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

# **CATEGORICAL EXCLUSION (CX) DESIGNATION FORM**

Project No.: DE-FE0032357	Recipient Name: SUNY Buffa	lo	Project Location:	Buffalo, NY				
Sub-recipient(s) and Locations:								
University of Texas at Austin (	ustin, TX)							
NETL Sponsoring Org.: Hydrogen with Carbon Management NETL Contact: Mark Freeman   Brief Title of Proposed Action: Carbon Molecular Sieve Membranes with Hierarchical Chemistries and Structures fo   Brief Description of Activities:   Conduct lab-scale R&D experiments for novel carbon molecular sieve hollow fiber composite membranes with hierarchical chemistries and structures for improved 02 separation from air   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   □ A1 - Routine business actions   ⊠ A9 - Info gathering, analysis, documentat   □ A11 - Technical advice and planning assi   Facility Operations   □ B1.3 - Routine maintenance and custodia   □ B1.7 - Communication system and data p installation, operation, removal   □ B1.15 - Support building or structure, not operation   Safety and Health   □ B2.2 - Installation/improvement of buildi   □ B2.3 - Installation of equipment for perso   General Research   □ B3.1 - Site characterization/environmenta   ⊠ B3.6 - R&D or pilot facility construction/   □ B3.7 - New infill exploratory, experiment construction and/or operation	ion, dissemination, and training stance I services rocessing equipment acquisition, n-waste storage, construction/ ee habitability ng/equipment instrumentation nnel safety and health I monitoring operation/decommissioning al oil/gas/geothermal well ies, emissions unchanged		asmission support additi nstruction of power sub grading and rebuilding ossil, and Renewable E ons to conserve energy, lification/abandonment rt crude oil/gas/steam/ga t/oper within an existing ing facilities perimental wells for inju xide (< 500,000 tons) all scale renewable ene ernative fuel vehicle fue cctric vehicle charging s	, no indoor air quality degradation of wells geothermal/carbon dioxide pipeline gg right-of-way (< 20 miles) between gection of small quantities of carbon ergy research/development/pilot projects teling stations				

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:

- In 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:

- In 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:	MARK FREEMAN	Digitally signed by MARK FREEMAN Date: 2023.07.13 09:54:21 -04'00'	D
NEPA Compliance Office	HARRY TAYLOR	Digitally signed by HARRY TAYLOR Date: 2023.07.20.09.26.31 -04/00	D

Date:	07 /	13	/ 2023
	month		
Date:	07 /	20	/ 2023
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The following special condition is provided for the consideration of the Contracting Officer: