

PMC-EF2a

(2.04.02)

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



RECIPIENT: County of Anne Arundel

STATE: MD

PROJECT TITLE : EECBG Pascal Senior Center Energy Efficiency Project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000013	DE-EE0000739	GFO-0000739-004	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:

Ann Arundel County, Maryland proposes to use \$1,052,060 of EECBG funding for their proposed Activity #2: Pascal Senior Center Energy Efficiency Project, Ground Source Heat Pump. The project plans and specifications are being prepared and all work will be completed in accordance with IGSHS Association and NGWA requirements. The total geothermal heat pump system tonnage is 75 tons and consists of a geothermal closed ground-loop serving one nominal 80-ton scroll water chiller and one nominal 80-ton heat-reclaim scroll water heater. Two 232 gpm pumps serve the closed ground-loop system, two 120 gpm pumps (w/ VFDs) serve the chilled water system and two 62 gpm pumps serve the hydronic hot water system. Pumps are arranged in a primary/standby configuration. The system will require 45 bore holes/drilled wells with ground loops and be limited to the use of propylen glycol. The heating/cooling elements will be limited to the use of potable water.

The geothermal well field portion of the installation will be located beneath the existing parking lot. All concrete within the parking lot will be torn up, reduced, and disposed of in accordance with the recipient's current Ann Arundel County Wastestream Permit. The buildings involved with the proposed geothermal HVAC upgrade were built less than 40 years ago. The proposed project location is in a highly developed/populated area and therefore, there are not expected to be any adverse effects to threatened and endangered species, wetlands, floodplains, or cultural resources as a result of the proposed project as these resources do not exist at the project site.

After a thorough review of the information submitted for the proposed project, it has been determined that the actions involved will not have a significant impact to human health and /or the environment. The proposed project will result in a reduction in the use of conventional fossil fuels; therefore it is hereby Categorical Excluded B5.1 "actions to conserve energy," from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Completed by Bill Knapp

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 11/1/10

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: _____