PMC-EF2a
(2.04.02)

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-10-546	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:

North Dakota State University proposes to use federal funds to research and develop flexible photovoltaic's for high growth rate films and catalysts of the oxidative cleavage of unsaturated compounds found in plants and the application to fuel cells.

This project will be for phase 3 of the project to include broadening the original scope of research to include expanded development of phosphorus dopants, research to include utilization of cyclo-hexasilane in atmospheric-pressure plasma enhanced CVD, processing of crystalline silicon cells and related grid printing, research to include laser activated dopants, optimization of catalysis, developing the production catalysis from cellulosic biomass, scale up of polymer compositions, research and review of potential for polymers.

This project will take place within existing laboratory facilities on the North Dakota State University campus; the university has submitted an R & D Questionnaire that thoroughly addresses chemical and safety handling protocols.

This project comprises of research and development within existing laboratory facilities using conventional methods; therefore CX B3.6 applies.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 7/26/2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Kristin Kerwin Date: 7/26/2010
NEPA Compliance Officer