PMC-ND

(1.08.09.13)

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



RECIPIENT: NREL

PROJECT TITLE: NREL-22-015 UAS Flights for Camp George West District Photo/Video Survey - Golden, CO

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

DE-AC36-08GO28308 NREL-22-015 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:

B3.2 Aviation Aviation activities for survey, monitoring, or security purposes that comply with Federal Aviation

activities Administration regulations.

Rationale for determination:

The U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) is proposing to use uncrewed aircraft systems (UAS) to capture high-definition video and photographs of Camp George West (CGW) located in Golden, Colorado. Flights would occur over multiple days between summer 2022 through summer 2023.

The UAS that would be used is a Parrot ANAFI. Following a set flight plan, the single UAS would takeoff from various locations within CGW and would perform specific flight patterns to take videos and photographs of the campus. Flights would occur on both weekdays and weekends.

Flights would consist of ascending and descending vertical maneuvers as well as level flight from ground level to 399 feet above ground level. All flights would maintain a speed of less than 20 mph and a minimum horizontal or vertical distance of 25 feet from structures. Workers would maintain a minimum of 6 feet of separation from the UAS when it is powered on.

Visual markings for the take-off and landing area with items such as cones, caution tape, or signage would be implemented. Launch and landing areas would be determined by the PIC prior to each flight.

The minimum essential flight crew is the Pilot-in-Command (PIC) and one visual observer. Mission support staff would accompany the flight team as needed to direct and control staff access during flights and visual observers would be present to help monitor the airspace.

Road closures would not be necessary, and all flights would occur during daylight hours. The UAS would be landed when large birds or bird flocks are present in the flight airspace. Flights would not be conducted over people, adjacent residential housing, or property unless in an emergency.

Flight activities would be conducted by NREL staff as authorized in accordance with NREL policies, procedures, and safety requirements and under FAA Part 107 regulations. Based on the locations of flights and planned safety measures, no adverse impacts are expected due to the activity.

Flights would be conducted in Class G airspace which does not require notifications, authorizations, or permits. However, written authorizations to fly in the airspace would be requested from stakeholders at CGW prior to flights. Stakeholders would be property owners adjacent to CGW which includes, but is not limited to, the Colorado Department of Transportation, the Department of Military and Veterans Affairs, and the Office of Information Technology.

A risk assessment has been completed for flight activities. Operational parameters, hazards, and controls are identified and defined in an Aviation Safety Plan that was prepared in consultation with NREL Environment, Safety, and Health staff and the UAS Steering Committee. The Flight Plan for this project has been submitted and approved by the Golden Field Office's Aviation Manager and Office Director. The Aviation Manager determined that the identified flight risks for the project "have been adequately identified and mitigated to low risk per the DOE Risk Assessment. If flight conditions change or the documented mitigation factors are unable to be implemented the mission will need to be paused so a reevaluation of hazards can occur."

NEPA PROVISION DOE has made a final NEPA determination. Notes: NREL Nicole Serio, 7/15/2022

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:	Rectronically Signed By: Casey Strickland	Date:	7/15/2022
	NEPA Compliance Officer	<u> </u>	
FIELD OFFICE MANAGER DETERMIN	NATION		
✓ Field Office Manager review not require☐ Field Office Manager review required	ed		
BASED ON MY REVIEW I CONCUR W	ITH THE DETERMINATION OF THE NCO:		
Field Office Manager's Signature:		Date:	
	Field Office Manager		