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:

Residential Ground Source Heat Pump Installation-Staus

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number

DE FOA 0000052

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:

Minnesota SEO will give \$6,965 to Richard Staus to install a 7 ton geothermal system with horizontal excavation containing 600ft of slinky loop heat exchange piping. The exacavation will consist of 7 trenches. No deforsesting is necessary for project and the residence located adjacent to the loop field was constructed in 1987. No boreholes are required for this system as it is horizontal loop field.

No wetlands or flood plains or coastal zones will be affected. All maps are attached to this EF1. If groundwater is encountered the loop field will be moved to another area. The system will be installed directly adjacent to a residence on land that is regularly maintained. There are not expected to be adverse effects to threatened and endangered species as a result of the proposed project.

All information has been submitted to the local SHPO in the State of MN. The SHPO review determined no historical impact. This letter is attached.

There are no permits required for this installation.

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. This particular installer for this job is IGSHPA-certified. The waste management plan can be found in the EF1.

DOE has concluded that this project does not pose a significant impact to human health and/or environment. Therefore this project has been Categorically Excluded under B5.1 "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.

NEPA Compliance Officer Signature:	Kristin Kerwin	Date: _	9/15/2010
ARRA STATE	NEPA Compliance Officer		
FIELD OFFICE MANAGER DETERMINA	TION		
☐ Field Office Manager review required			
NCO REQUESTS THE FIELD OFFICE MA	NAGER REVIEW FOR THE FOLLOWI	NG REASON:	
Manager's attention	sclusion but involves a high profile or controv		
Proposed action falls within an EA or EIS	category and therefore requires Field Office N	Manager's review and	determination.
BASED ON MY REVIEW I CONCUR WIT	H THE DETERMINATION OF THE NCC):	
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Field Office Manager's Signature:			