(2.04.02)

U.S. DEPARTMENT OF ENERGY EERE PROJECT MANAGEMENT CENTER NEPA DETERMINATION



RECIPIENT: Arthur Mansure

STATE: NM

PROJECT TITLE:

Renewability and Sustainability of Geothermal Energy Production

E-FOA-EE0000075

Funding Opportunity Announcement Number Procurement Instrument Number DE-EE0002740

NEPA Control Number CID Number GFO-10-153

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 (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.

Rational for determination:

Arthur Mansure would complete an Energy Returned on Investment (EROI) for electric power production of Engineered Geothermal Systems (EGS). The framework established and methodology would apply to hydrothermal, low-temperature, direct heat, co-produced fluids, and heat pump utilization of geothermal resources. The project is divided into two tasks.

Task 1) Preliminary EROI of EGS

Process analysis would be developed for key well construction steps as part of this work. This data would be supplemented with data from Argonne National Lab's LCA (Life Cycle Assessment) of geothermal development other related efforts. The result will be a preliminary determination of EROI for EGS that would be documented in detail including supplemental information and published.

Task 2) Project Management and Reporting

Reports and other deliverables would be provided in accordance with the Federal Assistance Reporting Checklist following the instructions included therein.

There should be no generation of air emissions or hazardous wastes associated with this project. This project comprises of information gathering and analysis; therefore this project is categorized into Categorical Exclusion A9.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist:

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NE	PA Compliance Officer Signature: NEPA Compliance Officer	Date: _	1/26	2010
FII	ELD OFFICE MANAGER DETERMINATION			
	Field Office Manager review required			
NC	CO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REAS	ON:		
	Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention. Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.			
BA	SED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO:			
Field Office Manager's Signature:		Date:		
	Field Office Manager			