

PMC-EF2a

(2.04.02)

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



RECIPIENT: WV Division of Energy

STATE: WV

PROJECT TITLE : Buckhannon City Hall Geothermal HVAC ARRA-EECBG

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-EE0000838			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:

The Town of Buckhannon is retrofitting their City Hall building by replacing the existing rooftop heating and air conditioning units with a Geothermal Rooftop Unit coupled with a 22 ton, vertical, closed-looped GSHP system to be installed in the City Hall's parking lot. The new rooftop unit will be similar in size and appearance to the existing units, therein by maintaining the structural integrity of the building. No exterior construction to the building will be required other than connecting the geothermal supply and return lines into the building through an existing crawl space and into the basement. There will be 22 vertical boreholes installed in the side driveway and rear parking lot, the boreholes will be installed to a depth of 180-200 ft. Every borehole will be completely encased with thermally enhanced bentonite grout protecting against thermal cracking which could lead to surface to ground water contamination. The GSHP system will be installed with HDPE piping, the system will be installed, heat fused, and pressure tested per the IGSHA guidelines. The site will be repaved; no visible changes will be made to the parking lot. This parking lot was previously excavated for utility construction, re-graded and paved in 1998 when Buckhannon City Hall was renovated. While the building was renovated in 1998, the grantee has been actively coordinating with the SHPO regarding this project. The heat exchange fluid will be Intercool, an Inhibited Propylene Glycol. There will be two permits required for the proposed project. The first is a permit from the Local Health Department to drill water wells. This permit will be obtained by the well driller. The other permit is a stormwater/runoff permit from the City of Buckhannon. This permit establishes best management practices and protocols for inhibiting water runoff and sedimentation during and after construction and provides for land restoration measures in accordance with City ordinances. Waste materials from the drilling (water and cuttings) will be confined within the site and the sediment hauled off to the local landfill and the water discharged into the storm water collection system on site. There are no groundwater wells in the vicinity of the site. The City of Buckhannon supplies potable water to Buckhannon and Upshur County from the Buckhannon River with the intake being about 2 miles upstream from this site.

DOE has determined that this project does not pose a significant impact to the human health and/or environment. This project is therefore Categorical Excluded from further NEPA review 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:

Insert the following language in the award:

You are required to:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Recipient shall ensure the safety and structural integrity of any repair, replacement, construction and/or alteration performed under this project.

Prior to the expenditure of Federal funds the recipient has the affirmative responsibility to ensure that it has a waste management plan addressing waste generated by their proposed actions. The plan will describe the plan to dispose of any sanitary or hazardous waste, e.g. construction and demolition debris, old light bulbs, lead ballasts, piping, roofing materials, discarded equipment, debris, packaging materials, asbestos, etc. generated as a result of the proposed project. The recipient must ensure that it will comply with all federal, state and local regulations for waste disposal.

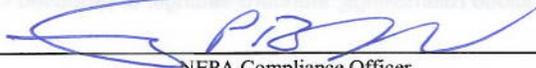
NHPA Requirements

Prior to the expenditure of Federal funds to implement the above activity, the recipient has the affirmative responsibility to ensure compliance with Sec. 106 of the National Historic Preservation Act (NHPA). Section 106 applies to historic properties, districts, etc... that are listed in or eligible for listing in the National Register of Historic Places. Supporting documentation will be reviewed by the DOE as part of its post-award monitoring.

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:  Date: 7/7/10
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