



Environmental Review Form for Argonne National Laboratory

Form:	ANL-985
Version:	5
Your Form ID:	ANL-985-1836
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Date:	12/12/2022 11:36:23 AM
Created By:	Silvestri, Dana Elizabeth

Creator

Badge:	291883	Name:	Kowalkowski, Aneta Renata
Cost Center:	208	Division:	PMO
Job Title:	Project Manager - Infrastructure	Employee Type:	Regular Full-Time Exempt
Building:	214	Lab Extension:	2-8473

General Information

Project/Activity Title: TCS Building 240 Facility Enhancements
ASO NEPA Tracking No.: Type of Funding:
B & R Code: Identifying Number: ANL-985-1836
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: CLS NEPA Owner:
Division: 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

The Theory and Computing Sciences (TCS) Building 240 supports advanced high performance computing and visualization for the DOE mission and houses the Argonne Leadership Computing Facility (ALCF). DOE announced the LCF will host the exascale supercomputer "Aurora." Design and construction of an additional support building and supporting mechanical equipment to increase chilling capacity to the B240 southern expansion space is needed to accommodate current and future growth in anticipated computing power and cooling needs. The proposed modifications would accommodate a cooling capacity deficit with the installation of additional water-cooled chillers in the west mechanical room and two cooling towers. The west mechanical room footprint would be expanded to accommodate the equipment. Underground piping will be installed from the ANL/TCS property line on the west to the mechanical room. Existing equipment will be relocated to accommodate the expansion. Possible installation of new switchgear inside the TCS electrical room. This ERF is an addition to and does not replace previous approved NEPA documentation: ASO-CX-194, 11/4/2004 and amended 09/2007; ANL-985-457 10/2014, and, ASO-CX-336 ALCF-3 Upgrade/TCS Facility Enhancements-Other Support Facility (OSF) 12/14/2016.

Description of Affected Environment

The expansion size will be approximately 17,000 to 20,000 sq/ft on the west side of the existing TCS building. Typical construction activities will disturb previously laid concrete area in near vicinity including pavement removal and structural construction.

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)			Explanation
	Yes	No	

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	<input checked="" type="radio"/>	<input type="radio"/>	Measures to reduce waste and pollution would be evaluated as an ongoing process throughout construction.
2.	Air Pollutant Emissions	<input checked="" type="radio"/>	<input type="radio"/>	Minor emissions from cars and construction equipment would occur during construction. Equipment at jobsite would be running during typical daily working hours.
3.	Noise	<input checked="" type="radio"/>	<input type="radio"/>	General construction noises are expected. Standard operation of construction equipment would not impact the activities of adjacent buildings.
4.	Chemical/Oil Storage/Use	<input type="radio"/>	<input checked="" type="radio"/>	No significant chemical and oil storage is expected. Typical construction chemicals such as adhesives and gasoline would be used. The material would be stored in proper containers and protected from spillage. SDS would be available for chemicals on the construction site. This cooling system would be a closed-loop.
5.	Pesticide Use	<input type="radio"/>	<input checked="" type="radio"/>	
6.	Toxic Substances Control Act (TSCA) Substances			
6a.	Polychlorinated Biphenyls (PCBs)	<input type="radio"/>	<input checked="" type="radio"/>	
6b.	Asbestos or Asbestos Containing Materials	<input type="radio"/>	<input checked="" type="radio"/>	
6c.	Other TSCA Regulated Substances	<input type="radio"/>	<input checked="" type="radio"/>	
6d.	Import or Export of Chemical Substances	<input type="radio"/>	<input checked="" type="radio"/>	
7.	Biohazards	<input type="radio"/>	<input checked="" type="radio"/>	
8.	Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (HSE) at 2-4582 or lynch@anl.gov)	<input checked="" type="radio"/>	<input type="radio"/>	Any storm water discharges during construction would be filtered prior to discharge using different stormwater runoff controls. These activities, including inspections, frequency, and qualifications of stormwater inspectors in accordance with IEPA would be documented in more detail with a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP would be monitored by the project, included in the project design, and implemented by the construction contractor. Any storm sewer inlets and outfalls near the project would be protected.
9.	Waste Management			
9a.	Construction or Demolition Waste	<input checked="" type="radio"/>	<input type="radio"/>	Demolition waste would consist of construction materials, landscape and organics, and demolished equipment. The project would work on establishing trash collection areas where the debris can be sorted, and recyclables placed in appropriate containers. All material would be either recycled as scrap or disposed of as solid waste in an industrial subtitle D landfill. Excavated materials such as gravel, asphalt, concrete, would be recycled off site by the construction contractor.
9b.	Hazardous Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9c.	Radioactive Mixed Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9d.	Radioactive Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9e.	Asbestos Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9f.	Biological Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9g.	No Path to Disposal Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9h.	Nano-material Waste	<input type="radio"/>	<input checked="" type="radio"/>	
10.	Radiation	<input type="radio"/>	<input checked="" type="radio"/>	
11.	Threatened Violation of ES&H Regulations or Permit Requirement	<input type="radio"/>	<input checked="" type="radio"/>	
12.	New or Modified Federal or State Permits	<input checked="" type="radio"/>	<input type="radio"/>	The project would obtain a SWPPP permit from the state of Illinois. The project would obtain any other required permits if needed as determined by design development. This includes but not limited to: IEPA, DuPage County permits, USFWS permits, and

				permits with the Army Corps. Of Engineers.
13.	Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste	<input type="radio"/>	<input checked="" type="radio"/>	
14.	Public Controversy	<input type="radio"/>	<input checked="" type="radio"/>	
15.	Historic Structures and Objects	<input type="radio"/>	<input checked="" type="radio"/>	Project does not impact the 200 historic district.
16.	Disturbance of Pre-existing Contamination	<input type="radio"/>	<input checked="" type="radio"/>	
17.	Energy Efficiency, Resource Conserving, and Sustainable Design Features	<input type="radio"/>	<input checked="" type="radio"/>	
Section B (For Projects that Occur Outdoors)		Yes	No	
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species	<input type="radio"/>	<input checked="" type="radio"/>	The project schedule will accommodate the offsite hibernation period for the Northern Long-eared bat (November 1st - March 31st) all tree removal will take place during these dates, while the bats are hibernating offsite. Adverse impacts to other resources are unlikely.
19.	Wetlands	<input type="radio"/>	<input checked="" type="radio"/>	Project does not anticipate construction within the wetland areas, all construction will take place outside the 50ft buffer zone.
20.	Floodplain	<input type="radio"/>	<input checked="" type="radio"/>	
21.	Landscaping	<input checked="" type="radio"/>	<input type="radio"/>	The project expects to have minimal impact in the disruption of the landscape. Project would install landscape screening of the OSF and site grass restoration after construction.
22.	Navigable Air Space	<input type="radio"/>	<input checked="" type="radio"/>	
23.	Clearing or Excavation	<input checked="" type="radio"/>	<input type="radio"/>	Minor pavement removal to construct concrete pads. trenching with soil backfill.
24.	Archaeological Resources	<input type="radio"/>	<input checked="" type="radio"/>	The project scope would take place in previously disturbed areas of the TCS site and does not impact the historic 200 district.
25.	Underground Injection	<input type="radio"/>	<input checked="" type="radio"/>	
26.	Underground Storage Tanks	<input type="radio"/>	<input checked="" type="radio"/>	
27.	Public Utilities or Services	<input checked="" type="radio"/>	<input type="radio"/>	There would be no increase to utility needs.
28.	Depletion of a Non-Renewable Resource	<input type="radio"/>	<input checked="" type="radio"/>	
Section C (For Projects Outside of ANL)		Yes	No	
29.	Prime, Unique, or Locally Important Farmland	<input type="radio"/>	<input checked="" type="radio"/>	
30.	Special Sources of Groundwater (such as sole source aquifer)	<input type="radio"/>	<input checked="" type="radio"/>	
31.	Coastal Zones	<input type="radio"/>	<input checked="" type="radio"/>	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	<input type="radio"/>	<input checked="" type="radio"/>	
33.	Action of a State Agency in a State with NEPA-type Law	<input type="radio"/>	<input checked="" type="radio"/>	
34.	Class I Air Quality Control Region	<input type="radio"/>	<input checked="" type="radio"/>	

Categorical Exclusion

ANL NEPA Reviewer Use Only

My approval is the final approval necessary

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?	<input type="radio"/>	<input checked="" type="radio"/>
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	<input type="radio"/>	<input checked="" type="radio"/>
If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211?	<input type="radio"/>	<input type="radio"/>
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?	<input checked="" type="radio"/>	<input type="radio"/>
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 classes of action from Appendix B, 10 CFR Part 1021, Subpart D: B 1.31 Installation or relocation of machinery and equipment, and B 1.15 Support 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: SWPPP [View Attachment](#)

File Description: Footprint [View Attachment](#)

Comments

Add Approver

Approver Name	Approver Badge	Reason	Delete

Notifications

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

Badge	Name	Division	Delete
46304	Lynch, Peter L.	WSE	
52452	Hodge, Devin S.	CLS	

ASO-CX Number

ASO-CX- 400

Comments:

This DOE approval for NEPA ERF Categorical Exclusion (CX) is tracked as ASO-CX-400.

Approval

Approver	Action	Date Routed	Action Date	Approval Reason / Comments	Approval Type
Silvestri, Dana Elizabeth	APPROVED	2023-01-20	2023-01-20 14:55:33.0	Creator :	PRIMARY
Silvestri, Dana Elizabeth	APPROVED	2023-01-20	2023-01-20 14:55:33.0	Allows access to the form :	PRIMARY
Kowalkowski, Aneta Renata	APPROVED	2023-01-20	2023-01-20 16:04:40.0	Project Manager :	PRIMARY
Wozny, Bryan M.	APPROVED	2023-01-20	2023-01-23 08:52:15.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY

ANL-985-1836 updated from 1/19/23 meeting with ASO to discuss their comments on the draft NEPA. All comments were addressed and incorporated into document. Added ASO approvals before Jill Ptak as site NEPA Owner instead of after due to her absence. Did not include approvals again for Mike Dunn and Karen Hellman since they approved previous draft and these updates only included additional clarifications, per ASO. If they need to be on the approval chain still, Jill Ptak can add when she is reviewing/approving. This approval is a RUSH.

Joshi, Kaushik N. for Siebach, Peter Rudolf	APPROVED	2023-01-23	2023-01-23 11:40:16.0	Added: : This DOE approval for NEPA ERF Categorical Exclusion (CX) is tracked as ASO-CX-400.	DELEGATE
Joshi, Kaushik N.	APPROVED	2023-01-23	2023-01-23 11:42:05.0	Added: : This CX will be posted on DOE Science website as ASO-CX-400.	PRIMARY
Ptak, Jill S.	APPROVED	2023-01-23	2023-01-24 12:49:48.0	ANL NEPA Reviewer : DOE comments incorporated and NCO approved	PRIMARY
