PMC-ND

(1.08.09.13)

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



RECIPIENT: Florida A&M University

STATE: FL

PROJECT TITLE: Hot-Swap and Modular PV + Battery Energy System to Achieve Strong Resilience and Fast Restoration from Natural Disasters for Underserved or Vulnerable Communities

Notice of Funding Opportunity Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-002597	DE-EE0010427	GFO-0010427-002	GO10427

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.)
B3.6 Small-scale research and development, laboratory operations, and pilot projects	Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) , frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the Florida A&M University (FAMU) (Tallahassee, FL) for the design, development, fabrication, and lab testing of an advanced photovoltaic inverter prototype. Additional award activities include surveying, workshopping, data acquisition, simulation, analysis to study community energy resilience, and solar farm visitation.

Award activities would take place at FAMU, University of Pittsburgh (Pittsburgh, PA), Northeastern University (Boston, MA), Florida State University (Tallahassee, FL), and DOE's National Renewable Energy Laboratory (NREL) (Golden, CO). More specifically, design, development, fabrication, and lab testing would take place at Pittsburgh, PA and Boston, MA. Data acquisition, survey, workshop, sola farm visitation activities would be completed by FAMU. Florida State University would perform power grid and simulation analysis. And inverter submodule test and assessment would take place at NREL. There are no new permits or licenses required.

The University of Pittsburg would be installing a 480-volt power panel which is considered a minor modification of the existing facilities. The panel installation would take place at existing lab space without change in the use, mission or operation of existing facilities. The panel installation would not alter the footprint of the building. Modifications are not proposed at other project locations. All activities would comply with existing federal, state, and local laws and regulations. No new permits or additional facility modifications would be required.

The project would involve the development and testing of electrical circuits and risks include electrical hazards from prototype to be developed. However, all activities would occur in-lab and would pose no risk to the public. Solar farm visitation includes the risk associated with electrical hazards from the solar farm. Proper safety protocols would be provided to mitigate the risk and ensure the safety of public visitors. Participants would adhere to proper health and safety policies and procedures including employee training and use of proper protective equipment to mitigate hazards to acceptable levels. Additional policies and procedures would be implemented as necessary if new health and safety risks are identified.

This project would include the handling of potentially hazardous chemicals and waste. Specifically, activities at the University of Pittsburgh would generate electrical waste, including PCB boards and semiconductor chips. All materials would be handled in in accordance with electrical waste disposal regulations and in accordance with other applicable federal, state, and local regulations.

DOE has considered the scale, duration, and nature of proposed activities to determine potential impacts on resources, including those of an ecological, historical, cultural, and socioeconomic nature. DOE does not anticipate impacts on these resources which would be considered significant or require DOE to consult with other agencies or stakeholders.

Any work proposed to be conducted at a federal facility may be subject to additional NEPA review by the cognizant federal official and must meet the applicable health and safety requirements of the facility.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Solar Technologies Office (SETO) NEPA review completed by James Cherry, 11/6/2024

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:

Electronically Signed By: Andrew Montano

Date: 11/7/2024

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: