

APPENDIX B

FERMILAB SAFETY CONSIDERATIONS

B.1 General

The superconducting solenoid, service chimney, control dewar, refrigeration system, energization system, and the protection and control system, will be designed and built in accordance with applicable Fermilab Environment Safety and Health (ES&H) policies. To ensure that this goal is achieved the system will be reviewed by the independent DØ Cryogenic Safety Review Panel. This panel will be provided with documentation in order to make recommendations to the Research Division head. A signed approval from the Research Division head is required before the system can be put into operation.

Fermilab ES&H chapter 5032, "Cryogenic System Review", specifies the various ES&H chapters which must be followed and the documents required. Initial safety review by the DØ Cryogenic Safety Panel will have begun prior to the initiation of procurement of the system. This review will be based on the information in this document. After a vendor has been selected, that firm will provide a comprehensive conceptual design for approval by Fermilab. The DØ Cryogenic Safety Panel will begin study of this material in depth as part of the overall Fermilab approval of its content. When the complete engineering design is presented by the vendor, the Safety Panel is expected to be able largely to complete its work. If safety-related issues arise at any time in the foregoing process, the vendor must provide calculations, drawings, and test data as required by the Fermilab Safety Panel.

Because the refrigeration, energization, and control and protection systems will be designed and installed by Fermilab the safety review of these elements of the system will be paced by the in-house design, fabrication and installation activities of these components.