

ISO Rules

Part 500 Facilities

Division 504 Legal Owners of Transmission Facilities and Load Facilities

Section 504.3 Coordinating Energization, Commissioning and Ancillary Services Testing



Applicability

1 Section 504.3 applies to:

- (a) the **legal owner** of a **transmission facility** that requires:
 - (i) a new connection to other **transmission facilities** in the **balancing authority area** of the **ISO**;
 - (ii) a **transmission facility** modification to facilities with equipment listed in subsections 5 or 6;
or
 - (iii) testing in accordance with any **ancillary services** technical requirements;
- (b) the **legal owner** of a transmission-connected load facility which the **ISO** determines may impact the reliable operation of the **interconnected electric system** and notifies the **legal owner** of such determination and that requires:
 - (i) a new connection to other **transmission facilities** in the **balancing authority area** of the **ISO**;
 - (ii) a **transmission facility** modification to facilities with equipment listed in subsection 5 or 6;
or
 - (iii) 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 **transmission facility** and the **legal owner** of a transmission-connected load facility must not energize its 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 4, is approved.

(2) Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility must, on the **day** of and not less than one (1) hour prior to energizing any facility, phone the **ISO** and obtain verbal authorization from the **ISO** to energize the facility.

(3) After receiving authorization to energize its facilities, the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility may energize the facility and commence the **commissioning** activities.

Conducting Ancillary Services Testing

3(1) Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility must not begin testing its facility in accordance with **ancillary services** technical requirements until obtaining written confirmation from the **ISO** that the **legal owner's** final testing plan,

ISO Rules

Part 500 Facilities

Division 504 Legal Owners of Transmission

Facilities and Load Facilities

Section 504.3 Coordinating Energization, Commissioning and Ancillary Services Testing



required under subsection 4, is approved.

(2) Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility must, on the **day** of and not less than one (1) hour prior to testing any facility in accordance with **ancillary services** technical requirements, phone the **ISO** and obtain verbal authorization from the **ISO** to energize the facility.

(3) After receiving authorization to test its facility, the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility may commence testing activities in accordance with **ancillary services** technical requirements.

Plans for Commissioning New Facilities or Conducting Ancillary Services Testing

4 Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility must provide final, written **commissioning** or testing plans 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;
- (c) in sufficient time to allow the **ISO** to approve the plans a minimum of thirty (30) **days** prior to **commissioning**; and
- (d) containing the minimum detail as noted in subsection 5 and 6, as appropriate.

Plan Details for Commissioning and Ancillary Services Testing of Major Facilities

5 Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility that owns any of the following **transmission facilities**:

- (a) motors of a rating sufficient to cause operational concerns, as the **ISO** identifies during the connection project process;
- (b) static VAr compensators;
- (c) high voltage direct current facilities;
- (d) flexible alternating current transmission system devices;
- (e) phase shifting transformers;
- (f) alternating current transmission line series compensation;
- (g) synchronous condensers; or
- (h) energy storage facilities,

intending to conduct **commissioning** 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, consumption or transfer of **real power** and **reactive power** from the facility to the

ISO Rules

Part 500 Facilities

Division 504 Legal Owners of Transmission

Facilities and Load Facilities

Section 504.3 Coordinating Energization, Commissioning and Ancillary Services Testing



interconnected electric system and over what periods of time.

Commissioning Minor Facilities Plan Details

6 The **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility intending to conduct **commissioning** and testing activities on any of the following:

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

must include in its **commissioning** plan the proposed date and time of energization.

Changes to Approved Commissioning or Testing Activities

7(1) The **ISO** may amend or suspend any **commissioning** or testing activities it has already approved under subsection 4, 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 **transmission facility** and the **legal owner** of a transmission-connected load facility may suspend its **commissioning** or testing activities by giving verbal notice to the **ISO**.

(3) Each of the **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility may amend its **commissioning** or testing activities by making a verbal request to the **ISO** and obtaining verbal approval.

(4) A **legal owner** of a **transmission facility** and the **legal owner** of a transmission-connected load facility that has amended or suspended any previously approved **commissioning** or 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** or testing activities.

Revision History

Effective	Description
2012-12-31	Initial Release