PMC-ND

(1.08.09.13)

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



RECIPIENT: Temple University

STATE: PA

PROJECT

Development of tools for coupled InSAR and Seismicity monitoring of EGS reservoir development and

TITLE:

management

Funding Opportunity Announcement Number DE-FOA-0000522

Procurement Instrument Number NEPA Control Number CID Number

DE-EE0005510

GFO-0005510-002

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 and dissemination

Information gathering (including, but not limited to, literature surveys, inventories, site visits, and gathering, analysis, 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.)

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Temple University to develop an integrated set of tools to monitor the evolution of permeability and fluid flow within an enhanced geothermal system (EGS) during both the stimulation and production phases to infer the location, geometry and pore pressure distribution within the subsurface fracture network. This information could then be used to guide decisions regarding injection pressures and flow rates during simulation and production as well as enable optimization of long-term field management and aid in locating additional wells as the geothermal field is developed.

There was a previous NEPA determination (GFO-0005510-001; CX A9, B3.1; 1/8/2012) for this award that included a review of all Phase 1 activities which included computer modeling, data analysis and software development. This NEPA review applies to all Phase 2 activities.

Proposed Phase 2 activities would build on the work that occurred in Phase 1 and would involve integrating information from Phase 1 into a workflow. Phase 2 would be limited exclusively to intellectual, academic, or analytical activities and would require no physical materials beyond basic office supplies and software.

Based on review of the project information and the above analysis, DOE has determined the proposed project would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that this project is consistent with actions outlined in DOE categorical exclusion A9 "Information gathering, analysis, and dissemination" and is therefore 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 the Recipient intends to make changes to the scope or objective of this project, the Recipient is required to contact the Project Officer, identified in Block 15 of the Assistance Agreement before proceeding. The Recipient must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved. If the Recipient moves forward with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance of a final NEPA decision, the Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist:

Geothermal Technologies Office This NEPA determination does not require a tailored NEPA provision. Review completed by Logan Sholar on 03/21/2016

SIC	GNATURE OF THIS MEMORANDUM (CONSTITUTES A RECORD OF THIS DECIS	SION.
NE	PA Compliance Officer Signature:	NEPA Compliance Officer	Date:3/21/2016
FII	ELD OFFICE MANAGER DETERMINA	ATION	
	Field Office Manager review required		
NC	O REQUESTS THE FIELD OFFICE MA	ANAGER REVIEW FOR THE FOLLOWING	REASON:
	Manager's attention.		
BA	SED ON MY REVIEW I CONCUR WIT	TH THE DETERMINATION OF THE NCO:	
Field Office Manager's Signature: Date:			Date:
		Field Office Manager	