

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: Building 212 Electron Microscopy Improvements.

(?)ASO NEPA Tracking No. ASO - CX - 266

(?)Type of Funding: GPP

B&R Code _____

(?)Identifying number: FER 0926 R1

WFO proposal # _____

CRADA proposal # _____

Work Project # 01244

ANL accounting # (item 3a in Field Work Proposal) _____

Other (explain) _____

(?)Project Manager: J. Frego

Signature: [Signature]

Date: 11/16/09

(?)NEPA Owner: Philip C. Rash

Signature: [Signature]

Date: 11/16/09

ANL-E NEPA Reviewer: M. A. Kamiya

Signature: [Signature]

Date: 11/17/2009

(?)Description of Proposed Action:

This project will demolish the existing HVAC systems within the D Wing of Building 212 (Electron Microscopy Area). Included in this demolition are 5-fancoil units and associated duct work, and ductwork missing boxes. ^{see attached drawing for Attachment # 2} These items would be replaced by a new low-sound and specifically designed and built 30-ton air handling unit, insulated sound suppressing supply and return ductwork, and all necessary piping, valves, and sound reducing insulation. Silencers and laminar flow registers, controls, air balancing and commissioning are also included in this work.

(?)Description of Affected Environment:

This work will occur both inside and outside of the Building 212 D Wing. External duct work is planned to be placed on the east exterior wall of the wing, and run approximately the north/south exterior length of the wing. The outside work will occur in previously disturbed areas. See attached for the proposed locations of the supply and return air ducts.

I. (?)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 _____

There will be minor construction noise primarily resulting from demolition actions.

4. **(?)Chemical Storage/Use** Yes X No _____

Standard construction chemicals associated with HVAC equipment Demolition and installation. MSDS sheets will be available at the work site. They will be stored and used in accordance with ANL requirements.

5. (?) Pesticide Use Yes ☐ No ☒
6. (?) Polychlorinated Biphenyls (PCBs) Yes ☐ No ☒
7. (?) Biohazards Yes ☐ No ☒
8. (?) Liquid Effluent (wastewater) Yes ☒ No ☐

Potential exists for pressure testing of new HVAC piping with water. Discharge will be sent to the laboratory sewer facilities.

9. (?) Waste Management

- a) Construction or Demolition Waste Yes ☒ No ☐

Construction debris will be disposed of per existing regulations. No contamination is assumed in existing piping.

- b) Hazardous Waste Yes ☐ No ☒

- c) Radioactive Mixed Waste Yes ☐ No ☒
Not expected. See 9a above.

- d) Radioactive Waste Yes ☐ No ☒
Not expected. See 9a above.

- e) PCB or Asbestos Waste Yes ☐ No ☒
These are not expected to be encountered, but if so, the materials will be removed per ANL procedures.

- f) Biological Waste Yes ☐ No ☒

- g) No Path to Disposal Waste Yes ☐ No ☒

- h) Nano-material waste Yes ☐ No ☒

10. (?) Radiation Yes ☐ No ☒

11. (?) Threatened Violation of ES&H Regulations or Permit Requirements Yes ☐ No ☒

12. (?) New or Modified Federal or State Permits Yes ☐ No ☒

13. (?) Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste Yes ☐ No ☒

14. (?) Public Controversy Yes ☐ No ☒

15. (?) Historic Structures and Objects Yes ☒ No ☒

Building 212 is eligible for listing on the National Registry of Historic Places.

This proposed action ^{may} will impact the exterior façade of Building 212 on the east side of the

D Wing. ANL is ~~assessing the site for applicability~~. The attached letter from IHPA determined that no historic properties would be affected. (Attachment #1)

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 X No ____

The work involving duct installation will require the placement of vertical supports in the soil immediately adjacent to the east facade of the D Wing. Existing grading will be maintained.

22. (?) Navigable Air Space Yes ____ No X

23. (?) Clearing or Excavation Yes X No ____

Excavation for a pad for the AHU and Plenum, plus the vertical supports for the ducts. All excavated soil will be distributed throughout the area, and the area will be brought to grade.

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-E or ANL-W, 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 _____

II. **(?) 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. B.2.1 Modification of an existing structure to enhance work place ^{habitability} i.e. improvements to HVAC system

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.

DOE-ASO NEPA Coordinator Review: Ken ChiuSignature: Ken ChiuDate: 3/31/10**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: Peter R. SiebachDate: 4/5/10

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: _____

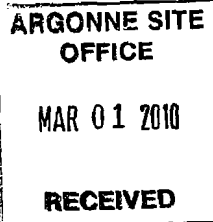
Ron Lutha

Argonne Site Manager

ASO-CX-266
Attachment #1



**Illinois Historic
Preservation Agency**



FAX (217) 782-8161

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

DuPage County

Argonne

Ventilation System Upgrade, The Microscopy Laboratories

Building 212

IHPA Log #016122109

February 22, 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 additional 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

ASO-CX-206

Attachment #2

ERF 0926 RL

4/16/09

201

213

233

216

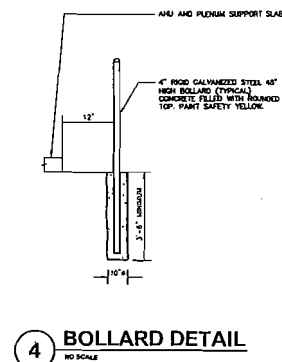
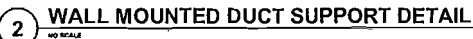
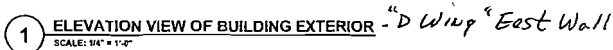
212

"D" wing/East Side

214

OUTER CIRCLE ROAD





FOR REVIEW ONLY NOT FOR CONSTRUCTION THE HANSHULL COAL, LUMP SIZE HANSHULL, W. VIRGINIA 10/17/2020 FOR 4/28/2021 10/20/2020 FOR 4/28/2021						
K J W W ENGINEERING CONSULTANTS INCORPORATED INCORPORATED		NAME: JOHN HANSHULL ADDRESS: 1000 W. 10TH ST. CITY: CHANDLER, ARIZONA 85224 PHONE: (602) 998-1111 FAX: (602) 998-1111 E-MAIL: JOHN@HANSHULL.COM THIS DOCUMENT IS THE PROPERTY OF HANSHULL CONSULTANTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF HANSHULL CONSULTANTS, INC.				
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REV. NO.	1. REV. SUBMITTAL 2. REV. SUBMITTAL BY: AM/ DATE: 10/20/2020	BY	DATE			
Argonne NATIONAL LABORATORY						
FMS Facilities Management & Services						
PROJECT TITLE: ELECTRON MICROSCOPE IMPROVEMENT PROJECT PROJECT NO.: J-1776-P-00195-00 DOCUMENT TITLE: MECHANICAL DETAILS						
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