



Department of Energy

Argonne Site Office
9800 South Cass Avenue
Argonne, Illinois 60439

MAY 19 2011

Dr. Eric Isaacs
Director, Argonne National Laboratory
President, UChicago Argonne, LLC
9700 South Cass Avenue
Argonne, IL 60439

Dear Dr. Isaacs:

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) DETERMINATION FOR ARGONNE NATIONAL LABORATORY (ANL)

Argonne Site Office (ASO) has approved the following as a categorical exclusion (CX) under the category of "B 3.6 Siting/construction/operation/decommissioning of facilities for bench-scale research, conventional laboratory operations, small-scale research and development and pilot projects".

- Building 203 Upgrade and Operation of the Detector Laboratory (ASO-CX-288)

Therefore, no further NEPA review is required. However, if any modification or an expansion of the scope is made to the above project, additional NEPA review will be necessary.

Enclosed please find a copy of the approved Environmental Review Form (ERF) for the project. If you have any questions please contact Kaushik Joshi of my staff at (630) 252-4226.

Sincerely,

A handwritten signature in black ink that reads "Joanna M. Livengood".

Dr. Joanna M. Livengood
Manager

Enclosure:
As Stated

cc: M. Kamiya, ANL/ESQ, 201, w/encl.
B. DiGiovine, ANL/PHY, 203, w/encl.
N. Van Wermeskerken, ANL/PSE, 208, w/encl.

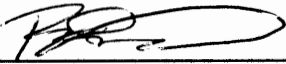
Environmental Review Form for Argonne National Laboratory

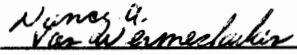
Click on the blue question marks (?) for instructions, contacts, and additional information on specific line items.

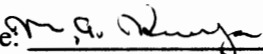
(?)Project/Activity Title: Upgrade and Operation of the Detector Lab

(?)ASO NEPA Tracking No. _____ **(?)Type of Funding:** _____
B&R Code KB04

(?)Identifying number: _____ WFO proposal # _____ CRADA proposal # _____
Work Project # _____ ANL accounting # (item 3a in Field Work Proposal) _____
Other (explain) _____

(?)Project Manager: B. DiGiovine Signature:  Date: 5-10-11

(?)NEPA Owner: N. A. Van Wermeskerken Signature:  Date: 5-10-11

ANL NEPA Reviewer: M. A. Kamiya Signature:  Date: 5/11/2011

I. (?)Description of Proposed Action: The proposed work project for the upgrade of the present detector lab will expand the capabilities and quality of work performed in order to better serve the Physics Division's experimental program. A clean room will be constructed to allow clean assembly, repair, and storage of the present stock of gaseous detectors, superheated liquid detectors, and Si and Diamond detectors. A wire bonding machine will also complement our upgrade to give in house capability of repairing and installing wire bonds on Si detectors for the upgrade of HELIOS as well as the repair of the present stock of Si detectors. Electronics and data acquisition systems will be implemented to allow for mobile testing of the detectors in the detectors lab as well as in place in the experimental areas. Gas handling systems, pumping stations and associated systems will be installed in the detector lab to allow for much more efficient testing of detector systems well ahead of installation in the actual experimental areas.

The new enclosure will be 12'x16'. It is listed as a Class 1000 ante room with a Class 100 clean room. The sides will be flexible plastic. The oscilloscope will be a table top scope, placed on a wheeled cart. The data acquisition system will be standard desk top computers.

II. (?)Description of Affected Environment: Building 203, room G018 is a basement lab near the ATLAS facility. It is primarily an electronics lab. The tile in part of the room is the old red asbestos tile. The plumbing has asbestos at the transitions, not on the straight runs. The pipes were tested for asbestos and the transitions have asbestos and the straight runs do not. There is a small amount of old, unused equipment that will be removed and excessed, recycled or disposed.

III. (?)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 _____

The components of the clean room will be premeasured and precut prior to being brought on site. The whole system is modular to allow ease of construction.

2. (?)Air Pollutant Emissions Yes ___ No X
3. (?)Noise Yes ___ No X
4. (?)Chemical/Oil Storage/Use Yes X No ___

Alcohol will be used to clean the electronic parts.

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 ___

The only anticipated waste will be of old equipment currently in the lab. The clean room will be precut prior to its arrival on site.

- b) Hazardous Waste Yes X No ___

Chemicals, such as alcohol, will be used to clean and dry the electronic parts. The waste will be handled in accordance with the LMS Waste Management Procedures.

- c) Radioactive Mixed Waste Yes ___ No X

- d) Radioactive Waste Yes ___ No X

- e) PCB or Asbestos Waste Yes ___ No X

The plumbing has asbestos at the transitions but not on the straight runs. It is not expected at this time that the pipes would need to be cut or removed. The contractors will be required to have asbestos awareness training before they can work in the area. The floor tiles were confirmed to have asbestos. If the tiles are to be removed, they will be removed by trained certified workers and disposed of according to the LMS Waste Management Procedures.

- 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

16. (?)Disturbance of Pre-existing Contamination Yes X No ___

There is some legacy Radium contamination from a previous incident the occurred in the 1950's. Horizontal surface areas that are not usually disturbed, but maybe with construction, were surveyed. Small amounts of radioactivity were found on normally undisturbed surfaces. The readings were less than 100 dpm/cm². WMO will be requested to remove any material if the surveyed areas are to be disturbed during construction along with coverage by Health Physics. It will also be required that WMO use portable HEPA filtered systems during cleanup.

17. (?)Energy Efficiency, Resource Conserving, and Sustainable Design Features Yes No

The project manager will research this subject when acquiring quotes and will balance with the cost, and needs of the project.

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

18. (?)Threatened or Endangered Species, Critical Habitats, and/or other Protected Species Yes No
19. (?)Wetlands Yes No
20. (?)Floodplain Yes No
21. (?)Landscaping Yes No
22. (?)Navigable Air Space Yes No
23. (?)Clearing or Excavation Yes No
24. (?)Archaeological Resources Yes No
25. (?)Underground Injection Yes No
26. (?)Underground Storage Tanks Yes No
27. (?)Public Utilities or Services Yes No
28. (?)Depletion of a Non-Renewable Resource Yes No

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

IV. 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

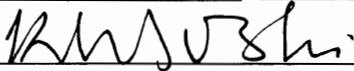
If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211? Yes ___ No ___

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. 6 "Siting/construction/operation/decommissioning of facilities for bench-scale research, conventional laboratory operations, small-scale research and development and pilot projects."

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.

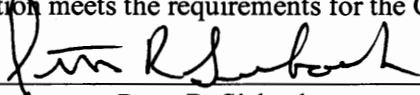
ASO NEPA Coordinator Review: Kaushik N. Joshi

Signature: 

Date: 5-18-2011

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. Siebach
Acting Argonne Site Office NCO

Date: 5/18/2011

ASO NCO EA or EIS Recommendation:

Class of Action: _____

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

Date: _____

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: _____
Dr. Joanna M .Livengood
Manager

Date: _____