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

SEP 20 2013

Mr. Jack W. Anderson
Chief Operating Officer
Fermilab
P.O. Box 500
Batavia, IL 60510

Dear Mr. Anderson:

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DETERMINATION AT FERMI NATIONAL ACCELERATOR LABORATORY (FERMILAB) – PARTICLE PHYSICS DIVISION (PPD) OUTBACK GARAGE

Reference: Letter, from J. Anderson to M. Weis, dated September 10, 2013, Subject: NEPA Environmental Evaluation Notification Form (EENF) for the PPD Outback Garage

I have reviewed the Fermilab EENF for the PPD Outback Garage. Based on the information provided in the EENF, I have approved the following categorical exclusion (CX):

Project Name	Approved	CX
PPD Outback Garage	9/18/2013	B1.15

I am returning a 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.
M. Michels, w/encl.
A. Kenney, 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 451.1

Project/Activity Title: Particle Physics Division (PPD) Outback Garage

ES&H Tracking Number: 01108

I hereby verify, via my signature, the accuracy of information in the area of my contribution for this document and that every effort will 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 will 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 Project Owner: Karen Kephart (X6625)

Signature and Date K.M. Kephart 09/09/13

Fermilab Project ES&H Coordinator: Kate Sienkiewicz (X4313)

Signature and Date Kate Sienkiewicz 09/10/13

I. Description of the Proposed Action and Need

Purpose and Need:
The purpose of this project is to build a temperature-controlled garage for the purpose of housing four (4) Alignment Group vehicles that contain high precision instrumentation. The calibration time of some of the equipment can be lengthy, so by having a temperature controlled garage, once the equipment is calibrated, it can remain so until the Alignment Group action is completed.

Proposed Action:
This action would involve excavation to build a foundation for the garage and the final footprint of the building and covered walkway for the PPD Outback Garage (see attached site map) would be approximately 1800 square feet but cover less than 1 acre. The attached map shows existing utilities in the area, none of which are included in the footprint of the project. The project would include two phases: site preparation in the autumn of 2013 and building erection in the spring of 2014

Alternatives Considered:
This garage would be situated with direct access to the Alignment Group office spaces within the D-Zero Outback building. Equipment would be housed within office spaces until needed for an activity, at which point the equipment would need to be transported into the vehicles for calibration and use. Buildings on the other side of the compound were inadequate due to distance, as well as environmental control (temperature control via heating and air conditioning to maintain calibration of equipment). The 'no action' alternative would not meet the purpose and need of this activity as stated above.

II. Description of the Affected Environment

The footprint of this project would be approximately 1800 square feet but cover less than 1 acre and therefore a storm water pollution prevention plan (SWPPP) is not necessary. Standard erosion control measures would be used to protect against erosion, following the Illinois Urban Manual. Additional environmental effects are listed in Part IV.

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: Will 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: Will 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: Will 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 or Excavation

The excavation would result in approximately 1000 cubic yards of material during the foundation construction. Where possible the material would be reused within the foundation and the remaining would be incorporated into existing landscape to the extent possible. Unsuitable materials would remain on the Fermilab site in designated stockpiles.

Construction debris would be recycled as described in the FESS contract Exhibit A - specifically, the goal for recycling construction and demolition waste is 80% based on weight, with a minimum of 50% by weight.

Air Emissions

There would be an electric Heating, Ventilation, and Air Conditioning (HVAC) system containing a

chemical refrigerant that would be tracked via the Refrigerant Management Program.

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 buildings and support structures (including, but not limited to, trailers and prefabricated and modular 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, but are not limited to, those for office purposes; parking; cafeteria services; education and training; visitor reception; computer and data processing services; health services or recreation activities; routine maintenance activities; storage of supplies and equipment for administrative services and routine maintenance activities; security (such as security posts); fire protection; small-scale fabrication (such as machine shop activities), assembly, and testing of non-nuclear equipment or components; and similar support purposes, but exclude facilities for nuclear weapons activities and waste storage activities, such as activities covered in B1.10, B1.29, B1.35, B2.6, B6.2, B6.4, B6.5, B6.6, and B6.10 of this appendix."

Fermilab NEPA Program Manager: Teri L. Dykhuis

Signature and Date Teri L. Dykhuis 9/10/13

VI. DOE/FSO NEPA Coordinator Review

Concurrence with the recommendation for determination:

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

Signature and Date 9/19/13

FSO NEPA Coordinator: Rick Hersemann

Signature and Date Rick Hersemann 9/18/13

VII. Figures

Site Information

The figures below show the location of the proposed garage, as well as the utilities currently in the surrounding area. The only utility required at the garage is electric (shown as red in Figure 2).

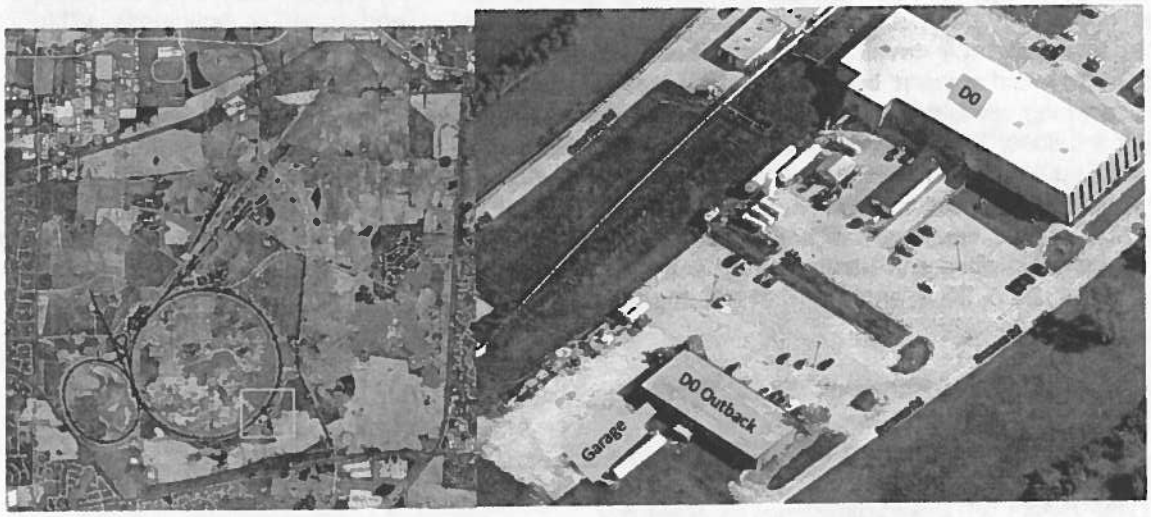

Figure 1 – Site and Garage Location

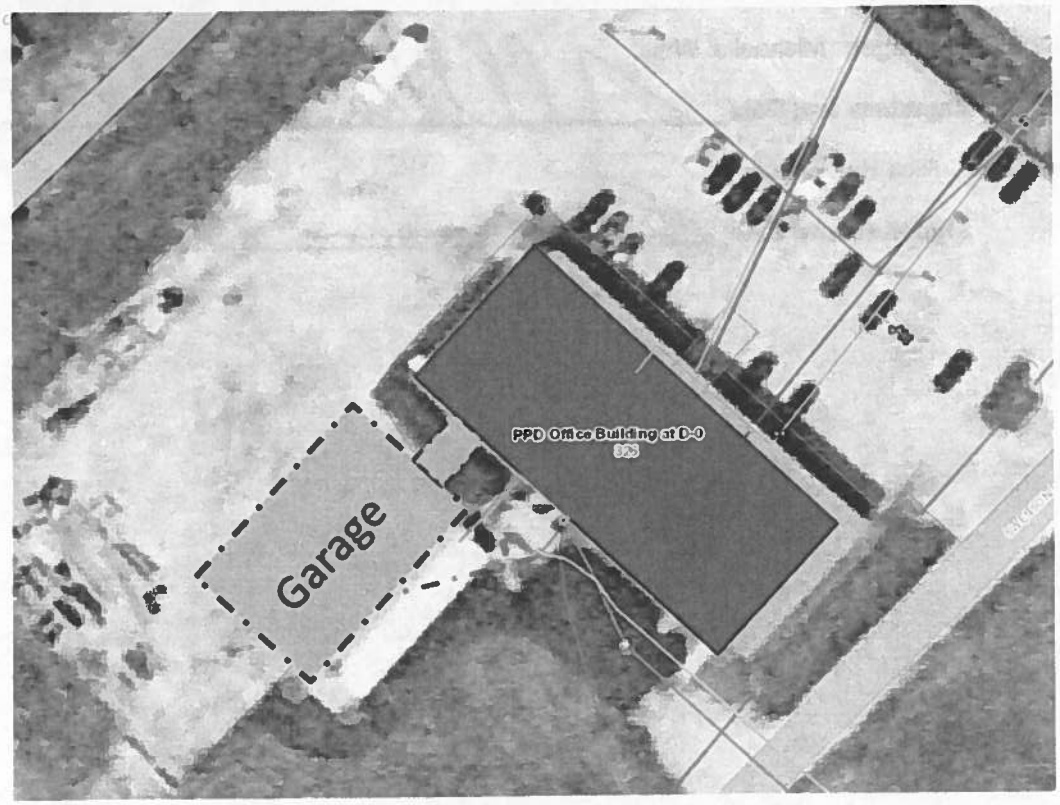

Figure 2 – Existing Utilities. Electric (red) will have to be connected to the building (complete legend on next page).

Updated: 11/30/2011

Fermi Map Legend

Facilities

Building-Trailer

Property Type

- Building
- Trailer
- Enclosure

Roads and Grounds

- Ag

Mowing

- Turf
- Several Mowings
- Monthly
- Biannual
- Annual
- Biennial
- Prairie Tracts
- Fire Management

Land Planning

- Archaeology
- Soil Borings
- Monitoring Wells
- Easements
- Regulated Area
- Regulated Area 50ft buffer
- Prohibited Excavation Waiver Areas

Basemap

- Roads
- Parking Lots
- Streams
- Ponds
- Fermi Boundary

Utilities

Industrial Cooling Water

- ICW
- Abandoned
- Buffalo Box
- Check Valve
- Hydrant
- Post Indicator Valve
- Valve

Pond Water

- Discharge Pipe
- Intake Pipe
- Sump Discharge Pipe
- Transfer Pipe
- Discharge Structure
- Intake Structure
- Pump Vault
- Transfer Manhole
- Transfer Structure
- Sump Discharge Outfall
- Control Structures

Domestic Water System

- DWS pipes
- Abandoned
- Buffalo Box
- Curb Box
- Fire Hydrant
- Flushing Hydrant
- Vault Box
- Yard Hydrant

Sanitary Sewer

- Force Main
- Gravity
- Abandoned
- CAP
- Cleanout
- Holding Tank
- Lift Station
- Manhole
- Reducer
- Surge Tank
- VAULT
- Valves

Gas

- Natural Gas Pipes
- Non-FNAL Gas
- Gas Abandoned
- Gas Manhole
- Gas Valve
- Meter
- Press. Reducing Station
- Pressure Regulator
- Test Station

Storm Drain

- Storm Pipe
- Catchbasin
- Cleanout
- Lift Station
- Manhole
- Valve

Communication

- Communication
- Pedestal
- Manhole
- Handhole

Power

- Overhead Conductor
- High Voltage
- Low Voltage
- Feeder Manhole
- Feeder Handhole
- Power Pole
- Fuse Cutout
- Pole Transformer
- Street Lights

Crygenic Pipe

- Cryogenic Pipe

Chilled Water

- Chilled water
- Air Vent
- Post Indicator Valve

Low Conductivity Water

- Low Conductivity Water
- Air Vent
- Reducer

Field Tile

- CLAY
- CONCRETE
- POLYETHYLENE
- Investigation Trench
- Data Points
- Line Points
- Riser
- Abandoned
- Outlet
- Plug