



Manual 2

Ancillary Services Manual

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7. Black Start Capability Service

This section describes the black start capability service.

7.1. Description

Black start capability represents the key Generators that, following a system-wide blackout, can start without the availability of an outside electric supply and are available to participate in system restoration activities that are under the control of the NYISO or, in some cases, under local Transmission Owner Control. If a partial or system-wide blackout occurs, these units assist in the restoration of the New York Control Area (NYCA). Specific generating units, identified in the NYISO Restoration Plan or, in specific Transmission Owners' local restoration plan(s), have the capability and training required to start up without the presence of a synchronized grid to provide the necessary auxiliary station power.

Generators are required to test their black start capability for each Capability Year. With due regard for reliability considerations and subject to approval by the NYISO and by the

Transmission Owner, if a generator is part of a Transmission Owner's system restoration plan, a test performed by black start facilities within one month beyond the Capability Year test period, or longer in force majeure cases, shall be considered a valid test for that Capability Year. For black start providers under the Consolidated Edison black start and system restoration plan, the Capability Year test period is from May 1st to April 30th, excluding June, July, and August. The test period for providers other than those in the Consolidated Edison black start and system restoration plan is from May 1st to April 30th.

The NYISO Restoration Plan and/or Transmission Owner restoration plan(s) are implemented if a partial or complete system blackout occurs. The NYISO selects the generating resources with black start capability by considering the following operating characteristics:

- electrical location in the NYCA
- startup time: from NYISO order to start to minimum output
- maximum response rate (MW/minute) above minimum output
- maximum power output

7.2. Source and Scheduling of Service

LSEs must purchase black start capability service from the NYISO. Generation Resources providing this service must successfully pass the test for black start capability.