

Environmental Review Form for Argonne

National Laboratory

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General Information

iscale Coupled Urban Systems Model	ling
Type of Funding:	
Type of Funding:	
Identifying Number: N/A	
CRADA Proposal Number:	
ANL Accounting Number:	(Item 3a in Field Work Proposal)
	CRADA Proposal Number:

Cost Code

Task: Center: Project: Activity:

Description of Proposed Action

Current models used today to understand cities are not designed to investigate coupled urban systems in sufficient detail, and lack the capability to readily integrate the increasingly diverse machine-readable data, much less real-time sensor data. Initial work installing the Waggle sensor package in NYC covered under ASO-CX-320 "Waggle-Sidewalk- Lightweight Sensors for Urban Environments" will now be expanded to cover similar work in over 30 other installation locations including but not limited to the cities listed below. The Waggle sensor package includes embedded sensors and software which have been constructed on site in a dry lab. These devices are passive. They are sensor devices that read environmental and weather data. They are mounted on poles, buildings, or roofs. They have no emissions or chemical exhaust. Their environmental footprint in a field is a pole stuck in the ground or in a 5 gallon bucket of concrete on a roof. On poles or buildings they stick out about 10 inches, 20 feet up. Staff will provide Waggle packages to city employees for installation in their cities, and staff may or may not travel to those locations to provide field calibration.New York City, NY Boston, MA Washington, D.C., Montgomery County (MD), and Fairfax County (VA) Atlanta, GA Seattle, WA Portland, OR Denver, CO Chattanooga, TN Detroit, MI South Bend, IN Pittsburgh, PA Kansas City, KS and Kansas City, MO Schenectady, NY San Francisco, CADubai, UAE Delhi, IN Bristol, UK Newcastle, UK Hong Kong, CN Mexico City, MX Seoul, SK

Description of Affected Environment

Urban environments where minimal environmental impact is anticipated. The Waggle sensor package includes embedded sensors and software which have been constructed on site in a dry lab. These devices are passive. They are sensor devices that read environmental and weather data. They are mounted on poles, buildings, or roofs. They have no emissions or chemical exhaust. Their environmental footprint in a field is a pole stuck in the ground or in a 5 gallon bucket of concrete on a roof. On poles or buildings they stick out about 10 inches, 20 feet up.

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
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1.	opp	ject evaluated for Pollution Prevention and Waste Minimization portunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 pw, as applicable	0	•	
2.	Air	Pollutant Emissions	0	\odot	
3.	Noise				
4.	Che	emical/Oil Storage/Use	0	\odot	
5.	Pes	sticide Use	0	\odot	
6.	Тох	kic Substances Control Act (TSCA) Substances			
	6a.	Polychlorinated Biphenyls (PCBs)	0	\odot	
	6b.	Asbestos or Asbestos Containing Materials	\circ	\odot	
	6c.	Other TSCA Regulated Substances	\circ	\odot	
	6d.	Import or Export of Chemical Substances	\mathbf{O}^{-}	\odot	
7.	Bio	hazards	0	\odot	
8.		uent/Wastewater (If yes, see question #12 and contact Peter Lynch IS-SEP) at 2-4582 or lynch@anl.gov)	c	Θ	
9.		ste Management			
	9a.	Construction or Demolition Waste	0	\odot	
	9b.	Hazardous Waste	0	\odot	
	9c.	Radioactive Mixed Waste	0	\odot	
	9d.	Radioactive Waste	0	\odot	
	9e.	Asbestos Waste	0	\odot	
	9f.	Biological Waste	0	\odot	
	9g.	No Path to Disposal Waste	0	\odot	
	9h.	Nano-material Waste	0	\odot	
10.	Rad	diation	0	\odot	
11.		eatened Violation of ES&H Regulations or Permit Requirement	0	\odot	
12.	Nev	w or Modified Federal or State Permits	0	\odot	
13.		ng, Construction, or Major Modification of Facility to Recover, Treat, re, or Dispose of Waste	0	\odot	
	-	blic Controversy	0	\odot	
	-	toric Structures and Objects	0	\odot	
	-	turbance of Pre-existing Contamination	0	\odot	
17.	Ene	ergy Efficiency, Resource Conserving, and Sustainable Design Features	0	\odot	
		Section B (For Projects that Occur Outdoors)	Yes	No	
18.	Spe	eatened or Endangered Species, Critical Habitats, and/or other Protected ecies	<u> </u>	•	
	<u> </u>	tlands	0	\odot	
20.	-	odplain	0	\odot	
21.	-	ndscaping	0	•	
22.	-	<i>r</i> igable Air Space	0	\odot	
23.	-	aring or Excavation	0	•	
	<u> </u>	haeological Resources	0	\odot	
25.		derground Injection	0	Θ	
26.	Und	derground Storage Tanks	0	\odot	
27.	Put	blic Utilities or Services	©	0	Each city will be installing the provided package onto existing city public infrastructure.
28.	Dep	pletion of a Non-Renewable Resource	0	\odot	
		Section C (For Projects Outside of ANL)	Yes	No	

29.	Prime, Unique, or Locally Important Farmland	\circ	\odot	
30.	Special Sources of Groundwater (such as sole source aquifer)	\mathbf{C}	\odot	
31.	Coastal Zones	0	\odot	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	C	$oldsymbol{\circ}$	
33.	Action of a State Agency in a State with NEPA-type Law	0	\odot	
34.	Class I Air Quality Control Region	0	\odot	

Categorical Exclusion

Other (Use field below to enter other categorical exclusion) Attached ASO-CX-320 below, B3.1

ANL NEPA Reviewer Use Only

- C 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	o			
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	0	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?					
If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded: Appendix B, B3.1, 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: ASO-CX-320 View Attachment

File Description:

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
51695	Catlett, Charles Edward	MCS	
284298	Amacher, Jessica Anne	CLS	

Comments:

The ERF approved (as ASO-CX-320) in 2015 has been revised to include new locations. The work scope in the new locations (cities) remains the same.

Approval

Approver	Action	Date Routed	Action Date	<u> Approval Reason / Comments</u>	<u>Approval</u> <u>Type</u>
Rodi, Diane J.	APPROVED	2016-10-06	2016-10-06 16:14:25.0	Creator :	PRIMARY
Rodi, Diane J.	APPROVED	2016-10-06	2016-10-06 16:14:25.0	Allows access to the form :	PRIMARY
Sankaran, Rajesh	APPROVED	2016-10-06	2016-10-06 16:22:14.0	Project Manager :	PRIMARY
Rodi, Diane J.	APPROVED	2016-10-06	2016-10-06 16:14:25.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2016-10-06	2016-10-07 15:31:33.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2016-10-07	2016-10-18 09:23:34.0	ANL-985 Review and Approval :	PRIMARY
Stine, Gail Y.	APPROVED	2016-10-18	2016-10-18 11:41:31.0	ANL-985 Review and Approval :	PRIMARY
Kearns, Paul K.	APPROVED	2016-10-18	2016-10-18 13:32:12.0	ANL-985 ANL COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2016-10-18	2016-11-01 14:36:39.0	ANL-985 DOE-ASO Review and Approval : The work scope in this ERF remains the same, therefore it is approved under the same as ASO-CX-320.	PRIMARY
Siebach, Peter R.	APPROVED	2016-11-01	2016-11-01 16:49:26.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY