PMC-ND

(1.08,09.13)

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



RECIPIENT: Sistine Solar, Inc.

STATE: MA

PROJECT TITLE Low-Cost Color Matching Solar Panels

Funding Opportunity Announcement Number DEFOA0001225

Procurement Instrument Number NEPA Control Number CID Number DE-EE0007187

GFO-0007187-002

GO7187

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:

Α9 Information gathering, analysis, and

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 dissemination informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

B1.31 relocation of machinery and equipment

Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory Installation or equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.

B3.11 experiments on materials and equipment components

Outdoor tests and experiments for the development, quality assurance, or reliability of materials and Outdoor tests equipment (including, but not limited to, weapon system components) under controlled conditions. Covered actions include, but are not limited to, burn tests (such as tests of electric cable fire resistance or the combustion characteristics of fuels), impact tests (such as pneumatic ejector tests using earthen embankments or concrete slabs designated and routinely used for that purpose), or drop, puncture, waterimmersion, or thermal tests. Covered actions would not involve source, special nuclear, or byproduct materials, except encapsulated sources manufactured to applicable standards that contain source, special nuclear, or byproduct materials may be used for nondestructive actions such as detector/sensor development and testing and first responder field training.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Sistine Solar, Inc. to design, develop, test and manufacture SolarSkin, an add-on layer to conventional solar panels that both transmits incident light and reflects back a vibrant image, allowing customers to change the look of their solar panels. A previous NEPA Determination (GFO-0007187-001; CX A9, B3.6; 09/11/15) reviewed all activities excluding outdoor testing and demonstration pending submission of specific location information for additional NEPA review. This NEPA Determination is to review the remaining project activities and their locations.

Proposed activities include outdoor exposure testing and post-exposure inspections at two existing facilities operated by a 3rd party contractor, Atlas Weathering Services Group. In addition, Sistine Solar would lease an indoor unit at the Extra Space Storage facility in Somerville, MA adjacent to their current warehouse space to accommodate growing production of solar panels plus equipment and miscellaneous supplies.

Outdoor testing would take place at dedicated facilities for exposure testing of materials to the elements and sun. Prefabricated modules outfitted with SolarSkin (up to 3 in each location, for a total of 6 panels) would be sent to South Florida Test Service in Miami, FL and DSET Laboratories in Phoenix, AZ. The equipment would be installed for 12 months on an aluminum racking system established and maintained by the facility. Visual inspections would occur at 3 month intervals. Selected locations are previously developed and no new ground disturbance would occur as a result of the proposed activities. Once testing is complete, the panels would be shipped back to Sistine Solar and stored for future use. No waste products are anticipated.

The locations of outdoor testing are purpose-built for the type of activities being proposed; therefore, no adverse impacts to sensitive resources are expected as a result of the proposed project. No change in the use, mission or operation of existing facilities would arise out of this effort. The facilities have all applicable permits in place, and would not need additional permits for the proposed activities. Outdoor work would be conducted by expertly trained contractors following applicable corporate health and safety protocol associated with this type of testing.

Based on the review of the proposal, DOE has determined the proposal fits 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. 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 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.

with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized	
Insert the following language in the award:	
You are required to:	
Note to Specialist:	
Solar Energy Technologies Office This NEPA determination does not require a tailored NEPA Provision. NEPA review completed by Whitney Doss, 7/27/17	
SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.	
NEPA Compliance Officer Signature: NEPA Compliance Officer NEPA Compliance Officer	Date: 7/31/2017
FIELD OFFICE MANAGER DETERMINATION	
☐ Field Office Manager review required	
NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASO	ON:
Proposed action fits within a categorical exclusion but involves a high profile or controversial issue Manager's attention.	that warrants Field Office
Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's re	eview and determination.
BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO:	
Field Office Manager's Signature:	Date:
Field Office Manager	