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(1.08.09.13)

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



STATE: AK

RECIPIENT: Alaska Village Electric Cooperative

PROJECT TITLE: Shaktoolik Battery System Construction Project

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

DE-FOA-0002774 DE-IE0000173 GFO-0000173-001

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:

A9 Information gathering, analysis, and dissemination

Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

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.

## Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to the Alaska Village Electric Corporation for the installation of a community-scale energy storage grid bridging system (GBS) for the existing power plant and wind turbines in Shaktoolik, Alaska.

Award activities include installation of a 320 kw/361 kWh lithium-ion NMC battery and grid-forming inverter adjacent to the existing power plant. The battery and inverter would be housed in shipping container (8.5'x8'x20') on a raised aluminum Triodetic foundation. The Triodetic foundation is designed for permafrost ecosystems and does not require ground disturbance. Prior to installation, gravel would be laid forming a 12'x24' pad. The shipping container would be located adjacent to the power plant in an area that currently serves as a laydown yard for miscellaneous electrical materials and the power plant transformers riser pole.

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website identifies three threatened species (Polar Bear, Spectacled Eider, & Steller's Eider) which may occur in the proposed project area.

The proposed project would be located within designated critical habitat for Polar Bears. The proposed project is in the center of the village, in a developed lot. While the village is located in the habitats of the species listed above, no potentially habitable areas would be impacted by the proposed project. DOE has determined no effect to special status species.

Minimal air emissions would occur from the use of small-scale construction equipment and vehicles during installation activities. Significant air impacts are not anticipated as construction equipment and vehicle use would be temporary and intermittent. Project activities would involve hazards associated with routine construction activities, working with heavy equipment, and working with electricity. Any risks working with hazards would be mitigated through established corporate safety and construction protocols. The Alaska Village Electric Corporation would observe all applicable health, safety, and environmental regulations. DOE does not anticipate any impacts to resources of concern due to the proposed activities of the project.

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DOE has made a final NEPA determination.
Notes:
Office of Indian Energy Policy and Programs (OIE) NEPA review completed by Amy Lukens, 8/11/2023

## 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.

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NEPA Compliance Officer Si	gnature:	Signed By: Casey Strickland		8/14/2023	
	·	NEPA Compliance Officer			
FIELD OFFICE MANAGE	ER DETERMINATI	ION			
<ul> <li>Field Office Manager review not required</li> <li>□ Field Office Manager review required</li> </ul>					
BASED ON MY REVIEW	I CONCUR WITH	THE DETERMINATION OF THE NCO:			
Field Office Manager's Signa	Date:				

Field Office Manager