

U.S. DEPARTMENT OF ENERGY - NETL

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: DE-EE0007080/2439 Recipient Name: Battelle Memorial Inst Project Location: Columbus, OH

Sub-recipient(s) and Locations:

University of Pittsburgh (Pittsburgh, PA)

NETL Sponsoring Org.: FE/TDC/Natural Gas & Oil NETL Contact: Robert Vagnetti

Brief Title of Proposed Action: A Multi- Component Approach to Characterizing In-Situ Stress at the FORGE Site

Brief Description of Activities:

The objective is to apply three different methods for estimating stress in the FORGE EGS geothermal reservoir.

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

- 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

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
- 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 category:
- 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 All excluding task 3.3 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 VAGNETTI

Digitally signed by ROBERT VAGNETTI
Date: 2021.05.13 09:47:47 -0400

Date: 5 / 13 / 2021

month day year

NEPA Compliance Officer: PIERINA FAYISH

Digitally signed by PIERINA FAYISH
Date: 2021.05.18 10:57:02 -0400

Date: 05 / 18 / 2021

month day year

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

Task 3.3 field work should be reviewed separately to ensure the activities are consistent with the Utah FORGE EA/FONSI.