

PMC-EF2a

(20102)

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



RECIPIENT: SAIC

STATE: CA

**PROJECT TITLE :** Development of an Advanced Stimulation/Production Predictive Simulator for Enhanced Geothermal Systems

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
DE-PS36-09GO99018	DE-EE0002763	GFO-10-081	GO2763

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:

Science Applications International Corporation (SAIC) and Geotwatt would develop an advanced stimulation/production predictive model for enhanced geothermal systems (EGS). The project would produce a computer model, which could be used in the planning and design of stimulation techniques to create engineered reservoirs for EGS. Work would take place at SAIC's offices located at 10260 Campus Point Drive, San Diego, California and Geowatt offices located at Dohlenweg 28, Zurich, Switzerland. The project would be divided into seven tasks:

- Task 1.0 – Simulator Design
- Task 2.0 – Development of Simulator Modules
- Task 3.0 – Development & Verification of Advanced Stimulation/Production Predictive Model
- Task 4.0 – Geophysical Postprocessors & Advanced Stimulation/Production Predictive Model
- Task 5.0—Monitor EGS Developments
- Task 6.0 – Model Applications
- Task 7.0 Project Management and Reporting

This proposal comprises data gathering/analysis, and actions to promote the research and development of more efficient geothermal resources; therefore this project is categorized as CX 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.**

NEPA Compliance Officer Signature: \_\_\_\_\_

*Kristin Kern*  
NEPA Compliance Officer

Date: 2/08/2010

**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 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.

**BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :**

Field Office Manager's Signature: \_\_\_\_\_

Field Office Manager

Date: \_\_\_\_\_

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