

Environmental Review Form for Argonne National Laboratory

Click on the blue question marks (?) for instructions, contacts, and additional information on specific line items.

(?)**Project/Activity Title:** Removal of the Building 370 Felix Magnet

(?)**ASO NEPA Tracking No.** ASO-CX-272

(?)**Type of Funding:** MR


B&R Code _____

(?)**Identifying number:** EFR-1058 WFO proposal # _____ CRADA proposal # _____

Work Project # 15509-FM-155 ANL accounting # (item 3a in Field Work Proposal) _____

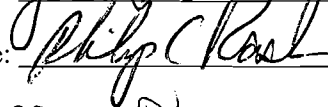
Other (explain) ESQ Log # _____

(?)**Project Manager:** Jesse Adams

Signature: 

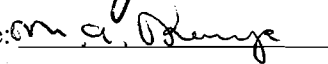
Date: 8-25-10

(?)**NEPA Owner:** Phil Rash

Signature: 

Date: 8/23/10

ANL NEPA Reviewer: M. A. Kamiya

Signature: 

Date: 8/25/2010

I. (?)**Description of Proposed Action:**

This action will demolish an existing magnet that was relocated from inside of Building 370 and placed in the 376 parking lot adjacent to Building 370. This action will demolish in place the FELIX magnet and associated equipment. The work includes the dismantlement and recycling or disposal of the components.

The existing Felix Magnet is constructed of a series of copper and synthetic laminated rings bound together by large diameters bolts. ^{See attached photo of the magnet. Attachment #5} Primary activities will include un-bolting the existing brackets and dismantling the rings. The material will be loaded and transported off-site. No grinding, cutting or torching of the equipment is anticipated.

II. (?)**Description of Affected Environment:**

The work will take place in a previously disturbed area: the 376 parking lot adjacent to Building 370. All material will be removed and recycled or disposed of.

(?)**Potential Environmental Effects:** (Attach explanation for each "yes" response. See **Instructions for Completing Environmental Review Form**)

A. Complete Section A for all projects.

1. (?)Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable Yes X No _____
2. (?)Air Pollutant Emissions: Yes _____ No X
3. (?)Noise: Yes X No _____
Minor noise associated with power tools.
4. (?)Chemical Storage/Use Yes X No _____

Standard construction oils and lubricated will be and stored during the demolition activities.

5. (?) Pesticide Use Yes ___ No X
6. (?) Polychlorinated Biphenyls (PCBs) Yes ___ No X
7. (?) Biohazards Yes ___ No X
8. (?) Liquid Effluent (wastewater) Yes ___ No X
9. (?) Waste Management
- a) Construction or Demolition Waste Yes X No ___
All material will either be scrapped or disposed by the contractor
- b) Hazardous Waste Yes ___ No X
- c) Radioactive Mixed Waste Yes ___ No X
- d) Radioactive Waste Yes ___ No X
- e) PCB or Asbestos Waste Yes ___ No X
- f) Biological Waste Yes ___ No X
- g) No Path to Disposal Waste Yes ___ No X
- h) Nano-material Waste Yes ___ No X
10. (?) Radiation Yes ___ No X
11. (?) Threatened Violation of ES&H Regulations or Permit Requirements Yes ___ No X
12. (?) New or Modified Federal or State Permits Yes ___ No X
13. (?) Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste Yes ___ No X
14. (?) Public Controversy Yes ___ No X
15. (?) Historic Structures and Objects Yes ___ No X

An internal review of the historic contributions of the FELIX magnet was conducted by the ESQ division. It was determined that the magnet does not meet the criteria identifying the equipment as an historic artifact. SHPO has ^{approved the project and permit} been sent a copy of the report and a ^{mitigation (Approval letter attached Attachment #2)} confirmation is expected. Upon receipt, a copy of the report will be attached to this ERF and consequently sent to DOE for approval.

16. (?) Disturbance of Pre-existing Contamination Yes ___ No X
17. (?) Energy Efficiency, Resource Conserving, and Sustainable Design Features Yes ___ No X

B. For projects that will occur outdoors, complete Section B as well as Section A.

18. (?) Threatened or Endangered Species, Critical Habitats, and/or other Protected Species Yes ___ No X

- 19. (?)Wetlands Yes ___ No X
- 20. (?)Floodplain Yes ___ No X
- 21. (?)Landscaping Yes ___ No X
- 22. (?)Navigable Air Space Yes ___ No X
- 23. (?)Clearing or Excavation Yes ___ No X
- 24. (?)Archaeological Resources Yes ___ No X
- 25. (?)Underground Injection Yes ___ No X
- 26. (?)Underground Storage Tanks Yes ___ No X
- 27. (?)Public Utilities or Services Yes ___ No X
- 28. (?)Depletion of a Non-Renewable Resource Yes ___ No X

C. For projects occurring outside of ANL complete Section C as well as Sections A and B. N/A

- 29. (?)Prime, Unique, or Locally Important Farmland Yes ___ No ___
- 30. (?)Special Sources of Groundwater (such as sole source aquifer) Yes ___ No ___
- 31. (?)Coastal Zones Yes ___ No ___
- 32. (?)Areas with Special National Designations (such as National Forests, Parks, or Trails) Yes ___ No ___
- 33. (?)Action of a State Agency in a State with NEPA-type Law Yes ___ No ___
- 34. (?)Class I Air Quality Control Region Yes ___ No ___

III. (?)Subpart D Determination: (to be completed by DOE/ASO)

Are there any extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal? Yes ___ No X

Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts? Yes ___ No X

If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211? Yes ___ No ___

Can the project or activity be categorically excluded from preparation of an Environment Assessment or Environmental Impact Statement under Subpart D of the DOE NEPA Regulations? Yes X No ___

If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded. B3.6. Decommissioning of facilities for small-scale R & D research.

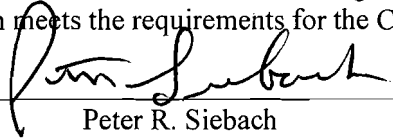
If no, indicate the NEPA recommendation and class(es) of action from Appendix C or D to Subpart D to Part 1021 of 10 CFR.

ASO NEPA Coordinator Review: Ken Chiu

Signature:  Date: 9/11/2010

ASO NCO Approval of CX Determination:

The preceding pages are a record of documentation that an action may be categorically excluded from further NEPA review under DOE NEPA Regulation 10 CFR Part 1021.400. I have determined that the proposed action meets the requirements for the Categorical Exclusion identified above.

Signature:  Date: 9/2/2010
Peter R. Siebach
Acting Argonne Site Office NCO

ASO NCO EA or EIS Recommendation: N/A

Class of Action: _____

Signature: _____ Date: _____
Peter R. Siebach
Acting Argonne Site Office NCO

Concurrence with EA or EIS Recommendation:

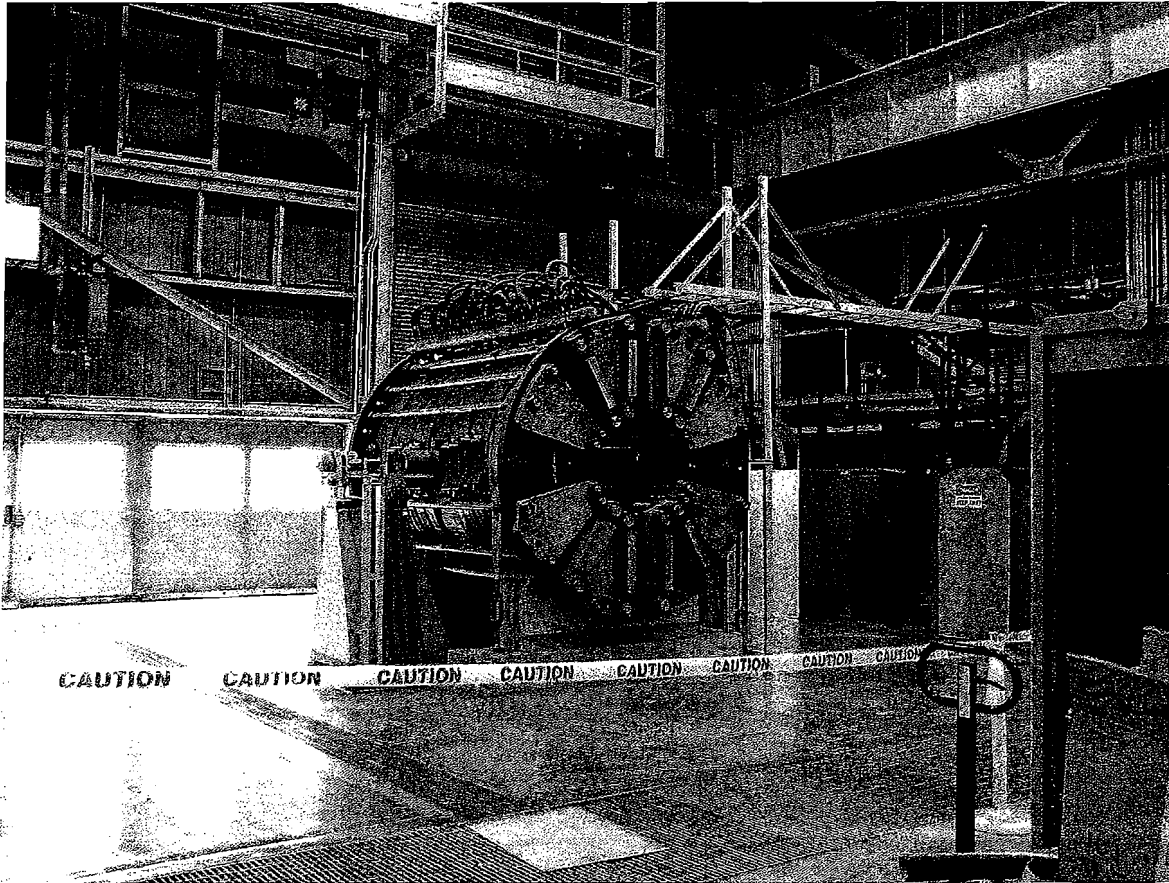
CH GLD: _____

Signature: _____ Date: _____

ASO Manager Approval of EA or EIS Recommendation:

An ___ EA ___ EIS shall be prepared for the proposed _____ and
_____ shall serve as the document manager.

Signature: _____ Date: _____
Dr. Joanna M. Livengood, Manager

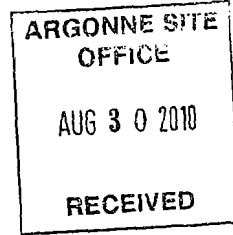


Enclosure 2. Photo of FELIX magnet.



**Illinois Historic
Preservation Agency**

1 Old State Capitol Plaza • Springfield, Illinois 62701-1512 • www.illinois-history.gov



ASO-CX-272
Attachment #2

FAX (217) 782-8161

DuPage County
Argonne

Dismantling of Large Magnet for the Fusion Electromagnetic Induction Experiment
Building 370, North of Bluff Road
IHPA Log #008081110

August 24, 2010

Dr. Joanna M. Livengood
Department of Energy
Argonne Site Office
9800 S. Cass Ave.
Argonne, IL 60439

Dear Dr. Livengood:

We have reviewed the documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you have any further questions, please contact me at 217/785-5027.

Sincerely,

Anne E. Haaker
Anne E. Haaker
Deputy State Historic
Preservation Officer