U.S. DEPARTMENT OF ENERGY NATIONAL ENERGY TECHNOLOGY LABORATORY

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

NETL F 451.1-1-1 P.1 Revised: 08.27.2024 Reviewed: 08.27.2024 (previous editions obsolete)

Brief Description of Proposed Action: The Recipient will produce Silicon Oxycarbide Coal-Composite (SiOC) resin and SiOC waste coal fine (V to streamlined semi-continuous production of SiOC resin and SiOC WCF AAP, with the goal of producing Cycle Assessments (LCAs), Techno-Economic Analyses (TEAs), and Feasibility Studies including pilot line of	Innovations, LLC (Oviedo, FL) NETL Project Manager: Brett Hakey Domestic Critical Material Solution: Abundant Graphite Anode Substi NCF) anode active products (AAPs) in small (initial) and large (final) lab-scale batch quantities before transitioning g up to 75 kilograms of SiOC WCF AAP. At completion of batch and semi-continuous production project stages, Life designs will be completed to show the benefits of the streamlined production methods.
THE PROPOSED ACTION FALLS WITHIN THE FOLLOWING CATEGO DOE NEPA IMPLEMENTING PROCEDURES (10 CFR 1021):	DRICAL EXCLUSION(S) FROM APPENDICES A AND B TO SUBPART D OF
General Agency Actions Al - Routine DOE business actions	Electrical Power and Transmission B4.4 - Power marketing services and activities
A9 - Information gathering, analysis, and dissemination	■ B4.6 - Additions and modifications to transmission facilities
□ A11 - Technical advice and assistance to organizations Facility Operation □ B1.3 - Routine maintenance □ B1.7 - Electronic equipment □ B1.13 - Pathways, short access roads, and rail lines □ B1.15 - Support buildings □ B1.31 - Installation or relocation of machinery and equipment Safety and Health □ B2.1 - Workplace enhancements □ B2.2 - Building and equipment instrumentation □ B2.3 - Personnel safety and health equipment Site Characterization, Monitoring, and General Research □ B3.1 - Site characterizations and environmental monitoring	 B4.11 - Electric power substations and interconnection facilities B4.12 - Construction of powerlines (up to 10 miles, or up to 20 miles if within previously disturbed or developed powerline or pipeline rights-of-way) B4.13 - Upgrading and rebuilding existing power lines B4.14 - Construction and operation of electrochemical-battery or flywheel energy storage systems Conservation, Fossil, and Renewable Energy Activities B5.1 - Actions to conserve energy or water B5.3 - Modification or abandonment of wells B5.4 - Repair or replacement of pipelines B5.5 - Short pipeline segments (up to 20 miles) B5.13 - Experimental wells for injection of small quantities of carbon dioxide (up to 500,000 tons per geologic formation) B5.14 - Combined heat and power or cogeneration systems
 B3.2 - Aviation activities (aerial survey and mapping) B3.6 - Small-scale research and development, laboratory operations and pilot projects B3.7 - New terrestrial infill exploratory and experimental wells B3.9 - Projects to reduce emissions and waste generation B3.11 - Outdoor tests and experiments on materials and equipment components 	B5.15 - Small-scale renewable energy research and development and pilot projects B5.16 - Solar photovoltaic systems B5.18 - Wind turbines B5.21 - Methane gas recovery and utilization systems B5.22 - Alternative fuel vehicle fueling stations B5.23 - Electric vehicle charging stations Other Specify category/categories in space below:

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 on actions during the NEPA process.





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CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

NETL F 451.1-1-1 P.2 Revised: 08.27.2024 Reviewed: 08.27.2024 (previous editions obsolete)

SELECT ONE OF THE FOLLOWING:

This Categorical Exclusion includes all tasks, phases, recipients, and locations for the present th	oposed action.
☐ This Categorical Exclusion does not includes all tasks, phases, recipients, and locations following tasks, phases, recipients, or locations specified below are included as part of	
NCO Comment Only: The following comment is provided for the consideration of the Con	tract Specialist or Contracting Officer:
The NETL Project Manager acknowledges the responsibility to obtain a NEPA determination activities outside the scope of this Categorical Exclusion.	on prior to initiating or modifying any
DOE Project Manager Signature: BRETT HAKEY Digitally signed by BRETT HAKEY Date: 2024.11.18 16:48:22-05'00'	Date: 11 / 18 / 2024 month day year
NEPA Compliance Officer Signature: <u>Meagan A. Jacobsen</u>	Date: 11 / 20 / 2024 month day year



CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

NETL F 451.1-1-1 P.3 Revised: 08.27.2024 Reviewed: 08.27.2024 (previous editions obsolete)

U.S. DEPARTMENT OF ENERGY – NATIONAL ENERGY TECHNOLOGY LABORATORY

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

The purpose of this form is to request and obtain approval for a Categorical Exclusion (CX) determination under the National Environmental Policy Act (NEPA) for National Energy Technology Laboratory activities and extramural awards.

Instructions

Provide the following information:

- Funding Authority
- DOE Funding Office
- Solicitation (FOA) Number
- Award Number
- Prime Recipient Name and Location(s)
- Sub-recipient Name and Location(s)
- NETL Organization
- NETL Project Manager
- Title of Proposed Action
- Brief Description of Proposed Action

Check all the boxes that apply; be sure to include anything not listed using the Other category blanks that are provided.

Acquire the signature of the initiator as well as the NEPA Compliance Officer.

In the space above the signatures, a place is provided to list any considerations that you think would be valuable to the contracting officer.

