PMC-ND

(1.08.09.13)

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



RECIPIENT: Pecan Street (Novation from Concurrent was recently completed)

STATE: TX

PROJECT TITLE The Energy Switch

Funding Opportunity Announcement Number DF-FOA-0001225

Procurement Instrument Number DE-EE0007185

NEPA Control Number CID Number GFO-0007185-001

GO7185

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 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.)

B3.1 Site and environmental monitoring

Site characterization and environmental monitoring (including, but not limited to, siting, construction, characterization modification, operation, and dismantlement and removal or otherwise proper closure (such as of a well) of characterization and monitoring devices, and siting, construction, and associated operation of a smallscale laboratory building or renovation of a room in an existing building for sample analysis). Such activities would be designed in conformance with applicable requirements and use best management practices to limit the potential effects of any resultant ground disturbance. Covered activities include, but are not limited to, site characterization and environmental monitoring under CERCLA and RCRA. (This class of actions excludes activities in aquatic environments. See B3.16 of this appendix for such activities.) Specific activities include, but are not limited to: (a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, radar, and temperature gradient), geochemical, and engineering surveys and mapping, and the establishment of survey marks. Seismic techniques would not include large-scale reflection or refraction testing; (b) Installation and operation of field instruments (such as stream-gauging stations or flow-measuring devices, telemetry systems, geochemical monitoring tools, and geophysical exploration tools); (c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone, well logging, and installation of water-level recording devices in wells; (d) Aquifer and underground reservoir response testing; (e) Installation and operation of ambient air monitoring equipment; (f) Sampling and characterization of water, soil, rock, or contaminants (such as drilling using truck- or mobile-scale equipment, and modification, use, and plugging of boreholes); (g) Sampling and characterization of water effluents, air emissions, or solid waste streams; (h) Installation and operation of meteorological towers and associated activities (such as assessment of potential wind energy resources); (i) Sampling of flora or fauna; and (j) Archeological, historic, and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7.

B5.15 Smalleneray research and development and pilot projects

scale renewable Small-scale renewable energy research and development projects and small-scale pilot projects, provided that the projects are located 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.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Pecan Street to produce and demonstrate a fully functional and integrated prototype of a new category of residential hardware, called the Energy Switch.

Proposed activities would include the development of a gateway-controllable Switch Automation Relay Module (SARM); designing and building an integrated Energy Switch prototype with SARM control; testing the integrated Energy Switch prototype in the lab under a wide range of residential conditions; and field testing the integrated

Energy Switch prototype. Product design and engineering would be completed at Concurrent Design Inc.'s facilities in Austin, TX. Product testing and interviews would be undertaken by Pike Powers Lab in Austin, TX. Field testing would be completed in existing homes throughout Austin, TX and would be carried out on exposed surfaces only; therefore, no interior construction would occur. Most equipment would be located in the basement or in an out of the way location as the homes are expected to be occupied. At this time, the specific homes have not been identified; however, all proposed work would be temporary in nature. No licenses, permits or special authorizations are expected to be required. DOE has determined that no adverse effects to the human environment would occur as a result of the proposed project.

Based on a review of the project information and the above analysis, DOE has determined that the proposed activities would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined that this project is consistent with actions outlined in DOE categorical exclusion A9 "Information gathering", B3.1 "Site Evaluation", and B5.15 "Small-scale renewable energy research and development and pilot projects" and 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 you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist:

Solar Energy Technologies Office

This NEPA determination does not require a tailored NEPA provision. Review completed by Rebecca McCord 9/2/2015.

SIGNATURE OF THIS MEMORANDUM	CONSTITUTES A RECORD OF THIS DECISION.
NEPA Compliance Officer Signature:	Signed By: Kristin Kerwin Date: 9/8/2015
ical, and engineering surveys and	NEPA Compliance Officer
FIELD OFFICE MANAGER DETERMIN	ATION
☐ Field Office Manager review required	
NCO REQUESTS THE FIELD OFFICE M	ANAGER REVIEW FOR THE FOLLOWING REASON:
Proposed action fits within a categorical Manager's attention.	exclusion but involves a high profile or controversial issue that warrants Field Office
	category and therefore requires Field Office Manager's review and determination.
BASED ON MY REVIEW I CONCUR WIT	TH THE DETERMINATION OF THE NCO:
Field Office Manager's Signature:	Date:
local land use and coning requirements)	Field Office Manager