

PMC-EF2a

(2.04.02)

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



RECIPIENT: Illinois Department of Commerce and Economic Opportunity

STATE: IL

PROJECT
TITLE : Kaskaskia College Geothermal

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	EE0000119	GFO-10-458	EE119

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:

B5.1 Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

Rational for determination:

The State of Illinois will provide \$33,000 in Recovery Act funds to Kaskaskia College to cover costs associated with the installation of a 26-ton vertical closed loop ground source heat pump system servicing its new 13,500 square foot Fitness Center. The College is located at 2721 College Road, Centralia, IL. The total area of the geothermal well field is 4,000 square feet and consists of 33 boreholes drilled to a depth of 250 feet.

The ground source heat pump system was constructed in an open grassy area that had been previously disturbed. DOE has determined that no wetlands, floodplains or coastal zones were affected by the installation. Using the Illinois Department of Natural Resources online Ecological Compliance Assessment Tool (EcoCAT), the reviewer determined that there is no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

The system was designed by a company specializing in geothermal systems. Installation was directed or supervised by a certified IGSHPA installer according to IGSHPA requirements. Erosion controls were in place during the installation, and the area was re-seeded with grass upon completion. The project was in compliance with all applicable state, federal, and local laws, ordinances, and regulations and all required licenses, permits, etc., have either been obtained.

DOE is aware that the installation of the geothermal well field is complete. A post construction site visit was conducted on June 15th, 2010 by personnel from the DOE Golden Field Office to inspect the project and assess potential environmental impacts from the project construction. Through a inspection of the installed geothermal system, it is concluded that there were no adverse impacts to the site or the surrounding area. The geothermal system was installed as described by the information above.

After a thorough review of the submitted information and a post-construction site visit, it has been determined that the project has not had a significant impact to human health and/or environment. Based on the information obtained from the site visit, the work outlined is consistent with activities identified in Categorical Exclusion B5.1.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

According to the project officer, funding for this project is \$33,000. As the work identified is now complete and the State is paying in arrears, payment based on invoice may be warranted.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____
NEPA Compliance Officer

Date: 6/24/10

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: _____

The State of Illinois will provide \$34,000 in Recovery Act funds to Illinois State College to cover costs associated with the installation of a 25-ton vertical closed loop ground source heat pump system serving its new 13,000 square foot Finance Center. The College is located at 2321 College Road, Carbondale, IL. The total size of the government will field is 4,000 square feet and consists of 32 partitions divided into a depth of 250 feet.

The ground source heat pump system was constructed in an open quarry area that had been previously disturbed. DOE has determined that no wetlands, floodplains or coastal waters were affected by the installation. Using the Illinois Department of Natural Resources online Ecological Commerce Assessment Tool (ECAT), the reviewer determined that there is no record of state-related treatment or underground storage tanks (USTs) in the vicinity of the project location. Noxious plants, animals, or other species are not reported in the vicinity of the project location.

The system was designed by a company specializing in geothermal systems. Installation was directed or supervised by a certified UST/A installer according to UST/A requirements. Erosion control was in place during the installation, and the area in question will give upon completion. The project was in compliance with all applicable state, federal, and local laws, ordinances, and regulations and all required licenses, permits, etc. have either been obtained.

DOE is aware that the installation of the geothermal well field is complete. A post-construction site visit was conducted on June 18th, 2010 by personnel from the DOE Golden Field Office to inspect the project and assess potential environmental impacts from the project construction. Through a inspection of the installed geothermal system, it is concluded that there were no adverse impacts to the site or the surrounding area. The geothermal system was installed as described by the information above.

After a thorough review of the submitted information and a post-construction site visit, it has been determined that the project has not had a significant to human health and the environment. Based on the information obtained from the site visit, the work outlined is consistent with activities identified in Categorical Exclusion B2.1.