PMC-EF2a

(2.04.02)

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

**RECIPIENT:** State of Wisconsin SEP ARRA EE0000163-5N Plus **STATE:** WI

**PROJECT TITLE:** SEP - Recycling of Solar Panels

| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
|---|---|---|---|
| DE FOA 0000052 | DE EE0000163 | GFO-0000163-027 | EE163 |

**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 State of Wisconsin will give 5N a $500,000 loan to purchase equipment for a plant that will recycle solar panels. The company specializes in the production and purification of tellurium, cadmium, selenium, bismuth and antimony as well as related compounds such as cadmium telluride.

With the SEP $500,000 loan, 5N Plus will purchase:

1) An Automated PVDF Cullet Line. This is basically a very large plate glass breaker. The unit grinds glass to be recycled. This unit costs $437K and pictures of the unit can be viewed at a vendor website: http://www.customconveyor.org/crusher/index.html

2) The purchase of a PLC process control panel ($80K). This is a Programmable Logic Controller. It is a specialized computer that is capable of multiple inputs and outputs for the control of an industrial process.

5N Plus will invest $4.1 million in starting this business and will use an existing, five year old, vacant manufacturing plant in the De Forest industrial park with easy access to Wisconsin Highway 19 and Interstate Highway I39/90/94.

The SEP project will not expand the building footprint of the existing building and no construction or repairs of the building will be undertaken in this project.

No new permitting or licensing is needed for the expenditures of these funds.

Waste Stream Requirements

Prior to the expenditure of Federal funds to implement any of the above-mentioned activities, the State of Wisconsin has the affirmative responsibility to ensure or certify that it has been provided by its sub-recipients a waste management plan addressing waste generated by their proposed actions. The plan will describe the sub-recipients plan to dispose of any sanitary or hazardous waste, e.g. construction and demolition debris, old light bulbs, lead ballasts, piping, roofing materials, discarded equipment, debris, asbestos, etc. generated as a result of the proposed project. The sub-recipients must ensure that it will comply with all federal, state and local regulations for waste disposal.

NHPA Requirements

Prior to the expenditure of Federal funds to implement any of the above activities, the Sate of Wisconsin has the

affirmative responsibility to ensure the sub-recipient is in compliance with Sec. 106 of the National Historic Preservation Act (NHPA), consistent with DOE's 2009 letter of delegation of authority regarding the NHPA. If applicable, the sub-recipient must contact the State Historic Preservation Officer.

The proposed project is consistent with activities outlined in CX B5.1 "actions to conserve energy"; therefore, it 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:

Note to Specialist :

EF2a completed by Logan Sholar

**SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.**

NEPA Compliance Officer Signature: _____ Date: 12/22/10

NEPA Compliance Officer

**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