

PMC-ND  
(1.08.09.13)

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



**RECIPIENT:** PPG Coatings and Resins R&D

**STATE:** PA

**PROJECT TITLE :** Fluorescent Pigments for High Performance Cool Roofing and Facades

**Funding Opportunity Announcement Number** DE-FOA-0000823      **Procurement Instrument Number** DE-EE0006347      **NEPA Control Number** GFO-0006347-001      **CID Number**

**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.

**Rationale for determination:**

PPG Coatings and Resins (PPG) is proposing to use DOE funding to develop novel dark-colored cool pigments that combine fluorescence with reflectance to obtain effective solar reflectance values. These coatings would be utilized for dark-colored coatings used in metal roofing products and would increase the product's reflectance and reduce their thermal absorption in high temp areas.

PPG would work with the Lawrence Berkeley National Laboratory to formulate, synthesize, and test the pigmented materials. The PPG Coatings facility currently operates under a small source R&D air permit. Liquid waste would be disposed according to regulatory requirements by authorized handlers. Chemical handling, storage, and disposal are managed in compliance with applicable federal and state regulations and PPG's internal corporate requirements.

PPG would be working with organic coatings, resulting in minor emissions of volatile organic compounds or VOCs. Any VOC's generated at their facility would be discharged as defined under their small source air permit.

DOE has determined that this project is consistent with actions covered under DOE CX B3.6 (smallscale research and development projects and conventional laboratory operations); and therefore is 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 :

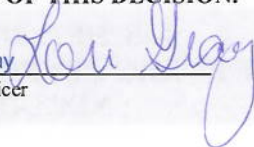
NEPA review completed by Laura Margason on August 28, 2013

This NEPA Determination does not require a tailored NEPA provision.

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

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

Electronically Signed By: **Lori Gray**  
NEPA Compliance Officer



Date: 8/28/2013

**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: \_\_\_\_\_