

PMC-EF2a

(2.04.02)

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



RECIPIENT: Kadlec Medical Center

STATE: WA

PROJECT
TITLE : Energy Efficiency

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
		GFO-10-593	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.
- B2.2** Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

Rational for determination:

Washington Department of Commerce will provide \$2,000,000 in Recovery Act funds to Kadlec Regional Medical Center to implement a number of energy efficiency (EE) and renewable energy (RE) measures at the Center. The Center is located at 888 Swift Boulevard, Richland, WA. The State has signed the SEP Template, the provisions of which address most of the work to be performed.

The project includes renewable energy solutions, heat recovery energy solutions, capacity planning and recovery, improved space utilization, diversity creation, code compliance and a multitude of energy equipment reconfiguration and replacement for improved life, safety and efficient operations. Specifically, the EE and RE measures include the following:

- Installation of a 600-ton heat recovery/heat pump chiller to replace an existing chiller (EE Measure),
- Installation of a rooftop solar thermal domestic water heating system (RE Measure - Template),
- Installation of a 20kW solar photovoltaic array (RE Measure - Template),
- Installation of a 5kW vertical axis wind turbine (RE Measure - Template),
- Heating plant optimization and heat recovery (EE Measure),
- Low Pressure Heat plant conversion to high efficiency hot water (EE Measure),
- Lighting retrofits (EE Measure - Template),
- Control system optimization (EE Measure),
- Central Processing Unit upgrades (EE - Measure), and
- Cooling plant upgrades (EE Measure).

Completion of the work is expected to result in a 30 percent reduction in energy consumption.

The EE-related measures will be conducted within the confines of the medical facility building. The EE facility operation measures address replacement of old, inefficient and ineffective parts and equipment with new high efficiency parts and equipment; and optimization of steam and chiller plant systems through equipment upgrades and controls. The EE work will not increase the footprint of the Center. The replaced parts, material, and equipment will be sold as salvage or discarded in an approved landfill.

The RE work involves the construct of a 20kW, ground-mounted solar array and 5kW wind turbine. Both systems are to be roof-mounted. These RE installations fall within the guidelines of the State-signed SEP Template.

In view of the information provided by the State and recipient, DOE has determined that the work outlined is consistent with activities identified in State-signed SEP Template and 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 the project is \$2,000,000. Absent a significant change in the scope of this effort, a change in funding will not affect my determination.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____
NEPA Compliance Officer

Date: 8/26/10

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: _____