



EHWF-MR-19

November 11, 2003

Mr. Mathew Rubin, Pres.  
East Haven Windfarm  
26 State Street  
Montpelier, VT 05602

re: design of East Haven Windfarm and interconnection facilities

Dear Mr. Rubin:

Enclosed is a one-line drawing of the East Haven Windfarm and 34.5 kV transmission line facilities designed to interconnect the project to the Burke Mountain substation on the Lyndonville Electric Dept. (LED) system.

As designed, the facilities will not adversely affect the stability and reliability of the electrical system, either locally or regionally. We have reviewed and evaluated the following areas of possible concern:

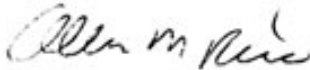
1. Thermal Capability - The existing and proposed equipment is thermally adequate to support the proposed wind generation. All line conductors and equipment will be operating within the design ratings.
2. Voltage Regulation - The wind farm generation employs a sophisticated voltage based control system. This control system will ensure that there will be no voltage fluctuations visible to LED's existing customers due to the operation of this equipment.
3. Short Circuit Protection - The existing and proposed facilities will be designed so as to recognize and sectionalize faults on the 34.5 kV line extension. There will be no impact on service reliability for LED's existing customers due to the addition of this equipment.
4. Safety - The proposed facilities will incorporate a visible disconnecting means to isolate the equipment for maintenance. Electrical control interlocks will be used to make it impossible to inadvertently parallel two out of phase electrical systems. The vertical spacing between the proposed 34.5 kV line and the existing 12.5 kV distribution system at supporting structures will be sufficient to provide an adequate margin for worker safety.

5. CVPS - The proposed facilities will incorporate any relay and control changes or metering and communications equipment required by CVPS or VELCo.

The basic design of the facilities, as reflected in the attached drawings, is electrically sound and will not adversely affect the stability and reliability of the local and regional electrical system. There may be minor changes to the one line drawing as the final engineering details are completed.

In addition, there is nothing about the electrical design of the facilities that will pose a threat to public health or safety. The facilities will be designed in accordance with the latest revision of the National Electrical Safety Code. The 34.5 kV transmission line and the equipment used for interconnection at each end will be specified, designed and constructed in a manner consistent with good industry practice, accepted standards and the approval of the Lyndonville Electric Department.

Sincerely,



Allan M. Rice, PE  
Principal Engineer

Enclosure

Cc: Mr. Kenneth C. Mason, Lyndonville Electric Department