

Operations Readiness Overview

Operational readiness of the NuMI primary beam, secondary beam and Near Detector is verified by reviews performed by the NuMI Environmental, Safety and Health/Quality Assurance (ESH/QA) Review Committee. This committee was appointed jointly by the AD and PPD Heads and is charged with the responsibility of assuring that the NuMI line organization has developed the NuMI beamline and detector in accordance with all applicable ES&H regulations, standards and good practices. Safety reviews and inspections are performed during the course of design, construction, installation and pre-commissioning of components. Startup and testing of MINOS Near Detector subsystems required the approval of this committee and the PPD Head. The MINOS Near Detector has regularly collected cosmic ray data since receiving its Operational Readiness Clearance. The committee also advised the University of Minnesota in starting cosmic ray data collection with the MINOS Far Detector. The start of initial and routine operation of the NuMI beam requires explicit approval by this Committee as well as AD Operations and the Director. At the Project level, checkout is a multi-step process that culminates in the documentation of readiness by the Level 3 or Level 2 manager responsible for the system on the *NuMI Project WBS 1.1 NuMI Technical Components Level 3 System Completion Certification for CD-4* and on the *NuMI Project WBS 2.0 MINOS Detectors Level 2 System Completion Certification*.

In December 2004, the NuMI Project Manager requested a review to assess the readiness of the laboratory to assume responsibility for the physical plant of the NuMI facility. This review included discussions with staff from the Facilities Engineering Services Section, AD/ES&H Building Management, and PPD/ES&H Building Management. The readiness for all components reviewed was rated from fair to excellent.

The Safety Envelope and the Running Conditions are approved. The beamline Run Condition documents the radiation safety interlock status and any administrative controls that must be in place before Operations is authorized to transport beam. The Run Condition states the maximum beam intensity that is authorized. As all system checkouts and safety reviews are now completed, the NuMI facility is physically ready for commissioning with beam, in accordance with AD Policy.