

PMC-EF2a

(2.04.02)

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



RECIPIENT: MN DEPARTMENT OF COMMERCE ARRA EE-0000164

STATE: MN

**PROJECT TITLE :** EMERGING RENEWABLES INDUSTRIES: CIGS LINEAR SOURCE THERMAL DEPOSITION

<b>Funding Opportunity Announcement Number</b>	<b>Procurement Instrument Number</b>	<b>NEPA Control Number</b>	<b>CID Number</b>
	DE-EE-0000164	GFO-10-381	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:

- 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.
- B2.2** Installation of, or improvements to, building and equipment instrumentation (including, but not limited to, remote control panels, remote monitoring capability, alarm and surveillance systems, control systems to provide automatic shutdown, fire detection and protection systems, announcement and emergency warning systems, criticality and radiation monitors and alarms, and safeguards and security equipment).

## Rational for determination:

The State of Minnesota plans to provide \$800,000 in Recovery Act funds to Veeco Instrument, Inc. at 4900 Constellation Drive, St. Paul, MN 55127 for the purchase of equipment and related activities in the manufacturing of thin film solar panels.

Veeco Instruments Inc. is a provider of process and metrology equipment used to manufacture data storage, semiconductor, wireless, lighting and solar equipment. Veeco's St. Paul facility manufactures thermal deposition equipment used to deposit semiconductor materials onto a substrate. This equipment is used in the manufacture of thin film CIGS (copper, indium, gallium, selenium) solar panels. Veeco currently supplies equipment to over 50% of the worldwide CIGS solar cell manufacturers.

Activities to be performed under the proposed scope of work support the manufacturing of high-efficiency CIGS deposition technology and focus on 1) lab and test-line testing and calibration of performance, lifetime and reliability; 2) calibration and optimization of initial manufacturing installation; and 3) tooling and capacity modifications in Veeco's production facility. All activities will take place in Veeco's existing facility; no new construction is involved.

Veeco is licensed to produce and handle waste generated under the scope of work (#MN000067553 issued by Ramsey County Department of Public Health.) No activities will be undertaken that require emissions permitting. The project will not require new operation or waste generation permits.

Based on information provided by the State and recipient, the work identified is classified as Categorical Exclusion B5.1 and B2.2.

**NEPA PROVISION**

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

According to the Project Officer, funding for this project is \$\$800,000. Unless there is a significant change in scope, a change in funding will not affect my determination.

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

NEPA Compliance Officer Signature: \_\_\_\_\_  
NEPA Compliance Officer

Date: 5/19/10

**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: \_\_\_\_\_