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(Previous Editions Obsolete)

U.S. DEPARTMENT OF ENERGY - NETL

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: LANLFE-634-15-FY15 Recipient Name: Los Alamos Natl. Lab Project Location: Los Alamos, New Mexico

Sub-recipient(s) and Locations:

Sandia National Lab - Albuquerque,NM; University of New Mexico - Albuquerque, NM;
Chevron Energy Technology Co. - Houston, TX and the Mont Terri Underground facility at St. Ursanne, Switzerland

NETL Sponsoring Org.: FE/SCC/Storage Divison NETL Contact: Karen Kluger, px6667

Brief Title of Proposed Action: Nonlinear Acoustic Methods for the Detection and Monitoring of CO2/Brine Leak...

Brief Description of Activities:

Project will conduct experiments to simulate wellbore materials & measure properties,degrade material & remeasure properties,perform acoustic probe measurements,then test probe at Mont Terri, Switzerland.

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
- [x] A1 – Routine business actions
- [x] 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
- [x] 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
- [x] Specify category: B3.15-Small scale indoor research using using nano-scale materials.
- [ ] 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:
- [x] 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:
- [x] 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: Karen Kluger — Digitally signed by Karen Kluger DN: cn=Karen Kluger, o=NETL, ou=U.S. Department of Energy, email=karen.kluger@netl.doe.gov, c=US Date: 2015.08.28 11:56:25 -04'00' Date: 08 / 28 / 2015 (month / day / year)

NEPA Compliance Officer: Fred E. Pozzuto — Digitally signed by Fred E. Pozzuto DN: cn=Fred E. Pozzuto, o=DOE - National Energy Technology Laboratory, ou=Environmental Compliance Division, email=fred.pozzuto@netl.doe.gov, c=US Date: 2015.08.31 11:26:20 -04'00' Date: 08 / 31 / 2015 (month / day / year)

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

NOTE: The Principle Investigator [PI] and/or NEPA Compliance Officer[NCO] overseeing the work performed at the national laboratories [Sandia National Lab & Los Alamos National Lab] are responsible for NEPA compliance for those project activities.