

U. S. DEPARTMENT OF ENERGY
OFFICE OF SCIENCE -- CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)
ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "financial assistance award" organization receiving Federal funding. For assistance (including a point of contact), see "Instructions for Preparing SC-CH F-560, Environmental Evaluation Notification Form".

Solicitation/Award No. (if applicable): N/A

Organization Name: New Brunswick Laboratory (NBL)

Title of Proposed Project/Research: GENERIC CATEGORICAL EXCLUSION (CX) FOR THE NBL: Renovations and maintenance activities for buildings, structures, infrastructures and equipment

Total DOE Funding/Total Project Funding: N/A

I. Project Description (use additional pages as necessary):

A. Proposed Project/Action (delineate Federally funded/Non-Federally funded portions)

This evaluation covers general renovation and maintenance activities at the New Brunswick Laboratory (NBL) which include: installation, modification, removal, replacement and preparation, for a wide variety of activities that occur for the existing NBL building and structures. This evaluation also covers small support structures such as sheds, enclosures, docks, room additions and trailers. These support structures are not for new major programmatic actions but for miscellaneous activities to support new projects or existing programs and facilities that require additional or modified space.

Activities include:~

- 1) Mechanical installation/maintenance/removal of piping systems such as air, water, steam, natural gas, and sanitary; hydraulic systems; special scientific support systems; fire protection devices; ductwork system for HVAC and building systems including glove boxes, fume hoods, fans and cooling coils, and ancillary parts such as fixtures, insulation, valves, gauges, fans and pumps.
- 2) Electrical installation/maintenance/removal of conduit and wire systems; standard and emergency lighting systems; public address system; fire alarm and smoke detection systems; computer systems, and ancillary components such as light fixtures, speakers, computers, outlets, disconnects, transformers, motors, switchgear, panels, motor control centers, circuit breakers and meters.
- 3) Civil/structural installation/maintenance/removal of partitions, blocks or sheetrock walls and ancillary attributes such as painting and trim work; access docks, concrete/housekeeping pads, stairs, walkways and guardrails; tile or carpeting of floors; ceiling replacement or installations; door installation and finishing; roof repairs, upgrades and replacement; exterior building maintenance and upgrades such as window and/or frame installations; wall maintenance and installations including brick tuck pointing, sealing, wood and plastic panel replacements; window repair and replacement; tower and intake louvers. In addition, small support structures which may include concrete foundations, pads, above and below grade utilities contiguous to the building are included.

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."

This categorical exclusion determination does not apply to the following activities: Activities that impact historic structures or objects; Activities that impact wetland or flood plains; Activities which require modifications to Federal or State permits; Support structure installation activities exclusively for a major programmatic installation that will modify/affect existing EPA permits; and Installation of new buildings.

B. Would the project proceed without Federal funding?

If "yes", describe the impact to the scope:

II. Description of Affected Environment:

These activities are scoped to have minimal affect on the environment as the majority of work will be conducted inside buildings. NBL has an Environmental Management System (EMS) which serves to minimize the impact to the environment from NBL operations and to continually improve environmental stewardship. Where practical, appropriate construction debris will be recycled. Hazardous, asbestos, radioactive and mixed wastes will be disposed of per Federal/State regulations and in accordance with the Argonne National Laboratory (ANL) Waste Handling Procedures Manual, ANL procedures, the NBL Environment, Safety and Health (ESH) Manual, and NBL procedures.

III. Preliminary Questions:

- | | | |
|---|--------------------------|-------------------------------------|
| | Yes | No |
| A. <u>Is the DOE-funded work <i>entirely</i> a "paper study"?</u> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If "Yes", ensure that the description in Section I reflects this and go directly to Section V.

- | | | |
|---|-------------------------------------|--------------------------|
| B. <u>Will the work to be performed take place <i>entirely</i> in existing buildings?</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|---|-------------------------------------|--------------------------|

And NOT:

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Require the siting, construction or major expansion of waste treatment, storage, or disposal facilities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Disturb hazardous substances, pollutants, or contaminants preexisting in the environment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Adversely affect environmentally-sensitive resources identified in Section IV.A.? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5. Be connected to another existing/proposed activity that could potentially create a cumulatively significant impact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Have an inherent <i>possibility</i> for high consequence impacts to human health or the environment (e.g., Bio-safety Level 3-4 laboratories, activities involving high levels of radiation)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

If "Yes" to Question III.B. and ALL six subsequent questions, ensure the descriptions in Sections I and II reflect this and go directly to Section V.

IV. Potential Environmental Effects:

Attach/insert an explanation for each "Yes" response.

- A. Sensitive Resources: Will the proposed action result in changes and/or disturbances to any of the following resources?

- | | | |
|--|--------------------------|-------------------------------------|
| | Yes | No |
| 1. Threatened/Endangered Species and/or Critical Habitats | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Other Protected Species (e.g., Burros, Migratory Birds) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Archaeological/Historic Resources | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Important Farmland | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Non-Attainment Areas for Ambient Air Quality Standards | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Class I Air Quality Control Region | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Special Sources of Groundwater (e.g. Sole Source Aquifer) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9. Navigable Air Space | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Coastal Zones | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Areas with Special National Designation (e.g. National Forests, Parks, Trails) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Floodplains and Wetlands | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- B. Regulated Substances/Activities: Will the proposed action involve any of the following regulated items or activities?

- | | | |
|---|--------------------------|-------------------------------------|
| | Yes | No |
| 13. Natural Resource Damage Assessments | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14. Exotic Organisms | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Noxious Weeds | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16. Clearing or Excavation (indicate if greater than one acre) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17. Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than ten acres) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

B. Regulated Substances/Activities: Will the proposed action involve any of the following regulated Items or activities? (continued)

		Yes	No
18.	Noise (in excess of regulations) Most standard installation/maintenance/removal activities do not exceed decibel limits. All appropriate standards and associated protection for excessive noises will be followed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19.	Asbestos Removal Some activities may require the removal of asbestos containing materials. Asbestos removal and disposal activities will follow the ANL ESH Manual and the ANL Waste Handling Procedures Manual and ANL procedures. The removal would be performed by a qualified asbestos abatement contractor per Illinois regulations or trained Laboratory personnel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20.	PCB's PCB materials will be collected and disposed of according to Federal/State regulations and the ANL Waste Handling Procedures Manual and ANL procedures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21.	Import, Manufacture, or Processing of Toxic Substances	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22.	Chemical Storage/Use Standard maintenance and construction materials are used and stored. These products could include paints, thinners, oil, grease cleaning products, etc. These products are typically stored in cabinets and/or mechanical maintenance rooms. Any chemicals not appropriate for use at NBL will not be allowed to be used.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.	Pesticide Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions Minor air emissions from painting activities, pumps and generators may occur. ANL is the permittee for the Title 5 (Clean Air Act Permit Program) Permit No. 043802AAA. As part of the ANL site, NBL is covered under the permit. As required by the permit, annually NBL prepares a permit compliance certification for submission to ANL.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.	Liquid Effluents Potable, process, sewer and sprinkler systems may be modified. Flushing, pressure testing and cleaning activities may take place. The discharge will only be to the sanitary or laboratory sewer systems, or to the retention tanks. The laboratory sewer system is the preferred system. No water shall be released to any storm water sewer system. ANL is the permittee for the National Permit Discharge Elimination System (NPDES) Permit No. IL0034592. As part of the ANL site, NBL is covered under the permit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26.	Underground Injection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27.	Hazardous Waste Minimum hazardous waste will be generated. Waste will be accumulated, managed, and documented in accordance with the ANL Waste Handling Procedures Manual, ANL procedures, the NBL ESH Manual and NBL procedures. ANL, as having hazardous waste treatment, storage and disposal (TSD) activities, is the permittee for the Resource Conservation and Recovery Act (RCRA) Permit No. IL3 890 008 946. NBL is not a TSD and thus does not have a RCRA permit. NBL generates and stores hazardous waste in accordance with 40 CFR Parts 260-262.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28.	Underground Storage Tanks NBL has an underground storage tank (550 gallon capacity) used to store diesel fuel for the emergency generator. The tank is maintained in accordance with the ANL Underground Storage Tanks Management Program and the ANL Maintenance Procedures Manual. 40 CFR Parts 110 and 112 apply as implemented through the ANL Spill Prevention, Control, and Countermeasures Plan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
29.	Radioactive Mixed Waste Minimum radioactive mixed waste will be generated. Waste will be accumulated, managed, and documented in accordance with 40 CFR Parts 260-262, DOE O 435.1, the ANL Waste Handling Procedures Manual, ANL procedures, the NBL ESH Manual and NBL procedures. NBL characterizes the waste and submits waste requisitions to ANL. After ANL approves the waste requisitions, the waste is	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- removed from NBL by ANL. ANL ships the waste for disposal in accordance with 40 CFR Parts 100-185.
- | | | | |
|-----|---|-------------------------------------|-------------------------------------|
| 30. | Radioactive Waste
Minimum radioactive waste will be generated. Waste will be packaged, characterized and documented in accordance with DOE O 435.1, the ANL Waste Handling Procedures Manual, ANL procedures, the NBL ESH Manual, and NBL procedures. NBL characterizes the waste and submits waste requisitions to ANL. After ANL approves the waste requisitions, the waste is removed from NBL by ANL. ANL ships the waste for disposal in accordance with 40 CFR Parts 100-185. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 31. | Radiation Exposure
Small amounts of radioactive contamination may be encountered. Only trained personnel will be allowed to work on the contaminated building components. Radiological protection will be provided according to the NBL Radiation Protection Plan and NBL procedures. Planned radiation exposures will follow the principle of "As Low As Reasonably Achievable" and will not exceed the NBL administrative limits as outlined in the NBL Radiation Protection Plan. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 32. | Surface Water Protection | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 33. | Pollution Prevention Act
NBL is committed to pollution prevention through its Environmental Policy and the EMS. Sustainable acquisition and material recycling is used when it is feasible or practical to do so. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 34. | Ozone Depleting Substances
Refrigerants used in chillers are managed by ANL in accordance with the requirements of the Title 5 (Clean Air Act Permit Program) Permit No. 043802AAA. Recovered Freon is shipped offsite through ANL's hazardous waste vendor for disposal and/or recycling. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 35. | Off-Road Vehicles | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 36. | Bio-safety Level 3-4 Laboratory | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

C. Other Relevant Information: Will the proposed action involve the following?

- | | Yes | No |
|--|-------------------------------------|-------------------------------------|
| 37. Potential Violation of Environment, Safety, or Health Regulations/Permits | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 38. Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 39. Disturbance of Pre-existing Contamination
Radioactive contamination may exist in building components such as walls, sub floors, duct work, etc. During routine maintenance/removal/renovation activities, contamination may be disturbed but will be managed such that there will be no uncontrolled or un-permitted release. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 40. New or Modified Federal/State Permits | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 41. Public Controversy | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 42. Environmental Justice | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 43. Action/Involvement of Another Federal Agency (e.g. license, funding, approval) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 44. Action of a State Agency in a State with NEPA-type law. (Does the State Environmental Quality Review Act apply?) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 45. Public Utilities/Services | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 46. Depletion of a Non-Renewable Resource | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 47. Extraordinary Circumstances | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 48. Connected Actions | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 49. Exclusively Bench-top Research | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50. Only a Laboratory Setting
This evaluation does not include the construction of new buildings. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

V. Financial Assistance Award Organization Concurrence:

A. Organization Official (Name and Title): N/A

Signature: _____ Date: _____

e-mail: _____ Phone: _____

B. Optional Concurrence (Name and Title): N/A

Signature: _____ Date: _____

e-mail: _____ Phone: _____

Remainder to be completed by SC-CH

VI. SC-CH Concurrence/Recommendation/Determination:

A. SC-CH Office of Acquisition and Assistance or Office of Safety, Technical & Infrastructure Services:

Project Director or Contract

Specialist (Name and Title): Heidi Williams, Environmental Protection Specialist

Signature: *Williams*

Date: 6/8/12

B. SC-CH NEPA Team Review:

Is the project/activity appropriate for a determination or a recommendation to the Head of the Field Organization by the NEPA Compliance Officer (NCO) under Subpart D of the DOE NEPA Regulations?

Yes

No

Specific class(es) of action from Appendices A-D to Subpart D (10 CFR 1021): CX Category B1.3, B1.4, B1.5, B1.11, B1.15, B1.16, B1.17, B1.22, B1.27, B2.1, B2.2, B2.3, B2.5

Name and Title: _____

Signature: _____

Date: _____

C. SC-CH Counsel (if necessary):

Name and Title: Michelle R. McKown

Signature: *Michelle R. McKown*

Date: 6/8/12

D. SC-CH NEPA Compliance Officer:

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR 1021.400.

- Action may be categorically excluded from further NEPA review. I have determined that the proposed Action meets the requirements for Categorical Exclusion referenced above.
- Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.
- Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.

Comments/Limitations if necessary:

Signature: *Peter R. Siebach*

Peter R. Siebach
SC-CH NEPA Compliance Officer

Date: 6/8/12