



Manual 20

System Restoration Manual

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3.1.3 Black Start Testing Procedures

Black Start Testing procedure requirements shall be designed by the Transmission Operator to ensure Black Start Facilities are able to perform their intended function in the SRP. The number of units to be

included in the Black Start Resource test procedures shall be determined by the SRP requirements to control voltage and frequency.

Each Generator Operator with a Black Start Resource shall prepare Black Start Resource specific testing procedures, perform Black Start Resource tests, and maintain records of such testing, in accordance with the testing requirements set by the Transmission Owner to verify the unit's ability to, following a system-wide blackout, start up and fulfill its requirements in the SRP without the availability of an outside electric supply.

The most current test procedure shall be provided to the NYISO, and in the case of local Black Start Resources, to the appropriate TO, upon request.

3.1.4 Black Start Resource Testing Requirements

The annual test requirements for each Black Start Resource shall include the ability to:

1. Start with no support from the Bulk Electric System.
2. Energize a transmission bus or a generating station switchyard element
3. Operate in a stable condition while isolated from the Bulk Electric System for a minimum of ten minutes.

The Transmission Owner may specify additional testing requirements.

3.1.5 Black Start Testing Frequency

At least once each capability year each Black Start Facility in the NYISO's Reliability Coordinator Area must successfully test or demonstrate the ability of their Black Start unit(s) to perform their intended function as required by the NYISO's or local TO's SRP.

The NYISO shall determine the time within the capability year that the testing shall be completed.

Tests must be coordinated with the NYISO and the TO in whose service territory the unit is located.

6.3 Generator Operator Restoration Training

Each Generator Operator shall participate in NYISO restoration drills, exercises, or simulations as requested by the NYISO.

Each Generator Operator with a Black Start Resource shall provide a minimum of two hours of training every two calendar years to each of its operating personnel responsible for the startup of its Black start Resource generation units and energizing a bus. The training program shall include training on the following:

- System restoration procedure elements requiring coordination with the TO
- Procedures for starting each Black Start Resource and energizing a bus

Each Generator Operator with a Black Start Resource shall maintain training program records showing that operating personnel have been trained in the implementation of Black Start procedures. These records shall be made available to the NYISO upon request.