

Trained and Qualified Operations and Maintenance Staff Overview

The operation and maintenance of most elements of the NuMI Project are similar in nature to the existing elements in the other areas at Fermilab and thus personnel are trained in the operation and maintenance of most or the Project elements. A few exceptions exist and the documentation for these elements is described below. Personnel have been trained on these procedures and training will continue as procedures are updated and modified to fit the needs of the program. As part of the Fermilab Building Management Program, Building managers have been assigned to the NuMI Facilities. Each building manager is required to develop an understanding and working knowledge of the assigned building systems. In addition, the building manager is made aware of hazards which may be permanently or temporarily contained within a building as well as the general operations carried out on a day-to-day basis within a given building.

The AD Operations Department has a long-standing, well-documented training program for its personnel, consisting of reading materials, videotapes, lectures, walk-arounds, self-assessment quizzes, and on-the-job training (OJT). Operation of the NuMI facility is being integrated into this program as well. Personnel accessing any part of the NuMI underground facility are also required to take NuMI specific underground training.

All personnel working the underground facilities at MI-65 and MINOS sites are required to attend a one hour training course presently entitled NuMI Installation Safety Training. The course includes discussion on facility layout, significant hazards, occupancy requirements, personnel protective equipment requirements, access control procedures, and emergency procedures. Additional training also required prior to working in either facility includes the appropriate radiation safety training and at the MI-65 facility LOTO II. At present the Fermilab Fire Department takes an annual mine rescue training class. The Laboratory's Fire Department personnel are familiar with the layout of the facilities and understand how to gain access to the area in the event of an emergency. As new Fermilab or subcontractor personnel are assigned to work in the NuMI areas, they will be trained as necessary.

The MINOS collaboration provides scientific monitoring and datataking control of the MINOS detectors. During NuMI beam operations, such control will normally be available on a continuous basis. Fermilab users in the MINOS Collaboration are trained in accordance with the provisions of the *MINOS Training Guide* for work at Fermilab and receive site-specific training at Soudan. Technical support capabilities are provided by detector subsystem experts as needed. The Physics Research Equipment Pool (PREP) staff of the Computing Division is trained and experienced in the maintenance and repair of MINOS electronics. In addition, trained minecrew members at the Soudan Underground Laboratory provide technical support for the MINOS Far Detector.