

PMC-EF2a

(2.01.02)

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



RECIPIENT:USEP

STATE: UT

PROJECT TITLE : USEP - DFCM Renewable Energy - USL

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	EE0000083	gfo-0000083-017	EE83

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:

B5.1 Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

Rational for determination:

The Utah State Energy Program proposes to provide \$400,000 of DOE SEP funding to the Unified State Laboratories for a ground mounted 36 kW solar (PV) photovoltaic system. The proposed project will be comprised of four 9 kW arrays of an undetermined brand of silicon PV panels rated between 235 to 245 watts. The system will be net metered and grid connected. The site where the solar arrays will be located was previously disturbed and is currently a parking lot and a landscaped area that are adjacent to the Unified State Health Laboratory facility. The estimated annual energy savings is expected to be a minimum of 68,328 kWh per year.

Per the recipient, the final foot print of the solar PV arrays will be approximately 1824 square feet (4 arrays at 756 square feet per array). The construction site will be approximately 10,000 square feet and all activities associated with soil disturbance will be minimal. The arrays will be mounted on concrete piers 30 inches in diameter. These will be bored piers so the extent of excavation should not exceed the pier diameter. The piers will be approximately 23 feet deep. The system will be connected to the Unified State Health Lab building via an underground boring and a narrow trench. The 4" conduit line will be trenched through a landscaped area and bored under an existing parking lot and connect to the building via an electrical disconnect located in an equipment yard and tie into an existing branch panel in the electrical room. All existing roads will be used for construction traffic. No temporary roads should be required.

The Unified State Health Laboratory facility is located on a parcel owned by the State of Utah in an area officially zoned A-1 Agricultural by Taylorsville City, Utah; however the lots to the north and south of the parcel are in Taylorsville, and are zoned R-M, residential multi-family to the north and C-2, commercial to the south. This southern parcel contains the Calvin Rampton State Building Complex that houses a variety of State agencies.

Potential environmental impacts resulting from the proposed activity:

There will be no or negligible impacts to wetlands, wildlife, water and air quality, noise, cultural visual, threatened and endangered, or any other biological or sensitive habitat as a result of the proposed project due to the site location's placement within an existing developed/disturbed area.

There will be no onsite storage (batteries) associated with this project. Per the recipient, the proposed system will be maintained by the Utah DCFM maintenance staff at the Unified State Health Laboratories facility.

A waste management plan is required from the contractor and all construction debris associated with this proposed project will be recycled or reused to the extent feasible.

Per the recipient, during construction activities the existing storm water drain inlets located within the construction area

are to be protected from sedimentation, per best practices indicated in State of Utah Storm Water Pollution Prevention Plan requirements.

Per the Utah State Energy Program, all SHPO compliance will be met as there is an executed Programmatic Agreement (PA) between Utah SHPO, Utah SEP and the US DOE. Utah SEP has determined that this proposed project meets the PA list of "exemptions" for certain PV system activities (Appendix B, 4, f); "solar PV ground mounted with ground disturbance on previously disturbed sites".

A State building permit is required, but has not been obtained yet; construction activities will not begin until this permit has been obtained.

Based on the above information this project is categorically excluded from further NEPA review under CX number B5.1, Actions to Conserve Energy.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

Completed by B.Knapp

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:


NEPA Compliance Officer

Date:

3/9/11

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:

Field Office Manager

Date:
