PMC-EF2a
(2.04.02)

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

RECIPIENT: Riverheath **STATE:** WI

PROJECT TITLE : RiverHeath: Neighborhood Loop Geothermal Exchange System: Technology Demonstration Project

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000116	DE-EE0003005	GFO-0003005-002	GO3005

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:

RiverHeath LLC (RiverHeath) proposes to use DOE and cost share funding to develop and demonstrate geothermal resource on private property that is a reclaimed Brownfield industrially zoned located in the SW, SW of Section 25, Township 21 North, Range 17 East, City of Appleton, Outgamie County. This project was previously approved by GFO-10-304 on 4/27/2010 with a CX A9, and C12. After reviewing additional information provided by the recipient, DOE is modifying that determination. RiverHeath is proposing to install over 10,000 sq ft of river-bed based closed looped heat pumps to service the redevelopment of an existing Brownfield site. The redevelopment area consists commercial subdivides, the project would occur underneath the boardwalk of the redevelopment area. The project was led by Wisconsin's Dept. of Natural Resources (DNR); DNR is the agency responsible for the redevelopment of this area and all Brownfield sites for the state of Wisconsin. The project is divided into five tasks:

Phase 1: Incorporate River Based Geothermal Exchange Design Into Final Design Plan
Task 1.0 Revise Architectural Drawings

Phase 2 Regulatory Review
Task 2.0 Confirm Regulatory Status
DNR issued a Chapter 30 Permit on October 3, 2008, and a Notice of Complete Application (IP-NE-2010-45-00817) on April 19, 2011, permitting the project to move forward. The United States Army Corps of Engineers concurred with the DNR in a General Permit issued October 15, 2008. The City of Appleton approved the Implementation Plan and Development Agreement on July 15, 2009.

Phase 3: Raise Capital
Task 3.0 Complete loan Process

Phase 4: Construction of Primary Structure and Geothermal Exchange System
Task 4.0 Primary Structure Construction and Associated Site work

Phase 5: Data Collection, Reporting and Marketing

RiverHeath has consulted with SHPO and received a determination of no effect on 7/12/2011. According to the US Fish and Wildlife Service on May 26, 2011, there are no expected adverse effects to threatened and endangered species. Furthermore, according the data gathered by DOE, there are no adverse effects to wetlands, floodplains, or cultural resources as a result of the proposed project.
The DNR Notice of Complete Application (IP-NE-2010-45-00817) on April 19, 2011required a 30 day public comment period. The comment period began April 25, 201, when a notice was published in the Post Crescent newspaper in

Appleton, Wisconsin for the public to review. No comments were made.
After a thorough review of the information submitted for the proposed project, it has been determined that the proposed action will not have a significant impact to human health and/or 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

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

This EF2A was written by Christopher Carusona II
C12 GFO-10-304 is no longer needed.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____ Date: 8/3/11
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