sep13 19Sep13 | None | | None | | 2.9.4.2.2.60[FS]; 2.9.4.2.2.62[FS] | 2.9.4.2.2.66[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.64 | Adhesive shipment 19 ordered | Planned | 0 | 13Nov13 13Nov13 | 29Apr13 29Apr13 | None | | None | | 2.9.4.2.2.61[FS+15d] | 2.9.4.2.2.65[FS+25d]; 2.9.4.2.2.67[FS] |
| 2.9.4.2.2.65 | Receive adhesive shipment 19 | Planned | 5d | 20Dec13 30Dec13 | 25Sep13 01Oct13 | None | | None | | 2.9.4.2.2.64[FS+25d]; 2.9.4.2.2.62[FS] | 2.9.4.2.2.66[FS]; 2.9.4.2.2.68[FS] |
| 2.9.4.2.2.66 | QA adhesive shipment 19 | Planned | 5d | 02Jan14 08Jan14 | 02Oct13 08Oct13 | None | | None | | 2.9.4.2.2.63[FS]; 2.9.4.2.2.65[FS] | 2.9.4.2.2.69[FS]; 2.9.4.3.35[FS] |
| 2.9.4.2.2.67 | Adhesive shipment 20 ordered (OBSOLETE) | Planned | 0 | 13Nov13 13Nov13 | 05Jun13 05Jun13 | None | | None | | 2.9.4.2.2.64[FS] | 2.9.4.2.2.68[FS]; 2.9.4.2.2.70[FS] |
| 2.9.4.2.2.68 | Receive adhesive shipment 20 (OBSOLETE) | Planned | 1d | 08Jan14 08Jan14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.2.2.67[FS]; 2.9.4.2.2.65[FS] | 2.9.4.2.2.71[SS]; 2.9.4.2.2.69[FS] |
| 2.9.4.2.2.69 | QA adhesive shipment 20 (OBSOLETE) | Planned | 1d | 09Jan14 09Jan14 | 15Jan14 15Jan14 | None | | None | | 2.9.4.2.2.66[FS]; 2.9.4.2.2.68[FS] | 2.9.4.2.2.72[SS] |
| 2.9.4.2.2.70 | Adhesive shipment 21 ordered (OBSOLETE) | Planned | 0 | 13Nov13 13Nov13 | 24Jun13 24Jun13 | None | | None | | 2.9.4.2.2.67[FS] | 2.9.4.2.2.71[FS]; 2.9.4.2.2.73[FS] |
| 2.9.4.2.2.71 | Receive adhesive shipment 21 (OBSOLETE) | Planned | 1d | 08Jan14 08Jan14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.2.2.68[SS]; 2.9.4.2.2.70[FS] | 2.9.4.2.2.74[SS]; 2.9.4.2.2.72[FS] |
| 2.9.4.2.2.72 | QA adhesive shipment 21 (OBSOLETE) | Planned | 1d | 09Jan14 09Jan14 | 15Jan14 15Jan14 | None | | None | | 2.9.4.2.2.69[SS]; 2.9.4.2.2.71[FS] | 2.9.4.2.2.75[SS] |
| 2.9.4.2.2.73 | Adhesive shipment 22 ordered (OBSOLETE) | Planned | 0 | 13Nov13 13Nov13 | 12Jul13 12Jul13 | None | | None | | 2.9.4.2.2.70[FS] | 2.9.4.2.2.76[FS]; 2.9.4.2.2.74[FS] |
| 2.9.4.2.2.74 | Receive adhesive shipment 22 (OBSOLETE) | Planned | 1d | 08Jan14 08Jan14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.2.2.71[SS]; 2.9.4.2.2.73[FS] | 2.9.4.2.2.77[SS]; 2.9.4.2.2.75[FS] |
| 2.9.4.2.2.75 | QA adhesive shipment 22 (OBSOLETE) | Planned | 1d | 09Jan14 09Jan14 | 15Jan14 15Jan14 | None | | None | | 2.9.4.2.2.72[SS]; 2.9.4.2.2.74[FS] | 2.9.4.2.2.78[SS] |
| 2.9.4.2.2.76 | Adhesive shipment 23 ordered (OBSOLETE) | Planned | 0 | 13Nov13 13Nov13 | 19Aug13 19Aug13 | None | | None | | 2.9.4.2.2.73[FS] | 2.9.4.2.2.77[FS]; 2.9.4.2.2.79[FS] |
| 2.9.4.2.2.77 | Receive adhesive shipment 23 (OBSOLETE) | Planned | 1d | 08Jan14 08Jan14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.2.2.74[SS]; 2.9.4.2.2.76[FS] | 2.9.4.2.2.80[SS]; 2.9.4.2.2.78[FS] |
| 2.9.4.2.2.78 | QA adhesive shipment 23 (OBSOLETE) | Planned | 1d | 09Jan14 09Jan14 | 15Jan14 15Jan14 | None | | None | | 2.9.4.2.2.75[SS]; 2.9.4.2.2.77[FS] | 2.9.4.2.2.81[SS] |
| 2.9.4.2.2.79 | Adhesive shipment 24 ordered (OBSOLETE) | Planned | 0 | 13Nov13 13Nov13 | 06Sep13 06Sep13 | None | | None | | 2.9.4.2.2.76[FS] | 2.9.4.2.2.80[FS] |
| 2.9.4.2.2.80 | Receive adhesive shipment 24 (OBSOLETE) | Planned | 1d | 08Jan14 08Jan14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.2.2.77[SS]; 2.9.4.2.2.79[FS] | 2.9.4.2.2.81[FS] |
| 2.9.4.2.2.81 | QA adhesive shipment 24 (OBSOLETE) | Planned | 1d | 09Jan14 09Jan14 | 15Jan14 15Jan14 | None | | None | | 2.9.4.2.2.78[SS]; 2.9.4.2.2.80[FS] | |
| 2.9.4.2.2.82 | Evaluate adhesive strengths | Complete | 84d | 01Jun12 28Feb13 | 01Jun12 28Sep12 | None | | None | | 2.9.4.2.2.11[SS] | |
| 2.9.4.2.3 | Expansion Tanks | In Progress | 316d | 01Nov12 10Feb14 | 01Sep11 31May13 | None | | None | | | |
| 2.9.4.2.3.1 | Establish expansion tank contract (OBSOLETE) | Complete | 1d | 01Nov12 01Nov12 | 01Sep11 28Nov11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.2.3.2[FS] |
| 2.9.4.2.3.2 | Fabricate and deliver 5 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 02Nov12 02Nov12 | 23Feb12 28Mar12 | None | | None | | 2.1.2.5.22[FS]; 2.9.4.2.3.1[FS]; 2.1.2.3.3[FS] | 2.9.4.2.3.3[FS] |
| 2.9.4.2.3.3 | Fabricate and deliver 5 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 05Nov12 05Nov12 | 13Apr12 17May12 | None | | None | | 2.9.4.2.3.2[FS] | 2.9.4.2.3.4[FS] |
| 2.9.4.2.3.4 | Fabricate and deliver 5 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 06Nov12 06Nov12 | 17Jul12 20Aug12 | None | | None | | 2.9.4.2.3.3[FS] | 2.9.4.2.3.5[FS] |
| 2.9.4.2.3.5 | Fabricate and deliver 5 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 07Nov12 07Nov12 | 17Oct12 20Nov12 | None | | None | | 2.9.4.2.3.4[FS] | 2.9.4.2.3.6[FS] |
| 2.9.4.2.3.6 | Fabricate and deliver 5 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 08Nov12 08Nov12 | 25Jan13 28Feb13 | None | | None | | 2.9.4.2.3.5[FS] | 2.9.4.2.3.7[FS] |
| 2.9.4.2.3.7 | Fabricate and deliver 3 shipments - expansion tanks (OBSOLETE) | Complete | 1d | 09Nov12 09Nov12 | 26Apr13 31May13 | None | | None | | 2.9.4.2.3.6[FS] | 2.9.4.2.3.9[FS] |
| 2.9.4.2.4 | Filler Grout | In Progress | 610d | 01Sep11 10Feb14 | 01Sep11 31May13 | None | | None | | | |
| 2.9.4.2.4.1 | Establish filler grout contract | Complete | 60d | 01Sep11 28Sep11 | 01Sep11 28Nov11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.2.4.2[FS] |
| 2.9.4.2.4.2 | Receive 5 batches - filler grout | Complete | 25d | 15Dec11 15Dec11 | 07Dec11 17Jan12 | None | | None | | 2.1.2.5.22[FS]; 2.9.4.2.4.1[FS]; 2.1.2.3.3[FS] | 2.9.4.2.5.10[SS+5d]; 2.9.4.2.4.3[FS]; 2.9.4.3.2[FS] |
| 2.9.4.2.4.3 | Receive 5 batches - filler grout | Complete | 25d | 15Dec11 16Jan13 | 13Apr12 17May12 | None | | None | | 2.9.4.3.6[FS]; 2.9.4.2.4.2[FS] | 2.9.4.2.4.4[FS]; 2.9.4.3.9[SS+5d] |
| 2.9.4.2.4.4 | Receive 5 batches - filler grout | Complete | 25d | 16Jan13 16Jan13 | 17Jul12 20Aug12 | None | | None | | 2.9.4.2.4.3[FS]; 2.9.4.3.12[FS] | 2.9.4.2.4.5[FS]; 2.9.4.3.15[SS+5d] |
| 2.9.4.2.4.5 | Receive 5 batches - filler grout | Complete | 25d | 16Jan13 13May13 | 17Oct12 20Nov12 | None | | None | | 2.9.4.2.4.4[FS]; 2.9.4.3.16[FS] | 2.9.4.3.21[SS+5d]; 2.9.4.2.4.6[FS] |
| 2.9.4.2.4.6 | Receive 5 batches - filler grout | Complete | 25d | 13May13 13May13 | 25Jan13 28Feb13 | None | | None | | 2.9.4.2.4.5[FS]; 2.9.4.3.24[FS] | 2.9.4.2.4.7[FS]; 2.9.4.3.27[SS+5d] |
| 2.9.4.2.4.7 | Receive 3 batches - filler grout | In Progress | 25d | 13May13 27Nov13 | 26Apr13 31May13 | None | | None | | 2.9.4.3.30[FS]; 2.9.4.2.4.6[FS] | 2.9.4.3.33[SS+5d]; 2.9.4.2.4.9[FS] |
| 2.9.4.2.5 | Block Base Shims | In Progress | 534d | 01Dec11 21Jan14 | 01Sep11 11Nov13 | None | | None | | | |
| 2.9.4.2.5.1 | Establish block base grout contract (OBSOLETE) | Complete | 18d | 01Dec11 28Dec11 | 01Sep11 28Nov11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.2.5.2[FS] |
| 2.9.4.2.5.2 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 25d | 29Dec11 29Dec11 | 07Dec11 17Jan12 | None | | None | | 2.1.2.3.3[FS]; 2.1.2.5.22[FS]; 2.9.4.2.5.1[FS] | 2.9.4.2.5.3[FS]; 2.9.4.2.5.10[SS+5d]; 2.9.4.3.2[SS+5d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.2.5.3 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 1d | 01Feb12 01Feb12 | 01Feb12 01Feb12 | None | | None | | 2.9.4.2.5.2[FS] | 2.9.4.2.5.4[FS] |
| 2.9.4.2.5.4 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 1d | 02Feb12 02Feb12 | 02Feb12 02Feb12 | None | | None | | 2.9.4.2.5.3[FS] | 2.9.4.2.5.5[FS] |
| 2.9.4.2.5.5 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 1d | 03Feb12 03Feb12 | 03Feb12 03Feb12 | None | | None | | 2.9.4.2.5.4[FS] | 2.9.4.2.5.6[FS] |
| 2.9.4.2.5.6 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 1d | 06Feb12 06Feb12 | 06Feb12 06Feb12 | None | | None | | 2.9.4.2.5.5[FS] | 2.9.4.2.5.7[FS] |
| 2.9.4.2.5.7 | Receive 5 batches - block base grout (OBSOLETE) | Complete | 1d | 07Feb12 07Feb12 | 07Feb12 07Feb12 | None | | None | | 2.9.4.2.5.6[FS] | 2.9.4.2.5.9[FS] |
| 2.9.4.2.5.11 | Receive pallet shims for Blocks 1-2 | Complete | 3d | 01Mar12 01Mar12 | 02Apr12 04Apr12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.2.5.10[FS]; 2.9.4.2.5.12[FS] |
| 2.9.4.2.5.12 | Receive pallet shims for Blocks 3-4 | Complete | 3d | 15Oct12 15Oct12 | 18Jun12 20Jun12 | None | | None | | 2.9.4.3.3[FS]; 2.9.4.2.5.11[FS] | 2.9.4.2.5.13[FS]; 2.9.4.3.5[FS] |
| 2.9.4.2.5.13 | Receive pallet shims for Blocks 5-6 | Complete | 3d | 03Dec12 03Dec12 | 05Sep12 07Sep12 | None | | None | | 2.9.4.3.5[FS]; 2.9.4.2.5.12[FS] | 2.9.4.2.5.14[FS]; 2.9.4.3.7[SS] |
| 2.9.4.2.5.14 | Receive pallet shims for Blocks 7-8 | Complete | 3d | 02Jan13 02Jan13 | 05Oct12 09Oct12 | None | | None | | 2.9.4.2.5.13[FS]; 2.9.4.3.7[FS] | 2.9.4.2.5.15[FS]; 2.9.4.3.10[FS] |
| 2.9.4.2.5.15 | Receive pallet shims for Blocks 9-10 | Complete | 3d | 02Jan13 02Jan13 | 06Nov12 08Nov12 | None | | None | | 2.9.4.2.5.14[FS]; 2.9.4.3.10[FS] | 2.9.4.2.5.16[FS]; 2.9.4.3.12[FS] |
| 2.9.4.2.5.16 | Receive pallet shims for Blocks 11-12 | Complete | 3d | 01Mar13 04Mar13 | 10Dec12 12Dec12 | None | | None | | 2.9.4.2.5.15[FS]; 2.9.4.3.12[FS] | 2.9.4.2.5.17[FS]; 2.9.4.3.15[FS] |
| 2.9.4.2.5.17 | Receive pallet shims for Blocks 13-14 | Complete | 3d | 01Mar13 04Mar13 | 15Jan13 17Jan13 | None | | None | | 2.9.4.2.5.16[FS]; 2.9.4.3.15[FS] | 2.9.4.2.5.18[FS]; 2.9.4.3.17[FS] |
| 2.9.4.2.5.18 | Receive pallet shims for Blocks 15-16 | Complete | 3d | 01Mar13 04Mar13 | 21Feb13 25Feb13 | None | | None | | 2.9.4.2.5.17[FS]; 2.9.4.3.17[FS] | 2.9.4.3.19[FS]; 2.9.4.2.5.19[FS] |
| 2.9.4.2.5.19 | Receive pallet shims for Blocks 17-18 | Complete | 3d | 01Mar13 04Mar13 | 29Mar13 02Apr13 | None | | None | | 2.9.4.3.19[FS]; 2.9.4.2.5.18[FS] | 2.9.4.2.5.20[FS]; 2.9.4.3.22[FS] |
| 2.9.4.2.5.20 | Receive pallet shims for Blocks 19-20 | Complete | 3d | 01Mar13 04Mar13 | 06May13 08May13 | None | | None | | 2.9.4.2.5.19[FS]; 2.9.4.3.22[FS] | 2.9.4.2.5.21[FS]; 2.9.4.3.24[FS] |
| 2.9.4.2.5.21 | Receive pallet shims for Blocks 21-22 | Planned | 3d | 16Aug13 20Aug13 | 12Jun13 14Jun13 | None | | None | | 2.9.4.2.5.20[FS]; 2.9.4.3.24[FS] | 2.9.4.3.27[FS]; 2.9.4.2.5.22[FS] |
| 2.9.4.2.5.22 | Receive pallet shims for Blocks 23-24 | Planned | 3d | 24Sep13 26Sep13 | 19Jul13 23Jul13 | None | | None | | 2.9.4.3.27[FS]; 2.9.4.2.5.21[FS] | 2.9.4.3.29[FS]; 2.9.4.2.5.23[FS] |
| 2.9.4.2.5.23 | Receive pallet shims for Blocks 25-26 | Planned | 3d | 30Oct13 01Nov13 | 26Aug13 28Aug13 | None | | None | | 2.9.4.3.29[FS]; 2.9.4.2.5.22[FS] | 2.9.4.2.5.24[FS]; 2.9.4.3.31[FS] |
| 2.9.4.2.5.24 | Receive pallet shims for Blocks 27-28 | Planned | 3d | 09Dec13 11Dec13 | 02Oct13 04Oct13 | None | | None | | 2.9.4.2.5.23[FS]; 2.9.4.3.31[FS] | 2.9.4.2.5.25[FS]; 2.9.4.3.34[FS] |
| 2.9.4.2.5.25 | Receive pallet shims for Blocks 29-30 (OBSOLETE) | Planned | 1d | 21Jan14 21Jan14 | 07Nov13 11Nov13 | None | | None | | 2.9.4.2.5.24[FS]; 2.9.4.3.34[FS] | 2.9.4.3.36[FS] |
| 2.9.4.2.6 | Vertical Module Gap Shims | In Progress | 453d | 30Mar12 21Jan14 | 02Apr12 11Nov13 | None | | None | | | |
| 2.9.4.2.6.1 | Tooling for shim cutting | Complete | 21d | 13Apr12 02Jul12 | 02Apr12 30Apr12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.2.5.10[SS] |
| 2.9.4.2.6.2 | Plastic shims for blocks 1-2 | Complete | 3d | 30Mar12 30Mar12 | 02Apr12 04Apr12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.2.6.3[FS]; 2.9.4.2.5.10[FS] |
| 2.9.4.2.6.3 | Plastic shims for blocks 3-4 | Complete | 3d | 15Oct12 15Oct12 | 18Jun12 20Jun12 | None | | None | | 2.9.4.2.6.2[FS]; 2.9.4.3.3[FS] | 2.9.4.2.6.4[FS] |
| 2.9.4.2.6.4 | Plastic shims for blocks 5-6 | Complete | 3d | 03Dec12 03Dec12 | 05Sep12 07Sep12 | None | | None | | 2.9.4.2.6.3[FS]; 2.9.4.3.5[FS] | 2.9.4.2.6.5[FS] |
| 2.9.4.2.6.5 | Plastic shims for blocks 7-8 | Complete | 3d | 02Jan13 02Jan13 | 05Oct12 09Oct12 | None | | None | | 2.9.4.2.6.4[FS]; 2.9.4.3.7[FS] | 2.9.4.2.6.6[FS] |
| 2.9.4.2.6.6 | Plastic shims for blocks 9-10 | Complete | 3d | 01Feb13 04Feb13 | 06Nov12 08Nov12 | None | | None | | 2.9.4.3.10[FS]; 2.9.4.2.6.5[FS] | 2.9.4.2.6.7[FS] |
| 2.9.4.2.6.7 | Plastic shims for blocks 11-12 | Complete | 3d | 01Feb13 04Feb13 | 10Dec12 12Dec12 | None | | None | | 2.9.4.2.6.6[FS]; 2.9.4.3.12[FS] | 2.9.4.2.6.8[FS] |
| 2.9.4.2.6.8 | Plastic shims for blocks 13-14 | Complete | 3d | 01Feb13 04Feb13 | 15Jan13 17Jan13 | None | | None | | 2.9.4.2.6.7[FS]; 2.9.4.3.15[FS] | 2.9.4.2.6.9[FS] |
| 2.9.4.2.6.9 | Plastic shims for blocks 15-16 | Complete | 3d | 01Feb13 04Feb13 | 21Feb13 25Feb13 | None | | None | | 2.9.4.2.6.8[FS]; 2.9.4.3.17[FS] | 2.9.4.2.6.10[FS] |
| 2.9.4.2.6.10 | Plastic shims for blocks 17-18 | Complete | 3d | 01Feb13 04Feb13 | 29Mar13 02Apr13 | None | | None | | 2.9.4.2.6.9[FS]; 2.9.4.3.19[FS] | 2.9.4.2.6.11[FS] |
| 2.9.4.2.6.11 | Plastic shims for blocks 19-20 | Complete | 3d | 01Feb13 04Feb13 | 06May13 08May13 | None | | None | | 2.9.4.2.6.10[FS]; 2.9.4.3.22[FS] | 2.9.4.2.6.12[FS] |
| 2.9.4.2.6.12 | Plastic shims for blocks 21-22 | Planned | 3d | 16Aug13 20Aug13 | 12Jun13 14Jun13 | None | | None | | 2.9.4.2.6.11[FS]; 2.9.4.3.24[FS] | 2.9.4.2.6.13[FS] |
| 2.9.4.2.6.13 | Plastic shims for blocks 23-24 | Planned | 3d | 24Sep13 26Sep13 | 19Jul13 23Jul13 | None | | None | | 2.9.4.2.6.12[FS]; 2.9.4.3.27[FS] | 2.9.4.2.6.14[FS] |
| 2.9.4.2.6.14 | Plastic shims for blocks 25-26 | Planned | 3d | 30Oct13 01Nov13 | 26Aug13 28Aug13 | None | | None | | 2.9.4.2.6.13[FS]; 2.9.4.3.29[FS] | 2.9.4.2.6.15[FS] |
| 2.9.4.2.6.15 | Plastic shims for blocks 27-28 | Planned | 3d | 09Dec13 11Dec13 | 02Oct13 04Oct13 | None | | None | | 2.9.4.2.6.14[FS]; 2.9.4.3.31[FS] | 2.9.4.2.6.16[FS] |
| 2.9.4.2.6.16 | Plastic shims for blocks 29-30 (OBSOLETE) | Planned | 1d | 21Jan14 21Jan14 | 07Nov13 11Nov13 | None | | None | | 2.9.4.2.6.15[FS]; 2.9.4.3.34[FS] | 2.9.4.3.36[FS] |
| 2.9.4.3 | Block Assembly and Alignment | In Progress | 437d | 02Jul12 31Mar14 | 27May11 31Mar14 | None | | None | | | |
| 2.9.4.3.1 | Operations review: Far detector assembly procedures | Complete | 7d | 02Jul12 20Jul12 | 27May11 03Jun11 | None | | None | | 2.9.1.4.13[SS]; 1.8.8.2.18[FS] | 2.9.4.3.2[FS] |
| 2.9.4.3.2 | Ready for Far Detector plane assembly | Complete | 0 | 20Jul12 20Jul12 | 29Aug11 29Aug11 | None | | None | | 2.9.4.1.9.4[FS]; 2.9.4.2.5.10[FS]; 2.9.4.2.5.2[SS+5d]; 1.8.5.5.33[FS]; 2.9.4.1.4[FS]; 2.9.4.2.4.2[FS]; 2.1.5.3.17[FS]; 2.1.5.3.18[FS]; 2.9.1.6.2.2[SS+20d]; 2.9.4.2.2.12[FS]; 2.9.4.1.3[SS+2d]; 2.9.1.6.2.1[SS+6d]; 2.1.5.3.11[FS]; 2.9.1.4.26[FS]; 2.5.3.1.18[FS]; 2.9.4.1.14[FS]; 2.1.5.3.15[FS]; 2.9.4.3.1[FS]; 2.9.4.1.8.7[FS]; 2.9.4.1.7.6[FS]; 2.9.2.2.23.5[FS]; 2.9.4.1.13[FS]; 2.9.4.1.19[FS]; 2.9.4.1.2[FS]; 2.1.7.3.15[FS]; 2.9.4.1.9.3[FS]; 2.9.6.4[FS]; 2.9.6.3[FS]; 2.9.6.2[FS]; 2.9.1.1.15[SS+3d] | 2.9.4.3.75[FS]; 2.9.1.5.5[FS]; 2.5.3.3.2.1.1.2[FS]; 2.9.4.3.3[SS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.3.3 | Assemble and mount block 1 | Complete | 30d | 26Jul12 10Sep12 | 08Nov11 14Dec11 | None | | None | | 2.1.7.3.17[FF+20d]; 2.5.3.3.2.1.1.2[SS+1d]; 2.5.3.3.2.1.2.2[FF+1d]; 2.9.4.2.2.12[FS]; 2.5.3.3.2.45.205[SS+1d]; 2.9.4.3.2[SS]; 2.1.7.3.18[FF] | 2.9.2.3.4[FS-28d]; 2.9.2.3.8[FS-28d]; 2.9.2.3.7[FS-28d]; 2.6.2.7.1[FS]; 2.9.4.3.70[SS]; 2.5.3.3.2.2.1.2[FS]; 2.9.4.2.6.3[FS]; 2.9.4.2.5.12[FS]; 2.9.4.2.1.10[FS]; 2.9.4.5.1[FS]; 2.9.4.3.4[FS]; 2.9.4.5.110[FS] |
| 2.9.4.3.4 | Assemble and mount block 2 | Complete | 20d | 11Sep12 05Oct12 | 18Jun12 30Jul12 | None | | None | | 2.9.1.1.20[FS]; 2.9.4.1.8.8[FF]; 2.9.4.1.17.5[FS]; 2.5.3.3.2.2.2.2[FF]; 2.9.4.3.3[FS]; 2.5.3.3.2.2.1.2[SS]; 2.9.4.2.2.15[FS]; 2.9.4.3.70[FS] | 2.9.4.3.5[FS]; 2.9.4.5.1[FF+15d]; 2.9.4.5.0.21[FS]; 2.5.3.3.2.3.1.2[FS]; 2.2.5.3.1[FS-1d]; 2.9.4.4.2[FS]; 2.10.9.26[FS]; 2.9.4.4.60.1[FS] |
| 2.9.4.3.5 | Assemble and mount block 3 | Complete | 20d | 05Oct12 25Oct12 | 31Jul12 04Sep12 | None | | None | | 2.5.3.3.2.3.2.2[FF]; 2.5.3.3.2.3.1.2[SS]; 2.9.4.3.4[FS]; 2.9.4.2.1.11[SS+1d]; 2.9.4.2.5.12[FS]; 2.9.4.2.2.18[FS] | 2.9.4.4.60.2[FS]; 2.9.4.2.5.13[FS]; 2.9.4.3.6[FS]; 2.6.2.7.2[FS]; 2.5.3.3.2.4.1.2[FS]; 2.9.4.2.6.4[FS]; 2.9.4.4.3[FS]; 2.2.5.3.2[FS-1d]; 2.9.4.2.1.12[FS] |
| 2.9.4.3.6 | Assemble and mount block 4 | Complete | 11d | 26Oct12 14Nov12 | 05Sep12 19Sep12 | None | | None | | 2.9.4.2.1.11[FS]; 2.5.3.3.2.4.2.2[FF]; 2.5.3.3.2.4.1.2[SS]; 2.9.4.3.5[FS] | 2.9.4.3.7[FS]; 2.9.4.2.4.3[FS]; 2.9.4.5.0.22[FS]; 2.5.3.3.2.5.1.2[FS]; 2.9.4.4.4[FS]; 2.2.5.3.3[FS-1d]; 2.9.4.5.2[FS]; 2.9.4.4.60.3[FS]; 2.9.4.5.111[FS] |
| 2.9.4.3.7 | Assemble and mount block 5 | Complete | 12d | 15Nov12 05Dec12 | 20Sep12 04Oct12 | None | | None | | 2.5.3.3.2.5.1.2[SS]; 2.9.4.3.6[FS]; 2.9.4.2.1.13[SS+1d]; 2.5.3.3.2.5.2.2[FF]; 2.9.4.2.5.13[SS] | 2.5.3.3.11.6[FS-10d]; 2.6.2.7.3[FS]; 2.5.3.3.2.6.1.2[FS]; 2.9.4.2.6.5[FS]; 2.9.4.4.5[FS]; 2.9.4.2.5.14[FS]; 2.9.4.3.8[FS]; 2.2.5.3.4[FS-1d]; 2.9.4.2.1.14[FS]; 2.9.4.4.60.4[FS] |
| 2.9.4.3.8 | Super-block 1 assembled | Complete | 0 | 05Dec12 05Dec12 | 04Oct12 04Oct12 | None | | None | | 2.9.4.3.7[FS] | 2.9.4.3.9[FS]; 2.7.4.6.1[FS]; 2.9.4.3.48[FS] |
| 2.9.4.3.9 | Assemble and mount block 6 | Complete | 12d | 06Dec12 04Jan13 | 05Oct12 19Oct12 | None | | None | | 2.5.3.3.2.6.1.2[SS]; 2.9.4.2.4.3[SS+5d]; 2.5.3.3.2.6.2.2[FF]; 2.9.4.2.2.21[FS]; 2.9.4.2.2.24[FS]; 2.9.4.3.8[FS]; 2.9.4.2.1.13[FS] | 2.5.3.3.11.7[FS-10d]; 2.9.4.5.0.23[FS]; 2.5.3.3.2.7.1.2[FS]; 2.9.4.4.6[FS]; 2.2.5.3.5[FS-1d]; 2.9.4.3.10[FS]; 2.9.4.5.112[FS]; 2.9.4.4.60.5[FS]; 2.9.4.5.3[FS] |
| 2.9.4.3.10 | Assemble and mount block 7 | Complete | 13d | 04Jan13 23Jan13 | 22Oct12 05Nov12 | None | | None | | 2.5.3.3.2.7.1.2[SS]; 2.5.3.3.2.7.2.2[FF]; 2.9.4.2.5.14[FS]; 2.9.4.3.9[FS]; 2.9.4.2.1.15[SS+1d] | 2.6.2.7.4[FS]; 2.5.3.3.2.8.1.2[FS]; 2.5.3.3.11.8[FS-10d]; 2.9.4.2.6.6[FS]; 2.2.5.3.6[FS-1d]; 2.9.4.2.5.15[FS]; 2.9.4.4.8[FS]; 2.9.4.3.11[FS]; 2.9.4.2.1.16[FS]; 2.9.4.4.60.6[FS] |
| 2.9.4.3.11 | Assemble and mount block 8 | Complete | 13d | 24Jan13 13Feb13 | 06Nov12 20Nov12 | None | | None | | 2.5.3.3.2.8.1.2[SS]; 2.5.3.3.2.8.2.2[FF]; 2.9.4.2.2.27[FS]; 2.9.4.3.10[FS]; 2.9.4.2.1.15[FS] | 2.9.4.5.113[FS]; 2.5.3.3.11.9[FS-10d]; 2.9.4.5.0.24[FS]; 2.7.2.5.13[FS]; 2.9.4.4.9[FS]; 2.2.5.3.7[FS-1d]; 2.9.4.3.12[FS]; 2.9.4.5.4[FS]; 2.9.4.4.60.7[FS]; 2.5.3.3.2.9.1.2[FS] |
| 2.9.4.3.12 | Assemble and mount block 9 | Complete | 13d | 14Feb13 05Mar13 | 21Nov12 07Dec12 | None | | None | | 2.5.3.3.2.9.1.2[SS]; 2.9.4.2.5.15[FS]; 2.9.4.3.11[FS]; 2.9.4.2.2.30[FF]; 2.5.3.3.2.9.2.2[FF]; 2.9.4.2.1.17[SS+1d] | 2.5.3.3.11.10[FS-10d]; 2.6.2.7.5[FS]; 2.9.4.2.4.4[FS]; 2.9.4.2.5.16[FS]; 2.2.5.3.8[FS-1d]; 2.9.4.2.6.7[FS]; 2.9.4.4.10[FS]; 2.9.4.3.13[FS]; 2.5.3.3.2.10.1.2[FS]; 2.9.4.2.1.18[FS]; 2.9.4.4.60.8[FS] |
| 2.9.4.3.13 | Assemble and mount block 10 | Complete | 13d | 05Mar13 20Mar13 | 10Dec12 26Dec12 | None | | None | | 2.5.3.3.2.10.2.2[FF]; 2.5.3.3.2.10.1.2[SS]; 2.9.4.3.12[FS]; 2.9.4.2.1.17[FS] | 2.5.3.3.11.11[FS-10d]; 2.9.4.4.60.9[FS]; 2.5.3.3.2.11.1.2[FS]; 2.9.4.5.114[FS]; 2.9.4.5.0.25[FS]; 2.2.5.3.9[FS-1d]; 2.9.4.3.14[FS]; 2.9.4.4.11[FS]; 2.9.4.5.5[FS] |
| 2.9.4.3.14 | Super-block 2 assembled | Complete | 0 | 20Mar13 20Mar13 | 26Dec12 26Dec12 | None | | None | | 2.9.4.3.13[FS] | 2.7.4.6.2[FS]; 2.9.4.3.15[FS]; 2.9.4.3.49[FS] |
| 2.9.4.3.15 | Assemble and mount block 11 | Complete | 13d | 20Mar13 04Apr13 | 27Dec12 14Jan13 | None | | None | | 2.5.3.3.2.11.2.2[FF]; 2.9.4.2.4.4[SS+5d]; 2.5.3.3.2.11.1.2[SS]; 2.9.4.2.5.16[FS]; 2.9.4.3.14[FS]; 2.9.4.2.1.19[SS+1d] | 2.5.3.3.11.12[FS-10d]; 2.6.2.7.6[FS]; 2.9.4.2.6.8[FS]; 2.9.4.2.5.17[FS]; 2.2.5.3.10[FS-1d]; 2.9.4.3.16[FS]; 2.9.4.4.12[FS]; 2.5.3.3.2.12.1.2[FS]; 2.9.4.2.1.20[FS]; 2.9.4.4.60.10[FS] |
| 2.9.4.3.16 | Assemble and mount block 12 | Complete | 13d | 04Apr13 18Apr13 | 15Jan13 01Feb13 | None | | None | | 2.9.1.1.19[FS]; 2.5.3.3.2.12.1.2[SS]; 2.5.3.3.2.12.2.2[FF]; 2.9.4.3.15[FS]; 2.9.4.2.1.19[FS] | 2.5.3.3.11.13[FS-10d]; 2.5.3.3.2.13.1.2[FS]; 2.9.4.5.0.26[FS]; 2.9.4.4.14[FS]; 2.9.4.2.4.5[FS]; 2.2.5.3.11[FS-1d]; 2.9.4.3.17[FS]; 2.9.4.4.60.11[FS]; 2.9.4.5.115[FS]; 2.9.4.5.6[FS] |
| 2.9.4.3.17 | Assemble and mount block 13 | Complete | 13d | 19Apr13 06May13 | 04Feb13 20Feb13 | None | | None | | 2.5.3.3.2.13.1.2[SS]; 2.5.3.3.2.13.2.2[FF]; 2.9.4.2.5.17[FS]; 2.9.4.2.1.21[SS+1d]; 2.9.4.3.16[FS] | 2.5.3.3.11.14[FS-10d]; 2.6.2.7.7[FS]; 2.5.3.3.2.14.1.2[FS]; 2.2.5.3.12[FS-1d]; 2.9.4.2.6.9[FS]; 2.9.4.4.15[FS]; 2.9.4.2.5.18[FS]; 2.9.4.3.18[FS]; 2.9.4.2.1.22[FS]; 2.9.4.4.60.12[FS] |
| 2.9.4.3.18 | Assemble and mount block 14 | Complete | 13d | 06May13 20May13 | 21Feb13 11Mar13 | None | | None | | 2.5.3.3.2.14.2.2[FF]; 2.5.3.3.2.14.1.2[SS]; 2.9.4.3.17[FS]; 2.9.4.2.1.21[FS] | 2.5.3.3.2.15.1.2[FS]; 2.5.3.3.11.15[FS-10d]; 2.9.4.5.0.27[FS]; 2.2.5.3.13[FS-1d]; 2.9.4.4.16[FS]; 2.9.4.3.19[FS]; 2.9.4.4.60.13[FS]; 2.9.4.5.116[FS]; 2.9.4.5.7[FS] |
| 2.9.4.3.19 | Assemble and mount block 15 | Complete | 13d | 20May13 04Jun13 | 12Mar13 28Mar13 | None | | None | | 2.5.3.3.2.15.1.2[SS]; 2.5.3.3.2.15.2.2[FF]; 2.9.4.2.5.18[FS]; 2.9.4.3.18[FS]; 2.9.4.2.1.23[SS+1d] | 2.5.3.3.11.16[FS-10d]; 2.9.4.4.60.14[FS]; 2.6.2.7.8[FS]; 2.5.3.3.2.16.1.2[FS]; 2.9.4.2.6.10[FS]; 2.9.4.2.5.19[FS]; 2.2.5.3.14[FS-1d]; 2.9.4.3.20[FS]; 2.9.4.4.17[FS]; 2.9.4.2.1.24[FS] |
| 2.9.4.3.20 | Super-block 3 assembled | Complete | 0 | 04Jun13 04Jun13 | 28Mar13 28Mar13 | None | | None | | 2.9.4.3.19[FS] | 2.9.4.3.21[FS]; 2.7.4.6.3[FS]; 2.9.4.3.50[FS] |
| 2.9.4.3.21 | Assemble and mount block 16 | Complete | 13d | 05Jun13 18Jun13 | 29Mar13 16Apr13 | None | | None | | 2.9.4.2.4.5[SS+5d]; 2.5.3.3.2.16.1.2[SS]; 2.5.3.3.2.16.2.2[FF]; 2.9.4.3.20[FS]; 2.9.4.2.1.23[FS] | 2.9.4.4.60.15[FS]; 2.5.3.3.2.17.1.2[FS]; 2.5.3.3.11.17[FS-10d]; 2.9.4.5.0.28[FS]; 2.2.5.3.15[FS-1d]; 2.9.4.4.18[FS]; 2.9.4.3.22[FS]; 2.9.4.5.117[FS]; 2.9.4.5.8[FS] |
| 2.9.4.3.22 | Assemble and mount block 17 | In Progress | 13d | 19Jun13 10Jul13 | 17Apr13 03May13 | None | | None | | 2.5.3.3.2.17.1.2[SS]; 2.5.3.3.2.17.2.2[FF]; 2.9.4.2.5.19[FS]; 2.9.4.3.21[FS]; 2.9.4.2.1.25[SS+1d] | 2.5.3.3.11.18[FS-10d]; 2.6.2.7.9[FS]; 2.5.3.3.2.18.1.2[FS]; 2.9.4.2.6.11[FS]; 2.2.5.3.16[FS-1d]; 2.9.4.2.5.20[FS]; 2.9.4.4.20[FS]; 2.9.4.3.23[FS]; 2.9.4.2.1.26[FS]; 2.9.4.4.60.16[FS] |
| 2.9.4.3.23 | Assemble and mount block 18 | Planned | 13d | 11Jul13 29Jul13 | 06May13 22May13 | None | | None | | 2.5.3.3.2.18.1.2[SS]; 2.5.3.3.2.18.2.2[FF]; 2.9.4.3.22[FS]; 2.9.4.2.1.25[FS] | 2.5.3.3.2.19.1.2[FS]; 2.5.3.3.11.19[FS-10d]; 2.7.2.5.16[FS]; 2.9.4.5.0.29[FS]; 2.2.5.3.17[FS-1d]; 2.9.4.4.21[FS]; 2.9.4.3.24[FS]; 2.9.4.5.118[FS]; 2.9.4.4.60.17[FS]; 2.9.4.5.9[FS] |
| 2.9.4.3.24 | Assemble and mount block 19 | Planned | 13d | 30Jul13 15Aug13 | 23May13 11Jun13 | None | | None | | 2.5.3.3.2.19.1.2[SS]; 2.9.4.2.5.20[FS]; 2.5.3.3.2.19.2.2[FF]; 2.9.4.3.23[FS]; 2.9.4.2.1.27[SS+1d] | 2.9.4.4.60.18[FS]; 2.6.2.7.10[FS]; 2.9.4.2.4.6[FS]; 2.9.4.2.5.21[FS]; 2.5.3.3.11.20[FS-10d]; 2.5.3.3.2.20.1.2[FS]; 2.9.4.2.6.12[FS]; 2.2.5.3.18[FS-1d]; 2.9.4.2.1.28[FS]; 2.9.4.4.22[FS]; 2.9.4.3.25[FS] |
| 2.9.4.3.25 | Assemble and mount block 20 | Planned | 13d | 16Aug13 04Sep13 | 12Jun13 28Jun13 | None | | None | | 2.5.3.3.2.20.1.2[SS]; 2.5.3.3.2.20.2.2[FF]; 2.9.4.3.24[FS]; 2.9.4.2.1.27[FS] | 2.5.3.3.2.21.1.2[FS]; 2.5.3.3.11.21[FS-10d]; 2.9.4.5.0.30[FS]; 2.2.5.3.19[FS-1d]; 2.9.4.4.23[FS]; 2.9.4.4.60.19[FS]; 2.9.4.3.26[FS]; 2.9.4.5.119[FS]; 2.9.4.5.10[FS] |
| 2.9.4.3.26 | Super-block 4 assembled | Planned | 0 | 04Sep13 04Sep13 | 28Jun13 28Jun13 | None | | None | | 2.9.4.3.25[FS] | 2.9.4.3.51[FS]; 2.10.9.15[FS]; 2.7.4.6.4[FS]; 2.9.4.3.27[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.3.27 | Assemble and mount block 21 | Planned | 13d | 05Sep13 23Sep13 | 01Jul13 18Jul13 | None | | None | | 2.5.3.3.2.21.1.2[SS]; 2.9.4.2.5.21[FS]; 2.9.4.2.4.6[SS+5d]; 2.5.3.3.2.21.2.2[FF]; 2.9.4.3.26[FS]; 2.9.4.2.1.29[SS+1d] | 2.6.2.7.11[FS]; 2.2.5.3.20[FS-1d]; 2.9.4.2.6.13[FS]; 2.9.4.2.5.22[FS]; 2.5.3.3.11.22[FS-10d]; 2.9.4.4.24[FS]; 2.9.4.4.60.20[FS]; 2.9.4.3.28[FS]; 2.9.4.2.1.30[FS]; 2.5.3.3.2.22.1.2[FS] |
| 2.9.4.3.28 | Assemble and mount block 22 | Planned | 13d | 24Sep13 10Oct13 | 19Jul13 06Aug13 | None | | None | | 2.5.3.3.2.22.1.2[SS]; 2.9.4.3.27[FS]; 2.9.4.2.1.29[FS]; 2.5.3.3.2.22.2.2[FF] | 2.5.3.3.11.23[FS-10d]; 2.5.3.3.2.23.1.2[FS]; 2.9.4.5.0.31[FS]; 2.9.4.4.26[FS]; 2.2.5.3.21[FS-1d]; 2.9.4.3.29[FS]; 2.9.4.4.60.21[FS]; 2.9.4.5.120[FS]; 2.9.4.5.11[FS] |
| 2.9.4.3.29 | Assemble and mount block 23 | Planned | 13d | 11Oct13 29Oct13 | 07Aug13 23Aug13 | None | | None | | 2.5.3.3.2.23.1.2[SS]; 2.5.3.3.2.23.2.2[FF]; 2.9.4.2.5.22[FS]; 2.9.4.3.28[FS]; 2.9.4.2.1.31[SS+1d] | 2.5.3.3.2.24.1.2[FS]; 2.6.2.7.12[FS]; 2.5.3.3.11.24[FS-10d]; 2.2.5.3.22[FS-1d]; 2.9.4.2.6.14[FS]; 2.9.4.4.27[FS]; 2.9.4.2.5.23[FS]; 2.9.4.3.30[FS]; 2.9.4.4.60.22[FS]; 2.9.4.2.1.32[FS]; 2.9.2.2.22.4[FS] |
| 2.9.4.3.30 | Assemble and mount block 24 | Planned | 13d | 30Oct13 15Nov13 | 26Aug13 12Sep13 | None | | None | | 2.5.3.3.2.24.1.2[SS]; 2.9.4.3.29[FS]; 2.5.3.3.2.24.2.2[FF]; 2.9.4.2.1.31[FS] | 2.9.4.2.4.7[FS]; 2.5.3.3.2.25.1.2[FS]; 2.9.4.5.0.32[FS]; 2.5.3.3.11.25[FS-10d]; 2.9.4.3.31[FS]; 2.9.4.4.28[FS]; 2.2.5.3.23[FS-1d]; 2.9.4.4.60.23[FS]; 2.9.4.5.121[FS]; 2.9.4.5.12[FS] |
| 2.9.4.3.31 | Assemble and mount block 25 | Planned | 13d | 18Nov13 06Dec13 | 13Sep13 01Oct13 | None | | None | | 2.5.3.3.2.25.1.2[SS]; 2.5.3.3.2.25.2.2[FF]; 2.9.4.2.5.23[FS]; 2.9.4.3.30[FS]; 2.9.4.2.1.33[SS+1d] | 2.6.2.7.13[FS]; 2.5.3.3.2.26.1.2[FS]; 2.5.3.3.11.26[FS-10d]; 2.9.4.2.6.15[FS]; 2.2.5.3.24[FS-1d]; 2.9.4.2.5.24[FS]; 2.9.4.3.32[FS]; 2.9.4.2.1.34[FS]; 2.9.4.4.60.24[FS]; 2.9.4.4.29[FS]; 2.9.2.2.22.7[FS] |
| 2.9.4.3.32 | Super-block 5 assembled | Planned | 0 | 06Dec13 06Dec13 | 01Oct13 01Oct13 | None | | None | | 2.9.4.3.31[FS] | 2.9.4.3.52[FS]; 2.9.4.3.33[FS]; 2.7.4.9.1[FS] |
| 2.9.4.3.33 | Assemble and mount block 26 | Planned | 13d | 09Dec13 27Dec13 | 02Oct13 18Oct13 | None | | None | | 2.9.4.2.4.7[SS+5d]; 2.5.3.3.2.26.1.2[SS]; 2.5.3.3.2.26.2.2[FF]; 2.9.4.3.32[FS]; 2.9.4.2.1.33[FS] | 2.5.3.3.11.27[FS-10d]; 2.5.3.3.2.27.1.2[FS-1d]; 2.9.4.5.0.33[FS]; 2.2.5.3.25[FS-1d]; 2.9.4.3.34[FS]; 2.9.4.4.60.25[FS]; 2.9.4.4.30[FS]; 2.9.4.5.122[FS]; 2.9.4.5.13[FS] |
| 2.9.4.3.34 | Assemble and mount block 27 | Planned | 13d | 30Dec13 17Jan14 | 21Oct13 06Nov13 | None | | None | | 2.5.3.3.2.27.1.2[SS]; 2.5.3.3.2.27.2.2[FF]; 2.9.4.2.5.24[FS]; 2.9.4.3.33[FS]; 2.9.4.2.1.35[SS+1d] | 2.5.3.3.11.28[FS-10d]; 2.6.2.7.14[FS]; 2.5.3.3.2.28.1.2[FS-1d]; 2.9.4.2.6.16[FS]; 2.2.5.3.26[FS-1d]; 2.9.4.2.5.25[FS]; 2.9.4.4.32[FS]; 2.9.4.3.35[FS]; 2.9.4.2.1.36[FS]; 2.9.4.4.60.26[FS] |
| 2.9.4.3.35 | Assemble and mount block 28 | Planned | 13d | 21Jan14 06Feb14 | 07Nov13 25Nov13 | None | | None | | 2.5.3.3.2.28.1.2[SS]; 2.9.4.3.34[FS]; 2.5.3.3.2.28.2.2[FF]; 2.9.4.2.1.35[FS]; 2.9.4.2.2.36[FS]; 2.9.4.2.2.33[FF]; 2.9.4.2.2.57[FS]; 2.9.4.2.2.39[FS]; 2.9.4.2.2.42[SS]; 2.9.4.2.2.45[FS]; 2.9.4.2.2.48[FS]; 2.9.4.2.2.54[FS]; 2.9.4.2.2.63[FS]; 2.9.4.2.2.51[FS]; 2.9.4.2.2.60[FS]; 2.9.4.2.2.66[FS] | 2.9.4.3.38[FS]; 2.9.4.5.0.34[FS]; 2.9.4.4.33[FS]; 2.2.5.3.27[FS-1d]; 2.9.4.3.36[FS]; 2.9.4.4.60.27[FS]; 2.5.3.3.2.29.1.2[FS]; 2.9.4.5.123[FS]; 2.9.4.5.14[FS] |
| 2.9.4.3.36 | Assemble and mount block 29 (OBSOLETE) | Planned | 1d | 07Feb14 07Feb14 | 26Nov13 16Dec13 | None | | None | | 2.5.3.3.2.29.1.2[SS]; 2.5.3.3.2.29.2.2[FF]; 2.9.4.2.6.16[FS]; 2.9.4.2.5.25[FS]; 2.9.4.3.35[FS]; 2.9.4.2.1.37[SS+1d] | 2.9.4.2.4.9[FS]; 2.6.2.7.15[FS]; 2.5.3.3.2.30.1.2[FS]; 2.9.4.4.35[FS]; 2.2.5.3.28[FS]; 2.9.4.4.34[FS]; 2.9.4.2.3.9[FS]; 2.9.4.3.37[FS]; 2.9.4.4.60.28[FS] |
| 2.9.4.3.37 | Assemble and mount block 30 (OBSOLETE) | Planned | 1d | 10Feb14 10Feb14 | 18Dec13 18Dec13 | None | | None | | 2.9.4.3.36[FS]; 2.9.4.2.1.37[FS]; 2.5.3.3.2.30.1.2[SS]; 2.5.3.3.2.30.2.2[FF] | 2.9.4.4.35[FS]; 2.2.5.3.29[FS]; 2.5.3.3.2.31.1.2[FS]; 2.9.4.5.124[FS]; 2.9.4.4.60.29[FS]; 2.9.4.5.15[FS] |
| 2.9.4.3.38 | Super-block 6 assembled | Planned | 0 | 06Feb14 06Feb14 | 16Dec13 16Dec13 | None | | None | | 2.9.4.3.35[FS]; 2.9.2.3.11[FF]; 2.9.2.3.12[FF]; 2.9.2.3.10[FF] | 2.9.4.3.53[FS]; 2.9.4.3.45[FS]; 2.9.4.3.65[FS]; 2.7.4.9.2[FS] |
| 2.9.4.3.48 | Survey super-block 1 | Complete | 5d | 13May13 17May13 | 05Oct12 11Oct12 | None | | None | | 2.9.4.3.8[FS] | 2.9.4.3.49[FS] |
| 2.9.4.3.49 | Survey super-block 2 | Complete | 5d | 03Jun13 03Jun13 | 27Dec12 04Jan13 | None | | None | | 2.9.4.3.14[FS]; 2.9.4.3.48[FS] | 2.9.4.3.50[FS] |
| 2.9.4.3.50 | Survey super-block 3 | Planned | 5d | 01Jul13 08Jul13 | 29Mar13 04Apr13 | None | | None | | 2.9.4.3.49[FS]; 2.9.4.3.20[FS] | 2.9.4.3.51[FS] |
| 2.9.4.3.51 | Survey super-block 4 | Planned | 5d | 05Sep13 11Sep13 | 01Jul13 08Jul13 | None | | None | | 2.9.4.3.26[FS]; 2.9.4.3.50[FS] | 2.9.4.3.52[FS] |
| 2.9.4.3.52 | Survey super-block 5 | Planned | 5d | 09Dec13 13Dec13 | 02Oct13 08Oct13 | None | | None | | 2.9.4.3.32[FS]; 2.9.4.3.51[FS] | 2.9.4.3.53[FS] |
| 2.9.4.3.53 | Survey super-block 6 | Planned | 5d | 07Feb14 13Feb14 | 17Dec13 23Dec13 | None | | None | | 2.9.4.3.38[FS]; 2.9.4.3.52[FS] | 2.9.4.3.55[FS]; 2.9.4.3.65[FS] |
| 2.9.4.3.60 | Block assembly and allignment completed - 15 kt (OBSOLETE) | Planned | 0 | 28Feb14 28Feb14 | 28Oct13 28Oct13 | None | | None | | 2.9.4.3.55[FS]; 2.9.4.3.47[FS]; 2.9.4.3.65[FS] | |
| 2.9.4.3.65 | Block assembly and allignment completed - 14 kt | Planned | 0 | 28Feb14 28Feb14 | 23Dec13 23Dec13 | None | | None | | 2.9.1.6.2.3.6[FS]; 2.9.1.6.2.4.3[FS]; 2.9.4.3.38[FS]; 2.9.4.3.53[FS] | 2.9.4.3.60[FS]; 2.9.2.2.22.8[FS] |
| 2.9.4.3.70 | Block 1 assembly started | Complete | 0 | 26Jul12 26Jul12 | 06Apr12 06Apr12 | None | | None | | 2.9.4.3.3[SS] | 2.9.4.3.4[FS] |
| 2.9.4.3.75 | Scanner maintenance - 2013 | Planned | 21d | 01Jul13 30Jul13 | 01Mar13 29Mar13 | None | | None | | 2.9.4.3.2[FS] | 2.9.4.3.76[FS] |
| 2.9.4.3.76 | Scanner maintenance - 2014 | Planned | 21d | 03Mar14 31Mar14 | 03Mar14 31Mar14 | Not Earlier Than | 01Mar14 | None | | 2.9.4.3.75[FS] | 2.10.9.1[FS] |
| 2.9.4.4 | Detector Block Filling | In Progress | 652d | 03Oct11 08May14 | 08Mar12 01Apr14 | None | | None | | | |
| 2.9.4.4.1 | Crew Training and Setup (OBSOLETE) | Complete | 1d | 03Oct11 03Oct11 | 08Mar12 08Mar12 | None | | None | | 2.1.2.5.22[FS]; 2.9.3.6[FF]; 2.1.2.3.3[FS] | 2.9.4.4.2[FF] |
| 2.9.4.4.2 | Fill block 1 | Complete | 18d | 11Dec12 30Jan13 | 31Jul12 23Aug12 | None | | None | | 2.9.3.6[FF]; 2.1.5.3.20[FF]; 2.9.4.3.4[FS]; 2.9.4.4.60.1[FS]; 2.2.5.3.1[SS+1d]; 2.9.1.6.1.3[FS-3d]; 2.1.5.3.16[FS]; 2.9.4.4.1[FF]; 2.9.2.3.5[FS] | 2.9.4.4.60.2[FS]; 2.6.1.4.1[FS]; 2.6.1.4.2[FS]; 2.9.4.4.3[FS] |
| 2.9.4.4.3 | Fill block 2 | Complete | 12d | 31Jan13 21Feb13 | 30Nov12 17Dec12 | None | | None | | 2.9.4.4.60.2[FS]; 2.2.5.3.2[SS+1d]; 2.9.4.3.5[FS]; 2.9.4.4.2[FS] | 2.9.4.4.60.3[FS]; 2.9.4.6.35[FS]; 2.9.4.6.50.1[FS]; 2.9.4.4.4[FS]; 2.9.4.5.62[FS]; 2.10.9.26[FS] |
| 2.9.4.4.4 | Fill block 3 | Complete | 12d | 21Feb13 07Mar13 | 18Dec12 08Jan13 | None | | None | | 2.2.5.3.3[SS+1d]; 2.9.4.3.6[FS]; 2.9.4.4.3[FS]; 2.9.2.3.8[SS+12d]; 2.9.2.3.4[SS+12d]; 2.9.4.4.60.3[FS] | 2.6.1.4.4[FS]; 2.6.1.4.3[FS]; 2.9.4.4.5[FS]; 2.9.4.4.60.4[FS] |
| 2.9.4.4.5 | Fill block 4 | Complete | 12d | 11Mar13 25Mar13 | 09Jan13 23Jan13 | None | | None | | 2.2.5.3.4[SS+1d]; 2.9.4.3.7[FS]; 2.9.4.4.4[FS]; 2.9.2.3.7[SS+10d]; 2.9.4.4.60.4[FS] | 2.9.4.5.65[FS]; 2.9.4.6.36[FS]; 2.9.4.6.50.2[FS]; 2.9.4.4.6[FS]; 2.9.4.4.60.5[FS] |
| 2.9.4.4.6 | Fill block 5 | Complete | 12d | 26Mar13 10Apr13 | 24Jan13 06Feb13 | None | | None | | 2.9.4.4.5[FS]; 2.9.4.4.60.5[FS]; 2.9.4.3.9[FS]; 2.2.5.3.5[SS+1d]; 2.9.2.3.6[SS] | 2.6.1.4.6[FS]; 2.6.1.4.5[FS]; 2.9.4.4.7[FS]; 2.9.4.4.60.6[FS] |
| 2.9.4.4.7 | Super-block 1 filled | Complete | 0 | 10Apr13 10Apr13 | 06Feb13 06Feb13 | None | | None | | 2.9.4.4.6[FS] | 2.9.4.4.60.6[FS]; 2.9.4.4.8[FS] |
| 2.9.4.4.8 | Fill block 6 | Complete | 12d | 10Apr13 29Apr13 | 07Feb13 20Feb13 | None | | None | | 2.2.5.3.6[SS+1d]; 2.9.4.3.10[FS]; 2.9.4.4.60.6[FS]; 2.9.4.4.7[FS] | 2.9.4.6.37[FS]; 2.9.4.6.50.3[FS]; 2.9.4.4.9[FS]; 2.9.4.4.60.7[FS]; 2.9.4.5.68[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.4.9 | Fill block 7 | Complete | 12d | 29Apr13 11May13 | 22Feb13 07Mar13 | None | | None | | 2.9.4.3.11[FS]; 2.9.4.4.60.7[FS]; 2.2.5.3.7[SS+1d]; 2.9.4.4.8[FS] | 2.6.1.4.8[FS]; 2.6.1.4.7[FS]; 2.9.4.4.10[FS]; 2.9.4.4.60.8[FS] |
| 2.9.4.4.10 | Fill block 8 | Complete | 12d | 13May13 28May13 | 11Mar13 22Mar13 | None | | None | | 2.2.5.3.8[SS+1d]; 2.9.4.3.12[FS]; 2.9.4.4.60.8[FS]; 2.9.4.4.9[FS] | 2.9.4.4.60.9[FS]; 2.9.4.6.38[FS]; 2.9.4.6.50.4[FS]; 2.9.4.4.11[FS]; 2.9.4.5.71[FS] |
| 2.9.4.4.11 | Fill block 9 | Complete | 12d | 29May13 27Jun13 | 26Mar13 08Apr13 | None | | None | | 2.9.4.4.60.9[FS]; 2.2.5.3.9[SS+1d]; 2.9.4.4.10[FS]; 2.9.4.3.13[FS] | 2.6.1.4.9[FS]; 2.6.1.4.10[FS]; 2.9.4.4.12[FS]; 2.9.4.4.60.10[FS] |
| 2.9.4.4.12 | Fill block 10 | In Progress | 12d | 27Jun13 16Jul13 | 10Apr13 23Apr13 | None | | None | | 2.2.5.3.10[SS+1d]; 2.9.4.3.15[FS]; 2.9.4.4.11[FS]; 2.9.4.4.60.10[FS] | 2.9.4.6.39[FS]; 2.9.4.6.50.5[FS]; 2.9.4.4.13[FS]; 2.9.4.4.60.11[FS]; 2.9.4.5.74[FS] |
| 2.9.4.4.13 | Super-block 2 filled | Planned | 0 | 16Jul13 16Jul13 | 23Apr13 23Apr13 | None | | None | | 2.9.4.4.12[FS] | 2.9.4.4.14[FS]; 2.9.4.4.60.11[FS] |
| 2.9.4.4.14 | Fill block 11 | Planned | 12d | 17Jul13 01Aug13 | 25Apr13 08May13 | None | | None | | 2.9.4.3.16[FS]; 2.2.5.3.11[SS+1d]; 2.9.4.4.60.11[FS]; 2.9.4.4.13[FS] | 2.6.1.4.11[FS]; 2.6.1.4.12[FS]; 2.9.4.4.15[FS]; 2.9.4.4.60.12[FS] |
| 2.9.4.4.15 | Fill block 12 | Planned | 11d | 02Aug13 16Aug13 | 10May13 23May13 | None | | None | | 2.9.4.3.17[FS]; 2.9.4.4.60.12[FS]; 2.2.5.3.12[SS+1d]; 2.9.4.4.14[FS] | 2.9.4.6.50.6[FS]; 2.9.4.6.40[FS]; 2.9.4.4.16[FS]; 2.9.4.4.60.13[FS]; 2.9.4.5.77[FS] |
| 2.9.4.4.16 | Fill block 13 | Planned | 11d | 19Aug13 03Sep13 | 28May13 10Jun13 | None | | None | | 2.9.4.3.18[FS]; 2.2.5.3.13[SS+1d]; 2.9.4.4.60.13[FS]; 2.9.4.4.15[FS] | 2.9.4.4.60.14[FS]; 2.6.1.4.14[FS]; 2.6.1.4.13[FS]; 2.9.4.4.17[FS] |
| 2.9.4.4.17 | Fill block 14 | Planned | 11d | 04Sep13 18Sep13 | 14Jun13 27Jun13 | None | | None | | 2.2.5.3.14[SS+1d]; 2.9.4.4.60.14[FS]; 2.9.4.4.16[FS]; 2.9.4.3.19[FS] | 2.9.4.4.60.15[FS]; 2.9.4.6.50.7[FS]; 2.9.4.6.41[FS]; 2.9.4.4.18[FS]; 2.9.4.5.80[FS] |
| 2.9.4.4.18 | Fill block 15 | Planned | 11d | 19Sep13 03Oct13 | 03Jul13 19Jul13 | None | | None | | 2.2.5.3.15[SS+1d]; 2.9.4.4.60.15[FS]; 2.9.4.3.21[FS]; 2.9.4.4.17[FS] | 2.6.1.4.15[FS]; 2.6.1.4.16[FS]; 2.9.4.4.19[FS]; 2.9.4.4.60.16[FS] |
| 2.9.4.4.19 | Super-block 3 filled | Planned | 0 | 03Oct13 03Oct13 | 19Jul13 19Jul13 | None | | None | | 2.9.4.4.18[FS] | 2.9.4.4.60.16[FS]; 2.9.4.4.20[FS] |
| 2.9.4.4.20 | Fill block 16 | Planned | 11d | 04Oct13 18Oct13 | 23Jul13 07Aug13 | None | | None | | 2.2.5.3.16[SS+1d]; 2.9.4.4.60.16[FS]; 2.9.4.3.22[FS]; 2.9.4.4.19[FS] | 2.9.4.5.83[FS]; 2.9.4.4.60.17[FS]; 2.9.4.6.50.8[FS]; 2.9.4.6.42[FS]; 2.9.4.4.21[FS] |
| 2.9.4.4.21 | Fill block 17 | Planned | 11d | 21Oct13 04Nov13 | 09Aug13 26Aug13 | None | | None | | 2.2.5.3.17[SS+1d]; 2.9.4.4.60.17[FS]; 2.9.4.3.23[FS]; 2.9.4.4.20[FS] | 2.9.4.4.60.18[FS]; 2.6.1.4.17[FS]; 2.6.1.4.18[FS]; 2.9.4.4.22[FS] |
| 2.9.4.4.22 | Fill block 18 | Planned | 11d | 05Nov13 19Nov13 | 28Aug13 13Sep13 | None | | None | | 2.9.4.4.60.18[FS]; 2.2.5.3.18[SS+1d]; 2.9.4.3.24[FS]; 2.9.4.4.21[FS] | 2.9.4.5.86[FS]; 2.9.4.6.50.9[FS]; 2.9.4.6.43[FS]; 2.9.4.4.60.19[FS]; 2.9.4.4.23[FS] |
| 2.9.4.4.23 | Fill block 19 | Planned | 11d | 20Nov13 06Dec13 | 17Sep13 02Oct13 | None | | None | | 2.9.4.4.60.19[FS]; 2.2.5.3.19[SS+1d]; 2.9.4.3.25[FS]; 2.9.4.4.22[FS] | 2.6.1.4.19[FS]; 2.6.1.4.20[FS]; 2.9.4.4.60.20[FS]; 2.9.4.4.24[FS] |
| 2.9.4.4.24 | Fill block 20 | Planned | 11d | 09Dec13 23Dec13 | 04Oct13 21Oct13 | None | | None | | 2.2.5.3.20[SS+1d]; 2.9.4.4.60.20[FS]; 2.9.4.3.27[FS]; 2.9.4.4.23[FS] | 2.9.4.5.89[FS]; 2.9.4.6.50.10[FS]; 2.9.4.6.44[FS]; 2.9.4.4.60.21[FS]; 2.9.4.4.25[FS] |
| 2.9.4.4.25 | Super-block 4 filled | Planned | 0 | 23Dec13 23Dec13 | 21Oct13 21Oct13 | None | | None | | 2.9.4.4.24[FS] | 2.9.4.4.60.21[FS]; 2.9.4.4.26[FS] |
| 2.9.4.4.26 | Fill block 21 | Planned | 11d | 26Dec13 13Jan14 | 23Oct13 07Nov13 | None | | None | | 2.9.4.4.60.21[FS]; 2.2.5.3.21[SS+1d]; 2.9.4.3.28[FS]; 2.9.4.4.25[FS] | 2.6.1.4.21[FS]; 2.6.1.4.22[FS]; 2.9.4.4.60.22[FS]; 2.9.4.4.27[FS] |
| 2.9.4.4.27 | Fill block 22 | Planned | 11d | 14Jan14 29Jan14 | 11Nov13 26Nov13 | None | | None | | 2.2.5.3.22[SS+1d]; 2.9.4.4.60.22[FS]; 2.9.4.3.29[FS]; 2.9.4.4.26[FS] | 2.9.4.6.50.11[FS]; 2.9.4.6.45[FS]; 2.9.4.4.60.23[FS]; 2.9.4.4.28[FS]; 2.9.4.5.92[FS] |
| 2.9.4.4.28 | Fill block 23 | Planned | 11d | 30Jan14 13Feb14 | 02Dec13 17Dec13 | None | | None | | 2.9.4.4.60.23[FS]; 2.2.5.3.23[SS+1d]; 2.9.4.3.30[FS]; 2.9.4.4.27[FS] | 2.6.1.4.24[FS]; 2.6.1.4.23[FS]; 2.9.4.4.60.24[FS]; 2.9.4.4.29[FS] |
| 2.9.4.4.29 | Fill block 24 | Planned | 11d | 14Feb14 28Feb14 | 19Dec13 09Jan14 | None | | None | | 2.2.5.3.24[SS+1d]; 2.9.4.4.60.24[FS]; 2.9.4.3.31[FS]; 2.9.4.4.28[FS] | 2.9.4.5.95[FS]; 2.9.4.6.50.12[FS]; 2.9.4.6.46[FS]; 2.9.4.4.60.25[FS]; 2.9.4.4.30[FS] |
| 2.9.4.4.30 | Fill block 25 | Planned | 11d | 03Mar14 17Mar14 | 13Jan14 29Jan14 | None | | None | | 2.9.4.4.60.25[FS]; 2.2.5.3.25[SS+1d]; 2.9.4.3.33[FS]; 2.9.4.4.29[FS] | 2.6.1.4.26[FS]; 2.6.1.4.25[FS]; 2.9.4.4.60.26[FS]; 2.9.4.4.31[FS] |
| 2.9.4.4.31 | Super-block 5 filled | Planned | 0 | 17Mar14 17Mar14 | 29Jan14 29Jan14 | None | | None | | 2.9.4.4.30[FS] | 2.9.4.4.60.26[FS]; 2.9.4.4.32[FS] |
| 2.9.4.4.32 | Fill block 26 | Planned | 11d | 18Mar14 01Apr14 | 31Jan14 17Feb14 | None | | None | | 2.2.5.3.26[SS+1d]; 2.9.4.4.60.26[FS]; 2.9.4.3.34[FS]; 2.9.4.4.31[FS] | 2.9.4.5.98[FS]; 2.9.4.6.50.13[FS]; 2.9.4.6.47[FS]; 2.9.4.4.60.27[FS]; 2.9.4.4.33[FS] |
| 2.9.4.4.33 | Fill block 27 | Planned | 11d | 02Apr14 16Apr14 | 20Feb14 07Mar14 | None | | None | | 2.9.4.3.35[FS]; 2.2.5.3.27[SS+1d]; 2.9.4.4.60.27[FS]; 2.9.4.4.32[FS] | 2.9.4.4.60.28[FS]; 2.6.1.4.28[FS]; 2.6.1.4.27[FS]; 2.9.4.4.34[FS] |
| 2.9.4.4.34 | Fill block 28 | Planned | 11d | 17Apr14 01May14 | 10Mar14 25Mar14 | None | | None | | 2.9.2.2.22.8[FS]; 2.9.4.4.60.28[FS]; 2.2.5.3.28[SS+1d]; 2.9.4.3.36[FS]; 2.9.4.4.33[FS] | 2.9.4.6.48[FS]; 2.9.4.6.50.14[FS]; 2.9.4.4.37[FS]; 2.9.4.4.35[FS]; 2.9.4.5.101[FS]; 2.9.4.4.60.29[FS] |
| 2.9.4.4.35 | Fill block 29 (OBSOLETE) | Planned | 1d | 02May14 02May14 | 14Jan14 30Jan14 | None | | None | | 2.2.5.3.29[SS+1d]; 2.9.2.2.22.8[FS]; 2.9.4.3.36[FS]; 2.9.4.3.37[FS]; 2.9.4.4.34[FS]; 2.9.4.4.60.29[FS] | 2.9.4.4.36[FF]; 2.6.1.4.29[FS]; 2.6.1.4.30[FS]; 2.9.4.4.60.30[FF] |
| 2.9.4.4.36 | Fill block 30 (OBSOLETE) | Planned | 1d | 05May14 05May14 | 31Jan14 31Jan14 | None | | None | | 2.9.4.4.35[FF]; 2.9.2.2.22.8[FS]; 2.2.5.3.30[SS+1d]; 2.9.4.4.60.30[SS] | 2.9.4.6.50.15[FS]; 2.9.4.4.44[FS]; 2.9.4.5.104[FS]; 2.9.4.6.49[FS] |
| 2.9.4.4.37 | Super-block 6 filled | Planned | 0 | 01May14 01May14 | 25Mar14 25Mar14 | None | | None | | 2.9.4.4.34[FS] | 2.9.4.4.55[FS] |
| 2.9.4.4.47 | Super-block 7 filled (OBSOLETE) | Planned | 0 | 08May14 08May14 | 24Jan14 24Jan14 | None | | None | | 2.9.4.4.46[FS] | |
| 2.9.4.4.48 | Scintillator heating for winter 2012-2013 | Complete | 80d | 03Dec12 29Mar13 | 03Dec12 29Mar13 | None | | None | | 2.2.5.3.1[SS-5d] | 2.9.4.4.49[FS] |
| 2.9.4.4.49 | Scintillator heating for winter 2013-2014 | Planned | 100d | 01Nov13 31Mar14 | 01Nov13 31Mar14 | Not Earlier Than | 01Nov13 | None | | 2.9.4.4.48[FS] | 2.10.9.1[FS] |
| 2.9.4.4.55 | Final detector survey - 14 kt | Planned | 5d | 02May14 08May14 | 26Mar14 01Apr14 | None | | None | | 2.9.4.4.37[FS] | 2.9.4.5.55[FS] |
| 2.9.4.4.60 | Block Filling Milestones | In Progress | 349d | 11Dec12 05May14 | 31Jul12 30Jan14 | None | | None | | | |
| 2.9.4.4.60.1 | Begin Filling Block 01 | Complete | 0 | 11Dec12 11Dec12 | 31Jul12 31Jul12 | None | | None | | 2.9.1.6.1.3[FS-3d]; 2.2.5.3.1[SS+1d]; 2.9.4.3.4[FS]; 2.9.2.3.5[FS] | 2.9.4.4.2[FS]; 2.9.4.4.60.2[FS] |
| 2.9.4.4.60.2 | Begin Filling Block 02 | Complete | 0 | 31Jan13 31Jan13 | 05Sep12 05Sep12 | None | | None | | 2.2.5.3.2[SS+1d]; 2.9.4.4.2[FS]; 2.9.4.3.5[FS]; 2.9.4.4.60.1[FS] | 2.9.4.4.3[FS]; 2.9.4.4.60.3[FS] |
| 2.9.4.4.60.3 | Begin Filling Block 03 | Complete | 0 | 21Feb13 21Feb13 | 21Sep12 21Sep12 | None | | None | | 2.9.2.3.8[SS+12d]; 2.9.4.4.3[FS]; 2.9.2.3.4[SS+12d]; 2.2.5.3.3[SS]; 2.9.4.3.6[FS]; 2.9.4.4.60.2[FS] | 2.9.4.4.60.4[FS]; 2.9.4.4.4[FS] |
| 2.9.4.4.60.4 | Begin Filling Block 04 | Complete | 0 | 11Mar13 11Mar13 | 09Oct12 09Oct12 | None | | None | | 2.9.4.4.60.3[FS]; 2.9.2.3.7[SS+10d]; 2.2.5.3.4[SS+1d]; 2.9.4.4.4[FS]; 2.9.4.3.7[FS] | 2.9.4.4.60.5[FS]; 2.9.4.4.5[FS] |
| 2.9.4.4.60.5 | Begin Filling Block 05 | Complete | 0 | 26Mar13 26Mar13 | 23Oct12 23Oct12 | None | | None | | 2.9.4.4.60.4[FS]; 2.9.2.3.6[SS]; 2.9.4.3.9[FS]; 2.2.5.3.5[SS+1d]; 2.9.4.4.5[FS] | 2.9.4.4.60.6[FS]; 2.9.4.4.6[FS] |
| 2.9.4.4.60.6 | Begin Filling Block 06 | Complete | 0 | 10Apr13 10Apr13 | 06Nov12 06Nov12 | None | | None | | 2.9.4.4.60.5[FS]; 2.9.4.4.7[FS]; 2.9.4.3.10[FS]; 2.2.5.3.6[SS+1d]; 2.9.4.4.6[FS] | 2.9.4.4.60.7[FS]; 2.9.4.4.8[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.4.60.7 | Begin Filling Block 07 | Complete | 0 | 29Apr13 29Apr13 | 21Nov12 21Nov12 | None | | None | | 2.9.4.4.60.6[FS]; 2.2.5.3.7[SS+1d]; 2.9.4.4.8[FS]; 2.9.4.3.11[FS] | 2.9.4.4.9[FS]; 2.9.4.4.60.8[FS] |
| 2.9.4.4.60.8 | Begin Filling Block 08 | Complete | 0 | 13May13 13May13 | 10Dec12 10Dec12 | None | | None | | 2.2.5.3.8[SS+1d]; 2.9.4.4.9[FS]; 2.9.4.3.12[FS]; 2.9.4.4.60.7[FS] | 2.9.4.4.60.9[FS]; 2.9.4.4.10[FS] |
| 2.9.4.4.60.9 | Begin Filling Block 09 | Complete | 0 | 29May13 29May13 | 27Dec12 27Dec12 | None | | None | | 2.9.4.4.60.8[FS]; 2.9.4.4.10[FS]; 2.9.4.3.13[FS]; 2.2.5.3.9[SS+1d] | 2.9.4.4.11[FS]; 2.9.4.4.60.10[FS] |
| 2.9.4.4.60.10 | Begin Filling Block 10 | Complete | 0 | 27Jun13 27Jun13 | 17Jan13 17Jan13 | None | | None | | 2.2.5.3.10[SS+1d]; 2.9.4.3.15[FS]; 2.9.4.4.11[FS]; 2.9.4.4.60.9[FS] | 2.9.4.4.60.11[FS]; 2.9.4.4.12[FS] |
| 2.9.4.4.60.11 | Begin Filling Block 11 | Planned | 0 | 17Jul13 17Jul13 | 06Feb13 06Feb13 | None | | None | | 2.9.4.4.60.10[FS]; 2.2.5.3.11[SS+1d]; 2.9.4.3.16[FS]; 2.9.4.4.12[FS]; 2.9.4.4.13[FS] | 2.9.4.4.60.12[FS]; 2.9.4.4.14[FS] |
| 2.9.4.4.60.12 | Begin Filling Block 12 | Planned | 0 | 02Aug13 02Aug13 | 25Feb13 25Feb13 | None | | None | | 2.9.4.4.60.11[FS]; 2.2.5.3.12[SS+1d]; 2.9.4.3.17[FS]; 2.9.4.4.14[FS] | 2.9.4.4.60.13[FS]; 2.9.4.4.15[FS] |
| 2.9.4.4.60.13 | Begin Filling Block 13 | Planned | 0 | 19Aug13 19Aug13 | 14Mar13 14Mar13 | None | | None | | 2.9.4.4.60.12[FS]; 2.9.4.4.15[FS]; 2.2.5.3.13[SS+1d]; 2.9.4.3.18[FS] | 2.9.4.4.60.14[FS]; 2.9.4.4.16[FS] |
| 2.9.4.4.60.14 | Begin Filling Block 14 | Planned | 0 | 04Sep13 04Sep13 | 02Apr13 02Apr13 | None | | None | | 2.9.4.4.60.13[FS]; 2.9.4.4.16[FS]; 2.9.4.3.19[FS]; 2.2.5.3.14[SS+1d] | 2.9.4.4.60.15[FS]; 2.9.4.4.17[FS] |
| 2.9.4.4.60.15 | Begin Filling Block 15 | Planned | 0 | 19Sep13 19Sep13 | 19Apr13 19Apr13 | None | | None | | 2.9.4.4.60.14[FS]; 2.9.4.3.21[FS]; 2.2.5.3.15[SS+1d]; 2.9.4.4.17[FS] | 2.9.4.4.18[FS]; 2.9.4.4.60.16[FS] |
| 2.9.4.4.60.16 | Begin Filling Block 16 | Planned | 0 | 04Oct13 04Oct13 | 08May13 08May13 | None | | None | | 2.9.4.4.19[FS]; 2.2.5.3.16[SS+1d]; 2.9.4.4.60.15[FS]; 2.9.4.3.22[FS]; 2.9.4.4.18[FS] | 2.9.4.4.60.17[FS]; 2.9.4.4.20[FS] |
| 2.9.4.4.60.17 | Begin Filling Block 17 | Planned | 0 | 21Oct13 21Oct13 | 28May13 28May13 | None | | None | | 2.9.4.4.60.16[FS]; 2.9.4.4.20[FS]; 2.2.5.3.17[SS+1d]; 2.9.4.3.23[FS] | 2.9.4.4.21[FS]; 2.9.4.4.60.18[FS] |
| 2.9.4.4.60.18 | Begin Filling Block 18 | Planned | 0 | 05Nov13 05Nov13 | 14Jun13 14Jun13 | None | | None | | 2.9.4.4.21[FS]; 2.9.4.3.24[FS]; 2.9.4.4.60.17[FS]; 2.2.5.3.18[SS+1d] | 2.9.4.4.60.19[FS]; 2.9.4.4.22[FS] |
| 2.9.4.4.60.19 | Begin Filling Block 19 | Planned | 0 | 20Nov13 20Nov13 | 03Jul13 03Jul13 | None | | None | | 2.9.4.4.60.18[FS]; 2.9.4.3.25[FS]; 2.2.5.3.19[SS+1d]; 2.9.4.4.22[FS] | 2.9.4.4.60.20[FS]; 2.9.4.4.23[FS] |
| 2.9.4.4.60.20 | Begin Filling Block 20 | Planned | 0 | 09Dec13 09Dec13 | 23Jul13 23Jul13 | None | | None | | 2.9.4.4.60.19[FS]; 2.9.4.4.23[FS]; 2.2.5.3.20[SS+1d]; 2.9.4.3.27[FS] | 2.9.4.4.24[FS]; 2.9.4.4.60.21[FS] |
| 2.9.4.4.60.21 | Begin Filling Block 21 | Planned | 0 | 26Dec13 26Dec13 | 09Aug13 09Aug13 | None | | None | | 2.9.4.3.28[FS]; 2.9.4.4.24[FS]; 2.9.4.4.25[FS]; 2.2.5.3.21[SS+1d]; 2.9.4.4.60.20[FS] | 2.9.4.4.60.22[FS]; 2.9.4.4.26[FS] |
| 2.9.4.4.60.22 | Begin Filling Block 22 | Planned | 0 | 14Jan14 14Jan14 | 28Aug13 28Aug13 | None | | None | | 2.9.4.4.60.21[FS]; 2.2.5.3.22[SS+1d]; 2.9.4.3.29[FS]; 2.9.4.4.26[FS] | 2.9.4.4.60.23[FS]; 2.9.4.4.27[FS] |
| 2.9.4.4.60.23 | Begin Filling Block 23 | Planned | 0 | 30Jan14 30Jan14 | 17Sep13 17Sep13 | None | | None | | 2.9.4.4.60.22[FS]; 2.9.4.3.30[FS]; 2.9.4.4.27[FS]; 2.2.5.3.23[SS+1d] | 2.9.4.4.28[FS]; 2.9.4.4.60.24[FS] |
| 2.9.4.4.60.24 | Begin Filling Block 24 | Planned | 0 | 14Feb14 14Feb14 | 04Oct13 04Oct13 | None | | None | | 2.9.4.4.28[FS]; 2.2.5.3.24[SS+1d]; 2.9.4.3.31[FS]; 2.9.4.4.60.23[FS] | 2.9.4.4.29[FS]; 2.9.4.4.60.25[FS] |
| 2.9.4.4.60.25 | Begin Filling Block 25 | Planned | 0 | 03Mar14 03Mar14 | 23Oct13 23Oct13 | None | | None | | 2.2.5.3.25[SS+1d]; 2.9.4.4.29[FS]; 2.9.4.3.33[FS]; 2.9.4.4.60.24[FS] | 2.9.4.4.60.26[FS]; 2.9.4.4.30[FS] |
| 2.9.4.4.60.26 | Begin Filling Block 26 | Planned | 0 | 18Mar14 18Mar14 | 11Nov13 11Nov13 | None | | None | | 2.9.4.4.60.25[FS]; 2.9.4.3.34[FS]; 2.9.4.4.31[FS]; 2.2.5.3.26[SS+1d]; 2.9.4.4.30[FS] | 2.9.4.4.60.27[FS]; 2.9.4.4.32[FS] |
| 2.9.4.4.60.27 | Begin Filling Block 27 | Planned | 0 | 02Apr14 02Apr14 | 02Dec13 02Dec13 | None | | None | | 2.9.4.4.60.26[FS]; 2.2.5.3.27[SS+1d]; 2.9.4.3.35[FS]; 2.9.4.4.32[FS] | 2.9.4.4.60.28[FS]; 2.9.4.4.33[FS] |
| 2.9.4.4.60.28 | Begin Filling Block 28 | Planned | 0 | 17Apr14 17Apr14 | 19Dec13 19Dec13 | None | | None | | 2.9.4.4.33[FS]; 2.9.4.4.60.27[FS]; 2.9.2.2.22.8[FS]; 2.9.4.3.36[FS]; 2.2.5.3.28[SS+1d] | 2.9.4.4.34[FS]; 2.9.4.4.60.29[FS] |
| 2.9.4.4.60.29 | Begin Filling Block 29 (OBSOLETE) | Planned | 0 | 02May14 02May14 | 13Jan14 13Jan14 | None | | None | | 2.9.4.4.60.28[FS]; 2.2.5.3.29[SS+1d]; 2.9.4.4.34[FS]; 2.9.4.3.37[FS] | 2.9.4.4.60.30[FS]; 2.9.4.4.35[FS] |
| 2.9.4.4.60.30 | Begin Filling Block 30 (OBSOLETE) | Planned | 0 | 05May14 05May14 | 30Jan14 30Jan14 | None | | None | | 2.2.5.3.30[SS+1d]; 2.9.4.4.35[FF]; 2.9.4.4.60.29[FS]; 2.9.2.2.22.8[FS] | 2.9.4.4.36[SS] |
| 2.9.4.5 | Detector Block Outfitting | In Progress | 572d | 01Feb12 08May14 | 13Feb12 26Mar14 | None | | None | | | |
| 2.9.4.5.0 | Pre-Outfitting Activities For Ash River | In Progress | 508d | 01Feb12 07Feb14 | 13Feb12 19Dec13 | None | | None | | | |
| 2.9.4.5.0.1 | Procure tools and equipment for APD preparation room | Complete | 55d | 01Feb12 01Apr13 | 13Feb12 27Apr12 | None | | None | | 2.9.4.1.20[SS+8d] | 2.9.4.5.0.2[SS+10d] |
| 2.9.4.5.0.2 | Set up APD preparation room | Complete | 65d | 12Mar12 21Aug12 | 02Apr12 02Jul12 | None | | None | | 2.9.4.1.20[FS]; 2.9.4.5.0.1[SS+10d] | 2.9.4.6.35[FS] |
| 2.9.4.5.0.7 | Procure cable and module labels for blocks 1-4 | Complete | 10d | 05Jun12 18Jun12 | 07May12 31May12 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.5.0.8[FS]; 2.9.4.5.1[FS]; 2.9.4.5.110[FS] |
| 2.9.4.5.0.8 | Procure cable and module labels for blocks 5-8 | Complete | 21d | 29Jun12 02Jul12 | 01Jun12 29Jun12 | None | | None | | 2.9.4.5.0.7[FS] | 2.9.4.5.112[FS]; 2.9.4.5.0.9[FS]; 2.9.4.5.3[FS] |
| 2.9.4.5.0.9 | Procure cable and module labels for blocks 9-12 | Complete | 21d | 01Aug12 03Aug12 | 02Jul12 31Jul12 | None | | None | | 2.9.4.5.0.8[FS] | 2.9.4.5.0.10[FS]; 2.9.4.5.114[FS]; 2.9.4.5.5[FS] |
| 2.9.4.5.0.10 | Procure cable and module labels for blocks 13-16 | Complete | 23d | 06Sep12 11Sep12 | 01Aug12 31Aug12 | None | | None | | 2.9.4.5.0.9[FS] | 2.9.4.5.116[FS]; 2.9.4.5.7[FS]; 2.9.4.5.0.11[FS] |
| 2.9.4.5.0.11 | Procure cable and module labels for blocks 17-20 | Complete | 19d | 01Oct12 08Oct12 | 04Sep12 28Sep12 | None | | None | | 2.9.4.5.0.10[FS] | 2.9.4.5.118[FS]; 2.9.4.5.0.12[FS]; 2.9.4.5.9[FS] |
| 2.9.4.5.0.12 | Procure cable and module labels for blocks 21-24 | Complete | 23d | 25Oct12 02Jan13 | 01Oct12 31Oct12 | None | | None | | 2.9.4.5.0.11[FS] | 2.9.4.5.11[FS]; 2.9.4.5.120[FS]; 2.9.4.5.0.13[FS] |
| 2.9.4.5.0.13 | Procure cable and module labels for blocks 25-29 | Complete | 20d | 02Jan13 02Jan13 | 01Nov12 30Nov12 | None | | None | | 2.9.4.5.0.12[FS] | 2.9.4.5.122[FS]; 2.9.4.5.13[FS] |
| 2.9.4.5.0.15 | Install unistrut supports to south wall | Complete | 15d | 01Feb12 16Mar12 | 12Mar12 30Mar12 | None | | None | | 2.9.2.4.2[FF]; 2.9.2.4.2[SS+5d]; 2.9.2.2.23.5[FS] | |
| 2.9.4.5.0.20 | Install unistrut supports for blocks 1-2 | Complete | 15d | 01Feb12 20Feb12 | 13Feb12 02Mar12 | None | | None | | 2.9.2.4.1[SS+5d]; 2.9.2.4.1[FF] | 2.9.4.5.0.21[FS]; 2.9.4.5.1[FS] |
| 2.9.4.5.0.21 | Install unistrut supports for blocks 3-4 | Complete | 10d | 16Aug12 12Oct12 | 23Aug12 06Sep12 | None | | None | | 2.9.4.5.0.20[FS]; 2.9.4.3.4[FS] | 2.9.4.5.0.22[FS]; 2.9.4.5.2[FS] |
| 2.9.4.5.0.22 | Install unistrut supports for blocks 5-6 | Complete | 5d | 10Sep12 15Nov12 | 15Oct12 19Oct12 | None | | None | | 2.9.4.3.6[FS]; 2.9.4.5.0.21[FS] | 2.9.4.5.0.23[FS]; 2.9.4.5.3[FS] |
| 2.9.4.5.0.23 | Install unistrut supports for blocks 7-8 | Complete | 5d | 24Oct12 01Feb13 | 14Nov12 20Nov12 | None | | None | | 2.9.4.3.9[FS]; 2.9.4.5.0.22[FS] | 2.9.4.5.0.24[FS]; 2.9.4.5.4[FS] |
| 2.9.4.5.0.24 | Install unistrut supports for blocks 9-10 | Complete | 5d | 24Oct12 28Feb13 | 18Dec12 26Dec12 | None | | None | | 2.9.4.3.11[FS]; 2.9.4.5.0.23[FS] | 2.9.4.5.0.25[FS]; 2.9.4.5.5[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.5.0.25 | Install unistrut supports for blocks 11-12 | Complete | 5d | 24Oct12 15Mar13 | 24Jan13 30Jan13 | None | | None | | 2.9.4.3.13[FS]; 2.9.4.5.0.24[FS] | 2.9.4.5.0.26[FS]; 2.9.4.5.6[FS] |
| 2.9.4.5.0.26 | Install unistrut supports for blocks 13-14 | Complete | 5d | 24Oct12 20Mar13 | 25Feb13 01Mar13 | None | | None | | 2.9.4.3.16[FS]; 2.9.4.5.0.25[FS] | 2.9.4.5.0.27[FS]; 2.9.4.5.7[FS] |
| 2.9.4.5.0.27 | Install unistrut supports for blocks 15-16 | Complete | 5d | 24Oct12 10Apr13 | 27Mar13 02Apr13 | None | | None | | 2.9.4.5.0.26[FS]; 2.9.4.3.18[FS] | 2.9.4.5.0.28[FS]; 2.9.4.5.8[FS] |
| 2.9.4.5.0.28 | Install unistrut supports for blocks 17-18 | Complete | 5d | 24Oct12 30Apr13 | 02May13 08May13 | None | | None | | 2.9.4.5.0.27[FS]; 2.9.4.3.21[FS] | 2.9.4.5.0.29[FS]; 2.9.4.5.9[FS] |
| 2.9.4.5.0.29 | Install unistrut supports for blocks 19-20 | Complete | 5d | 24Oct12 27May13 | 10Jun13 14Jun13 | None | | None | | 2.9.4.5.0.28[FS]; 2.9.4.3.23[FS] | 2.9.4.5.0.30[FS]; 2.9.4.5.10[FS] |
| 2.9.4.5.0.30 | Install unistrut supports for blocks 21-22 | Complete | 5d | 24Oct12 10Jun13 | 17Jul13 23Jul13 | None | | None | | 2.9.4.5.0.29[FS]; 2.9.4.3.25[FS] | 2.9.4.5.0.31[FS]; 2.9.4.5.11[FS] |
| 2.9.4.5.0.31 | Install unistrut supports for blocks 23-24 | In Progress | 5d | 24Oct12 14Oct13 | 22Aug13 28Aug13 | None | | None | | 2.9.4.5.0.30[FS]; 2.9.4.3.28[FS] | 2.9.4.5.0.32[FS]; 2.9.4.5.12[FS] |
| 2.9.4.5.0.32 | Install unistrut supports for blocks 25-26 | In Progress | 5d | 03Jun13 19Nov13 | 30Sep13 04Oct13 | None | | None | | 2.9.4.5.0.31[FS]; 2.9.4.3.30[FS] | 2.9.4.5.0.33[FS]; 2.9.4.5.13[FS] |
| 2.9.4.5.0.33 | Install unistrut supports for blocks 27-28 | Planned | 5d | 30Dec13 07Jan14 | 05Nov13 11Nov13 | None | | None | | 2.9.4.3.33[FS]; 2.9.4.5.0.32[FS] | 2.9.4.5.0.34[FS]; 2.9.4.5.14[FS] |
| 2.9.4.5.0.34 | Install unistrut supports for blocks 29 (OBSOLETE) | Planned | 1d | 07Feb14 07Feb14 | 13Dec13 19Dec13 | None | | None | | 2.9.4.3.35[FS]; 2.9.4.5.0.33[FS] | 2.9.4.5.15[FS] |
| 2.9.4.5.1 | Outfit blocks 1-2 | Complete | 52d | 01Aug12 01Apr13 | 25Jun12 06Sep12 | None | | None | | 2.7.2.1.2.9.1[FS]; 2.7.2.1.2.9.2[FS]; 2.7.2.3.10[FS]; 2.7.2.4.11[FS]; 2.7.2.5.11[FS]; 2.7.2.6.10[FS]; 2.9.4.3.4[FF+15d]; 2.7.2.7.10[SS+20d]; 2.6.2.7.1[FS]; 2.7.2.2.4[FS]; 2.9.4.5.0.7[FS]; 2.1.5.3.20[FF]; 2.6.1.5.8[FS]; 2.6.1.5.7[FS]; 2.9.2.4.2[FS]; 2.9.4.5.0.20[FS]; 2.1.5.3.16[FS]; 2.9.4.3.3[FS]; 2.6.3.5.7.11[FF]; 2.6.3.5.7.10[FF]; 2.6.3.3.10[FS]; 2.9.4.1.21[FS]; 2.6.3.5.7.8[FF]; 2.7.3.4.1[FS]; 2.6.3.3.12[SS+20d]; 2.6.3.5.7.7[FF]; 2.6.3.5.7.9[FF]; 2.9.4.5.110[FS]; 2.6.1.1.1.4.1[FS] | 2.9.4.5.2[FS]; 2.9.4.6.1[FS]; 2.9.4.5.60[SS+40d]; 2.9.4.6.35[FS]; 2.6.3.6.1[SS-20d]; 2.7.4.3.2[SS]; 2.7.4.3.3[SS]; 2.7.4.3.1[SS]; 2.9.4.6.50.1[FS]; 2.9.4.5.62[FS]; 2.10.9.26[FS]; 2.9.4.5.111[FS] |
| 2.9.4.5.2 | Outfit blocks 3-4 | Complete | 23d | 16Oct12 01Apr13 | 20Sep12 22Oct12 | None | | None | | 2.9.4.5.1[FS]; 2.6.2.7.2[FS]; 2.7.2.2.4[FS]; 2.9.4.5.0.21[FS]; 2.7.3.5.3[FS]; 2.9.4.3.6[FS]; 2.9.4.5.111[FS] | 2.9.4.5.3[FS]; 2.9.4.6.36[FS]; 2.9.4.6.50.2[FS]; 2.9.4.5.63[SS+10d]; 2.9.4.5.112[FS]; 2.9.4.5.65[FS] |
| 2.9.4.5.3 | Outfit blocks 5-6 | Complete | 23d | 14Nov12 30Apr13 | 23Oct12 26Nov12 | None | | None | | 2.9.4.5.2[FS]; 2.6.2.7.3[FS]; 2.9.4.5.0.8[FS]; 2.7.2.2.6.5.2[SS+10d]; 2.9.4.5.0.22[FS]; 2.9.4.5.112[FS]; 2.9.4.3.9[FS] | 2.9.4.5.4[FS]; 2.9.4.5.22[FS]; 2.9.4.6.37[FS]; 2.9.4.5.66[SS+10d]; 2.9.4.6.50.3[FS]; 2.9.4.5.113[FS]; 2.9.4.5.68[FS] |
| 2.9.4.5.4 | Outfit blocks 7-8 | Complete | 23d | 10Jan13 30May13 | 27Nov12 02Jan13 | None | | None | | 2.9.4.5.3[FS]; 2.6.2.7.4[FS]; 2.9.4.5.113[FS]; 2.9.4.5.0.23[FS]; 2.9.4.3.11[FS]; 2.6.1.1.1.4.2[FS] | 2.9.4.5.5[FS]; 2.9.4.5.69[SS+10d]; 2.9.4.5.114[FS]; 2.9.4.6.38[FS]; 2.9.4.6.50.4[FS]; 2.9.4.5.71[FS] |
| 2.9.4.5.5 | Outfit blocks 9-10 | In Progress | 23d | 01Mar13 05Jul13 | 03Jan13 05Feb13 | None | | None | | 2.9.4.5.4[FS]; 2.6.2.7.5[FS]; 2.9.4.5.114[FS]; 2.9.4.5.0.9[FS]; 2.9.4.5.0.24[FS]; 2.9.4.3.13[FS] | 2.9.4.5.74[FS]; 2.9.4.5.6[FS]; 2.9.4.5.72[SS+10d]; 2.9.4.6.50.5[FS]; 2.9.4.5.115[FS]; 2.9.4.5.25[FS]; 2.9.4.6.39[FS] |
| 2.9.4.5.6 | Outfit blocks 11-12 | In Progress | 23d | 15Mar13 06Sep13 | 06Feb13 08Mar13 | None | | None | | 2.9.4.5.5[FS]; 2.6.2.7.6[FS]; 2.9.4.5.0.25[FS]; 2.7.3.4.2[FS]; 2.9.4.5.115[FS]; 2.7.2.5.15[FS]; 2.9.4.3.16[FS] | 2.9.4.5.7[FS]; 2.6.3.6.2[SS-20d]; 2.9.4.5.75[SS+10d]; 2.9.4.6.50.6[FS]; 2.9.4.6.40[FS]; 2.9.4.5.77[FS]; 2.9.4.5.116[FS] |
| 2.9.4.5.7 | Outfit blocks 13-14 | In Progress | 22d | 20Mar13 25Sep13 | 12Mar13 11Apr13 | None | | None | | 2.9.4.5.6[FS]; 2.6.2.7.7[FS]; 2.9.4.5.0.10[FS]; 2.9.4.5.0.26[FS]; 2.9.4.5.116[FS]; 2.9.4.3.18[FS]; 2.6.1.1.1.4.3[FS] | 2.9.4.5.8[FS]; 2.9.4.6.50.7[FS]; 2.9.4.5.78[SS+10d]; 2.9.4.6.41[FS]; 2.9.4.5.80[FS]; 2.9.4.5.117[FS] |
| 2.9.4.5.8 | Outfit blocks 15-16 | In Progress | 22d | 26Apr13 18Oct13 | 17Apr13 17May13 | None | | None | | 2.9.4.5.7[FS]; 2.6.2.7.8[FS]; 2.9.4.5.0.27[FS]; 2.9.4.5.117[FS]; 2.9.4.3.21[FS] | 2.9.4.5.9[FS]; 2.9.4.5.28[FS]; 2.7.2.6.12[FS]; 2.9.4.5.81[SS+10d]; 2.9.4.6.50.8[FS]; 2.9.4.6.42[FS]; 2.9.4.5.118[FS]; 2.9.4.5.83[FS] |
| 2.9.4.5.9 | Outfit blocks 17-18 | In Progress | 22d | 17May13 13Nov13 | 23May13 25Jun13 | None | | None | | 2.9.4.5.0.11[FS]; 2.9.4.5.8[FS]; 2.6.2.7.9[FS]; 2.9.4.5.0.28[FS]; 2.9.4.5.118[FS]; 2.9.4.3.23[FS] | 2.9.4.5.10[FS]; 2.9.4.5.84[SS+10d]; 2.9.4.6.43[FS]; 2.9.4.6.50.9[FS]; 2.9.4.5.119[FS]; 2.9.4.5.86[FS] |
| 2.9.4.5.10 | Outfit blocks 19-20 | In Progress | 22d | 24May13 12Dec13 | 01Jul13 01Aug13 | None | | None | | 2.9.4.5.9[FS]; 2.6.2.7.10[FS]; 2.9.4.5.0.29[FS]; 2.9.4.5.119[FS]; 2.9.4.3.25[FS]; 2.6.1.1.1.4.4[FS] | 2.9.4.5.11[FS]; 2.9.4.6.50.10[FS]; 2.9.4.5.31[FS]; 2.9.4.6.44[FS]; 2.9.4.5.120[FS]; 2.9.4.5.89[FS]; 2.9.4.5.87[SS+10d] |
| 2.9.4.5.11 | Outfit blocks 21-22 | Planned | 22d | 13Dec13 17Jan14 | 07Aug13 09Sep13 | None | | None | | 2.9.4.5.0.12[FS]; 2.9.4.5.10[FS]; 2.6.2.7.11[FS]; 2.9.4.5.0.30[FS]; 2.7.3.4.3[FS]; 2.9.4.5.120[FS]; 2.7.2.5.18[FS]; 2.9.4.3.28[FS] | 2.9.4.5.12[FS]; 2.6.3.6.3[SS-20d]; 2.9.4.5.90[SS+10d]; 2.9.4.6.50.11[FS]; 2.9.4.6.45[FS]; 2.9.4.5.121[FS]; 2.9.4.5.92[FS] |
| 2.9.4.5.12 | Outfit blocks 23-24 | Planned | 22d | 21Jan14 19Feb14 | 13Sep13 15Oct13 | None | | None | | 2.9.4.5.11[FS]; 2.6.2.7.12[FS]; 2.9.4.5.0.31[FS]; 2.9.4.5.121[FS]; 2.9.4.3.30[FS] | 2.9.4.5.13[FS]; 2.9.4.5.93[SS+10d]; 2.9.4.6.50.12[FS]; 2.9.4.6.46[FS]; 2.9.4.5.122[FS]; 2.9.4.5.95[FS] |
| 2.9.4.5.13 | Outfit blocks 25-26 | Planned | 22d | 20Feb14 21Mar14 | 21Oct13 20Nov13 | None | | None | | 2.9.4.5.12[FS]; 2.6.2.7.13[FS]; 2.9.4.5.0.13[FS]; 2.9.4.5.0.32[FS]; 2.9.4.5.122[FS]; 2.9.4.3.33[FS]; 2.6.1.1.1.4.5[FS] | 2.9.4.5.14[FS]; 2.9.4.5.34[FS]; 2.9.4.6.50.13[FS]; 2.9.4.5.96[SS+10d]; 2.9.4.6.47[FS]; 2.9.4.5.123[FS]; 2.9.4.5.98[FS] |
| 2.9.4.5.14 | Outfit blocks 27-28 | Planned | 22d | 24Mar14 22Apr14 | 26Nov13 03Jan14 | None | | None | | 2.9.4.5.13[FS]; 2.6.2.7.14[FS]; 2.9.4.5.0.33[FS]; 2.6.3.3.13[FS]; 2.9.4.5.123[FS]; 2.9.4.3.35[FS] | 2.9.4.5.15[FS]; 2.9.4.6.50.14[FS]; 2.9.4.6.48[FS]; 2.9.4.5.37[FS]; 2.9.4.5.101[FS]; 2.9.4.5.99[SS+10d]; 2.9.4.5.124[FS] |
| 2.9.4.5.15 | Outfit blocks 29-30 (OBSOLETE) | Planned | 1d | 23Apr14 23Apr14 | 06Jan14 30Jan14 | None | | None | | 2.9.4.5.14[FS]; 2.6.3.3.8[FS]; 2.6.2.7.15[FS]; 2.9.4.5.0.34[FS]; 2.9.4.5.124[FS]; 2.9.4.3.37[FS] | 2.9.4.6.50.15[FS]; 2.9.4.5.18[FS]; 2.9.4.6.49[FS]; 2.9.4.5.102[SS]; 2.9.4.5.104[FS] |
| 2.9.4.5.22 | Superblock 1 oufitting completed | Complete | 0 | 30Apr13 30Apr13 | 26Nov12 26Nov12 | None | | None | | 2.9.4.5.3[FS] | 2.9.4.5.25[FS]; 2.9.4.6.5[FS+10d] |
| 2.9.4.5.25 | Superblock 2 outfitting completed | Planned | 0 | 05Jul13 05Jul13 | 05Feb13 05Feb13 | None | | None | | 2.9.4.5.22[FS]; 2.9.4.5.5[FS] | 2.9.4.5.28[FS]; 2.9.4.6.6[FS+10d] |
| 2.9.4.5.28 | Superblock 3 oufitting completed | Planned | 0 | 18Oct13 18Oct13 | 17May13 17May13 | None | | None | | 2.9.4.5.8[FS]; 2.9.4.5.25[FS] | 2.9.4.5.31[FS]; 2.9.4.6.7[FS+10d] |
| 2.9.4.5.31 | Superblock 4 oufitting completed | Planned | 0 | 12Dec13 12Dec13 | 01Aug13 01Aug13 | None | | None | | 2.9.4.5.10[FS]; 2.9.4.5.28[FS] | 2.9.4.5.34[FS]; 2.9.4.6.8[FS+5d] |
| 2.9.4.5.34 | Superblock 5 oufitting completed | Planned | 0 | 21Mar14 21Mar14 | 20Nov13 20Nov13 | None | | None | | 2.9.4.5.13[FS]; 2.9.4.5.31[FS] | 2.9.4.5.37[FS]; 2.9.4.6.9[FS+5d] |
| 2.9.4.5.37 | Superblock 6 outfitting completed | Planned | 0 | 22Apr14 22Apr14 | 14Jan14 14Jan14 | None | | None | | 2.9.4.5.34[FS]; 2.9.4.5.14[FS] | 2.9.4.5.43[FS]; 2.9.4.6.10[FS+5d]; 2.9.4.5.55[FS] |
| 2.9.4.5.43 | Superblock 7 oufitting completed (OBSOLETE) | Planned | 0 | 25Apr14 25Apr14 | 26Mar14 26Mar14 | None | | None | | 2.9.4.5.19[FS]; 2.9.4.5.37[FS] | 2.9.4.5.49[FS] |
| 2.9.4.5.49 | 15 kt installation completed (OBSOLETE) | Planned | 0 | 08May14 08May14 | 26Mar14 26Mar14 | None | | None | | 2.9.4.7.3[FS]; 2.9.4.6.27[FS]; 2.9.4.5.43[FS]; 2.9.4.6.3[FS]; 2.9.4.6.11[FS]; 2.9.4.5.55[FS] | |
| 2.9.4.5.55 | 14 kt installation completed | Planned | 0 | 08May14 08May14 | 16Jan14 16Jan14 | None | | None | | 2.9.4.6.27[FS]; 2.9.4.6.21[FS]; 2.9.4.6.11[FS]; 2.9.4.5.37[FS]; 2.9.4.6.3[FS]; 2.9.4.4.55[FS]; 2.9.4.7.3[FS] | 2.10.9.1[FS]; 2.10.8.3[FS]; 2.9.4.5.49[FS] |
| 2.9.4.5.60 | Blocks 1-2 PDB installed and tested | Complete | 0 | 18Jan13 18Jan13 | 20Aug12 20Aug12 | None | | None | | 2.9.4.5.1[SS+40d] | 2.9.4.5.61[FS+10d]; 2.9.4.5.63[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.5.61 | Blocks 1-2 FEB installed and tested | Complete | 0 | 01Mar13 01Mar13 | 04Sep12 04Sep12 | None | | None | | 2.9.4.5.60[FS+10d] | 2.9.4.5.64[FS]; 2.9.4.5.62[FS] |
| 2.9.4.5.62 | Blocks 1-2 ready for APDs | Complete | 0 | 01Mar13 01Mar13 | 20Sep12 20Sep12 | None | | None | | 2.9.4.5.1[FS]; 2.9.4.5.61[FS]; 2.9.4.4.3[FS] | 2.9.4.5.65[FS]; 2.9.4.6.35[FS]; 2.9.4.6.50.1[FS] |
| 2.9.4.5.63 | Blocks 3-4 PDB installed and tested | Complete | 0 | 17Dec12 17Dec12 | 03Oct12 03Oct12 | None | | None | | 2.9.4.5.60[FS]; 2.9.4.5.2[SS+10d] | 2.9.4.5.66[FS]; 2.9.4.5.64[FS+6d] |
| 2.9.4.5.64 | Blocks 3-4 FEB installed and tested | Complete | 0 | 02Apr13 02Apr13 | 11Oct12 11Oct12 | None | | None | | 2.9.4.5.61[FS]; 2.9.4.5.63[FS+6d] | 2.9.4.5.65[FS]; 2.9.4.5.67[FS] |
| 2.9.4.5.65 | Blocks 3-4 ready for APDs | Complete | 0 | 28Mar13 28Mar13 | 22Oct12 22Oct12 | None | | None | | 2.9.4.5.64[FS]; 2.9.4.4.5[FS]; 2.9.4.5.62[FS]; 2.9.4.5.2[FS] | 2.9.4.6.36[FS]; 2.9.4.5.68[FS]; 2.9.4.6.50.2[FS] |
| 2.9.4.5.66 | Blocks 5-6 PDB installed and tested | Complete | 0 | 18Jan13 18Jan13 | 05Nov12 05Nov12 | None | | None | | 2.9.4.5.3[SS+10d]; 2.9.4.5.63[FS] | 2.9.4.5.67[FS+6d]; 2.9.4.5.69[FS] |
| 2.9.4.5.67 | Blocks 5-6 FEB installed and tested | Complete | 0 | 30Apr13 30Apr13 | 13Nov12 13Nov12 | None | | None | | 2.9.4.5.66[FS+6d]; 2.9.4.5.64[FS] | 2.9.4.5.68[FS]; 2.9.4.5.70[FS] |
| 2.9.4.5.68 | Blocks 5-6 ready for APDs | Complete | 0 | 01May13 01May13 | 26Nov12 26Nov12 | None | | None | | 2.9.4.5.65[FS]; 2.9.4.5.67[FS]; 2.9.4.5.3[FS]; 2.9.4.4.8[FS] | 2.9.4.6.37[FS]; 2.9.4.5.71[FS]; 2.9.4.6.50.3[FS] |
| 2.9.4.5.69 | Blocks 7-8 PDB installed and tested | Complete | 0 | 01Mar13 01Mar13 | 10Dec12 10Dec12 | None | | None | | 2.9.4.5.4[SS+10d]; 2.9.4.5.66[FS] | 2.9.4.5.70[FS+6d]; 2.9.4.5.72[FS] |
| 2.9.4.5.70 | Blocks 7-8 FEB installed and tested | Complete | 0 | 03Jun13 03Jun13 | 18Dec12 18Dec12 | None | | None | | 2.9.4.5.69[FS+6d]; 2.9.4.5.67[FS] | 2.9.4.5.71[FS]; 2.9.4.5.73[FS] |
| 2.9.4.5.71 | Blocks 7-8 ready for APDs | Complete | 0 | 03Jun13 03Jun13 | 02Jan13 02Jan13 | None | | None | | 2.9.4.5.70[FS]; 2.9.4.5.68[FS]; 2.9.4.5.4[FS]; 2.9.4.4.10[FS] | 2.9.4.6.38[FS]; 2.9.4.5.74[FS]; 2.9.4.6.50.4[FS] |
| 2.9.4.5.72 | Blocks 9-10 PDB installed and tested | Complete | 0 | 01Apr13 01Apr13 | 16Jan13 16Jan13 | None | | None | | 2.9.4.5.5[SS+10d]; 2.9.4.5.69[FS] | 2.9.4.5.73[FS+6d]; 2.9.4.5.75[FS] |
| 2.9.4.5.73 | Blocks 9-10 FEB installed and tested | Planned | 0 | 03Jul13 03Jul13 | 25Jan13 25Jan13 | None | | None | | 2.9.4.5.72[FS+6d]; 2.9.4.5.70[FS] | 2.9.4.5.74[FS]; 2.9.4.5.76[FS] |
| 2.9.4.5.74 | Blocks 9-10 ready for APDs | Planned | 0 | 16Jul13 16Jul13 | 05Feb13 05Feb13 | None | | None | | 2.9.4.5.5[FS]; 2.9.4.5.73[FS]; 2.9.4.5.71[FS]; 2.9.4.4.12[FS] | 2.9.4.6.50.5[FS]; 2.9.4.6.39[FS]; 2.9.4.5.77[FS] |
| 2.9.4.5.75 | Blocks 11-12 PDB installed and tested | Complete | 0 | 06May13 06May13 | 19Feb13 19Feb13 | None | | None | | 2.9.4.5.6[SS+10d]; 2.9.4.5.72[FS] | 2.9.4.5.76[FS+6d]; 2.9.4.5.78[FS] |
| 2.9.4.5.76 | Blocks 11-12 FEB installed and tested | Planned | 0 | 05Sep13 05Sep13 | 27Feb13 27Feb13 | None | | None | | 2.9.4.5.75[FS+6d]; 2.9.4.5.73[FS] | 2.9.4.5.77[FS]; 2.9.4.5.79[FS] |
| 2.9.4.5.77 | Blocks 11-12 ready for APDs | Planned | 0 | 06Sep13 06Sep13 | 13Mar13 13Mar13 | None | | None | | 2.9.4.5.76[FS]; 2.9.4.5.74[FS]; 2.9.4.4.15[FS]; 2.9.4.5.6[FS] | 2.9.4.6.50.6[FS]; 2.9.4.5.80[FS]; 2.9.4.6.40[FS] |
| 2.9.4.5.78 | Blocks 13-14 PDB installed and tested | Complete | 0 | 17Jun13 17Jun13 | 25Mar13 25Mar13 | None | | None | | 2.9.4.5.7[SS+10d]; 2.9.4.5.75[FS] | 2.9.4.5.79[FS+6d]; 2.9.4.5.81[FS] |
| 2.9.4.5.79 | Blocks 13-14 FEB installed and tested | Planned | 0 | 09Sep13 09Sep13 | 02Apr13 02Apr13 | None | | None | | 2.9.4.5.78[FS+6d]; 2.9.4.5.76[FS] | 2.9.4.5.80[FS]; 2.9.4.5.82[FS] |
| 2.9.4.5.80 | Blocks 13-14 ready for APDs | Planned | 0 | 25Sep13 25Sep13 | 18Apr13 18Apr13 | None | | None | | 2.9.4.5.79[FS]; 2.9.4.5.77[FS]; 2.9.4.4.17[FS]; 2.9.4.5.7[FS] | 2.9.4.6.50.7[FS]; 2.9.4.5.83[FS]; 2.9.4.6.41[FS] |
| 2.9.4.5.81 | Blocks 15-16 PDB installed and tested | Planned | 0 | 26Sep13 26Sep13 | 30Apr13 30Apr13 | None | | None | | 2.9.4.5.8[SS+10d]; 2.9.4.5.78[FS] | 2.9.4.5.82[FS+6d]; 2.9.4.5.84[FS] |
| 2.9.4.5.82 | Blocks 15-16 FEB installed and tested | Planned | 0 | 03Oct13 03Oct13 | 08May13 08May13 | None | | None | | 2.9.4.5.81[FS+6d]; 2.9.4.5.79[FS] | 2.9.4.5.83[FS]; 2.9.4.5.85[FS] |
| 2.9.4.5.83 | Blocks 15-16 ready for APDs | Planned | 0 | 18Oct13 18Oct13 | 24May13 24May13 | None | | None | | 2.9.4.4.20[FS]; 2.9.4.5.82[FS]; 2.9.4.5.80[FS]; 2.9.4.5.8[FS] | 2.9.4.5.86[FS]; 2.9.4.6.50.8[FS]; 2.9.4.6.42[FS] |
| 2.9.4.5.84 | Blocks 17-18 PDB installed and tested | Planned | 0 | 21Oct13 21Oct13 | 06Jun13 06Jun13 | None | | None | | 2.9.4.5.9[SS+10d]; 2.9.4.5.81[FS] | 2.9.4.5.85[FS+6d]; 2.9.4.5.87[FS] |
| 2.9.4.5.85 | Blocks 17-18 FEB installed and tested | Planned | 0 | 28Oct13 28Oct13 | 14Jun13 14Jun13 | None | | None | | 2.9.4.5.84[FS+6d]; 2.9.4.5.82[FS] | 2.9.4.5.88[FS]; 2.9.4.5.86[FS] |
| 2.9.4.5.86 | Blocks 17-18 ready for APDs | Planned | 0 | 19Nov13 19Nov13 | 02Jul13 02Jul13 | None | | None | | 2.9.4.4.22[FS]; 2.9.4.5.83[FS]; 2.9.4.5.85[FS]; 2.9.4.5.9[FS] | 2.9.4.6.50.9[FS]; 2.9.4.5.89[FS]; 2.9.4.6.43[FS] |
| 2.9.4.5.87 | Blocks 19-20 PDB installed and tested | Planned | 0 | 14Nov13 14Nov13 | 15Jul13 15Jul13 | None | | None | | 2.9.4.5.84[FS]; 2.9.4.5.10[SS+10d] | 2.9.4.5.90[FS]; 2.9.4.5.88[FS+6d] |
| 2.9.4.5.88 | Blocks 19-20 FEB installed and tested | Planned | 0 | 21Nov13 21Nov13 | 23Jul13 23Jul13 | None | | None | | 2.9.4.5.85[FS]; 2.9.4.5.87[FS+6d] | 2.9.4.5.91[FS]; 2.9.4.5.89[FS] |
| 2.9.4.5.89 | Blocks 19-20 ready for APDs | Planned | 0 | 23Dec13 23Dec13 | 08Aug13 08Aug13 | None | | None | | 2.9.4.4.24[FS]; 2.9.4.5.86[FS]; 2.9.4.5.88[FS]; 2.9.4.5.10[FS] | 2.9.4.5.92[FS]; 2.9.4.6.50.10[FS]; 2.9.4.6.44[FS] |
| 2.9.4.5.90 | Blocks 21-22 PDB installed and tested | Planned | 0 | 30Dec13 30Dec13 | 20Aug13 20Aug13 | None | | None | | 2.9.4.5.11[SS+10d]; 2.9.4.5.87[FS] | 2.9.4.5.91[FS+6d]; 2.9.4.5.93[FS] |
| 2.9.4.5.91 | Blocks 21-22 FEB installed and tested | Planned | 0 | 09Jan14 09Jan14 | 28Aug13 28Aug13 | None | | None | | 2.9.4.5.90[FS+6d]; 2.9.4.5.88[FS] | 2.9.4.5.92[FS]; 2.9.4.5.94[FS] |
| 2.9.4.5.92 | Blocks 21-22 ready for APDs | Planned | 0 | 29Jan14 29Jan14 | 16Sep13 16Sep13 | None | | None | | 2.9.4.5.91[FS]; 2.9.4.5.89[FS]; 2.9.4.5.11[FS]; 2.9.4.4.27[FS] | 2.9.4.5.95[FS]; 2.9.4.6.50.11[FS]; 2.9.4.6.45[FS] |
| 2.9.4.5.93 | Blocks 23-24 PDB installed and tested | Planned | 0 | 03Feb14 03Feb14 | 26Sep13 26Sep13 | None | | None | | 2.9.4.5.12[SS+10d]; 2.9.4.5.90[FS] | 2.9.4.5.94[FS+6d]; 2.9.4.5.96[FS] |
| 2.9.4.5.94 | Blocks 23-24 FEB installed and tested | Planned | 0 | 11Feb14 11Feb14 | 04Oct13 04Oct13 | None | | None | | 2.9.4.5.93[FS+6d]; 2.9.4.5.91[FS] | 2.9.4.5.95[FS]; 2.9.4.5.97[FS] |
| 2.9.4.5.95 | Blocks 23-24 ready for APDs | Planned | 0 | 28Feb14 28Feb14 | 22Oct13 22Oct13 | None | | None | | 2.9.4.4.29[FS]; 2.9.4.5.94[FS]; 2.9.4.5.92[FS]; 2.9.4.5.12[FS] | 2.9.4.5.98[FS]; 2.9.4.6.46[FS]; 2.9.4.6.50.12[FS] |
| 2.9.4.5.96 | Blocks 25-26 PDB installed and tested | Planned | 0 | 05Mar14 05Mar14 | 01Nov13 01Nov13 | None | | None | | 2.9.4.5.13[SS+10d]; 2.9.4.5.93[FS] | 2.9.4.5.97[FS+6d]; 2.9.4.5.99[FS] |
| 2.9.4.5.97 | Blocks 25-26 FEB installed and tested | Planned | 0 | 13Mar14 13Mar14 | 11Nov13 11Nov13 | None | | None | | 2.9.4.5.96[FS+6d]; 2.9.4.5.94[FS] | 2.9.4.5.98[FS]; 2.9.4.5.100[FS] |
| 2.9.4.5.98 | Blocks 25-26 ready for APDs | Planned | 0 | 01Apr14 01Apr14 | 27Nov13 27Nov13 | None | | None | | 2.9.4.4.32[FS]; 2.9.4.5.97[FS]; 2.9.4.5.95[FS]; 2.9.4.5.13[FS] | 2.9.4.5.101[FS]; 2.9.4.6.50.13[FS]; 2.9.4.6.47[FS] |
| 2.9.4.5.99 | Blocks 27-28 PDB installed and tested | Planned | 0 | 04Apr14 04Apr14 | 11Dec13 11Dec13 | None | | None | | 2.9.4.5.96[FS]; 2.9.4.5.14[SS+10d] | 2.9.4.5.100[FS+6d]; 2.9.4.5.102[FS] |
| 2.9.4.5.100 | Blocks 27-28 FEB installed and tested | Planned | 0 | 14Apr14 14Apr14 | 19Dec13 19Dec13 | None | | None | | 2.9.4.5.99[FS+6d]; 2.9.4.5.97[FS] | 2.9.4.5.101[FS]; 2.9.4.5.103[FS] |
| 2.9.4.5.101 | Blocks 27-28 ready for APDs | Planned | 0 | 01May14 01May14 | 10Jan14 10Jan14 | None | | None | | 2.9.4.5.100[FS]; 2.9.4.5.98[FS]; 2.9.4.4.34[FS]; 2.9.4.5.14[FS] | 2.9.4.5.104[FS]; 2.9.4.6.48[FS]; 2.9.4.6.50.14[FS] |
| 2.9.4.5.102 | Blocks 29-30 PDB installed and tested (OBSOLETE) | Planned | 0 | 23Apr14 23Apr14 | 17Jan14 17Jan14 | None | | None | | 2.9.4.5.99[FS]; 2.9.4.5.15[SS] | 2.9.4.5.103[FS] |
| 2.9.4.5.103 | Blocks 29-30 FEB installed and tested (OBSOLETE) | Planned | 0 | 23Apr14 23Apr14 | 28Jan14 28Jan14 | None | | None | | 2.9.4.5.102[FS]; 2.9.4.5.100[FS] | 2.9.4.5.104[FS] |
| 2.9.4.5.104 | Blocks 29-30 ready for APDs (OBSOLETE) | Planned | 0 | 05May14 05May14 | 31Jan14 31Jan14 | None | | None | | 2.9.4.5.101[FS]; 2.9.4.5.103[FS]; 2.9.4.4.36[FS]; 2.9.4.5.15[FS] | 2.9.4.6.49[FS]; 2.9.4.6.50.15[FS] |
| 2.9.4.5.110 | Start Outfitting Blocks 01-02 | Complete | 0 | 01Aug12 01Aug12 | 25Jun12 25Jun12 | None | | None | | 2.7.2.2.4[FS]; 2.7.2.7.10[SS+20d]; 2.9.4.5.0.7[FS]; 2.9.4.1.21[FS]; 2.7.3.4.1[FS]; 2.7.2.1.2.9.1[FS]; 2.6.3.3.12[SS+20d]; 2.7.2.3.10[FS]; 2.7.2.5.11[FS]; 2.7.2.4.11[FS]; 2.7.2.1.2.9.2[FS]; 2.7.2.6.10[FS]; 2.6.2.7.1[FS]; 2.6.1.1.1.4.1[FS]; 2.6.1.5.7[FS]; 2.6.1.5.8[FS]; 2.9.4.3.3[FS]; 2.6.3.3.10[FS] | 2.9.4.5.111[FS]; 2.9.4.5.1[FS] |
| 2.9.4.5.111 | Start Outfitting Blocks 03-04 | Complete | 0 | 16Oct12 16Oct12 | 20Sep12 20Sep12 | None | | None | | 2.9.4.5.110[FS]; 2.6.2.7.2[FS]; 2.9.4.5.1[FS]; 2.9.4.3.6[FS]; 2.7.3.5.3[FS] | 2.9.4.5.112[FS]; 2.9.4.5.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.5.112 | Start Outfitting Blocks 05-06 | Complete | 0 | 14Nov12 14Nov12 | 23Oct12 23Oct12 | None | | None | | 2.9.4.5.0.8[FS]; 2.6.2.7.3[FS]; 2.9.4.3.9[FS]; 2.9.4.5.2[FS]; 2.9.4.5.111[FS] | 2.9.4.5.113[FS]; 2.9.4.5.3[FS] |
| 2.9.4.5.113 | Start Outfitting Blocks 07-08 | Complete | 0 | 10Jan13 10Jan13 | 27Nov12 27Nov12 | None | | None | | 2.6.1.1.1.4.2[FS]; 2.9.4.3.11[FS]; 2.6.2.7.4[FS]; 2.9.4.5.3[FS]; 2.9.4.5.112[FS] | 2.9.4.5.4[FS]; 2.9.4.5.114[FS] |
| 2.9.4.5.114 | Start Outfitting Blocks 09-10 | Complete | 0 | 01Mar13 01Mar13 | 03Jan13 03Jan13 | None | | None | | 2.9.4.3.13[FS]; 2.6.2.7.5[FS]; 2.9.4.5.4[FS]; 2.9.4.5.0.9[FS]; 2.9.4.5.113[FS] | 2.9.4.5.5[FS]; 2.9.4.5.115[FS] |
| 2.9.4.5.115 | Start Outfitting Blocks 11-12 | Complete | 0 | 15Mar13 15Mar13 | 06Feb13 06Feb13 | None | | None | | 2.9.4.5.5[FS]; 2.7.3.4.2[FS]; 2.9.4.5.114[FS]; 2.9.4.3.16[FS]; 2.7.2.5.15[FS]; 2.6.2.7.6[FS] | 2.9.4.5.116[FS]; 2.9.4.5.6[FS] |
| 2.9.4.5.116 | Start Outfitting Blocks 13-14 | Complete | 0 | 20Mar13 20Mar13 | 12Mar13 12Mar13 | None | | None | | 2.9.4.5.0.10[FS]; 2.6.1.1.1.4.3[FS]; 2.9.4.5.115[FS]; 2.9.4.3.18[FS]; 2.9.4.5.6[FS]; 2.6.2.7.7[FS] | 2.9.4.5.117[FS]; 2.9.4.5.7[FS] |
| 2.9.4.5.117 | Start Outfitting Blocks 15-16 | Complete | 0 | 15Apr13 15Apr13 | 17Apr13 17Apr13 | None | | None | | 2.9.4.5.116[FS]; 2.9.4.3.21[FS]; 2.9.4.5.7[FS]; 2.6.2.7.8[FS] | 2.9.4.5.118[FS]; 2.9.4.5.8[FS] |
| 2.9.4.5.118 | Start Outfitting Blocks 17-18 | Complete | 0 | 22Apr13 22Apr13 | 23May13 23May13 | None | | None | | 2.9.4.5.0.11[FS]; 2.6.2.7.9[FS]; 2.9.4.5.117[FS]; 2.9.4.3.23[FS]; 2.9.4.5.8[FS] | 2.9.4.5.9[FS]; 2.9.4.5.119[FS] |
| 2.9.4.5.119 | Start Outfitting Blocks 19-20 | Complete | 0 | 24May13 24May13 | 01Jul13 01Jul13 | None | | None | | 2.6.2.7.10[FS]; 2.6.1.1.1.4.4[FS]; 2.9.4.5.9[FS]; 2.9.4.3.25[FS]; 2.9.4.5.118[FS] | 2.9.4.5.10[FS]; 2.9.4.5.120[FS] |
| 2.9.4.5.120 | Start Outfitting Blocks 21-22 | Planned | 0 | 13Dec13 13Dec13 | 07Aug13 07Aug13 | None | | None | | 2.9.4.5.0.12[FS]; 2.6.2.7.11[FS]; 2.9.4.5.10[FS]; 2.7.3.4.3[FS]; 2.9.4.5.119[FS]; 2.9.4.3.28[FS]; 2.7.2.5.18[FS] | 2.9.4.5.11[FS]; 2.9.4.5.121[FS] |
| 2.9.4.5.121 | Start Outfitting Blocks 23-24 | Planned | 0 | 21Jan14 21Jan14 | 13Sep13 13Sep13 | None | | None | | 2.9.4.5.11[FS]; 2.9.4.3.30[FS]; 2.6.2.7.12[FS]; 2.9.4.5.120[FS] | 2.9.4.5.122[FS]; 2.9.4.5.12[FS] |
| 2.9.4.5.122 | Start Outfitting Blocks 25-26 | Planned | 0 | 20Feb14 20Feb14 | 21Oct13 21Oct13 | None | | None | | 2.9.4.5.0.13[FS]; 2.6.1.1.1.4.5[FS]; 2.9.4.3.33[FS]; 2.9.4.5.121[FS]; 2.9.4.5.12[FS]; 2.6.2.7.13[FS] | 2.9.4.5.13[FS]; 2.9.4.5.123[FS] |
| 2.9.4.5.123 | Start Outfitting Blocks 27-28 | Planned | 0 | 24Mar14 24Mar14 | 26Nov13 26Nov13 | None | | None | | 2.6.3.3.13[FS]; 2.9.4.5.13[FS]; 2.9.4.5.122[FS]; 2.6.2.7.14[FS]; 2.9.4.3.35[FS] | 2.9.4.5.124[FS]; 2.9.4.5.14[FS] |
| 2.9.4.5.124 | Start Outfitting Blocks 29-30 (OBSOLETE) | Planned | 0 | 23Apr14 23Apr14 | 06Jan14 06Jan14 | None | | None | | 2.9.4.5.123[FS]; 2.9.4.5.14[FS]; 2.6.2.7.15[FS]; 2.9.4.3.37[FS]; 2.6.3.3.8[FS] | 2.9.4.5.15[FS] |
| 2.9.4.6 | Detector Turn-on and Checkout | In Progress | 386d | 10Dec12 24Jun14 | 21Sep12 12Mar14 | None | | None | | | |
| 2.9.4.6.1 | Operations review: intial readout system use. | Complete | 5d | 04Feb13 26Feb13 | 02Oct12 08Oct12 | None | | None | | 2.1.5.3.14.2[FS]; 2.1.5.3.14.1[FS]; 2.9.4.5.1[FS]; 2.9.4.6.35[SS+7d]; 2.7.2.9[FS] | 2.9.4.6.2[FS]; 2.9.4.6.5[FS] |
| 2.9.4.6.2 | Checkout block 1 photodetector and readout system | Complete | 10d | 26Feb13 21May13 | 09Oct12 22Oct12 | None | | None | | 2.9.4.6.1[FS] | 2.9.4.6.3[FS] |
| 2.9.4.6.3 | First cosmic ray tracks observed in Far Detector | Complete | 0 | 27Feb13 27Feb13 | 06Nov12 06Nov12 | None | | None | | 2.9.4.6.2[FS]; 2.9.4.6.35[FS] | 2.9.4.6.5[FS]; 2.9.4.5.49[FS]; 2.9.4.5.55[FS] |
| 2.9.4.6.5 | Readout cosmic tracks in Superblock 1 | Planned | 10d | 29Aug13 12Sep13 | 08Jan13 22Jan13 | None | | None | | 2.9.4.6.37[FS]; 2.7.3.6.10[FS]; 2.9.4.6.3[FS]; 2.9.4.6.1[FS]; 2.9.4.5.22[FS+10d] | 2.9.4.6.11[FS]; 2.9.4.6.21[FS]; 2.9.4.6.6[FS] |
| 2.9.4.6.6 | Readout cosmic tracks in Superblock 2 | Planned | 5d | 04Oct13 10Oct13 | 13Mar13 19Mar13 | None | | None | | 2.9.4.6.39[FS]; 2.9.4.5.25[FS+10d]; 2.9.4.6.5[FS] | 2.9.4.6.12[FS]; 2.9.4.6.22[FS]; 2.9.4.6.7[FS] |
| 2.9.4.6.7 | Readout cosmic tracks in Superblock 3 | Planned | 5d | 06Jan14 10Jan14 | 02Jul13 09Jul13 | None | | None | | 2.9.4.6.42[FS]; 2.9.4.5.28[FS+10d]; 2.9.4.6.6[FS] | 2.9.4.6.13[FS]; 2.9.4.6.23[FS]; 2.9.4.6.8[FS] |
| 2.9.4.6.8 | Readout cosmic tracks in Superblock 4 | Planned | 2d | 04Mar14 05Mar14 | 16Sep13 17Sep13 | None | | None | | 2.9.4.6.44[FS]; 2.9.4.6.7[FS]; 2.9.4.5.31[FS+5d] | 2.9.4.6.14[FS]; 2.9.4.6.24[FS]; 2.9.4.6.9[FS] |
| 2.9.4.6.9 | Readout cosmic tracks in Superblock 5 | Planned | 2d | 13May14 14May14 | 10Jan14 13Jan14 | None | | None | | 2.9.4.6.47[FS]; 2.9.4.6.8[FS]; 2.9.4.5.34[FS+5d] | 2.9.4.6.15[FS]; 2.9.4.6.25[FS]; 2.9.4.6.10[FS] |
| 2.9.4.6.10 | Readout cosmic tracks in Superblock 6 | Planned | 2d | 15May14 16May14 | 18Feb14 19Feb14 | None | | None | | 2.9.4.6.47[FS]; 2.9.4.5.37[FS+5d]; 2.9.4.6.9[FS] | 2.9.4.6.26[SS]; 2.9.4.6.16[FS] |
| 2.9.4.6.11 | First cosmic ray tracks observed in Superblock 1 | Planned | 0 | 12Sep13 12Sep13 | 22Jan13 22Jan13 | None | | None | | 2.9.4.6.5[FS] | 2.9.4.5.49[FS]; 2.9.4.5.55[FS]; 2.9.4.6.27[FS]; 2.9.4.6.12[FS] |
| 2.9.4.6.12 | First cosmic ray tracks observed in Superblock 2 | Planned | 0 | 10Oct13 10Oct13 | 19Mar13 19Mar13 | None | | None | | 2.9.4.6.6[FS]; 2.9.4.6.11[FS] | 2.9.4.6.28[FS]; 2.9.4.6.13[FS] |
| 2.9.4.6.13 | First cosmic ray tracks observed in Superblock 3 | Planned | 0 | 10Jan14 10Jan14 | 09Jul13 09Jul13 | None | | None | | 2.9.4.6.12[FS]; 2.9.4.6.7[FS] | 2.9.4.6.29[FS]; 2.9.4.6.14[FS] |
| 2.9.4.6.14 | First cosmic ray tracks observed in Superblock 4 | Planned | 0 | 05Mar14 05Mar14 | 17Sep13 17Sep13 | None | | None | | 2.7.2.8.1[FS]; 2.7.3.2.3[FS]; 2.9.4.6.8[FS]; 2.9.4.6.13[FS] | 2.9.4.6.15[FS]; 2.9.4.6.30[FS] |
| 2.9.4.6.15 | First cosmic ray tracks observed in Superblock 5 | Planned | 0 | 14May14 14May14 | 13Jan14 13Jan14 | None | | None | | 2.9.4.6.14[FS]; 2.9.4.6.9[FS] | 2.9.4.6.16[FS]; 2.9.4.6.31[FS] |
| 2.9.4.6.16 | First cosmic ray tracks observed in Superblock 6 | Planned | 0 | 16May14 16May14 | 19Feb14 19Feb14 | None | | None | | 2.9.4.6.15[FS]; 2.9.4.6.10[FS] | 2.9.4.6.32[FS] |
| 2.9.4.6.21 | Read out neutrino event in Superblock 1 | Planned | 15d | 13Sep13 03Oct13 | 23Jan13 12Feb13 | None | | None | | 2.9.4.6.5[FS] | 2.9.4.5.55[FS]; 2.9.4.6.27[FS]; 2.9.4.6.22[FS] |
| 2.9.4.6.22 | Read out neutrino event in Superblock 2 | Planned | 15d | 11Oct13 31Oct13 | 20Mar13 09Apr13 | None | | None | | 2.9.4.6.21[FS]; 2.9.4.6.6[FS] | 2.9.4.6.28[FS]; 2.9.4.6.23[FS] |
| 2.9.4.6.23 | Read out neutrino event in Superblock 3 | Planned | 15d | 13Jan14 03Feb14 | 10Jul13 30Jul13 | None | | None | | 2.9.4.6.22[FS]; 2.9.4.6.7[FS] | 2.9.4.6.29[FS]; 2.9.4.6.24[FS] |
| 2.9.4.6.24 | Read out neutrino event in Superblock 4 | Planned | 15d | 06Mar14 26Mar14 | 18Sep13 08Oct13 | None | | None | | 2.10.10.8[FS]; 2.9.4.6.8[FS]; 2.9.4.6.23[FS] | 2.9.4.6.30[FS]; 2.9.4.6.25[FS] |
| 2.9.4.6.25 | Read out neutrino event in Superblock 5 | Planned | 10d | 15May14 29May14 | 14Jan14 28Jan14 | None | | None | | 2.10.10.8[FS]; 2.9.4.6.9[FS]; 2.9.4.6.24[FS] | 2.9.4.6.31[FS]; 2.9.4.6.26[FS] |
| 2.9.4.6.26 | Read out neutrino event in Superblock 6 | Planned | 10d | 11Jun14 24Jun14 | 27Feb14 12Mar14 | None | | None | | 2.9.4.6.10[SS]; 2.9.4.6.48[FS]; 2.9.4.6.25[FS] | 2.9.4.6.32[FS] |
| 2.9.4.6.27 | NuMI neutrino event observed in Superblock 1 | Planned | 0 | 03Oct13 03Oct13 | 01Oct13 01Oct13 | None | | None | | 2.9.4.6.21[FS]; 2.9.4.6.11[FS] | 2.9.4.5.55[FS]; 2.9.4.5.49[FS]; 2.9.4.6.28[FS] |
| 2.9.4.6.28 | NuMI neutrino event observed in Superblock 2 | Planned | 0 | 31Oct13 31Oct13 | 09Apr13 09Apr13 | None | | None | | 2.9.4.6.22[FS]; 2.9.4.6.12[FS]; 2.9.4.6.27[FS] | 2.9.4.6.29[FS] |
| 2.9.4.6.29 | NuMI neutrino event observed in Superblock 3 | Planned | 0 | 03Feb14 03Feb14 | 30Jul13 30Jul13 | None | | None | | 2.9.4.6.23[FS]; 2.9.4.6.28[FS]; 2.9.4.6.13[FS] | 2.9.4.6.30[FS] |
| 2.9.4.6.30 | NuMI neutrino event observed in Superblock 4 | Planned | 0 | 26Mar14 26Mar14 | 08Oct13 08Oct13 | None | | None | | 2.9.4.6.29[FS]; 2.9.4.6.24[FS]; 2.9.4.6.14[FS] | 2.9.4.6.31[FS] |
| 2.9.4.6.31 | NuMI neutrino event observed in Superblock 5 | Planned | 0 | 29May14 29May14 | 28Jan14 28Jan14 | None | | None | | 2.9.4.6.25[FS]; 2.9.4.6.30[FS]; 2.9.4.6.15[FS] | 2.9.4.6.32[FS] |
| 2.9.4.6.32 | NuMI neutrino event observed in Superblock 6 | Planned | 0 | 24Jun14 24Jun14 | 12Mar14 12Mar14 | None | | None | | 2.9.4.6.26[FS]; 2.9.4.6.31[FS]; 2.9.4.6.16[FS] | 2.10.8.3[FS]; 2.10.9.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.6.35 | Install and checkout APDs - Blocks 1-2 | Complete | 33d | 25Feb13 21May13 | 21Sep12 06Nov12 | None | | None | | 2.6.1.5.17.4[FS]; 2.9.4.5.1[FS]; 2.9.4.4.3[FS]; 2.9.4.5.62[FS]; 2.9.4.6.50.1[FS]; 2.9.4.5.0.2[FS]; 2.6.1.4.2[FF+5d]; 2.6.1.5.14[FS]; 2.9.4.1.20[FS] | 2.9.4.6.36[FS-6d]; 2.9.4.6.3[FS]; 2.10.9.26[FS]; 2.9.4.6.50.2[FS-6d]; 2.9.4.6.1[SS+7d] |
| 2.9.4.6.36 | Install and checkout APDs - Blocks 3-4 | In Progress | 25d | 15May13 05Jul13 | 30Oct12 05Dec12 | None | | None | | 2.9.4.6.35[FS-6d]; 2.9.4.4.5[FS]; 2.9.4.5.2[FS]; 2.9.4.5.65[FS]; 2.9.4.6.50.2[FS]; 2.6.1.4.4[FF+5d] | 2.9.4.6.37[FS-6d]; 2.9.4.6.50.3[FS-6d] |
| 2.9.4.6.37 | Install and checkout APDs - Blocks 5-6 | Planned | 25d | 08Jul13 09Aug13 | 28Nov12 07Jan13 | None | | None | | 2.9.4.6.36[FS-6d]; 2.9.4.5.3[FS]; 2.9.4.4.8[FS]; 2.9.4.5.68[FS]; 2.9.4.6.50.3[FS]; 2.6.1.4.6[FF+5d] | 2.9.4.6.5[FS]; 2.9.4.6.38[FS-6d]; 2.9.4.6.50.4[FS-6d] |
| 2.9.4.6.38 | Install and checkout APDs - Blocks 7-8 | Planned | 25d | 02Aug13 06Sep13 | 03Jan13 07Feb13 | None | | None | | 2.9.4.6.37[FS-6d]; 2.9.4.4.10[FS]; 2.9.4.5.71[FS]; 2.9.4.5.4[FS]; 2.9.4.6.50.4[FS]; 2.6.1.4.8[FF+5d] | 2.9.4.6.39[FS-6d]; 2.9.4.6.50.5[FS-6d] |
| 2.9.4.6.39 | Install and checkout APDs - Blocks 9-10 | Planned | 25d | 29Aug13 03Oct13 | 06Feb13 12Mar13 | None | | None | | 2.9.4.6.38[FS-6d]; 2.9.4.6.50.5[FS]; 2.9.4.5.74[FS]; 2.9.4.5.5[FS]; 2.9.4.4.12[FS]; 2.6.1.4.10[FF+5d] | 2.9.4.6.6[FS]; 2.9.4.6.50.6[FS-6d]; 2.9.4.6.40[FS-6d] |
| 2.9.4.6.40 | Install and checkout APDs - Blocks 11-12 | Planned | 25d | 27Sep13 31Oct13 | 14Mar13 17Apr13 | None | | None | | 2.9.4.6.39[FS-6d]; 2.9.4.6.50.6[FS]; 2.9.4.5.77[FS]; 2.9.4.5.6[FS]; 2.9.4.4.15[FS]; 2.6.1.4.12[FF+5d] | 2.9.4.6.50.7[FS-6d]; 2.9.4.6.41[FS-6d] |
| 2.9.4.6.41 | Install and checkout APDs - Blocks 13-14 | Planned | 25d | 25Oct13 02Dec13 | 19Apr13 23May13 | None | | None | | 2.9.4.6.40[FS-6d]; 2.9.4.5.80[FS]; 2.9.4.6.50.7[FS]; 2.6.1.4.14[FF+5d]; 2.9.4.4.17[FS]; 2.9.4.5.7[FS] | 2.9.4.6.50.8[FS-6d]; 2.9.4.6.42[FS-6d] |
| 2.9.4.6.42 | Install and checkout APDs - Blocks 15-16 | Planned | 25d | 22Nov13 03Jan14 | 28May13 01Jul13 | None | | None | | 2.9.4.6.50.8[FS]; 2.9.4.6.41[FS-6d]; 2.9.4.5.83[FS]; 2.6.1.4.16[FF+5d]; 2.9.4.4.20[FS]; 2.9.4.5.8[FS] | 2.9.4.6.7[FS]; 2.9.4.6.43[FS-6d]; 2.9.4.6.50.9[FS-6d] |
| 2.9.4.6.43 | Install and checkout APDs - Blocks 17-18 | Planned | 25d | 26Dec13 03Feb14 | 03Jul13 07Aug13 | None | | None | | 2.9.4.6.42[FS-6d]; 2.9.4.6.50.9[FS]; 2.9.4.4.22[FS]; 2.9.4.5.9[FS]; 2.9.4.5.86[FS]; 2.6.1.4.18[FF+5d] | 2.9.4.6.44[FS-6d]; 2.9.4.6.50.10[FS-6d] |
| 2.9.4.6.44 | Install and checkout APDs - Blocks 19-20 | Planned | 25d | 28Jan14 03Mar14 | 09Aug13 13Sep13 | None | | None | | 2.9.4.6.43[FS-6d]; 2.9.4.6.50.10[FS]; 2.9.4.5.89[FS]; 2.9.4.4.24[FS]; 2.9.4.5.10[FS]; 2.6.1.4.20[FF+5d] | 2.9.4.6.8[FS]; 2.9.4.6.45[FS-6d]; 2.9.4.6.50.11[FS-6d] |
| 2.9.4.6.45 | Install and checkout APDs - Blocks 21-22 | Planned | 25d | 25Feb14 31Mar14 | 17Sep13 21Oct13 | None | | None | | 2.9.4.6.44[FS-6d]; 2.9.4.5.92[FS]; 2.9.4.5.11[FS]; 2.9.4.4.27[FS]; 2.9.4.6.50.11[FS]; 2.6.1.4.22[FF+5d] | 2.9.4.6.46[FS-6d]; 2.9.4.6.50.12[FS-6d] |
| 2.9.4.6.46 | Install and checkout APDs - Blocks 23-24 | Planned | 25d | 25Mar14 28Apr14 | 23Oct13 26Nov13 | None | | None | | 2.9.4.6.45[FS-6d]; 2.9.4.5.95[FS]; 2.9.4.6.50.12[FS]; 2.9.4.4.29[FS]; 2.9.4.5.12[FS]; 2.6.1.4.24[FF+5d] | 2.9.4.6.47[FS-6d]; 2.9.4.6.50.13[FS-6d] |
| 2.9.4.6.47 | Install and checkout APDs - Blocks 25-26 | Planned | 15d | 22Apr14 12May14 | 02Dec13 09Jan14 | None | | None | | 2.9.4.6.46[FS-6d]; 2.9.4.5.13[FS]; 2.9.4.4.32[FS]; 2.9.4.5.98[FS]; 2.9.4.6.50.13[FS]; 2.6.1.4.26[FF+5d] | 2.9.4.6.48[FS-6d]; 2.9.4.6.9[FS]; 2.9.4.6.50.14[FS-6d]; 2.9.4.6.10[FS] |
| 2.9.4.6.48 | Install and checkout APDs - Blocks 27-28 | Planned | 15d | 20May14 10Jun14 | 13Jan14 17Feb14 | None | | None | | 2.9.4.6.47[FS-6d]; 2.9.4.5.101[FS]; 2.9.4.4.34[FS]; 2.9.4.6.50.14[FS]; 2.9.4.5.14[FS]; 2.6.1.4.28[FF+5d] | 2.9.4.6.50.15[FS-6d]; 2.9.4.6.26[FS]; 2.9.4.6.49[FS-6d] |
| 2.9.4.6.49 | Install and checkout APDs - Blocks 29-30 (OBSOLETE) | Planned | 1d | 05Jun14 05Jun14 | 10Feb14 26Feb14 | None | | None | | 2.9.4.5.104[FS]; 2.9.4.6.50.15[FS]; 2.9.4.4.36[FS]; 2.9.4.6.48[FS-6d]; 2.9.4.5.15[FS] | 2.10.8.3[FS] |
| 2.9.4.6.50 | APD Installation Milestones | In Progress | 322d | 25Feb13 05Jun14 | 21Sep12 10Feb14 | None | | None | | | |
| 2.9.4.6.50.1 | Start APD Installation for Blocks 01-02 | Complete | 0 | 25Feb13 25Feb13 | 21Sep12 21Sep12 | None | | None | | 2.6.1.3.54[FS]; 2.9.4.5.62[FS]; 2.9.4.5.1[FS]; 2.9.4.4.3[FS]; 2.6.1.4.1[FS]; 2.9.4.6.60.10[FS]; 2.6.3.5.7.12[FS]; 2.6.3.5.7.14[FS]; 2.6.3.5.7.13[FS]; 2.6.3.5.6.9[FS] | 2.9.4.6.35[FS]; 2.9.4.6.50.2[FS] |
| 2.9.4.6.50.2 | Start APD Installation for Blocks 03-04 | Complete | 0 | 15May13 15May13 | 30Oct12 30Oct12 | None | | None | | 2.9.4.5.2[FS]; 2.9.4.4.5[FS]; 2.9.4.5.65[FS]; 2.6.1.4.3[FS]; 2.9.4.6.50.1[FS]; 2.9.4.6.35[FS-6d] | 2.9.4.6.50.3[FS]; 2.9.4.6.36[FS] |
| 2.9.4.6.50.3 | Start APD Installation for Blocks 05-06 | Planned | 0 | 08Jul13 08Jul13 | 28Nov12 28Nov12 | None | | None | | 2.9.4.6.50.2[FS]; 2.9.4.5.68[FS]; 2.6.1.4.5[FS]; 2.9.4.6.36[FS-6d]; 2.9.4.5.3[FS]; 2.9.4.4.8[FS] | 2.9.4.6.50.4[FS]; 2.9.4.6.37[FS] |
| 2.9.4.6.50.4 | Start APD Installation for Blocks 07-08 | Planned | 0 | 02Aug13 02Aug13 | 03Jan13 03Jan13 | None | | None | | 2.9.4.6.50.3[FS]; 2.9.4.5.71[FS]; 2.6.1.4.7[FS]; 2.9.4.5.4[FS]; 2.9.4.4.10[FS]; 2.9.4.6.37[FS-6d] | 2.9.4.6.50.5[FS]; 2.9.4.6.38[FS] |
| 2.9.4.6.50.5 | Start APD Installation for Blocks 09-10 | Planned | 0 | 29Aug13 29Aug13 | 06Feb13 06Feb13 | None | | None | | 2.6.1.4.9[FS]; 2.9.4.6.38[FS-6d]; 2.9.4.5.74[FS]; 2.9.4.5.5[FS]; 2.9.4.6.50.4[FS]; 2.9.4.4.12[FS] | 2.9.4.6.39[FS]; 2.9.4.6.50.6[FS] |
| 2.9.4.6.50.6 | Start APD Installation for Blocks 11-12 | Planned | 0 | 27Sep13 27Sep13 | 14Mar13 14Mar13 | None | | None | | 2.9.4.6.39[FS-6d]; 2.9.4.5.77[FS]; 2.6.1.4.11[FS]; 2.9.4.4.15[FS]; 2.9.4.5.6[FS]; 2.9.4.6.50.5[FS] | 2.9.4.6.40[FS]; 2.9.4.6.50.7[FS] |
| 2.9.4.6.50.7 | Start APD Installation for Blocks 13-14 | Planned | 0 | 25Oct13 25Oct13 | 19Apr13 19Apr13 | None | | None | | 2.9.4.4.17[FS]; 2.9.4.6.40[FS-6d]; 2.9.4.5.80[FS]; 2.9.4.5.7[FS]; 2.6.1.4.13[FS]; 2.9.4.6.50.6[FS] | 2.9.4.6.50.8[FS]; 2.9.4.6.41[FS] |
| 2.9.4.6.50.8 | Start APD Installation for Blocks 15-16 | Planned | 0 | 22Nov13 22Nov13 | 28May13 28May13 | None | | None | | 2.6.1.4.15[FS]; 2.9.4.6.41[FS-6d]; 2.9.4.5.83[FS]; 2.9.4.4.20[FS]; 2.9.4.6.50.7[FS]; 2.9.4.5.8[FS] | 2.9.4.6.42[FS]; 2.9.4.6.50.9[FS] |
| 2.9.4.6.50.9 | Start APD Installation for Blocks 17-18 | Planned | 0 | 26Dec13 26Dec13 | 03Jul13 03Jul13 | None | | None | | 2.9.4.4.22[FS]; 2.9.4.5.86[FS]; 2.6.1.4.17[FS]; 2.9.4.6.50.8[FS]; 2.9.4.5.9[FS]; 2.9.4.6.42[FS-6d] | 2.9.4.6.43[FS]; 2.9.4.6.50.10[FS] |
| 2.9.4.6.50.10 | Start APD Installation for Blocks 19-20 | Planned | 0 | 28Jan14 28Jan14 | 09Aug13 09Aug13 | None | | None | | 2.9.4.6.43[FS-6d]; 2.9.4.5.10[FS]; 2.6.1.4.19[FS]; 2.9.4.6.50.9[FS]; 2.9.4.4.24[FS]; 2.9.4.5.89[FS] | 2.9.4.6.44[FS]; 2.9.4.6.50.11[FS] |
| 2.9.4.6.50.11 | Start APD Installation for Blocks 21-22 | Planned | 0 | 25Feb14 25Feb14 | 17Sep13 17Sep13 | None | | None | | 2.9.4.6.44[FS-6d]; 2.9.4.5.11[FS]; 2.9.4.4.27[FS]; 2.9.4.5.92[FS]; 2.6.1.4.21[FS]; 2.9.4.6.50.10[FS] | 2.9.4.6.45[FS]; 2.9.4.6.50.12[FS] |
| 2.9.4.6.50.12 | Start APD Installation for Blocks 23-24 | Planned | 0 | 25Mar14 25Mar14 | 23Oct13 23Oct13 | None | | None | | 2.6.1.4.23[FS]; 2.9.4.4.29[FS]; 2.9.4.6.45[FS-6d]; 2.9.4.5.95[FS]; 2.9.4.5.12[FS]; 2.9.4.6.50.11[FS] | 2.9.4.6.46[FS]; 2.9.4.6.50.13[FS] |
| 2.9.4.6.50.13 | Start APD Installation for Blocks 25-26 | Planned | 0 | 22Apr14 22Apr14 | 02Dec13 02Dec13 | None | | None | | 2.6.1.4.25[FS]; 2.9.4.6.46[FS-6d]; 2.9.4.5.13[FS]; 2.9.4.4.32[FS]; 2.9.4.5.98[FS]; 2.9.4.6.50.12[FS] | 2.9.4.6.50.14[FS]; 2.9.4.6.47[FS] |
| 2.9.4.6.50.14 | Start APD Installation for Blocks 27-28 | Planned | 0 | 20May14 20May14 | 13Jan14 13Jan14 | None | | None | | 2.9.4.5.14[FS]; 2.9.4.6.50.13[FS]; 2.9.4.5.101[FS]; 2.9.4.4.34[FS]; 2.9.4.6.47[FS-6d]; 2.6.1.4.27[FS] | 2.9.4.6.50.15[FS]; 2.9.4.6.48[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.6.50.15 | Start APD Installation for Blocks 29-30 (Obsolete) | Planned | 0 | 05Jun14 05Jun14 | 10Feb14 10Feb14 | None | | None | | 2.9.4.6.50.14[FS]; 2.6.1.4.29[FS]; 2.9.4.5.15[FS]; 2.9.4.6.48[FS-6d]; 2.9.4.5.104[FS]; 2.9.4.4.36[FS] | 2.9.4.6.49[FS] |
| 2.9.4.6.60 | APD Dry Gas System Installation | Complete | 50d | 10Dec12 22Feb13 | 10Dec12 29Jan13 | None | | None | | | |
| 2.9.4.6.60.1 | Perform dry gas system electrical work | Complete | 10d | 10Dec12 03Jan13 | 10Dec12 21Dec12 | None | | None | | 2.6.3.5.7.10[FS] | 2.9.4.6.60.2[SS+5d] |
| 2.9.4.6.60.2 | Prepare footprint for dry gas system infrastructure | Complete | 4d | 20Dec12 03Jan13 | 17Dec12 20Dec12 | None | | None | | 2.9.4.6.60.1[SS+5d] | 2.9.4.6.60.3[FS-2d] |
| 2.9.4.6.60.3 | Install wire trough | Complete | 3d | 02Jan13 08Jan13 | 19Dec12 21Dec12 | None | | None | | 2.9.4.6.60.2[FS-2d] | 2.9.4.6.60.4[FS] |
| 2.9.4.6.60.4 | Mount electrical and mechanical assemblies | Complete | 3d | 07Jan13 10Jan13 | 26Dec12 28Dec12 | None | | None | | 2.9.4.6.60.3[FS] | 2.9.4.6.60.5[FS] |
| 2.9.4.6.60.5 | Pull wires between instruments and PLC | Complete | 3d | 09Jan13 15Jan13 | 02Jan13 04Jan13 | None | | None | | 2.9.4.6.60.4[FS] | 2.9.4.6.60.6[FS] |
| 2.9.4.6.60.6 | Connect tubing between mechanical assemblies | Complete | 3d | 22Jan13 01Feb13 | 07Jan13 09Jan13 | None | | None | | 2.9.4.6.60.5[FS] | 2.9.4.6.60.7[FS] |
| 2.9.4.6.60.7 | Wire instruments to PLC | Complete | 5d | 29Jan13 01Feb13 | 10Jan13 16Jan13 | None | | None | | 2.9.4.6.60.6[FS] | 2.9.4.6.60.8[FS] |
| 2.9.4.6.60.8 | Install air tubing to di-blocks | Complete | 3d | 29Jan13 01Feb13 | 17Jan13 22Jan13 | None | | None | | 2.9.4.6.60.7[FS] | 2.9.4.6.60.9[FS] |
| 2.9.4.6.60.9 | Commission dry gas system system | Complete | 5d | 01Feb13 22Feb13 | 23Jan13 29Jan13 | None | | None | | 2.9.4.6.60.8[FS] | 2.9.4.6.60.10[FS] |
| 2.9.4.6.60.10 | Dry gas system ready for APDs | Complete | 0 | 22Feb13 22Feb13 | 29Jan13 29Jan13 | None | | None | | 2.9.4.6.60.9[FS] | 2.9.4.6.50.1[FS] |
| 2.9.4.7 | Assembly Crew Management - Minnesota | In Progress | 685d | 01Jul11 26Mar14 | 01Jul11 26Mar14 | None | | None | | | |
| 2.9.4.7.1 | Assembly crew management - FY11 | Complete | 64d | 01Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.1.2.5.22[FS]; 2.1.2.3.3[FS] | 2.9.4.7.2[FS] |
| 2.9.4.7.2 | Assembly crew management - FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.4.7.1[FS] | 2.9.4.7.3[FS] |
| 2.9.4.7.3 | Assembly crew management - FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.4.7.2[FS] | 2.9.4.5.49[FS]; 2.9.4.7.4[FS]; 2.9.4.5.55[FS] |
| 2.9.4.7.4 | Assembly crew management - FY14 | Planned | 120d | 01Oct13 26Mar14 | 01Oct13 26Mar14 | None | | None | | 2.9.4.7.3[FS] | |
| 2.9.4.8 | Demonstration Block | Complete | 464d | 01Feb11 30Nov12 | 01Feb11 11Dec12 | None | | None | | | |
| 2.9.4.8.1 | Prepare demonstration block assembly site at ANL | Complete | 15d | 01Jun11 30Jun11 | 01Feb11 21Feb11 | None | | None | | 1.8.8.2.5[FS] | 2.9.4.8.6[FS] |
| 2.9.4.8.2 | Demonstration block module-pallet interface material | Complete | 5d | 01Feb11 01Feb11 | 01Feb11 07Feb11 | None | | None | | 1.8.8.2.25[FS] | 2.9.4.8.6[FS] |
| 2.9.4.8.3 | Move rotation idler table for demonstration block construction | Complete | 5d | 01Jun11 30Jun11 | 01Feb11 07Feb11 | None | | None | | 1.8.8.2.23[FS] | 2.9.4.8.4[FS] |
| 2.9.4.8.4 | Demonstration block alignment design and tooling | Complete | 20d | 01Jun11 30Jun11 | 08Feb11 07Mar11 | None | | None | | 2.9.4.8.3[FS] | 2.9.4.8.5[FS] |
| 2.9.4.8.5 | Demonstration block scaffolding | Complete | 5d | 07Jul11 12Jul11 | 07Jul11 13Jul11 | None | | None | | 2.9.4.8.4[FS] | 2.9.4.8.6[FS] |
| 2.9.4.8.6 | Assemble demonstration block at ANL | Complete | 30d | 18Jul11 21Sep11 | 18Jul11 26Aug11 | None | | None | | 2.5.3.1.18[FS]; 2.9.4.8.5[FS]; 2.9.4.8.2[FS]; 1.8.2.7[FS-68d]; 2.9.4.8.1[FS]; 1.8.2.12[FS-64d] | 2.9.2.3.9[SS]; 2.9.4.8.15[SS]; 2.9.4.8.14[FS]; 2.9.4.8.7[FS] |
| 2.9.4.8.7 | Install demonstration block at FNAL | Complete | 5d | 31Oct11 09Dec11 | 15Dec11 21Dec11 | None | | None | | 2.9.4.8.14[FS]; 2.9.2.3.9[FS]; 2.9.4.8.15[FS]; 2.9.4.8.6[FS]; 1.8.8.2.7[FS]; 1.8.8.2.8[FS] | 2.9.4.8.8[FS] |
| 2.9.4.8.8 | Demonstration block installation completed | Complete | 0 | 09Dec11 09Dec11 | 21Dec11 21Dec11 | None | | None | | 2.9.4.8.7[FS] | 2.9.4.8.9[FS] |
| 2.9.4.8.9 | Fill demonstration block with water | Complete | 5d | 17Jan12 16Mar12 | 22Dec11 03Jan12 | None | | None | | 2.9.4.8.8[FS] | 2.9.4.8.11[FS]; 2.9.4.8.10[FS] |
| 2.9.4.8.10 | Demonstration block testing started | Complete | 0 | 27Feb12 27Feb12 | 04Jan12 04Jan12 | None | | None | | 2.9.4.8.11[SS]; 2.9.4.8.9[FS] | 2.9.4.8.13[FS] |
| 2.9.4.8.11 | Measure demonstration block mechanical characteristics | Complete | 24d | 27Feb12 28Sep12 | 04Jan12 07Feb12 | None | | None | | 2.9.4.8.9[FS] | 2.9.4.8.12[FF]; 2.9.4.8.10[SS] |
| 2.9.4.8.12 | Measure demonstration block long-term deformations | Complete | 142d | 27Feb12 28Sep12 | 08Feb12 28Sep12 | None | | None | | 2.9.4.8.11[FF] | 2.9.4.8.13[FS] |
| 2.9.4.8.13 | Demonstration block testing completed | Complete | 0 | 28Sep12 28Sep12 | 28Sep12 28Sep12 | None | | None | | 2.9.4.8.10[FS]; 2.9.4.8.12[FS] | 2.9.4.8.17[FS] |
| 2.9.4.8.14 | Disassemble scaffold and ship demonstration block to FNAL | Complete | 5d | 13Oct11 13Oct11 | 28Sep11 04Oct11 | None | | None | | 2.9.4.8.6[FS] | 2.9.4.8.7[FS] |
| 2.9.4.8.15 | Assemble demonstration block at ANL (supplemental) | Complete | 21d | 03Oct11 31Oct11 | 03Oct11 31Oct11 | None | | None | | 2.9.4.8.6[SS] | 2.9.4.8.7[FS] |
| 2.9.4.8.16 | Design of FHEP disassembly (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 03Dec12 03Dec12 | None | | None | | 2.9.4.8.17[SS] | 2.9.4.8.18[FS] |
| 2.9.4.8.17 | Drain FHEP (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 03Dec12 03Dec12 | None | | None | | 2.9.4.8.13[FS] | 2.9.4.8.16[SS]; 2.9.4.8.18[FS] |
| 2.9.4.8.18 | Assemble or reuse towers (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 04Dec12 04Dec12 | None | | None | | 2.9.4.8.17[FS]; 2.9.4.8.16[FS] | 2.9.4.8.19[FS] |
| 2.9.4.8.19 | Remove tabletop (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 05Dec12 05Dec12 | None | | None | | 2.9.4.8.18[FS] | 2.9.4.8.20[FS] |
| 2.9.4.8.20 | Disassemble legs (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 06Dec12 06Dec12 | None | | None | | 2.9.4.8.19[FS] | 2.9.4.8.21[FS] |
| 2.9.4.8.21 | Disassemble hydraulics (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 07Dec12 07Dec12 | None | | None | | 2.9.4.8.20[FS] | 2.9.4.8.22[FS] |
| 2.9.4.8.22 | Remove lower sections to railhead (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 10Dec12 10Dec12 | None | | None | | 2.9.4.8.21[FS] | 2.9.4.8.23[FS] |
| 2.9.4.8.23 | Remove rails and clean up (OBSOLETE) | Complete | 1d | 30Nov12 30Nov12 | 11Dec12 11Dec12 | None | | None | | 2.9.4.8.22[FS] | 2.10.9.1[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.5 | Management - Construction Phase | In Progress | 1758d | 01Oct07 30Sep14 | 01Oct07 30Sep14 | None | | None | | | |
| 2.9.5.1 | FY08 | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | Not Earlier Than | 01Oct07 | None | | | |
| 2.9.5.1.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.9.5.2.1[FS] |
| 2.9.5.1.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.9.5.2.2[FS] |
| 2.9.5.1.3 | Equipment (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.9.5.2.3[FS] |
| 2.9.5.1.4 | Materials and supplies (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.9.5.2.4[FS] |
| 2.9.5.2 | FY09 | Complete | 251d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.9.5.2.1 | Labor | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.9.5.1.1[FS] | 2.9.5.3.1[FS] |
| 2.9.5.2.2 | Travel | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.9.5.1.2[FS] | 2.9.5.3.5[FS]; 2.9.5.3.2[FS] |
| 2.9.5.2.3 | Equipment | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.9.5.1.3[FS] | 2.9.5.3.3[FS] |
| 2.9.5.2.4 | Materials and supplies | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.9.5.1.4[FS] | 2.9.5.3.4[FS] |
| 2.9.5.3 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 30Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.9.5.3.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.9.5.2.1[FS] | 2.9.5.4.1[FS]; 2.9.5.4.6[FS] |
| 2.9.5.3.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.9.5.2.2[FS] | 2.9.5.4.5[FS]; 2.9.5.4.2[FS]; 2.9.5.4.7[FS] |
| 2.9.5.3.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.9.5.2.3[FS] | 2.9.5.4.3[FS] |
| 2.9.5.3.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.9.5.2.4[FS] | 2.9.5.4.4[FS] |
| 2.9.5.3.5 | Travel - additional | Complete | 190d | 04Jan10 30Sep10 | 04Jan10 30Sep10 | None | | None | | 2.9.5.2.2[FS] | 2.9.5.4.2[FS]; 2.9.5.4.5[FS]; 2.9.5.4.7[FS] |
| 2.9.5.4 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 30Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.9.5.4.1 | Labor | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.9.5.3.1[FS] | 2.9.5.5.1[FS] |
| 2.9.5.4.2 | Travel | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.9.5.3.5[FS]; 2.9.5.3.2[FS] | 2.9.5.5.2[FS] |
| 2.9.5.4.3 | Equipment | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.9.5.3.3[FS] | 2.9.5.5.3[FS] |
| 2.9.5.4.4 | Materials and supplies | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.9.5.3.4[FS] | 2.9.5.5.4[FS] |
| 2.9.5.4.5 | Travel - additional | Complete | 251d | 01Oct10 30Sep11 | 01Oct10 29Sep11 | None | | None | | 2.9.5.3.2[FS]; 2.9.5.3.5[FS] | 2.9.5.5.2[FS] |
| 2.9.5.4.6 | Labor - additional | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | 2.9.5.3.1[FS] | 2.9.5.5.1[FS] |
| 2.9.5.4.7 | Travel - additional 2 | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | 2.9.5.3.5[FS]; 2.9.5.3.2[FS] | 2.9.5.5.2[FS] |
| 2.9.5.4.8 | Training-FY11 | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | | 2.9.5.5.8[FS] |
| 2.9.5.4.9 | Installation assembly and integration engineering support | Complete | 64d | 01Jul11 30Sep11 | 01Jul11 30Sep11 | None | | None | | | 2.9.5.5.9[FS] |
| 2.9.5.4.10 | Engineering for review | Complete | 5d | 01Jul11 08Jul11 | 01Jul11 08Jul11 | None | | None | | | |
| 2.9.5.5 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.9.5.5.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.5.4.1[FS]; 2.9.5.4.6[FS] | 2.9.5.6.1[FS]; 2.9.5.5.5[SS] |
| 2.9.5.5.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.5.4.2[FS]; 2.9.5.4.5[FS]; 2.9.5.4.7[FS] | 2.9.5.6.2[FS]; 2.9.5.6.9[FS] |
| 2.9.5.5.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.5.4.3[FS] | 2.9.5.6.3[FS] |
| 2.9.5.5.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.5.4.4[FS] | 2.9.5.6.4[FS] |
| 2.9.5.5.5 | Labor - UMNTC supplemental admin support | Complete | 190d | 03Jan12 28Sep12 | 03Jan12 28Sep12 | None | | None | | 2.9.5.5.1[SS] | 2.9.5.6.1[FS] |
| 2.9.5.5.8 | Training-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.5.4.8[FS] | 2.9.5.6.8[FS] |
| 2.9.5.5.9 | ANL Assembly Support-FY12 | Complete | 209d | 01Dec11 28Sep12 | 01Dec11 28Sep12 | None | | None | | 2.9.5.4.9[FS] | 2.9.5.6.1[FS]; 2.9.5.5.10[SS] |
| 2.9.5.5.10 | ANL Assembly Support-supplemental | Complete | 63d | 02Jul12 28Sep12 | 02Jul12 28Sep12 | None | | None | | 2.9.5.5.9[SS] | 2.9.5.6.1[FS] |
| 2.9.5.6 | FY13 | In Progress | 335d | 01Oct12 04Feb14 | 01Oct12 30Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.9.5.6.1 | Labor | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.5.5.1[FS]; 2.9.5.5.5[FS]; 2.9.5.5.10[FS]; 2.9.5.5.9[FS] | 2.9.5.7.1[FS] |
| 2.9.5.6.2 | Travel | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.5.5.2[FS] | 2.9.5.7.9[FS]; 2.9.5.7.3[FS]; 2.9.5.7.2[FS] |
| 2.9.5.6.3 | Equipment | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.5.5.3[FS] | 2.9.5.7.3[FS] |
| 2.9.5.6.4 | Materials and supplies | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.5.5.4[FS] | 2.9.5.7.4[FS] |
| 2.9.5.6.8 | Training-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.5.5.8[FS] | |
| 2.9.5.6.9 | Travel-FY13 - supplemental | In Progress | 169d | 01Feb13 04Feb14 | 01Feb13 30Sep13 | None | | None | | 2.9.5.5.2[FS] | 2.9.5.7.9[FS] |
| 2.9.5.7 | FY14 | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | Not Earlier Than | 01Oct13 | None | | | |
| 2.9.5.7.1 | Labor | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.9.5.6.1[FS] | |
| 2.9.5.7.2 | Travel | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.9.5.6.2[FS] | |
| 2.9.5.7.3 | Equipment | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.9.5.6.3[FS]; 2.9.5.6.2[FS] | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.5.7.4 | Materials and supplies | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.9.5.6.4[FS] | |
| 2.9.5.7.9 | Travel-FY14 - supplemental | Planned | 82d | 05Feb14 30May14 | 01Oct13 30May14 | None | | None | | 2.9.5.6.9[FS]; 2.9.5.6.2[FS] | |
| 2.9.6 | Other University of Minnesota Far Detector Assembly-Related Activities | In Progress | 692d | 03Jan11 30Sep13 | 03Jan11 30Sep13 | None | | None | | | |
| 2.9.6.1 | Lunch Room and Office | In Progress | 522d | 01Sep11 30Sep13 | 01Jul11 30Sep13 | None | | None | | | |
| 2.9.6.1.1 | Initial setup | Complete | 20d | 14Oct11 30Nov11 | 01Jul11 29Jul11 | None | | None | | 2.1.2.5.22[FS] | 2.9.6.1.2[SS] |
| 2.9.6.1.2 | Rent-FY11 | Complete | 21d | 01Sep11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.9.6.1.1[SS] | 2.9.6.1.3[FS] |
| 2.9.6.1.3 | Rent-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.6.1.2[FS] | 2.9.6.1.4[FS] |
| 2.9.6.1.4 | Rent-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.6.1.3[FS] | |
| 2.9.6.2 | Procure office computers | Complete | 21d | 01Sep11 30Mar12 | 01Jul11 01Aug11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.9.6.3 | Procure shop tools | Complete | 42d | 01Jul11 30Mar12 | 01Jul11 30Aug11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.9.6.4 | Procure safety equipment | Complete | 64d | 01Jul11 30Mar12 | 01Jul11 30Sep11 | None | | None | | 2.1.2.5.22[FS] | 2.9.4.3.2[FS] |
| 2.9.6.5 | Electricity | In Progress | 522d | 01Sep11 30Sep13 | 01Jul11 30Sep13 | None | | None | | | |
| 2.9.6.5.1 | Electricity-FY11 | Complete | 21d | 01Sep11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.1.2.5.22[FS] | 2.9.6.5.2[FS] |
| 2.9.6.5.2 | Electricity-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.6.5.1[FS] | 2.9.6.5.3[FS] |
| 2.9.6.5.3 | Electricity-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.6.5.2[FS] | |
| 2.9.6.6 | Housing | In Progress | 522d | 01Sep11 30Sep13 | 01Jul11 30Sep13 | None | | None | | | |
| 2.9.6.6.1 | Housing-FY11 | Complete | 21d | 01Sep11 30Sep11 | 01Jul11 30Sep11 | None | | None | | 2.1.2.5.22[FS] | 2.9.6.6.4[FS]; 2.9.6.6.2[FS] |
| 2.9.6.6.2 | Housing-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.6.6.1[FS] | 2.9.6.6.3[FS] |
| 2.9.6.6.3 | Housing-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.6.6.4[FS]; 2.9.6.6.2[FS] | |
| 2.9.6.6.4 | Housing-FY12 (replacement) | Complete | 229d | 01Nov11 28Sep12 | 01Nov11 28Sep12 | None | | None | | 2.9.6.6.1[FS] | 2.9.6.6.3[FS] |
| 2.9.6.7 | UMNTC Management | In Progress | 692d | 03Jan11 30Sep13 | 03Jan11 30Sep13 | None | | None | | | |
| 2.9.6.7.1 | Labor-FY11 | Complete | 190d | 03Jan11 30Sep11 | 03Jan11 29Sep11 | None | | None | | | 2.9.6.7.2[FS] |
| 2.9.6.7.2 | Labor-FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.9.6.7.1[FS] | 2.9.6.7.4[FS]; 2.9.6.7.3[FS] |
| 2.9.6.7.3 | Labor-FY13 | In Progress | 251d | 01Oct12 30Sep13 | 01Oct12 30Sep13 | None | | None | | 2.9.6.7.2[FS] | |
| 2.9.6.7.4 | Labor-FY13 - supplemental | In Progress | 190d | 02Jan13 30Sep13 | 02Jan13 30Sep13 | None | | None | | 2.9.6.7.2[FS] | |
| 2.10 | Project Management - Construction | In Progress | 1904d | 01May07 26Nov14 | 01May07 26Nov14 | None | | None | | | |
| 2.10.2 | FY08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | Not Earlier Than | 01Oct07 | None | | | |
| 2.10.2.1 | FNAL Management 08 | Complete | 252d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | |
| 2.10.2.1.1 | Labor | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | 2.10.3.1.1[FS] |
| 2.10.2.1.2 | Travel | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | 2.10.3.1.2[FS] |
| 2.10.2.1.3 | Equipment | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | 2.10.3.1.3[FS] |
| 2.10.2.1.4 | Materials and supplies | Complete | 146d | 01Oct07 30Sep08 | 01Oct07 30Apr08 | None | | None | | | 2.10.3.1.4[FS] |
| 2.10.2.2 | Harvard Management 08 | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | |
| 2.10.2.2.1 | Labor (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.10.3.2.1[FS] |
| 2.10.2.2.2 | Travel (obsolete) | Complete | 1d | 01Oct07 01Oct07 | 01Oct07 01Oct07 | None | | None | | | 2.10.3.2.2[FS] |
| 2.10.3 | FY09 | Complete | 251d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | Not Earlier Than | 01Oct08 | None | | | |
| 2.10.3.1 | FNAL Management 09 | Complete | 251d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | | |
| 2.10.3.1.1 | Labor | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.1.1[FS] | 2.10.4.1.1[FS] |
| 2.10.3.1.2 | Travel | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.1.2[FS] | 2.10.4.1.2[FS] |
| 2.10.3.1.3 | Equipment | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.1.3[FS] | 2.10.4.1.3[FS] |
| 2.10.3.1.4 | Materials and supplies | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.1.4[FS] | 2.10.4.1.4[FS] |
| 2.10.3.2 | Harvard Management 09 | Complete | 251d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | | |
| 2.10.3.2.1 | Labor | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.2.1[FS] | 2.10.4.2.1[FS] |
| 2.10.3.2.2 | Travel | Complete | 250d | 01Oct08 30Sep09 | 01Oct08 29Sep09 | None | | None | | 2.10.2.2.2[FS] | 2.10.4.2.2[FS] |
| 2.10.4 | FY10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | Not Earlier Than | 01Oct09 | None | | | |
| 2.10.4.1 | FNAL Management 10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | | |
| 2.10.4.1.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.1.1[FS] | 2.10.5.1.1[FS] |
| 2.10.4.1.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.1.2[FS] | 2.10.5.1.2[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10.4.1.3 | Equipment | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.1.3[FS] | 2.10.5.1.3[FS] |
| 2.10.4.1.4 | Materials and supplies | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.1.4[FS] | 2.10.5.1.4[FS] |
| 2.10.4.2 | Harvard Management 10 | Complete | 251d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | | |
| 2.10.4.2.1 | Labor | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.2.1[FS] | 2.10.5.2.1[FS] |
| 2.10.4.2.2 | Travel | Complete | 250d | 01Oct09 30Sep10 | 01Oct09 29Sep10 | None | | None | | 2.10.3.2.2[FS] | 2.10.5.2.2[FS] |
| 2.10.4.3 | Module factory machines engineering review | Complete | 60d | 15Oct09 01Apr10 | 15Oct09 14Jan10 | None | | None | | | 2.5.3.1.4[FS]; 2.5.3.1.1[FS] |
| 2.10.5 | FY11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | Not Earlier Than | 01Oct10 | None | | | |
| 2.10.5.1 | FNAL Management 11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | | |
| 2.10.5.1.1 | Labor | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.1.1[FS] | 2.10.6.1.1[FS] |
| 2.10.5.1.2 | Travel | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.1.2[FS] | 2.10.6.1.2[FS] |
| 2.10.5.1.3 | Equipment | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.1.3[FS] | 2.10.6.1.3[FS] |
| 2.10.5.1.4 | Materials and supplies | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.1.4[FS] | 2.10.6.1.4[FS] |
| 2.10.5.2 | Harvard Management 11 | Complete | 252d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | | |
| 2.10.5.2.1 | Labor | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.2.1[FS] | 2.10.6.2.1[FS] |
| 2.10.5.2.2 | Travel | Complete | 250d | 01Oct10 30Sep11 | 01Oct10 28Sep11 | None | | None | | 2.10.4.2.2[FS] | 2.10.6.2.2[FS] |
| 2.10.6 | FY12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | Not Earlier Than | 01Oct11 | None | | | |
| 2.10.6.1 | FNAL Management 12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.10.6.1.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.1.1[FS] | 2.10.7.1.1[FS] |
| 2.10.6.1.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.1.2[FS] | 2.10.7.1.2[FS] |
| 2.10.6.1.3 | Equipment | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.1.3[FS] | 2.10.7.1.3[FS] |
| 2.10.6.1.4 | Materials and supplies | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.1.4[FS] | 2.10.7.1.4[FS] |
| 2.10.6.2 | Harvard Management 12 | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | | |
| 2.10.6.2.1 | Labor | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.2.1[FS] | 2.10.7.2.1[FS] |
| 2.10.6.2.2 | Travel | Complete | 250d | 03Oct11 28Sep12 | 03Oct11 28Sep12 | None | | None | | 2.10.5.2.2[FS] | 2.10.7.2.2[FS] |
| 2.10.7 | FY13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | Not Earlier Than | 01Oct12 | None | | | |
| 2.10.7.1 | FNAL Management 13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | | |
| 2.10.7.1.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.1.1[FS] | 2.10.11.1.1[FS] |
| 2.10.7.1.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.1.2[FS] | 2.10.11.1.2[FS] |
| 2.10.7.1.3 | Equipment | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.1.3[FS] | 2.10.11.1.3[FS] |
| 2.10.7.1.4 | Materials and supplies | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.1.4[FS] | 2.10.11.1.4[FS] |
| 2.10.7.2 | Harvard Management 13 | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | | |
| 2.10.7.2.1 | Labor | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.2.1[FS] | 2.10.11.2.1[FS] |
| 2.10.7.2.2 | Travel | In Progress | 250d | 01Oct12 27Sep13 | 01Oct12 27Sep13 | None | | None | | 2.10.6.2.2[FS] | 2.10.11.2.2[FS] |
| 2.10.8 | Critical Decision Milestones | In Progress | 1529d | 24Oct08 26Nov14 | 02Feb09 26Nov14 | None | | None | | | |
| 2.10.8.1 | CD-3a | Complete | 0 | 24Oct08 24Oct08 | 02Feb09 02Feb09 | None | | None | | 1.9.4.3[SS]; 2.10.9.18[FS]; 2.10.9.19[FS]; 2.10.9.20[FS] | 2.10.9.5[FS]; 2.1.1.3.1[FS]; 2.3.2.14[SS]; 2.0.1.2.1.1.9[FS]; 2.0.1.2.1.1.1[FS]; 2.1.4.1.1[FS]; 2.1.4.1.3[FS]; 2.1.4.1.2[FS]; 2.4.1.1.1[FS]; 2.3.1.5[SS]; 2.4.1.2.1[FS]; 2.2.1.6.1[FS]; 2.1.1.4.1[SS]; 2.1.2.2.7[FS]; 2.2.4.1.1[FS]; 2.10.9.24[FS]; 2.10.8.2[FS]; 2.2.3.4[FS]; 2.2.3.1[FS]; 2.6.4.3.1[FS]; 2.4.6.3.1.1[FS]; 2.4.6.3.2.1[FS] |
| 2.10.8.2 | CD-3b | Complete | 0 | 29Oct09 29Oct09 | 01Oct09 01Oct09 | None | | None | | 2.10.9.25[FS]; 2.10.8.1[FS] | 2.5.3.2.1.1[FS]; 2.5.1.2.1[FS]; 2.10.9.6[FS]; 2.6.3[FS]; 2.5.2.1[FS]; 2.8.1.2.4.1[FS]; 2.9.3.2.2[FS]; 2.9.1.5.1[FF]; 2.6.1.1.2.2[FS]; 2.8.1.2.1[FS]; 2.6.1.5.3[FS]; 2.2.1.1[FS]; 2.7.4[FS]; 2.2.2.1[FS]; 2.5.1.1.1[FS]; 2.7.1[FS]; 2.7.2[FS]; 2.9.1.4.3[FS]; 2.6.1.1.1.1[FS]; 2.6.1.1.2.1[FS]; 2.7.3[FS]; 2.6.1.2.2[FS]; 2.2.1.4[FS]; 2.10.8.3[FS]; 2.9.2.2.21.4[FS]; 2.9.3.3.2[FS]; 2.9.3.1.4[FS]; 2.9.1.2.2[FS]; 2.9.2.2.22.4[FS]; 2.9.3.4.3[FS]; 2.9.1.3.3[FS]; 2.9.1.1.4[FS] |
| 2.10.8.3 | CD-4 | Planned | 0 | 26Nov14 26Nov14 | 26Nov14 26Nov14 | Not Earlier Than | 26Nov14 | Not Later Than | 26Nov14 | 2.1.1.4.9[FS]; 2.5.3.2.5.4[FS]; 2.9.4.6.32[FS]; 2.5.3.2.1.3.7[FS]; 2.9.4.6.49[FS]; 2.0.4.3.21[FS]; 2.1.2.5.23[FS]; 2.8.8.4.15[FS]; 2.8.5.8[FS]; 2.6.4.8[FS]; 2.1.2.3.5[FS]; 2.10.8.2[FS]; 2.9.4.5.55[FS]; 2.10.9.29[FS]; 2.10.9.1[FS] | |
| 2.10.9 | Other Management Milestones | In Progress | 1888d | 01May07 03Nov14 | 01May07 03Nov14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10.9.1 | Project office milestone for end-date float monitoring | Planned | 0 | 24Jun14 24Jun14 | 11Feb14 11Feb14 | None | | None | | 2.5.3.2.8[FS]; 2.9.4.3.76[FS]; 2.7.1.11[FS]; 2.9.4.4.49[FS]; 2.1.2.5.23[FS]; 2.4.4.15[FS]; 2.9.4.8.23[FS]; 2.1.2.3.5[FS]; 2.9.4.5.55[FS]; 2.0.4.3.21[FS]; 2.1.1.4.9[FS]; 2.9.4.1.17.4[FS]; 2.9.4.1.16.4[FS]; 2.7.4.4.7.6[FS]; 2.7.4.4.8.11[FS]; 2.8.4.6.5[FS]; 2.9.4.6.32[FS]; 2.7.4.10[FS]; 2.7.1.10.4.1.7[FS] | 2.10.8.3[FS] |
| 2.10.9.2 | FY07 TEC Funds Available | Complete | 0 | 01May07 01May07 | 01May07 01May07 | None | | None | | 2.0.4.3.12[FS] | 2.10.9.4[FS] |
| 2.10.9.4 | FY08 Funds Available | Complete | 0 | 01Nov07 01Nov07 | 29Oct07 29Oct07 | None | | None | | 2.10.9.2[FS] | 1.0.1.2.5.2.8[FS]; 1.0.1.2.5.2.10[FS]; 1.0.1.2.2.2.10[FS]; 1.0.1.2.2.2.7[FS]; 1.0.4.2.3[FS+20d]; 1.0.1.1.2.2.6.1[FS]; 1.0.2.2.1.3.1[FS]; 1.0.3.4.2.2.1[FS]; 1.0.3.4.2.4.1[FS]; 1.0.3.4.2.3.1[FS]; 1.0.3.4.2.1.1[FS]; 1.0.2.1.4.1[FS]; 1.0.1.1.2.1.5.1[FS]; 1.0.1.1.2.1.10.1[FS]; 2.10.9.7[FS]; 1.0.1.1.2.1.4.2[FS] |
| 2.10.9.5 | CD-3a Funds Available | Complete | 0 | 24Oct08 24Oct08 | 02Feb09 02Feb09 | None | | None | | 2.10.8.1[FS] | 2.0.1.2.5.1.8[FS]; 2.0.1.2.5.1.1[FS]; 2.0.1.2.5.1.6[FS]; 2.0.1.2.4.1.5[FS]; 2.0.1.3.1.2[FS]; 2.0.1.1.1.14.13[FS]; 2.0.2.2.2.1.5[FS]; 2.0.1.1.1.14.7[FS]; 2.0.1.1.1.14.2[FS]; 2.0.1.2.4.1.13[FS]; 2.0.1.1.1.4.2[FS]; 2.0.1.2.3.2.7[FS]; 2.0.1.2.1.1.15[FS]; 2.0.1.2.4.1.1[FS]; 2.0.1.1.3.1[FS]; 2.0.2.2.1.1[FS]; 2.3.3.3.1[FS]; 2.2.6.2.1[FS]; 2.0.1.1.1.2.10[FS]; 2.0.1.1.1.10.2[FS]; 2.6.1.5.1[FS]; 2.0.3.1.4.3[FS]; 2.0.3.1.3.1[FS]; 2.0.1.3.3.1.1[FS]; 2.6.2.1.3[FS]; 2.0.2.1.2.1[FS]; 2.0.2.1.3.1[FS]; 2.0.1.1.1.2.12[FS]; 2.4.1.1.5[FS]; 2.3.1.6[FS]; 2.0.1.3.3.2.4[FS]; 2.0.1.2.4.1.11[FS]; 2.0.1.3.2.1.1[FS]; 2.0.1.3.1.1[FS]; 2.0.1.2.5.1.10[FS]; 2.0.1.2.4.1.20[FS]; 2.0.1.2.4.1.14[FS]; 2.0.1.2.4.1.18[FS]; 2.0.2.2.2.1.3.1[FS]; 2.0.2.2.2.1.2.1[FS]; 2.0.2.2.2.1.1.1[FS]; 2.0.2.2.2.1.4.1[FS]; 2.0.2.1.1.1[FS]; 2.0.1.1.1.2.14[FS]; 2.0.1.1.2.2[FS]; 2.0.1.1.2.4[FS]; 2.0.1.1.1.3.2[FS]; 2.0.1.1.1.8.1[FS]; 2.0.1.1.2.5[FS]; 2.0.1.2.3.2.1[FS]; 2.0.1.1.2.6[FS]; 2.0.1.1.2.7[FS]; 2.0.1.2.1.1.5[FS]; 2.7.5.3.3[FS]; 2.7.5.3.4[FS]; 2.7.5.3.2[FS]; 2.7.5.3.1[FS]; 2.3.1.1[FS]; 2.0.1.2.7.1[FS]; 2.0.3.1.2.1[FS]; 2.0.2.2.2.1.6.1[FS]; 2.0.1.2.6.1[FS]; 2.0.3.1.2.3[FS]; 2.0.1.3.2.1.5.1[FS]; 2.0.1.3.2.1.3.1[FS]; 2.0.1.3.2.1.4.1[FS]; 2.0.1.3.2.1.5.2[FS]; 2.0.1.3.2.1.5.3[FS]; 2.0.1.3.2.1.5.4[FS]; 2.0.1.1.1.1.1[FS]; 2.0.1.1.1.5.2[FS]; 2.0.1.1.1.13.1[FS]; 2.0.1.1.1.13.2[FS]; 2.8.5.2.1[FS]; 2.8.5.2.2[FS]; 2.8.5.2.3[FS]; 2.8.5.2.4[FS] |
| 2.10.9.6 | CD-3b Funds Available | Complete | 0 | 29Oct09 29Oct09 | 01Oct09 01Oct09 | None | | None | | 2.10.8.2[FS] | 2.6.2.1.5[FS]; 2.6.2.1.7.1[FS]; 2.6.2.1.6[FS]; 2.6.2.1.4[FS]; 2.0.1.2.4.1.19[FS]; 2.0.1.1.1.3.5.4[FS]; 2.0.3.1.1.1.2[FS]; 2.0.1.1.4.2.2[FS+180d]; 2.6.2.1.1.3.1.1.1[FS]; 2.0.4.4.2.13[FS]; 2.0.3.4.2.1.2[FS+60d]; 2.0.1.1.4.1.2[FS+180d]; 2.0.2.2.4.2[FS+180d]; 2.0.3.4.1.5.2[FS+60d]; 2.0.1.1.1.3.5.6[FS]; 2.0.2.2.4.4[FS+180d]; 2.0.1.1.1.3.5.2[FS]; 2.0.3.3.2.1.2[FS]; 2.0.3.4.1.4.2[FS+60d]; 2.0.3.4.2.4.2[FS+60d]; 2.0.3.4.2.4.3.2[FS+60d]; 2.0.3.4.2.2.2[FS+60d]; 2.0.3.1.1.2.2[FS]; 2.0.3.4.1.2.5[FS+60d]; 2.0.3.4.1.2.2[FS+60d]; 2.0.1.1.1.2.6[FS]; 2.6.2.6[FS]; 2.6.2.5.1.1[FS]; 2.6.2.5.1.2.1[FS]; 2.6.2.5.1.2.2[FS]; 2.0.3.3.2.2.4[FS]; 2.0.3.3.2.2.6[FS]; 2.0.3.3.2.2.2[FS]; 2.0.3.4.3.4[FS]; 2.0.3.3.3.1.2[FS]; 2.0.3.4.1.1.1[FS]; 2.0.3.3.1.1[FS]; 2.0.3.3.3.3.1[FS]; 2.0.3.4.1.3.1[FS]; 2.0.1.1.1.2.8[FS]; 2.0.1.1.1.6.2[FS]; 2.0.3.2.3.1[FS]; 2.0.3.2.1.2.2[FS]; 2.0.3.2.2.1[FS]; 2.0.1.2.5.1.4[FS]; 2.0.1.2.5.1.2[FS]; 2.0.1.2.3.2.11[FS]; 2.0.1.2.3.2.5[FS]; 2.0.1.2.3.2.3[FS]; 2.0.1.1.1.9.3[FS]; 2.0.1.1.1.9.2[FS]; 2.0.1.1.1.9.4[FS]; 2.0.1.2.2.1.11[FS]; 2.0.1.1.1.9.1[FS]; 2.0.1.2.4.1.23[FS]; 2.0.1.2.2.1.7[FS]; 2.0.1.2.2.1.1[FS]; 2.0.1.2.2.1.9[FS]; 2.0.1.2.1.1.11[FS]; 2.0.1.2.1.1.7[FS]; 2.0.1.2.1.1.3[FS]; 2.0.1.1.4.5.3[FS]; 2.0.1.1.4.5.5[FS]; 2.0.1.1.4.5.7[FS]; 2.0.1.1.4.5.9[FS]; 2.0.3.4.3.1[FS]; 2.0.3.1.3.4[FS] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10.9.7 | FY09 Funds Available | Complete | 0 | 14Oct08 14Oct08 | 02Feb09 02Feb09 | None | | None | | 2.10.9.4[FS] | 1.7.1.8.3.1[FS]; 1.7.1.9.1.1[FS]; 1.0.1.1.2.1.2.1[FS]; 1.0.2.2.2.1[FS]; 1.0.1.1.2.1.2.2[FS+10d]; 2.1.2.1.16[FS]; 1.6.1.2.11.1[FS]; 1.3.4.5[FS]; 2.0.1.2.7.2[FS]; 1.0.4.1.4[FS]; 1.0.4.1.3[FS]; 1.7.2.3.1.1[FS]; 2.1.2.1.15[FS]; 2.1.2.4.1.2[FS]; 2.1.2.1.14[FS]; 2.1.2.4.1.3.2[FS]; 2.1.2.4.1.3.1[FS]; 2.1.2.4.1.1[FS]; 1.3.3.3.1.4.5[FS]; 1.7.4.4.4.5[FS]; 1.0.4.1.2[FS]; 1.4.4.15[FS]; 1.7.4.4.4.6[FS]; 1.7.4.4.5[FS]; 2.0.1.1.1.2.3[FS]; 2.0.1.1.1.2.5[FS]; 1.0.2.2.1.3.4[FS]; 1.0.3.3.2.2.4[FS]; 1.0.3.4.2.4.3[FS]; 1.0.3.4.2.3.3[FS]; 1.0.3.4.2.1.3[FS]; 1.0.4.2.16[FS]; 1.0.3.4.2.2.3[FS]; 1.0.1.1.4.7[FS]; 2.0.1.3.3.2.4[FS]; 2.0.2.2.2.1.2.1[FS]; 2.0.2.2.2.1.1.1[FS]; 2.2.4.4.2[FS]; 1.0.1.1.2.1.10.2[FS]; 1.0.1.4.4[FS]; 1.0.1.1.2.2.6.3[FS]; 1.0.3.3.1.2.2[FS]; 1.0.2.1.4.2[FS]; 1.4.1.3.16[FS]; 1.4.1.2.4.5[FS]; 1.4.1.3.17[FS]; 1.4.1.3.13[FS]; 1.4.1.2.3.5[FS]; 1.4.1.3.15[FS]; 1.4.3.4.5.12[FS]; 1.4.4.16[FS]; 1.4.1.3.14[FS]; 1.4.1.3.18[FS]; 1.0.4.2.11[FS]; 1.4.1.3.12[FS]; 1.0.4.3.4[FS]; 1.3.4.7[FS]; 2.0.1.1.1.5.2[FS]; 1.0.4.2.12[FS]; 1.0.4.2.15[FS]; 1.0.4.2.17[FS]; 1.0.4.2.13[FS]; 1.0.4.2.14[FS]; 1.0.1.1.2.1.8.2[FS]; 2.0.2.1.1.1[FS]; 2.0.1.3.2.1.1[FS]; 2.0.1.3.1.2[FS]; 1.7.4.4.2.11[FS]; 1.7.4.4.4.8[FS]; 1.0.1.1.2.1.1.4.4[FS]; 1.7.4.4.4.7[FS]; 1.0.1.1.2.1.1.4.5[FS]; 1.0.1.1.2.1.5.2[FS]; 2.0.1.1.1.13.1[FS]; 2.0.1.3.1.1[FS]; 2.0.1.1.1.13.2[FS]; 1.0.3.3.2.2.3[FS]; 1.0.3.4.4.2[FS]; 1.0.3.3.2.1.2[FS]; 1.0.3.4.1.2.1[FS]; 1.0.3.3.3.3.2[FS]; 1.0.3.3.1.1.1[FS]; 1.7.4.3.7[FS]; 1.5.7.1.5[FS]; 1.7.2.2.2.4.3[FS]; 1.5.7.3.3.4[FS]; 1.6.1.1.3.9[FS]; 1.6.2.1.2.6[FS]; 1.6.2.1.2.7[FS]; 1.5.11[FS]; 1.5.2.3.10[FS]; 1.5.2.3.9[FS]; 1.5.2.1.1.15[FS]; 1.5.5.14[FS]; 1.5.5.10[FS]; 1.5.5.12[FS]; 1.7.2.2.2.8[FS]; 1.5.5.13[FS]; 1.5.5.11[FS]; 1.7.4.4.2.10[FS]; 1.7.4.4.2.7[FS]; 1.7.4.4.2.8[FS]; 1.7.4.4.2.9[FS]; 1.7.1.6.4.1.8[FS]; 1.7.1.6.4.1.7[FS]; 1.7.2.2.2.3.5[FS]; ] |
| 2.10.9.8 | FY10 Funds Available | Complete | 0 | 01Oct09 01Oct09 | 02Nov09 02Nov09 | None | | None | | 2.10.9.7[FS] | 2.0.1.2.7.3[FS]; 2.0.1.2.1.1.17[FS+10d]; 2.5.1.1.5[FS]; 1.0.3.3.3.4[FS]; 2.0.3.2.2.1[FS]; 2.0.3.1.1.1.1[FS]; 1.0.2.1.4.2[FS]; 2.0.2.2.2.1.2.1[FF]; 2.0.2.2.2.1.3.1[FF]; 1.0.2.2.1.3.4[FS]; 2.0.2.2.2.1.1.1[FF]; 2.0.2.2.2.1.4.1[FF]; 2.10.9.9[FS]; 2.0.3.4.3.9[FS] |
| 2.10.9.9 | FY11 Funds Available | Complete | 0 | 03Jan11 03Jan11 | 01Nov10 01Nov10 | None | | None | | 2.10.9.8[FS] | 2.0.2.2.2.1.4.1[FS]; 2.6.1.1.2.2[FS]; 2.0.2.2.2.1.3.1[FS]; 2.2.4.1.4[FS]; 2.0.3.2.1.1.6[FS]; 1.0.3.2.3[FS]; 2.6.1.1.1.2[FS]; 2.10.9.10[FS]; 2.0.3.4.1.3.1[FS] |
| 2.10.9.10 | FY12 Funds Available | Complete | 0 | 03Jan12 03Jan12 | 01Nov11 01Nov11 | None | | None | | 2.10.9.9[FS] | 2.0.3.1.1.1.1[FS-60d]; 2.10.9.11[FS]; 2.2.2.5.3.1[FS] |
| 2.10.9.11 | FY13 Funds Available | Complete | 0 | 29Nov12 29Nov12 | 01Nov12 01Nov12 | None | | None | | 2.10.9.10[FS] | 2.2.2.5.4.1[FS] |
| 2.10.9.12 | Decision point for buying additional waveshifter powders | Complete | 0 | 01Dec09 01Dec09 | 11May10 11May10 | None | | None | | 2.2.3.5.3[SS+31d] | |
| 2.10.9.13 | Decision point for buying additional WLS fiber | Complete | 0 | 03Jul12 03Jul12 | 03Jul12 03Jul12 | None | | None | | 2.3.2.1.4[SS+96d] | |
| 2.10.9.14 | Decision point for buying additional APDs | Complete | 0 | 31Jan13 31Jan13 | 29Jul13 29Jul13 | None | | None | | 2.6.1.2.5.3[FS] | |
| 2.10.9.15 | Decision point for buying additional extrusions, modules, mineral oil, pseudocumene | Complete | 0 | 31Jan13 31Jan13 | 13Feb13 13Feb13 | None | | None | | 2.9.4.3.26[FS] | |
| 2.10.9.16 | EA Public Comment Period Completed | Complete | 0 | 30Apr08 30Apr08 | 30Apr08 30Apr08 | None | | None | | 1.9.5.30[FS+22d] | 2.10.9.17[FS+30d] |
| 2.10.9.17 | EA Comments Answered | Complete | 0 | 11Jun08 11Jun08 | 12Jun08 12Jun08 | None | | None | | 2.10.9.16[FS+30d] | 2.10.9.18[FS+30d] |
| 2.10.9.18 | FONSI | Complete | 0 | 11Jun08 11Jun08 | 25Jul08 25Jul08 | None | | None | | 2.10.9.17[FS+30d] | 2.10.8.1[FS] |
| 2.10.9.19 | Historic Preservation Act Programmatic Agreement Signed | Complete | 0 | 23May08 23May08 | 30May08 30May08 | None | | None | | | 2.10.8.1[FS] |
| 2.10.9.20 | DOE OHEP CD-3a Mini-review | Complete | 0 | 24Oct08 24Oct08 | 15Jan09 15Jan09 | None | | None | | 1.9.5.50[FS] | 2.10.8.1[FS] |
| 2.10.9.21 | DOE OECM - FRA EVMS Readiness Assessment | Complete | 0 | 09Jan09 09Jan09 | 01Oct08 01Oct08 | None | | None | | | 2.10.9.22[FS+42d] |
| 2.10.9.22 | DOE OECM - FRA EVMS Certification Review | Complete | 0 | 15May09 15May09 | 01Dec08 01Dec08 | None | | None | | 2.10.9.21[FS+42d] | 2.10.9.23[FS+108d] |
| 2.10.9.23 | DOE OECM - FRA EVMS Certified | Complete | 0 | 28Jan10 28Jan10 | 01Jun09 01Jun09 | None | | None | | 2.10.9.22[FS+108d] | |
| 2.10.9.24 | Director's CD-3b Review | Complete | 0 | 18Jun09 18Jun09 | 01May09 01May09 | None | | None | | 2.10.8.1[FS] | 2.10.9.25[FS+21d] |
| 2.10.9.25 | DOE OHEP CD-3b Review | Complete | 0 | 23Jul09 23Jul09 | 01Jun09 01Jun09 | None | | None | | 2.10.9.24[FS+21d] | 2.10.8.2[FS] |
| 2.10.9.27 | FNAL/Nova Internal Operational Readiness Review and CD-4 Readiness Review Assessment Completed | Planned | 0 | 02Sep14 02Sep14 | 02Sep14 02Sep14 | Not Earlier Than | 02Sep14 | None | | | 2.10.9.28[FS+23d] |
| 2.10.9.28 | DOE Independent Project Review for CD-4 Completed (Lehman Review) | Planned | 0 | 02Oct14 02Oct14 | 02Oct14 02Oct14 | None | | None | | 2.10.9.27[FS+23d] | 2.10.9.29[FS+22d] |
| 2.10.9.29 | CD-4 ESAAB Meeting Completed | Planned | 0 | 03Nov14 03Nov14 | 03Nov14 03Nov14 | None | | None | | 2.10.9.28[FS+22d] | 2.10.8.3[FS] |
| 2.10.9.30 | Module Assembly Budget and Schedule Evaluated After Block 3 Modules | Complete | 0 | 29Nov12 29Nov12 | 23May12 23May12 | None | | None | | 2.5.3.3.2.3.2.1[FS] | |
| 2.10.10 | Accelerator Shutdown Milestones | In Progress | 1488d | 06Aug07 10Jul13 | 06Aug07 01Feb13 | None | | None | | | |
| 2.10.10.1 | 2007 Shutdown Begun | Complete | 0 | 06Aug07 06Aug07 | 06Aug07 06Aug07 | None | | None | | | 1.0.1.1.2.2.3.1[FS]; 2.10.10.2[FS+49d]; 1.0.1.2.3.6[FS+10d] |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10.10.2 | 2007 Shutdown Completed | Complete | 0 | 11Oct07 11Oct07 | 15Oct07 15Oct07 | None | | None | | 1.0.1.2.3.6[FS]; 2.10.10.1[FS+49d]; 1.0.1.1.2.2.3.3[FS] | 1.0.4.2.4[FS+8d]; 1.0.4.2.5[FS+8d]; 1.0.1.1.4.1[FS]; 2.10.10.3[FS] |
| 2.10.10.3 | 2009 Shutdown Begun | Complete | 0 | 15Jun09 15Jun09 | 06Apr09 06Apr09 | None | | None | | 2.10.10.2[FS] | 1.0.2.2.2.2.1[FS]; 2.10.10.4[FS+61d] |
| 2.10.10.4 | 2009 Shutdown Completed | Complete | 0 | 10Sep09 10Sep09 | 12Jun09 12Jun09 | None | | None | | 2.0.2.2.5.1[FS]; 2.10.10.3[FS+61d] | 2.10.10.9[FS]; 1.0.1.2.5.3.1[FS]; 1.0.1.2.4.1.1[FS]; 1.0.3.2.1.3.1[FS+5d]; 1.0.1.2.5.1.1[FS]; 1.0.1.1.2.1.4.5[FS]; 1.0.1.1.5.6[FS]; 1.0.1.1.2.1.5.1[FS]; 1.0.1.1.2.2.6.3[FS]; 1.0.4.1.1[FS+100d]; 2.0.3.1.2.2[FS]; 2.0.3.1.1.1.1[FS]; 2.0.4.4.1.5[FF+75d]; 2.0.4.4.1.6[FF+75d]; 2.0.4.4.1.4[FF+75d]; 1.0.1.1.2.1.10.2[FF+17d]; 2.0.1.3.2.1.4.1[FS-5d]; 2.0.1.3.2.1.5.1[FS+10d]; 2.0.1.3.2.1.5.2[FS+10d]; 2.0.1.3.2.1.5.4[FS+10d]; 2.0.1.3.2.1.5.3[FS+10d] |
| 2.10.10.5 | Accelerator Shutdown Begun | Complete | 0 | 30Apr12 30Apr12 | 30Apr12 30Apr12 | None | | None | | 2.0.4.3.14[FS] | 1.0.3.3.2.3.2[FS+43d]; 2.0.3.4.3.5[FS]; 2.0.1.1.1.14.37.5[FS+15d]; 2.0.3.4.3.2[FS]; 2.0.3.3.3.3.2[FS]; 2.0.3.3.1.3[FS]; 2.0.1.1.4.5.17[FS]; 2.0.3.4.1.1.2[FS]; 2.0.2.1.5.9[FS+90d]; 2.0.1.1.1.14.37.2[FS+150d]; 1.0.1.1.1.6.2[FS+30d]; 2.0.2.1.5.1[FS+22d]; 2.0.1.1.1.14.39.1.1[FS]; 1.0.1.1.1.1.4[SS+10d]; 2.0.2.1.3.5[FS+30d]; 2.0.1.1.1.14.39.1.2[FS]; 2.0.1.1.1.14.38.1[FS+95d]; 2.0.1.1.1.14.34.1[SS+70d]; 2.0.3.4.1.6.5[FS]; 2.0.3.4.1.6.6[FS]; 2.0.1.2.4.1.22[SS-20d]; 2.0.3.4.1.6.4[FS]; 2.0.3.1.4.18[FS+60d]; 2.0.3.4.1.4.4[FS+95d]; 2.0.3.1.1.1.3[FS+60d]; 2.0.3.4.1.4.3[FS+20d]; 2.0.3.3.3.1.4[FS+5d]; 2.0.3.4.1.5.3[FS+90d]; 2.0.3.4.1.3.2[FS+5d]; 2.0.1.1.1.14.39.7.5[FS+32d]; 2.0.3.3.2.1.5[FS+20d]; 2.0.1.1.1.14.39.2.2[FS]; 2.0.2.1.5.5[FS]; 2.0.1.1.1.14.39.6.1[FS]; 2.0.1.1.1.14.39.5.3[FS]; 2.0.1.1.1.14.39.6.2[FS]; 2.0.1.1.1.14.39.7.2[FS]; 2.0.1.1.4.5.20[FS]; 2.8.1.3.6[FS]; 2.0.1.2.4.2.5[FS]; 2.0.1.2.4.2.6[FS]; 2.0.1.1.1.14.39.3.4[FS]; 2.0.1.1.1.14.39.3.1[FS]; 2.0.1.1.1.14.39.3.3[FS]; 2.0.1.1.1.14.39.3.2[FS]; 2.0.1.1.1.14.39.4.1[FS]; 2.0.1.1.1.14.39.4.3[FS]; 2.0.1.1.1.14.39.4.2[FS]; 2.0.1.1.1.14.39.2.1[FS]; 2.10.10.6[FS]; 2.0.1.1.1.14.30.1[FS+10d]; 2.0.1.1.1.14.29.3[FS]; 2.0.1.1.1.14.39.5.1[FS]; 2.0.1.1.1.14.39.7.3[FS]; 2.0.1.1.1.14.39.5.2[FS]; 2.0.1.1.1.14.39.7.1[FS]; 2.0.1.3.3.2.3[FS]; 2.0.1.1.1.14.39.7.4[FS]; 2.0.3.1.3.4[SS-80d]; 1.0.2.1.2.5[FS+95d]; 2.0.1.1.1.14.29.1[FS]; 1.0.3.1.2.2.7[FS+5d]; 1.0.2.1.3.4[FS+10d]; 1.0.3.1.2.2.8[FS+5d]; 2.0.2.2.3.5[FS]; 2.0.1.2.4.3.3[FS]; 2.0.1.1.1.3.5.43[FS]; 2.0.2.1.1.4[FS]; 2.0.1.1.4.5.13[FS]; 2.0.1.3.3.1.3[FS]; 2.0.2.2.4.3[FS]; 2.0.1.3.3.2.6[FS+100d]; 2.0.1.1.4.2.4[FS]; 2.0.3.4.2.1.3[FS]; 2.0.1.1.4.5.14[FS]; 2.0.3.1.1.2.3[FS]; 2.0.3.4.1.2.6[FS]; 2.0.1.1.4.5.16[FS]; 2.0.1.1.1.11.2[FS]; 2.0.2.1.6.2[FS]; 2.8.1.3.7[FS]; 2.0.1.3.2.1.6.2[FS]; 2.0.1.1.4.3.6[FS] |
| 2.10.10.6 | Accelerator Shutdown Completed | Planned | 0 | 10Jul13 10Jul13 | 01Feb13 01Feb13 | None | | None | | 2.0.1.1.1.14.39.1.1[FS]; 2.0.3.1.2.2[FS]; 2.0.1.1.1.14.39.1.2[FS]; 2.0.3.4.3.3[FS]; 2.0.1.1.1.14.39.1.3[FS]; 2.0.2.1.6.3[FS]; 2.0.3.3.2.2.8[FS]; 2.0.1.1.1.14.39.4.4[FS]; 2.8.1.4.7[FS]; 2.0.3.4.4.3[FS]; 2.0.1.1.1.14.39.2.3[FS]; 2.0.1.1.1.14.39.2.1[FS]; 2.0.1.1.1.14.39.2.2[FS]; 2.0.1.1.1.14.39.5.1[FS]; 2.0.1.1.1.14.39.5.3[FS]; 2.0.1.1.1.14.39.5.2[FS]; 2.0.1.1.1.14.39.6.1[FS]; 2.0.1.1.1.14.39.6.2[FS]; 2.0.3.1.5.1[FS]; 2.0.3.3.1.3[FS]; 2.0.3.4.4.2[FS]; 2.0.3.4.3.6[FS]; 2.0.3.3.3.3.2[FS]; 2.0.4.3.15[FS]; 2.0.3.3.4.2[FS]; 2.0.1.1.1.14.39.3.4[FS]; 2.0.1.1.1.14.39.3.1[FS]; 2.0.1.1.1.14.39.3.3[FS]; 2.0.1.1.1.14.39.4.1[FS]; 2.0.1.1.1.14.39.4.3[FS]; 2.0.1.1.1.14.39.4.2[FS]; 2.0.1.1.1.14.39.3.2[FS]; 2.10.10.5[FS]; 2.0.3.3.2.1.5[FS]; 2.0.1.1.1.14.39.7.2[FS]; 2.0.1.1.1.14.39.7.3[FS]; 2.0.1.1.1.14.39.7.4[FS]; 2.0.1.1.1.14.39.7.1[FS]; 2.0.3.1.5.2[FS]; 2.0.4.3.16[FS] | 2.8.3.3.1[FS-30d]; 2.8.3.1[FS-90d]; 2.0.4.3.17[FS]; 2.8.4.6.4[FS] |
| 2.10.10.7 | NuMI Upgrades Shutdown Begun | Complete | 0 | 01Feb13 01Feb13 | 21Aug12 21Aug12 | None | | None | | 2.0.4.4.2.13[FS]; 2.0.3.2.2.2[FS]; 2.0.3.2.4.3[FS] | 2.0.3.2.1.5[FS]; 2.0.3.3.2.3[FS]; 2.10.10.8[FS+26d]; 2.0.3.2.2.3[FS] |
| 2.10.10.8 | NuMI Upgrades Shutdown Completed | Complete | 0 | 29May13 29May13 | 20Nov12 20Nov12 | None | | None | | 2.0.3.3.2.3[FS]; 2.0.3.2.1.5[FS]; 2.0.4.4.2.8[FS]; 2.0.3.2.1.1.3[FS]; 2.0.3.4.1.3.3[FS]; 2.0.3.2.2.4[FS]; 2.10.10.7[FS+26d]; 2.0.4.4.2.12[FS]; 2.0.4.4.2.11[FS] | 2.9.4.6.24[FS]; 2.9.4.6.25[FS]; 2.0.4.3.17[FS] |
| 2.10.10.9 | 2010 Shutdown Begun | Complete | 0 | 19Jul10 19Jul10 | 01Jul10 01Jul10 | None | | None | | 2.10.10.4[FS] | 2.0.3.1.2.3[FS-20d]; 1.0.2.2.2.2.1[FS]; 2.10.10.10[FS+20d] |
| 2.10.10.10 | 2010 Shutdown Completed | Complete | 0 | 16Aug10 16Aug10 | 26Aug10 26Aug10 | None | | None | | 2.10.10.9[FS+20d] | 1.0.1.2.2.1.5[FS+10d]; 1.0.1.2.2.3.5[FS+7d] |
| 2.10.10.11 | Tevatron Collider Program Ends | Complete | 0 | 30Sep11 30Sep11 | 03Oct11 03Oct11 | Not Earlier Than | 30Sep11 | None | | | 2.0.2.1.3.5[FS+65d]; 2.0.2.1.2.5[FS+65d]; 1.0.1.1.3.2.2[FS]; 2.0.1.3.2.4.4[FS]; 2.0.1.3.2.4.2[FS]; 2.0.1.3.2.4.3[FS]; 2.0.1.3.2.5[FS]; 2.0.1.3.2.4.1[FS]; 2.0.2.1.6.1[FS+45d]; 2.0.1.1.1.11.1[FS+80d] |
| 2.10.11 | FY14 | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | Not Earlier Than | 01Oct13 | Not Later Than | 30Sep14 | | |
| 2.10.11.1 | FNAL Management 14 | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | | |
| 2.10.11.1.1 | Labor | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.1.1[FS] | |
| 2.10.11.1.2 | Travel | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.1.2[FS] | |
| 2.10.11.1.3 | Equipment | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.1.3[FS] | |
| 2.10.11.1.4 | Materials and supplies | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.1.4[FS] | |
| 2.10.11.2 | Harvard Management 14 | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | | |

# Nova Project - with status info thru 30Jun13

Filtered for All Tasks and Milestones in PMB
Shows Predecessors, Successors
and Target Dates/Constraints, if any

**Baseline: Nova_PMB**

| WBS | Activity Description | Status | Duration | Early Dates | Baseline Dates | Target Start Type | Target Start | Target Finish Type | Target Finish | Predecessors | Successors |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.10.11.2.1 | Labor | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.2.1[FS] | |
| 2.10.11.2.2 | Travel | Planned | 251d | 01Oct13 30Sep14 | 01Oct13 30Sep14 | None | | None | | 2.10.7.2.2[FS] | |