

ISO Rules

Part 500 Facilities

Division 502 Technical Requirements

Section 502.4 Automated Dispatch and Messaging System ~~and Voice Communication System Requirements~~



DRAFT External Consultation Draft
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Applicability

1 Section 502.4 applies to:

- ~~(a) the legal owner of a generating unit;~~
- ~~(b) the legal owner of an aggregated generating facility;~~
- ~~(c) the legal owner of a transmission facility;~~
- ~~(d) the legal owner of an electric distribution system;~~
 - (a) ~~(e) a pool participant; that submits offers or bids for a pool asset, excluding import assets and export assets, in either one or both of:~~
 - ~~(i) the energy market; and~~
 - ~~(ii) the ancillary service market, for which the ISO issues dispatches or directives through the ISO's Automated Dispatch and Messaging System.~~
- ~~(f) the ISO.~~

Requirements

New and Existing Systems

~~2(1) On and after June 1, 2011, a market participant with any new facility which is to be directly connected to the interconnected electric system must comply with access and operate the applicable minimum ISO's Automated Dispatch and Messaging System and voice communication systems requirements of this section 502.4.~~

~~(2) Subject to subsection 2(3), the provisions of this section 502.4 do not apply to any Automated Dispatch and Messaging System and voice communication systems in existence as of June 1, 2011, but those systems must remain in compliance with the technical specifications and operational requirements which were in effect as of the original date of the commencement of the systems' operation, including those in Appendix 1.~~

~~(3) The ISO may require a market participant to comply with any specific application to receive dispatches or all of the Automated Dispatch and Messaging System and voice communication systems requirements of this section 502.4, if the ISO determines that such compliance is critical directives for the safe and reliable operation of the interconnected electric system each pool asset for which a pool participant submits offers or bids.~~

~~(4) A market pool participant in a subcategory identified in subsection 1 with a facility that has multiple control rooms must ensure that each control room is in compliance with the applicable be available 24 hours a day, 7 days a week to respond to dispatches or directives the ISO issues through:~~

- ~~(a) the ISO's Automated Dispatch and Messaging System; and voice communication systems requirements of this section 502.4.~~

~~(5) The ISO must have Automated Dispatch and Messaging System and voice communication systems in its coordination centre and other back-up locations to exchange communications with the control room of any market participant that is required to comply with the provisions of this section 502.4.~~

Successor to Prior Requirements

~~3 Subject to subsection 2, this section 502.4 succeeds the Operational Voice Communications Standard in effect as of~~

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~~September 7, 2005, and the prior standard or any drafts of it no longer will be in force and effect as of June 1, 2011.~~

~~Systems Availability and Maintenance Requirements~~

- ~~4(1) All Automated Dispatch and Messaging system and voice communication systems under this section 502.4 must be continuously operational twenty four (24) hours a day, seven (7) days a week.~~
- ~~(2) Those systems must be maintained and serviced generally in accordance with good electric industry practice to ensure they are continuously operational.~~

~~Dedicated Primary Direct Access Telephone and Cell Phone Connections~~

- ~~5(1) If there is a requirement under this section 502.4 for one (1) or more primary direct access telephone connections to the ISO coordination centre from a market participant control room, then the connection must be dedicated for the exclusive use of the ISO and the market participant, and must not be degraded by any other communication or data transfer activities if there is any shared equipment or functionality associated with the connection.~~
- ~~(2) Each primary direct access telephone connection must be dedicated to the specific applicable operational function in the ISO coordination centre.~~
- ~~(3) Each primary direct access telephone number must be a primary number with automatic forwarding to another number if the primary number is busy or otherwise not available, and the use of voice mail is prohibited.~~
- ~~(4) Cell phone service may be used as a primary direct access telephone connection if it satisfies the requirements of subsections 4 and 5.~~

~~Mobile Satellite Telephone Service~~

- ~~6(1) If there is a requirement under this section 502.4 for mobile satellite network telephone service to the ISO from a market participant, then the service must be commercially available for one-to-one communications with the ISO.~~
- ~~(2) If there is a requirement for such service to be available for dispatch purposes, then the service must allow for multiple party communications, including those between the ISO and the market participant.~~

~~Specific Requirements~~

~~7 The more specific systems requirements are as set out in the following Table 1:~~

Table 1

Automated Dispatch and Messaging System and Voice Communication Systems Requirements

A. Market Participant Subcategory	B. Primary Requirements	C. Emergency and Backup Requirements
1. A pool participant who may receive an energy market dispatch or a directive.	1. Automated Dispatch and Messaging System; plus 2. A commercial service with a primary direct access telephone connection from the control room to the ISO coordination centre.	None required.
2. A pool participant who may receive an ancillary service dispatch or a directive.	1. Automated Dispatch and Messaging System; plus 2. A commercial service with a	One of the following additional services connecting from the control room to the ISO coordination centre: 1. A mobile satellite network telephone and dispatch

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A. Market Participant Subcategory	B. Primary Requirements	C. Emergency and Backup Requirements
	primary direct access telephone connection from the control room to the ISO coordination centre, with the service having mute and conference call capabilities.	service; 2. A back up direct access telephone connection; or 3. A utility orderwire service.
3. A legal owner of a generating unit or aggregated generating facilities connecting to the interconnected electric system at a voltage of less than or equal to 25kV.	1. A commercial service with a primary direct access telephone connection from the control room to the ISO coordination centre.	None required.
4. A legal owner of a generating unit or aggregated generating facilities connecting to the interconnected electric system at a voltage of greater than 25kV where the aggregated electric energy output at the point of connection is less than 50 MW.	1. A commercial service with a primary direct access telephone connection from the control room to the ISO coordination centre.	A back up direct access telephone connection from the control room to the ISO coordination centre.
5. A legal owner of a generating unit or aggregated generating facilities connecting to the interconnected electric system at a voltage of greater than 25 kV where the aggregated electric energy output at the point of connection is equal to or greater than 50 MW.	1. A commercial service with a primary direct access telephone connection from the control room to the ISO coordination centre, with the telephone having mute and conference call capabilities.	One of the following additional services connecting from the control room: 1. A direct access telephone connection to the control room of the legal owner of the transmission facility providing the interconnected electric system connection; 2. A mobile satellite telephone service to the ISO coordination centre; 3. A back up direct access telephone connection to the ISO coordination centre; or 4. A utility orderwire service to the ISO coordination centre.
6. A legal owner of a generating unit providing a black start capability service.	1. A commercial service with a primary direct access telephone connection from the control room to the ISO coordination centre, with the service having mute and conference call capabilities.	One of the following additional services connecting from the control room: 1. A direct access telephone connection from the control room to the operations room of the legal owner of the transmission facility providing the interconnected electric system connection; 2. A back up direct access dedicated commercial

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A. Market Participant Subcategory	B. Primary Requirements	C. Emergency and Backup Requirements
		telephone connection from the control room to the ISO coordination centre; or 3. A utility orderwire service from the control room to the ISO coordination centre.
7. A legal owner of a transmission facility, except those who operate only radial transmission system equipment.	1. A commercial service with primary direct access telephone connection from the control room to the ISO coordination centre, with the service having mute and conference call capabilities.	One of the following additional services connecting from the control room to the ISO coordination centre: 1. A mobile satellite network telephone service; 2. A back up direct access telephone connection; or 3. A utility orderwire service.
8. A legal owner of a transmission facility operating only radial transmission system equipment.	1. A commercial service with primary direct access telephone connection from the control room to the ISO coordination centre.	1. A back up direct access telephone connection from the control room to the ISO coordination centre.
9. A legal owner of an electric distribution system.	1. A commercial service with primary direct access telephone connection from the control room to the ISO coordination centre.	None required.
10. A legal owner of an electric distribution system who contributes load additions for black start capability process requirements.	1. A commercial service with primary direct access telephone connection from the control room to the ISO coordination centre.	One of the following additional services connecting from the control room: 1. A direct access telephone connection to the legal owner of the transmission facility providing the transmission system connection associated with the black start capability service. 2. A mobile satellite network telephone service to the ISO coordination centre; or 3. A utility orderwire service to the ISO coordination centre.

Emergency and Back Up Communication Systems Requirements

8— Each applicable market participant and the ISO must use the specified emergency and back up communication systems when there is an event that causes a primary communication system to be materially disrupted or impaired, including an event such as:

- (a) a real time system emergency condition, as may be referenced in any reliability standard; or
- (b) a disturbance or interruption of service by any provider of a primary communications system service.

Testing of Emergency and Back Up Communication Systems

9(1)— The ISO must conduct tests for all emergency and back up communication systems on a reasonable basis and the testing

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~~schedule time and date must be made known reasonably in advance to the operator of a market participant whose system will be tested.~~

~~(2) If the test is a success then the ISO will not notify the operator, but if the test is a failure then the ISO will verbally notify the operator of the failure no later than twenty four (24) hours after the test is completed.~~

~~(3) After the ISO notifies the operator of the testing schedule, the operator must ensure that there are trained personnel available to conduct and facilitate the test at the designated date and time.~~

~~(4) In accordance with the confidentiality provisions of subsection 2(1) of section 103.1 of the ISO rules Confidentiality, the ISO must keep confidential the name of any facility that is subject to testing, and the date and time of the tests.~~

~~(5) If there is a failure of a test, then the applicable market participant or the ISO, depending on whose emergency and back up communication system has failed, must ensure the cause is investigated and repaired as soon as reasonably possible, but in any event the system must be repaired no later than five (5) business days after:~~

~~(a) the date of the test failure, in the case of the ISO; or~~

~~(b) the date of delivery of notice of the test failure, in the case of the market participant.~~

~~(6) The ISO must keep a copy of any test results for no less than two (2) calendar years after the date of the test.~~

Loss of Emergency and Back Up Communication Systems

~~10(1) If either the ISO or a market participant experiences a material disruption or complete loss of any emergency and back up communication systems at a point in time other than during a test period, then verbal notice must be given by:~~

~~(a) the ISO to all affected market participants, if the ISO suffers the disruption or loss; or~~

~~(b) the applicable market participant to the ISO, if the market participant suffers the disruption or loss.~~

~~(2) The market participant that experiences the disruption or loss must investigate and repair it as soon as reasonably possible, but in any event no later than five (5) business days after the date of the discovery of the cause of the disruption or loss.~~

Appendices

Appendix 1 — *Technical Standards in Effect as of 2007*

~~(b) telephone calls from the ISO using a direct telephone number that the pool participant has provided to the ISO.~~

Revision History

<u>Effective Date</u>	<u>Description of Changes</u>
2011-06-01 <u>yyyy-xx-xx</u>	Initial release Removed all voice communication requirements. <u>Modified Automated Dispatch and Messaging System applicability and regulatory requirement.</u>
2013-01-08 <u>2015-03-27</u>	Appendix added containing authoritative system availability requirements specified in Table 2 of ISO-OPP-003.2. Previously defined terms have been un-defined and so the words have been un-boldded. Replaced "effective date" with the initial release date in sections 2(1), 2(2), and 3; and replaced the word "Effective" in the Revision History to "Date".

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2014-07-02	Unbolded the reference to “outage” in Appendix 1.
2015-03-27 <u>2013-01-08</u>	<p>Replaced “effective date” with the initial release date in sections 2(1),(2) and 3; and replaced the word “Effective” in the Revision History to “Date”. Appendix added containing authoritative system availability requirements specified in Table 2 of ISO OPP 003.2.</p> <p>Previously defined terms have been un-defined and so the words have been unbolded.</p>
<u>2011-06-01</u>	<u>Initial release.</u>

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Appendix 1 – Technical Standards in Effect as of 2007

Standard Description	Applicable To	Standard Requirement	Reason for Standard
Maximum participant outage time	All pool participants receiving dispatches and with total bids or offers of greater than twenty-five (25) MW	Twenty-six point two five (26.25) hours per year. Ninety-nine point seven percent (99.7%) availability.	Safe and reliable operation of the power system requires high pool participant availability for receiving dispatches .
	All pool participants receiving dispatches and with total bids or offers of less than twenty-five (25) MW	One hundred (100) hours per year. Ninety-nine point eight percent (98.8%) availability.	
Maximum outage time per incident	All pool participants receiving dispatches and with total bids or offers of greater than twenty-five (25) MW	Six (6) hours	Safe and reliable operation of the power system requires high pool participant availability for receiving dispatches .
	All pool participants receiving dispatches and with total bids or offers of less than twenty-five (25) MW	Forty-eight (48) hours	
Call out response time	All pool participants receiving dispatches and with total bids or offers of greater than twenty-five (25) MW	Two (2) hours	Safe and reliable operation of the power system requires high pool participant availability for receiving dispatches .
	All pool participants receiving dispatches and with total bids or offers of less than twenty-five (25) MW	Next working day	