

PMC-EF2a

(20102)

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



RECIPIENT: University of Florida

STATE: FL

PROJECT TITLE : Advanced Direct Methanol Fuel Cell for Mobile Computing

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-PS36-08GO98009	DE-EE0000476	GFO-09-149 -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:

B3.6 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:

University of Florida would use DOE funding to develop a direct methanol fuel cell power supply for mobile computing. The funding would be used for all six tasks.

Tasks 1 - 5 would focus on balance of plant and packaging advances through component miniaturization and integration leading to advances in both power and energy density of the prototype power supply for portable computing. These tasks would involve systems design and validation to meet both durability targets as well as consumer electronics functional requirements. The project would involve the design, assembly of prototype small portable power sources, and testing of the whole assembly and sub assemblies in a controlled laboratory environment. Task 6 would involve project management.

This project would enable mobile computers to operate non-stop, unplugged from the wall power outlet, by using the high energy density of methanol fuel from a fuel cartridge and would specifically focus on balance of plant component integration and miniaturization, as well as extensive component, subassembly and integrated system durability and validation testing. This project's goal would be to accelerate commercialization by focusing on product durability and lifetime and durability of the core technology.

The University of Florida has supplied an R&D questionnaire which thoroughly addresses these safety, waste stream and hazardous material protocols.

This project comprises bench-scale research projects and conventional laboratory operations; therefore, this project is categorized under CX B3.6.

NEPA PROVISION

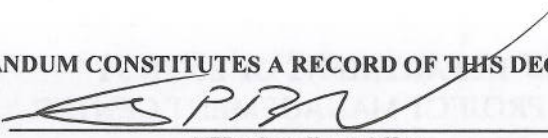
DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 1/21/10

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