PMC-EF2a

(2.04.02)

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

RECIPIENT: Hiawatha CUSD #426 **STATE:** IL

PROJECT TITLE : Hiawatha CUSD #426 Part II

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA0000052	EE0000119	GFO-10-349	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 $100,000 in Recovery Act funds to the Hiawatha Community Unit School District #426 to install a ground source heat pump system at the high school. The system will replace the existing HVAC components at the school and permit individual classroom control of temperature, heating, and cooling. Existing unit ventilators and perimeter heating elements, including controls, will be replaced by the new equipment.

The proposed ground source heat pump system will be a 100-ton closed loop, vertical system. The well field will have approximately 70 boreholes drilled to a depth of 450ft. The boreholes are not expected to come in contact with groundwater. The drilling will be performed by a state licensed and/or certified driller who will be required to follow IGSHPA and NWGA guidelines and design standards for geothermal installations. The boreholes will be grouted with a thermally enhanced bentonite grout designed to withstand cracking from temperature changes, use high density polyethylene pipe that is heat fused at the joints to minimize the risk of leaks, and use a non-toxic mixture of propylene glycol and potable water as refrigerant. Installation of the system will require excavation. Upon completion of the installation, the area will be returned to original conditions via soil compaction, seeding, and other general restoration measures. There are no floodplains or coastal zones in proximity to the proposed site. The nearest wetland is 0.25 miles from the site.

In view of the information provided by the State and recipient, the work outlined is consistent with provisions identified in Categorical Exclusion B5.1 "actions to conserve energy."

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 $100,000. Unless there is a significant change in scope, a change in funding will not affect my determination.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 4/28/10

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