

Project/Activity Title: B203 2MeV Decommissioning Project									
ASO NEPA Tracking No.: 2544	Type of Funding: Laboratory								
B & R Code:	Identifying Number: 01635								
SPP Proposal Number:	CRADA Proposal Number:								
Work Project Number: wp03313	ANL Accounting Number:	(Item 3a in Field Work Proposal)							
Other (explain):									
List appropriate NEPA Owners:									
Division: FMS NEPA Owner:									

Cost Code

Task: 03313K1 Center: 208 Project: CSI Activity: 03313-K1-208

Description of Proposed Action

The scope of work is the removal of the 2 MeV Van De Graff Accelerator equipment from where it is installed in Building 203, P Wing, and disposition the equipment as appropriate and allowed. The equipment is no longer operating (out of service in 2013), and is not a permanent part or structure of Building 203 proper. The equipment removal includes the accelerator, beam line components, vacuum pumps, motors, an associated gas supply tank and wiring and conduit that supplied the power for the operations. It is not anticipated that there will be need for demolition of any portion of the structure as part of this dismantlement operation.

Description of Affected Environment

Building 203 P Wing interior

Potential Environmental Effects

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

S	Section A (Complete For All Projects)		No	Explanation
1.	Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided	o	c	Where possible metals will be recycled if they meet the free release criteria consistent with the Argonne Site Sustainability Plan.

	7, 8	ler items 2, 4, 6, 8, 16, and 20 ow, as applicable			
2. Air Pollutant Emissions		©	c	As described in the decommissioning play all Sulfur Hexafluoride was removed from the system in 2013 and backfilled to 2 Psi with Nitrogen, thus this hazard has been removed from the system. Asbestos may in the wiring or insulation of the equipment. Asbestos will be remediated by following the Laboratory procedures within the areas that are currently occupied (P Wing) by the accelerator and associated equipment, in accordance with the US and Illinois EPA requirements using trained and licensed personnel and controls for air release being HEPA filter systems. The Argonne SME for NESHAP reporting will be available if there are any discoveries of asbestos beyond that expected and planned for, and work will be paused to ensure that proper notifications and controls are in place prior to proceeding.	
3.	Noi	se	0	\odot	
4.		emical/Oil rage/Use	Θ	o	There are no plans to incorporate any materials that are not already present, and the only material that is possibly present is sulfur hexafluoride.
5.	Pes	sticide Use	С	\odot	
6.	Cor	kic Substances htrol Act (TSCA) ostances			
	6a.	Polychlorinated Biphenyls (PCBs)	۲	c	While it is not expected that PCB's will be present, because of the age of the equipment (1963) it is possible to encounter an electrical component that contains PCB's. If encountered PCB containing wastes will be isolated, collected and controlled through the disposal process in accordance with the Laboratory waste management processes for TSCA regulated PCB waste.
	6b.	Asbestos or Asbestos Containing Materials	©	c	Asbestos will be removed or disturbed during this project. It will be done in accordance with the controls if the IEPA permit and notification and using the Argonne procedures and controls established by the NWM division conducted by licensed staff under the observation of the Argonne Industrial Hygiene group. Work will utilize supplemental HEPA air filtration systems along with containment systems. In all cases these supplemental systems will remain in place until full clearances are given for each area consistent with the applicable regulations and guidelines. Notifications to the Illinois Environmental Protection Agency for start of asbestos work will be done consistent with the current Argonne procedures in consultation with Bob Utesch and the HEW Division Industrial Hygiene support team.
	6c.	Other TSCA Regulated Substances	0	o	
	6d.	Import or Export of Chemical Substances	c	o	
7.	Biol	hazards	С	\odot	
8.	(If y #12 Pete (FN	uent/Wastewater res, see question er and contact er Lynch IS-SEP) at 2-4582 ynch@anl.gov)	0	©	
9.	Wa	ste Management			
	9a.	Construction or Demolition Waste	۲	c	The waste is dismantlement waste, but could be seen as demolition waste if there is a need to remove a shield block or two in order to allow removal of the beam transport and vacuum lines. Materials that are removed will be evaluated for recycling and directed accordingly to th waste streams as appropriate to minimize landfill or non reuse of materials.
	9b.	Hazardous Waste	c	o	
	9c.	Radioactive Mixed Waste	©	0	This is not anticipated due to the lower energy of the equipment, however without full knowledge of past use it is possible to encounter an activated metallic component that may fa a TCLP test for certain materials such as lead. Any material that is encountered that may meet this definition will be handled through the Argonne waste management processes to identify the handling, packaging and disposition in accordance with the RCRA and radioactive materials restrictions.
					These wastes will be generated within the building, and will be prepared to minimize the

	9d. Radioactive Waste		۰	c	chance for release when systems are removed from service and dismantled. This will be accomplished by decontamination, dismantlement by tools rather than cutting, and fixing contamination in place where possible to reduce the potential for an environmental release during transit from installed locations to packaging locations. Size reduction will be accomplished whenever possible to lessen the number of shipments needed, thus reducing the potential risk to the public and the environment. Characterization will be done to determine if the waste is LLW with disposition pathways identified at DOE or commercial sites as appropriate to ensure that the waste meets all applicable waste acceptance criteria.
	9e.	Asbestos Waste	۰	0	These tasks will be accomplished in accordance with the IEPA notification to the state and permits, by licensed staff and supervisors, using locally erected engineering controls to reduce the potential for spread and release of a NESHAP material into the environment. These activities will be monitored by the Argonne Industrial Hygiene group both for personnel exposure and controls, but also environmental and free release monitoring.
	9f.	Biological Waste	С	\odot	
	9g.	No Path to Disposal Waste	\circ	$oldsymbol{\circ}$	
	9h.	Nano-material Waste	\circ	\odot	
10.	Rac	diation	$oldsymbol{\circ}$	o	The work will be done in accordance with the Argonne Health Physics Program compliant with 10 CFR 835, and following Argonne controls.
11.	of E or F	eatened Violation S&H Regulations Permit quirement	0	o	
12.	Fed	w or Modified leral or State mits	0	٥	
13. Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or		Aajor Modification acility to Recover,	0	۲	
14.	Pub	olic Controversy	С	\odot	
15.	15. Historic Structures and Objects		©	c	The project was reviewed by the Argonne Cultural Resources Management who determined there was no culturally or historical significance. Report is attached.
16. Pre-existing Contamination		-existing	0	٥	
17.	17. Conserving, and Sustainable Design Features		c	٠	
		n B (For Projects Occur Outdoors)	Yes	No	
18.	Enc Crit and	eatened or Jangered Species, ical Habitats, I/or other tected Species	o	©	
19.	We	tlands	0	\odot	
20.). Floodplain		0	\odot	
21.	Lan	dscaping	0	\odot	
22.	Nav	igable Air Space	0	\odot	
23. Clearing or Excavation		0	$oldsymbol{eta}$		
24.		haeological sources	\circ	$oldsymbol{\circ}$	

25.	Underground Injection	0	Θ	
26.	Underground Storage Tanks	\circ	ullet	
27.	Public Utilities or Services	\circ	o	
28.	Depletion of a Non-Renewable Resource	0	o	
Se	ction C (For Projects Outside of ANL)	Yes	No	
29.	Prime, Unique, or Locally Important Farmland	0	o	
30.	Special Sources of Groundwater (such as sole source aquifer)	c	o	
31.	Coastal Zones	С	\odot	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	c	o	
33.	Action of a State Agency in a State with NEPA-type Law	c	o	
34.	Class I Air Quality Control Region	c	\odot	

Categorical Exclusion

Other (Use field below to enter other categorical exclusion) A project specific CX is required from DOE ASO for this proposed action.

ANL NEPA Reviewer Use Only

- O 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	۲
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	o	©
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?	۲	0
If you indicate the class or classes of action from Appendix A or P of Subport D under which the proje		dodu

If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded: DOE approves this ERF under the following categories of 10 CFR, Part 1021, Subpart D, Appendix B: B 1.23 Demolition and disposal of buildings B 1.16 Asbestos removal B 1.17 Polychlorinated biphenyl removal B 1.27 Disconnection of utilities

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: decomissioning plan

Comments

Add Approver

Approver Name	Approver Badge	Reason	Delete
Murdoch, Colin M.	207696	project manager	
Rock, Cynthia M.	48996	program manager	

Notifications

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

Badge	Name	Division	Delete	
207696	Murdoch, Colin M.	FMS		

ASO-CX Number

ASO-CX- 341

Comments:

DOE ASO and DOE Chicago track this ERF approval as ASO-CX-341.

Approval

Approver	<u>Action</u>	Date Routed	Action Date	Approval Reason / Comments	<u>Approval</u> <u>Type</u>
McGhee, Jeffery	APPROVED	2017-03-15	2017-03-15 09:11:44.0	Creator :	PRIMARY
McGhee, Jeffery	APPROVED	2017-03-15	2017-03-15 09:11:44.0	Allows access to the form :	PRIMARY
McGhee, Jeffery	APPROVED	2017-03-15	2017-03-15 09:11:44.0	Project Manager :	PRIMARY
Rock, Cynthia M.	APPROVED	2017-03-15	2017-03-15 10:24:27.0	program manager :	PRIMARY
Murdoch, Colin M.	APPROVED	2017-03-15	2017-03-15 10:08:29.0	project manager :	PRIMARY
Matton, Philip B.	APPROVED	2017-03-15	2017-03-22 15:19:52.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2017-03-22	2017-03-24 09:44:02.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2017-03-24	2017-03-27 14:48:50.0	ANL-985 Review and Approval :	PRIMARY
Stine, Gail Y.	APPROVED	2017-03-27	2017-03-27 14:57:45.0	ANL-985 Review and Approval :	PRIMARY
Lee, Alice J. for Kearns, Paul K.	APPROVED	2017-03-27	2017-03-27 15:31:37.0	ANL-985 ANL COO Review and Approval :	DELEGATE
Joshi, Kaushik N.	APPROVED	2017-03-27	2017-03-30 14:46:56.0	ANL-985 DOE-ASO Review and Approval : ASO-CX-341	PRIMARY
Siebach, Peter R.	APPROVED	2017-03-30	2017-04-03 16:12:36.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY