

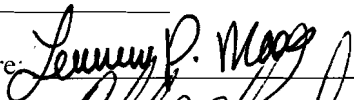
Environmental Review Form for Argonne National Laboratory

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

(?)**Project/Activity Title:** Generic Categorical Exclusion: Environmental Characterization and Monitoring

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

(?)**Identifying number:** OPS-01090 WFO proposal # _____ CRADA proposal # _____
Work Project # _____ ANL accounting # (item 3a in Field Work Proposal) _____
Other (explain) _____

(?)**Project Manager:** Larry Moos Signature:  Date: 1/28/11

(?)**NEPA Owner:** Phil Rash Signature:  Date: 1/28/11

ANL NEPA Reviewer: M. A. Kamiya Signature:  Date: 1/28/2011

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

GENERAL: This generic categorical exclusion covers: the characterization of sites including those with suspected or known contamination; the environmental monitoring of sites of suspected or known contamination; environmental monitoring in response to permit requirements or to prepare permit applications; environmental monitoring conducted in support of Argonne's environmental protection program; and site characterization and monitoring to ascertain Argonne's geologic, technical, and hydrogeological conditions.

The activities in the ERF use similar techniques for environmental sampling and measurements. Typical techniques include: manual sample collection; drilling and down hole surveys; the construction, maintenance, and closure of monitoring wells; the installation and maintenance of sample collection devices in effluent air and water streams (at outfalls and in receiving waters that do not require permits); the deployment and collection of radiation dosimeters; the use of various sampling techniques for soil, water, sediment, landfill gas, or air; digging of shallow test pits; waste sampling; and the use of non-intrusive techniques such as geophysical surveys and plant and animal sampling, etc.

CHARACTERIZATION: Characterization will be typically conducted at sites of known or suspected contamination or to provide support information for such sites (such as background soil and groundwater sampling and groundwater migration studies). Sampling may also be needed in uncontaminated areas to verify the absence of contamination. This ERF is also intended to cover the characterization phase of newly discovered contaminated sites or sites that may emerge as having a greater significance than in the past and require further characterization. The remediation phase of newly discovered sites may require the modification of the existing remediation Environmental Assessment (DOE-EA-1165). Under some circumstances the remediation program may be required to sample the habitats of threatened or endangered species or to characterize other sensitive environments. However, threatened/endangered species or sensitive habitats will not be affected by the proposed actions.

MONITORING: Monitoring will be conducted at sites of or in the vicinity of known or suspected contamination, for the purpose of tracking the condition of the environment following the completion of a remedial action, in the fulfillment of permit requirements, to allow the quantification of effluent releases from Argonne or for the purposes of establishing existing environmental conditions.

RESTRICTIONS: All activities will follow the conditions in 10 CFR 1021, Subpart D, Appendix B “Conditions that Are Integral Elements of the Classes of Actions in Appendix B.” In summary, the activities described in the Generic Categorical Exclusion shall not take place in wetlands, floodplains, streams, impact archaeology sites, historic structures, or parts thereof or adversely affect any of the above including Argonne’s landscapes or remove live trees larger than 6 inches in diameter.

All intrusive sampling work (work that disturbs the surface of the ground) taken place under this Generic Categorical Exclusion will take place in previously disturbed sites within the boundaries of Argonne National Laboratory or in off-site areas with approval of the land owner (e.g., Waterfall Glenn Forest Preserve and Palos Park Forest Preserve). The intrusive work will occur only in previously disturbed or State approved (SHPO) areas concerning archaeological or historic resources. Non-intrusive sampling such as hand collection of water samples from a pond would be allowed.

No actions taken place under this Generic Categorical Exclusion shall modify or require special or specific Federal or State permits such as IEPA construction permits, US Army Corps of Engineers dredge and fill or wetland permit or air permits etc.

No actions under this Generic Categorical Exclusion shall install new ventilation for radiological use.

No actions under this Generic Categorical Exclusion shall discharge process water or wastewater to any storm sewer system. No exterior actions taken under this Generic Categorical Exclusion that disturb the earth or otherwise create the potential for uncontrolled soil erosion shall be conducted without an approved Erosion Control Plan.

For activities involving both facility operations and research activities, verify that all activities planned for the project fall within the assigned Generic Categorical Exclusion or some other environmental evaluation documentation.

Any actions planned that do not meet these restrictions or fall within the scope described, shall require an independent NEPA review.

II. (?)Description of Affected Environment:

Sampling for environmental monitoring may be carried out at virtually any outdoor disturbed Argonne location (including under and around buildings/structures) on-site and at adjacent off-site locations such as Waterfall Glen Forest Preserve or Palos Park. Off-site sampling may be performed to establish background or baseline values including more distant outdoor locations in the Chicago land area.

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
2. (?)Air Pollutant Emissions Yes X No
Minor emissions from cars, light duty vehicles, gas powered pumps and generators will occur.

3. (?)Noise Yes X No ____
 Minor noise from construction and operational/maintenance of equipment will occur. All appropriate standards will be followed and personal protective equipment used as required.
4. (?)Chemical/Oil Storage/Use Yes X No ____
 Standard construction, maintenance and operational chemicals will be used such as oil, cleaning products, sample preparation preservatives, drilling fluids, and cement. Oil will be managed according to the appropriate LMS procedures including the proper management of oil including spill control kits. For quantities equal to or greater than 55 gallons the containers will be have secondary containment and permanent storage areas would be added to the Spill Prevention, Control and Countermeasures Plan.
5. (?)Pesticide Use Yes X No ____
 Pesticides and herbicides may be used as necessary to control pests such as wasps and hornets, mosquitoes, and invasive plants. Areas around sampling locations may be herbicided to allow access. Any restricted pesticides will be applied by licensed applicators and MSDS will be stored in an accessible location near the work areas.
6. (?) Polychlorinated Biphenyls (PCBs) Yes X No ____
 There is a possibility to find PCB material in samples and drilling operations. This material will be appropriately characterized to identify PCBs, if applicable to ensure proper management and disposal .
7. (?) Biohazards Yes ____ No X
8. (?)Liquid Effluent (wastewater) Yes X No ____
 These activities may generate small amounts of wastewater that are not expected to require sewer disposal. Effluent from drilling, well development and sampling will be containerized if the effluent is not characterized and then disposed of appropriately. Specifically in the 800 Area and the ENE landfill the purge water is collected and disposed in the Laboratory sewer as required by our RCRA Part B permit.
9. (?)Waste Management
- a) Construction or Demolition Waste Yes X No ____
 Construction debris may be generated from these actions. All debris shall be collected and placed in appropriate collection systems for recycling where appropriate. Clean excess soil or gravel may be moved to the Argonne storage area for reuse.
 - b) Hazardous Waste Yes X No ____
 Hazardous waste may be generated from these actions. The waste will be characterized, stored, treated and disposed according to the Argonne Waste Management procedures.
 - c) Radioactive Mixed Waste Yes X No ____
 Radioactive Mixed waste may be generated from these actions. The waste will be characterized, stored, treated and disposed according to the Argonne Waste Management procedures and also coordinated with Health Physics.
 - d) Radioactive Waste Yes X No ____

Radioactive waste may be generated from these actions. The waste will be characterized, stored, treated and disposed according to the Argonne Waste Management procedures and also coordinated with Health Physics.

- e) PCB or Asbestos Waste Yes X No
PCB and/or asbestos waste may be generated from these actions. The waste will be characterized, stored, treated and disposed according to the Argonne Waste Management procedures and also coordinated with Health Physics.
- f) Biological Waste Yes No X
Biological waste is not expected from these actions but if found shall be coordinated with Waste Management to ensure proper management and disposal.
- g) No Path to Disposal Waste Yes No X
- h) Nano-material Waste Yes No X
Nano-material waste is not expected from these actions but if found shall be coordinated with Waste Management to ensure proper management and disposal.

10. (?) Radiation Yes X No
Monitoring equipment may contain radioactive material and will be used according to the manufactures instructions. Radiation may be encountered during these activities. The requirements in the applicable Argonne LMS procedures and the applicable requirements in the ESH manual, Ionizing Radiation Protection will be followed.

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

12. (?) New or Modified Federal or State Permits Yes No X
The characterization or monitoring activities may be carried out in preparation for the submission of a permit application, in order to meet the requirements of a permit that has been issued, or to determine whether a new or modified permit is needed.

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
Activities undertaken under this Generic Categorical Exclusion will not involve modifications to historic structures or objects that have not been previously approved by the SHPO.

16. (?) Disturbance of Pre-existing Contamination Yes X No
Activities may disturb contaminated or potentially contaminated areas to monitor and characterize them. These activities will follow the applicable safety and health plans to prevent personnel contamination. The actions would not cause uncontrolled release of contaminants to the environment.

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 ____
Areas may be cleared to perform the proposed activities. The disturbed areas will be restored to their original condition and when possible native vegetation will be used.
22. (?)Navigable Air Space Yes ____ No X
23. (?)Clearing or Excavation Yes X No ____
Areas may be cleared to perform the proposed activities. Erosion control measures will be utilized to prevent soil erosion. The disturbed areas will be restored to their original condition and when possible native vegetation will be used.
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.

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

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 _____

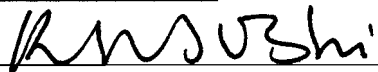
Can the project or activity be categorically excluded from preparation of an Environment Assessment or Environmental Impact Statement under Subpart D of the DOE NEPA Regulations?

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 3.1 Site characterization/environmental monitoring**

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.

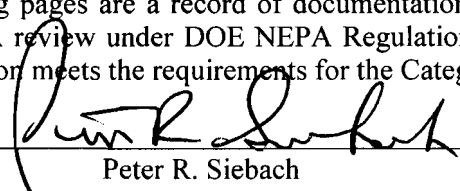
ASO NEPA Coordinator Review: Kaushik N. Joshi

Signature: 

Date: 02-3-2011

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: 2/15/2011

ASO NCO EA or EIS Recommendation: **NA**

Class of Action: _____

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

Date: _____

Concurrence with EA or EIS Recommendation: **NA**

CH GLD: _____

Signature: _____

Date: _____

ASO Manager Approval of EA or EIS Recommendation:

NA

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

Signature: _____
Dr. Joanna M .Livengood
Manager

Date: _____