

U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE
INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA)
ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "Applicant," i.e., organization with responsibilities for a "Federal action" involving application to DOE for a permit, license, exemption or allocation, or other similar actions. For assistance with this Form, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Solicitation/Award No. (if applicable): NA

Organization Name: Ames Laboratory

Proposed Action Title: Site-Wide Categorical Exclusion: Renovations and maintenance activities for buildings, structures, infrastructure, etc.

Total DOE Funding/Total Funding: NA

I. Project Description: (Use explanation pages if additional space is required)

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

See attached.

B. Would the project proceed without Federal funding?

Yes No

If "yes," use explanation page.

II. Description of Affected Environment: (Use explanation pages if additional space is required)

See attached.

III. Preliminary Questions:

- | | Yes | No |
|---|--------------------------|-------------------------------------|
| A. <u>Is the DOE-funded work routinely administrative or <i>entirely</i> advisory or 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. Is there any potential whatsoever for: (Provide an explanation for each "Yes" response)

- | | | |
|--|-------------------------------------|-------------------------------------|
| 1. Work to be performed outdoors? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Major modification of a building interior? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Threat of violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. Siting, construction or major expansion of waste treatment, storage, or disposal facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Disturbance to hazardous substances, pollutants, or contaminants preexisting in the environment? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. The presence of any environmentally-sensitive resources? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 7. Any potential whatsoever for high consequence impacts to human health or the environment? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. The work being connected to another existing/proposed activity that could potentially create a significant impact? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9. Nearby past, present, and/or reasonably foreseeable future actions such that collectively significant impacts could result? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. Scientific or public controversy, uncertainty over potential impacts, or conflicts regarding resource usage? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

If "No" to ALL Section III.B. questions, go directly to Section V.

IV. Potential Environmental Effects: (Provide an explanation for each "Yes" response)

- A. Environmentally Sensitive Resources: Could the proposed action potentially 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, Pollinators) | <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. Cultural or 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/or Wetlands | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

- | | | |
|--|--------------------------|-------------------------------------|
| 13. Natural Resource Damage Assessments | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14. Invasive Species or Exotic Organisms | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Noxious Weeds | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16. Clearing or Excavation greater than one acre or Removal of Trees Governed by Local Requirement | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17. Dredge or Fill (under Clean Water Act, Section 404, greater than one acre) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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

	Yes	No
18. Noise (in excess of regulations)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Asbestos Removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Polychlorinated biphenyls (PCBs)	<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	<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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25. Liquid Effluents	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26. Spill Prevention/Surface Water Protection	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27. Underground Injection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28. Hazardous Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
29. Underground Storage Tanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30. Radioactive or Radioactive Mixed Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31. Radiation Exposure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32. Nanoscale Materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>
33. Genetically Engineered Microorganisms/Plants or Synthetic Biology	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34. Ozone Depleting Substances	<input checked="" type="checkbox"/>	<input type="checkbox"/>
35. Greenhouse Gas Generation/Sustainability	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36. Off-Road Vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>
37. Biosafety Level 3-4 Laboratory	<input type="checkbox"/>	<input checked="" type="checkbox"/>
38. Research on Human Subjects or other Vertebrate Animals	<input type="checkbox"/>	<input checked="" type="checkbox"/>
39. Facility footprint exceeds 5,000 Square Feet	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

	Yes	No
40. Disproportionate Nearby Presence of Minority and/or Low Income Populations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41. Existing, Modified, or New Federal/State Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>
42. Involvement of Another Federal Agency (e.g. license/permit, funding, approval)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
43. Action in a State with NEPA-type law	<input type="checkbox"/>	<input checked="" type="checkbox"/>
44. Expansion of Public Utilities/Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>
45. Depletion of a Non-Renewable Resources	<input type="checkbox"/>	<input checked="" type="checkbox"/>
46. Subject to an Existing Institutional Work Planning and Control Process	<input checked="" type="checkbox"/>	<input type="checkbox"/>
47. Other Pertinent Information Which Could Impact Human Health or the Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>

V. Applicant certification that to the best of their knowledge all information provided on this form is accurate:

Does this disclosure contain: classified, sensitive business, or other exempt information that DOE would not be obligated to disclose pursuant to the Freedom of Information Act. Yes No

A. Organization Official (Name and Title): Sarah Morris-Benavides, Environmental Specialist

Signature: Sarah Morris-Benavides Digitally signed by Sarah Morris-Benavides
Date: 2018.07.23 09:04:48 -05'00' Date: 7/23/18

e-mail: sarahmb@ameslab.gov Phone: 515-294-7923

B. Optional Secondary Approval (Name and Title): _____

Signature: _____ Date: _____

e-mail: _____ Phone: _____

Remainder to be completed by DOE

VI. DOE Concurrence/Recommendation/Determination:

A. DOE Project Director/Program Manager or Contract/Grant Management Specialist:

Has the Applicant completed this Form correctly?
Does an existing generic categorical exclusion apply?

Yes No

If yes, indicate: _____

Name and Title: Bruce Goplin, AMSO Site Representative

Signature: **BRUCE GOPLIN** Digitally signed by BRUCE GOPLIN
DN: cn=US, o=U.S. Government, ou=Department of Energy, cn=BRUCE
GOPLIN, o.9.2342.19200300.100.1.1*8901003243712
Date: 2018.07.25 13:04:48 -0500 Date: 7/25/18

B. DOE NEPA Team Review (if requested):

Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))?

Yes No

If yes, specify the class(es) of action: _____

Name and Title: _____

Signature: _____ Date: _____

C. DOE Counsel (if requested):

Name and Title: _____

Signature: _____ Date: _____

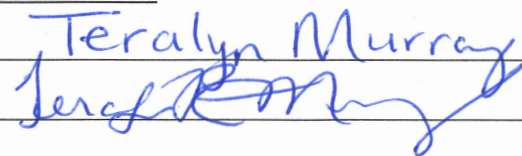
D. DOE NEPA Compliance Officer:

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR § 1021.410.

- 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 any:
See additional narrative.

NEPA Compliance Officer:

Name: Teralyn Murray
Signature:  Date: 7/25/18

Optional Additional Narrative:

I. Description of Proposed Action

This evaluation covers general renovation and maintenance activities which include: installation, modification, removal, replacement and preparation, for a wide variety of activities that occur for existing Ames Laboratory buildings and structures. This evaluation will also cover 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 small new projects or existing programs and facilities that require additional or modified space.

Activities include:

- 1) Mechanical installation/maintenance/removal of standard piping systems such as air, water, steam, natural gas, sanitary, hydraulic systems, laboratory, potable and fire protection devices, fixtures, insulation, and system structural supports; standard ductwork systems for HVAC and building systems including glove boxes, fume hoods, fans, and cooling coils.
- 2) Electrical installation/maintenance/removal of standard conduit and wire installation; standard and emergency lighting systems; electrical, such as outlets, disconnects, PA speakers, and communications systems such as public address, fire alarms, computers, etc.; small transformers, motors, switchgear, panels, motor control centers, circuit breakers and meters.
- 3) Civil/Structural installation/maintenance/removal activities covered under this action include: partition, block, 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 tuckpointing, sealing, wood and plastic panel replacements, tower and intake louvers. In addition, small support structures which will include concrete foundations, pads, above and below grade utilities contiguous to the building are included.

Restrictions:

Actions are not covered by this generic CX if an action would require a "yes" to be checked in Sections III.B. and IV. of the SC-CH Form 560 where none exists in the generic form, as defined in the associated instructions for Preparing SC-CH Form 560.

II. Description of Affected Environment:

The City of Ames, Iowa surrounds the ISU main campus (490 acres). The population of Ames is approximately 66,498, which includes the ISU student population of approximately 36,300. Ames is located in Story County, which has a population of approximately 97,502.

Ames Laboratory is located on the campus of Iowa State University (ISU) and occupies 12 buildings owned by the Department of Energy (DOE). See the Laboratory's Web page for location and Laboratory overview. The Laboratory also leases space in ISU owned buildings.

The climate is temperate continental, and is subject to wide temperature and precipitation ranges throughout the year. Mean monthly temperature varies from a low of minus 7.5 degrees Celsius (18.5F) in January to a high of 23.8 degrees Celsius (74.8 F) in July. Average rainfall equivalent precipitation varies from 1.8 centimeters (0.7 inches) in January to 13.7 centimeters (5.4 inches) in June.

The region's topography is gently rolling with a slight overall negative gradient to the southeast. Under the shallow topsoil, the soils are glacial till with a depth of approximately 19.8 meters (65 feet). This material is underlain by predominantly limestone bedrock. In the central campus area, the depth to first groundwater is approximately 3.0 meters (10 feet). Surface run-off flows into Squaw Creek, a tributary of the South Skunk River. The streams have a combined average daily flow of approximately 644 million liters (170 million gallons).

Activities are scoped to have minimal effect on the environment as the majority of work will be conducted inside buildings. Outside activities are minor and are adjacent to existing buildings in areas that have already been disturbed. Where practical, appropriate construction debris will be recycled. Hazardous and special waste, asbestos, radioactive waste will be disposed of per Federal/State regulations and Ames Laboratory procedures to ensure proper control.

III. Preliminary Questions

B.1. Work to be performed outdoors

Minor renovation activities may require work to be done outdoors (i.e., roof tops, tuckpointing, painting, etc.). Outside activities are minor and are adjacent to existing buildings and in areas that have already been disturbed.

IV. Potential Environmental Effects:

B.18 Noise

Most standard installation/maintenance/removal activities do not exceed decibel limits. When noise limits are expected to exceed industry limits, proper and appropriate hearing protection will be required.

B.19 Asbestos Removal

Activities may require the removal of asbestos containing materials. Asbestos Removal and disposal activities will follow the Ames Laboratory Asbestos Notification Procedure. Asbestos removal would be performed by a qualified asbestos abatement contractor (or trained Laboratory/University personnel) as set forth under 40 CFR Part 763 Appendix C to Subpart E "Asbestos Model Accreditation Plan", licensed by the Iowa Division of Labor. The 40 CFR Part 61, Subpart M (National Emission Standard for Asbestos), Section 61.145 (standard for demolition), and the Iowa Administrative Rules, Chapter 155 (Asbestos Removal and Encapsulation) would be followed.

B.20 PCB's

PCB materials will be collected and disposed of according to Federal/State regulations and Laboratory procedures. Primarily limited to light ballasts.

B.22 Chemical Storage/Use

Small amounts of paints, thinners, greases and water treatment chemicals are stored in cabinets and/or mechanical maintenance rooms. All special products, chemicals, etc. stored or used will be

accompanied by MSDS sheets identifying their hazards. Any chemicals not appropriate for use at the Laboratory will not be allowed to be used.

B.24 Hazardous, Toxic, or Criteria Pollutant Air Emissions

The paint shop is utilized to repaint laboratory equipment and furniture. The spray booth is permitted per Iowa Administration Code 567 IAC Chapter 22. The spray booth is considered a minor Emissions source by the Iowa Department of Natural Resource – Air Quality Division.

B.26 Spill Prevention/Surface Water Protection

The Laboratory has established SPCC training for appropriate personnel and has an SPCC Plan 10200.037 for the facility.

B.28 Hazardous Waste

Small amounts of hazardous waste may be generated from painting and other maintenance activities. All chemical users and hazardous waste generators are required to take the Laboratory's Waste Generator Training. Hazardous waste is collected and disposed of according to Federal/State regulations and Laboratory procedures.

B.30 Radioactive Waste

Due to legacy contamination, renovation and routine maintenance activities may generate radioactive low-level waste (LLW). LLW is managed per DOE Order 435.1 and the Ames Laboratory procedures. ESH&A provides oversight during activities that could potential generate legacy LLW.

B.31 Radiation Exposures

Small amounts of low-level radioactive contamination may be encountered. Only trained personnel will be allowed to work on contaminated building components with oversight performed by Health Physics Personnel. Planned radiation exposures will follow 10 CFR 835 for workers and DOE O 458.1 for the Public and the Environment and specifically, the principle of "As Low as reasonably Achievable" and will not exceed the Ames Laboratory's administrative limits as outlined in the Radiation Protection Program Plan, 10202.004.

B.34 Ozone Depleting Substances

Refrigerant recovery. The Laboratory's recovery equipment is registered with the EPA under #608. Recovered Freon is shipped offsite through the Laboratory's hazardous waste vendor for disposal and/or recycling.

C46. Subject to an Existing Work Planning and Control Process

Ames Laboratory has an internal procedure to ensure that activities are planned, the hazards associated are identified, categorized and controls are used to protect personnel and the environment. Activities are reviewed at the developmental stage, upon operation and periodically thereafter using a graded approach based on the hazard category.

VI. Applicable Categories Under 10 CFR Part 1021, Appendix A to Subpart D

B1.3 Routine maintenance/custodial services for building; B1.4 Installation/modification of air conditioning systems for existing equipment; B1.5 Minor improvements to existing steam plants and cooling water systems, provided that the improvements would not: (1) Create new sources of water or involve new receiving waters; (2) have the potential to cause significant impacts on water withdrawals or the temperature of discharged water; or (3) increase hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products; B1.6 Installation or modification of retention tanks or small basins and associated piping and pumps for existing operations to control runoff or spills; B1.7 Acquisition, installation, operation, modification, and removal of electricity transmission equipment, communication systems, data processing equipment; B1.8 Modifications to screened water intake and outflow structures; B1.11 Installation of fencing, no adverse impacts on wildlife populations or migration or surface water flow; B1.13 Construction, acquisition, and relocation of on-site pathways, small outdoor fitness areas, and short access roads and rail lines; B1.15 Siting, construction or modification, and operation of support buildings and support structures; B1.16 Removal of asbestos-containing materials from buildings in accordance with applicable requirements; B1.17 Removal of polychlorinated biphenyl (PCB)-containing items from buildings or other aboveground locations in accordance with applicable requirements; B1.21 Noise abatement measures; B1.22 Relocation of buildings to an already developed area; B1.23 Demolition/disposal of buildings, equipment, and support structures, no adverse impact to public health or the environment; B.27 Disconnection of utilities; B.28 Minor activities that are required to place a facility in an environmentally safe condition, no proposed use for facility; B1.31 Installation or relocation and operation of machinery and equipment; B1.32 Adjustments to traffic flow, existing roads; B2.1 Modifications to an existing structure, in a previously disturbed or developed area, to enhance workplace habitability; B2.3 Installation of equipment for personnel safety and health; B2.5 Safety and environmental improvements of facility, replacement/upgrade facility components.