NETL F 451.1-1/1 Revised: 11/24/2014 Reviewed: 11/24/2014 (Previous Editions Obsolete)

## **U.S. DEPARTMENT OF ENERGY - NETL**

## CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: DE-FE0032078 Sub-recipient(s) and Locations:	Recipient Name: O	hio Univers	sity	Project Location: At	hens, OH	
West Virginia University (Morgantown, WV)						
NETL Sponsoring Org.: FE/TDC/ACCM	/Crosscutting T	eam	NETL Contact:	Robie Lewis		
Brief Title of Proposed Action: Enabling the Next Generation of Smart Sensors in Coal Fired Power Plants Using.						
Brief Description of Activities:  The work will primarily focus on demonstrating the effectiveness of 5G cellular embedded, cloud, and						
edge-computing based sensors specific to coal fired power plant needs.						
THE PROPOSED ACTION FALLS WITHIN THE FOLLOWING CATEGORICAL EXCLUSION(S) FROM APPENDICES A AND B TO SUBPART D OF DOE NEPA IMPLEMENTING PROCEDURES (10 CFR 1021):						
General Administration/Management			Electrical Power and Transmission			
A1 – Routine business actions				B4.4 – Power management activities (storage, load shaping, and balancing)		
<ul> <li>□ A9 – Info gathering, analysis, documentation, dissemination, and training</li> <li>□ A11 – Technical advice and planning assistance</li> </ul>		aining	<ul> <li>□ B4.6 – Transmission support addition/modifications at developed facility sit</li> <li>□ B4.11 – Construction of power substations and interconnection facilities</li> <li>□ B4.13 – Upgrading and rebuilding existing power lines (&lt; 20 miles)</li> </ul>			
Facility Operations			•		, , ,	
<ul> <li>□ B1.3 – Routine maintenance and custodial services</li> <li>□ B1.7 – Communication system and data processing equipment acquisition,</li> </ul>			Conservation, Fossil, and Renewable Energy Activities  ☐ B5.1 – Actions to conserve energy, no indoor air quality degradation			
installation, operation, removal			B5.3 – Modification/abandonment of wells			
☐ B1.15 – Support building or structure, non-waste storage, construction/			B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline			
operation				t/oper within an existing rig ting facilities	tht-of-way (< 20 miles) between	
Safety and Health					on of small quantities of carbon	
B2.1 – Modifications to enhance workplace		<b>4:</b>	dio	oxide (< 500,000 tons)	-	
<ul> <li>□ B2.2 – Installation/improvement of buildin</li> <li>□ B2.3 – Installation of equipment for person</li> </ul>		tion			research/development/pilot projects	
	mor surety and nearth			ternative fuel vehicle fueling ectric vehicle charging statio		
General Research  B3.1 – Site characterization/environmental	monitoring			cerre venicie charging statio	113	
B3.6 – R&D or pilot facility construction/o	-	າg	Other  Specify cate			
☐ B3.7 – New infill exploratory, experimenta			Specify can	egory.		
construction and/or operation			☐ Specify cate	egory:		
<ul> <li>□ B3.9 – Certain CCT demonstration activities, emissions unchanged</li> <li>□ B3.11 – Outdoor tests, experiments on materials and equipment components</li> </ul>		nnonents	<b>_</b> -p,	-87		
B3.11 – Outdoor tests, experiments on materials and equipment components		пропения	□ Specify cate	egory:		
This action (1) would not present any extraordinary circumstances such that the action might have a significant impact upon the human environment; (2) is not connected to other actions with potentially significant impacts; (3) is not related to other actions with cumulatively significant impacts; and (4) is not inconsistent with 10 CFR 1021.211 - Interim Actions or 40 CFR 1506.1 - Limitations during the NEPA process.						
SELECT ONE OF THE FOLLOWING:						
■ This Categorical Exclusion includes all tasks and phases in the Statement of Work or Statement of Project Objectives for this project.						
This Categorical Exclusion is only valid for the following tasks/phases The DOE initiator acknowledges the responsibility to obtain a NEPA determination prior to initiating any activities outside the scope of this Categorical Exclusion.						
SELECT ONE OF THE FOLLOWING.						
SELECT ONE OF THE FOLLOWING:  ☑ This Categorical Exclusion includes all locations and activities for this project.						
Additional sites, sub-recipients, or activities cannot be identified at this time. The DOE initiator acknowledges the responsibility to obtain a NEPA						
determination prior to initiating any a	ctivities outside the so	cope of this Cate	egorical Exclusion	n.		
NOTE: ANY CHANGE(S) TO THE PROJECT SCOPE OR LOCATIONS MAY REQUIRE A NEW NEPA DETERMINATION.						
DOE Initiator Signature: Robie E. Lewis		Digitally signed by Robie E. Lewis Date: 2021.05.28 14:01:04 -04'00'		Date: 05	<del>''</del>	
NEPA Compliance Officer: PIERINA FA	/ISH	Digitally signed by PIERINA FA Date: 2021.06.02 09:48:49 -04	AYISH Y00'	Date: mont	/ 02 / 2021	
month day year  The following special condition is provided for the consideration of the Contracting Officer:						