PMC-EF2a

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



RECIPIENT: University of Hartford

STATE: CT

PROJECT

TITLE:

Development of a Software Design Tool

Funding Opportunity Announcement Number DE-FOA-0000116

Procurement Instrument Number NEPA Control Number CID Number DE-EE0002804

GFO-10-190

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 (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.

Rational for determination:

The University of Hartford is proposing a project to "develop a stand-alone software tool for the design and economic analysis of hybrid geothermal heat pump systems for heating- and cooling dominated buildings using solar collectors in both operating modes. An economic analysis module will be included in the software tool based on a methodology for direct capital cost comparisons and allow for simple payback and life-cycle cost analyses to be performed to aid design engineers in their decision-making process in evaluating GHP systems".

Project tasks include the following:

- * Implementation of Computational Algorithms
- * Development/Integration of Borehole Resistance Computation Modules
- * Development of Synthetic Load Generator
- * Integration of Weather Database
- * Integration of Solar Collector Product Database
- * Development of Graphical User Interface, alpha and beta Testing
- * Development of Help Files & User Manuals Including Tutorials
- * Final Report/Paper/Software

This project involves information gathering only; therefore a CX A9 will apply.

NEPA PROVISION

Note to Specialist:

None Given.

SIGNATURE OF THIS MEMORAN	DUM CONSTITUTES A RECORD OF THIS DECISION.		1 1
NEPA Compliance Officer Signature: _	NEPA Compliance Officer	Date:	3/9/10

FIELD OFFICE MANAGER DETERMINATION

☐ Field Office Manager review required

Manager's attention.	ategorical exclusion but involves a high profi	ile or controversial issue that warrants	Field Office
☐ Proposed action falls within ar	EA or EIS category and therefore requires F	Field Office Manager's review and dete	ermination.
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BASED ON MY REVIEW I CON	ICUR WITH THE DETERMINATION OF	FTHE NCO:	
Field Office Manager's Signature:	F. 11005 M	Date:	: AJIT
	Field Office Manager		