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

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

Project No.: DE-FE0032328 Recipient Name: TDA Researce	ch, Inc. Project Location: Golden, CO						
Sub-recipient(s) and Locations:							
University of Alberta; Alberta, Canada							
NETL Sponsoring Org.: <u>FECM/TDC/CM/Hydrogen with C Mgmt.</u> Brief Title of Proposed Action: <u>Advanced Air Separation Unit (A</u> Brief Description of Activities:	NETL Contact: Matthew Adams SU) for Low-Cost H2 Production Via Modular Gasifi						
Project team will fabricate and optimize a sorbent for sorbent and process will be tested within a bench sca							
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, documentation, dissemination, and training         □       A11 – Technical advice and planning assistance         Facility Operations	<ul> <li>Electrical Power and Transmission</li> <li>B4.4 – Power management activities (storage, load shaping, and balancing)</li> <li>B4.6 – Transmission support addition/modifications at developed facility site</li> <li>B4.11 – Construction of power substations and interconnection facilities</li> <li>B4.13 – Upgrading and rebuilding existing power lines (&lt; 20 miles)</li> <li>Conservation, Fossil, and Renewable Energy Activities</li> <li>B5.1 – Actions to conserve energy, no indoor air quality degradation</li> <li>B5.3 – Modification/abandonment of wells</li> <li>B5.5 – Short crude oil/gas/steam/geothermal/carbon dioxide pipeline const/oper within an existing right-of-way (&lt; 20 miles) between existing facilities</li> <li>B5.13 – Experimental wells for injection of small quantities of carbon dioxide (&lt; 500,000 tons)</li> <li>B5.15 – Small scale renewable energy research/development/pilot projects</li> <li>B5.22 – Alternative fuel vehicle fueling stations</li> </ul>						
<ul> <li>B3.1 – Site characterization/environmental monitoring</li> <li>B3.6 – R&amp;D or pilot facility construction/operation/decommissioning</li> <li>B3.7 – New infill exploratory, experimental oil/gas/geothermal well construction and/or operation</li> </ul>	Other Specify category:						
<ul> <li>B3.9 - Certain CCT demonstration activities, emissions unchanged</li> <li>B3.11 - Outdoor tests, experiments on materials and equipment components</li> </ul>	<ul> <li>Specify category:</li> <li>Specify category:</li> </ul>						

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 FOLLOWING:**

- It is 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:	ATTHEW ADAMS	Digitally signed by MATTHEW ADAMS Date: 2023.07.10 11:05:55 -04'00'	Date:	7	10	/ 2023
NEPA Compliance Officer:	MARK LUSK	Digitally signed by MARK LUSK Date: 2023.07.18 09:00:45 -04100	Date:	month	day 18	year / 2023
-				month	day	year

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