

Attachment A (to Appendix B)
FY1996 ES&H Accomplishments

A. ES&H Activity Data Sheets (ADSs)

In FY96, Fermilab completed nearly all of its ES&H compliance and improvement activities consistent with the funding profile and schedule captured in the Plan while many of the activities began prior to FY96, the following list those activities completed and closed-out in FY96. The specifics of these accomplishments are as follows:

1. Fire-Induced Hazardous Material Release Evaluation (A93D0009)

Fermilab has upgraded its Emergency Management Program to achieve compliance with applicable DOE Emergency Preparedness Orders and NFPA Codes.

2. RD Service Building Fire Alarm Upgrade (A93D0011)

Fermilab's existing fire protection program was upgraded to achieve compliance with existing fire codes and applicable DOE directives. This effort involved elimination of flammable gas lines from cable trays and the replacement of obsolete fire alarm detection systems in structures operated by program funded organizations.

3. Electrical Safety Program Upgrades (A93D0020/1)

Fermilab has reviewed, revised, and expanded existing programs, policies, and training requirements in compliance with OSHA and applicable DOE requirements related to training of non-qualified employees who are exposed to electrical hazards in the basics of electrical safety.

4. Industrial Safety Program Upgrades (A93D0022/3)

Fermilab's Industrial Safety Program was brought into compliance with applicable DOE and OSHA requirements including its eye safety, pressure relief inspection, compressed gas storage, machine guarding, and hoisting and rigging equipment management programs.

5. Fermilab Guide for Experimenters (A93D0024)

A program was developed which formally designates experiment status (i.e., commission, standby, or

operate) to experimenters. This Guide will eliminate the possibility of an experimenter operating an experiment without proper authorization and documentation.

6. Maintenance Program Compliance (A93D0025)

The maintenance activities of all organization units at Fermilab were evaluated and compared with the ES&H requirements of DOE 4330.4A and other applicable orders and standards. Maintenance plans were developed for each division/section for their assigned areas of maintenance responsibilities.

7. Personal Protection Equipment (PPE) Program (A93D0031)

Fermilab's PPE program was upgraded to ensure that requirements are clearly specified and personnel are adequately trained in proper usage.

8. Self-Assessment Activity Upgrades (A93D0039)

Fermilab's Self-Assessment Program was reviewed and deficiencies were addressed to bring the program into compliance with DOE requirements. Activities included QA, emergency preparedness, incident investigation, safety review procedures, and assessor training, as well as the close-out of findings.

9. Hazard Communication Program (A94D0007)

Fermilab's Hazard Communication program was revised and implemented. Workplace specific and transferred employee Hazcom training was improved.

10. Radiation Control Technician Training (A94D0011)

Fermilab's Radiation Guide was reviewed, updated, and renamed the Fermilab Radiological Control Manual. All applicable requirements were included and compliance was mandated for all divisions/sections.

11. Industrial Cooling Water (ICW) - Fire Main Piping Upgrades (A94D0023)

The site-wide ICW distribution network was improved, including the reinforcement of the ICW piping network, shoreline stabilization of Casey's Pond, and return cleanout and stabilization.

12. Feynman Computing Center (FCC) Fire Alarm Indicator (A94D0030)

Fermilab's FCC fire alarm system was converted from a passive system to an active system. Upon further review of this ADS, Fermilab decided not to invest in the graphical device that would automatically display the location of the alarm detection which was also included in this ADS.

13. Wilson Hall Life Safety Upgrades (A94D0041)

A new fire alarm system and command center in Wilson Hall was constructed. The new alarm system is "point addressable" and included elevator recall, voice evacuation, HVAC shutdown, sprinkler system valve supervision and construction of Fire Department Command Center facilities.

14. Underground Storage Tank Removal (A95D0001)

Following the construction and operation of the Fuel Service Center, the existing 12,000 and 2,000 gallon underground storage tanks and their associated fuel dispensing system at Site 38 were removed and the site was restored.

15. Hazardous Waste Storage Facility Improvements (A95D0002)

The area within the Hazardous Waste Storage Facility compound was improved by covering/replacing the existing crushed limestone hardstand with sufficient asphalt to withstand loads up to 80,000 pounds. The surface was graded to assure storm water runoff away from the buildings, restoring the previous natural flow.

16. Chipmunk Construction Project (A95D0004)

Additional chipmunks were added to inventory in order to meet the Lab's radiation shielding design criteria in several areas. Design improvements were also made to the instrument's electronics.

17. Wilson Hall Fire Separation (A95D0007)

Smoke barrier upgrades were made in selected areas of Wilson Hall, including sealing floor penetrations, replacing smoke and fire damper fusible links, installation of cut damper access covers, removal of

some walls and penetrations, and installation of other walls to maintain compliance with the Life Safety Code.

18. Traffic Control and Automatic Gates - Operating
(A95D0012)

Fermilab has restricted site access for the public through the use of security personnel.

B. General Plant Projects (GPP)

GPP funding was applied to a number of ES&H projects in FY1996 in accordance with the schedule contained in the plan. As noted in the ES&H ADSs above, the projects completed in FY96 included: Casey's Pond Stabilization, Fire Protection Water System Renovation, Wilson Hall Life Safety code upgrades, Site 38 Underground Storage Tank closure, and Research Division service buildings fire alarm upgrades. Not included in the ADSs above but also completed in FY96 was the Site Wide Emergency Warning System upgrade. In addition, the following ES&H related general plant projects were started in FY96: Lab 1, Lab 4 and machine shop fire protection upgrades (\$255K), Emergency Operations Communication Center construction (\$332.2), Site Entry Main Gates construction (\$399.8), Domestic Water Flow Back Flow Prevention upgrades (\$958), and Wilson Hall Training Center construction (\$965).