PMC-FF2a

(2,04,02)

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



RECIPIENT: Oklahoma Department of Commerce

STATE: OK

PROJECT TITLE:

EECBG City of Woodward, OK GSHP Project Beyond State Template

Funding Opportunity Announcement Number DE-FOA-0000013

Procurement Instrument Number DE-EE0000922

NEPA Control Number CID Number GFO-0000922-007

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 Woodward is proposing to use EECBG ARRA funding to install a ground source heat pump system that will serve the heating and cooling needs for the new Woodward Conference Center. The ground source heat pump system will be a vertical, closed loop system with a capacity of 34 tons. There will be 40 boreholes needed covering 10,000 square feet. The state certified and licensed driller will follow IGSHPA and NGWA regulations during installation. The system will use HDPE piping that is heat fused and all wells will be fully grouted with a thermally enhanced bentonite grout. The refrigerant used in the system will be a non-toxic, food grade propylene glycol and water mixture. A notice of intent for storm water discharges associated with construction activity on sites of one acres or more has been submitted to the Oklahoma DEQ. Authorization to discharge from the site will be under the Oklahoma Pollutant Discharge Elimination System Act (OPDES) and a Storm Water General Permit for Construction Activities, Permit No. OKR10. A Storm Water Pollution Prevention Plan has been prepared for the construction site and is available at the construction site and at the Engineer's office. The wellfield site will be graded and incorporated into the landscaping for the new conference center.

The geothermal well field portion of the installation will occur in an area that has been cleared and graded as part of the recent construction of the Woodward Conference Center. This area was previously actively used pasture land. The area surrounding the proposed project location is expanding residential development and active agricultural land. 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 for the environment. The proposed project will result in a reduction in the use of conventional fossil fuels; therefore it is hereby Categorically Excluded B5.1 "actions to conserve energy," from further NEPA review.

NEPA PROVISION

Note to Specialist:

EF-2a completed by Logan Sholar

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

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NEPA Compliance Officer	Date:	
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Field Office Manager	Date:	
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