

PMC-EF2a

(3.04.02)

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



RECIPIENT: State of Wisconsin SEP ARRA EE000163-Mercury Marine

STATE: WI

PROJECT TITLE : Industrial Energy Efficiency

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE000163	GFO-10-318	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.

## Rational for determination:

The State of Wisconsin will invest \$10,000,000 in Recovery Act funds in support of Mercury Marine's company-wide energy-efficiency improvement efforts. The funding will come from the State's Job Creation and Retention Through Industrial Facilities Reduction of Fossil Fuel Use Market Title.

Mercury Marine, a major U.S. manufacturer of marine engines and motors for civilian, commercial and military applications, will implement the improvements at the following plant locations:

Mercury Marine Co.  
560 - 600 W Pioneer Rd.  
Fond du Lac, WI 54935  
Fond du Lac County (primary location)

4240 N. 127th St  
Brookfield WI 53005  
Waukesha County (second location)

N7480 County Rd UU  
Fond du Lac, WI 54937  
Fond du Lac County (third location)

660 S. Hickory St  
Fond du Lac, WI 54935  
Fond du Lac County (fourth location)

455, 505 Marion Rd  
Oshkosh, WI 54901  
Winnebago County (fifth location)

The suite of energy efficiency improvements will include window replacements, energy efficient air handling and makeup air units (which will also reduce other emissions), energy efficient transformers and HVAC improvements, energy efficient lighting, and process heat efficiency improvements.

This project will result in Wisconsin being able to exceed its pledged energy savings goals contained in its SEP-ARRA Plan. The energy efficiency projects include:

**Air Management Energy Performance Improvements**

The four-fold focus for this project area is to reduce office and factory heating and cooling costs by increasing operations efficiencies with reduced energy cost. Factory Make-up Air and office Roof Top Units will be refurbished or replaced with higher efficiency units for energy savings. Air capture systems will be installed for containment and control of process air exhaust. Process heat recovery systems will be installed towards energy savings. Building Management system upgrades will be completed for proper building balance and air management control by coordination of process exhaust needs with appropriate conditioned air make-up requirements.

**Building Thermal Efficiency Energy Improvement**

High efficiency dock weather seals, leveler seals, loading dock door shelters as well as upgraded higher efficiency window systems will be installed to improve building thermal efficiency and reduce energy consumption.

**Lighting and Electrical Distribution Energy Reduction Projects**

Energy consumption will be reduced while improving factory, office and exterior lighting systems by lighting replacement projects. Pump motor efficiency and VFD applications projects will be completed for energy reduction. Replacement of aged low efficiency transformer and electrical distribution systems with high efficiency products will also provide energy savings and distribution system safety improvements.

**Metal Melting, Casting and Heat Treatment Energy Reduction Projects**

Complete melting process energy savings by higher efficiency furnace insulation and furnace cooling systems. Reduce melting energy by improvements in gas fired combustion air and molten metal holding furnaces. Reduce energy consumption by automation or cycle time reduction of die cast and heat treatment systems.

**Machining, Coating and Finishing Energy Reduction**

Provide energy performance improvements by high energy efficiency machining equipment upgrades, cycle time improvements and process optimizations. Consolidation of wet paint systems as well as implementation of new powder paint processes for reduced energy footprint.

The project will not expand the footprint of the existing buildings and no construction or repairs of the building will be undertaken. The project requires no new permitting or licensing.

In view of the information provided by the State and recipient, including assurances by the recipient to follow State and local laws for waste disposal and the preservation of historical sites, if applicable, by working through the State Historical Preservation Office, and given that the work identified involves actions to conserve energy and implement energy conservation, I have determined that this project is classified as Categorical Exclusion B5.1.

**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 \$10,000,000. Unless the scope or nature of this work changes, 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: 3/29/10

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