

# ISO Rules

## Part 500 Facilities

### Division 505 Legal Owners of Generating Facilities

#### Section 505.3 Coordinating Synchronization, Commissioning, WECC Testing and Ancillary Services Testing



#### Applicability

1 Section 505.3 applies to:

- (a) the **legal owner** of a **generating unit** with a rating of five (5) MW or greater that is connected or to be connected to **transmission facilities** or an **electric distribution system** in the **balancing authority area** of the **ISO** and which such **generating unit**:
  - (i) is a new **generating unit**;
  - (ii) has been the subject of a modification affecting its net-to-grid operating capabilities;
  - (iii) requires baseline and model validation testing, being **WECC** testing; or
  - (iv) requires testing in accordance with any **ancillary services** technical requirements;
- (b) the **legal owner** of an **aggregated generating facility** with a rating of five (5) MW or greater that is connected or to be connected to **transmission facilities** or to an **electric distribution system** in the **balancing authority area** of the **ISO** and which such **aggregated generating facility**:
  - (i) is a new **aggregated generating facility**;
  - (ii) has been the subject of a modification affecting its net-to-grid operating capabilities;
  - (iii) requires baseline and model validation testing, being **WECC** testing; or
  - (iv) requires testing in accordance with any **ancillary services** technical requirements; and
- (c) the **ISO**.

#### Requirements

##### Connecting New Facilities

**2(1)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** must not synchronize its generating facility until obtaining written confirmation from the **ISO** that:

- (a) the **legal owner** has met the energization requirements; and
- (b) the **legal owner's** final **commissioning** plan, required under subsection 3, is approved.

**(2)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** must, on the **day** of and not less than one (1) hour prior to synchronizing any generating facilities, phone the **ISO** and obtain verbal authorization from the **ISO** to synchronize the generating facility.

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**(3)** After receiving authorization to synchronize its generating facilities, the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** may synchronize them to the **transmission system**.

#### Plans for Commissioning, WECC Testing or Ancillary Services Testing Activities

**3** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** must provide a final, written **commissioning** or testing plan to the **ISO**:

- (a) which the **ISO** approves as being able to be implemented without impacting the reliable operation of the **interconnected electric system**;
- (b) detailing the types of tests the **legal owner** proposes to conduct, including **WECC** tests; and
- (c) a minimum of thirty (30) **days** prior to **commissioning** or testing.

#### Commissioning or Testing Major Facilities Plan Details

**4** Any of the following:

- (a) the **legal owner** of a **generating unit** equal to or greater than five (5) MW;
- (b) the **legal owner** of an **aggregated generating facility** equal to or greater than five (5) MW; or
- (c) the **legal owner** of a **generating unit** or the **legal owner** of an **aggregated generating facility** which owns any of the following major transmission or load facilities:
  - (i) motors of a rating sufficient to cause operational concerns, as identified during the connection project process;
  - (ii) static VAr compensators;
  - (iii) high voltage direct current facilities;
  - (iv) flexible alternating current transmission system devices;
  - (v) phase shifting transformers;
  - (vi) alternating current transmission line series compensation; and
  - (vii) synchronous condensers

intending to perform **commissioning**, **WECC** testing or **ancillary services** testing activities on such facilities, must include in its **commissioning** or testing plan the details of the proposed testing activities, including the expected output of **real power** and **reactive power** from the facility to the **interconnected electric system** and over what periods of time.

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#### Commissioning Minor Facilities Plan Details

**5** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** that owns any of the following:

- (a) circuit breakers;
- (b) transformers and voltage regulators;
- (c) capacitor banks;
- (d) reactors; and
- (e) alternating current transmission lines,

intending to conduct **commissioning** on such facilities must include in its **commissioning** plan the proposed date and time of energization.

#### Conducting Commissioning, WECC Testing or Ancillary Services Testing Activities

**6(1)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** must not begin its **commissioning** or testing activities until obtaining written confirmation from the **ISO** that the **legal owner's** final **commissioning** or testing plan, required under subsection 3, is approved.

**(2)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** must, on the **day** of and not less than one (1) hour prior to the scheduled time of **commissioning** or testing, phone the **ISO** and obtain verbal authorization from the **ISO** to proceed.

**(3)** After receiving authorization to proceed with its **commissioning** or testing activities, the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** may commence the **commissioning** or testing activities.

#### Changes to Approved Commissioning or Testing Activities

**7(1)** The **ISO** may amend or suspend any **commissioning**, **WECC** testing or **ancillary services** testing activities it has already approved under subsection 3, based on real time **reliability** requirements of the **interconnected electric system** and necessary **ISO** operational flexibility, and it may do so by providing written or verbal notice to the **legal owner** of the facility.

**(2)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** may suspend its **commissioning**, **WECC** testing or **ancillary services** testing activities by giving verbal notice to the **ISO**.

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**(3)** Each of the **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** may amend its **commissioning, WECC testing** or **ancillary services testing** activities by making a verbal request to the **ISO** and obtaining verbal approval.

**(4)** A **legal owner** of a **generating unit** and the **legal owner** of an **aggregated generating facility** that has amended or suspended any previously approved **commissioning, WECC testing** or **ancillary services testing** activities must, if the **ISO** requests, submit a revised written **commissioning** or testing plan and must do so within the timeframe the **ISO** specifies in order to proceed with **commissioning, WECC testing** or **ancillary services testing** activities.

#### Revision History

Effective	Description
2012-12-31	Initial Release