

Activity ID	WBS L2	Activity Description	Status	ETC	BAC Total	Pegpoints	Duration
1.0.1.2.2.3.5	1.0	RR Injection HV & Impedance Testing of Cable	In Progress	\$9,375	\$46,291	No	55d
1.0.1.3.2.2.1	1.0	Design Transverse Dampers	In Progress	\$0	\$0	No	52d
1.0.1.2.2.2.13	1.0	RR Injection Bumper PFN Procure Parts	Planned	\$67,342	\$67,342	No	45d
1.0.1.2.4.2.3.7	1.0	MI Inj High Voltage Testing of Prototype Tail Bumper with Test Magnet	Planned	\$160,417	\$160,417	No	83d
1.0.1.2.5.2.1	1.0	MI Inj Resonant Charger Procure	Planned	\$81,615	\$81,615	No	80d
1.0.2.1.1.6.3	1.0	RR Low Level RF System Test	Planned	\$68,481	\$68,481	No	49d
1.0.3.2.2.1	1.0	Analyze Current Hadron Monitor Design for Higher Beam Power.	In Progress	\$8,599	\$28,055	No	53d
1.0.3.4.1.6.3	1.0	Initial design of NuMI target hall RAW-room DI bottle shielding	In Progress	\$4,103	\$40,225	No	100d
1.6.5.4.3	1.6	Operate VS5	In Progress	\$31,780	\$40,683	No	200d
1.7.7.5	1.7	Consultation	Planned	\$118,500	\$117,168	No	190d
1.8.2.12	1.8	Perform FEA of FD structure and equipment - Part 2	In Progress	\$61,814	\$111,984	No	186d
1.8.5.5.33	1.8	Near Detector prototype pressure test system	In Progress	\$19,382	\$31,614	No	60d
1.8.6.1.14	1.8	Develop 3D integegration and assembly CAD model - Part 2	In Progress	\$47,605	\$48,028	No	186d
1.8.6.2.12	1.8	Develop tooling for block installation - 2	In Progress	\$942	\$2,232	No	80d
1.8.6.2.14	1.8	Develop tooling for FD block alignment - 2	In Progress	\$1,346	\$2,232	No	80d
2.0.1.1.1.4.12	2.0	Receive and inspect parts for 43 new RQN magnets	In Progress	\$43,045	\$174,869	No	65d
2.0.1.1.2.1	2.0	Final Design 53 Mhz RF System	In Progress	\$5,409	\$51,613	No	150d
2.0.1.1.1.3.5.28.2	2.0	Assemble cap bank and switch	Planned	\$52,433	\$51,576	No	75d
2.0.1.1.1.3.5.32	2.0	Assemble switch supply regulators	Planned	\$41,261	\$41,261	No	60d
2.0.1.1.1.3.8.1.3	2.0	Receive switcher cell parts	Planned	\$65,886	\$65,886	No	50d
2.0.1.1.1.4.13	2.0	Fabricate 43 new magnets	Planned	\$205,240	\$205,045	No	151d
2.0.1.1.4.5.3	2.0	Prep Req & Award PO for Pond Pumps	Planned	\$18,711	\$19,013	No	67d
2.0.1.1.4.5.5	2.0	Prep Req & Award PO for Heat Exchanger	Planned	\$14,687	\$14,924	No	67d
2.0.1.1.4.5.7	2.0	Prep Req & Award PO for Control Valve Components	Planned	\$8,746	\$8,887	No	67d
2.0.1.1.4.5.9	2.0	Prep Req & Award PO for Filtration Components	Planned	\$8,746	\$8,887	No	67d
2.0.1.1.4.5.19	2.0	Design study for MI cooling	Planned	\$32,432	\$32,432	No	60d
2.0.1.2.2.5	2.0	RR Inj & Gap Clear Inst Mags, Cables & Fluor Piping in Tunnel, Term, Connect & Test, Check 2 Sysys	Planned	\$336,211	\$340,072	No	41d
2.0.1.2.3.2.18	2.0	Receive 20 beam tubes	Planned	\$96,655	\$96,655	No	63d
2.0.1.2.3.2.19	2.0	Prep Req & Award PO for Kovar brazing of 10 beam tubes	Planned	\$15,324	\$15,324	No	42d
2.0.1.2.3.2.20	2.0	Receive 10 brazed beam tubes	Planned	\$174,888	\$174,888	No	125d
2.0.1.3.2.1.4.1	2.0	Design vacuum assembly, shield, and stand	In Progress	\$44,494	\$47,173	No	60d
2.0.1.3.2.1.4.3	2.0	Assemble detector chassis	Planned	\$13,380	\$13,380	No	60d
2.0.3.1.4.1	2.0	Iterate Profile Monitor Upgrade Final Design	In Progress	\$38,573	\$35,873	No	60d
2.0.3.2.1.1.2	2.0	Write Accord w/IHEP for ME Target	In Progress	\$1,173	\$11,645	No	52d
2.0.3.2.1.2.5	2.0	Construct Prototype Target Carrier	In Progress	\$142,358	\$203,369	No	80d
2.0.3.2.1.1.3	2.0	Construct ME Target at IHEP	Planned	\$147,818	\$145,768	No	100d
2.0.3.2.1.1.5	2.0	Write accord w/IHEP for ME target construction (Part II)	Planned	\$12,372	\$12,203	No	52d
2.0.3.2.1.4	2.0	Final assy & installation Production Target & Baffle into new carriers	Planned	\$92,934	\$92,934	No	76d
2.0.3.2.2.1	2.0	Prep Req & Award PO for Construction of Replacement Hadron Monitor (UT MOU)	Planned	\$10,190	\$9,723	No	50d
2.0.3.3.2.2.4	2.0	Prep Req & Award PO for Remote Lifting System Components	In Progress	\$3,518	\$8,392	No	45d
2.0.3.3.2.2.6	2.0	Prep Req & Award PO for Carriage Support	In Progress	\$10,870	\$12,965	No	45d
2.0.3.3.1.1	2.0	Prep Req & Award PO for Target Hall Operations Space Planning Equip	Planned	\$4,886	\$4,662	No	50d
2.1.2.4.2.1.2	2.1	UMN Fee	In Progress	\$95,509	\$376,970	No	332d
2.1.2.4.2.2.1	2.1	Fermilab Management	In Progress	\$78,158	\$313,625	No	332d
2.1.2.4.2.2.2	2.1	FESS Engineering	In Progress	\$117,239	\$470,445	No	332d
2.1.2.4.2.2.3.1	2.1	Independent fire protection review	In Progress	\$17,408	\$68,931	No	199d
2.1.2.4.2.2.3.2	2.1	Office support	In Progress	\$175,069	\$361,050	No	199d
2.1.2.4.2.2.3.3	2.1	Resident engineer support - oversight	In Progress	\$125,138	\$412,748	No	199d
2.1.2.5.7	2.1	Install Shielding for Detector Enclosure	In Progress	\$119,391	\$463,361	No	197d
2.1.2.5.11	2.1	Service Building Shell	In Progress	\$341,308	\$1,486,596	No	174d
2.1.2.5.12	2.1	Detector Enclosure/Assembly Area Electrical	In Progress	\$123,848	\$400,915	No	156d
2.1.2.5.13	2.1	Service Building Electrical	In Progress	\$177,262	\$565,656	No	222d
2.1.2.5.14	2.1	Detector Enclosure/Assembly Area Mechanical	In Progress	\$101,575	\$451,157	No	215d
2.1.2.5.15	2.1	Service Building Mechanical	In Progress	\$200,902	\$880,436	No	129d

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2.1.2.5.16	2.1	Detector Enclosure/Assembly Area Fire Protection	In Progress	\$79,067	\$891,831	No	125d
2.1.2.5.17	2.1	Service Building Fire Protection	In Progress	\$99,638	\$900,942	No	100d
2.1.2.5.18	2.1	Conveying Equipment - Elevators, Access Platform, & OH Crane	In Progress	\$101,086	\$1,271,645	No	143d
2.1.2.5.19	2.1	Site Work at Building	In Progress	\$107,224	\$1,194,780	No	78d
2.1.2.5.24.1	2.1	General Conditions	In Progress	\$66,741	\$640,395	No	368d
2.1.2.5.24.2	2.1	CM Fee	In Progress	\$31,970	\$306,758	No	368d
2.1.2.5.24.3	2.1	Contingency	In Progress	\$508,790	\$490,848	No	368d
2.1.4.4.7	2.1	3rd Party Testing Services	In Progress	\$15,361	\$170,624	No	394d
2.1.5.4.2.1	2.1	FESS/Engineering Support	In Progress	\$85,905	\$106,865	No	200d
2.1.5.4.1.1	2.1	CPPM Support	Planned	\$121,449	\$121,449	No	118d
2.1.5.4.1.2	2.1	UMN Permits	Planned	\$20,441	\$20,441	No	118d
2.1.5.4.1.3	2.1	Testing Services	Planned	\$35,071	\$35,071	No	118d
2.1.5.4.1.4	2.1	Commissioning Services	Planned	\$50,101	\$50,101	No	118d
2.1.5.4.2.2.1	2.1	Construction Phase Support	Planned	\$264,827	\$264,827	No	90d
2.1.5.4.2.2.2	2.1	Resident Engineer Support	Planned	\$188,582	\$188,582	No	90d
2.1.6.4	2.1	Data network installation	Planned	\$50,036	\$50,036	No	54d
2.3.4.1	2.3	Design and fabricate a prototype fiber loop transmission (FTL) device	In Progress	\$2,595	\$26,060	No	63d
2.3.4.2	2.3	Design and fabricate a fiber re-spooling device	In Progress	\$2,647	\$53,697	No	85d
2.4.4.4	2.4	Data-taking and analysis - FY11	Planned	\$250,151	\$250,151	No	163d
2.4.4.13	2.4	Fabricate impact tester	Planned	\$101,172	\$101,172	No	70d
2.4.5.2.4	2.4	Obtain additional pallet bridges (extrusions) and assemble pallets	In Progress	\$99,620	\$287,199	No	344d
2.4.5.3.2	2.4	Prototype caster-jack system	Planned	\$49,466	\$49,466	No	100d
2.5.3.1.13	2.5	Fabricate and deliver module flatness QA/QC device	In Progress	\$9,638	\$31,717	No	100d
2.5.3.1.16	2.5	Procure quality assurance system hardware - supplemental	In Progress	\$5,332	\$26,069	No	45d
2.5.3.2.6.8	2.5	Install quality assurance tracking system	In Progress	\$1,329	\$13,294	No	90d
2.5.3.2.6.14	2.5	Train module factory technicians	In Progress	\$28,587	\$77,726	No	128d
2.5.3.2.6.15	2.5	Train module factory student technicians	In Progress	\$407,634	\$545,151	No	712d
2.5.3.3.4	2.5	Maintain module quality assurance tracking system	In Progress	\$78,789	\$92,176	No	750d
2.5.3.1.14	2.5	Fabricate and deliver additional pressure testing equipment	Planned	\$43,179	\$43,179	No	60d
2.5.3.1.15	2.5	Fabricate and deliver additional tooling, fixtures, and safety equipment	Planned	\$115,952	\$115,952	No	311d
2.5.3.2.6.16	2.5	Train module factory student technicians - additional	Planned	\$189,219	\$189,219	No	250d
2.5.3.2.8	2.5	Closeout factory space	Planned	\$50,210	\$50,210	No	60d
2.6.1.3.0.1	2.6	Prepare documentation	In Progress	\$22,142	\$31,632	No	60d
2.6.1.3.0.2	2.6	Prepare final design drawings	In Progress	\$22,142	\$31,632	No	60d
2.6.1.3.0.4	2.6	Commission test stand	In Progress	\$21,899	\$31,632	No	65d
2.6.1.3.0.5	2.6	Install at testing site	Planned	\$39,819	\$39,819	No	42d
2.6.2.5.1.1	2.6	Construct test stands	In Progress	\$65,415	\$68,858	No	60d
2.6.3.1.2	2.6	Procure relay racks	Planned	\$90,220	\$90,220	No	60d
2.7.1.3.2.1	2.7	Run control system support for detector partitioning	In Progress	\$0	\$0	No	80d
2.7.1.3.2.7	2.7	Run control expert consultation - third release	In Progress	\$10,220	\$11,869	No	144d
2.7.1.7.4	2.7	Develop generic GUI framework for the DAQ monitoring system	In Progress	\$9,156	\$17,472	No	50d
2.8.1.3.18	2.8	Tunnel outfitting design	Planned	\$313,943	\$313,943	No	125d
2.9.1.1.12	2.9	Complete module lifting fixture design - additional	Planned	\$26,920	\$25,245	No	48d
2.9.1.4.7	2.9	Oversee assembly of pivoter components	Planned	\$28,562	\$28,562	No	50d
2.9.1.4.18.1	2.9	Procure cylinders and power unit	Planned	\$151,143	\$151,143	No	48d
2.9.1.4.18.2	2.9	Procure drive unit	Planned	\$70,132	\$70,132	No	48d
2.9.1.4.18.3	2.9	Procure upper frame	Planned	\$141,919	\$141,919	No	48d
2.9.1.4.18.4	2.9	Procure lower frame	Planned	\$120,039	\$120,039	No	48d
2.9.1.4.18.5	2.9	Procure dunnage assembly	Planned	\$63,863	\$63,863	No	48d
2.9.1.4.18.6	2.9	Procure kneeling cylinders and drive	Planned	\$73,324	\$73,324	No	48d
2.9.1.4.18.7	2.9	Procure table top	Planned	\$223,947	\$223,947	No	48d
2.9.1.4.18.8	2.9	Procure miscellaneous parts	Planned	\$141,445	\$141,445	No	48d
2.9.3.1.5.2	2.9	Develop control scheme, monitoring software	In Progress	\$2,927	\$4,304	No	60d