**Department of Energy**
Fermi Site Office
Post Office Box 2000
Batavia, Illinois 60510

SEP 12 2011

Dr. Bruce L. Chrisman
Chief Operating Officer
Fermilab
P.O. Box 500
Batavia, IL 60510

Dear Dr. Chrisman:

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DETERMINATION AT FERMI NATIONAL ACCELERATOR LABORATORY (FERMILAB) – IB-1 MEZZANINE RENOVATION PROJECT

Reference: Letter, from B. Chrisman to M. Weis, dated September 7, 2011, Subject: National Environmental Policy Act (NEPA) Environmental Evaluation Notification Form (EENF) for the IB-1 Mezzanine Renovation Project

I have reviewed the Fermilab EENF for the IB-1 Mezzanine Renovation Project. Based on the information provided in the EENF, I have approved the following categorical exclusion (CX):

| Project Name | Approved | CX |
|---|---|---|
| IB-1 Mezzanine Renovation Project | 9/09/2011 | B1.15 |

I am returning a signed copy of the EENF for your records. No further NEPA review is required. This project falls under a categorical exclusion provided in *10 CFR 1021*, as amended in November 1997.

Sincerely,

Michael J. Weis
Site Manager

Enclosure:
As Stated

cc: P. Oddone, w/o encl.
Y. - K. Kim, w/o encl.
N. Grossman, w/encl.
T. Dykhuis, w/encl.

# FERMILAB ENVIRONMENTAL EVALUATION NOTIFICATION FORM

**Project/Activity Title:** Industrial Building (IB)-1 Mezzanine Renovation
**ES&H Tracking Number:** 01095
**Funding Source:** M&S Operating
**Fermilab Project Owner:** Leslie D. Peters (X4722)

I hereby certify via my signature that every effort would be made throughout this project to comply with the commitments made in this document and to pursue cost-effective pollution prevention opportunities. Pollution prevention (source reduction and other practices that eliminate or reduce the creation of pollutants) is recognized as a good business practice which would enhance site operations thereby enabling the Lab to accomplish its mission, achieve environmental compliance, reduce risks to health and the environment, and prevent or minimize future DOE legacy wastes.

**Fermilab Project Owner: Leslie D. Peters**

**Signature** _____

**Date** 8/31/2011

**Fermilab NEPA Reviewer: Teri L. Dykhuis**

**Signature** Teri L. Dykhuis

**Date** 9/6/2011

## I. Description of the Proposed Action and Need

**Purpose and Need:**
The purpose of the proposed renovation to the Fermilab Industrial Center, IB-1 mezzanine (which is located at the southwest corner of IB-1) is to replace the heating, ventilation, and air conditioning (HVAC) system; repair the floor structure on one bay; and increase the number of offices from 6 to 8. This renovation is needed to accommodate the additional personnel necessary for safe and efficient operation of IB-1 due to continued expansion of the superconducting radio frequency (SRF) Test Facility. In addition, the new HVAC system is needed to ameliorate health concerns resulting from mold caused by the icing up and leaking of the existing unit which is at the end of life and requiring frequent repair and maintenance. Finally, the floor structure repair is needed to save the existing office space by bringing the current substandard wooden floor decking up to an appropriate rating that would bear the furniture loads of a normal office.

**Proposed Action:**
As stated above, this project involves three elements. The first would be to provide new HVAC systems to serve the mezzanine as well as all of the office and control room spaces below. The existing rooftop HVAC unit and chiller unit would be removed and a new HVAC rooftop unit installed, along with a new separate "split system" to serve the control room. The concept of two systems would provide energy savings, due to the ability to isolate the control room to serve its 24/7 requirements. The second element is the repair of the floor structure on one bay of the mezzanine. The third portion is the removal of the six offices currently located on the mezzanine and their replacement with eight new offices. This area encompasses about 1200 square feet including corridor space. The work would include new ceiling, mechanical, electrical and lighting. The private offices would be constructed utilizing demountable full height walls that would provide full privacy while facilitating future reconfiguration if the need arises.

**Alternatives**
The "no action" alternative would not allow the above stated purpose and need to be fulfilled.

## II. Description of the Affected Environment

The project would be contained within the existing area of the IB-1 mezzanine which is approximately 1500 square feet.

## III. Potential Environmental Effects (If the answer to the questions below is "yes", provide comments for each checked item and where clarification is necessary.)

A. Sensitive Resources: Would the proposed action result in changes and/or disturbances to any of the following resources?

- ☐ Threatened or endangered species
- ☐ Other protected species
- ☐ Wetland/Floodplains
- ☐ Archaeological or historical resources
- ☐ Non-attainment areas

B. Regulated Substances/Activities: Would the proposed action involve any of the following regulated substances or activities?

- ☐ Clearing or Excavation
- ☒ Demolition or decommissioning
- ☒ Asbestos removal
- ☐ PCBs
- ☒ Chemical use or storage
- ☐ Pesticides
- ☐ Air emissions
- ☐ Liquid effluents
- ☐ Underground storage tanks
- ☒ Hazardous or other regulated waste (including radioactive or mixed)
- ☐ Radioactive exposures or radioactive emissions
- ☐ Radioactivation of soil or groundwater

C. Other Relevant Disclosures: Would the proposed action involve any of the following actions/disclosures?

- ☐ Threatened violation of ES&H permit requirements
- ☐ Siting/construction/major modification of waste recovery or TSD facilities
- ☐ Disturbance of pre-existing contamination
- ☐ New or modified permits
- ☐ Public controversy
- ☐ Action/involvement of another federal agency
- ☐ Public utilities/services
- ☐ Depletion of a non-renewable resource

## IV. Comments on checked items in section III.

**Demolition and Decommissioning**

The renovation of the office space would include the demolition of 6 offices which is approximately 1200 square feet. The Technical Division (TD) would have a subcontractor (K. Hoving) bring in dumpsters to collect the demolition waste and they would recycle as much as possible.

**Chemical use or storage**
The renovation work would also consist of the removal of an HVAC unit and a chiller unit; the removal of the HVAC unit would require the collection of refrigerant and this work would be performed by a licensed technician who would work with the FESS Refrigerant Management Group.

**Hazardous or other regulated waste**
The removal of the chiller would require the collection and disposal of a glycol/water mixture. This work would be coordinated through the TD Waste Coordinator to be managed by the Fermilab Hazard Control Technology Team.

**Asbestos removal**
The chiller also contains insulation that may contain asbestos. This determination has not yet been made but if the insulation is found to be asbestos, TD would bring in a licensed subcontractor to properly manage the asbestos removal.

## V. NEPA Recommendation

Fermilab staff have reviewed this proposed action and concluded that the appropriate level of NEPA determination is a Categorical Exclusion. The conclusion is based on the proposed action meeting the description found in DOE's NEPA Implementation Procedures, 10 CFR 1021, Subpart D, Appendix B1.15 which states: "Siting, construction, (or modification), and operation of support structures (including but not limited to, trailers and prefabricated buildings within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible). Covered support buildings and structures include those for office purposes: parking; cafeteria services; education and training; visitor reception; computer and data processing services; employee health services or recreation activities; routing maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (including security posts); dire protection; and similar support purposes, but excluding facilities for waste storage activities; except as provided in other parts of this appendix."

## VI. DOE/CH-FAO NEPA Coordinator Review

Concurrence with the recommendation for determination:

**Fermi Site Office (FSO) Manager: Michael J. Weis**

**Signature** _____

**Date** 9/12/11

**FSO NEPA Coordinator Reviewer: Rick Hersemann**

**Signature** Rick Hersemann

**Date** 9/9/11