

## RENEWABLE ENERGY RESOURCES ELIGIBILITY GDS TEAM RECOMMENDATION For Consideration By The STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION

(Version 6 – August 20<sup>th</sup>, 2013)

**Date:** May 23, 2014 **Docket #**: 4487

## **Generation Unit and Contact Information:**

Unit Name: West Charleston Hydro

*Unit Owner:* Great Bay Hydro Corporation

Unit Size (max. MW): 0.675 Location (city, state): West Charleston, VT

Commercial Operation Date: April 13, 2011

Contact Name, Numbers and Address: Mr. William C. Rodgers, Director of Operations, Great Bay Hydro Corporation, 1 New Hampshire Avenue, Suite 207, Portsmouth, NH 03801 Phone: (603) 294-4850 Fax: (603) 457-6013 Email:

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Authorized Representative Name, Numbers and Address: Mr. William C. Rodgers, Director of Operations, Great Bay Hydro Corporation, 1 New

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## **Application Received:** Date: February 18, 2014

Comments: An information request clarifying whether the facility is at the site of an existing resource was sent on 5/6/14 with the response on 5/12/14 including a corrected application and Appendix C, evidence of the units COD, and a Power Point Presentation to clarify the situation. It clarified that the Facility is at the site of an existing generation unit at the West Charleston Dam. The facility replaced all equipment associated with the existing generation unit which stopped producing power in 1998. Therefore, it shall apply as a repowered generation unit.

Type of Certification Requested:  ⊠ Standard Certification □ Prospective Certification (Declaratory Judgment)
Generation Type and Technology Information: (check all that apply)  ☐ Repowered Project ☐ Incremental Generation ☐ Incremental Intermitter ☐ Customer-Sited or Off-Grid System (or associated aggregations)

Generation Unit Located in Control Area Adjacent to NEPOOL:
Solar Wind Ocean Thermal Geothermal Small Hydro
☐ Eligible Biomass ☐ Unlisted Biomass ☐ Biomass (fossil co-fired/multi-fuel
☐ Fuel Cell (using an eligible renewable resource)
Recommendation:
Approve (GIS Certification #: NON33252)  Reject Public Hearing
Needed
□ Existing Renewable Energy Resource  New Renewable Energy Resource
Capable of Producing as Both Existing & New Renewable Energy Resource
Comments:

## RENEWABLE ENERGY RESOURCES ELIGIBILITY DETAILED GDS TEAM APPLICATION REVIEW RESULTS

(Template V5 – 11/15/11)

Date of Final Review: 5/23/2014

Note: Depending on the type of application (project vintage, type, location, fuel source, etc.) not all of these data items will be applicable.

Renewable Energy Resource – Vintage (see appropriate Sections of RES Regulations, Application Sections 3.1-3.9 and Appendix C):  A.1 Generation Unit meets the definition of an Existing Renewable Energy Resource noted in RES Regulations Section 3.10 (first entering commercial operation before 12/31/1997).  Comments: Repowered Generation Unit (see below)
A.2 Generation from the Unit meets one of the definitions of New Renewable Energy Resource in RES Regulations Section 3.23.
Comments: The repowered generation unit began operations on 11. Evidence came in photograph form and information from the ent vendor.
A.2.1 If Generation Unit is at a new site, adequate documentation is provided to ensure that it first entered commercial operation after December 31, 1997.    Yes No N/A Comments: It is at the site of the old West Charleston Dam, an Existing but retired generation unit. The facility utilizes the old impoundment from the original renewable resource.
A.2.2 If Generation Unit is at the site of an Existing Renewable Energy Resource, adequate documentation is provided to ensure that it first entered commercial operation after December 31, 1997 and that the Existing Renewable Energy Resource has been retired and replaced with such new Generation Unit.   Yes  No  N/A Comments: Repowered Generation Unit
A.2.3 If a Repowered Generation Unit (as defined in Section 3.29 of the RES Regulations – complete replacement of Prime Mover, material increase in efficiency or material decrease in air emissions, and demonstration that at least 80% of resulting tax basis of the entire Generation Unit's plant and equipment is derived from capital expenditures made after December 31, 1997), adequate documentation is provided to ensure that the entire output of said unit first entered commercial operation after December 31, 1997 at the site of existing Generation Unit.    Yes   No   N/A Comments: Yes. It meets the three criteria: A) It completely dits prime mover (penstock, turbine, and generator were all replaced)

B) Material increase in efficiency (25% increased annual generation) and C) >80% of tax basis of plant and equipment is derived from capital expenditures post 12/31/97. All of the current plant and equipment was installed from 2010-2011 (Entirely new penstock, powerhouse, generator turbine etc with the old equipment gatehouse, penstock etc) removed). Information provided by way of a 29 slide presentation by Great Bay Hydro. A.2.4 If a multi-fuel facility, adequate documentation is provided to ensure that the renewable energy fraction of output from a Generation Unit in which an Eligible Biomass Fuel is first co-fired with fossil fuels after December 31, 1997. 

Yes No N/A Comments: A.2.5 If Incremental Output from a <u>non</u>-Intermittent Existing Renewable Energy Resource, adequate documentation is provided to ensure that such output is attributable to capital investments for efficiency improvements or additions of capacity that were demonstrably completed after December 31, 1997 and that are sufficient to, were intended to, and can be demonstrated to increase annual electricity output in excess of ten percent (10%) over a Historical Generation Baseline as determined per Section 3.23.v of the RES Regulations. ☐ Yes ☐ No ☒ N/A Comments: A.2.6 If Incremental Output from an Intermittent Existing Renewable Energy Resource, adequate documentation is provided to ensure that such output is attributable to capital investments for efficiency improvements or additions of capacity that were demonstrably completed after December 31, 1997 and that are sufficient to, were intended to, and can be demonstrated to increase annual electricity output in excess of ten percent (10%) over a Historical Generation Baseline as determined per Section 3.23.vi of the RES Regulations. ☐ Yes ☐ No ☐ N/A Comments: See above- Repowered Generation Unit Eligible Customer-Sited/Off-Grid Generation Facility: В. ☐ Yes ⊠ No (see appropriate Sections of RES Regulations, Application Section 5 and Appendix D) B.1 Adequate documentation provided to ensure that NEPOOL GIS Certificates are created by way of an aggregation of Generation Units, physically located in the State of Rhode Island, using the same generation technology (see RES Regulations Section 6.8.i). Yes No Comments: N/A B.2 Proposed Aggregation Agreement (as specified in Section 6.8.iii of the RES Regulations) is reasonable and complete. | Yes | No Comments: N/A

informa	Aggregation Agreement includes name and cation of the aggregator owner. Dents: N/A	ontact Yes	☐ No
B.2.2 Aggregation Agreement includes name and contact information and adequate evidence of qualifications of the Verifier to ensure that the Verifier will accurately and efficiently carry out its duties.  Yes No Comments: N/A			
	B.2.2.1 Additional evidence of Verifier quali requested and provided.   Comments: N/A	fications No [	□ N/A
busine sufficie with Se owners	Aggregation Agreement includes a declarations or financial relations between aggregator agent to ensure the independence of the Verifier ection 6.8.iii.c of the RES Regulations (10% of ship in voting stock, or family officer/etc).	and Verifi in accord	er
	B.2.3.1 Aggregation Agreement includes standicating under what circumstances the Veribe considered sufficiently independent of the Generation Unit, and that Generation Units no independence test would not be allowed to paggregation.  Comments: N/A	fier would individua ot meetin	l g this
will be the age meet a locatio	Aggregation Agreement identifies the type of included in the aggregation and provides a st gregation will include only individual Generational the requirements of the RES Regulations (part, vintage, etc.). sents: N/A	atement on Units t	that
propos Verifie aggreg NEPO (see S	Aggregation Agreement provides an adequat sed operating procedures for the aggregation, r shall ensure that individual Generation Units gation comply with all eligibility requirements a OL GIS Certificates created accurately represection 6.8.iii.e of the RES Regulations).	by which in the and that th	the ne

	<ul> <li>B.2.5.1 At a minimum the proposed operating procedures include reasonable and sufficient details for: <ul> <li>Determining that the Generation Unit exists and is in compliance with RES Regulations and Commission-approved Aggregation Agreement.</li></ul></li></ul>
	<ul> <li>Documenting a procedure to verify independently that the GIS Certificates created for the aggregation are consistent with the meter readings.  Yes No</li> <li>Correcting discrepancies in NEPOOL GIS Certificate generation identified by the Verifier.  Yes No</li> <li>Comments: N/A</li> </ul>
	B.2.6 Aggregation Agreement provides an adequate description of how the Verifier will be compensated for its services by the aggregator (in no instance is the Verifier is compensated in a manner linked to the number of NEPOOL GIS Certificates created by the aggregation).
C.	Generation Unit Location (see appropriate Sections of RES Regulations, Application Section 5 and Appendix E):
	C.1 Generation Unit is located in NEPOOL Control Area.   ☐ Yes ☐ No Comments: 44 Gratton Hill Road, West Charleston, VT 05872
	C.1.1 Generation Unit is located in Rhode Island. ☐ Yes ☒ No Comments: 72.0545 W / 44.8953 N
	C.2 Generation Unit is located in a control area adjacent to NEPOOL and, in accordance with Section 5.1.ii of the RES Regulations, will apply the associated Generation Attributes to the RES only to the extent that the energy produced by the Generation Unit is actually delivered into NEPOOL for consumption by New England customers.   Yes No Comments:
	C.2.1 Applicant acknowledges that satisfactory documentation (i.e., a report from neighboring Generation Attribute accounting system or an affidavit) must be provided to verify that Generation Attributes from a Generation Unit located in a control area adjacent

	to NEPOOL have not otherwise been, nor will be, sold, retired, claimed or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Rhode Island (such assurances may consist of a report from a neighboring Generation Attribute accounting system or an affidavit from the Generation Unit)    Yes   No Comments: N/A
	<ul> <li>C.2.2 Applicant acknowledges that energy delivered from such Generation Unit into NEPOOL will be verified by the following: <ul> <li>A unit-specific bilateral contract for the sale and delivery of such energy into NEPOOL</li> <li>Confirmation from ISO that the energy was actually settled in the ISO Market Settlement System, and</li> <li>Confirmation through the North American Reliability Council tagging system that the import of the energy into NEPOOL actually occurred, or such other requirements as the Commission deems appropriate</li> <li>Yes No</li> </ul> </li> </ul>
D.	Eligible Fuel Source – Solar, Wind, Ocean Thermal, Geothermal, or Fuel Cell (using an eligible renewable resource) (see appropriate Sections of RES Regulations and Application Section 2.4):
E.	Eligible Fuel Source – Small Hydro Facilities (see appropriate Sections of RES Regulations and Application Sections 2.5-2.6):
	E.1 Aggregate capacity does not exceed 30 MW.
	E.2 If "New Renewable Energy Resource", applicant acknowledges that facility does not involve any new impoundment or diversion of water with an average salinity of 20 parts per thousand or less.  ☐ Yes ☐ No Comments: Existing West Charleston Dam from 1903
F.	Eligible Fuel Source – Biomass Facilities (see appropriate Sections of RES Regulations, Application Sections 2.7 and Appendix F): Yes No N/A
	F.1 Generation Unit uses a biomass fuel source listed in RES Regulations Section 3.7.
	F.2 If source is other than RES Regulations Section 3.7-listed, said source has been designated as "clean wood".

Fuel Source Plan can reasonably be expected to ensure that only Eligible Biomass Fuels will be used, and in the case of co-firing ensure that only that proportion of generation attributable to an Eligible Biomass Fuel be eligible. ☐ Yes ☐ No Comments: N/A F.3.1 Fuel Source Plan specifies the type of Eligible Biomass Fuel to be used. ☐ Yes ☐ No Comments: N/A F.3.2 If proposed fuel is "clean wood", Fuel Source Plan provides adequate substantiation as to why the fuel source should be considered a clean wood. Yes No N/A Comments: N/A F.3.3 In the case of co-firing with a fossil fuel, Fuel Source Plan includes an adequate description of how such co-firing will occur and how the relative amounts of Eligible Biomass Fuel and fossil fuel will be measured, and how the eligible portion of generation output will be calculated (with such calculations based on the energy content of the proposed fuels used). Yes No N/A Comments: N/A F.3.4 Fuel Source Plan includes an adequate description of what measures will be taken to ensure that only the Eligible Biomass Fuel is used (e.g., standard operating protocols or procedures that will be implemented at the Generating Unit, contracts with fuel suppliers, testing or sampling regimes). Yes No Comments: N/A F.3.5 Fuel Source Plan includes adequate assurance that the fuels stored at or brought to the Generation Unit will only be Eligible Biomass Fuels or fossil fuels used for co-firing. Yes No Comments: N/A F.3.6 If proposed fuel includes recycled wood waste, Fuel Source Plan provides adequate documentation to ensure that such fuel meets the definition of Eligible Biomass Fuel and also meets material separation, storage, or handling standards acceptable to the Commission and furthermore consistent with the RES Regulations. ☐ Yes ☐ No ☐ N/A Comments: N/A

Comments: N/A

	F.3.7 Applicant certifies that it will file all reports and other information necessary to enable the Commission to verify the ongoing eligibility of the renewable energy generators pursuant to
	Section 6.3 of the RES Regulations.
	Comments: N/A
	F.3.8 A copy of the Generation Unit's Valid Air Permit or equivalent authorization has been attached and the effective date and issuing state or jurisdiction has been identified.   Yes No N/A
	Comments: N/A
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G. Other Comments/Observations: