

PMC-EF2a

(2.0+02)

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



RECIPIENT: Florida International University

STATE: FL

PROJECT TITLE : ANALYSIS OF ENERGY, ENVIRONMENTAL AND LIFE CYCLE COST REDUCTION POTENTIAL OF GROUND SOURCE HEAT PUMPS (GSHP) IN HOT AND HUMID CLIMATE

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|--|--------------------------------------|----------------------------|-------------------|
| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
| DE-FOA-0000116 | DE-EE0002802 | GFO-10-186 | GO2802 |

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:

Florida International University is proposing a project that "will evaluate installed GSHP/HGSHP systems energy use, savings, and greenhouse gas (GHG) emission reduction potential in hot and humid climates region (FL, LA, TX, southern AL, MS, GA, NC and SC)". They will analyze utility and performance data of GSHP/HGSHP installations. The proposed project will develop a calibrated baseline and performance period models of new construction and retrofitted buildings using EnergyPlus simulation program.

Project tasks include the following:

- * Data Gathering and Analyzing
- * Cost Modeling
- * Baseline Model Development and Calibration
- * develop a tool that allows users to perform engineering economic analysis

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

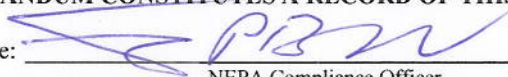
NEPA PROVISION

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:


NEPA Compliance Officer

Date:

3/10/10

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 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

PROJECT TITLE: ANALYSIS OF ENERGY ENVIRONMENTAL AND LIFE CYCLE COST REDUCTION POTENTIAL OF GROUND SOURCE HEAT PUMPS (GSHP) IN HOT AND HUMID CLIMATE

DE-FOA-000118 DE-EG000025 Treatment Technology Number: NEPA Central Number: GPO-10-188 GPO Number: GPO-10-188

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under 101 Order 4811A), I hereby make the following determination:

CX EA AIR HYBRID AND NUMBER: _____
 Location: _____

All information gathered including but not limited to, technical survey, literature, data analysis (including computer modeling, equipment evaluation such as conceptual design or feasibility studies, analytical energy audit and demand studies), and questionnaire (including but not limited to document review, question, and discussion) and site visits (including site characterization or environmental monitoring, baseline survey and monitoring program), for the project is included in the following information:

National Air Institute
 Florida International University is proposing a project that will evaluate installed GSHP/HVAC systems energy use savings and greenhouse gas (GHG) emission reduction potential in hot and humid climate region (FL, LA, TX, southern AL, MS, GA, NC and SC). They will analyze utility and performance data of GSHP/HVAC installations. The proposed project will develop a detailed baseline and performance period model of new construction and installed buildings using EnergyPlus simulation program.

- * develop a tool that allows users to perform engineering economic analysis
- * evaluate Model Development and Construction
- * Cost Modeling
- * Data Gathering and Analysis

The project involves information gathering only. Therefore, CX EA will apply.

NEPA REVIEWER: _____
 Date: _____
 Name: _____

SIGNATURE OF THE NEPA COMPLIANCE OFFICER FOR THIS DECISION: _____
 NEPA Compliance Officer Signature: _____
 Name: _____

FIELD OFFICE MANAGER DETERMINATION:

- Field Office Manager review required.

NEO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action falls within a categorical exclusion but involves high profile or controversial issue that warrants Field Office