

U. S. DEPARTMENT OF ENERGY
OFFICE OF SCIENCE

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 F-560, Environmental Evaluation Notification Form".

Solicitation/Award No. (if
applicable):

Organization Lawrence Berkeley National Laboratory

Name:

Title of Proposed Installation of a Prefabricated 130 SQFT Building Adjacent to Building 67
Project/Research: at the Lawrence Berkeley National Laboratory

Total DOE Funding/Total Project \$136,000

Funding:

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

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

The Department of Energy (DOE) proposes to install a prefabricated approximately 130 SQFT building on a newly constructed concrete pad adjacent to Building 67 on LBNL. The building would store chemical and hazardous waste in support of Building 67. The building would have secondary containment, 120V emergency power circuitry, Fire Alarm/Low Voltage conduit, cabling and tie-in, single card reader, fire sprinkler piping and sprinkler heads. The building would store chemicals, including acids, bases and solvents. The building would also store for up to 90-days, hazardous waste possibly containing engineered nanomaterials including acids, bases and solvents. All material inside the building would be stored in accordance with California Fire and Building codes. No radioactive materials would be stored in the building.

Purpose and Need:

It has been determined that the hazardous waste chemical storage resources built into the building 67, are insufficient, resulting in both unsafe conditions in the building and loss of usable lab space to waste storage. The potential exists to exceed the fire code limits, which is a violation of the safety basis envelope for the facility. This storage facility would allow both excess hazardous waste chemicals and additional incoming chemicals to be stored safely outside of the building. It would make it much more efficient for EH&S waste technicians to find and remove waste containers.

B. Would the project proceed without Federal funding?

Yes No
☐ ☒

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

II. Description of Affected Environment:

The building would be located adjacent to building 67 loading dock on previously disturbed ground.

III. Preliminary Questions:

- | | Yes | No |
|---|--------------------------|-------------------------------------|
| A. <u>Is the DOE-funded work <i>entirely</i> a “paper study”?</u> | ☐ | ☒ |

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

- | | | |
|--|-------------------------------------|--------------------------|
| B. <u>Would the work to be performed include work that would take place <i>outside</i> existing buildings?</u> | ☒ | ☐ |
|--|-------------------------------------|--------------------------|

And:

- | | | |
|---|-------------------------------------|-------------------------------------|
| 1. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health? | ☐ | ☒ |
| 2. Require the siting, construction or major expansion of waste treatment, storage, or disposal facilities? | ☒ | ☐ |
| 3. Disturb hazardous substances, pollutants, or contaminants preexisting in the environment? | ☐ | ☒ |
| 4. Adversely affect environmentally-sensitive resources identified in Section IV.A.? | ☐ | ☒ |
| 5. Be connected to another existing/proposed activity that could potentially create a cumulatively significant impact? | ☐ | ☒ |
| 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)? | ☐ | ☒ |

If “No” 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: Would 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 | ☐ | ☒ |
| 2. Other Protected Species (e.g., Burros, Migratory Birds) | ☐ | ☒ |
| 3. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) | ☐ | ☒ |
| 4. Archaeological/Historic Resources | ☐ | ☒ |
| 5. Important Farmland | ☐ | ☒ |
| 6. Non-Attainment Areas for Ambient Air Quality Standards LBNL is in Bay Area Air Quality Basin, which is in federal non-attainment for Ozone and | ☐ | ☒ |

state non-attainment for ozone, PM10, and PM2.5. However, operational impacts would be well below significance thresholds and would not be cumulatively considerable contributions, and construction impacts would be sufficiently mitigated by adherence to Bay Area Air Quality Management District construction practices.

- | | | | |
|-----|--|--------------------------|-------------------------------------|
| 7. | Class I Air Quality Control Region | ☐ | ☒ |
| 8. | Special Sources of Groundwater (e.g. Sole Source Aquifer) | ☐ | ☒ |
| 9. | Navigable Air Space | ☐ | ☒ |
| 10. | Coastal Zones | ☐ | ☒ |
| 11. | Areas with Special National Designation (e.g. National Forests, Parks, Trails) | ☐ | ☒ |
| 12. | Floodplains and Wetlands | ☐ | ☒ |

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

- | | Yes | No |
|---|--------------------------|-------------------------------------|
| 13. Natural Resource Damage Assessments | ☐ | ☒ |
| 14. Exotic Organisms | ☐ | ☒ |
| 15. Noxious Weeds | ☐ | ☒ |
| 16. Clearing or Excavation (indicate if greater than one acre) | ☐ | ☒ |
| 17. Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than ten acres) | ☐ | ☒ |

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) | ☐ | ☒ |
| 19. Asbestos Removal | ☐ | ☒ |
| 20. PCB's | ☐ | ☒ |
| 21. Import, Manufacture, or Processing of Toxic Substances | ☐ | ☒ |
| 22. Chemical Storage/Use The building would contain up to 240 gallons of liquids and 250 pounds of solids. DOE/EA 1441 Final Environmental Assessment for the Construction and Operation of The Molecular Foundry and the FONSI address the use of chemicals in building 67. | ☒ | ☐ |
| 23. Pesticide Use | ☐ | ☒ |
| 24. Hazardous, Toxic, or Criteria Pollutant Air Emissions. All containers in the building would be closed except when filling the containers. | ☐ | ☒ |
| 25. Liquid Effluents | ☐ | ☒ |
| 26. Underground Injection | ☐ | ☒ |
| 27. Hazardous Waste and Chemicals The building would contain up to 240 gallons of liquids and 250 pounds of solids. DOE/EA 1441 Final Environmental Assessment for the Construction and Operation of The Molecular Foundry and the FONSI address hazardous waste generated in building 67. | ☒ | ☐ |
| 28. Underground Storage Tanks | ☐ | ☒ |
| 29. Radioactive Mixed Waste | ☐ | ☒ |
| 30. Radioactive Waste | ☐ | ☒ |
| 31. Radiation Exposure | ☐ | ☒ |
| 32. Surface Water Protection. The building would have secondary containment. | ☐ | ☒ |
| 33. Pollution Prevention Act | ☐ | ☒ |
| 34. Ozone Depleting Substances | ☐ | ☒ |

- | | | |
|------------------------------------|--------------------------|-------------------------------------|
| 35. Off-Road Vehicles | ☐ | ☒ |
| 36. Biosafety Level 3-4 Laboratory | ☐ | ☒ |

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

- | | Yes | No |
|---|-------------------------------------|-------------------------------------|
| 37. Potential Violation of Environment, Safety, or Health Regulations/Permits | ☐ | ☒ |
| 38. Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities | ☒ | ☐ |
| 39. Disturbance of Pre-existing Contamination | ☐ | ☒ |
| 40. New or Modified Federal/State Permits | ☐ | ☒ |
| 41. Public Controversy | ☐ | ☒ |
| 42. Environmental Justice | ☐ | ☒ |
| 43. Action/Involvement of Another Federal Agency (e.g. license, funding, approval) | ☐ | ☒ |
| 44. Action of a State Agency in a State with NEPA-type law. The State of California Environmental Quality Review Act does apply | ☒ | ☐ |
| 45. Public Utilities/Services
Minor amounts of water and electricity would be consumed. No adverse impacts to existing services. | ☐ | ☒ |
| 46. Depletion of a Non-Renewable Resource | ☐ | ☒ |
| 47. Extraordinary Circumstances | ☐ | ☒ |
| 48. Connected Actions | ☐ | ☒ |
| 49. Exclusively Bench-top Research | | N/A |
| 50. Only a Laboratory Setting The building would be located within LBNL and would operate under the existing LBNL permits. | ☐ | ☒ |

V. M & O Contract Organization Concurrence:

- A. Organization Official (Name and Title): Jeff Philliber, LBNL Environmental Planner

Signature: _____



Date: 3-23-11

e-mail: jgphilliber@lbl.gov

- B. Optional Concurrence (Name and Title):

Signature: _____

Date: _____

e-mail: _____

Phone: _____

Remainder to be completed by SC

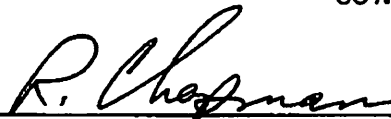
VI. SC Concurrence/Recommendation/Determination:

- A. SC BSO:

Federal Project Director (Name and Title):

Rick Chapman, Project Manager

Signature:



Date: 3/23/11

e-mail: Rick.chapman@bso.science.doe.gov

B. SC 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): B 6.4

Name and Title: Kim Abbott, NEPA Program Manager

Signature:



Signature:

Date: 3/23/11

e-mail: Kim.abbott@bso.science.doe.gov

C. SC ISC Counsel (if necessary):

Name and

Title:

Signature:

Date:

e-mail:

D. SC ISC Field Office 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.

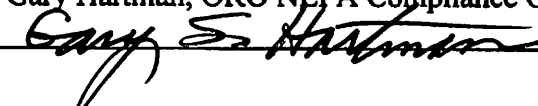


Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.

Comments/Limitations if necessary:

Name and Title: Gary Hartman, ORO NEPA Compliance Officer

Signature:



Date:

3/23/2011

Email: hartmangs@oro.doe.gov