PMC-EF2a

(2.04.02)

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

RECIPIENT: County of Sacramento **STATE:** CA

PROJECT TITLE: Activity 8

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000013	De-EE0000900		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.

Rational for determination:

The County of Sacramento proposes to use EECBG funding for the e design, purchase and installation of a 1 (one) Megawatt generator to complete a Cogeneration power system to serve the new $1.1 billion central terminal complex at Sacramento International Airport which is already under construction. The Cogeneration Facility (COGEN) utilizes a single engine, 1 (one) Megawatt, Lean Burn Low NOx Natural Gas-fired reciprocating engine cogeneration plant with hot water heat recovery. This allows for local generation of a significant portion of the required base electrical load, eliminating the line loss and other inefficiencies associated with transmitting this power from a remote site. As a by-product of electricity production, the waste heat from the generator is utilized to provide both heating and cooling via a heat exchanger and an absorption chiller. This heat would ordinarily be dissipated into the atmosphere and wasted. As part of this project, the Sacramento County Airport System will also acquire and appropriate heating, ventilation and air conditioning (HVAC) controls designed to maximize the efficiency of the COGEN facilities. Historically, the airport has experienced numerous grid power outages requiring operation of diesel-fueled back-up generators for extended periods. The COGEN project will be an efficient combined heat and power (CHP) solution that will provide uninterruptable power to the new terminal instead of obtaining power from the regional electrical grid. The COGEN project will eliminate the need to rely on standby diesel-fueled emergency generators, thereby substantially reducing overall emissions of ozone-forming nitrogen oxides and diesel particulates. Further, excess heat from the COGEN facility will be used to feed the airport's chiller system, thereby reducing the overall energy demand for air conditioning.

The new terminal was analyzed in an Environmental Assessment (EA) "Terminal Modernization Project, Sacramento International Airport" prepared by the Federal Aviation Administration and a Finding of No Significant Impact (FONSI) for the new terminal construction was issued on April 7, 2008. Installation of the COGEN facility was not considered under that EA, but did not require further analysis by the FAA under NEPA as it did not result in the need for changes to the Airport Layout Plan. The COGEN facility received a California Environmental Quality Act (CEQA) "notice of exemption" determination per Section 15301 by the Lead Agency (County of Sacramento) on February 6, 2009.

All potential environmental impacts from construction of the new terminal facility were analyzed under the FAA's EA. Installation of a COGEN facility within the that new terminal already under construction will not result in any adverse environmental affects, therefore, is categorically excluded under NEPA under B5.1 (Actions to Conserve Energy). DOE has made a final NEPA determination on this activity.

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: 4/1/10
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