PMC-EF2a

(2,04,02)

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



RECIPIENT: ENVIRON Holdings Inc

STATE: NJ

PROJECT

TITLE:

: Optimal Ground-Source Heat Pump System Design

Funding Opportunity Announcement Number

Procurement Instrument Number NEPA Control Number CID Number

DE-FOA-0000116

DE-EE0002801

GFO-10-185

GO2801

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 ENVIRON International Corporation is proposing "to create a new least-cost design tool ('OptGSHP') that will enable ground-source heat pump ('GSHP') developers to analyse system cost and performance in a variety of building applications (i.e., residential, commercial, government, school and universities) to aid in design as well as purchase decisions". They plan to "develop a least-cost design tool (OptGSHP) which combines GSHP-specific interfaces of existing HVAC software design tool with groundwater flow and heat transport modeling software allowing the modeling of vertical, and pond/lake loops in different climate zones and building types in the presence of groundwater flow".

Project tasks include the following:

*Building and running models and simulations to improve the GSHP loop design by increasing its reliability and performance with lower cost.

*Final reports and research paper and analysis of the results for the NGDS

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

NEPA PROVISION

Note to Specialist:

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.	*	11	
NEPA Compliance Officer Signature: NEPA Compliance Officer	Date: _	3/9/10	_
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 l	EA or EIS category and therefore requires Field	d Office Manager's review and determination.
BASED ON MY REVIEW I CONC	CUR WITH THE DETERMINATION OF T	THE NCO:
Field Office Manager's Signature:	7,1100	Date:
	Field Office Manager	
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