PMC-EF2a	U.S. DEP.	ARTMENT OF ENERGY		100 million
(2.04.02)	EERE PROJEC	CT MANAGEMENT CENTE	R	(call
	NEPA	DETERMINATION		
RECIPIENT:F	Pennsylvania State University		STATE: P	A
PROJECT TITLE :	Scattering Solar Thermal Con-	centrators		
Funding Op	portunity Announcement Number DE-SOL-0000595	Procurement Instrument Number DE-EE0005798	NEPA Control Number GFO-0005798-001	CID Number GO5798
	eview of the information concerning , I have made the following determin	the proposed action, as NEPA Comp nation:	liance Officer (authorized	under DOE
CX, EA, EIS A Description:	PPENDIX AND NUMBER:			
B3.6 Sma	II-scale Siting, construction, m	odification, operation, and decommissi	ioning of facilities for small	scale research

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.
B5.17 Solar thermal systems	The installation, modification, operation, and removal of commercially available smallscale solar thermal systems (including, but not limited to, solar hot water systems) located on or contiguous to a building, and if located on land, generally comprising less than 10 acres within a previously disturbed or developed area. Covered actions would be in accordance with applicable requirements (such as local land use and zoning requirements) in the proposed project area and would incorporate appropriate control technologies and best management practices.

Rational for determination:

DOE is proposing to provide federal funding to Pennsylvania State University (PSU) to conduct research and development activities that advance a scattering solar thermal concentrator. DOE funding would be used to design, build, test and install the prototype.

Laboratory work would be conducted at PSU's Electrical Engineering West Building (201 Old Main, University Park, Pennsylvania 16802). PSU has completed an R&D questionnaire addressing the protocols for laboratory safety, risk management, chemical handling and waste disposal. The laboratory complies with standard safety procedures and all processes and procedures are monitored by PSU's Environmental Health and Safety (EH&S) Department.

The university has all applicable permits in place to conduct research on campus. Liquid effluents consisting of solvents, acids, bases, chemical reagents and other liquid wastes will be disposed of through EH&S, which picks up waste in approved containers and disposes of it through licensed facilities.

Prototype testing would be conducted on the roof of the Electrical Engineering West Building and would consist of one panel measuring ~3 square feet. The proposed project would not be located in a wetland or floodplain, nor are cultural resources or threatened and endangered species known to occur in the area.

Based on this information, DOE has determined the work outlined is consistent with activities identified in categorical exclusion B3.6 (indoor bench-scale research and conventional laboratory operation) and B5.17 (solar thermal systems).

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Cristina Tyler 8.2.2012

https://www.eere-pmc.energy.gov/GONEPA/EF2a_Form.aspx?key=14072 8/2/2012

Page 2 of 2

DOE Funding: \$258,000 Cost Share: \$63,000 Total Project Cost: \$311,000

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:

NEPA Compliance Officer

8/2/20 Date:

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	
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