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

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Project No.: DE-FE0032335 Recipient Name: Susteon Inc.	Project Location: Cary, Wake County, NC
Sub-recipient(s) and Locations: Generon: Pittsburgh, CA	
Georgia Tech: Atlanta, GA	
NETL Sponsoring Org.: FE/TDC/Coal/HCM Team	WETL Contact: Patcharin Burke
Brief Title of Proposed Action: High Purity Oxygen Generation thr	ough Modular Structured RPSA
Brief Description of Activities:	
To develop a novel single-stage dual-layer RPSA (Rapid Pressure Swing Adsorption) process for high purity oxygen production. This process utilizes tightly packed fiber module consisting of highly selec	
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
Facility Operations	☐ B4.13 – Upgrading and rebuilding existing power lines (< 20 miles)
B1.3 – Routine maintenance and custodial services	Conservation, Fossil, and Renewable Energy Activities
☐ B1.7 – Communication system and data processing equipment acquisition, installation, operation, removal	B5.1 – Actions to conserve energy, no indoor air quality degradation
☐ B1.15 – Support building or structure, non-waste storage, construction/	 □ B5.3 – Modification/abandonment of wells □ B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline
operation	const/oper within an existing right-of-way (< 20 miles) between existing facilities
Safety and Health ☐ B2.1 – Modifications to enhance workplace habitability	☐ B5.13 – Experimental wells for injection of small quantities of carbon
B2.2 – Installation/improvement of building/equipment instrumentation	dioxide (< 500,000 tons)
☐ B2.3 – Installation of equipment for personnel safety and health	B5.15 – Small scale renewable energy research/development/pilot projects
Consent Description	 □ B5.22 – Alternative fuel vehicle fueling stations □ B5.23 – Electric vehicle charging stations
General Research ☐ B3.1 – Site characterization/environmental monitoring	
■ B3.6 – R&D or pilot facility construction/operation/decommissioning	Other Control of the
B3.7 – New infill exploratory, experimental oil/gas/geothermal well construction and/or operation	Specify category:
☐ 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.	
() Eliminations during the Fibrary 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: Patcharin Burke	Date: 06 / 28 / 23
DOE Initiator Signature: Patcharin Burks NEPA Compliance Officer: Mark w fush Date: 06 / 28 / 23 month day year Date: 7 / 12 / 2023	
month day year	
The following special condition is provided for the consideration of the Contracting Officer:	