PMC-ND

(1.08.09.13)

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



RECIPIENT: ABB Inc.

STATE: NC

PROJECT TITLE Single Active Switch PV Inverter

Funding Opportunity Announcement Number

Procurement Instrument Number DE-EE0007591

NEPA Control Number CID Number GFO-0007591-001

GO7591

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.

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 analysis, and dissemination (including, but not limited to, document publication and distribution, and classroom training dissemination and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

B3.6 Smallscale 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 research and sample analysis); and small-scale pilot projects (generally less than 2 years) frequently conducted to verify a development, 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 ABB Inc. to develop an early-stage, functional prototype inverter, with appropriate control and modulation schemes to validate performance and retire technology risks.

Proposed activities would include model development, modulation scheme development and verification, and design, fabrication, and in-lab testing of a full inverter. All activities would take place at ABB Inc.'s dedicated research and development facilities Raleigh, NC. The facility in which this lab work would occur was purpose-built for the type of activities being proposed; therefore, no new or modified permits, construction of new facilities or physical modifications to existing facilities would occur as a result of the proposed project.

The proposed project would not necessitate the use or handling of any hazardous materials and no hazardous wastes would be generated. All materials would be managed in accordance with federal, state, and local environmental regulations. Wastes produced would be strictly non-hazardous and would be recycled when possible and would otherwise be disposed of through normal municipal waste streams.

Based on the review of the proposal, DOE has determined the proposal fits within the class of action(s) and the integral elements of 10 CFR 1021 subpart B 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. This proposal is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If the Recipient intends to make changes to the scope or objective of this project, the Recipient is required to contact the Project Officer, identified in Block 15 of the Assistance Agreement before proceeding. The Recipient must receive notification of approval Field Office Manager's Signature:

U.S. DOE: Office of Energy Efficiency and Renewable Energy - Environmental Questionnaire
from the DOE Contracting Officer prior to commencing with work beyond that currently approved. If the Recipient moves forward with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance of a final NEPA decision, the Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized as allowable cost share.
Note to Specialist:
Solar Energy Technology Office This NEPA determination does not require a tailored NEPA provision. Review completed by Rebecca McCord 07/27/2016
GNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.
PA Compliance Officer Signature: Date: 8/1/2016 NEPA Compliance Officer Date: 8/1/2016
ELD OFFICE MANAGER DETERMINATION
Field Office Manager review required
O 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.

Field Office Manager

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO: