

PMC-EF2a

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



(2014.02)

RECIPIENT: Greenfield Community College

STATE: MA

PROJECT TITLE : Geothermal Project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0003221	GFO-10-614	GO3221

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:

Greenfield Community College, located in Greenfield, MA, proposes to use DOE funding under DE-EE0003221 to design and install multiple geothermal wells to supplement the heating/cooling system needs for the main campus building which is currently under renovation and expansion. The existing chiller plant can provide 600 tons of cooling capacity, and the design peak cooling load for the building is approximately 650 tons. This project would use a renewable energy source, geothermal, to supplement Greenfield Community College's cooling capacity. The project would occur in two phases, project design and geothermal installation.

Phase 1, Task 1.0, Project Design, would consist of an engineering review of the facility, heating and cooling loads, and a feasibility review of geothermal application alternatives; developing a design of geothermal wells and associated equipment needed to supplement the existing 600 ton chiller plant and increase the total building cooling capacity for the renovated and expanded main campus building; conducting an HVAC design for integrating the geothermal wells into the central cooling system; and conducting an architectural and civil design of the overall redesign and renovation of the Core section of the main campus building.

Phase 2, Task 2.0, Geothermal Installation would incorporate information determined during the previous Task 1.0 design phase of the project. Because project details, such as the number and location of proposed boreholes, would be determined during Task 1.0, a NEPA determination for Task 2.0 would be premature at this time. Task 2.0 would be analyzed once such information becomes available. Therefore, this NEPA determination applies only to Phase 1 (Task 1.0) activities.

Condition of Approval: Allowable – Phase 1 (Task 1.0); Prohibited – Phase 2 (Task 2.0)

Based on information provided by the applicant, Phase 1 (Task 1.0) is categorically excluded under CX A9 "Information gathering/data analysis/document preparation/dissemination."

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 2, Task 2.0 (including all subtasks)

This restriction does not preclude you from:

Phase 1, Task 1.0 (including all subtasks)

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. GO NEPA requests that this project be placed on ASAP Approval.

EF2A prepared by Larry Kimmel

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 9/15/2010
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 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: _____ Date: _____
Field Office Manager