

FMC-ND

(1.08.09.13)

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



RECIPIENT: NREL

STATE: CO

PROJECT TITLE : NWTC CoMET Insulation Installation

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-AC36-08GO28308	NREL-18-001	

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:

**B2.1** Modifications within or contiguous to an existing structure, in a previously disturbed or developed area, to enhance workplace habitability (including, but not limited to, installation or improvements to lighting, radiation shielding, or heating/ventilating/air conditioning and its instrumentation, and noise reduction).

**Workplace enhancements**

## Rationale for determination:

The U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) is proposing to install a polyurethane foam roof system with a waterproof urethane coating onto the existing roof of their CoMET facility. The purpose of the project is to improve the insulation of the CoMET facility in order to maintain heat during winter months and to maintain consistent temperatures for composite material research. NREL is proposing to start this project in mid-November, 2017, and they expect it to take two weeks to complete.

Project activities would be conducted at NREL's National Wind Technology Center (NWTC), located southeast of the intersection of Colorado Highway (CO) 93 and CO-128, in Jefferson County, Colorado. The NWTC is a federally-owned facility that consists of 305 acres and is primarily utilized for wind energy research, development, and testing.

Project activities would include inspecting and cleaning the existing roof; sealing wall and roof gaps where necessary; installing several coats of medium density, closed cell, polyurethane foam via spray application; applying a final sealing silicone roof coating via spray application; and power washing the facility after application is dry. There would be no construction or ground disturbing activities.

The CoMET facility's roof is approximately 17,280 square feet. They expect to use about 1000 gallons each of two different types of polyurethane foam and 450 gallons of S2100 (the silicon coating). These products are stable and non-reactive under normal conditions of use, storage and transport. The foam would be applied at low pressures. If temperatures are less than 50 degrees; in wind speeds greater than 15 MPH; or if humidity is greater than 80% RH project activities would halt until conditions approved.

The proposed project would result in VOC and hazardous air pollutant (HAP) emissions. Total VOC emissions would be approximately 31 pounds and there would be an aggregate total of approximately 479 pounds of HAPs emissions. These quantities of VOC and HAPs emissions are considered de minimis per local and federal air quality regulations. NREL would ensure that remaining materials and container disposal would be done in accordance with all State of Colorado regulations.

NREL and contractor employees would follow established NREL health and safety policies including, training and use of proper protective equipment, at all times.

Based on the review of the proposal, DOE has determined the proposal fits within the class of action(s) and the integral elements of Appendix B to Subpart D of 10 CFR 1021 outlined in the DOE categorical exclusion(s) selected above. DOE has also determined that: (1) there are no extraordinary circumstances (as defined by 10 CFR

1021.410(2)) related to the proposal that may affect the significance of the environmental effects of the proposal; (2) the proposal has not been segmented to meet the definition of a categorical exclusion; and (3) the proposal is not connected to other actions with potentially significant impacts, related to other proposals with cumulatively significant actions, or an improper interim action. This proposal 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 the Recipient intends to make changes to the scope or objective of this project, the Recipient is required to contact the Project Officer, identified in Block 15 of the Assistance Agreement before proceeding. The Recipient must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved. If the Recipient moves forward with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance of a final NEPA decision, the Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist :

NEPA review completed by Laura Margason on November 9, 2017

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

NEPA Compliance Officer Signature:  Electronically Signed By: Kristin Kerwin  Date: 11/9/2017  
NEPA Compliance Officer

**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