

NuMI Accelerator Readiness Review Recommendations

The team of Paul Kesich, David Baird, Dennie Parzyck (FSO observer), and Don Cossairt conducted the NuMI Project Accelerator Readiness Review. The conclusion, written up in a memo dated November 24, 2004, was that “the NuMI Project was ready for safe operation contingent upon completion of those items deemed required by the project at a given stage of operations (see Recommendation No. 1). Furthermore, we suggest that documentation of the responses to the Recommendations be provided to the Senior Laboratory Safety Officer by the Project Manager prior to the closeout of the NuMI Project.”

The Accelerator Readiness Review recommendations are listed below with their status.

No.	Recommendation	Status
1.	The NuMI project should prepare a checklist of items that need to be completed prior to operations. These might be separated according to whether or not they are required for the low intensity test run scheduled for early December. It is believed that all of these items are known, but they should be written down in one place.	Done. See attached list. All items are complete. This list is also posted at: NuMI Project January 2005 Items to Complete List
2.	The readiness review documentation should be properly archived for future reference upon completion of the project and commencement of routine operations.	Done. A copy has been given to the ES&H Section, AD and PPD.
3.	An appropriate subset of the Industrial Hygiene Subcommittee will evaluate the MINOS Shaft sump pit and surface ICW tanks as well as other identified confined spaces for entry into the Fermilab Confined Spaces Database. The Chair of the Industrial Hygiene Subcommittee has placed this on the agenda for the subcommittee’s November 30, 2004 meeting.	Done. Both the MINOS Shaft sump pit and surface ICW tanks have been entered into the Confined Space Database: http://www-esh.fnal.gov/pls/default/confined_spaces.html
4.	The NuMI project should verify that written emergency operational procedures for the diesel sump pump at MINOS have been put into effect.	Done. The project has verified that a procedure has been written. Also personnel have been trained in the procedure.
5.	Certain procedures related to facility operability in the event of an emergency need to be documented by the Facilities Engineering Services Section, Accelerator Division, and Particle Physics Division in order to assure their prompt availability to maintenance personnel. Prominent	Done. See the NuMI Facility Procedures & Readiness Review (see http://www-numi.fnal.gov/doe_feb_05_review/Plant_Fac_Readiness_Rpt_Exec_Summ.pdf)

	examples are those associated with the sump pumps and the elevators. It is the review team's understanding that discussions are currently underway toward accomplishing this objective	
6.	The AD/ESH Group needs to complete a written evaluation of process water sampling locations, frequencies, and parameters related to NuMI that establishes the choices made in the sampling program. The ES&H Section Environmental Protection Team will schedule, perform, and report on the sampling of surface waters.	Done. NuMI water sampling locations and frequencies have been incorporated into the AD/ESH and the ES&H Section's Environmental Protection Team schedules.
7.	The ES&H Section Environmental Protection Team should acquire the recently-prepared subcontractor report on the impact of inflow to the upper dolomite aquifer and provide it to the NuMI documentation repository.	Done. The subcontractor report in question was received by the ES&H Section Environmental Protection Team as of 2/11/05.

NuMI Items to Complete (recommendation #1)

Status 2/05

Need for high intensity running/target in:

- 1) Pre-Target final alignment (done)
- 2) Target hall chase air system installed/tested, concrete on top of center of pile, sealing of target chase (done)
- 3) Fencing around transmission line inside TH installed (done)
- 4) Final ventilation system controls in place (done)
- 5) Poly shielding of the stripline penetration (done)
- 6) Appropriate sealing of firewall penetrations (done)
- 7) S&S procedures written (done)
- 8) RAW system modifications as per AD ES&H (done)
- 9) Target Chase Cooling system documentation and review (done)