U.S. DEPARTMENT OF ENERGY - NETL

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: DE-FE0032074	Recipient Name: Purdue Un	<mark>iversity P</mark> r	roject Location: We	est Lafayette, IN	
Sub-recipient(s) and Locations:					
None.					
NETL Sponsoring Org.: FE/TDC/ACCM	/IES Team	NETL Contact: And	drew O'Connell	-	
Brief Title of Proposed Action: Invest	igation of Flame Structu	ire for Hydrogen (Gas Turbine Co	ombustion	
Brief Description of Activities:					
Study flame/combustion chara aeroderivative and heavy-dut					
THE PROPOSED ACTION FALLS WE SUBPART D OF DOE NEPA IMPLEM			ION(S) FROM AP	PENDICES A AND B TO	
SUBPART D OF DOE NEPA IMPLEMENTING PROCEDURES (10 C 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 □ B2.3 - 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		Electrical Power and Transmission B4.4 – Power management activities (storage, load shaping, and balancing) B4.6 – Transmission support addition/modifications at developed facility site B4.11 – Construction of power substations and interconnection facilities B4.13 – Upgrading and rebuilding existing power lines (< 20 miles)			
B3.11 – Outdoor tests, experiments on ma	•	Specify category	y:		

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:	Andrew O'Connell	Digitally signed by Andrew O'Connell Date: 2021.05.26 14:19:45 -04'00'	Date:	C
NEPA Compliance Office	r: PIERINA FAYISH	Digitally signed by PIERINA FAYISH Date: 2021.06.01 16/02.56 -04/00	Date:	ma C

Date:	05 /	26	/ 2021
	month	day	year
Date:	06 /	01	/ 2021
	month	dav	vear

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