

PMC-EF2a

(2.04.02)

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



RECIPIENT: City of Anaheim

STATE: CA

**PROJECT TITLE :** EECBGARRA Anaheim Convention Center Green Roof

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE0000861.001		EEO

**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 City of Anaheim, California proposes to use \$144,925 of EECBG funding to implement a green roof at the City of Anaheim Convention Center. DOE funds will primarily be used for project design and installation of the green roof.

The existing size of the Convention Center roof totals approximately 3,7000 square feet (sf). Based on an evaluation and instructions provided by a building engineer, the total area of green roof cannot exceed 2,018 sf (approximately 55%). Designs for the green roof project its completed size to encompass a total of 1,500 sf which is less than the approved total area coverage provided by the building engineer. No structural alterations will be made to the existing roof structure.

Plant communities will be made up of various types of Sedum groundcover. The vegetative mat will be 1" thick. The space beneath planted vegetation will include products such as filter fleece, drain system membrane, protection fleece and a roof member layer. Total depth of the green roof will be between 4-5". Irrigation will be supplied from existing water valves on the roof surface and from natural precipitation.

The Anaheim green roof creates a positive environmental impact. The vegetation will reduce stormwater runoff which otherwise would collect and deposit pollutants. Thus, the green roof would reduce energy associated with stormwater treatment. The green roof also causes evapotranspiration which reduces the heat generated from mass in buildings thus helping reduce the heat island effect in the Anaheim area.

Based on the above information this activity is categorically excluded under CX number B 5.1, Actions to Conserve Energy.

**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:   
NEPA Compliance Officer

Date: 5/13/10

**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: \_\_\_\_\_