

PMC-EF2a

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



(20402)

RECIPIENT: EESI

STATE: TN

PROJECT TITLE : Tennessee Energy Efficient Schools Initiative Ground Source Heat Pump Program (Phase 2 and 3 for Lawrence Public and South Lawrence)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-EE0000116	DE-EE0003007	GFO-0003007-002	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.
- 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:

Tennessee Energy Efficient Schools Initiative GSHP Program proposes to install a series of Ground Source Heat Pumps which will service; Brainerd High School, South Lawrence Elementary, Lawrence Public High School, Bolivar High School. Phase 1 for all four schools was approved by GFO-10-294 on March 23, 2010.

This NEPA Determination is specific to Phase 2 and 3 for Lawrence Public High School and South Lawrence Elementary only. These schools had used their own finances to previously install a horizontal loop field adjacent to their facilities within the contiguous school property. Any new soil disturbance would be limited to the trenching required for the schools to connect the existing loop field to the hybrid heat exchanging systems.

Phase 2 of the project includes only the equipment purchases, installation, commissioning, and cost reporting for two hybrid heat exchanger systems which would tie in the existing loop field to both the existing HVAC system and boiler. The heat exchanger system would provide for a combination of rooftop units, interior vertical or horizontal units and console type units. Phase 3 consists of data collection and project reporting.

Funds associated with Phase 2 and Phase 3:**Task 2.1/2.2, Installation & Equipment:**

- South Lawrence: \$246,673 (DOE), \$173,586 (Cost Share)
- Lawrence Public: \$246,673 (DOE), \$171,884 (Cost Share)

Task 2.3, Commissioning:

- South Lawrence: \$94,741 (Cost Share)
- Lawrence Public: \$96,443 (Cost Share)

Phase 3: \$93,000

Silt fencing and/or other protective devices would be used per state guidelines for all ground disturbing activities. These areas are already highly disturbed from the development of the school grounds. The sites are not located in or near a floodplain or wetland. The sites would be restored to previous grade and the area would be replanted with grass after construction. Exact requirements for erosion control will be determined by the design engineer prior to any construction and will comply with all federal, state and local requirements.

The actions involved with the proposed projects are consistent with activities as outlined in CX A9 and B5.1. After a review of the information provided, it has been determined that the project as outlined above will not have a significant impact on human health and/or environment; therefore, they are categorically excluded from further NEPA review.

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/NSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:

Phase 2 and Phase 3 for Brainerd High School and Bolivar High School

This restriction does not preclude you from:

Phase 2 and Phase 3 for Lawrence Public High School and South Lawrence Elementary

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.

Insert the following language in the award:

You are required to:

Silt fencing and/or other protective devices shall be used per state guidelines and the sites will be replanted with grass or other native vegetation after construction.

Note to Specialist :

EF2a prepared by John Jediny/Casey Strickland

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



NEPA Compliance Officer

Date: _____

6/28/2011

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: _____