PMC-EF2a

(2.04.02)

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

RECIPIENT: County of Knox, Tennessee **STATE:** TN

PROJECT TITLE : EECBG Program: Knox County Tennessee ARRA-EECBG (S)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0002315		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:

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.

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.

A11 Technical advice and planning assistance to international, national, state, and local organizations.

Rational for determination:

The following activities are included in Knox County's Statement of Work (SOW) and are therefore categorically excluded from NEPA:
- Activity #1 (revised) Knox County Traffic Signal Retrofit

The following activities fall outside the bounds of the County's signed SOW and were included in Knox County's signed SOW and are categorically excluded under NEPA:
- Activity #2 Knox County Solar Thermal Hot Water Project. The County would install a solar thermal system to provide hot water at the Knox County Detention Center located at 5109 Maloneyville Road, Knoxville, TN 37918. The solar thermal system would consist of a total of 300 solar panels distributed among four separate solar arrays. The arrays would be installed along the north, south, east, and west sides of the facility, within the existing security fence which encloses approximately 8 acres. Each array location would have an associated water storage tank that would range in size from 2,000 to 4,000 gallons. Water tanks would also be located within the perimeter of the facility. Associated pumps and plumbing would be installed to connect the arrays with the tanks and the facility.

Installation of the facility would result in a significant reduction in natural gas consumption associated with water heating at the facility (estimated $57,015 savings in year 1). This activity is therefore categorically excluded under NEPA under CX A11 (Technical advice and planning assistance) and CX B5.1 (Actions to conserve energy).

- Activity #3 Project Administration. The County would utilize EECBG funds for direct administration of the grant, including financial management oversight, project monitoring and oversight, and assuring all other grant requirements are met. The activity is categorically excluded under NEPA under CX A9.

Activities that fall outside the bounds of the County's signed SOW, other than activities 2 and 3 described above will require a separate DOE NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Insert the following language in the award:

You are required to:
With respect to project activities that fall outside the bounds of the County's signed SOW:

- The recipient shall ensure the safety and structural integrity of any repair, replacement, installation, construction, and or alteration performed under this activity.

- The recipient has the affirmative responsibility to comply with Section 106 of the National Historic Preservation Act (NHPA). If applicable, the City must contact the State Historic Preservation Office (SHPO) and the Tribal historic Preservation Office (THPO). Supporting documentation will be reviewed by the DOE as part of its post-award monitoring.

- Prior to the expenditure of Federal funds the recipient has the affirmative responsibility to ensure that it has a waste management plan addressing waste generated by their proposed actions. The plan will describe the plan to dispose of any sanitary or hazardous waste, e.g. construction and demolition debris, old light bulbs, lead ballasts, piping, roofing materials, discarded equipment, debris, packaging materials, asbestos, etc. generated as a result of the proposed project. The recipient must ensure that it will comply with all federal, state and local regulations for waste disposal.

Note to Specialist :

The County's signed SOW refers to Activity #1 Knox County Energy, Sustainability and Efficiency Project. This was the County's original EECBG activity with their initial award. The prepared EF1 explains that the County is modifying their award, will NOT be implementing Activity #1 as originally proposed, and is allocating their funds towards 3 new activities:

- Creation of a new activity to be shown as Activity 1 - Knox County Traffic Signal Retrofit ($195,273). THIS IS A NEW ACTIVITY #1
- Creation of a new activity to be shown as Activity 2 - Knox County Solar Thermal Hot Water Project ($1,883,440)
- Creation of a new activity to be shown as Activity 3 - Administration ($46,687)

These three new activities are addressed by this NEPA determination.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 4/23/10
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