PMC-EF2a

(2.0 (.02)

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



RECIPIENT: University of Utah

STATE: UT

PROJECT

Fracture Network and Fluid Flow Imaging for EGS Applications from Multi-Dimensional Electrical

TITLE:

Resistivity Structure

Funding Opportunity Announcement Number

Procurement Instrument Number NEPA Control Number CID Number

DE-PS36-09GO99018

DE-EE0002750

GFO-10-232

GO2750

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:

The University of Utah is proposing a project to advance three-dimensional (3-D) MT imaging by developing the capability to include topographic variations into the models through deformable finite element (FE) or finite difference (FD) meshes. The intention is to improve and advance individual or combinations of non-invasive exploration technologies for resolving geothermal resources that lack surface manifestations.

Project tasks include the following:

- * Loki-3D Algorithm Recon
- * Current FD completion, initial Cove Fort inversion
- * Loki-3D Electric Fields, FD deformable mesh
- * Inversion Parameter Sensitivities
- * Inverse Integration
- * SMP Inverse Parallelization
- * Project Management and Reporting

This project involves information gathering only; therefore a CX A9 will apply.

NEPA PROVISION

Note to Specialist:

None Given.

Date: 3/10/10 SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION. NEPA Compliance Officer Signature: NEPA Compliance Officer

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

☐ Proposed action falls within an E		s Field Office Manager's review and determination.
BASED ON MY REVIEW I CONC	CUR WITH THE DETERMINATION	OF THE NCO:
Field Office Manager's Signature:	to the same of the	Date:
	Field Office Manager	TITLE Repistroly Structure