



**Environmental Review Form for Argonne
National Laboratory**

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Your Form ID:	ANL-985-703
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Created By:	Swale, Robert E.

Creator

Badge:	43169	Name:	Swale, Robert E.
Cost Center:	208	Division:	FMS
Job Title:	Infrastructure Program Manager	Employee Type:	Regular Full-Time Exempt
Building:	214	Lab Extension:	2-6526

General Information

Project/Activity Construction and Operation of SBA Cellular Tower (SBA Site: Lemont, IL. SBA Site ID: IL16354-B)

ASO NEPA Tracking No.: 2435

Type of Funding: Private (by SBA)

B & R Code:

Identifying Number: 01618

SPP Proposal Number:

CRADA Proposal Number:

Work Project Number:

ANL Accounting Number:

(Item 3a in Field Work Proposal)

Other (explain): Funding by third-party (SBA Towers) lease agreement (SBA Site: Lemont, IL. SBA Site ID: IL16354-B - Submitted by Argonne on behalf of SBA.

List appropriate NEPA Owners:

Division: CIS NEPA Owner:

Division: FMS NEPA Owner:

Cost Code

Task: 0326400 Center: 208 Project: Activity:

Description of Proposed Action

SBA is proposing to lease an approximately 6,000 square foot area of currently vacant, partially vegetated and previously disturbed land located within the boundaries of ANL. SBA is proposing to redevelop the lease area by constructing a 195-foot monopole tower within a 70-foot by 70-foot fenced compound with space for up to four future cellular carriers to install equipment platforms or shelters. Electrical utilities will be routed underground approximately 150 feet from existing utilities located southwest of the tower compound to the SBA lease area. Fiber utilities will be routed underground approximately 120 feet from existing utilities located southwest of the tower compound to the SBA lease area. Rock Road and Meridian Road are south and west of the SBA lease area, respectively. Access to the SBA lease area is via a proposed gravel drive, leading to an existing gravel/paved drive and the Rock Road right-of-way.

Description of Affected Environment

The proposed SBA lease area is located on land that has been previously disturbed (former land use for research/industrial purposes) located approximately 135 feet east of Building 309 and 75 feet north Building 311. Historical records reviewed included a topographic map from 1928; however, the land use of the SBA lease area was not depicted. The 1939 aerial photograph shows the SBA lease area as agricultural land. The SBA lease area became vacant land when the parent tract and surrounding area were acquired and redeveloped as ANL beginning in 1947. The SBA lease area was redeveloped with a parking lot during this period. The SBA lease area appears to be a portion of a parking lot in a 1971 aerial photograph. The majority of the SBA lease area and land to the east were developed with a solar pond and filled with water used for cooling purposes between 1978 and 1980. No indications of environmental contaminants from use as solar pond or subsequent filling. The remainder of the SBA lease area appeared to be vacant land during this time. The SBA lease area became vacant land when the solar pond was filled, with approximately 8 feet of fill, between 1993 and 1998. The SBA lease area gradually became partially wooded beginning in the early 2010s.

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"/>	Site spoils will be reused on-site and the proposed monopole tower site will serve up to four carriers, thus minimizing the overall pollution footprint that could occur if each had their own location.
2.	Air Pollutant Emissions	<input checked="" type="radio"/>	<input type="radio"/>	During operation of the telecommunications facility backup generators (approx. 50kw) may be utilized by the carriers for emergency electrical support. Consultation with the ANL Title V SME has identified there is no need for permitting for generators.
3.	Noise	<input checked="" type="radio"/>	<input type="radio"/>	Standard construction noise no more than 85 dB
4.	Chemical/Oil Storage/Use	<input checked="" type="radio"/>	<input type="radio"/>	Diesel fuel and/or liquid propane may be stored on site for use as a backup fuel source for emergency electrical generation. Diesel fuel storage tanks will be approximately 250 gallons or less and liquid propane storage tanks will be approximately 1,000 gallons or less. SPCC requirements will be complied with for any fuel source utilized.
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 (FMS-SEP) 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"/>	Site spoils will be reused on site for grading purposes.
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"/>	
	New or Modified Federal or			

12.	State Permits	<input checked="" type="radio"/>	<input type="radio"/>	None are required to the best of knowledge.
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 checked="" type="radio"/>	<input type="radio"/>	ANL hosted public meeting ¿ no feedback or objections. A public notice was published in the Chicago Daily Law Bulletin on January 20, 2016 to notify interested parties of the proposed undertaking and to solicit input on potential impacts to historic properties. No comments were received to date.
15.	Historic Structures and Objects	<input checked="" type="radio"/>	<input type="radio"/>	See attached Indirect APE summary.
16.	Disturbance of Pre-existing Contamination	<input type="radio"/>	<input checked="" type="radio"/>	
17.	Energy Efficiency, Resource Conserving, and Sustainable Design Features	<input checked="" type="radio"/>	<input type="radio"/>	The proposed monopole will serve up to four carriers minimizing the overall environmental impact that could occur if each had their own location.
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"/>	
19.	Wetlands	<input type="radio"/>	<input checked="" type="radio"/>	
20.	Floodplain	<input type="radio"/>	<input checked="" type="radio"/>	
21.	Landscaping	<input type="radio"/>	<input checked="" type="radio"/>	
22.	Navigable Air Space	<input checked="" type="radio"/>	<input type="radio"/>	Based on FAA Determination 2015-AGL-8541-OE, the proposed SBA tower does not exceed obstruction standards and would not be a hazard to air navigation provided notice to the FAA of construction or alteration is filed within 5 days after the construction reaches its greatest height. In addition, marking and lighting are not necessary for this structure to ensure aviation safety.
23.	Clearing or Excavation	<input checked="" type="radio"/>	<input type="radio"/>	Clearing and grubbing of the proposed SBA lease area will occur, as necessary, to provide suitable subgrade. The proposed tower foundation will consist of an appropriately-sized spread mat foundation system placed at 9 feet below ground surface (BGS). Utilities will be installed underground at depths specified by local code. Future carrier equipment shelter/platform foundations will be placed a minimum of 6¿ below frost line and generally consist of either drilled piers or strip footings. All excavated soil will be reused on the site for grading purposes.
24.	Archaeological Resources	<input checked="" type="radio"/>	<input type="radio"/>	None ¿ site is previously disturbed. See attached Direct APE Summary.
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"/>	All proposed utilities (electric, fiber, telephone) will be connected to ANL services and meters.
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 type="radio"/>	
30.	Special Sources of Groundwater (such as sole source aquifer)	<input type="radio"/>	<input type="radio"/>	
31.	Coastal Zones	<input type="radio"/>	<input type="radio"/>	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	<input type="radio"/>	<input type="radio"/>	

33.	Action of a State Agency in a State with NEPA-type Law	<input type="radio"/>	<input type="radio"/>	
34.	Class I Air Quality Control Region	<input type="radio"/>	<input type="radio"/>	

Categorical Exclusion

Miscellaneous Installations/Maintenance Activities

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: Part 1021-DOE NEPA Implementing Procedures, Subpart D, Appendix B, Category B 1.19 Microwave, Meteorological, and Radio Towers		
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:** Indirect APE Summary [View Attachment](#)
- File Description:** Direct APE Summary [View Attachment](#)
- File Description:** Original SHPO Concurrence Letter 2-18-16 [View Attachment](#)
- File Description:** Revised SHPO Letter 3-28-16 [View Attachment](#)
- File Description:** SHPO Letter 5 12 to Ramaker and Associates [View Attachment](#)
- File Description:**

Comments

This ERF (NEPA) document is submitted on behalf of SBA Communications, LLC by UChicago Argonne, LLC as requested by the Department of Energy Argonne Site Office.

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
43169	Swale, Robert E.	FMS	
45884	Sydelko, Thomas G.	FMS	

ASO-CX Number**ASO-CX- 326**

Comments:

ASO-CX-326 Construction and Operation of SBA Cellular Tower on Argonne Site

Approval

<u>Approver</u>	<u>Action</u>	<u>Date Routed</u>	<u>Action Date</u>	<u>Approval Reason / Comments</u>	<u>Approval Type</u>
Swale, Robert E.	APPROVED	2016-04-06	2016-04-06 09:49:11.0	Creator :	PRIMARY
Swale, Robert E.	APPROVED	2016-04-06	2016-04-06 09:49:11.0	Allows access to the form :	PRIMARY
Swale, Robert E.	APPROVED	2016-04-06	2016-04-06 09:49:11.0	Allows access to the form :	PRIMARY
Swale, Robert E.	APPROVED	2016-04-06	2016-04-06 09:49:11.0	Project Manager :	PRIMARY
Matton, Philip B.	APPROVED	2016-04-06	2016-04-07 11:35:44.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Matton, Philip B.	APPROVED	2016-04-06	2016-04-07 11:35:44.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Kosky, Karen M.	APPROVED	2016-04-07	2016-04-20 11:37:35.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2016-04-20	2016-04-21 17:04:17.0	ANL-985 Review and Approval :	PRIMARY
Stine, Gail Y.	APPROVED	2016-04-21	2016-04-21 17:07:43.0	ANL-985 Review and Approval :	PRIMARY
Kearns, Paul K.	APPROVED	2016-04-21	2016-04-22 11:28:43.0	ANL-985 ANL COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2016-04-22	2016-04-29 11:24:48.0	ANL-985 DOE-ASO Review and Approval :	PRIMARY
Siebach, Peter R.	APPROVED	2016-04-29	2016-05-25 10:03:40.0	ANL-985 DOE NEPA Compliance Officer Review and Approval : Per Kate Burnett, ASO, SHPO concurrence letter to Ramaker & Associates sufficient for DOE.	PRIMARY
