



Environmental Review Form for Argonne National Laboratory

Form:	ANL-985
Version:	5
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Created By:	Harris, Shana E

Creator

Badge:	311196	Name:	Harris, Shana E
Cost Center:	256	Division:	WSE
Job Title:	ESH Multi-Functional 3	Employee Type:	Regular Full-Time Exempt
Building:	203	Lab Extension:	2-5482

General Information

Project/Activity Third ARM Mobile Facility (AMF3) Installation and Operation of Supplemental Sites
Title: (Summerford, Sudduth, Courtland)

ASO NEPA Tracking No.:	Type of Funding:	
B & R Code:	Identifying Number: ANL-985-1999	
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: EVS 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

This ERF covers activities associated with the installation and operation of the third Atmospheric Radiation Measurement (ARM) user facility, third mobile facility (AMF3). ARM is a multi-laboratory U.S. Department of Energy (DOE) scientific user facility under the DOE Office of Science Biological and Environmental Research program. The ARM user facility provides the climate research community with strategically located in-situ and remote-sensing observatories designed to improve the understanding and representation of clouds and aerosols as well as their interactions and coupling with the Earth surface in climate and earth system models. This phase of the AMF3 Project would encompass 3 supplemental sites: Summerford, Sudduth and Courtland. The 3 supplemental sites would be installed in an area approximately 20 - 30+ miles from the AMF3 main site at the Black Warrior Work Center, located at the Bankhead National Forest in Alabama. Supplemental site land acquisition would be completed and approved to conduct atmospheric research. The supplemental sites would have site improvements that would consist of installation and/or connection of underground power and fiber, concrete pads, cement piers dug to an approximate depth of 5 feet, instrumentation towers, and modified shipping containers installed for instrumentation during construction of the sites. The supplemental sites would have various pieces of scientific equipment for atmospheric science and be surrounded by an enclosure. The supplemental sites may also include camera security systems, and surrounding gravel surfaces. Operation of the supplemental sites would be remote to collect atmospheric data and consist of periodic maintenance checks of equipment and grounds. The supplemental sites would have an operational period of 5-8 years. At the conclusion of the project, Argonne National Laboratory would return the land to the landowners expectation. This may include removal of all cement platforms and removal of all underground electrical cables and remediation of the land as requested by landowner. All scientific instrumentation and supportive structures at the supplemental sites would also be removed at project completion.

Description of Affected Environment

AMF3 supplemental sites would be located in Winston (Sudduth S40), Morgan (Summerford S30) and Lawrence (Courtland S20) Counties, Alabama. Each supplemental site location would be approximately 1-acre overall, with an actual instrumentation footprint

of approximately 9,600 square feet. Land is in existing rural, agricultural use in private ownership, with adjacent forested areas. A map of the supplemental sites is attached.

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	<input checked="" type="radio"/>	<input type="radio"/>	See individual explanations below. The proposed action would be evaluated before implementation to identify options to reduce or eliminate generation of waste materials
2.	Air Pollutant Emissions	<input checked="" type="radio"/>	<input type="radio"/>	Minor emissions from cars and light duty vehicles during construction.
3.	Noise	<input checked="" type="radio"/>	<input type="radio"/>	Noise from typical construction and installation activities would occur. Work would refer to DOE 10 C.F.R. 851 Worker Safety and Health Program and utilize personal protection equipment as needed. Normal operations may create noise within the allowable noise range of 85 decibels and not require hearing protection equipment.
4.	Chemical/Oil Storage/Use	<input checked="" type="radio"/>	<input type="radio"/>	Chemicals used at the supplemental sites would be governed by the requirements of the AMF3 main site at the Black Warrior Work Center, located at the Bankhead National Forest. Chemical use during the construction and installation process would be governed under ES&H documentation and follow appropriate EPA requirements.
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 type="radio"/>	<input checked="" type="radio"/>	
9.	Waste Management			
9a.	Construction or Demolition Waste	<input checked="" type="radio"/>	<input type="radio"/>	Construction debris may be generated from these actions. All debris would be collected and placed in appropriate collection systems for recycling where appropriate. Wastes generated would be characterized to determine if they meet the Clean Construction or Demolition Debris(CCDD) criteria for Alabama. If waste does not meet CCDD requirements, collected waste would be disposed of in accordance with EPA -RCRA or other applicable authorities.
				Supplemental sites would generate minor amounts of hazardous waste on an inconsistent

	9b.	Hazardous Waste	<input type="radio"/>	<input checked="" type="radio"/>	basis and follow the governance of the Main ARM AMF3 Site for hazardous waste management under a Very Small Quantity Generator (VSQG) as defined in 40 CFR Part 262.13 and 262.14 of the Code of Federal Regulations (CFR). The EPA specifies that Very Small Quantity Generators (VSQGs) generate 100 kilograms or less per month of hazardous waste. VSQG do not require permits. Waste would be disposed of in accordance to applicable requirements.
	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 type="radio"/>	<input checked="" type="radio"/>	
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"/>	Alabama State Historic Preservation Office concurred that these three supplemental sites would not have any cultural resource issues and project activities may commence at these three supplemental sites: Courtland_S20, Summerford S30, and Sudduth_S40.
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"/>	Informal consultation with the U.S. Fish and Wildlife Services (USFWS) resulted in the project receiving the following concurrence statement: "No federally listed species/critical habitat are known to occur in the project area. As described, the project will have no significant impact on fish and wildlife resources." The state of Alabama does not have a comparable Threatened and Endangered species state program. With this finding and understanding, there are no state protected Threatened or Endangered species to be reviewed at the supplemental site locations and no state level consultations would be needed. The supplemental sites would be following the concurrence of "No Significant Impact" from the USFWS and this review has been completed.
19.	Wetlands		<input type="radio"/>	<input checked="" type="radio"/>	Information obtained from the Fish and Wildlife Service : National Wetland Inventory - Wetland Mapper supports observation that wetlands are located around some of the supplemental sites and not within any of the supplemental sites. Any wetland buffers outlined in Alabama regulations would be followed at all supplemental sites with a minimum of a 30 foot buffer unless a more stringent buffer is a requirement.
20.	Floodplain		<input type="radio"/>	<input checked="" type="radio"/>	Information obtained from the Federal Emergency Management Agency : Floodplain Mapper website identifies that the three sites: Courtland_S20, Summerford S30, and Sudduth_S40 are not near any 100-year floodplains.
21.	Landscaping		<input type="radio"/>	<input checked="" type="radio"/>	

22.	Navigable Air Space	<input checked="" type="radio"/>	<input type="radio"/>	ARM program would obtain FAA approvals for all items pertaining to navigable airspace. Instruments meeting this requirement consist of a Tethered Balloon Sonde (TBS) to fly at 1 of 3 supplemental sites, use of Unmanned Aircraft Systems or Unmanned Aerial Vehicles (UAS or UAV), and radars. There is the possibility that UAVs may be used in some campaigns, such as AAFs Artic Shark, a DOE owned UASs and/or fixed wing aircraft, may fly over the AMF3 supporting sites. Possible Moored (tethered) balloon may be launched in the forest in future campaigns. Any UAV or UAS campaign would follow FAA requirements and flight plans, and as applicable for ANL Users the ANL Aviation Safety Program for off-site flights.
23.	Clearing or Excavation	<input checked="" type="radio"/>	<input type="radio"/>	The ARM program would grade and level the land at the supplemental sites to prep for instruments and install gravel and concrete pads/piers at depths up to approximately 5 ft.
24.	Archaeological Resources	<input type="radio"/>	<input checked="" type="radio"/>	Alabama State Historic Preservation Office concurred the three supplemental sites would not have any cultural resource issues and project activities may commence at Courtland_S20, Summerford S30, and Sudduth_S40. Nine tribal entities were contacted for project review; The Muscogee (Creek) Nation and The Choctaw Nation of Oklahoma submitted comments, without concerns on the supplemental site locations.
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"/>	ARM AMF3 would extend or establish power and fiber utilities along existing roads for the supplemental sites.
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 checked="" type="radio"/>	<input type="radio"/>	Information obtained from Natural Resource Conservation Service (NRCS) website identifies that work would be conducted on either prime, unique, or locally important farmland within Lawrence, Winston, and Morgan Counties. This installation has a small footprint totaling less than an acre at each site and is not a permanent conversion of prime farmland. Due to the nature of the project and its extent, the project is exempt from the Farmland Protection Policy Act (FPPA).
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
 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?	<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 from the following class of action from 10 CFR 1021, Subpart D, Appendix B: B 3.1 Site Characterization and Environmental Monitoring.		
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: Supplemental Site Locations [View Attachment](#)

File Description:

Comments

Add Approver

Approver Name	Approver Badge	Reason	Delete
Ritsche, Michael T.	53492	ARM Team	
Hickmon, Nicki L.	215793	ARM Team	
Campbell, Patty	231600	ARM Team	
Sullivan, Casey J.	58262	FWS SME	
Gierek, Lynn M.	36359	SHPO SME	
Lynch, Peter L.	46304	Environmental Compliance	

Notifications

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

Badge	Name	Division	Delete

ASO-CX Number

ASO-CX- 406

Comments:

This DOE's NEPA CX approval is tracked as ASO-CX-406.

Approval

<u>Approver</u>	<u>Action</u>	<u>Date Routed</u>	<u>Action Date</u>	<u>Approval Reason / Comments</u>	<u>Approval Type</u>
Harris, Shana E	APPROVED	2024-03-08	2024-03-08 12:03:46.0	Creator :	PRIMARY
Harris, Shana E	APPROVED	2024-03-08	2024-03-08 12:03:46.0	Project Manager :	PRIMARY
Gierek, Lynn M.	APPROVED	2024-03-08	2024-03-08 13:37:50.0	SHPO SME :	PRIMARY
Lynch, Peter L.	APPROVED	2024-03-08	2024-03-08 16:26:56.0	Environmental Compliance : The project (per PMO Construction Safety Manager) is considering purchasing a used transformer that formerly	PRIMARY

contained PCB oil. The project should obtain certification from the current transformer owner that the transformer has been properly retrofitted per TSCA regulations. AT project conclusion this certification and the label stating less than 1 ppm PCB will be required for disposal as non-PCB transformer. It is also recommended that a sample of oil currently in the unit be sampled and analyzed for PCB's.

Ritsche, Michael T.	APPROVED	2024-03-08	2024-03-11 07:50:58.0	ARM Team :	PRIMARY
Sullivan, Casey J.	APPROVED	2024-03-08	2024-03-08 13:00:41.0	FWS SME :	PRIMARY
Hickmon, Nicki L.	APPROVED	2024-03-08	2024-03-08 12:08:25.0	ARM Team :	PRIMARY
Campbell, Patty	APPROVED	2024-03-08	2024-03-12 13:46:00.0	ARM Team :	PRIMARY
Wozny, Bryan M.	APPROVED	2024-03-12	2024-03-12 14:59:37.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2024-03-12	2024-03-15 09:19:54.0	ANL NEPA Reviewer : Review for AMF3 project 3 Supplemental sites	PRIMARY
Hellman, Karen Sue	APPROVED	2024-03-15	2024-03-19 12:32:14.0	ANL-985 Review and Approval :	PRIMARY
Dunn, Michael W.	APPROVED	2024-03-19	2024-03-20 13:47:39.0	ANL-985 ANL Deputy COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2024-03-20	2024-03-25 16:47:23.0	ANL-985 DOE-ASO Review and Approval : This DOE NEPA CX approval is tracked as ASO-CX-406.	PRIMARY
Siebach, Peter Rudolf	APPROVED	2024-03-25	2024-03-29 13:57:15.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY





