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-FE0032106 Recipient Name: Solar Turb: Sub-recipient(s) and Locations:	nes Inc. Project Location: San Diego, CA
Southwest Research Institute, San Antonio, TX; U. Californi Laguna Hills, CA; Colorado State University, Fort Collins,	
NETL Sponsoring Org.: FE/TDC/ACCM/IES Team	NETL Contact: Richard Dalton
Brief Title of Proposed Action: Dry Low Emissions Industrial Ga	s Turbine Combustion System for 100% Hydrogen
Brief Description of Activities:	
Low pressure combustion rig tests for H2 and NG fuel blends, nozzle and combustor hardware for design and construction, high pressure combustion rig tests for fuel blends, and full scale rig testing.	
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
ATT - Technical advice and planning assistance	☐ B4.13 – Upgrading and rebuilding existing power lines (< 20 miles)
Facility Operations	B4.13 – Opgrading and rebunding existing power lines (< 20 lines)
☐ 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
•	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
	☐ B5.23 – Electric vehicle charging stations
General Research	_ Boiles Electric formers changing stations
B3.1 – Site characterization/environmental monitoring	<u>Other</u>
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	☐ Specify category:
B3.9 – Certain CCT demonstration activities, emissions unchanged	Speedly emegary.
☐ 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:	
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.	
<ul> <li>SELECT ONE OF THE FOLLOWING:</li> <li>☑ This Categorical Exclusion includes all locations and activities for this project.</li> <li>☐ 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.</li> </ul>	
NOTE: ANY CHANGE(S) TO THE PROJECT SCOPE OR LOCATIONS MAY REQUIRE A NEW NEPA DETERMINATION.	
DOE Initiator Signature: Richard P. Dalton Digitally signed by Richard P. Dalton	Bate.
NEPA Compliance Officer: JESSE GARCIA Digitally signed by JESSE Date: 2021.08.11 15:37:37	Date:
month day year	
The following special condition is provided for the consideration of the Contracting Officer:	