

SRSG Operating Procedure No. 1

Resource Reserve Qualification

Issue Date: 11/3/97

Revision Date: 04/23/19

1. Purpose

The purpose of this Operating Procedure No. 1 is to establish the criteria to qualify resources for reserves in the SRSG, and to establish procedures to complete the SRSG Resource Reserve Qualification Forms.

2. General

- 2.1 To qualify a resource for Spinning Reserve and Non-Spinning Reserve, Parties shall update resource data in the Reserve Sharing System (RSS).
- 2.2 It is each Party's responsibility to update resource information as frequently as is needed.

3. Generators

- 3.1 Parties may carry summer and winter ratings for each unit. If only one rating is utilized testing must be performed during the period of May 1 through September 30.
- 3.2 Units shall be tested to verify each rating.
 - 3.2.1 Wind generators and Solar Resources: the "nameplate" rating provided from engineering specifications shall be used to determine the unit's capacity.
 - 3.2.2 Hydro units: test duration shall be one hour. The integrated output over the hour shall be used for the unit's capacity.
 - 3.2.3 Simple cycle combustion turbines: test duration shall be one hour. The integrated output over the hour shall be used for the unit's capacity.
 - 3.2.4 Steam units: The test duration for all steam units shall be two consecutive hours. The lowest hourly integrated output during the two hour test period shall be used for the unit's capacity.
 - 3.2.5 Combined cycle plants (i.e. "1-on-1" and "2-on-1"): Parties shall provide individual ratings for each unit or possible combination. With metered output, the 1-on-1 configuration rating may be derived from the tested capacity of the 2-on-1 configuration divided by two.

- 3.2.6 Quick-start combustion turbines: shall be tested to verify the ability of the unit to come on-line and serve demand within ten minutes.
- 3.2.7 Battery Energy Storage System: The test duration shall be for one hour. The integrated output over the hour shall be used for the unit's capacity. The battery is a synchronized fast ramping unit.
- 3.2.8 Ramp rates: shall be tested to determine the amount of unloaded generation which can serve demand within ten minutes
- 3.2.9 One-minute ramp rate results shall be represented as total capability derived over 10 minutes divided by 10.
- 3.2.10 All tests expire after two years.
- 3.3 Parties shall keep Historian data as proof of resource output capability however, EMS data is acceptable. Parties shall make documentation supporting the current rating and ramp rate available for review by the Operating Committee.
- 3.4 Parties shall keep test documentation for a period of two years or until a subsequent test has been performed.
- 3.5 Testing/reporting for a joint owned unit (JOU) shall be performed by the operating agent of the unit. If the JOU operating agent is not a Party, it shall be the responsibility of the Party claiming such JOU to obtain appropriate testing/reporting information from the JOU operating agent.
- 3.6 Parties shall not claim contingency reserves on units whose test dates have expired. Units with expired ramp tests shall be considered to have a ramp rate of zero. Full capability of a generator may be restored after another test is performed and new data has been submitted via the RSS and approved by the Administrator.

4. Interruptible Load/Exports

To qualify a resource as an interruptible load/export it must meet the following criteria:

- 4.1 Load must be capable of being removed from the system within ten minutes.
- 4.2 Limits on frequency or duration of interruptions must be known. Once limits have been met, this load cannot be claimed for reserves.
- 4.3 Load may be interrupted via notification by phone or switch.
- 4.4 The customer cannot override interruption.
- 4.5 Load does not have to be on a separate circuit.
- 4.6 Interruptible load must be a continuously known quantity.
- 4.7 Demand response products used as non-spinning reserve shall be counted as follows:
 - 4.7.1 Untested products: 50% of the estimated MW

4.7.2 Tested products: 75% of the latest tested MW availability

5. Firm, On-Demand, and Contingent Purchases

Firm, on-demand, and contingent purchases towards reserves shall meet the following criteria:

- 5.1 Unit Contingent purchases must have the specific owner's (or JOU owners') generator(s) identified and must be at least three consecutive months in length.
- 5.2 Contractual ramp rate must be known.
- 5.3 Parties shall have sufficient transmission to support the activation of such purchases to the load center. This includes Spinning Reserve purchases.

6. Resource Reserve Qualification Instructions

Each Party shall provide the following information in the RSS to qualify a resource for carrying reserves.

- 6.1 Generators. Click the New Generator button and enter the following information, as appropriate.
 - 6.1.1 Operator: Enter your company name or acronym.
 - 6.1.2 Effective Date.
 - 6.1.3 Termination Date.
 - 6.1.4 Resource NAME AND NUMBER: Enter the name and number (if applicable) of the generating unit being reported.
 - 6.1.5 JOU: Enter "Y" if the generating unit is a joint owned unit and "N" if unit is wholly owned by reporting member. The operating agent of a joint owned unit is responsible for performing and maintaining testing information on each unit. All joint owned unit participants are to report only their respective capability of the unit on Form A.
 - 6.1.6 Generator TYPE: Select the appropriate type from the drop-down menu.
 - 6.1.7 GOVERNOR Status: Select "Active" if the unit has an active governor or "Inactive" if the unit does not have a governor. If the governor is blocked select "Open".
 - 6.1.8 MW: Enter tested value and test date.
 - 6.1.9 RAMP RATE: Enter the ramp rate of the unit in MW/min and test date.
 - 6.1.10 CAPABILITY IN 10-MINUTES IF OFFLINE: Enter both the unit's capability to serve demand within ten minutes if the unit is off line, and the test date.
 - 6.1.11 Station Service: enter MW required

- 6.2 Interruptible Load/Exports. Click on the New Interruptible Load button and enter the following information, as appropriate. Reporting is required for long-term (1-year or longer) interruptible loads/exports. Reporting is optional for shorter durations.
 - 6.2.1 Owner: Enter your company name or acronym.
 - 6.2.2 Resource Name: Enter the name of the interruptible load/export.
 - 6.2.3 Effective Date / Termination Date: Enter the start and end dates of the interruptible agreement.
 - 6.2.4 Notification Period: Enter the length of notice in minutes that is required prior to interrupting.
 - 6.2.5 Continuously Monitored (CM) Quantity: Enter "Y" if the interruptible load/export quantity is monitored at all times and the control operator has view of such monitored quantity. Enter "N" if the control operator does not continuously monitor it.
 - 6.2.6 Interruption Limits: Enter any limitation(s) on the number or duration of interruptions that are allowed per the contract and the relative time frame. For example, ten interruptions/year.
- 6.3 Firm, On-demand & Contingent Purchases. Click on the New Purchase button and enter the following information, as appropriate.
 - 6.3.1 Owner: Enter your company name or acronym.
 - 6.3.2 Resource Name: Enter the name of the firm, on-demand or contingent purchase. If the purchase is contingent, also include the name of the generator(s) in which the purchase is contingent on.
 - 6.3.3 Effective Date / Termination Date: Enter the start and end date of the purchase.
 - 6.3.4 Capacity: Enter the maximum capacity available under the purchase agreement.
 - 6.3.5 Ramp Rate: Enter the contractual ramp rate of the purchase.
 - 6.3.6 Ten Minute Capacity: Enter the MW of energy available to serve demand within ten minutes if current schedule is zero.
 - 6.3.7 Path: Enter the transmission path being utilized for the purchase.

