

PMC-EF2a

(2.04.02)

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



RECIPIENT: State Energy Office

STATE: SD

PROJECT TITLE : South Dakota Revolving Loan Funds SEP

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
	EE0000145	GFO-09-152-002	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 South Dakota would use DOE funding for the following:

The following retrofits would be implemented at Black Hills State University and are CX'd:

- Add VFD's to the motors on HVU10, HVU9, HRU5, and HRU3 motors and will add control and VFD's to pool air handling equipment;
- Replace 400 watt metal halide fixtures with high bay florescent fixtures in the gym, upper gym and field house.

These activities comprise actions to conserve energy; therefore they are categorized under CX B5.1.

The following retrofit at Black Hills State University is conditioned pending further NEPA review:

Installation a biomass boiler which would use wood chips and forest slash. The boiler would be connected by a 10-inch main from the west edge of campus to the central heating plant.

The following activities would take place at South Dakota's Human Services Center:

- Insulating the ceiling and outside walls of the Maintenance Storage Building.
- Replacement of doors and windows.

These activities comprise actions to conserve energy; therefore they are categorized under CX B5.1.

The following activities would take place at Northern State University:

- Replacement of windows;
- Installation of ductless air-conditioners

These activities comprise actions to conserve energy; therefore, they are categorized under CX B5.1.

The following activities would take place at South Dakota School of Mines and Technology:

- Lighting replacement;
- Window replacement;

These activities comprise actions to conserve energy; therefore they are categorized under CX B5.1.

The following retrofit at South Dakota School of Mines and Technology is conditioned pending further NEPA review:

Installation of a wood-burning boiler.

The following activities will take place at the South Dakota State Penitentiary:

- HVAC Chiller Upgrade at the Administration Building;
- Window replacement at the Administration Building;
- Upgrade of the Jameson Annex HVAC Chiller;
- Hill Building and Kitchen Lighting Upgrade;
- Unit C HVAC Chiller Upgrade;
- Reclaim Laundry Heat to Preheat Water;
- Project: Reclaim Boiler Heat to Preheat Water Cost

These activities comprise actions to conserve energy; therefore, they are CX'd under B5.1.

The following activities will take place at South Dakota State University:

- Installation of a Combustion Air Pre-Heater;
- Boiler Blowdown Heat Recovery;
- Elimination of the Vacuum Return System;
- Install VFD's and Digital Controls;

These activities comprise actions to conserve energy; therefore, they are categorized under CX B5.1.

The following activities will take place at the University of South Dakota:

- Roof Insulation and Ventilation Project;
- Delzell Window Replacement;
- Dome Energy Reduction Project;
- Fine Arts & Sciences lighting upgrade;
- Law School Lighting Upgrade;
- Patterson Hall Window Replacement

These activities comprise actions to conserve energy; therefore, they are categorized under CX B5.1.

The following activities would take place at the State Veterans Home:

- Window Replacement

This activity comprises actions to conserve energy; therefore it is CX'd under B5.1.

South Dakota will ensure that any waste generated by these activities is disposed of properly and by a licensed contractor. South Dakota will ensure they consult with the State Historic Preservation Officer prior to any activities on historic or culturally significant buildings and prior to any activities that may impact cultural resources.

#### NEPA PROVISION

DOE has made a conditional NEPA determination for this award, and funding for certain tasks under this award is contingent upon the final NEPA determination.

Insert the following language in the award:

You are restricted from taking any action using federal funds, which would have an adverse affect on the environment or limit the choice of reasonable alternatives prior to DOE/NNSA providing either a NEPA clearance or a final NEPA decision regarding the project.

Prohibited actions include:

- Boiler replacement at Black Hills State
- Boiler replacement at South Dakota School of Mines

This restriction does not preclude you from:

All other activities in this NEPA determination.

If you move forward with activities that are not authorized for federal funding by the DOE Contracting Officer in advance of the

final NEPA decision, you are doing so at risk of not receiving federal funding and such costs may not be recognized as allowable cost share.

Note to Specialist :

None Given.

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

NEPA Compliance Officer Signature: Steve Blazek  
NEPA Compliance Officer

Date: 12/17/2009

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

