PMC-EF2a

(2.04.02)

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

RECIPIENT: Minnesota Municipal Power Agency **STATE:** MN

PROJECT TITLE : Cutters Grove, Anoka

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0003810	GFO-0003810-CGA	

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:

A9 Information gathering, analysis, and dissemination	Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)
B5.19 Ground source heat pumps	The installation, modification, operation, and removal of commercially available smallscale ground source heat pumps to support operations in single facilities (such as a school or community center) or contiguous facilities (such as an office complex) (1) only where (a) major associated activities (such as drilling and discharge) are regulated, and (b) appropriate leakage and contaminant control measures would be in place (including for cross-contamination between aquifers); (2) that would not have the potential to cause significant changes in subsurface temperature; and (3) would be located within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

Rational for determination:

The U.S. Department of Energy (DOE) provided funding to Minnesota Municipal Power Agency under the American Recovery and Reinvestment Act of 2009 Competitive Energy Efficiency and Conservation Block Grant (EECBG). Minnesota Municipal Power Agency proposes to install a 350 ton, vertical, closed-loop ground source heat pump (GSHP) system at the existing Cutters Grove Apartment Complex.

Cutters Grove Apartment Complex is located at 2901 Cutters Grove Avenue, Anoka, Minnesota 55303. It is a 238 unit, apartment complex. It is located in an area with residential and commercial buildings. Cutters Grove has a residential complex to the northeast and south, a commercial complex to the east, wetlands to the northwest and a park space on the Mississippi to the west of the property. The construction could cause temporary disturbance to traffic patterns in the area, and the noise level would increase from the temporary drilling activity. These are considered to be minor disruptions and would not have a significant impact on human health and environment.

The total area of disturbance for the well field would be 78,800 square feet (approximately 1.8 acres). The trenching would be performed in the parking lots and sodded grass areas around the complex. All trenching required for the supply and return lines running from the well field to the geothermal heat exchange equipment and between the wells themselves would be backfilled and would meet State of Minnesota mandated specifications for site and soil restoration. Approximately 2,400 cubic yards of soil would be excavated, including the horizontal trenching required to connect the well field to the building mechanical system. Erosion control and storm water management plans would be implemented at the proposed site. The site would be restored to its previous grade and condition following the installation.

The GSHP would utilize a 25% or higher ratio of food-grade propylene glycol to water as an anti-freeze solution. Installation of the wells would follow Minnesota Department of Health rules/procedures and International Ground Source Heat Pump Association (IGSHPA) installation standards. The drilling contractor is IGSHPA certified.

The Minnesota State Historic Preservation Office has reviewed the project and in a letter dated June 18, 2012, concluded that "no properties listed in or eligible for the National Register of Historic Places will be affected by this project." The U.S. Fish and Wildlife Service Endangered Species Program website does not identify any species in Anoka County, Minnesota. The proposed project is located adjacent to a 100-year floodplain and wetlands. The project is prohibited from placing any equipment, laydown, and performing any work in the adjacent floodplain and

wetland. Project work is required to occur on previously disturbed ground that is not within either a floodplain or wetland area.

Based on review of the project information and the above analysis, DOE has determined the installation of the proposed 350 ton GSHP would not have a significant impact to human health and/or environment. DOE has determined the proposed project is consistent with the actions contained in A9 "Information gathering, analysis, and dissemination" and B5.19 "Ground source heat pumps", and is categorically excluded from further NEPA review.

Any further projects will require a separate NEPA determination review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Diana Scott 7.23.2012

DOE Funds: $1,543,024
Leveraged Funds: $1,543,024
Total Project Cost: $3,086,047

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 7/31/2012
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