

PMC-EF2a

(10102)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION**



RECIPIENT: Nevada Institute for Renewable Energy Commercialization

STATE: NV

PROJECT TITLE : Sub-award: Investigating the performance of Residential Thermal Storage Refrigeration (TSR)

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-FG36-08GO88161	GFO-GO88161-013	0

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 (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

Rational for determination:

This NEPA determination applies to a subaward selected by NIREC to receive federal funds. NIREC is proposing to provide federal funds to University of California - Davis to verify the performance of thermal storage refrigeration while reducing the technology risk. UC Davis will analyze the cost, efficiency, and demand response capacity of thermal storage refrigeration; they will also identify necessary stakeholders and technical parameters involved in the technology.

This project will include technical review of existing designs, prototype construction of phase change module, technology validation, and market validation. All aspects of this project will take place at the Advanced Materials and Research Laboratory at the University of California – Davis campus. The University has submitted an R & D Questionnaire which thoroughly addresses the chemical and safety handling protocols as outlined by the University's Environmental Health office and OSHA standards.

This project entails information gathering, dissemination, and indoor bench-scale research through development of a prototype; therefore CX A9 & B3.6 apply.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Eugene Brown 2/10/2011

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

Kristin Kerwin
NEPA Compliance Officer

Date: 2/16/2011