

PMC-EF2a

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



RECIPIENT: PPG Glass Technology Center - Glass R&D

STATE: PA

PROJECT TITLE : Next-Generation Low-Cost Reflector

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000104	DE-EE0003586	GFO-10-447	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:

PPG Glass Technology Center, Inc. proposes to use federal funding to develop and evaluate Concentrating Solar Power components and systems that could lead to the development of utility scale CSP power plants capable of generating electricity at competitive rates.

Phase 1 of this project will include design and feasibility of first surface mirror concept to include ID and testing of materials; feasibility of low soiling coating to include materials ID and testing; Design and feasibility of large-area first surface mirror reflector assembly to include demonstration and computer modeling; and quantification and costs achieved of the performance using software and compiled previous data.

Dependent on the Go/No-Go decision from quantification, phase 2 will involve first surface mirror design optimization and process development for coating materials to include testing; process development of low soiling coating design optimization to include testing; process development of large area first surface mirror design optimization to include fabrication and computer modeling; and impact quantification and cost reduction reports.

Dependent of the Go/No-Go decision impact quantification phase 3 will include process integration, process & equipment design and capital plan development, process and equipment installation & debugging, evaluation and project wrap up.

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

This project involves conventional research and development, siting and construction of indoor bench scale novel solar panel within an existing facility; therefore a Catex 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 6-29-2010

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: 
NEPA Compliance Officer

Date: 7/14/2010

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: _____