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

October 13, 2017

Ms. Martha E. Michels
Chief Safety Officer
Fermilab
P.O. Box 500
Batavia, IL 60510

Dear Ms. Michels:

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT DETERMINATION AT FERMI NATIONAL ACCELERATOR LABORATORY – DEMOLITION OF LAB 8 STRUCTURES

Reference: Letter, from M. Michels to R. Hersemann, dated October 5, 2017, Subject: National Environmental Policy Act Environmental Evaluation Notification Form for the Demolition of Lab 8 Structures

The Fermi Site Office has reviewed the National Environmental Policy Act (NEPA) Environmental Evaluation Notification Form (EENF) for the Demolition of Lab 8 Structures. Based on the information provided in the EENF, the following categorical exclusion (CX) is approved:

Project Name	Approved	CX
Demolition of Lab 8 Structures	10/10/2017	B1.16, B1.23

Enclosed is signed copy of the EENF for your records. No further NEPA review is required. This project falls under categorical exclusions provided in 10 *CFR* 1021, as amended in November 2011.

Sincerely,

Michael J. Weis
Site Manager

Enclosure:
As Stated

cc: N. Lockyer, w/o encl.
J. Lykken, w/o encl.
T. Meyer, w/o encl.
B. Iverson, w/o encl.
T. Dykhuis, w/encl.

FERMILAB ENVIRONMENTAL EVALUATION NOTIFICATION FORM (EENF) for documenting compliance with the National Environmental Policy Act (NEPA), DOE NEPA Implementing Regulations, and the DOE NEPA Compliance Program of DOE Order 451.1B

Project/Activity Title: Demolition of Lab 8 Structures
ES&H Tracking Number: 01141

I hereby verify, via my signature, the accuracy of information in the area of my contribution for this document and that every effort would be made throughout this action 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 Fermilab to accomplish its mission, achieve environmental compliance, reduce risks to health and the environment, and prevent or minimize future Department of Energy (DOE) legacy wastes.

Fermilab Action Owner: Jonathan Hunt (X4312)
Signature and Date 9/21/17

I. Description of the Proposed Action and Need

Purpose and Need:
The purpose of the proposed action/project is to remove idle/vacant buildings at Lab 8 to avoid safety concerns and subsequent liability as well as the costs associated with continued maintenance and utility services.

Proposed Action:
This proposed action would include the removal of the following idle/vacant buildings, that were primarily used for offices and meeting rooms, except 27a Blackhawk which was used for routing plastics, carbon fiber, and scintillator:

Lab 8 House – 25 Blackhawk (FIMS 118)
Lab 8 Butler Building – 27a Blackhawk (FIMS 186)
Lab 8 House – 27 Blackhawk (FIMS 120)
Lab 8 House – 29 Blackhawk (FIMS 121)
Lab 8 Shelter (FIMS 187)
Lab 8 South – 25a Blackhawk (FIMS 119)

The structures would be removed from the Fermilab site and recyclable materials would be separated and recycled where possible. The ground would be backfilled, leveled and seeded with turf grass.

Alternatives Considered:
The 'no action' alternative would not meet the purpose and need. It would also allow non-functional and/or vacant structures to stand, wasting resources on maintenance and utility services. These structures are unsuitable for alternate uses due to their deteriorated condition.

II. Description of the Affected Environment

This proposed action would completely remove the above-mentioned structures. Any excavated areas would be backfilled to match existing grade, leveled, and seeded. No wetland permit or floodplain mitigation would be necessary. Any existing utility services such as communications, power, gas, sanitary and domestic water would be disconnected and properly terminated. Additional environmental effects are included in Section III.

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.

Clearing and Excavation
The footings around the perimeter of the structures would be dug out and backfilled. Also, any utility services into the building would be excavated, cut, and capped. The approximate volume of spoils would be 100 cubic yards. The action is less than 1 acre; therefore, a Storm Water Pollution Prevention Plan is not necessary and soil erosion control measures should not be necessary.

Demolition or decommissioning
This proposed action would completely remove the designated structures.

Asbestos removal
The structures would be inspected/tested for asbestos prior to demolition.

Hazardous or other regulated waste
The work would consist primarily of the demolition, removal, and recycling of various building materials. The Subcontractor would be required to dispose of all Construction and Demolition waste with a recycling vendor and obtain a report on the amounts of each material recycled for submittal to Fermilab. Prior to demolition, the structures would be inspected, and in some cases tested, for the presence of any regulated waste materials/items. Regulated waste would be segregated prior to removal by the Subcontractor. Recycling of metals would be coordinated with the Radiation Safety Group.

Public utilities/services
The demolitions would require shut-offs for local gas, power, communication, sanitary, and domestic water services for removal and capping.

V. NEPA Recommendation

Fermilab staff has evaluated the proposed action and believe a Categorical Exclusion is appropriate. It is believed that the proposed action meets the description found in DOE's NEPA Implementation Procedures, 10 CFR 1021, Subpart D, Appendix B1.16, and B1.23 as follows.

B1.16 Asbestos Removal
Removal of asbestos-containing materials from buildings in accordance with applicable requirements (such as 40 CFR part 61, "National Emission Standards for Hazardous Air Pollutants"; 40 CFR part 763, "Asbestos"; 29 CFR part 1910, subpart I, "Personal Protective Equipment"; and 29 CFR part 1926, "Safety and Health Regulations for Construction"; and appropriate state and local requirements, including certification of removal contractors and technicians).

B1.23 Demolition and Disposal of Buildings
Demolition and subsequent disposal of buildings, equipment, and support structures (including, but not limited to, smoke stacks and parking lot surfaces), provided that there would be no potential for release of substances at a level, or in a form, that could pose a threat to public health or the environment.

Fermilab NEPA Program Manager: Teri L. Dykhuis
Signature and Date Teri L. Dykhuis 10/4/2017

VI. DOE/Fermi Site Office (FSO) NEPA Review

Based upon my review of information conveyed to me and in my possession concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1A), I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

FSO NEPA Compliance Officer: Rick Hersemann
Signature and Date Rick Hersemann 10/10/2017

VII. Appendix – Diagrams

Location of Demolition sites are found in diagram on the following page.

Lab 8 Structures