

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

(Version 6 – August 20th, 2013)

Date: September 20, 2013

Docket #: 4423

Generation Unit and Contact Information:

Unit Name: PEMIGWAS - INDECK ALEXANDRIA

Unit Owner: Indeck Energy- Alexandria, LLC

Unit Size (max. MW): 15.2 MW *Location (city, state):* Alexandria, NH *Commercial Operation Date:* January, 1988 through November 1994, followed by approximately 13 years of non-operation and then a return to Commercial Operation starting again in November 2008

Contact Name, Numbers and Address: Mike Ferguson, VP Operations and Asset Management, Indeck Energy Services, 600 North Buffalo Grove Road, Suite 300, Buffalo Grove, IL 60089. Phone: (847) 520-3212 Fax: (847) 520-9883 Email: MFerguson@indeck-energy.com

Backup: William Garth, Director of Finance, Indeck Energy Services, 600 North Buffalo Grove Road, Suite 300, Buffalo Grove, IL 60089. Phone: (847) 520-3212 Fax: (847) 520-9883 Email: BGarth@indeck-energy.com

Authorized Representative Name, Numbers and Address: Mike Ferguson, VP Operations and Asset Management, Indeck Energy Services, 600 North Buffalo Grove Road, Suite 300, Buffalo Grove, IL 60089. Phone: (847) 520-3212 Fax: (847) 520-9883 Email: MFerguson@indeck-energy.com

Application Received: Date: June 25, 2013 Comments: Supplemental information received on September 18, 2013

Type of Certification Requested:

Standard Certification Prospective Certification (Declaratory Judgment)

Generation Type and Technology Information: (check all that apply)

	Repowered Project Incremental Generation Incremental Intermittent
	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
\boxtimes	Eligible Biomass Unlisted Biomass Biomass (fossil co-fired/multi-fuel)
	Fuel Cell (using an eligible renewable resource)

Recommendation:

Approve (GIS Certification #: MSS14211) Reject Public Hearing Needed

Existing Renewable Energy Resource X New Renewable Energy Resource
 Capable of Producing as Both Existing & New Renewable Energy Resource

Comments: The facility's designation as 100% New is based on RES section 3.23.v. and determination fo the incremental output over the Historical Generation Baseline Period of 1995-1997. In addition, it is important to note that, although not requesting certification under the RES Repowering designation, since although significantly updated, they did not completely replace the Prime Mover (the boiler), the applicant provided substantial evidence to support such a designation (with a new air permit and >80% of the value of the facility due to post 1997 refurbrishmetns).

RENEWABLE ENERGY RESOURCES ELIGIBILITY DETAILED GDS TEAM APPLICATION REVIEW RESULTS

(Template V5 – 11/15/11) Date of Final Review: September 20, 2013

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

A. 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).
X Yes No Comments: First operated Jan, 1988

A.2 Generation from the Unit meets one of the definitions of New Renewable Energy Resource in RES Regulations Section 3.23.

Comments: Repowered: Shut down in Nov 1994, came back online after capital investment and new air permit in Nov, 2008.

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 X/A Comments: Not a New Site

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. \Box Yes \Box No \boxtimes N/A Comments: Not replaced

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.

Comments: The facility was completely disconnected from the grid from Nov 1994-Feb 2008.New air permit granted in 2008, 85% of taxable worth of the facility was due to upgrades, but the entire prime mover was not replaced (it was significantly updated).Therefore the facility has chosen to get a New designation by using its 0 MWh baseline period. 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.

Comments: Capital investments allowed for the completely disconnected and permit-less facility to get an air permit, reconnect to the grid, and make up 85% of its current value. Since the unit was shut down and disconnected during the baseline period the baseline is 0 MWh and therefore 100% of current output is NEW.

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 X/A Comments: Non-intermittent

B. Eligible Customer-Sited/Off-Grid Generation Facility: 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). Comments: N/A

B.2 Proposed Aggregation Agreement (as specified in Section 6.8.iii of the RES Regulations) is reasonable and complete.

B.2.1 Aggregation Agreement includes name and contact information of the aggregator owner. Comments: N/A

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.

Comments: N/A

B.2.2.1	Additional evidence	of Verifier qual	ifications	S
requeste	d and provided.	Yes	🗌 No	🛛 N/A
Commen	its: N/A			

B.2.3 Aggregation Agreement includes a declaration of any and all business or financial relations between aggregator and Verifier sufficient to ensure the independence of the Verifier in accordance with Section 6.8.iii.c of the RES Regulations (10% or more ownership in voting stock, or family officer/etc).

B.2.3.1 Aggregation Agreement includes statement indicating under what circumstances the Verifier would not be considered sufficiently independent of the individual Generation Unit, and that Generation Units not meeting this independence test would not be allowed to participate in the aggregation.

B.2.4 Aggregation Agreement identifies the type of technology that will be included in the aggregation and provides a statement that the aggregation will include only individual Generation Units that meet all the requirements of the RES Regulations (physical location, vintage, etc.). □ Yes ○ No Comments: N/A

B.2.5 Aggregation Agreement provides an adequate description of proposed operating procedures for the aggregation, by which the Verifier shall ensure that individual Generation Units in the aggregation comply with all eligibility requirements and that the NEPOOL GIS Certificates created accurately represent generation (see Section 6.8.iii.e of the RES Regulations).

B.2.5.1 At a minimum the proposed operating procedures include reasonable and sufficient details for:

- Meter reading procedure that allows the Verifier to verify these readings (manual or remote, via the aggregators own system or an independent system) in a manner fully compliant with NEPOOL GIS Operating Rules regarding metering. Yes X No

- Correcting discrepancies in NEPOOL GIS Certificate generation identified by the Verifier. □ Yes ⊠ No Comments: N/A

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. Xes No Comments: Alexandria, NH

C.1.1 Generation Unit is located in Rhode Island. \Box Yes \boxtimes No Comments: Alexandria, NH

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 othe	er than Rhode
Island (such assurances may consist of a report	from a neighboring
Generation Attribute accounting system or an at	fidavit from the
Generation Unit)	🗌 Yes 🛛 No
Comments: N/A	

C.2.2 Applicant acknowledges that energy delivered from such Generation Unit into NEPOOL will be verified by the following:

- A unit-specific bilateral contract for the sale and delivery of such energy into NEPOOL
- Confirmation from ISO that the energy was actually settled in the ISO Market Settlement System, and
- 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

 \Box Yes \boxtimes No

Comments: N/A

D.	Eligible Fuel Source – Solar, Wind, Ocean	Thermal, Geoth	ermal, or Fuel
	Cell (using an eligible renewable resource)	(see appropriate	Sections of RES
	Regulations and Application Section 2.4):	🗌 Yes	🛛 No 🗌 N/A
	Comments:		

E.	Eligible Fuel Source - Small Hydro Facilities (see ap	opropriate	Sections of	of RES
	Regulations and Application Sections 2.5-2.6):	Yes	🖂 No	🗌 N/A

E.1	Aggregate capacity does not exceed 30 MW.	🗌 Yes	🗌 No
Com	nments: N/A		

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.

F. Eligible Fuel Source – Biomass Facilities (see appropriate Sections of RES Regulations, Application Sections 2.7 and Appendix F): Xes No N/A

F.1	Generation Unit uses a biomass fuel source listed in	n RES	
Regula	ations Section 3.7.	🛛 Yes	🗌 No
Comm	ents: Clean Wood Chips		

F.2	If source is other than RES Regulations Section 3.7-	-listed, sa	id
source	has been designated as "clean wood".	Yes	🗌 No
Comm	ents: N/A		

F.3Fuel 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. \square Yes \square No

Comments: Inspection of every load of wood chips

F.3.1 Fuel Source Plan specifies the type of Eligible Biomass Fuel to be used.

Comments: Wood chips from local forrest products company. Illegal to burn non clean wood in NH

> 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). \Box Yes \Box No \boxtimes N/A Comments:

metal, paint, stain, varnish, glue, resin and other chemicals. Ground construction and demolition debris are not accepted.

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:

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: Only wood chips 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.

 \boxtimes Yes \square No \square N/A

Comments:

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: Temporary Air permit granted in 2008, expired in 2009, but extended until Aug 2010. Then the facility applied for a full Title V air permit and has been operating under the "permit shield" until the permit is approved.

G. Other Comments/Observations: Originally the application listed the capacity as 16 MW but information given on 9/18/13 indicated that the actual capacity was 15.2 MW.