

Ames Laboratory		Plan	10200.025
Office	Environment, Safety, Health & Assurance	Revision	4
Title	NEPA Plan	Effective Date	08/15/08
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Ames Laboratory National Environmental Policy Act Plan

The Ames Laboratory National Environmental Policy Act (NEPA) Plan shall ensure that all Program Directors/Department Managers and Group/Section Managers properly address environmental concerns involving their research and/or operational activities. The Plan will also ensure environmental concerns of site investigation and restoration activities are addressed.

Comments and questions regarding this policy and procedure should be directed to the contact person listed below:

Name: Dan Kayser
Environmental Specialist
Address: G40 TASF
Phone: 294-7923

SIGN-OFF RECORD:

Approved by: _____ Date: _____
Jim H. Withers, ESH&A Assistant Manager

Approved by: _____ Date: _____
Tom E. Wessels, Manager, ESH&A

Approved by: _____ Date: _____
Mark L. Murphy, Chief Operations Officer

Approved by: _____ Date: _____
Dr. Bruce N. Harmon, Deputy Director

Note: This document's Sign-off Record is maintained in the ESH&A Documents & Records Office, 151 TASF.

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1.0 Revision/Review Log

The environmental specialist will review this document every three years.

Revision Number	Effective Date	Contact Person	Pages Affected	Description of Revision
0	4/30/95	W. Waters	All	Initial Issue
1	11/1/99	D. Kayser	All	Review
2	11/4/02	D. Kayser	7	Revised Flowchart
3	08/29/05	D. Kayser	All	G:\Doc&Rec\DCP\Revision Description\Plan 102_025revdesc.doc
4	08/15/08	D. Kayser	1,4,5,8,9	G:\Doc&Rec\DCP\Revision Description\Plan 102_025revdesc.doc

2.0 Purpose and Scope

The purpose of this plan is to ensure that proposed actions at Ames Laboratory are reviewed in accordance with the Council on Environmental Quality (CEQ) and the National Environmental Policy Act (NEPA) for the Department of Energy (DOE). Applicable CEQ guidance is in 40 CFR 1500 through 1508. DOE NEPA is found in 10 CFR 1021. Research activities and site investigation and restoration activities will be conducted in such a manner that worker and public safety, including protection of the environment, is given the highest priority. The Laboratory will comply with all applicable federal and state environmental laws and regulations.

3.0 Prerequisite Actions and Requirements

3.1 Definitions

Categorical Exclusion (CX): Categorical Exclusions are a class of actions, as defined in CEQ Regulations in 40 CFR 1508 and listed in Section D, Appendix A, of the DOE NEPA guidelines (10 CFR 1021), that do not individually or cumulatively have significant impact on the human environment and for which neither and Environmental Assessment (EA) nor an Environmental Impact Statement (EIS) is normally required.

NEPA Environmental Evaluation Notification Form (CH-560): An Environmental Evaluation Notification Form is a comprehensive checklist that is utilized by the Laboratory's NEPA Coordinator to determine a proposed activities impact on the environment. The checklist may also be used to support a determination for a CX or for a recommendation to a Secretarial Officer in support of a preliminary proposal form (where authority has not been delegated to the Chicago Operations Office Manager).

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Environmental Assessment (EA): An Environmental Assessment is a document defined in 40 CFR 1508 that assesses whether a proposed action is a “major federal action significantly affecting the quality of the human environment,” and serves as the basis for determining whether to prepare an EIS or a Finding of No Significant Impact (FONSI).

Environmental Impact Statement (EIS): An EIS is a document defined in 40 CFR 1508 and prepared in accordance with the requirements of Section 102(2)(C) of NEPA for DOE, the CEQ regulations, and the DOE NEPA guidance. The EIS thoroughly details the environmental impacts of a proposed action.

ES&H Hazard Identification Checklist (Form 10200.003): This is an internal form that helps the Project Manager and ESH&A identify hazards associated with the proposed activity.

Finding of No Significant Impact (FONSI): A FONSI is a document defined in 40 CFR 1508.13 of the CEQ Regulations. It is prepared to record a decision that the environmental impacts of a proposed activity considered in an EA will not have a significant effect on the environment, and that an EIS is not required for the proposed action.

Preliminary Proposal Form (10100.001): The principal investigator completes this form. The form contains a concise description of a proposed activity and discussion of relevant potential environmental impacts intended to assist ESH&A and DOE Chicago Operations Office (DOE-CH) in determining the appropriate level of NEPA documentation needed for a proposed activity.

Work Authorization System (WAS): A comprehensive document describing research proposals and continuations, and requesting funding for the described work. NEPA and safety and health issues are addressed in the WAS for each project individually.

3.2 Responsibility

Line management is responsible for assuring minimal environmental impact by the Laboratory’s activities and for implementing the Laboratory’s environmental protection requirements. All employees are responsible for performing their work in a manner that complies with established environmental protection requirements. Employees are encouraged to suggest improvements in the environmental protection program. They have the right to bring to the attention of their supervisors or ESH&A any condition they believe is environmentally unsound or out of compliance with applicable environmental laws, regulations or orders. This plan applies to all employees at the main campus, the Applied Science Complex (ASC) and all spaces rented by the Laboratory.

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3.3.1 ESH&A Manager:

The Deputy Director shall approve the Laboratory's NEPA plan to ensure that environmental factors are adequately considered along with other action considerations in the decision making process. The ESH&A Manager has delegated the authority for signatory approval of NEPA documentation to the Laboratory's NEPA Coordinator and the ESH&A Assistant Manager.

3.3.2 Program Directors/Department Managers:

Program Directors and Department Managers are responsible for being knowledgeable of and implementing applicable environmental protection policies, procedures and directives. They are responsible for taking actions as required to assure that personnel and operations they supervise comply with requirements. This includes taking positive action to determine and reduce, to as low as reasonably achievable, the environmental impact associated with their activities. They will ensure that environmental factors are adequately considered along with other action considerations in the decision making process, and inform employees of the environmental hazards associated with their work.

Program Directors and Department Managers shall ensure that the potential environmental consequences of a proposed activity are identified, evaluated, and documented, as necessary. New activities may require completion of an environmental evaluation form (See Appendix A) early in the planning process. Appropriate alternatives and mitigative measures shall be identified and evaluated. They shall ensure that any EA's or EIS's are prepared in accordance with appropriate DOE Orders and CEQ Regulations. The NEPA Coordinator will assist directors and managers in these efforts. They shall inform the NEPA Coordinator in writing, in a timely matter, of all deviations from planned actions which would affect the accuracy and objectivity of completed NEPA documents.

3.3.3 Project Manager(PM)/Principal Investigator(PI):

If required by the NEPA Coordinator or the ESH&A Assistant Manager the PM/PI shall prepare, sign and date an environmental evaluation form for each applicable activity. They shall initiate and coordinate necessary environmental documentation, reviews, and permit applications during the appropriate phases of action development. They shall assess any potential environmental impacts and develop suitable mitigation measures to minimize these impacts. They shall coordinate the applications for any environmental permits through the ESH&A office, and provide the NEPA Coordinator with sufficient documentation in a timely manner so as not to delay the proposed action.

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3.3.4 Ames Laboratory NEPA Coordinator:

The Ames Laboratory NEPA Coordinator shall provide the Project Manager with assistance concerning environmental factors that should be considered in action planning and execution. The NEPA Coordinator shall keep the ESH&A Manager advised of all NEPA activities. The NEPA Coordinator or ESH&A Assistant Manager shall review each **Preliminary Proposal Form (10100.001) and determine if the proposed activity falls under one of the following Laboratory CXs: 1) “Bench-Scale Research Projects and Conventional Laboratory Operations” or 2) “Renovations and Maintenance Activities for Buildings, Structures and Equipment.” (See Appendix A).** In coordination with the ESH&A Manager, the Coordinator shall advise the Project Manager and the applicable Program Director/Department Manager, of noncompliance with applicable laws and regulations, and Ames Laboratory or DOE policies. The Coordinator shall conduct reviews of the environmental evaluations for accuracy and completeness, and sign, date and transmit them to DOE-Chicago Operations Office. The NEPA Coordinator shall process and coordinate all necessary environmental permit applications through the DOE-Chicago Operations Office, and shall transmit DOE NEPA determinations and information requests to the appropriate Project Manager. The ESH&A Office shall maintain environmental documentation for all actions, including NEPA documentation in a suitable format for compliance auditing.

3.3.5 ESH&A Assistant Manager:

The ESH&A Assistant Manager shall assume the duties of the NEPA Coordinator in his absence and shall have signature authority as delegated by the ESH&A Manager.

4.0 Introduction Statement

All new or continuing activities, including projects, programs, and activities entirely or partly financed, assisted, conducted, regulated or approved by DOE shall require NEPA evaluation prior to commencement of the proposed activity. Each work proposal shall be identified with one of the four Work Authorization Systems (WAS) categories. If NEPA documentation needs to be prepared for DOE approval, it shall result in a categorical exclusion (CX), an environmental assessment (EA), or environmental impact statement (EIS).

5.0 NEPA Policy (10200.008)

It is the policy of Ames Laboratory to conduct all its activities in an environmentally safe manner. This will be accomplished through formal reviews and evaluations at appropriate levels of the organizational structure.

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6.0 NEPA Procedure (10200.050)

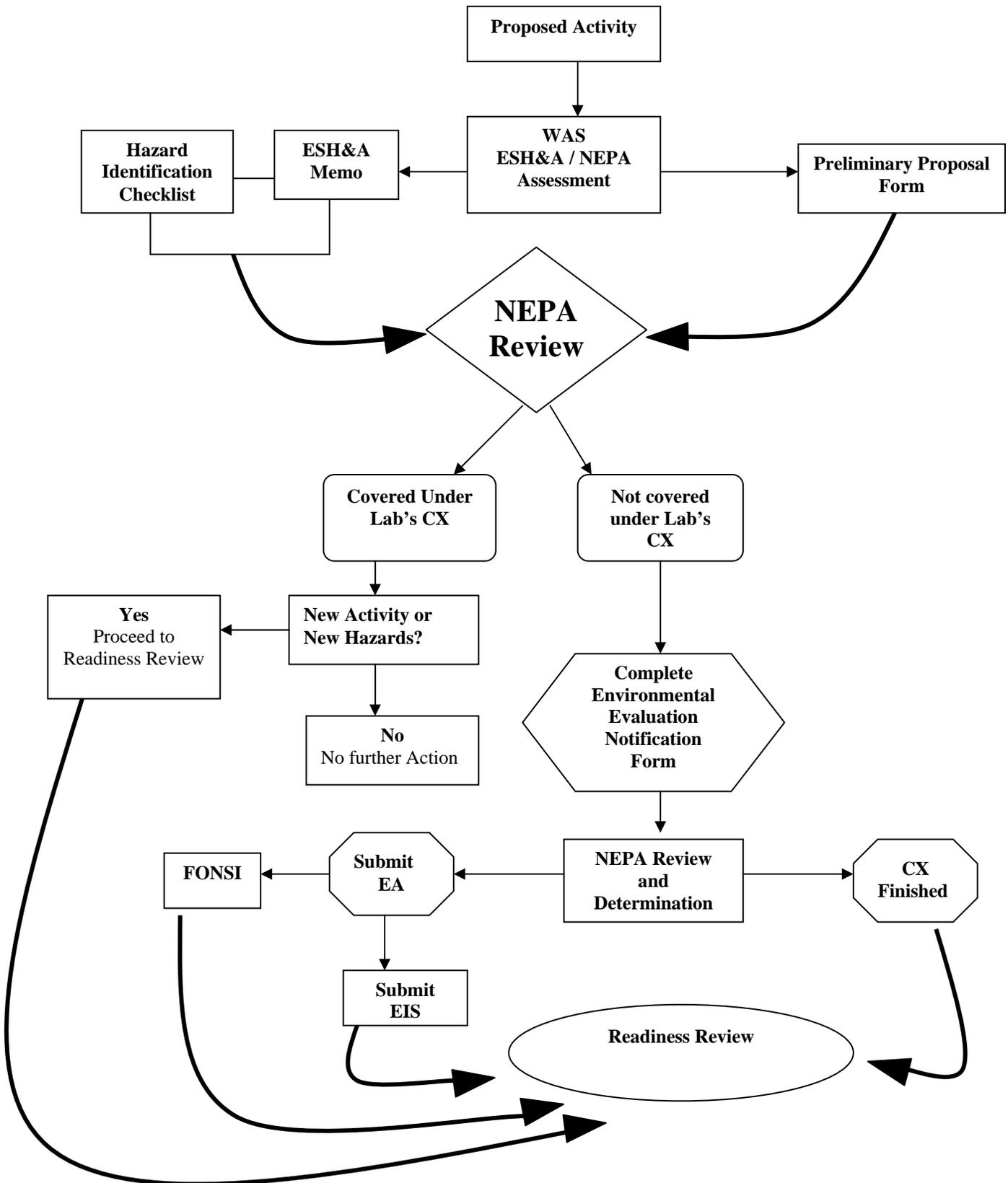
Work Authorization Systems (WAS) submissions, along with the ES&H Hazard Identification Checklist (Form 10200.003, see Appendix A), and ESH&A Memo (see Appendix A) are reviewed by the NEPA Coordinator and/or ESH&A Assistant Manager. The NEPA Coordinator or Assistant ESH&A Manager should be contacted during preliminary proposal stage of all proposed activities. The preliminary proposal (Form 10100.001, see Appendix A) is reviewed by the NEPA Coordinator and/or the assistant ESH&A Manager. The DOE-CH NEPA Compliance Officer will be consulted as needed by the NEPA Coordinator. The NEPA Coordinator will provide guidance on the NEPA review process and on preparation of the environmental evaluation form, if required, to the appropriate personnel.

If the proposed activity does not fall under one of the **Laboratory's CXs (see Appendix A)** the Project Manager of the proposed activity must fill-out the environmental evaluation form (form CH-560, see Appendix A). The form is then given to the NEPA Coordinator. The NEPA Coordinator for accuracy and completeness reviews the completed environmental evaluation form. If the form is found to be incompletely prepared, or inaccurate, the Project Manager will be requested to provide the necessary information. When the environmental evaluation has been satisfactorily prepared, the NEPA Coordinator will sign and date the form and transmit to the DOE-CH NEPA Compliance Officer.

The environmental evaluation is reviewed by DOE-CH for accuracy and completeness. If the environmental form is found to be deficient in any way, the NEPA Coordinator will be requested by DOE-CH to obtain the additional information from the Project Manager. DOE's determination as to the level of NEPA documentation (i.e. CX, EA, or EIS) required for the proposed action is transmitted to the Ames Laboratory's NEPA Coordinator. DOE-CH has authority to approve CX's and some EA's. Upon receipt of the official notification from DOE-CH, the NEPA Coordinator notifies the Project Manager and the appropriate Program Director/Group Manager. Upon receipt of official notification from DOE-CH of a CX determination, the approved activity may proceed. If an EA or EIS is determined to be necessary, the Project Manager must respond to the DOE request by preparing the document and submitting it to DOE via the NEPA Coordinator. After a period of review and document on EA or EIS, DOE will notify the NEPA Coordinator of the final NEPA decision. The NEPA Coordinator will notify the Project Manager and appropriate Program Director/Department Manager of DOE's final decision.

An additional step in the process at Ames Laboratory is supportive to the NEPA procedure. The Readiness Review (Procedure 10200.10) of a new activity addresses all safety, health and environmental concerns. The Project Manager and/or Program Director identify any hazards associated with the proposed activity. ESH&A staff meets to discuss the concerns and to assign a lead specialist. The lead specialist works with the activity supervisor to resolve all safety and environmental concerns from project proposal, equipment procurement, testing and operation of the new activity.

NEPA REVIEW FLOW CHART



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APPENDIX A

ATTACHMENTS

- **ESH&A Memo**
- **Activity ES&H Identification Checklist (Form 10200.003)**
- **Preliminary Proposal Form (Form 10100.001)**
- **CX NEPA Environmental Evaluation Form (CH-560) for Bench-Scale Research Projects and Conventional Laboratory Operations (10200.184).**
- **CX NEPA Environmental Evaluation Form (CH-560) for Facility Renovations/Maintenance Activities (Form 10200.173).**

Date:

To: Jim Withers
ESH&A
G40 TASF

From:

Re: Activity ES&H Hazard Identification Checklist

Work Proposal No. _____, being submitted in the FY2004 Work Authorization System (WAS), contains new or significantly modified activities that may or may not have ES&H issues and National Environmental Policy Act (NEPA) implications. Attached please find ____ Activity ES&H Hazard Identification Checklist(s) that has(have) been completed in conjunction with this project.

Questions may be referred to (name) _____ at
(phone)_____.

Attach.

Activity ES&H Hazard Identification Checklist

Name of Activity: _____

Activity Supervisor: (Print) _____

Location: Room _____ Building _____

ES&H Rep.'s/Coor.'s Signature _____

Employee # _____

Date _____

Group Leader's Signature
(Approved by) _____

Employee # _____

Date _____

IMPORTANT! Attach a hazard management statement for each item checked below.

Check all of the following that are applicable to/or involved with the activity. This checklist will be utilized by ESH&A in review of the activity.

A. Chemical and Biological Concerns

- Mercury or mercury compounds (e.g. dimethyl mercury).
- Research involving human subjects or animal studies.
- Chemicals requiring personnel medical monitoring (see "Federally Regulated Hazards": (www.external.ameslab.gov/esh/ESH&A_Documents/FormHazardInventory.pdf)).
- Hazardous or toxic chemicals (www.external.ameslab.gov/esh/ESH&A_Documents/CHPAppendixA&BAcuteHazardWastes.pdf).
- Extremely hazardous substances (<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=5fc8e8e3aaf2d0c06a2e4422bd279c23&rgn=div5&view=text&node=40%3A27.0.1.1.11&idno=40#40:27.0.1.1.11.0.9.6.14>).
- Flammable chemicals (flashpoint < 100°F) in quantities greater than 4 liters (1 gallon) in one room.
- Perchloric or picric acid, peroxide-formers (www.external.ameslab.gov/esh/ESH&A_Documents/CHPAppendicesK&L&MPeroxideFormers2.pdf).
- Pyrophoric or explosive materials (www.external.ameslab.gov/esh/ESH&A_Documents/CHPAppendicesH&IIncompatiblesShockers.pdf).
- Activities that generate potentially hazardous ambient air concentrations of nanoscale and other particulates, mists, fumes, vapors, or asphyxiates.
- Generation of chemical, mixed, or radioactive waste (as defined by the Ames Laboratory Waste Management Program Manual).
- Generation of new waste streams, or a > 20% increase in an existing waste stream.
- Biological materials (including human, plant or animal pathogens) (www.external.ameslab.gov/esh/ESH&A_Documents/ISUBiohazardousAgentsList.pdf).
- Suspected and/or confirmed carcinogens (www.external.ameslab.gov/esh/ESH&A_Documents/CHPAppendicesD&ECarcinogens.pdf).

B. Radiation Concerns

- Radioactive materials, radiation sources.
- Lasers (excludes laser printers and pointers).
- Radio frequency (RF) or microwave generators (excluding personal microwave ovens) of greater than 10 watts average output power.
- Ultraviolet radiation, which could expose personnel (e.g. arc welding, inductively coupled plasma, UV reactors, xenon lamps, etc.).
- Generation of Radioactively contaminated waste as defined by the Ames Laboratory Waste Management Program Manual.
- X-ray generating devices.

C. Electrical Concerns

- Work with exposed electrical wiring or parts with voltages greater than 50 volts.
- Work with stored energy systems (e.g. capacitor banks > 10 joules; station battery systems > 50 volts).
- Voltage systems of greater than 600 volts.
- Current systems of greater than 25 amps.
- Electrical devices not certified by a Nationally Recognized Testing Laboratory (e.g. Underwriters Laboratory, CSA, etc.).

D. Environmental Concerns

- Potential to release hazardous or radioactive materials to the sanitary or storm sewers, soil or air.
- Potential for release of chemical, physical, radiological agents (nanoscale and other particulates, fumes, mists, or vapors) via hood or exhaust system.
- Transportation of hazardous or radioactive materials, including laboratory-to-laboratory and on-site or off-site.
- Activities requiring an emission permit.

E. Physical and Mechanical Concerns

- Fabrication of major (large mass or volume) equipment, structural supports.
- Work that is done in the proximity of floor openings or on elevated work platforms or scaffolds.
- Activities that require use of safety eyewear, respirators and/or other forms of personal protective equipment (PPE).
- Use of a glove box.
- Torch work, exposed source hot-work, or exposed heat sources (e.g. welding, soldering, arc welding, furnaces, etc.).
- Rotating parts or pinch points.
- Fluids or gases and pressure delivery systems, other than installed building utilities (> +/- 5 psig).
- Pressure vessels, vacuum vessels, and glass systems (> +/- 5 psig).
- Use of hoists, cranes or rigging.
- Cryogenic systems (including thermal and/or oxygen deficiency hazards).
- Mechanical stored energy systems (e.g. flywheels, mechanical springs, etc.).
- Electromagnetic systems.

F. Workplace Concerns

- Confined space (as defined by Ames Laboratory ESH&A Program Manual, Section 5.18).
- Activities that limit means of egress.
- Temperature or humidity extremes.
- Work which produces acute noise that interferes with normal conversation.
- Activities that involve tasks of prolonged repetitive motion.
- Activities that involve lifting/moving of 20 pounds, lifting from awkward positions, or pushing/pulling of heavy objects.

G. Other Concerns

- Activities involving sub-contractors.
- Public tours of Ames Laboratory facilities or the use of equipment/materials for public displays.
- Area renovation.
- Activities that involve equipment valued at \$100,000 or more in one room or laboratory.
- Activities to be performed at an "off-site" location (ISU lab space, field location, or other off-campus facility). Only check this item if any other item is checked.

PRELIMINARY PROPOSAL FORM

Part 1. Proposed Work Description *(To be completed by the Principal Investigator)*

1. Proposal Number *(obtain by calling 4-6486)*: PP # _____

2. Title of Project: _____

3. Principal Investigator(s): *If conflict of interest exists, please complete and attach the form "Disclosure of Intent to Engage in Consulting on Activity with Potential Conflict of Interest". See Ames Lab Consulting & Conflict of Interest Policy for reference.*

<i>Type name(s) and telephone numbers (s)</i>	<i>Conflict of Interest?</i>	<i>Signature(s)</i>
_____ 294- _____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
_____ 294- _____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____
_____ 294- _____	Y <input type="checkbox"/> N <input type="checkbox"/>	_____

4. Project Duration: / / - / / 5. Estimated Funding Required: _____

6. Funding Source: _____

7. Proposed Funding Mechanism:

<input type="checkbox"/> Expanded DOE Programmatic Research	<input type="checkbox"/> Work for Other DOE Laboratories/Contractors
<input type="checkbox"/> Work for Others	<input type="checkbox"/> Work for Others Federal Agencies
<input type="checkbox"/> CRADA	<input type="checkbox"/> Other _____ <i>(Identify)</i>

8. Description of Project: _____

(Continue on attachment if necessary)

9. Technology Transfer/Industrial Competitiveness Benefits: _____

(Continue on attachment if necessary)

10. Space in which Project will be conducted, Building/Room No.(s): _____

11. Would Project interfere with other approved work? Yes No
If yes, explain _____

12. Could Project be conveniently/economically conducted by a private entity? Yes No
If yes, explain _____

13. Will results of this Project be published and shared broadly within the scientific community? Yes No

Part 2. ES&H Review (to be completed and signed by the Principal Investigator and ESH&A)

Some proposed research may require the approval of ISU committees (e.g. Institutional Review Board). This approval may take several weeks and is required prior to commencement of work. Please answer the following:

- Will vertebrate animals be used in this project? Yes No
- Will recombinant DNA, human or animal pathogens be used? Yes No
- Will human subjects be used in this project? Yes No

Readiness Review (to be completed and signed by the Principal Investigator and ESH&A)

Does the proposed project include new or significantly modified activities, which have not been reviewed and approved by the Ames Laboratory Safety Review Committee?

- YES (Please complete and attach an Activity ES&H Hazard Identification Checklist for each new or significantly modified activity related to this proposed work.)
- NO (No Further Action)

Principal Investigator

Date

ESH&A Office Representative

Date

Comments:

NEPA (National Environmental Policy Act) Implications (to be completed by ESH&A)

Does this proposed project fall under one of the Laboratory's Categorical Exclusions?

- YES Please indicate which one:
 1) "Bench-Scale Research Projects and Conventional Laboratory Activities" or
 2) "Renovations and Maintenance Activities for Buildings, Structures, Infrastructures and Equipment"
- NO (ESH&A will have Principal Investigator complete an *Environmental Evaluation Form* [CH-560] for further NEPA review by ESH&A.)

ESH&A Office Representative

Date

Comments:

Part 3. Budget and Personnel Requirements *(Completed with assistance from Budget Office)*

Include resource needs to address all aspects of the project including ES&H, NEPA, and waste disposal actions. *(Attach supplementary schedule as required)*

Budget Office Representative

Date

Part 4. Export Control *(To be completed by EC Officer)*

If funded, research described in the attached proposal will / will not be “fundamental research”.

Export Control Officer

Date

Remarks: _____

Part 5. Laboratory Approvals *(NOTE: The signatures below certify that they have reviewed the proposal for, and addressed, if necessary, any potential conflict of interest on the part of Ames Laboratory employees who have a substantial role in the preparation, negotiation, or approval of this project.)*

Program Director

Date

Associate Director
Sponsored Research Administration

Date

Deputy Director

Date

Summary: As per DOE Order 481.1B and DOE M 481.1-1; this document certifies that: 1) The proposed work is consistent with or complementary to DOE missions and the missions of the facility to which the work is to be assigned. 2) The proposed work will not adversely impact execution of assigned programs of the facility. 3) The proposed work will not place the facility in direct competition with the domestic private sector. 4) The proposed work will not create a detrimental future burden on DOE resources.

Note: After Deputy Director approves, return to Sponsored Research Administration Secretary, 311 TASF, for distribution.

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): NA

Organization Name: Ames Laboratory

Title of Proposed Project/Research: Site-Wide Categorical Exclusion: Bench-Scale Research Projects and Conventional Laboratory Operations.

Total DOE Funding/Total Project Funding: NA

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

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

See attached continuation sheet

B. Would the project proceed without Federal funding?

Yes

No

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

II. Description of Affected Environment:

See attached continuation sheet

III. Preliminary Questions:

- | | Yes | No |
|---|-------------------------------------|-------------------------------------|
| A. <u>Is the DOE-funded work <i>entirely</i> a "paper study"?</u> | <input checked="" 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 checked="" 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., Biosafety 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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19. Asbestos Removal	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20. PCB's	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21. Import, Manufacture, or Processing of Toxic Substances	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
26. Underground Injection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Hazardous Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28. Underground Storage Tanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Radioactive Mixed Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30. Radioactive Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31. Radiation Exposure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32. Surface Water Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
33. Pollution Prevention Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>
34. Ozone Depleting Substances	<input checked="" type="checkbox"/>	<input type="checkbox"/>
35. Off-Road Vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36. Biosafety 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	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>
50. Only a Laboratory Setting	<input checked="" type="checkbox"/>	<input type="checkbox"/>

V. Financial Assistance Award Organization Concurrence:

A. Organization Official (Name and Title): Dan Kayser, Environmental Specialist, Ames Laboratory

Signature: Daniel A. Kayser Date: 7/17/08

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

B. Optional Concurrence (Name and Title): Tom Wessels, Manager, ESH&A Ames Laboratory

Signature: Tom Wessels Date: 7/17/08

e-mail: wessels@ameslab.gov 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): Michael Saar, Facility Representative, Ames Site Office

Signature: Michael D. Saar Date: 7/9/2008

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): 5/12/08

Name and Title: ~~Peter R. Siebach, NCO~~ J. OPREZEDER

Signature: J. Opzedek Date: 7/10/08

C. SC-CH Counsel (if necessary):

Name and Title: Vicki L. Prouty, Assistant Chief Counsel

Signature: Vicki L. Prouty Date: 7/14/08

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: CX expires THREE years from date below.

THREE
920
7/14/08

Signature: Peter R. Siebach Date: 7/15/2008
Peter R. Siebach
SC-CH NEPA Compliance Officer

Ames Categorical Exclusion (CX)
Documentation for
Bench-Scale Research Projects and Conventional Laboratory Operations
Ames Form #10200.184

Continuation Sheet: Ames Laboratory Site-Wide Categorical Exclusion: Bench-scale research projects and conventional laboratory operations.

I. Description of Proposed Action

All proposed actions will be bench-scale research projects and conventional laboratory operations conducted in established buildings at Ames Laboratory and Iowa State University as well as offsite collaborations with other State and Federal entities. Specifically, bench-scale chemical, biological, physical and theoretical studies, experiments, and related activities including the assembly/disassembly of experimental instrumentation and research equipment are within the scope of the proposed actions.

Restrictions:

This categorical exclusion determination does not apply to the following activities:

- Research activities that require major building renovations or which might impact historic structures or equipment. Renovations are limited to minor activities as defined by 10 CFR 1021.410 B3.6.
- Biohazard work classified as Biosafety Level 2 or above.
- Research activities that generate "No Path Forward" wastes.
- Research activities that require new or modified regulatory permits.
- Pilot-scale or production activities to verify a concept or demonstrates a process.

II. Description of Affected Environment

All proposed activities will be conducted in an indoor/outdoor bench-scale laboratory setting. Indoor activities will take place in existing laboratory spaces. The Ames Laboratory has a procedure (Readiness Review) in place that addresses environment, safety and health implications for each research activity at the Laboratory. All environmental concerns are addressed at a formal meeting by the Environmental Specialist and resolved prior to the start of the proposed activities.

IV. Potential Environmental Effects

- B20. PCBs
Any PCBs associated with the proposed activities will be limited to the use of analytical standards and work with laboratory scale quantities of PCB-contaminated materials.
- B21. Import, Manufacture, or Processing of Toxic Substance
Some toxic substances may be imported and/or processed as a support and/or analytical function for proposed research activities. Research activities using a listed toxic substance will be required to go through the laboratory's Readiness Review process.
- B22. Chemical Storage/Use
Proposed research activities may involve the use and storage of chemicals. Chemicals are typically small quantities (≤ 4 liters). All chemicals are handled according to the Ames Laboratory's Laboratory Safety Manual. In the event that chemicals are stored and/or used in quantities \geq those listed in 40 CFR Parts 355 and 372, will undergo the Readiness Review process prior to starting the activity.

Ames Categorical Exclusion (CX)
Documentation for
Bench-Scale Research Projects and Conventional Laboratory Operations
Ames Form #10200.184

- B24. **Hazardous, Toxic, or Criteria Pollutant Air Emissions**
Some bench-scale research activities may emit low levels of hazardous air pollutants or criteria pollutants as defined by the Clean Air Act. Given the limited quantities of materials used in bench-scale activities, emissions will not have a significant impact on the environment. Research activities involving radionuclide air emissions must go through the Laboratory's Readiness Review process prior to their start.
- B25. **Liquid Effluent**
The proposed research activities that generate liquid effluent are subject to the Laboratory's Readiness Review process prior to their start. Ames Laboratory ES&H policy and procedures prohibit the disposal of hazardous materials and chemicals in any drains.
- B27. **Hazardous Waste**
The proposed activities may involve the generation of hazardous waste. Waste will be accumulated, managed and documented in accordance with the Ames Laboratory's Waste Management Program Manual. All chemical users are required to take the Laboratory's Waste Generator Training.
- B30. **Radioactive Waste**
The proposed activities may involve the generation of radioactive waste. Waste will be accumulated, managed and documented in accordance with the Laboratory's Waste Management Program Manual. All chemical users are required to take the Laboratory's Waste Generator Training.
- B31. **Radiation Exposure**
The proposed activities may involve the use of radioactive materials or Radiation-generating devices. Radiological protection will be provided by the Radiation Safety Officer according to the Laboratory's Radiation Safety Manual. Planned radiation exposures will follow the principles of "As Low as Reasonably Achievable" and will not exceed the Laboratory's administrative limits. All radioactive materials users are required to take the Laboratory's General Employee Radiation Training.
- B33. **Pollution Prevention**
Pollution prevention is taken into account when an activity goes through the Readiness Review process.
- B34. **Ozone Depleting Substances**
Some bench-scale research activities may use and emit low levels of ozone depleting substances.
- C49. **Exclusively bench-top research**
All research activities are non-production activities. Activities are small scale (bench-top) and are carried out in a laboratory setting.
- C50. **Only a Laboratory Setting**
Research activities will be conducted in an existing Ames Laboratory and/or Iowa State University laboratory and/or at existing offsite locations. No new facilities/buildings will be built for a single project.

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): NA

Organization Name: Ames Laboratory

Title of Proposed Project/Research: Site-Wide Categorical Exclusion: Renovations and maintenance activities for buildings, structures, infrastructures and equipment

Total DOE Funding/Total Project Funding: NA

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

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

See attached continuation sheet

B. Would the project proceed without Federal funding?

Yes

No

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

II. Description of Affected Environment:

See attached continuation sheet

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 checked="" 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 checked="" 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., Biosafety 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)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Asbestos Removal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. PCB's	<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. Underground Injection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27. Hazardous Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
28. Underground Storage Tanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29. Radioactive Mixed Waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30. Radioactive Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31. Radiation Exposure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
32. Surface Water Protection	<input type="checkbox"/>	<input checked="" type="checkbox"/>
33. Pollution Prevention Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>
34. Ozone Depleting Substances	<input checked="" type="checkbox"/>	<input type="checkbox"/>
35. Off-Road Vehicles	<input type="checkbox"/>	<input checked="" type="checkbox"/>
36. Biosafety 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	<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	<input checked="" type="checkbox"/>	<input type="checkbox"/>

V. Financial Assistance Award Organization Concurrence:

A. Organization Official (Name and Title): Dan Kayser, Environmental Specialist, Ames Laboratory

Signature: *Daniel A. Kayser* Date: 7/17/08

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

B. Optional Concurrence (Name and Title): Mark Grootveld, Manager, Facility Services Ames Laboratory

Signature: *Mark Grootveld* Date: 7/17/08

e-mail: grootveld@ameslab.gov Phone: 515-294-7895

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): Michael Saar, Facility Representative, Ames Site Office

Signature: Michael D. Saar Date: 7/9/2008

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): B1.3, B1.4, B1.5, B1.9, B1.11, B1.15, B1.16, B1.22, B1.27, B2.1, B2.2, B2.3, B2.5

Name and Title: ~~Peter R. Siebach, NCO~~ J. OPZEDK

Signature: J. Opzedk Date: 7/10/08

C. SC-CH Counsel (if necessary):

Name and Title: Vicki L. Prouty, Assistant Chief Counsel

Signature: Vicki L. Prouty Date: 7/14/08

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: CX expires ~~1~~ THREE years from date below.

THREE
YRS
7/14/08

Signature: Peter R. Siebach Date: 7/15/2008
Peter R. Siebach
SC-CH NEPA Compliance Officer

Ames Site- Wide Categorical Exclusion (CX)
Documentation for
Renovations and Maintenance Activities for Buildings, Structures, Infrastructures
and Equipment
Ames Form #10200.173

Continuation Sheet: Ames Laboratory Site-Wide Categorical Exclusion:
Renovations and maintenance activities for buildings, structures, infrastructures
and equipment

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.

Ames Site- Wide Categorical Exclusion (CX)
Documentation for
Renovations and Maintenance Activities for Buildings, Structures, Infrastructures
and Equipment
Ames Form #10200.173

Restrictions:

All activities will follow the conditions in 10CFR1021, 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 wetlands or flood plains.
- Activities which require modifications to Federal or State permits.
- Support structure installations activities exclusively built for a major programmatic installation that will modify/affect existing EPA permits.
- Installation of new buildings.

II. Description of Affected Environment:

These activities are scoped to have minimal effect on the environment as the majority of work will be conducted inside buildings. 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.

#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.

#19 Asbestos Removal -- Some activities may require the removal of asbestos containing materials. Asbestos Removal and disposal activities will follow the Ames Laboratory Asbestos Notification Procedure (10200.074). The 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.

#20 PCB's -- PCBs materials will be collected and disposed of according to Federal/State regulations and Laboratory procedures.

Ames Site- Wide Categorical Exclusion (CX)
Documentation for
Renovations and Maintenance Activities for Buildings, Structures, Infrastructures
and Equipment
Ames Form #10200.173

#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.

#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.

#27 Hazardous Waste -- Small amounts of hazardous waste may be generated from painting and other maintenance activities. Waste is handled according to the Laboratory's established hazardous waste procedures.

#30 Radioactive Waste -- Due to legacy contamination, renovation and routine maintenance activities may generate radioactive LLW. It would be managed per DOE Order 435.1 and the Ames Laboratory procedure # 10200.048.

#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 the DOE Orders (5400 Series) 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 Safety Manual (#10202.001).

#33 Pollution Prevention Act -- Materials will be recycled when it is feasible or practical to do so.

#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.

Ames Site- Wide Categorical Exclusion (CX)
Documentation for
Renovations and Maintenance Activities for Buildings, Structures, Infrastructures
and Equipment
Ames Form #10200.173

#39 Disturbance of Pre-existing Contamination -- Radioactive low-level contamination exists 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 would be no uncontrolled or unpermitted release. See sections 30 & 31.

#50 Will the proposed work be performed in an existing laboratory setting? -- This evaluation does not include the construction of new buildings.