

PMC-EF2a

(2.0402)

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



RECIPIENT: University of Wisconsin-Milwaukee

STATE: WI

**PROJECT TITLE :** Advanced Nanomaterials for High-Efficiency Solar Cells

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE0003208	GFO-10-391	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:

The University of Wisconsin-Milwaukee proposes to use federal funds to advance the manufacture and fundamental understanding of hybrid nanostructure-based photovoltaic cells and hybrid nanoparticle-graphene structures for solar energy. They plan to investigate new methods for manufacturing, analyze properties of hybrid nanostructures, and to explore the uses of nanostructures for photovoltaic cells.

Project activities include low-cost manufacturing of hybrid nanostructures, characterization of physical and electronic interactions between nanoparticles and CNT/Graphene, photovoltaic cells based on hybrid nanoparticle-graphene structures, and project management and reporting.

Project work will take place indoors within the confines of the laboratory grounds. An R & D questionnaire has been submitted by the applicant which thoroughly addresses chemical and safety protocols.

This project comprises of indoor research and development activities within existing facilities and therefore a CX 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 :

None Given.

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

NEPA Compliance Officer Signature:

  
NEPA Compliance Officer

Date:

5/24/10