

PMC-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 Bldg 251 Roof & RTU-1 Replacement Project, NREL Tracking No. 15-007

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-AC36-08GO28308	NREL-15-007	GO28308

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:

**B1.16
Asbestos
removal**

Removal of asbestos-containing materials from buildings in accordance with applicable requirements (such as 40 CFR part 61, "National Emission Standards for Hazardous Air Pollutants"; 40 CFR part 763, "Asbestos"; 29 CFR part 1910, subpart I, "Personal Protective Equipment"; and 29 CFR part 1926, "Safety and Health Regulations for Construction"; and appropriate state and local requirements, including certification of removal contractors and technicians).

**B2.5 Facility
safety and
environmental
improvements**

Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements include, but are not limited to, replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground or belowground tanks and related piping, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR part 265, "Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities" and 40 CFR part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel).

**B1.4 Air
conditioning
systems for
existing
equipment**

Installation or modification of air conditioning systems required for temperature control for operation of existing equipment

**B5.1 Actions to
conserve
energy or
water**

(a) Actions to conserve energy or water, demonstrate potential energy or water conservation, and promote energy efficiency that would not have the potential to cause significant changes in the indoor or outdoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, manufacturers, and designers), organizations (such as utilities), and governments (such as state, local, and tribal). Covered actions include, but are not limited to weatherization (such as insulation and replacing windows and doors); programmed lowering of thermostat settings; placement of timers on hot water heaters; installation or replacement of energy efficient lighting, low-flow plumbing fixtures (such as faucets, toilets, and showerheads), heating, ventilation, and air conditioning systems, and appliances; installation of drip-irrigation systems; improvements in generator efficiency and appliance efficiency ratings; efficiency improvements for vehicles and transportation (such as fleet changeout); power storage (such as flywheels and batteries, generally less than 10 megawatt equivalent); transportation management systems (such as traffic signal control systems, car navigation, speed cameras, and automatic plate number recognition); development of energy-efficient manufacturing, industrial, or building practices; and small-scale energy efficiency and conservation research and development and small-scale pilot projects. Covered actions include building renovations or new structures, provided that they occur in a previously disturbed or developed area. Covered actions could involve commercial, residential, agricultural, academic, institutional, or industrial sectors. Covered actions do not include rulemakings, standard-settings, or proposed DOE legislation, except for those actions listed in B5.1(b) of this appendix. (b) Covered actions include rulemakings that establish energy conservation standards for consumer products and industrial equipment, provided that the actions would not: (1) have the potential to cause a significant change in manufacturing infrastructure (such as construction of new manufacturing plants with considerable associated ground disturbance); (2) involve significant unresolved conflicts concerning alternative uses of available resources (such as rare or limited raw materials); (3) have the potential to result in a significant increase in the disposal of materials posing significant risks to human health and the environment (such as RCRA hazardous wastes); or (4) have the potential to cause a significant increase in energy consumption in a state or region.

DOE/EA 1914 (NREL NWTC) Final Site-Wide Environmental Assessment of the Department of Energy's National Wind Technology Center at the National Renewable Energy Laboratory

Rationale for determination:

The U.S. Department of Energy (DOE) proposes various repairs and replacement of building systems to maintain the existing roofing system, life safety upgrades, increase building daylighting, and the replacement of a HVAC unit that has reached the end of its useful life on Building 251 at the National Renewable Energy Laboratory's (NREL's) National Wind Technology Center (NWTC) located in Golden, Colorado.

Specifically, the proposed project at Building 251 includes:

- Repair of the roof walkway, gravel stops, sheet metal flashing and ballast.
- Removal, replacement and recertification of the lightning protection system components.
- Installation of fall protection devices, such as guardrails, lifelines, ladder anchors, etc.
- Removal and replacement of the access ladder and cage assembly leading to the high bay roof.
- Removal and replacement six existing skylights on roof level 1.
- Installation of nine solatubes in the roof over the main conference room area.
- Removal, modification, and reinstallation of the 7 solatubes on roof level 1.
- Installation of new roof access ladders.
- Repaint the natural gas line and supports.
- Removal and replacement of the roof access hatch.
- Installation of walkway mats to all equipment, doors, ladders and access points on the roof.
- Replace HVAC unit RTU-1 with new roof top HVAC unit.

A more detailed Project Management Plan and project design figures are uploaded to the PMC database.

The proposed project would not involve any ground disturbance activities. Air emissions would be limited to mobile air emission sources from construction equipment, such as aerial lifts, support trucks, etc., and small amounts of volatile organic compounds (VOCs) from roofing sealants. These emissions would be negligible and short-term. Construction-related noise would consist of a short-term, intermittent increase in ambient noise levels and would abide by applicable noise ordinances.

The proposed project would require the removal of asbestos containing roofing material. These materials would be removed and disposed of in accordance with federal and state asbestos regulations by a licensed asbestos abatement contractor. All construction materials and waste would be managed accordingly under NREL's waste management program, including waste diversion and recycling. A nesting bird survey would be completed by NREL's EHS Office before these activities are initiated, per NREL policy. NREL and their contractors would follow DOE, federal, state, local environmental, health, and safety regulations, as well as NREL policies and procedures.

Per agency consultations conducted during the Site-Wide Environmental Assessment for the NREL NWTC (DOE/EA-1914), no cultural resources, threatened or endangered species, wetlands, floodplains, or prime farmlands would be impacted by this proposed project. DOE/EA-1914 and its Finding of No Significant Impact (FONSI) are hereby incorporated by reference.

DOE has determined based upon the information above, there are no extraordinary circumstances presented by this proposed action. DOE has determined the proposed project is consistent with the actions contained in DOE categorical exclusions B1.4 "Air conditioning systems for existing equipment," B1.16 "Asbestos removal," B2.5 "Facility safety and environmental improvements," and B5.1, "Actions to conserve energy or water," and is 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 conducted by Rob Smith on 6/5/2015.
National Renewable Energy Laboratory

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

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

Lori Gray

Date: 6/5/2015

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: _____