



# U.S. Department of Energy Categorical Exclusion Determination Form



**Program or Field Office:** Energy Efficiency and Conservation Block Grant Program

**Project Title** WI-TRIBE-LAC DU FLAMBEAU BAND OF LAKE SUPERIOR CHIPPEWA INDIANS

**Location:** Tribe WI-TRIBE-LAC DU WI  
FLAMBEAU BAND  
OF LAKE  
SUPERIOR  
CHIPPEWA  
INDIANS

**Proposed Action or Project Descriptio**

American Recovery and Reinvestment Act:

The Lac du Flambeau Band of Lake Superior Chippewa Indians proposes to conduct the following activities: 1) design a closed-loop geothermal (ground-source heat pump) heating and cooling system for the Lac Du Flambeau Tribal Natural Resources Complex; 2) install an approximately 27-ton, horizontal directional, closed-loop geothermal (ground-source heat pump) heating and cooling system for the Lac du Flambeau Tribal Natural Resources Complex; and 3) install approximately twelve (12) water-to-air heat pumps, with sizes ranging from approximately 1 ½ to 4 tons and one 5-ton, two-stage, water-to-water heat pump. The geothermal system will reduce the need for liquefied petroleum space heating within the complex. The system will also be used as a demonstration for community outreach in order to promote renewable energy and alternatives to fossil fuel heating and cooling. The project is located adjacent to a new building with construction currently underway, and this area is a previously disturbed area that has been used as a parking lot for approximately 20 years. Approximately twenty-four (24) horizontal directional bore wells will be drilled that will be connected to the water-to-air heat pumps. A storm water pollution prevention plan has been developed, reviewed, and approved. The site has also been reviewed by the Natural Resources Department and Tribal Historic Preservation Office (which includes threatened and endangered species, as well as any impacts to archeological and cultural resources), and a permit has been issued granting permission to proceed with the project without restriction. The individual heat pumps are connected to an energy recovery ventilator unit. The unit takes building exhaust air through a heat wheel and recovers heat for incoming building outside ventilation air requirements. The water-to-water heat pump providing hot water to the in-floor radiant heating system will also be connected to the geothermal loop field.

Conditions: None

Categorical Exclusion(s) Applied: B5.1, B5.19

\*-For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, see Subpart D of 10 CFR 10 21

This action would not: threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive Orders; require siting, construction, or major expansion of waste storage, disposal, recovery, or treatment facilities, but may include such categorically excluded facilities; disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; or adversely affect environmentally sensitive resources (including but not limited to those listed in paragraph B.(4)) of Appendix B to Subpart D of 10 CFR 1021). Furthermore, there are no extraordinary circumstances related to this action that may affect the significance of the environmental effects of the action; this action is not "connected" to other actions with potentially significant impacts, is not related to other proposed actions with cumulatively significant impacts, and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211.

Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

ORO NEPA Compliance Officer

**Gary S. Hartman**

Date Determined:

12/6/2011

Record ID: 194



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Comments:

Webmaster: