PMC-ND

(1.08.09.13)

U.S. DEPARTMENT OF ENERGY OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY NEPA DETERMINATION



RECIPIENT: University of Utah

STATE: UT

PROJECT TITLE:

Novel Geothermal Development of Deep Sedimentary Systems in the United States

Funding Opportunity Announcement Number DE-FOA-0000336

Procurement Instrument Number NEPA Control Number CID Number

DE-EE0005128

GFO-0005128-002 GO5128

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering, analysis, and dissemination

Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

B3.6 Small-scale research and development. and pilot projects

Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) laboratory operations, frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Rationale for determination:

The University of Utah would utilize DOE and cost share funds to research the geothermal power potential of deep sedimentary basins in the U.S. by assessing the electric generating capacity, economics and environmental risks of developing deep sedimentary reservoirs, and developing a preliminary design for heat extraction. This project includes two Phases. Phase I of the project was previously approved by GFO-0005128-001 on August 24, 2011. DOE made a conditional "go" decision to proceed with Phase II of this project and tasks were written that were detailed enough for review. This NEPA Determination is for Phase II activities.

Phase II continues the work that began in Phase I of the project via data assessment and characterizing geothermal power potential for prospective basins selected in Phase I. Remaining project tasks consist of data analysis, computer modeling, and laboratory analyses. Laboratory work would continue to take place at the X-ray diffraction and fluid inclusion laboratories located at the Energy and Geoscience Institute, 423 Wakara Way, Research Park, Salt Lake City, UT that was utilized as part of Phase I. There is no field work associated with any of the remaining project tasks. Laboratory work would use existing core and cuttings samples that have previously been obtained by the geothermal industry.

Based on review of the project information, DOE has determined that the remaining project activities (Phase II) would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that these activities are consistent with actions contained in DOE categorical exclusions A9 "Information gathering, analysis, and dissemination," and B3.6 "Small-scale research and development, laboratory operations, and pilot projects," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist:

This NEPA Determination does not require a tailored NEPA provision.

Casey Strickland 12/26/2013

TU STEATE 10	1/3/5
NEPA Compliance Officer Signature: NEPA Compliance Office	Date: Date:
FIELD OFFICE MANAGER DETERMINATION	
☐ Field Office Manager review required	
NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE	FOLLOWING REASON:
Proposed action fits within a categorical exclusion but involves a high prof Manager's attention.	file or controversial issue that warrants Field Office
Proposed action falls within an EA or EIS category and therefore requires l	Field Office Manager's review and determination.
BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION O	OF THE NCO:
Field Office Manager's Signature:	Date:
Field Office Manager	

the same of many medicular are hardly associable. Not institute the fall party are