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

Ormat Nevada, Inc.

STATE: NV

Project: Desert Peak EGS Project

Funding Opportunity Announcement Number
DE-PS07-02ID14264

Procurement Instrument Number
DE-FC36-02ID14406

NEPA Control Number
GFO-03-134-001

As a result of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

NEPA DETERMINATION AND NUMBER:

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

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

Workover (operations to restore production, such as deepening, plugging back, pulling and resetting lines, and squeeze cementing) of an existing oil, gas, or geothermal well to restore production. Workover operations will be restricted to the existing wellpad and not involve any new site preparation or earth work that would adversely affect adjacent habitat.

Project Description:

Ormat Nevada, Inc. would attempt to stimulate a privately owned non-productive geothermal well (well 27-15) in an existing field using various stimulation techniques to increase production at the existing Desert Peak power plant. The goal of this project is to engineer an Enhanced Geothermal System, which would provide geothermal fluid to increase production at the Desert Peak power plant, delivering commercial electricity to a utility or other power consumers.

The project is divided into three phases with multiple tasks in each phase. Phase I/Budget Period 1: Feasibility Evaluation. A go/no-go decision would be made prior to Phase II based on the data analyses and field activities in Phase I suggesting that stimulation of well 27-15 would increase power generation at the Desert Peak power plant. The project would move into Phase II activities without written authorization from the DOE Contracting Officer. Should Phase II not be initiated, the Phase I Report and all review presentations would be submitted as the final technical report for DOE purposes. Phase II/ Budget Period 2: Well Stimulation and Collection/Analysis of Stimulation Monitoring Data. Phase III/ Budget Period 3: Testing of the system and reporting.

Ormat Nevada, Inc. indicates appropriate permits are in place for their geothermal development; any waste is handled in accordance with federal, state, and local regulations. The Bureau of Land Management (BLM), which has jurisdiction over the adjacent geothermal development completed the Desert Peak 2 Geothermal Project EA (September 2003) and the FONSI/Decision Record (DR) 30, 2003. However, BLM does not have jurisdiction of the 27-15 geothermal well or the Desert Peak 2 geothermal plant which are privately owned and on private property. The project is consistent with BLM's FONSI, which analyzes the Desert Peak 2 power plant and well 27-15 in the Cumulative Impacts Section of the EA. Additionally, DOE's CX B5.1 project is consistent with the completion to existing wells like the 27-15.

The project comprises of restoring production of an existing geothermal well using various techniques while gathering data, making evaluations and required monitoring, the project is categorized into CX A9, B3.1, and B5.12.

Conclusion:

I hereby make a final NEPA determination for this award.

Following language in the award:

Specialist :

THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

Officer Signature:



Steve P Blazek

NEPA Compliance Officer

Date:

8/24/

MANAGER DETERMINATION

Manager review required

THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

The action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention. The action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Manager's Signature:

Field Office Manager

Date: