

PMC-ND

(1.08.09.13)

U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
NEPA DETERMINATION



RECIPIENT: PPG Industries, Inc. DBA Glass Technology Center - Glass R&D **STATE:** PA

PROJECT TITLE : Fabricate-on-Demand Vacuum Insulating Glazings

Funding Opportunity Announcement Number **Procurement Instrument Number** **NEPA Control Number** **CID Number**
 DE-FOA-0001027 DE-EE0006717 GFO-0006717-001

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 Small-scale research and development, laboratory operations, and pilot projects | Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment. |
| A9 Information gathering, analysis, and dissemination | Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.) |

Rationale for determination:

PPG Industries, Inc. is proposing to use DOE funding to design a fabricate-on-demand manufacturing process to overcome the cost and supply chain inefficiencies preventing widespread adoption of Vacuum Insulating Glazing units (VIG).

Project activities would involve research, modeling, developing, fabricating and testing prototype window units that use improved edge-sealing, pillar placement and gas evacuation processes. PPG industries, Inc. would partner with Oak Ridge National Laboratory to accomplish project objectives. Work would take place in existing laboratory facilities at each location. All handling and process operations would occur in-lab in accordance with proper handling and processing protocols. Existing Environmental Health and Safety (EH&S) policies, procedures, and training are sufficient to safely conduct the proposed work. No toxic or hazardous materials are anticipated for use in the project; however, both facilities have a well-established program for disposing of generated hazardous or toxic waste. The amount of materials anticipated for use is well within the current permitted and planned waste handling limits at each facility. No facilities modifications or construction are expected. Existing facilities would be used as intended. No new permits would be required to conduct the project.

For all work conducted at DOE laboratories, project activities may be subject to additional NEPA review by the cognizant NEPA Compliance Officer for the lab and will be required to meet the labs health and safety requirements.

DOE has determined that this project is consistent with actions covered under DOE CX A9 (information gathering) and B3.6 (small-scale research & development projects; conventional laboratory operations) and is therefore categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

Review completed by Logan Sholar on 8/11/14.

This NEPA determination does not require a tailored NEPA provision.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



Lori Gray
NEPA Compliance Officer

Date: 8/13/2014

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: _____

Date: _____

Field Office Manager