

Environmental Review Form for Argonne National Laboratory

Form: **ANL-985**

Version: 5

Your Form ID: ANL-985-1784 Form Status: Approved

Date: 7/20/2022 12:56:14 PM

Created By: Murdoch, Colin M.

Creator

Badge: 207696 Name: Murdoch, Colin M.

Cost Center: 208 Division: **PMO**

Job Title: **Project Manager Regular Full-Time Exempt** Employee Type:

Lab Extension: Building: 214 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
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	© Unrestricted Release of Real and		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	•	0	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

Argonne Work Planning and Controls processes would be implemented to mitigate

3. Noise		0	\odot	incidental construction and power tool use.		
Che	emical/Oil Storage/Use	О	•	None present		
=		О	⊙	Not required		
				·		
6a. Polychlorinated Biphenyls (PCBs)		•	C	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	•	0	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	•	c	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 of classification, handling, packaging, transportation, and disposal will follow Argonna LMS process and procedures.		
6d.	Import or Export of Chemical Substances	0	•	Not Applicable		
Biol	nazards	\circ	⊙	None		
8. Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (HSE) at 2-4582 or lynch@anl.gov)		0	•	Work will be performed within building		
Wa	ste Management					
9a.	Construction or Demolition Waste	⊙	О	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		•	0	All regulated waste (including low-level and mixed low-level waste) characterization classification, handling, packaging, transportation, and disposal will follow Argonn LMS process and procedures. Oil containing equipment, and other identified regulated waste (RCRA, ACM, Universal, etc.) are either non-impacted or are classimpacted and sampling data confirm material meets clearance requirements.		
9c.	Radioactive Mixed Waste	0	C	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 procedures.		
9d.	Radioactive Waste	•	0	items that fail to meet release criteria are classified as radioactive waste. Waste characterization & classification, handling, packaging, transportation, and disposa will follow Argonne LMS process and procedures.		
9e.	Asbestos Waste	•	0	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	0	\odot	None		
		О	•	None		
9h.	Nano-material Waste	О	\odot	none		
10. Radiation		•	0	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 potential exposure to radiological hazards		
	Che Pes Tox Act Ga. Gb. Gc. Gb. Gc. Gb. Gb. Gb. Gb. Gb. Gb. Gb. Gb. Gb. Gb	Chemical/Oil Storage/Use Pesticide Use Toxic Substances Control Act (TSCA) Substances 6a. Polychlorinated Biphenyls (PCBs) 6b. Asbestos or Asbestos Containing Materials 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances Biohazards Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (HSE) at 2-4582 or lynch@anl.gov) Waste Management 9a. Construction or Demolition Waste 9b. Hazardous Waste 9c. Radioactive Mixed Waste 9d. Radioactive Waste 9f. Biological Waste 9g. No Path to Disposal Waste 9h. Nano-material Waste	Chemical/Oil Storage/Use Pesticide Use Toxic Substances Control Act (TSCA) Substances 6a. Polychlorinated Biphenyls (PCBs) 6b. Asbestos or Asbestos Containing Materials 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances 6d. Polychlorinated Biphenyls (PCBs) 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances 6d. Polychlorinated Biphenyls (PCBs) 6d. Containing Materials 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances 6d. Construction or Chemical Substances 6d. Polychlorinated Biphenyls (PCBs) 6d. Containing Materials 6c. Containing Materials 6c. Construction or Chemical Substances 6d. Polychlorinated Biphenyls (PCBs) 6d. Polychlorinated Biphenyls (PCBs) 6d. Polychlorinated Biphenyls (PCBs) 6d. PCBs) 6d. Polychlorinated Biphenyls (PCBs) 6d. PCBs) 6d. Polychlorinated Biphenyls (PCBs) 6d. PCBs) 6d. Polychlorinated Biphenyls (PCBs) 6d. Polychlorinated Biphenyls	Chemical/Oil Storage/Use Pesticide Use Toxic Substances Control Act (TSCA) Substances 6a. Polychlorinated Biphenyls (PCBs) 6b. Asbestos or Asbestos Containing Materials 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances 6d. Polychlorinated Biphenyls (PCBs) 6c. Other TSCA Regulated Substances 6d. Import or Export of Chemical Substances 6d. I		

11.	Regulations or Permit Requirement	0	•	Not applicable	
12.	New or Modified Federal or State Permits	0	•	decommissioning of legacy accelerator	
13.	Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste	0	•	Not required	
14.	Public Controversy	0	⊙	decommissioning of legacy accelerator	
15.	Historic Structures and Objects	0	•	Removal of accelerator equipment and materials will result in no adverse effect to historic property.	
16.	Disturbance of Pre-existing Contamination	•	О	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	О	•	Not applicable	
S	Section B (For Projects that Occur Outdoors)	Yes	No		
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species	0	•	Decommissioning of existing accelerator equipment and systems.	
19.	Wetlands	О	\odot	Decommissioning of existing accelerator equipment and systems	
20.	Floodplain	0	\odot	Decommissioning of existing accelerator equipment and systems	
21.	Landscaping	0	\odot	Decommissioning of existing accelerator equipment and systems	
22.	Navigable Air Space	0	\odot	Decommissioning of existing accelerator equipment and systems	
23.	Clearing or Excavation	0	\odot	not applicable	
24.	Archaeological Resources	0	\odot	not applicable	
25.	Underground Injection	0	\odot	not applicable	
26.	Underground Storage Tanks	0	\odot	not applicable	
27.	Public Utilities or Services	О	\odot	Only on-site utilities and services will be disconnected	
28.	Depletion of a Non-Renewable Resource	0	\odot	not applicable	
Se	ction C (For Projects Outside of ANL)	Yes	No		
29.	Prime, Unique, or Locally Important Farmland	О	•	not applicable	
30.	Special Sources of Groundwater (such as sole source aquifer)	0	⊙	not applicable	
31.	Coastal Zones	0	⊙	not applicable	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	0	•	not applicable	
33.	Action of a State Agency in a State with NEPA-type Law	0	\odot	not applicable	
34.	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?	O	•
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	c	•
If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211?	0	0
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?	•	0

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

<u>Approver</u>	<u>Action</u>	Date Routed	Action Date	Approval Reason / Comments	<u>Approval</u> <u>Type</u>
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