

PMC-EF2a

(2.04.02)

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



RECIPIENT: Florida Atlantic University

STATE: FL

PROJECT TITLE : National Open-ocean Energy Laboratory

| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
|---|-------------------------------|---------------------|------------|
| 2010 CDP | DE-EE0000319.002 | GFO-10-063-001 | 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:

- B3.1** Onsite and offsite site characterization and environmental monitoring, including siting, construction (or modification), operation, and dismantlement or closing (abandonment) of characterization and monitoring devices and siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis. Activities covered include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. Specific activities include, but are not limited to:
 - 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.
 - A11** Technical advice and planning assistance to international, national, state, and local organizations.
- B3.3** Field and laboratory research, inventory, and information collection activities that are directly related to the conservation of fish or wildlife resources and that involve only negligible habitat destruction or population reduction
- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

Rational for determination:

Florida Atlantic University (FAU) proposes to use Congressionally Directed Funding through the DOE to study the energy potential of the Gulf Stream and currents off the coast of Florida. Their goals are to further the assessment of hydrokinetic and thermal ocean-energy resources off the east coast of Florida and to advance the development of those resources for commercial-scale electrical power production.

Task 1.0 Research

- Subtask 1.1 Collision remote sensing feasibility
- Subtask 1.2 Underwater observatory design & bench test
- Subtask 1.3 Scale model testing capability implementation
- Subtask 1.4 Generalize deployment capability

Task 2.0 Monitoring/Demonstration

- Subtask 2.1 Include marine mammals in remote sensing monitoring
- Subtask 2.2 Extend current monitoring array to north-south direction
- Subtask 2.3 Deploy & monitor in-house prototype to demonstrate protocols consistent with best practices
- Subtask 2.5 Programmatic environmental impact statement roadmap

Task 3.0 Education and Outreach

- Subtask 3.1 Professional Workshop/Public Forums
- Subtask 3.2 Public Outreach/Education

Task 4.0 Project Management and Reporting

This proposal comprises site characterization, indoor and outdoor laboratory work, and information gathering of a hydrokinetic energy; therefore this project is categorized as CX A9, A11, B3.1, B3.3, and B3.6

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

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Steve Blazek *CPB* Date: 8/18/2010
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