

DE09-046



Ms. Debra A. Howland
Executive Director and Secretary
State of New Hampshire
Public Utilities Commission
21 S. Fruit St, Suite 10
Concord, NH 03301-2429

Re: Renewable Energy Resources Eligibility for Green Mountain Power's Vergennes Hydroelectric Project

Dear Ms. Howland:

Please find enclosed the request by Green Mountain Power Corporation ("GMP") for Certification of its Vergennes Hydroelectric Project as a partially Class I Renewable Energy Source. We have enclosed a Renewable Energy Source Eligibility Form ("RESEF") for the GMP 2.6 MW hydroelectric facility located in Vergennes, Vermont ("the Project").

The Project is located on Otter Creek and consists of two powerhouses: Plant 9 located on the south shore and Plant 9B located on the north shore. The powerhouses are separated by three spillway sections that are divided apart by two islands. Center Island divides the 9B Spillway from the Center Spillway and the Grist Mill Island divides the center spillway from the Plant 9 Spillway.

The Plant 9B station was originally constructed in 1943 and consists of a single 1,000 kW vertical Francis turbine directly connected to a generator. The Plant 9 station was originally constructed in 1912 and consisted of two identical 700 kW horizontal Francis turbines. Regular maintenance was performed and significant investments were made in the plants prior to the most recent upgrade.

In 2006 and 2007, the two existing Plant 9 turbines were replaced with new double discharge Francis turbines. The new modern design units increased the efficiency of the units with a moderate increase (13 cfs) in the hydraulic capacity of the units. The new installed capacity of the entire station is 2,600 kW; an increase of 148 kW. The modern, high efficiency units result in an average increase of 2,388 MWh of total annual net energy production at the facility. These upgrades began commercial operation on January 24, 2006 and January 16, 2007 respectively.

An RESEF has been prepared under the assumption that the Project's incremental output from the efficiency and capacity upgrades in 2006 and 2007 would qualify as a Class I Renewable Energy Source pursuant to PUC Rules 2502.10. For purposes of this application, the Project's average annual generation from January 1, 1986 to December 31, 2005 has been used to establish the Historical Generation Baseline. Incremental production from the 2006 and 2007 upgrades are proposed to qualify as Class 1 generation.

As shown in the RESEF, the Project's Historical Generation Baseline is 9,422 MWh. Therefore, GMP is requesting that the Commission certify the incremental production over 9,422 MWh a year as a Class I Renewable Energy Source.

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If you have any questions or require additional information, please contact me at (802) 655-8542.

(Signature)

Marin R. Fosdick

Enclosures: