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-FE0031969	Recipient Name: Universit	cy of Buffalo P	roject Location: Buffalo, NY	
Sub-recipient(s) and Locations:				
Gas Technology Institute (GTI), Des Plaines, IL (CX previously approved for prime and sub-recipient GTI) Grand Canyon University (GCU), Phoenix, AZ (new sub-recipient)				
NETL Sponsoring Org.: FE/TDC/ACCM/Carbon Capture Team NETL Contact: Dustin Brown				
Brief Title of Proposed Action: Direct Air Capture Using Trapped Small Amines in Hierarchical Nanoporous Capsule Brief Description of Activities:				
Laboratory scale CO2 sorbent material development and testing; associated process design and analysis.				
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	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		Conservation, Fossil	Conservation, Fossil, and Renewable Energy Activities	
☐ B1.7 – Communication system and data processing equipment acquisition,			☐ B5.1 – Actions to conserve energy, no indoor air quality degradation	
installation, operation, removal B1.15 – Support building or structure, non-waste storage, construction/			ation/abandonment of wells	
operation operation			☐ B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline const/oper within an existing right-of-way (< 20 miles) between	
Safety and Health		existing facilities		
B2.1 – Modifications to enhance workplace habitability			☐ B5.13 – Experimental wells for injection of small quantities of carbon dioxide (< 500,000 tons)	
 □ B2.2 – Installation/improvement of building/equipment instrumentation □ B2.3 – Installation of equipment for personnel safety and health 		☐ B5.15 – Small s	☐ B5.15 – Small scale renewable energy research/development/pilot projects	
	amer sarety and nearm		ative fuel vehicle fueling stations c vehicle charging stations	
General Research ☐ B3.1 – Site characterization/environmenta	al monitoring		c venicle charging stations	
 ■ B3.6 - R&D or pilot facility construction/operation/decommissioning ■ B3.7 - New infill exploratory, experimental oil/gas/geothermal well construction and/or operation ■ B3.9 - Certain CCT demonstration activities, emissions unchanged ■ B3.11 - Outdoor tests, experiments on materials and equipment components 		Other Specify category	V.	
		speeny entegor.	,	
		□ Specify category	y:	
		☐ Specify category	y:	
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 FOLLOWIN ☑ This Categorical Exclusion includes ☐ Additional sites, sub-recipients, or ardetermination prior to initiating any	all locations and activities for this ctivities cannot be identified at this	s time. The DOE initiator	r acknowledges the responsibility to obtain a NEPA	
NOTE: ANY CHANGE(S) TO THE PROJECT SCOPE OR LOCATIONS MAY REQUIRE A NEW NEPA DETERMINATION.				
DOE Initiator Signature: Dustin M. Brown	n Digitally signed by Dustin Date: 2021.08.02 15:04:	n M. Brown 29 -04'00'	Date: 08 / 02 / 2021	
NEPA Compliance Officer: PIERINA FA	YISH Digitally signed by PII Date: 2021.08.06 11:	ERINA FAYISH 47:18 -04'00'	month day year Date: 08 / 06 / 2021	
month day year				
The following special condition is provided for the consideration of the Contracting Officer:				
NCO Note: This CX supercedes the previously approved CX for this project, due to a change in subcontractor (Grand Canyon University).				