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-FE0032118 Recipient Name: Susteon Inc	Project Location: Cary, NC
Sub-recipient(s) and Locations:	
Columbia University, New York, NY; Cormetech, Durham, NC	
NETL Sponsoring Org.: FE/TDC/ACCM/Carbon Capture Team	NETL Contact: Dustin Brown
Brief Title of Proposed Action: Bench-Scale Development of Nove	l Direct Air Capture Technology Using Sorbents
Brief Description of Activities:	
To advance a novel structured material system comprising a highly dispersed sorbent with a low-pressure drop support for direct air capture from potential future scale-up.	
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)
 A9 − Info gathering, analysis, documentation, dissemination, and training A11 − Technical advice and planning assistance 	 □ B4.6 – Transmission support addition/modifications at developed facility sit □ B4.11 – Construction of power substations and interconnection facilities □ B4.13 – Upgrading and rebuilding existing power lines (< 20 miles)
Facility Operations	
 □ B1.3 – Routine maintenance and custodial services □ B1.7 – Communication system and data processing equipment acquisition, 	Conservation, Fossil, and Renewable Energy Activities B5.1 – Actions to conserve energy, no indoor air quality degradation
installation, operation, removal	☐ B5.3 – Actions to conserve energy, no indoor an quanty degradation
☐ B1.15 – Support building or structure, non-waste storage, construction/	☐ B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline
operation	const/oper within an existing right-of-way (< 20 miles) between
Safety and Health	existing facilities B5.13 – Experimental wells for injection of small quantities of carbon
☐ B2.1 – Modifications to enhance workplace habitability	dioxide (< 500,000 tons)
B2.2 – Installation/improvement of building/equipment instrumentation	☐ B5.15 – Small scale renewable energy research/development/pilot projects
☐ B2.3 – Installation of equipment for personnel safety and health	☐ B5.22 – Alternative fuel vehicle fueling stations
General Research	☐ B5.23 – Electric vehicle charging stations
☐ B3.1 – Site characterization/environmental monitoring	Other
B3.6 – R&D or pilot facility construction/operation/decommissioning	☐ Specify category:
☐ B3.7 – New infill exploratory, experimental oil/gas/geothermal well construction and/or operation	
☐ B3.9 – Certain CCT demonstration activities, emissions unchanged	☐ Specify category:
☐ B3.11 – Outdoor tests, experiments on materials and equipment components	
	☐ Specify category:
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: ☑ 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 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: Dustin M. Brown Date: 2021.07.31 17:24:49-040	
NEPA Compliance Officer: Mark Lusk Digitally signed by Mark Lusk	Date: 8 / 5 / 2021
The following special condition is provided for the consideration of the Contracting Officer:	