

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 : NREL-16-020 Optimize Heat Recovery

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-AC36-08GO28308	NREL-16-020	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:

DOE/EA-1968 (NREL STM) SITEWIDE ENVIRONMENTAL ASSESSMENT, U.S. DOE NATIONAL RENEWABLE ENERGY LABORATORY, SOUTH TABLE MOUNTAIN CAMPUS, GOLDEN, COLORADO

B2.1 Workplace enhancements 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).

Rationale for determination:

The U. S. Department of Energy (DOE) proposes to make improvements to the Solar Energy Research Facility (SERF) and Science and Technology Facility (STF) heating, ventilation, and air conditioning (HVAC) systems at the National Renewable Energy Laboratory (NREL) South Table Mountain (STM) campus located in Golden, Colorado. The proposed project would optimize heat recovery within the SERF and STF. Activities would include re-piping heat recovery coils, upgrading equipment, and replacing propylene glycol with ethylene glycol in the HVAC system.

At the STF, approximately 1000 gallons of used propylene glycol solution would be disposed of directly to the sanitary sewer. Disposal via the sanitary sewer would be permissible by Pleasant View Water & Sanitation District (Pleasant View) because both the pH and volume of discharge would be within their allowable limits. Due to contamination by small amounts of molybdenum, approximately 1500 gallons of used propylene glycol solution from the SERF would be disposed of via a hazardous waste contractor. At both locations, the HVAC systems would be cleaned and flushed with water before ethylene glycol (mixed at 40% glycol/60% water) is added. The pH and volume of discharge would be within Pleasant View's allowable limits, allowing the cleaning water to be disposed of through the sanitary sewer.

Individuals working on this project could potentially be exposed to glycol solution and electrical hazards. Existing corporate health and safety policies and procedures would be followed, including employee training, proper protective equipment, engineering controls, monitoring, and internal assessments. Additional policies and procedures would be implemented as necessary as new health and safety risks are identified.

The propylene glycol and ethylene glycol solutions may produce vapors, but the amount would be negligible as the solutions would be contained within the HVAC system and collection tank(s). No air emissions are expected.

All equipment is to be installed indoors, and no ground disturbing activities would occur.

Based on review of the project information and the above analysis, DOE has determined the proposed project would not have a significant individual or cumulative impact to human health and/or the environment. DOE has determined the proposed action is consistent with and bounded by the activities that are analyzed in the Department of Energy's STM Site-Wide Environmental Assessment (DOE/EA-1968) and FONSI. The proposed action is also consistent with actions outlined in DOE categorical exclusion B2.1 "Workplace enhancements", 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 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 :

NREL

NEPA review conducted by Nicole Serio on 08/29/2016

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



Electronically
Signed By: Kristin Kerwin

NEPA Compliance Officer

Date: 8/30/2016

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: _____