



Environmental Review Form for Argonne National Laboratory

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Created By: Murdoch, Colin M.

Creator

Badge: 207696 **Name:** Murdoch, Colin M.
Cost Center: 208 **Division:** PMO
Job Title: Project Manager **Employee Type:** Regular Full-Time Exempt
Building: 214 **Lab Extension:** 2-5829

General Information

Project/Activity Title: Building 361 LINAC Decommissioning
ASO NEPA Tracking No.: 3752 **Type of Funding:**
B & R Code: **Identifying Number:** 01865
SPP Proposal Number: **CRADA Proposal Number:**
Work Project Number: **ANL Accounting Number:** (Item 3a in Field Work Proposal)
Other (explain):
List appropriate NEPA Owners:
Division: PMO NEPA Owner:

Financial Plans

To select a Financial Plan, click the magnifying glass icon to open a search window.

Cost Center: **Project:** **Phase:** **Task:**

Description of Proposed Action

Decommission and removal of IPNS pre-accelerators and 50MeV LINAC. Includes removal of vacuum and cooling systems. Isolation and termination of building utilities for accelerator operations and ancillary operational support components. Building 361 to remain for refurbishment and reuse.

Description of Affected Environment

Work scope is primarily limited to the building interior at Building 361. Minor exterior work may be required to remove legacy abandoned transformers and other equipment from former IPNS operations.

Potential Environmental Effects

- Attach explanation for each "yes" response near bottom of form.
- **See Instructions for Completing Environmental Review Form.**

Section A (Complete For All Projects)		Yes	No	Explanation
1.	Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable	☒	☐	The project would utilize technical basis document Project Management Process for Unrestricted Release of Real and Personal Property, JSTD-137-W-T001 to release material for recycling to extent possible.
2.	Air Pollutant Emissions	☒	☐	Silica dust from selective interior demolition, Class 1 friable TSI abatement, Freon recovery from chiller units. These and other potential air pollutants will follow existing Argonne Work Planning and Controls processes would be implemented to mitigate

				airborne emissions that may result from abatement and demolition activities
3.	Noise	☐	☒	incidental construction and power tool use.
4.	Chemical/Oil Storage/Use	☐	☒	None present
5.	Pesticide Use	☐	☒	Not required
6.	Toxic Substances Control Act (TSCA) Substances			
	6a. Polychlorinated Biphenyls (PCBs)	☒	☐	The project will be performing comprehensive characterization sampling of solid waste throughout the duration as items become accessible to survey/sample for waste characterization to ensure compliance with regulatory requirements. All regulated waste (including low-level and mixed low-level waste) characterization & classification, handling, packaging, transportation, and disposal will follow Argonne LMS process and procedures.
	6b. Asbestos or Asbestos Containing Materials	☒	☐	ACM identified in floor tile/mastic and pipe insulation in building 361. if ACM was identified as suspect contaminated then it would be disposed of as low-level radiological waste following Argonne standard procedures.
	6c. Other TSCA Regulated Substances	☒	☐	The project will be performing comprehensive characterization sampling of solid waste throughout the duration as items become accessible to survey/sample for waste characterization to ensure compliance with regulatory requirements. All regulated waste (including low-level and mixed low-level waste) characterization & classification, handling, packaging, transportation, and disposal will follow Argonne LMS process and procedures.
	6d. Import or Export of Chemical Substances	☐	☒	Not Applicable
7.	Biohazards	☐	☒	None
8.	Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (HSE) at 2-4582 or lynch@anl.gov)	☐	☒	Work will be performed within building
9.	Waste Management			
	9a. Construction or Demolition Waste	☒	☐	Examples include copper wiring, steel, cast iron, and electronics. Scrap steel and other metals for recycling. Other material released as clean demolition debris.
	9b. Hazardous Waste	☒	☐	All regulated waste (including low-level and mixed low-level waste) characterization & classification, handling, packaging, transportation, and disposal will follow Argonne LMS process and procedures. Oil containing equipment, and other identified regulated waste (RCRA, ACM, Universal, etc.) are either non-impacted or are class 3 impacted and sampling data confirm material meets clearance requirements.
	9c. Radioactive Mixed Waste	☒	☐	Based on the characterization report and the initial site assessment the impacted accelerator components that we will be disposing of a radioactive solid waste are steel and lead (shielding). The known mercury contaminated waste is not impacted, or class 3 impacted, and sampling data confirm material meets clearance requirements. All regulated waste characterization & classification, handling, packaging, transportation, and disposal will follow existing Argonne LMS process and procedures.
	9d. Radioactive Waste	☒	☐	items that fail to meet release criteria are classified as radioactive waste. Waste characterization & classification, handling, packaging, transportation, and disposal will follow Argonne LMS process and procedures.
	9e. Asbestos Waste	☒	☐	ACM identified in floor tile/mastic and pipe insulation in building 361. if ACM was identified as suspect contaminated then it would be disposed of as low-level radiological waste following Argonne standard procedures.
	9f. Biological Waste	☐	☒	None
	9g. No Path to Disposal Waste	☐	☒	None
	9h. Nano-material Waste	☐	☒	none
10.	Radiation	☒	☐	Work would be performed in compliance with regulatory requirements for occupational radiation protection as defined in 10 CFR 835, Occupational Radiation Protection. Radiological protection is the means and practices to minimize exposure or potential exposure to radiological hazards
	Threatened Violation of ES&H			

11.	Regulations or Permit Requirement	☐	☒	Not applicable
12.	New or Modified Federal or State Permits	☐	☒	decommissioning of legacy accelerator
13.	Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste	☐	☒	Not required
14.	Public Controversy	☐	☒	decommissioning of legacy accelerator
15.	Historic Structures and Objects	☐	☒	Removal of accelerator equipment and materials will result in no adverse effect to historic property.
16.	Disturbance of Pre-existing Contamination	☒	☐	Decommissioning work on areas or systems with known fixed contamination or potential internal contamination has the possibility for generating radioactive contamination. The radiological protection program requires appropriate contamination control to prevent inadvertent transfer of contamination
17.	Energy Efficiency, Resource Conserving, and Sustainable Design Features	☐	☒	Not applicable
Section B (For Projects that Occur Outdoors)		Yes	No	
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species	☐	☒	Decommissioning of existing accelerator equipment and systems.
19.	Wetlands	☐	☒	Decommissioning of existing accelerator equipment and systems
20.	Floodplain	☐	☒	Decommissioning of existing accelerator equipment and systems
21.	Landscaping	☐	☒	Decommissioning of existing accelerator equipment and systems
22.	Navigable Air Space	☐	☒	Decommissioning of existing accelerator equipment and systems
23.	Clearing or Excavation	☐	☒	not applicable
24.	Archaeological Resources	☐	☒	not applicable
25.	Underground Injection	☐	☒	not applicable
26.	Underground Storage Tanks	☐	☒	not applicable
27.	Public Utilities or Services	☐	☒	Only on-site utilities and services will be disconnected
28.	Depletion of a Non-Renewable Resource	☐	☒	not applicable
Section C (For Projects Outside of ANL)		Yes	No	
29.	Prime, Unique, or Locally Important Farmland	☐	☒	not applicable
30.	Special Sources of Groundwater (such as sole source aquifer)	☐	☒	not applicable
31.	Coastal Zones	☐	☒	not applicable
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	☐	☒	not applicable
33.	Action of a State Agency in a State with NEPA-type Law	☐	☒	not applicable
34.	Class I Air Quality Control Region	☐	☒	not applicable

Categorical Exclusion

- ☐ My approval is the final approval necessary
- ☒ This form requires additional approval from DOE

To be Completed by DOE/ASO

Section D	Yes	No
Are there any extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?	☐	☒
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	☐	☒
If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211?	☐	☐
Can the project or activity be categorically excluded from preparation of an Environment Assessment or Environmental Impact Statement under Subpart D of the DOE NEPA Regulations?	☒	☐
If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded: This project may be excluded under the following class of action from 10 CFR 1021 Subpart D Appendix B: B 1.23 Demolition and disposal of buildings		
If no, indicate the NEPA recommendation and class(es) of action from Appendix C or D to Subpart D to Part 1021 of 10 CFR.		

Attachments

File Description:

Comments

Add Approver

Approver Name	Approver Badge	Reason	Delete
Andersen, Karyn Elizabeth Schoch	303448	NEPA Owner	

Notifications

The approval notification email will be copied to the people listed below.

Badge	Name	Division	Delete

ASO-CX Number

ASO-CX- 401

Comments:

None

Approval

Approver	Action	Date Routed	Action Date	Approval Reason / Comments	Approval Type
Murdoch, Colin M.	APPROVED	2023-04-11	2023-04-11 07:52:27.0	Creator :	PRIMARY
Murdoch, Colin M.	APPROVED	2023-04-11	2023-04-11 07:52:27.0	Project Manager :	PRIMARY
Andersen, Karyn Elizabeth Schoch	APPROVED	2023-04-11	2023-04-11 08:38:51.0	NEPA Owner :	PRIMARY
Andersen, Karyn Elizabeth Schoch	APPROVED	2023-04-11	2023-04-11 08:38:51.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2023-04-11	2023-04-14 16:27:45.0	ANL NEPA Reviewer : DOE-ASO Comments	PRIMARY

				incorporated and re-submitting for approval	
Hellman, Karen Sue	APPROVED	2023-04-14	2023-04-17 17:15:20.0	ANL-985 Review and Approval :	PRIMARY
Dunn, Michael W.	APPROVED	2023-04-17	2023-04-18 15:10:45.0	ANL-985 ANL Deputy COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2023-04-18	2023-04-24 12:50:51.0	ANL-985 DOE-ASO Review and Approval : This DOE approval for CX is tracked as ASO-CX-401.	PRIMARY
Siebach, Peter Rudolf	APPROVED	2023-04-24	2023-04-24 14:04:52.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY
