

PMC-ND
(1.08.09.13)

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



RECIPIENT: Tanadgusix Corporation

STATE: AK

PROJECT TITLE : Deep Energy Makeover fro POSS Camp

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001660	DE-IE0000094	GFO-0000094-001	

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:

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 Tanadgusix Corporation (TDX) for deep energy retrofits of the Petroleum Offshore Supply Support (POSS) camp facility located on the island of St. Paul, Alaska. These retrofits would be designed to increase facility utilization while reducing fossil fuel use per square foot of occupied space. Retrofits would focus on both thermal and electrical efficiency increases. The current wind-diesel power system at the POSS camp would also be modified to accept an additional 225 kW wind turbine.

Proposed project energy retrofits include lighting fixture and control upgrades; power and control wiring improvements; design of thermal controls; thermal loop upgrades; installation of high efficiency heat pumps; and building envelope improvements (e.g. air sealing and insulation). The existing facility would be renovated for improved efficiency but there would be no change to the configuration of the structure itself. There would be no change in the use, mission, or operation of existing facilities beyond improving the economics and comfort of commercial tenants utilizing the facility. Upgrades within the facility would include typical risks associated with construction, electrical, and HVAC work. TDX

has experience in executing projects of this type and scale and has dedicated health, safety, and environmental protocols in place to ensure compliance with all federal, state, and local regulations. Local labor would be maximized for this project so TDx would put additional protocols in place to ensure workers are properly trained and jobs are assigned to workers qualified to perform them safely. Waste generated by the project would be handled by municipal refuse collection and would be disposed of at the local landfill. The St. Paul Ataqan landfill is permitted for the disposal of construction and demolition wastes with the State of Alaska (Permit No. SW3A044-19). Any heavy scrap would be set aside for barge transport. DOE does not anticipate any impacts to resources of concern from the proposed project energy retrofits listed above.

The POSS camp currently includes a wind farm consisting of three 225 kW wind turbines located approximately 1900 feet west of the St. Paul Island Airport runway. The installation of an additional fourth 225 kW wind turbine is proposed as part of this project. Due to the height of the proposed turbine and the proximity to the St. Paul Island Airport, TDx must submit wind turbine installation details to the Federal Aviation Administration (FAA) for an Obstruction Evaluation/Airport Airspace Analysis. At this time, there is not enough information to complete a thorough review of the activities and potential impacts associated with the installation of the wind turbine at the proposed location. Once the FAA has completed further aeronautical study and additional details of project design and siting are completed, another NEPA review will be required to assess potential impacts associated with the wind turbine installation and integration with the POSS camp (Task 5).

Based on the review of the proposal, DOE has determined that Tasks 1 through 4 and Task 6 of the proposal fit within the class of action(s) and the integral elements of Appendix B to Subpart D of 10 CFR 1021 outlined in the DOE categorical exclusion(s) selected above. DOE has also determined that: (1) there are no extraordinary circumstances (as defined by 10 CFR 1021.410(2)) related to the proposal that may affect the significance of the environmental effects of the proposal; (2) the proposal has not been segmented to meet the definition of a categorical exclusion; and (3) the proposal is not connected to other actions with potentially significant impacts, related to other proposals with cumulatively significant actions, or an improper interim action. Tasks 1 through 4 and Task 6 of the proposal are categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:

Task 5: Wind Turbine Installation and Integration

This restriction does not preclude you from:

Task 1: Project Management

Task 2: Electrical Retrofit

Task 3: Thermal Systems Upgrade

Task 4: Envelope Improvements

Task 6: Verification

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Insert the following language in the award:

You are required to:

Due to the height of the proposed turbine and the proximity to the St. Paul Island Airport, the recipient must submit wind turbine installation details to the Federal Aviation Administration for an Obstruction Evaluation/Airport Airspace Analysis.

Note to Specialist :

Office of Indian Energy Policy and Programs

This NEPA determination requires a tailored NEPA provision.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:  Casey Strickland  Date: 8/17/2017
NEPA Compliance Officer

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: _____ Date: _____
Field Office Manager