U.S. DEPARTMENT OF ENERGY - NETL

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

	nergy, Inc. Project Location: Boulder, CO					
Sub-recipient(s) and Locations:						
Storworks-Arvada CO, Colorado State University-Fort Collins (CO					
NETL Sponsoring Org.: FE/TDC/ACCM/PSCC Team	NETL Contact: Katharina Daniels					
Brief Title of Proposed Action: Engineering-scale Demonstration	of Transformational Solvent on NGCC Flue Gas					
Brief Description of Activities:						
Design a thermal energy storage (TES) system and compl in support of the ongoing FEED study.	ete a Life Cycle Analysis and sensitivity study					
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	■ B5.1 – Netrons to conserve energy, no model an quarty 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					
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					
	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:					
 B3.9 – Certain CC1 demonstration activities, emissions unchanged B3.11 – Outdoor tests, experiments on materials and equipment components 						
B BST F 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:

- It is 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:	KATHARINA DANIELS	Digitally signed by KATHARINA DANIELS Date: 2024.01.16 14:39:46 -05'00'	Date:	01	16	/ 24
NEPA Compliance Officer	Pierina Fayish	Digitally signed by Pierina Fayish Date: 2024.01.19 14/26:01-05:00	Date:	month	day 19	year / <mark>24</mark>
*				month	dav	vear

The following special condition is provided for the consideration of the Contracting Officer:

NCO Note: This CX applies to the addition of new subcontractors, Storworks and Colorado State University, only. The previous CX remains in effect for all other locations and activities.