

PMC-EF2a

(30402)

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



RECIPIENT: University of Southern Mississippi

STATE: MS

PROJECT TITLE : Nanostructured Materials for Improved Photovoltaics

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE0003173	GFO-10-436	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:

- 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.
- 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:

The University of Southern Mississippi proposes to use federal funding to research for improved conversion efficiency in organic photovoltaics. The University will analyze various polymeric organic photovoltaic devices for power conversion efficiency.

This project will entail synthesis of conduction block copolymers, fabrication of core-shell acceptor-donor nanoparticles, prep and analysis of core-shell nanoparticles, analysis of effectiveness of POSS nanoparticles as efficiency enhancers in conductive films, and construction of laboratory scale cells and analysis of efficiency for candidate systems.

The applicant has submitted an R & D questionnaire that thoroughly addresses chemical and safety protocols.

This project comprises of information gathering and conventional research and development within existing laboratory facilities; therefore a Catex A9 & B3.6 will apply.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 6-28-2010

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: \_\_\_\_\_

*Kyndon Lee*  
NEPA Compliance Officer

Date: \_\_\_\_\_

6/29/10

**FIELD OFFICE MANAGER DETERMINATION**