

Vermont Public Utility Commission Attachment 1 to Rule 5.500 Form Instructions

Instructions to complete the “Standard Application for Interconnection of a Generation Resources in Parallel to the Electric System”.

Section 1. Applicant Information

- A. *Legal Name of Interconnecting Applicant.* Use legal name of the interconnecting corporation or name of individual with mailing address, phone numbers and e-mail address.
- B. *Alternative contact information.* Use for engineering firm contact or local contact information for out-of-state applicants.
- C. *Will Generation Resource be used to supply Internal loads* (other than loads that serves the station itself). For example, if generation is feeding power to industrial loads prior to exportation to the utility, answer “Yes.”
If Net-Metered or less than 100% of the power output (except what serves the station itself) is going onto the power grid, answer “Yes.”
If serving retail customers, answer “Yes.” (If generation is supplying other Electric Utility customers’ loads, discuss your plans with your interconnecting utility.)
If generation is a participant in the Sustainably Priced Energy Enterprise Development (“SPEED”) Standard Offer Program answer “No.”
- D. *For generators installed at locations with existing electric service.* Answer if generation location already has electric service; skip if a new connection point is required.
- E. *Additional Information.* Provide utility Line and Pole number of the interconnection point if known; if not known, use other specific location information. Also provide expected in-service date, the date generation is planned to be on-line.

Section 2. Generator Qualifications

Provide data on prime mover (energy source), generator type and total generation plant nameplate ratings for KW and kVAR. Include any site loads (*i.e.*, include load that serves the station itself here) and provide the maximum expected generation output capacity in KW (for example 2,200 KW).

Section 3. Generator Technical Information

- A. *Information on rotating machines, synchronous and induction generators.* (For inverters or DC systems skip to section 3(C).) This data is available from the generator manufacturer. Some data may not be known until the generator is manufactured, applicant may work with the manufacturer to provide “Typical” or “Average” data. Be sure to note any “Typical” or “Average” data on the application form and prepare to supply actual data when available. Information noted with * may not be applicable for some types of generators.

- B. *Information on Wind Turbines.* For Wind Turbines answer questions in this section as well as in section 3(A) for induction wind turbines *or* 3(C) for inverter-based wind turbines as applicable.
- C. *Information for Solar or DC Sources.* For Solar or DC sources answer questions in this section (do not fill out section 3(A) if filling out this section). Provide information on the inverter(s) and for solar provide manufacturer information on the panels.

Section 4. Interconnection Equipment Technical Data (Skip this section if generation is less than 20 KW.)

Provide information on the interconnection GSU (transformer). Size and impedance information is located on the transformer name plate or available from the transformer manufacturer.

Provide the GSU primary and secondary voltages and winding configurations.

Provide data on the interconnecting circuit breaker if applicable.

Provide manufacturer or name plate data for any Current Transformers (CTs) or Potential Transformers (PTs).

Section 5. General Site information

- A. *One-Line Diagrams.* Provide copies of One-Line Diagrams showing the generation facility equipment; this is required for all projects. Projects over 150 KW in size require the One-Line Diagrams to be signed and stamped by a licensed Electrical Engineer (PE).
- B. *Site Documentation.* Provide detailed information on protection and control schemes. (Not required for Inverter connected generation meeting UL 1741 and IEEE 1547 requirements.)
- C. *Schematics Drawings.* Provide schematics for control circuits, relay current and potential circuits and alarming circuits. (Not required for Inverter connected generation meeting UL 1741 and IEEE 1547 requirements.)
- D. *Site Documentation.* Site *location* can be provided using USGS maps, hand-drawn maps showing details of the area and generation location, or electronic maps/photographs (*e.g.*, GoogleEarth.com or Mapquest.com).

Section 6. Check List: Required Fee and Enclosures

Check list to confirm that required fee and documents are enclosed.

Section 7. Applicant Signature

Form should be signed and dated by a duly authorized agent of the company or owner if an individual applicant.

Distribution

Send original application form and all attachments to the interconnecting utility. For SPEED Standard Offer Program participants, a copy of the application form must be sent to:

VEPP Inc. Attn: John Spencer
P. O. Box 1938
Manchester Center, VT 05255