

ENVIRONMENTAL EVALUATION NOTIFICATION FORM

Grantee/Contractor Laboratory: Princeton University/Princeton Plasma Physics Laboratory (PPPL)

Project/Activity Title: PCB & Pipe Insulation Removal in C-Site Motor Generator (MG) Bldg.

CH NEPA Tracking No.: \_\_\_\_\_ Type of Funding \_\_\_\_\_

B&R Code: \_\_\_\_\_ Total Estimated Cost: \$ 25K

DOE Cognizant Secretarial Officer (CSO): \_\_\_\_\_

Contractor Project Manager: n/a Signature: n/a

Date: n/a

Contractor NEPA Reviewer: Jerry D. Levine Signature: 

Date: 10/14/15

I. **Description of Proposed Action:** In support of the Infrastructure Operations Improvement (IOI) project, PCBs from surfaces and PCB-contaminated pipe insulation within the C-Site MG Building would be removed. Clean-up efforts would include spraying surfaces with Simple Green and wiping them down with rags and/or vacuuming surfaces with a high-efficiency particulate air (HEPA) vacuum cleaner. The rags and/or vacuum cleaner bags (approximately 1 cubic yard of waste) would then be disposed of as PCB-contaminated waste at an approved Toxic Substances Control Act (TSCA) waste disposal facility. Pipe insulation (approximately 40 cubic yards) would be cut from the pipes and disposed of as PCB-contaminated waste. There would be no environmental releases to air, water bodies, or soil. Pressure washing would not be employed.

II. **Description of Affected Environment:** C-Site MG Building (see attached maps). No environmentally sensitive resources would be affected.

PPPL is located on Princeton University’s James Forrestal Campus in Plainsboro Township, Middlesex County (central New Jersey), adjacent to the municipalities of Princeton, Kingston, East and West Windsor, and Cranbury, NJ. It occupies approximately 88.5 acres in the areas known as “C- and D-Sites.” PPPL has operated on the current site since 1959. The closest urban centers are New Brunswick, 14 miles (22.5 km) to the northeast, and Trenton, 12 miles (19 km) to the southwest. Within a 50-mile (80 km) radius are the major urban centers of New York City, Philadelphia, and Newark. Princeton University’s main campus is approximately three miles west of the site, primarily located within the borough of Princeton.

The estimated resident population within 10 miles (16 km) of PPPL is approximately 500,000. The total estimated population within a 50-mile radius (80km) of PPPL is approximately 17,735,164.

Surrounding the site are lands of preserved and undisturbed areas including upland forest, wetlands, open grassy areas, and a minor stream, Bee Brook, which flows along PPPL’s eastern boundary. These areas are designated as open space in the James Forrestal Campus (JFC) site development plan.

The climate of central New Jersey is classified as mid-latitude, rainy climate with mild

winters, hot summers, and no dry season. Temperatures may range from below zero to above 100 degrees Fahrenheit (°F) (-17.8° Celsius (C) to 37.8° C); extreme temperatures typically occur once every five years. Approximately half the year, from late April until mid-October, the days are freeze-free. Normally the climate is moderately humid with a total average precipitation of about 46 inches (116 cm) evenly distributed throughout the year.

III. **Potential Environmental Effects:** (Attach explanation for each "yes" response, and "no" responses if additional information is available and could be significant in the decision making process.)

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

	<u>Yes/No</u>
1. Threatened/Endangered Species and/or Critical Habitats	1. No
2. Other Protected Species (e.g. Burros, Migratory Birds)	2. No
3. Wetlands	3. No
4. Archaeological/Historic Resources	4. No
5. Prime, Unique or Important Farmland	5. No
6. Non-Attainment Areas	6. No
7. Class I Air Quality Control Region	7. No
8. Special Sources of Groundwater (e.g. Sole Source Aquifer)	8. No
9. Navigable Air Space	9. No
10. Coastal Zones	10. No
11. Areas w/ Special National Designation (e.g. National Forests, Parks, Trails)	11. No
12. Floodplain	12. No

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

	<u>Yes/No</u>
13. Clearing or Excavation (indicate if greater than 1 acre; if more than 5,000 sq. ft., a Soil Erosion / Sediment Control Permit may be required from Freehold Soil Conservation District.) <i>Note: Soil disturbance includes clearing, grading, excavation, storage, and filling. Soil erosion and sediment control permits required if ≥ 5,000 sq. ft.</i> <i>Note: Excavations expected to encounter ground water may require a permit.</i>	13. No
14. Dredge or Fill (under Clean Water Act section 404; indicate if greater than 1 acre)	14. No
15. Noise (in excess of regulations)	15. No
16. Asbestos Removal	16. No
17. PCBs	17. Yes

*PCB clean-up would entail wiping down surfaces with Simple Green, an environmentally-preferred product, and/or vacuuming surfaces using HEPA vacuum cleaners. Rags and/or vacuum cleaner bags would be disposed of as PCB-contaminated waste. Workers would be required to wear protective clothing, gloves, and safety glasses. N95 dust respirators would be available for voluntary use.*

18. Import, Manufacture or Processing of Toxic Substances	18. No
19. Chemical Storage/Use	19. No
20. Pesticide Use	20. No
21. Hazardous, Toxic, or Criteria Pollutant Air Emissions	21. No
22. Liquid Effluent	22. No
23. Underground Injection	23. No
24. Hazardous Waste	24. Yes
<i>PCB-contaminated waste would be disposed of in accordance with EPA and/or NJDEP regulations.</i>	
25. Underground Storage Tanks	25. No
26. Radioactive (AEA) Mixed Waste	26. No
27. Radioactive Waste	27. No
28. Radiation Exposures	28. No

**C. Other Relevant Disclosures. Will the proposed action involve the following?**

	<u>Yes/No</u>
29. A threatened violation of ES&H regulations/permit requirements	29. No
<i>One or more job hazard analyses (JHAs) would be required for these activities. Oversight of this work by ES&amp;H professionals would be performed as needed.</i>	
30. Siting/Construction/Major Modification of Waste Recovery, or TSD Facilities	30. No
31. Disturbance of Pre-existing Contamination	31. No
<i>Note: Excavations that encounter contaminated ground water require a permit.</i>	
32. New or Modified Federal/State Permits	32. No
33. Public controversy	33. No
34. Action/involvement of Another Federal Agency (e.g. license, funding, approval)	34. Yes
<i>Possible need to request Federal EPA concurrence with PCB clean-up methodology.</i>	
35. Action of a State Agency in a State with NEPA-type law. (Does the State Environmental Quality Review Act Apply?)	35. No
36. Public Utilities/Services	36. No
37. Depletion of a Non-Renewable Resource	37. No

**III. Section D Determination:** Is the project/activity appropriate for a determination under Subpart D of the DOE NEPA Regulations for compliance with NEPA?

Yes.

**DOE-PSO NEPA Compliance Officer (NCO) Review:**

Concurrence with Proposed Class of Action Recommended

**CX**

EA

EIS

**Category B1.17 Polychlorinated Biphenyl Removal**

For Categorical Exclusions (CXs):

A. The proposed action fits within a class of actions that is listed in Appendix A or B to

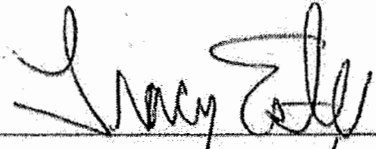
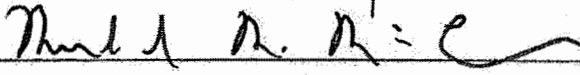
## Subpart D.

For classes of actions listed in Appendix B, the following conditions are integral elements; i.e., to fit within a class, the proposal must not:

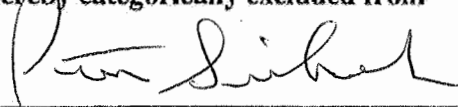
- 1) Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders;
- 2) Require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities;
- 3) Disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; or
- 4) Adversely affect environmentally sensitive resources.

B. There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal; and

C. The proposal is not "connected" to other actions with potentially significant impacts, is not related to other proposed actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

V. DOE Recommendation Approval:PSO Staff: Tracy EstesSignature: Date: 10/22/15SC GLD: Michael M. McCann  
Attorney-AdvisorSignature: Date: 10/22/15VI. NEPA Compliance Officer Subpart D CX Determination and Approval:

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer, I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

PSO NCO: Peter SiebachSignature: Date: 10/22/2015

<b>PPPL</b> PRINCETON PLASMA PHYSICS LABORATORY	<b>PROCEDURE</b>	No. ESH-014 Rev 5 Attachment 4
		Map (Floodplains and Wetlands)



PPPL Site Map – Floodplain and Wetlands Boundaries

**PCB & Pipe Insulation Removal in C-Site Motor Generator Bldg.**

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