PMC-ND	**U.S. DEPARTMENT OF ENERGY**	
(1.08.09.13)	**OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY** **NEPA DETERMINATION**	

RECIPIENT: NREL   **STATE:** CO

PROJECT TITLE: NREL-20-019-IBRF Patio Stabilization Project-STM

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-AC36-08GO28308	NREL-20-019	GO28308

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), 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

Rationale for determination:

The U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) proposes to stabilize and level the concrete patio of the Integrated Biorefinery Research Facility (IBRF) located at the NREL South Table Mountain (STM) campus in Golden, Colorado.

The purpose of the proposed project is to address soil stabilization issues that have occurred in part due to snow and water runoff, which has resulted in the existing patio becoming sloped and uneven. The proposed project would involve demolishing the existing concrete patio, stabilizing the ground underneath, installing water control measures to control runoff, and pouring a new concrete patio. The scope of the proposed project would also include adding a top row to the existing retaining wall and removing and replacing the existing handrail.

The proposed project would involve the following activities:
1) The existing concrete would be demolished using a mini excavator; some concrete would be removed via saw cutting. The existing railing, rock mulch, and vegetation would also be removed.
2) The ground underneath the patio would be stabilized using approximately 525 square feet of imported soil. The soil would be compacted using a jumping jack (rammer).
3) Concrete would be poured for the new patio, which would be approximately 525 square feet. The concrete would be slightly sloped to provide proper water runoff.
4) A trench drain, downspout, and channel would be installed to provide proper water runoff and erosion control and would measure approximately 110 linear feet; the channel would be excavated to a depth of approximately 1 foot.
5) A row of wall bricks would be added to the top of the existing retaining wall; the new wall would measure approximately 250 linear feet.
6) A new handrail would be installed that is approximately 250 linear feet.

The total area of disturbance for the proposed project would be approximately 1050 square feet. The proposed project would begin in March of 2020 and would continue through June 2020.

Ground disturbance would occur in areas that have been previously disturbed, and the laydown area for equipment and materials would be on approximately 400 square feet of pavement adjacent to the project area. Erosion control measures would be used and maintained during and after the project period. All ground disturbing activities would be conducted in accordance with existing NREL policies and procedures that guide such work.

Project activities would not affect cultural resources, threatened or endangered species, wetlands, floodplains, or prime farmlands, and no permits would be required. A migratory bird nesting survey shall be completed if project activities involving ground disturbance occur between March 15 and September 15. If nests or eggs are found, the area would be cordoned off with a proper buffer until nestlings fledge.

Mobile air emissions from construction equipment and work trucks would be negligible and short-term. Construction-related noise would consist of a short-term, intermittent increase in ambient noise levels and would follow applicable noise ordinances. Construction waste would be reused, recycled, or disposed of in accordance with applicable regulations and NREL policy and procedures. Concrete washout would occur using EcoPans. Leftover wire and

conduit would be recycled, and spoils from demolition operations would either be reused or hauled offsite to be recycled.

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

NEPA PROVISION

DOE has made a final NEPA determination.

Include the following condition in the financial assisstance agreement:

A migratory bird nesting survey shall be completed if project activities involving ground disturbance occur between March 15 and September 15.

Notes:

NREL
Nicole Serio, 2/6/2020

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: Electronically Signed By: Lisa Jorgensen   Date: 2/7/2020
                                         NEPA Compliance Officer

FIELD OFFICE MANAGER DETERMINATION

☑ Field Office Manager review not required
☐ Field Office Manager review required

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____   Date: 2/7/2020
                                      Field Office Manager