PMC-ND

(1.08.09.13)

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



RECIPIENT: University of Colorado Boulder

STATE: CO

PROJECT TITLE Theoretical Design and Discovery of the Most Promising Previously Overlooked Hybrid Perovskite Compounds

Funding Opportunity Announcement Number DE-FOA-0001654

Procurement Instrument Number NEPA Control Number CID Number DE-EE0008153

GFO-0008153-001

GO7366

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

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.)

A11 Technical advice and assistance to

organizations

Technical advice and planning assistance to international, national, state, and local organizations.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the University of Colorado Boulder to research and design novel solar-cell materials using computer-based methodologies.

Activities associated with the proposed project would include literature searches, data analysis, and computational modeling to evaluate hybrid perovskite solar-cell work throughout the world. There would be no experimental or material development activities beyond computer-based calculations. All work would occur in research offices at CU Boulder in Boulder, CO. The proposed project would access the National Renewable Energy Laboratory High-Performance Computation facilities remotely through CU Boulder's campus facilities.

Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

Based on the review of the proposal, DOE has determined that the proposal fits within the class of action(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.

Insert the following language in the award:

You are required to:

Any work proposed to be conducted at a DOE laboratory may be subject to additional NEPA review by the cognizant DOE NEPA Compliance Officer for the specific DOE laboratory prior to initiating such work. Further, any work conducted at a DOE laboratory must meet the laboratory's health and safety requirements.

Note to Specialist:

Solar Energy Technologies Office This NEPA determination requires a tailored NEPA Provision. NEPA review completed by Whitney Doss, 07/31/2017

SIG	NATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.
NEF	A Compliance Officer Signature: NEPA Compliance Officer Date: 7/3 2017
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	d Office Manager's Signature: Date:
Field Office Manager	