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U.S. DEPARTMENT OF ENERGY - NETL

CATEGORICAL EXCLUSION (CX) DESIGNATION FORM

Project No.: DE-FE0032052 Recipient Name: Penn State University Project Location: University Park, PA

Sub-recipient(s) and Locations:

Colorado School of Mines,Golden,CO;U of KY,Lexington,KY;American Resources Corp,Fishers,IN;Materia USA,Canonsburg, PA; Tetra Tech, Pittsburgh,PA; Texas Mineral Resources Corp, NY,NY; USA Rare Earth, NY,NY; VA Tech, Blacksburg,VA

NETL Sponsoring Org.: FE/TDC/ACCM/Minerals Sust. Team NETL Contact: Michael Fasouletos

Brief Title of Proposed Action: Consortium to Assess Northern Appalachia Resource Yield (CANARY) of CORE-CM for

Brief Description of Activities:

The CANARY of CORE-CM for Advanced Materials will evaluate the carbon ore, rare earth element, and critical mineral (CORE-CM) production potential of the Northern Appalachian (NA) basin.

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 . 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: Michael A. Fasouletos Digitally signed by Michael A. Fasouletos Date: 2021.08.11 06:45:52 -04'00' Date: 08 / 11 / 2021 (month day year)

NEPA Compliance Officer: Mark Lusk Digitally signed by Mark Lusk Date: 2021.08.13 12:13:09 -04'00' Date: 08 / 13 / 2021 (month day year)

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

Any field sampling must be approved by DOE after submittal of a plan documenting the sampling methodologies and locations; and will likely require additional NEPA review. Certain locations, e.g. Tribal lands or Federal lands administered by other agencies, may trigger requirements for additional reviews or consultations in coordination with NEPA.