PMC-EF2a

(2.06.02)

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

RECIPIENT: Oregon Department of Energy **STATE:** OR

PROJECT TITLE : Oregon Energy Efficiency and Conservation Block Grant - Formula-EECBG: pumping/irrigation

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000013	DE-EE0000926		EE0

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 Oregon Department of Energy will be using EECBG funding to conduct seven wastewater, pumping, and irrigation efficiency improvements at the following locations: Jefferson County ($27K); City of Winston ($240K); City of Redmond ($594K total); Town of Lakeview ($115.5K); and City of Silverton ($23.676K).

Activities for each location are as follows:

*The City of Redmond is proposing to replace 12 older, less energy efficient and subject to clogging, submersible pumps currently located in their existing wastewater collection lift stations. They will also replace a control panel, with one that utilizes variable frequency drives. This will reduce power consumption at these locations annually by 8,237kWh.

*The City of Redmond is proposing to replace one 23 year old 600hp pump at their Freshwater Well Field with an energy efficient variable frequency drive pump system. Current conditions and electrical systems will not change from these equipment upgrades. Work will be completed by City Staff and will meet all City Standards.

*The City of Redmond is proposing to replace an aged positive replacement blower with a modern and efficient turbo blower for their existing aerobic digester located at the Redmond Wastewater Treatment Facility. Replacement of this blower will save up to 98,000+ kWh per year for the facility.

*The City of Redmond is proposing to replace four pumps currently used for irrigation of reclaimed wastewater at their Water Pollution Control Facility with new and efficient models. Design and current conditions will not change at the site and installments will comply with City and State standards.

*The City of Silverton is proposing to replace their High Level Pump #2 at their Silverton Freshwater Treatment facility with a new 60 horsepower premium efficiency pump. Replacement of this pump will save up to 55,674 kWh per year. Current conditions and electrical systems will not change from this activity.

*The Town of Lakeview is proposing to replace the pumps at four pumping stations at their town sewage pumping system. Current equipment is approximately 30 years old and less than 60% efficient. Current conditions and electrical systems will not change from this activity.

*Jefferson County is proposing to install an underground park irrigation system to water the open grass field at their County RV Park. The site is a 1.8 acre open space, mowed lawn park setting adjacent to the RV parking. The current watering system is a 3" pipe above ground system that is moved manually up and down the field, resulting in poor

coverage or excess pools of wasted municipal water. This current system used .35 acre/ft every 12 hours while the proposed system will only use .15 acre/ft. Work will be conducted by the county or contracted out.

Per the Oregon Department of Energy all project activities will involve replacing with more efficient equipment that involves Variable Frequency Drives and/or equipment that has been determined to be more appropriately sized for the associated workload and subsequently results in a reduction in energy use and/or water conservation. Replaced equipment will be re-used in a location that is more suitable for the equipment (i.e. appropriate size), including the possible sale of that equipment to another entity or, if the equipment is beyond its useable life, it will be recycled while adhering to all related regulations associated with recycling of this equipment.

The City of Roseburg irrigation pumping project is an unallowable project under the EECBG program; therefore is not being reviewed under NEPA

Activities under this sub-award comprise "actions to conserve energy"; therefore a CX B5.1 applies.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 4/19/10

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