Fermilab accelerator operations summary for FY17 – Q4

7/3/2017 – 10/2/2017

Executive Summary:

During the reporting period beam was delivered to the NuMI target for NOvA, and MINERvA data taking. Beam was also delivered to Switchyard 120 for SeaQuest and to support a program of test beam experiments at the Fermilab Test Beam Facility (FTBF), to the BNB target for MicroBooNE data taking, and to the the new muon g-2 beamline and storage ring to begin commissioning.

During the quarter there were periods of scheduled and unscheduled downtime. During the full reporting period, 1.17×10^{19} protons were delivered on target for NuMI and 5.47×10^{18} protons were delivered on the BNB target.

More detailed information is available in presentations at the weekly All Experimenters' Meetings. See reports on the web at

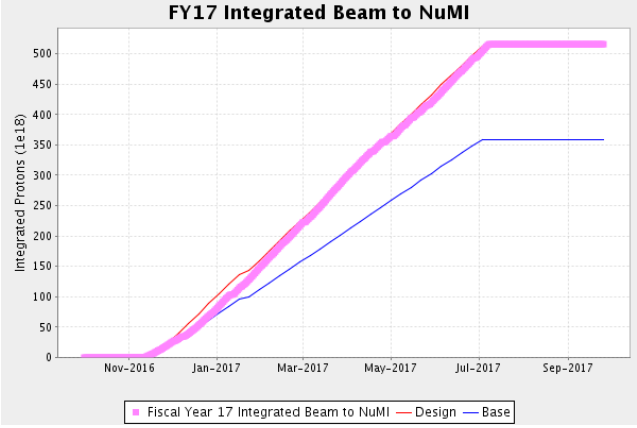
http://www.fnal.gov/directorate/program_planning/all_experimenters_meetings/index.html

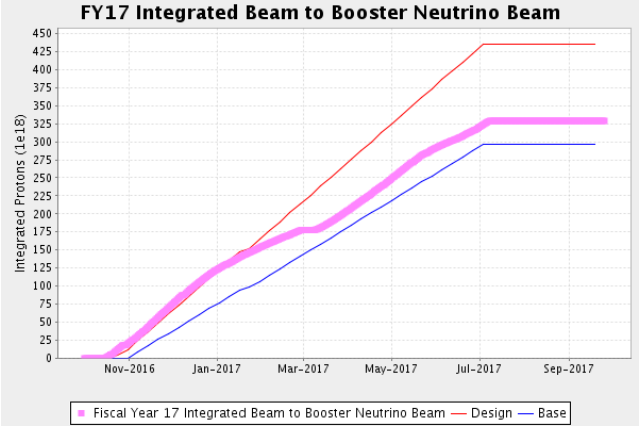
Status and Plans:

This quarter had less than a week of beam operation. Beam was turned off at noon on July 7th, to begin the scheduled maintenance period which will end on or near October 23rd.

Performance

	Metric	Achieved
Average protons on NuMI target per week	-	1.17×10^{19}
Integrated POT for NuMI for period	1.67×10^{20}	1.17×10^{19}
FY17 integrated POT for NuMI to date	**4.05×10^{20}**	**5.16×10^{20}**
FY17 actual NuMI uptime to date (hours)	-	4823.37
Percent Uptime (Recorded/Scheduled FY17)	-	88.0%
Average protons on BNB target per week	-	1.38×10^{18}
Integrated POT for BNB for period	1.28×10^{20}	5.47×10^{18}
FY17 integrated POT for BNB to date	**3.44×10^{19}**	**3.34×10^{20}**
FY17 actual BNB uptime to date (hours)	-	5544.77
Percent Uptime (Recorded/Scheduled FY17)	-	94.0%





Notes

1) ”Metric” corresponds to the projected expected Protons-on-Target. The “Design” and “Base” profiles are respectively 125% and 87.5% of the “Metric” profile. The numbers quoted correspond to the proposed FY17 metric.
2) “Achieved” corresponds to the performance during the reporting period.
3) Percent uptime (actual/scheduled) since October 2016.