



Department of Energy

Fermi Area Office
Post Office Box 2000
Batavia, Illinois 60510

RECEIVED

JAN 25 2002

Environment,
Safety & Health Section

JAN 23 2002

Mr. Gerald Brown, Associate
Director for Operations Support
Fermilab
P.O. Box 500
Batavia, IL 60510

Dear Mr. Brown:

**SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DETERMINATION AT
FERMI NATIONAL ACCELERATOR LABORATORY - "MESON WEST TARGET
PILE REMOVAL" PROJECT**

Reference: Letter, same subject, G. Brown to J. Monhart, dated 01/14/02.

I have reviewed the Fermilab Environmental Evaluation Notification Form (EENF) for the subject proposed project transmitted by your referenced letter. Based on the information provided in the EENF, I have approved the following project as a categorical exclusion (CX):

<u>Project Name</u>	<u>Approved</u>	<u>CX (s)</u>
Meson West Target Pile Removal	01/23/2002	B3.10

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(s) provided in 10 CFR 1021, as amended in 1996.

Sincerely,

Jane L. Monhart
Area Manager

Enclosure:
Signed EENF

- cc: M. Witherell, w/o encl.
- K. Stanfield, w/o encl.
- B. Chrisman, w/o encl.
- C. Trimby, w/o encl.
- T.J. Sarlina, PPD, w/o encl.
- B. Griffing, ESHS, w/encl.
- T. Dykhuis, ESHS, w/o encl.

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Date 9-25-02

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FERMILAB ENVIRONMENTAL EVALUATION NOTIFICATION FORM

Project/Activity Title Meson West Target Pile Removal

ES&H Tracking Number 01016

Funding Source R&R Funds

Fermilab Project Manager T. J. Sarlina

Signature _____

T. J. Sarlina

Date _____

10 Jan 2002

Fermilab NEPA Reviewer Teri Dykhuis

Signature _____

Teri Dykhuis

Date _____

1/14/02

I. Description of the Proposed Action

The goal of this proposed project would be to remove the entire Meson West beam line target pile located in the Meson Detector Building. The open floor area would be used to support High Energy Physics experiments in the Meson Area. Support equipment would consist of standard material handling devices such as forklifts, pallet jacks, flatbed trucks, and a 20-ton overhead crane. The removal would not include any digging, trenching, or excavating of any type.

The existing target pile measures roughly 100 feet long by 20 feet wide by 25 feet high. The pile consists mainly of standard concrete blocks and steel plates. A small amount of lead sheeting and lead wool would potentially be found in the pile due to the fact that this was a common radiation shielding technique at the time that the pile was constructed.

Material removed from the area would be surveyed for radioactivity, radioactive contamination and lead contamination before leaving the building. All materials would be decontaminated and either stored or disposed of in accordance with the applicable rules and regulations. Concrete blocks, not immediately needed, would be stored in either the Robertson Block Building or at the Railhead. Steel pieces would be stored at the Railhead. Activated materials would be incorporated into existing storage locations.

Particle Physics Division (PPD) has need for convenient staging space to support installation and operation of High Energy Physics experiments in the Meson Detector Building. The Meson West area of the building is not being fully or effectively used at this time and would provide some of the needed storage space once it has been cleared out.

Also, many of the concrete blocks and steel pieces used to construct the target pile would be useful in other areas of the Laboratory for radiation shielding purposes.

Description of the Affected Environment

This project would involve the handling and possible disposal of activated materials and therefore potential radioactive exposure to workers or the public will be prevented and/or minimized by following all Fermilab requirements for monitoring and handling of radioactive materials. See additional details in section VI.

III. Potential Environmental Effects (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?

- Excavation
- Noise
- Asbestos
- PCBs
- Chemical storage or use
- Pesticides
- Hazardous, toxic or criteria air emissions
- Liquid effluents
- Underground storage tanks
- Hazardous waste
- Radioactive waste
- Radioactive exposures

C. Other relevant 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. NEPA Recommendation

Fermilab has reviewed this proposed action and conclude that the appropriate level of NEPA determination is a Categorical Exclusion. The conclusion is based on the proposed action meeting the applicable requirements in DOE's NEPA Implementation Procedures, 10 CFR 1021, Subpart D, Appendix B3.10.

V. DOE/CH-FAO NEPA Coordinator Review

Concurrence with the recommendation for determination:

NEPA Coordinator reviewer Jonathan Cooper

Signature Jonathan P. Cooper
Date 01/23/02

Fermi Area Manager Jane L. Monhart

Signature Jane L. Monhart
Date 1/23/02

VI. Comments on checked items in section III.

Radioactive Waste

As described above, the enclosure surrounds a primary beam targeting area from the Meson West beam line so there will be some radioactive material. This will be handled by trained personnel in accordance with standard Fermilab procedures for moving, storing, or disposing of activated materials.

Radioactive Exposures

Radiation exposure to workers will be kept to a minimum by use of Fermilab Radioactive Work Permits (RWP's) filled out by the PPD Radiation Safety Officer. PPD Radiological Control personnel will monitor all work with Class 2 or higher radiation materials.