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-FE0032463 Recipient Name: The Ohio Sta Sub-recipient(s) and Locations:	te Univers Project Location: Holly Hill, SC; Columbus
GTI Energy: Des Plaines, IL; Zenith Purification LLC: Missour Trimeric: Buda, Tx	ri City, Tx; Holcim (US) Inc: Holly Hill, SC;
NETL Sponsoring Org.: FECM/TDC/CM/Point Source Carbon C	NETL Contact: Dylan Leary
Brief Title of Proposed Action: EngScale Design and Testing of	Transformational Membrane Technology for Cement
Brief Description of Activities:	Transformational Membrane Technology for Cement
·	2 continue membrane et Helgimia Hella Hill Coment
OSU will perform engineering-scale testing of their CO2 capture membrane at Holcim's Holly Hill Cement Plant. OSU will fabricate membrane modules for use in a newly designed test skid.	
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	☐ B4.6 – Transmission support addition/modifications at developed facility site
☐ A11 – Technical advice and planning assistance	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,	■ B5.1 – Actions to conserve energy, no indoor air quality degradation
installation, operation, removal	☐ B5.3 – Modification/abandonment of wells
☐ 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
C-C-t	existing facilities
Safety and Health	☐ 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	Specify category.
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.	
SELECT ONE OF THE FOLLOWING: This Consequent of Project Objection for this grade and allowed in the Statement of Works on Statement of Project Objections for this grade and allowed in the Statement of Works on Statement of Project Objections for this grade and allowed in the Statement of Works on Statement of Project Objections for this grade and allowed in the Statement of Works on Statement of Project Objections for this grade and allowed in the Statement of Works on Statement of Project Objections for this grade and allowed in the Statement of Works on Statement of Project Object	
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 activit	les outside the scope of this Categorical Exclusion.
SELECT ONE OF THE FOLLOWING:	
- All 2 1 2 1 2 2 2 2 2 2 2 2 2 3 1 1 2 5 1 4 2 5 7 1 1 1 1 4 2 2 2 2 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2 3 1 1 1 2	
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.	
TO THE INCOME OF THE INCOME OF BOOKING	The state of the s
DOE Initiator Signature: DYLAN LEARY Digitally signed by DYLAN LEARY Date: 2024.01.22 11.31.25 -0500'	Date: 01 / 22 / 2024
MAPKILISK Digitally signed by MARK LUSK	month day year
NEPA Compliance Officer: MARK LUSK Date: 2024.01.29 14:12:46-050	Date:
month day year	
The following special condition is provided for the consideration of the Contracting Officer:	