

WBS	Task Name	% Compl	2nd Quarter			3rd Quarter			4th Quarter			1st Quarter	
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Milestones	0%											
2	MI Preparation for Commissioning	3%											
3	NuMI Checkout	1%											
4	Near Detector Checkout	0%											
5	Administrative Approvals	18%											
6	Operations Preparations	1%											
7	NuMI Commissioning	0%											
7.1	MI & NuMI set up	0%											
7.1.1	Load BPS commissioning file	0%											
7.1.2	Disable NuMI kicker & enable NuMI permit	0%											
7.1.3	Start \$23 cycle every 2 minutes. 2 turns, 30 bunches	0%											
7.1.4	Ramp NuMI magnets. Check timing & levels	0%											
7.1.5	Put Profile Monitors IN	0%											
7.1.6	Start Autotune & check magnet readbacks	0%											
7.1.7	Check readback status of all NuMI devices	0%											
7.1.8	Ensure Alarms & Limits, BLBM, BBM running	0%											
7.1.9	Ensure data-logging is on	0%											
7.1.10	Ensure MI beam quality is acceptable	0%											
7.2	First beam to NuMI	0%											
7.2.1	Enable NuMI kicker	0%											
7.2.2	Tune beam from MI to hadron absorber	0%											
7.2.3	Check losses w PM's in	0%											
7.2.4	Compare losses w PM's out	0%											
7.2.5	PM's put back in	0%											

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7.2.6	Check BPM calibration	0%											Sam Childress
7.2.7	Check calibration @ 3E11 ppp	0%											Sam Childress
7.3	Aperture Scans	0%											Sam Childress
7.3.1	Scan the Lambertson apertures	0%											Sam Childress
7.3.2	Scan NuMI apertures	0%											Sam Childress
7.3.3	Declare beam transport standard	0%											Sam Childress
7.3.4	Define BPS Golden file	0%											1/5
7.3.5	Validate Auto-tune operation	0%											Peter Lucas
7.3.6	Start tuning with correctors	0%											1/6
7.4	Horn Alignment	0%											Jim Hylan
7.4.1	Check horn 1 neck vert & hor alignment	0%											Sam Childress,D
7.4.2	Check position monitor response (concurrent)	0%											Jim Hylan
7.4.3	Check horn 1 DS end alignment	0%											Jim Hylan
7.4.4	Check horn 2 US & DS end alignment	0%											Jim Hylan
7.5	Target/Baffle Alignment	0%											Jim Hylan
7.5.1	Scan target in ME position	0%											Sacha Kopp
7.5.2	Correlate Had Mon response w tgt position (concurrent)	0%											Jim Hylan
7.5.3	Scan target in LE position	0%											Sacha Kopp
7.5.4	Correlate Had Mon response w tgt position (concurrent)	0%											Jim Hylan
7.5.5	Scan target in HE position	0%											Sacha Kopp
7.5.6	Correlate Had Mon response w tgt position (concurrent)	0%											Jim Hylan
7.6	Raise intensity & check calibration	0%											Sacha Kopp
7.6.1	Authorize operation at 1E12	0%											1/12
7.6.2	Increase intensity to 1E12 ppp	0%											Alberto Marchi

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7.6.3	Check intensity calibration @ 1E12 ppp	0%											Sam Childress
7.6.4	Check loss monitor calibration @ 1E12 ppp	0%											Sam Childress
7.6.5	Check BPM position calibration (concurrent)	0%											Sam Childress
7.6.6	Calibrate the baffle	0%											Jim Hylen
7.7	First neutrinos	0%											
7.7.1	Turn on the horn. Tgt in LE position	0%											Jim Hylen
7.7.2	Re-define BPS golden file	0%											1/13
7.7.3	Log neutrinos in ND	0%											Bruce Baller
7.7.4	Perform beam-on surveys (concurrent)	0%											Mike Gerardi
7.7.5	Check residual rates in the tunnel	0%											Mike Gerardi
7.8	Multi-batch tuning	0%											
7.8.1	Check NuMI timing with 2 batches	0%											Alberto Marc
7.8.2	Check NuMI timing with 3 batches	0%											Alberto Marc
7.8.3	Check NuMI timing with 4 batches	0%											Alberto Marc
7.8.4	Check NuMI timing with 5 batches	0%											Alberto Marc
7.8.5	Increase NuMI intensity w 5 batches	0%											Alberto M
7.9	Reduce cycle time - Mixed mode	0%											
7.9.1	Test MI "Beam Quality" BPS inputs in mixed mode	0%											Alberto M
8	Main Injector - High Intensity	0%											
8.1	Upgrade MI loss monitors in NuMI extraction region	0%											Alberto M
9	Turnover to Operations	0%											
9.1	Document tunes/settings, etc	0%											Sam Chi
9.2	Document training for future operators	0%											Sam Chi