

PMC-EF2a

(20402)

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



RECIPIENT: Xunlight Corporation

STATE: OH

**PROJECT TITLE :** Flexible Thin-Film Silicon Solar Cells

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE0000335	GFO-10-518	GO335

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:

Xunlight Corporation proposes to use federal funding to manufacture on a large scale high-efficiency lightweight, flexible solar cells. Most photovoltaic cells are heavy and require significant labor and hardware for mounting on rooftops. These new systems that have been developed on a small scale will allow for ease of installation and enhance the performance of a solar photovoltaic system.

This project will involve development of large area roll-to-roll nanocrystalline silicon process, develop process and equipment for large area flexible modules, developing application methodologies of new designs into roofing materials, and project management and reporting.

This project will take place within existing facilities and will involve modification of manufacturing facilities from small scale to large scale; 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 :

Eugene Brown 7/16/2010

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

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

NEPA Compliance Officer

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

7/16/2010

**FIELD OFFICE MANAGER DETERMINATION**

☐ Field Office Manager review required