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-23-016 Turbine Removal at Site 4.4 - FC

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number

DE-AC36-08GO28308 GFO-NREL-23-016 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 1914 (NREL 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's (DOE) National Renewable Energy Laboratory (NREL) proposes to decommission the SGRE 2.3-MW wind turbine located at Site 4.4 at the NREL Flatirons Campus (FC) in Arvada, Colorado. The purpose of the proposed project is to disassemble the wind turbine. A subcontractor would be used to complete the work.

DISASSEMBLY OF THE TURBINE

A support crane would be used to assemble a crawler crane at site 4.4, which would be used to disassemble the turbine. Fluids would be reclaimed from the gearbox and other parts within the nacelle and recycled. The tower would be cut up using hydraulic shears on an excavator and loaded on a flatbed truck for disposal offsite. The nacelle would be shipped offsite for reuse or to be recycled. The blades may be cut up on site for disposal, or they may be stored onsite before shipping to another wind facility for reuse.

The turbine foundation, electrical feeder, and road would remain in place for future use.

ANALYSIS

The proposed project would be completed in Fall 2023. The total area of disturbance from project activities (which includes area disturbed by the removal of a turbine at site 4.5, please see NREL-23-015) would be approximately 40,000 square feet. Ground disturbance would occur in areas that have been previously disturbed, and erosion control measures would be used and maintained during and after the project period as needed. Vegetation would be restored at the conclusion of the work. All ground disturbing activities would be conducted in accordance with existing NREL policies and procedures that guide such work. The estimated area of disturbance is less than an acre; however, if the area of disturbance is increased to be greater than an acre, an EPA Construction General Permit would be obtained.

Air emissions resulting from vehicles and equipment operation would be de minimis. Fugitive dust from excavation activities would be generated but would be limited by using water. Breaking down the concrete foundation could result in elevated noise levels, but the disturbance would be temporary.

Site 4.4 is located to the west and south of ancient soils and Preble's Meadow Jumping Mouse habitat. These areas would be marked prior to the start of the project to ensure they are not disturbed. Project activities would not affect cultural resources, threatened or endangered species, floodplains, wetlands, or prime farmlands. 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.

Individuals working on this project could be exposed to physical and electrical hazards. The concrete would be wetted to reduce airborne dust production and to reduce silica exposure to workers. Existing corporate health and safety policies and procedures would be followed including employee training, proper protective equipment, engineering controls, and monitoring, as well as obtaining a Safe Work Permit. Additional policies and procedures would be implemented as necessary if new health and safety risks are identified.

Based on the review of the project, DOE has determined that the proposed project fits within the scope of activities that were analyzed in Section 3.4.3.2 "Increasing Site Use and Density" of the 2014 Final Site-Wide Environmental

Assessment of the NREL NWTC (DOE/EA-1914). DOE has determined that the proposed project is bound by the environmental impact analysis contained in this EA and its respective FONSI, and no further NEPA review is required.

NEPA PROVISION			
DOE has made a final NEPA determination.			
Include the following condition in the finance	ial assistance agreement:		
	completed if project activities involving gro eggs are found, the area would be cordor		
Notes:			
NREL Completed by Nicole Serio, 8/30/2023			
SIGNATURE OF THIS MEMORANDUM CO	ONSTITUTES A RECORD OF THIS DECIS	SION.	
NEPA Compliance Officer Signature:	Signed By: Matthew Blevins NEPA Compliance Officer	Date:	8/31/2023
FIELD OFFICE MANAGER DETERMINATI	ION		
✓ 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:	Field Office Manager	Date:	