

PMC-EF2a

(2.04.02)

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



RECIPIENT: Minnesota Department of Commerce, Office of Energy Security SEP ARRA
EE0000164

STATE: MN

PROJECT TITLE : SEP Residential Ground Source Heat Pump Installation - Korf

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE FOA 0000052	EE00000164	GFO-10-623	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:

MN SEO will give \$9,820.65 to Mark Korf for a 7 ton ground source hat pump system with a vertical loop field. The excavation consisted of 8 vertical wells installed to a depth of 140'. Total excavation was 20' W x 120' L x 8' D. No deforestation was needed for this project. There were 8 vertical boreholes drilled. The MN Dept of Health, County Well Index provides a record of well logs. According to a review of well logs in the vicinity of the site, groundwater ranges from 130 to 170 feet.

No wetlands or flood plains or coastal zones were affected. All maps are attached to this EF1.

SHPO concluded that no historic properties listed on or eligible for the National Register of Historic Places will be affected by the project. The letter is attached.

The MN GSHP Rebate program requires contractors to be licensed and/or bonded as applicable under state or local requirements. All electrical work must be performed by a licensed electrician working for a licensed electrical contractor. The contractor on this project, Stellar Heating, states that their installers are IGSHPA-certified.

The City of Woodbury, MN requires a permit for the installation of the GSHP system and that permit is attached to this EF1. MN Dept of Health requires a permit for the construction of a vertical heat exchanger and that permit is also attached to this EF1.

DOE is aware that this project has been completed and has determined that there were no significant impacts to human health and/or environment. Therefore this project has been Categorical Excluded under B5.1 "Actions to Conserve Energy".

NEPA PROVISION

Note to Specialist :

This EF-2A was completed by Logan Sholar on 9-20-10

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



NEPA Compliance Officer

Date: _____

9/21/10

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: _____