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

# CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: DE-FE0032274 R	ecipient Name: Iowa State	University Project Location: Ames, IA						
Sub-recipient(s) and Locations:								
University of Wyoming (Laramie, WY	)							
NETL Sponsoring Org.: FECM/TDC/CM/M: Brief Title of Proposed Action: Coal-deri Brief Description of Activities:	ved Graphene Materials							
Develop and demonstrate the feasibility of coal-derived graphite oxide (GO), reduced graphite oxide (rGO), and graphene nanosheets with application to battery anode materials and cement filler.								
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):								
<ul> <li>General Administration/Management</li> <li>A1 – Routine business actions</li> <li>A9 – Info gathering, analysis, documentation, dissemination, and training</li> <li>A11 – Technical advice and planning assistance</li> <li>Facility Operations</li> </ul>		<ul> <li>Electrical Power and Transmission</li> <li>B4.4 – Power management activities (storage, load shaping, and balancing)</li> <li>B4.6 – Transmission support addition/modifications at developed facility site</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>						
<ul> <li>B1.3 – Routine maintenance and custodial ser</li> <li>B1.7 – Communication system and data proce installation, operation, removal</li> <li>B1.15 – Support building or structure, non-wa operation</li> </ul>	ssing equipment acquisition,	<ul> <li>Conservation, Fossil, and Renewable Energy Activities</li> <li>B5.1 – Actions to conserve energy, no indoor air quality degradation</li> <li>B5.3 – Modification/abandonment of wells</li> <li>B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline const/oper within an existing right-of-way (&lt; 20 miles) between</li> </ul>						
Safety and Health         B2.1 – Modifications to enhance workplace habitability         B2.2 – Installation/improvement of building/equipment instrumentation         B2.3 – Installation of equipment for personnel safety and health         General Research		<ul> <li>existing facilities</li> <li>B5.13 – Experimental wells for injection of small quantities of carbon dioxide (&lt; 500,000 tons)</li> <li>B5.15 – Small scale renewable energy research/development/pilot projects</li> <li>B5.22 – Alternative fuel vehicle fueling stations</li> <li>B5.23 – Electric vehicle charging stations</li> </ul>						
<ul> <li>B3.1 – Site characterization/environmental model</li> <li>B3.6 – R&amp;D or pilot facility construction/oper</li> <li>B3.7 – New infill exploratory, experimental or construction and/or operation</li> </ul>	ation/decommissioning l/gas/geothermal well	Other  Specify category:  Specify category:						
<ul> <li>B3.9 – Certain CCT demonstration activities,</li> <li>B3.11 – Outdoor tests, experiments on materia</li> </ul>		<ul> <li>☐ Specify category:</li> <li>☐ Specify category:</li> </ul>						

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:

- It is 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:**

- It is 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 activities outside the scope of this Categorical Exclusion.

### NOTE: ANY CHANGE(S) TO THE PROJECT SCOPE OR LOCATIONS MAY REQUIRE A NEW NEPA DETERMINATION.

DOE Initiator Signature:	ARK RENDER	Digitally signed by MARK RENDER Date: 2023.07.05 10:02-22 -04'00'	Date:	0
NEPA Compliance Officer:	JILL TRIULZI	Digitally signed by JILL TRIULZI Date: 2023.08.14 10:00:38 -04'00'	Date:	mc C

Date:	07 /	05	/ 2023
	month	day	year
Date:	08 /	14	/ 2023
	month	dav	vear

The following special condition is provided for the consideration of the Contracting Officer: