

JUL 02 2010

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

Dear Dr. Chrisman:

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DETERMINATION AT FERMILAB NATIONAL ACCELERATOR LABORATORY (FERMILAB) FOR THE ILLINOIS ACCELERATOR RESEARCH CENTER (IARC)

Reference: Letter, B. Chrisman to M. Bollinger, dated June 29, 2010, Subject: National Environmental Policy Act (NEPA) Environmental Evaluation Notification Form (EENF) for the Illinois Accelerator Research Center (IARC)

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

<u>Project Name</u>	<u>Approved</u>	<u>CX(s)</u>
Illinois Accelerator Research Center (IARC)	7/1//2010	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,

**Original Signed by**  
Mark E. Bollinger  
Deputy Manager

Mark E. Bollinger, Acting  
Site Manager

Enclosure:  
As Stated

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


bc: R. Hersemann, w/encl.  
J. Scott, w/o encl.  
S. Arnold, w/o encl.  
P. Siebach, CH-STC, w/encl.  
M. McKown, CH-OCC, w/o encl.

# FERMILAB ENVIRONMENTAL EVALUATION NOTIFICATION FORM

**Project/Activity Title:** Illinois Accelerator Research Center  
**ES&H Tracking Number:** 01086  
**Funding Source:** State Grant + Supplemental DOE Funds  
**Fermilab Environmental Officer (submitted PIF):** Rod Walton (X2565)  
**Fermilab Project Engineer:** Rhonda Merchut (X4599)  
**Fermilab Project Lead:** Robert Kephart (X3135)

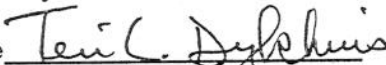
I hereby certify via my signature that every effort would be made throughout this project to comply with the commitments made in this document and to pursue cost-effective pollution prevention opportunities. Pollution prevention (source reduction and other practices that eliminate or reduce the creation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

**Fermilab Project Lead:** Robert Kephart

Signature 

Date June 29, 2010

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

Signature 

Date 6/29/2010

## I. Description of the Proposed Action and Need

### Purpose and Need:

The purpose of the Illinois Accelerator Research Center (IARC) at Fermi National Accelerator Laboratory is to provide a center of excellence for accelerator research and development. IARC would provide a focal point for accelerator research, education, and industrialization and initiate/promote/support related industry in Illinois. IARC would bring together scientists and engineers from Fermilab, Argonne National Lab, Illinois universities, and industry partners with the goal of encouraging development of accelerator based industry and accelerator projects in Illinois. IARC would help to increase the probability that new accelerator projects like Project X are sited at Fermilab and the work at IARC would serve to promote Fermilab as the leading accelerator laboratory acting as a steward of 'accelerator development' within the Office of Science in the Department of Energy. In partnership with industry and local university accelerator programs, IARC would make critical contributions to the technological and economic health of Illinois and provide unique educational opportunities for a new generation of Illinois engineers and scientists. In order to fulfill this purpose a new building is proposed for construction to serve as a physical focal point for these engineers and scientists.

### Proposed Action:

The project would utilize conventional construction methods to erect a building adjacent to and extending north and west of the existing Fermilab Collider Detector Facility Building and associated parking would be constructed adjacent to this new building. The approximately 40,000 square foot IARC building would provide a mixture of office, specialized technical, and educational (OTE) space for use by Fermilab, Argonne and other national lab scientists and engineers; university researchers;

educators; and collaborating industry partners. The space would be used for the study, research, development, and application of cutting edge accelerator technologies.

Several alternative Fermilab locations and building configuration were studied; however, all had similar potential impacts. Therefore, the preferred alternative site was chosen based on other factors. The 'no action' alternative would not achieve the stated purpose.

## II. Description of the Affected Environment

The gross area of the proposed building would be approximately 40,000 square feet and the building footprint would be roughly 14,000 square feet; in addition, the adjacent parking would take up approximately 35,000 square feet. The building would be connected to existing utilities in the area.

## III. Potential Environmental Effects (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

- 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 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 applicable requirements 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); fire protection; and similar support purposes, but excluding facilities for waste storage activities; except as provided in other parts of this appendix."

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

Concurrence with the recommendation for determination:

NEPA Coordinator Reviewer, U.S. DOE FSO: Rick Hersemann

Signature *Rick Hersemann*  
Date 6/30/10

Acting Fermi Site Office Manager: Mark Bollinger

Signature *M Bollinger*  
Date 7/2/2010

## VI. Comments on checked items in section III

### Clearing or Excavation

The footprint of the building would be approximately 14,000 square feet. Poor soils in the area would necessitate the excavation of approximately 60,000 cubic feet of soil for the footings and foundation and an additional 35,000 square feet would be excavated for parking and driveways. All of this area is previously disturbed. Suitable excess soil would be stockpiled on the site for reuse in re-grading the parking lot; unsuitable excess soil (approximately 2300 cubic yards) would be removed from the site for proper disposal. Silt fencing would be installed around the limits of construction to control erosion.

### Liquid Effluents

The total area of excavation would be approximately 2 acres and therefore a Notice of Intent would be completed and filed with the Illinois Environmental Protection Agency for coverage under the National Pollutant Discharge Elimination System General Permit for Construction Activities. As a condition of this permit, a Storm Water Pollution Prevention Plan would be prepared and maintained for the project. Bullrush Pond, to the west of "C" Road, would continue to receive surface water run-off.

