

PMC-EF2a

(2014.02)

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



RECIPIENT: North Dakota State University

STATE: ND

PROJECT TITLE : Center for Nanoscale Energy

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
CDP	DE-FG36-0GO88160	GFO-08-069b	GO88160

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:

North Dakota State University (NDSU) will use Congressionally Directed Funding through DOE to develop and design the fabrication of thin-film photovoltaic (PV) materials that would accelerate commercialization and cost effective manufacturing and catalysis studies of the oxidative cleavage of unsaturated compounds found in plants and applications to fuel cells.

Laboratory work will take place at the existing NDSU facilities at 1735 Research Drive, Fargo, North Dakota and 250 Dunbar Hall, 1231 Albrecht Avenue, Fargo, North Dakota; University of Toledo, McMaster Building in Toledo, Ohio; University of California, Pierce Annex Building in Riverside, California.

Each University has submitted an R&D questionnaire which thoroughly addresses established safety protocols, waste stream, and chemical handling and disposal.

The universities state that no additional permits will be needed and there would be no generation of air emissions associated with this work. Vented gas cabinets and fume hoods are used with scrubbers to prevent release of air pollutants. The universities have stated that all hazardous waste is disposed of according to university, local, state, and federal regulations. Each University has a Chemical Hygiene Plan (including nanomaterials), waste disposal, and safety protocols in place which are monitored by the each their Environmental Health and Safety Offices.

This project comprises conventional laboratory operations in established University laboratory facilities; therefore this project is categorized as CX B3.6.

NEPA PROVISION

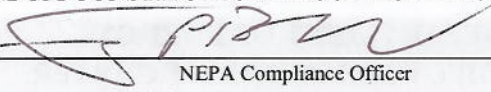
DOE has made a final NEPA determination for this award

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: 2/23/10

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: _____
Field Office Manager

Date: _____