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

RECIPIENT: Oski Energy
STATE: CA

PROJECT
TITLE: Bald Mountain Low-Temperature Geothermal Project

Funding Opportunity Announcement Number
Procurement Instrument Number
NEPA Control Number
CID Number
DE-FOA-0000318
DE-EE0004430
GFO-0004430-001
EE0

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.
B3.1 Onsite and offsite site characterization and environmental monitoring, including siting, construction (or modification), operation, and dismantlement or closing (abandonment) of characterization and monitoring devices and sampling construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis. Activities covered include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. Specific activities include, but are not limited to:

Rational for determination:
Oski Energy LLC (Oski) would use U.S. Department of Energy (DOE) grant funds to validate the theoretical as well as actual performance advantages of an advanced ammonia-water mixed fluid cycle (Project Cycle) over the current state-of-the-art Organic Rankine Cycle (ORC) for both on and off design point operating conditions in low temperature geothermal resource applications, validate that the Project Cycle offers significant economic benefits over ORC for similar project net output generation levels, prove that ammonia-water mixed fluid cycle projects offer similar or superior operational performance to ORC projects in terms of project capacity, availability, and operational overhead inclusive of safety, ease of use, and efficiency.

The project is divided into three phases with multiple tasks. This NEPA determination is specific to Phase I activities. As part of the requirements of the Funding Opportunity Announcement that this project was selected under (DE-FOA-0000318), a down select process will determine which projects will move forward to Phase II. If this award is selected to move forward, more specific project data would be submitted for Phase II/Phase III activities and another NEPA determination would be needed at that time.

Phase 1 – Feasibility Study and Engineering Design and Permitting
1. Geologic Model of Target Geothermal Resource
2. Geothermal Production Estimate - Flow test data would be evaluated to determine geothermal fluid production rates and temperature. All permits are in place for flow testing of the existing geothermal well.
3. Numerical Modeling of Project and ORC Cycles
4. Pilot Project Engineering Design
5. Pilot Project Economic Feasibility
6. Environmental Permitting of Pilot Plant Construction
7. Project Management
Phase 2 – Procurement, Installation and Commission of equipment
Phase 3 – Operation and Maintenance

Condition of Approval: Allowable – Phase I (all tasks); Prohibited – Phase II (all tasks) and Phase III (all tasks).

Based upon the information provided, Phase I (all tasks) is categorically excluded under CX A9 "Information gathering/data analysis/document preparation/dissemination," and CX B3.1 "Site characterization/environmental monitoring."

NEPA PROVISION
DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon


11/18/2010
the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:
Phase 2 (all tasks)
Phase 3 (all tasks)

This restriction does not preclude you from:
Phase 1 (all tasks)

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist:

This project involves tasks which are unallowable prior to further environmental analysis of Phase II (all tasks) and Phase III (all tasks). NEPA requests that this project be placed on ASAP Approval.

EF2a prepared by Casey Strickland

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: NEPA Compliance Officer Date: 11/24/10

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: 