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-FE0032354 Recipient Name: UCLA Sub-recipient(s) and Locations:	Project Location: Los Angeles, CA
SolGrapH - Los Angeles, CA and/or Casa Grande, AZ Southwest Solar Technology LLC - Casa Grande, AZ	
NETL Sponsoring Org.: FE/TDC/Resourse Sustainability Brief Title of Proposed Action: Direct Solar Self-Catalyzing Pyr Brief Description of Activities:	NETL Contact: Robert Noll olysis of Natural Gas to Hydrogen and High-Quali
This project aims to advance and commercially translate the technology that uses concentrated solar radiation to convert natural gas directly into high-quality graphite and hydrogen.	
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 □ 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) Conservation, Fossil, and Renewable Energy Activities □ B5.1 – Actions to conserve energy, no indoor air quality degradation
installation, operation, removal B1.15 – Support building or structure, non-waste storage, construction/operation	 □ 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
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	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
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	□ B5.23 – Electric vehicle charging stations Other Specify category: 5.17 Solar Thermal Systems
construction and/or operation □ B3.9 – Certain CCT demonstration activities, emissions unchanged □ B3.11 – Outdoor tests, experiments on materials and equipment components	☐ Specify category: ☐ 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. 	
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: Robert W. Noll Digitally signed by Robert W. Noll Date: 2023.07.17 16:03:51 -04/00	Date: 07 / 17 / 2023 month day year
NEPA Compliance Officer: HARRY TAYLOR Digitally signed by HARRY TAYLOR	/LOR 07 (0002
The following special condition is provided for the consideration of the Contracting Officer:	