

PMC-EF2a

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



RECIPIENT:Oakland University

STATE: MI

PROJECT TITLE : Oakland University HHB Ground Source HP

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000116	DE-EE0002970	GFO-10-193	0

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 siting, 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:

Oakland University (OU) would demonstrate the potential geothermal resource using geothermal heat source pumps for heating and cooling the university's Health Science Building. In Phase I, OU would complete a preliminary geothermal heat source pumps design for the Health Science Building. Final design and construction would take place in Phase II and III. This analysis is Phase I only. The project would be divided into Phase I with multiple tasks:

Phase I – Project Design

Subtask 1.0 – The AE firm already performed energy modeling for the building and draft designs have been created, including Schematic design drawings, a project narrative, and budget was sent to the State of Michigan for review.

The preliminary architectural, mechanical, and electrical system designs would be further developed. Preliminary "DD" drawings would be given to OU, and Construction Manager (CM) for review, comment, and revisions by AE.

Subtask 1.1 – Construction Documents: OU and CM changes would be incorporated into including preliminary specifications and construction plans.

Subtask 1.1.1 –The construction documents would be given to the State for review and approval.

Since the final design has not been completed and the geothermal well locations have not been identified Task 1.2 cannot be analyzed at this time.

Subtask 1.2 – Bidding and Award of Subcontracts: The CM would solicit multiple subcontract bids for all of the building components such as civil, structural, mechanical, electrical, etc. Formal construction schedules would be created and maintained by the CM as the project construction commences.

At this time, there is not a final design for the geothermal heat source pump system (including locations of the geothermal wells), and therefore cannot be analyzed. Therefore, Phase I Subtask 1.2, Phase II, and III are not authorized. Phase I subtask 1.2, Phase II, and III would be analyzed once the design for the geothermal heat source pump system is finalized (including the location of the geothermal wells) and submitted to the DOE.

Condition of Approval: Allowable: Phase I subtask 1.0 and 1.1; Prohibited: Phase I subtask 1.2, Phase II, and III. This proposal comprises data analysis for conceptual design and onsite characterization actions to promote the research and development of geothermal resources; therefore this project is categorized as CX A9, and B3.1.

NEPA PROVISION

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon 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 I subtask 1.2, Phase II, and III

This restriction does not preclude you from:

Phase I subtask 1.0 and 1.1

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 :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

Benjamin Kerwin
NEPA Compliance Officer

Date: _____

2/19/2010

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: _____