

NOvA Contingency Use Plan (updated version for August 2011 IPR)

(Sorted by expected decision date, Project Manager's estimate)

Priority	Item Type	Item Description	Current Cost Estimate (K\$) (does not include contingency)	Current Decision Date Estimate
	Detector	Build a new Near Detector with identical thick plastic as Far Detector	1,000	already decided, cost not well known
	Detector	Design to increase transverse size of Near Detector Cavern	300	ASAP
	Detector	RFP for larger Near Detector Cavern once design in hand	500	1-Dec-11
	Detector	Add 2nd Near Cavern to RFP as an option	-	1-Dec-11
	Detector	Exercise Option for 2nd Near Cavern	3,500	1-Aug-12
	Detector	Build a 2nd Near Detector for short baseline oscillations	500	1-Aug-12
	Detector	Build SciNOvA front end for Near Detector	3,000	1-Aug-12
	Detector	build a testbeam module of the NOvA detector	500	1-Aug-12

	Detector	Recover Far Detector 30th block (then close to 15 kt)	1,100	1-Aug-12
	Detector	Add additional 6" of Barite shielding over Far Detector	500	1-Aug-12
	Detector	Build additional Far Detector mass, up to 3 additional kt (7,300 K\$ per kt)	7,300	1-Aug-12
Total:			18,200	

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(sorted by Project Manager Priority as of August 2010)

Priority	Item Type	Item Description	Current Cost Estimate (K\$)	Current Decision Date Estimate
0	Detector	Full mock up of Near Detector in the new Fermilab building.	258	11-Jan-2010
0	Accelerator	Build more Recycler Quads	100	2-Jun-2010
0	Accelerator	Larger water chiller for NuMI	50	15-Jul-2010
1	Detector	Pay to store mixed scintillator, buffer in Chicago for Ash River	400	1-Oct-2010
1	Detector	Build additional Near Detector	3,060	1-Oct-2010
1	Detector	Build an additional FHEP block	1,780	1-Oct-2010
2	Accelerator	Recommission Fermilab long beam tube oven	150	ASAP
2	Detector	Design access around Pivoter at Ash River using commercially available powered platforms	1,500	1-Aug-2010
3	Detector	Build additional Far Detector mass, up to 4 additional kt	38,000	01-Dec-2010 for waveshifters 01-July-2011 for other parts

(sorted by Project Manager Priority as of August 2010)

Priority	Item Type	Item Description	Current Cost Estimate (K\$)	Current Decision Date Estimate
3	Accelerator	Solid state upgrade to the Booster RF system	6,000	1-Jan-2011
4	Detector	Enlarge Near Detector cavern by a factor of about 2 and instrument 2nd Near Detector	3,275	1-Jan-2011
4	Accelerator	RFQ as first section of Linac	700	1-Oct-2010
5	Detector	Add additional Barite shielding over Far Detector	500	1-Mar-2011
5	Accelerator	Add a 20th Booster RF cavity	800	?
10	Accelerator	Increase Main Injector cooling ponds	8,000	1-Mar-2011