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-FE0029866 Sub-recipient(s) and Locations:	Recipient Name:	TDA Research	n, Inc.	Project Location:	Golden, Who	<mark>eat Ridge,</mark>	CO
Gas Technology Institute - Des Plaines, IL; University of California, Irvine - Irvine, CA							
NETL Sponsoring Org.: FE/TDIC/Coa Brief Title of Proposed Action: A New I Brief Description of Activities: Develop a mixed metal oxide syngas that can be used to p	Process for CO	2 Conversion an convert C	to Fuels O2 captured	Steven Mascar from coal-fi ignificantly	red power p	plants into	o CS.
THE PROPOSED ACTION FALLS WI SUBPART D OF DOE NEPA IMPLEM				LUSION(S) FROM	I APPENDICE	S A AND B T	0
General Administration/Management A1 – Routine business actions A9 – Info gathering, analysis, documentation, dissemination, and training A11 – Technical advice and planning assistance Facility Operations B1.3 – Routine maintenance and custodial services B1.7 – Communication system and data processing equipment acquisition, installation, operation, removal B1.15 – Support building or structure, non-waste storage, construction/operation Safety and Health B2.1 – Modifications to enhance workplace habitability B2.2 – Installation/improvement of building/equipment instrumentation B2.3 – Installation of equipment for personnel safety and health General Research B3.1 – Site characterization/environmental monitoring 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		training quisition, etion/	Electrical Power and Transmission □ B4.4 − Power management activities (storage, load shaping, and balancing) □ 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) Conservation, Fossil, and Renewable Energy Activities □ B5.1 − Actions to conserve energy, no indoor air quality degradation □ B5.3 − Modification/abandonment of wells □ B5.5 − Short crude oil/gas/steam/geothermal/carbon dioxide pipeline const/oper within an existing right-of-way (< 20 miles) between existing facilities □ B5.13 − Experimental wells for injection of small quantities of carbon dioxide (< 500,000 tons) □ B5.15 − Small scale renewable energy research/development/pilot projects □ B5.22 − Alternative fuel vehicle fueling stations □ B5.23 − Electric vehicle charging stations Other				
		-	Specify cate	egory:			
			☐ Specify cate	egory:			
		•	☐ Specify cate	egory:			
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 ☐ This Categorical Exclusion is only versions and the companion of the compan	all tasks and phases in alid for the following	tasks/phases		,	The DOE initiat	•	ges the
SELECT ONE OF THE FOLLOWIN ☐ This Categorical Exclusion includes ☐ Additional sites, sub-recipients, or addetermination prior to initiating any NOTE: ANY CHANGE(S) TO THE P	all locations and activities cannot be ideactivities outside the	entified at this tim scope of this Cate	e. The DOE initegorical Exclusion	on.			NEPA
DOE Initiator Signature: STEVEN MASC	ARO	Date:	05 / 08 /	2017			
NEPA Compliance Officer: PIERINA FAYISH Date: 2017.05.12 10:39-06-0400'				Date:		year 2017	
The following special condition is provide	ded for the considera	tion of the Contra	cting Officer:	1	month day	year	