

Market Manual 11: Reliability Compliance

Part 11.3: Reliability Information Catalogue

Issue 2.0
December 3, 2025

A catalogue of the information that is to be shared between the *IESO* and *Market Participants* in relation to maintaining the reliability of the *IESO-controlled grid*

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This document may contain a summary of a particular *market rule*. Where provided, the summary has been used because of the length of the *market rule* itself. The reader should be aware, however, that where a *market rule* is applicable, the obligation that needs to be met is as stated in the "*Market Rules*". To the extent of any discrepancy or inconsistency between the provisions of a particular *market rule* and the summary, the provision of the *market rule* shall govern.

Document Change History

Issue	Reason for Issue	Date
Refer to Issue 8.0 (IESO_CAT_0011) for changes prior to Market Transition.		
Issue 1.0	Market transition	April 4, 2025
Issue 2.0	Issued for baseline	December 3, 2025

Related Documents

Document ID	Document Title
N/A	



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Table of Changes

Reference (Section and Paragraph)	Description of Change
Throughout	Removed 'zero series' labelling and market transition section.

Market Manuals

The *market manuals* consolidate the market procedures and associated forms, standards, and policies that define certain elements relating to the operation of the *IESO-administered markets*. Market procedures provide more detailed descriptions of the requirements for various activities than is specified in the "*Market Rules*". Where there is a discrepancy between the requirements in a document within a *market manual* and the "*Market Rules*", the "*Market Rules*" shall prevail. Standards and policies appended to, or referenced in, these procedures provide a supporting framework.

Market Procedures

The "Reliability Compliance Manual" is Series 11 of the "*Market Manuals*", where this document forms "Part 11.3: Reliability Information Catalogue".

– End of Section –

1. Introduction

1.1 Purpose

The *IESO* is required by the *market rules* to produce a catalogue of the information that is to be shared between the *IESO* and *market participants* in relation to maintaining the *reliability* of the *IESO-controlled grid*.

This catalogue is designed to advise *market participants* on the *reliability*-related information requirements and needs, and to assist them in meeting their obligations for maintaining the *reliability* of the *IESO-controlled grid*.

This document catalogues:

- The information relating to the *reliability* of the *IESO-controlled grid* that is provided by the *IESO* to *market participants*, and
- The information relating to the *reliability* of the *IESO-controlled grid* that is provided by *market participants* to the *IESO*.

1.2 Scope

This document catalogues only the information that relates to the *reliability* of the *IESO-controlled grid*.

1.3 Overview

The following sections of this document describe the information that is shared between the *IESO* and the *market participants*. Each entry in the table identifies:

- To whom the information is provided,
- A description of the information that is provided,
- The frequency with which the information is provided,
- The method by which the information is provided,
- Any referenced documents relating to the information, and
- The "*Market Rules*" reference relating to the information.

1.4 Contact Information

As part of the participant authorization process, *applicants* are able to identify a range of contacts within their organization that address specific areas of market operations. For system operations, these contacts will most likely be the *authority centre*, *dispatch* or

control centre, facility location operator or the restoration plan coordinator as indicated in the participant registration data. If the *market participant* has not identified a specific contact, the *IESO* will seek to contact the Main Contact established during the participant authorization process. The *IESO* will seek to contact these individuals for activities within this procedure, unless alternative arrangements have been established between the *IESO* and the *market participant*.

If you wish to contact us, you can email *IESO* Customer Relations at customer.relations@ieso.ca or contact us by [telephone or mail](#). Customer Relations staff will respond as soon as possible.

– End of Section –

2. Reliability Information Provided by the IESO

Table 2-1: Reliability Information Provided by the IESO

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
1.	<i>Market participants</i>	<i>Reliability Standards NERC/NPCC</i>	Ongoing	By email from the <i>IESO</i> or by links to: IESO Internal Compliance Programs NERC website NPCC website	NERC Standards NPCC Criteria	Ch. 4, Sec. 2.1.1
2.	<i>Market participants</i>	<i>Reliability policy and security for local area supply</i>	Ongoing	" <i>Market manual</i> " (Details upon request of authorized <i>market participants</i> , subject to confidentiality provisions.)	Market Manual 11.1: <i>Applicability Criteria for Compliance with NERC Reliability Standards and NPCC Criteria</i>	Ch. 5, Sec. 5.4
3.	<i>Market participants</i>	Equipment Performance Standards	Ongoing	IESO website "Market Rules"	N/A	General: Ch. 4, Sec.3.1.1 Ch. 4, Appendix 4.1 Generators and Electricity Storage Participants:

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
						Ch. 4, Appendix 4.2 Connected Wholesale Customers and Distributors Connected to IESO-Controlled Grid: Ch. 4, Appendix 4.3 Transmitters: Ch. 4, Appendix 4.4
4.	<i>Market participants</i>	Operating Procedures and Instruction	Ongoing	IESO website ----- Upon request of authorized <i>Market Participants</i> , subject to confidentiality provisions	Market Manual 7.1: IESO-Controlled Grid Operating Procedures For internal procedures: Publicly available System Control Orders (SCO) and Internal Manuals	Ch. 5, Sec. 3.2.3
5.	<i>Market participants</i>	Requirements for commissioning, inspection and testing of equipment <i>connected to IESO-controlled grid.</i>	Ongoing, as changes occur	IESO website OEB website	Transmission System Code (OEB), and Appendices Other reference documents to be added when developed.	General: Ch. 4, Appendix 4.2 to 4.4 Generators: Ch. 4, Sec. 3.4.1.3

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
						<p>Electricity Storage Participants: Ch. 4, Sec 3.6</p> <p>Connected Wholesale Customers and Distributors Connected to IESO-Controlled Grid: Ch. 4, Sec. 3.5.1.3 and 5</p> <p>Transmitters: Ch. 4, Sec. 3.3.1.3</p>
6.	<i>Market participants</i>	<i>Ancillary Service provider performance standards: black start, regulation, voltage control and reactive support, and Operating Reserve.</i>	Ongoing	<i>Market Rules</i>	N/A	Ch. 5, Sec. 4.2.2 and 4.3.2 Ch. 5, Appendix 5.1
7.	<i>Market participants</i>	<i>Ancillary Services: requirements and procedures for testing ancillary service provider facilities.</i>	Ongoing; within 6 months of Market Rules Chapter 5 being in force	<i>IESO website</i>	<i>Market Manual 7.8: Ontario Power System Restoration Plan</i>	Ch. 5, Sec. 4.9 Ch. 5, Appendix 5.1 (performance standards)

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
8.	<i>Market participants</i>	List of equipment and <i>facilities</i> the <i>outage</i> of which must be reported and scheduled with the <i>IESO</i> .	As required	Generic list available in <i>Market Manual</i> Participant specific list available through Outage Management System	Market Manual 7.3: Outage Management.	Ch. 5, Sec. 6.1.3
9.	<i>Market participants</i>	<i>Planned outage</i> information provided by <i>transmitters, generators</i> and <i>electricity storage participants</i> subject to confidentiality provisions	Refer to reference document for schedule	Included in the <i>security</i> and <i>adequacy</i> assessments	Market Manual 7.3: Outage Management Market Manual 7.2: Near Term Assessments and Reports	Ch. 5, Sec. 6.5.2
10.	<i>Generators affected</i>	<i>Generation facilities</i> whose <i>outages</i> must be reported to support monthly summaries when their <i>generation facilities</i> are identified by the <i>IESO</i> as affecting the <i>reliability</i> of the <i>IESO-controlled grid</i> but are less than 0.5% of the <i>generator's</i> total capacity and the <i>generator's</i> total capacity is greater than 4000 MW	Ongoing/as required	Hardcopy or electronic advice to <i>generators</i> affected	Market Manual 2.11: Reliability Outlook and Related Information Requirements	Ch. 5, Sec. 6.2.5.2

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
11.	<i>Market participants</i>	<i>Dispatch criteria for Remedial Action Schemes (e.g., Load rejection, generation rejection)</i>	Ongoing; updates as criteria changes	<i>IESO website</i>	Market Manual 7.4: <i>IESO-Controlled Grid Policies</i>	Ch. 5, Sec. 8.2.4
12.	<i>Market participants</i>	Specifications regarding exclusions to load management activities undertaken for the purpose of controlling <i>demand</i>	As required	<i>Market manuals</i> available on the <i>IESO</i> website	Market Manual 7.1: <i>IESO-Controlled Grid Operating Procedures</i>	Ch. 5, Sec. 10.3.6
13.	<i>Market participants</i>	Specifications regarding exclusions to load management activities undertaken for the purpose of shedding load during under-frequency conditions	As required	<i>Market manuals</i> , available on the <i>IESO</i> website	Market Manual 7.1: <i>IESO-Controlled Grid Operating Procedures</i>	Ch. 5, Sec. 10.4.11
14.	<i>Distributors and Connected Wholesale Customers</i> subject to automatic under-frequency load shedding	Specification for automatic under-frequency load shedding discrete MW blocks: number, location, size, associated low frequency settings of these blocks	Annually, by week 24 of calendar year	<i>Market Manuals</i> , available on the <i>IESO</i> website	Market Manual 7.1: <i>IESO-Controlled Grid Operating Procedures</i> Market Manual 7.4: <i>IESO-Controlled Grid Policies</i> .	Ch. 5, Sec. 10.4.7

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
15.	<i>Minister of Energy, Northern Development & Mines</i>	<i>Ontario electricity emergency plan and emergency preparedness plan for major market participants – filing with Minister (see subsection 39(1) of the Electricity Act, 1998)</i>	As required	<i>IESO website</i>	<i>Emergency Preparedness link on the IESO website</i>	Ch. 5, Sec. 11.2.2
16.	<i>Minister of Energy, Northern Development & Mines</i>	<i>Ontario Power System Restoration Plan – filing with Minister</i>	As required	<i>IESO website</i>	Market Manual 7.8: <i>Ontario Power System Restoration Plan</i>	Ch. 5, Sec. 11.3.4
17.	<i>Market participants</i>	<i>Security limits for all facilities that are part of IESO-controlled grid</i>	Ongoing, updates as changes occur	Upon request of authorized <i>market participants</i> , subject to confidentiality provisions.	System Control Orders <i>IESO Summary of Limits and Transfer Capability</i>	Ch. 5, Sec. 5.1.2.2
18.	<i>Market participants</i>	Criteria and margins for developing <i>security limits</i> , and a process for reviewing and revising such criteria and margins	Ongoing, updates as criteria changes	<i>IESO website</i>	Market Manual 7.4: <i>IESO-Controlled Grid Policies</i>	Ch. 5, Sec. 5.1.2.3
19.	<i>Market participants</i>	<i>Transmission transfer capabilities</i>	Ongoing, updates as changes occur	By email. <i>IESO website</i>	<i>Reliability Assessments and Regional/interregional</i>	Ch. 5, Sec. 5.2.1 and 5.2.2

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
				NERC website NPCC website	Studies, available on <i>NERC</i> and <i>NPCC</i> websites Reliability Outlooks on <i>IESO</i> website	
20.	<i>Market participant</i>	<i>Demand Forecast Methodology</i>	Ongoing, updated as changes in methodology occur	<i>IESO</i> website	Market Manual 7.2: Near Term Assessments and Reports (Appendix B) Market Manual 2.11: Reliability Outlook and Related Information Requirements Market Manual 2.8: Reliability Assessments Information Requirements	Ch. 5, Sec. 7.1.3
21.	<i>Market participants</i>	<i>Advance security and adequacy assessments of IESO-controlled grid</i>	For the next 34 days: Refer to reference document for schedule Quarterly: For at least the next 18 months Annually:	Market Manuals, Quarterly and Annual assessments, outlooks available on the <i>IESO</i> website Security and adequacy assessments available on website	Daily and weekly assessments: Market Manual 7.2: Near Term Assessments and Reports Monthly assessments: Market Manual 2.11: Reliability Outlook and Related Information Requirements	Ch. 5, Sec. 7.3

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
			Exceeding the 18- month timeframe		Annual assessments: Market Manual 2.8: Reliability Assessments Information Requirements	
22.	<i>Market participants</i>	<i>Demand forecasts for Ontario or parts thereof</i>	<p>For the next 34 days: Refer to reference document for schedule</p> <p>Quarterly: For the next 18 months</p> <p>Annually: Exceeding the 18- month timeframe</p>	<i>Market Manuals, Quarterly and Annual assessments available at the IESO website</i> <i>Adequacy assessments available on website</i>	<p>Daily and weekly assessments: Market Manual 7.2: Near Term Assessments and Reports</p> <p>Monthly assessments: Market Manual 2.11: Reliability Outlook and Related Information Requirements</p> <p>Annual assessments: Market Manual 2.8: Reliability Assessments Information Requirements</p>	Ch. 5, Sec. 7.1.1
23.	<i>Market participants</i>	<i>IESO-controlled grid emergency operating state anticipated or declared</i>	As required; promptly	Advisory notice, or telephone call if required	List of <i>Emergency Operating State</i> Control Actions (EOSCA) as per Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 2.3.3

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
24.	<i>Market Participants</i>	Issue <i>NERC Energy Emergency Alerts</i>	As required	Posted on <i>NERC</i> public website Advisory notice	List of <i>Emergency Operating State</i> Control Actions (EOSCA) as per Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures. <i>NERC</i> Standard EOP-002 Attachment 1.	
25.	<i>Market participants</i>	<i>IESO-controlled grid high-risk operating state</i> anticipated or declared	As required; promptly	Advisory notice, or telephone call if required	Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures Market Manual 7.3: Outage Management	Ch. 5, Sec. 2.4.3
26.	<i>Market participants</i>	<i>10-minute Operating Reserve</i> requirements for next day	Refer to reference document for schedule	Adequacy Report	Market Manual 7.2: Near Term Assessments and Reports	Ch. 5, Sec. 4.5.11
27.	<i>Market participants</i>	<i>Black Start</i> required amounts and location	Before obtaining <i>black start capability</i> service	Contracts	Market Manual 7.8: <i>Ontario Power System Restoration Plan</i>	Ch. 5, Sec. 4.7.2
28.	<i>Market participants</i>	Conditions on <i>IESO-controlled grid</i> that may require <i>demand</i> reductions by a" <i>non-dispatchable load</i> and <i>price responsive load</i>	As required, promptly	Advisory notice ----- SCOs upon request of authorized <i>Market</i>	Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures	Ch. 5, Sec. 10.1.2

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
				<i>Participants</i> , subject to confidentiality provisions		
29.	<i>Market participants</i>	Warning of request to reduce <i>demand</i> through voltage reductions or interruptions	By 16:00 of the previous day (whenever possible)	Advisory notice ----- SCOs upon request of authorized <i>market participants</i> , subject to confidentiality provisions	Market Manual 7.1: IESO-Controlled Grid Operating Procedures List of <i>Emergency Operating State</i> Control Actions (EOSCA) as per Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures	Ch. 5, Sec. 10.3.2
30.	<i>Transmitters</i>	Conditions on the <i>IESO-controlled grid</i> after load shedding	Immediately after loads have been shed	Advisory notice	Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures	Ch. 5, Sec. 10.4.5
31.	<i>Market Participants</i>	Issuance of a System Advisory for under- <i>generation</i> via an advisory notice	Two days prior to <i>dispatch day</i> ; One day prior to <i>dispatch day</i> ; Any time thereafter if condition is present	Advisory notice	List of <i>Emergency Operating State</i> Control Actions (EOSCA) as per Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures Market Manual 4.1: Submitting Dispatch Data in the Physical Markets, Appendix B.	Ch. 7, Sec. 12.1.1, 12.1.3.2, and 12.1.3.3

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
32.	<i>Market participants</i>	<i>Day-ahead schedule reliability related information: total system load and losses, projected hourly energy shortfalls, operating reserve requirements and shortfalls, reliability must-run resources and security constraints</i>	As required under relevant <i>market rules</i> and <i>market manual</i>	<i>IESO</i> website Online <i>IESO Dispatch Workstation</i>	Market Manual 4.1: Submitting Dispatch Data in the Physical Markets Market Manual 4.2 Operation of the Day-Ahead Market	Ch. 7, Sec. 4.7
33.	<i>Market participants</i>	<i>Pre-dispatch schedule-reliability related information: total system load and losses, projected hourly energy shortfalls, operating reserve requirements and shortfalls, reliability must-run resources and security constraints</i>	As required under relevant <i>market rules</i> and <i>market manual</i> Initial <i>pre-dispatch schedule</i> approximately 20:30 EST on the day prior to the relevant <i>pre-dispatch day</i>	<i>IESO</i> website Online <i>IESO Dispatch Workstation</i> Adequacy Report, Transmission Facility Outage Limits Report, and advisory notices	Market Manual 4.1: Submitting Dispatch Data in the Physical Markets Market Manual 4.3 <i>Real-Time Scheduling of the Physical Markets</i>	Ch. 7, Sec. 5.7 and 6.6
34.	<i>Market participants</i>	<i>Real-Time schedule-reliability related information:</i>	As required under relevant <i>market rules</i> and <i>market manual</i>	<i>IESO</i> website Online <i>IESO Dispatch Workstation</i>	Market Manual 4.3: Operation of the Real-Time Market	Ch. 7, Sec. 6.6.2 , 6.6.1.5

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
		total system load and losses, area <i>operating reserve</i> requirements and shortfalls, list of network and <i>security</i> constraints affecting <i>real-time schedule</i>	as soon as practicable			
35.	<i>Market participants</i>	<i>Real-Time dispatch – reliability related</i> information: total system load, transmission capacity, <i>outages</i> of transmission facilities, total <i>operating reserve</i> in <i>real-time schedules</i>	As required under relevant <i>market rules</i> and <i>market manual</i> Within one hour after each <i>dispatch hour</i>	<i>Dispatch</i> Workstation	Market Manual 4.3: <i>Real-Time Scheduling of the Physical Markets</i>	Ch. 7, Sec. 6.6.1.5, 6.6.3
36.	<i>Market participants</i>	To provide to all <i>market participants</i> , the OEB and relevant government authorities, a preliminary and final report (to <i>market participants</i> and the public) related to market suspension and all related steps and actions taken by the <i>IESO</i>	Within 10 <i>business days</i> following the resumption of normal market operations Final report as soon as practicable	By electronic or hard copy to <i>market participants</i> <i>IESO</i> website	Market Manual 4.5: Market Suspension and Resumption	Ch. 7, Sec. 13.7.3 and 13.7.4

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
37.	<i>Market participants</i>	Estimate of aggregate load curtailed following return to a <i>normal operating state</i>	As soon as practicable	Online IESO <i>Dispatch</i> Workstation	Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures	Ch. 5, Sec. 10.3.7
38.	<i>Market Participants (GOG-eligible resources)</i>	<i>GOG-eligible resource</i> instructions	Hourly basis	Online IESO <i>Dispatch</i> Workstation	Market Manual 4.3: Operation of the Real-Time Market	Ch. 7, Sec. 5.8 and 10
39.	<i>Market Participants</i>	Acceptance/Approval of planned Replacement <i>Energy</i> to Support <i>Planned Outages (boundary entity resource, time period, amount etc.)</i>	Promptly	Online IESO <i>Dispatch</i> Workstation		Ch. 5, Sec. 6.3.6 - 6.3.10
40.	<i>Market Participants</i>	RMR (Reliability Must Run) requirements for <i>generation resources, electricity storage resources, and dispatchable loads</i>	As soon as possible	Telephone call / Electronically		Ch. 5, Sec. 4.8
41.	<i>Market Participants</i>	<i>Information/communications during Planned Outage</i>	As required	Telephone call Outage Management System		Ch. 5, Sec. 6.1.7

Item No.	Information To	Information Description	Frequency / Timing	Means of Provision	Reference Document	Market Rule Reference
				Outage Form		
42.	<i>Market Participants</i>	To publish the times and quantities of voltage reductions and reductions in thirty minute <i>operating reserve</i> upon scheduling of these sources of reserves	As and when required	IESO website Online IESO Dispatch Workstation	Market Manual 7.1: IESO-Grid Operating Procedures: Appendix B	Ch. 5, Sec. 5.8

– End of Section –

3. Reliability Information Required by the IESO

Table 3-1: Reliability Information Required by the IESO

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
1.	<i>Market participants</i>	<p>Complying with <i>reliability</i> related information requirements</p> <p>Results of compliance monitoring and performance testing</p> <p>The <i>IESO</i> is authorized by the <i>Electricity Act</i> (1988) to administer Ontario's <i>reliability</i> compliance program including the specific <i>IESO reliability</i> related information requirements, set forth in the <i>market rules</i> and as listed in this "Market Manual 11.3:</p>	Upon request of the <i>IESO</i>	Specified upon request	<p>Hard copy to the IESO, or electronic files via the ORCP (Ontario Reliability Compliance Program) mailbox at ORCP@ieso.ca, or the Reliability Compliance Tool (RCT) in Online IESO.</p> <p>To facilitate market participants in the submission of reliability compliance related information, where applicable, a dedicated email link to the Reliability Compliance Program has been established that would</p>	<p>Market Manual 11.0: Reliability Compliance Monitoring and Enforcement Overview</p> <p>Market Manual 11.2: <i>Ontario Reliability Compliance Program</i></p>	<p>Ch. 5, Sec. 14 and 3</p> <p>Ch. 4, Sec 1 to 5</p>

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		<i>Reliability Information Catalogue</i> ". The <i>market participants</i> may be required to provide the <i>reliability</i> compliance related information and/or other associated data to the <i>IESO</i> (as per <i>market rules</i>), where applicable.			be utilized for emailing the information to the IESO via ORCP@ieso.ca . Hard or electronic copy to the ORCP mailbox (ORCP@ieso.ca).		
2.	<i>Market participants</i>	Network Impact Information for proposed new or modified connection to <i>IESO-controlled grid</i>	For each System Impact Assessment (SIA) study	As soon as the SIA is finalized	As per Connection Assessment and Approval process	Market Manual 1.4: Connection Assessment and Approval	General: Ch. 4, Sec. 6.1.6
3.	<i>Market participants</i>	All connection-related reliability information regarding all information for a facility to be represented in energy and market systems	As part of <i>facility</i> registration	Required to complete commissioning	Online IESO form supporting document (PDF) Market Registration Market.Registration@ieso.ca	Facility Registration Help File Market Manual 1.5: Market Registration Procedures	Ch. 7, Sec. 2.2

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
4.	<i>Generator, Electricity Storage Participant, and Connected Wholesale Customer (Load)</i>	<i>Connection Agreement with transmitter or distributor for new or modified connection facility</i>	<i>Facility Registration</i>		Market Registration Market.Registration@ieso.ca	OEB Transmission and Distribution System Codes Facility Registration Help File Market Manual 1.5: Market Registration Procedures	Ch. 4, Sec. 4 and 6 Ch. 7, Sec. 2.2.6.3
5.	<i>Transmitters</i>	Detailed procedures for processing <i>connection requests</i> ; and Requirements that must be met for connection to its <i>transmission system</i> or for the modification of an existing connection to such system	For each SIA study	As soon as the SIA is finalized	OEB Transmission Code	OEB Transmission and Distribution System Codes Market Manual 1.4: Connection Assessment and Approval	Ch. 4, Sec. 6.1
6.	<i>Market participants</i>	<i>IESO Monitoring Requirements</i>	Continual Basis		Control and Monitoring Equipment through <i>real-time</i> network	N/A	General: Ch. 4, Sec. 7.3, 7.3A, 7.4, 7.5, 7.6 Generators: Ch. 2, Appendix 2.2

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Mean of Provision		
							Ch. 4, Appendix 4.15 and 4.19 Electricity Storage Participants: Ch. 2, Appendix 2.2 Ch. 4, Appendix 4.24 and 4.25 Transmitters: Ch. 2, Appendix 2.2 Ch. 4, Appendix 4.16, 4.20, and 4.21 Connected Wholesale Customers and Distributors Connected to the IESO-Controlled Grid: Ch. 2, Appendix 2.2 Ch. 4, Appendix 4.17 and 4.22 Embedded Load Customers: Ch. 2, Appendix 2.2

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
							Ch. 4, Appendix 4.18 and 4.23
7.	<i>Market participants</i>	Emergency Preparedness Plan and such other emergency preparedness-related information, including the manner in which the market participant will minimize the cutting and expedite the restoration of critical loads and priority loads during short and prolonged emergencies.	At the time of registration and reviewed at least annually thereafter by the market participant. Information to be submitted to the IESO as required.		<i>Market participant Authorization</i>	Market Manual 7.10: Ontario Electricity Emergency Plan	Ch. 5, Sec. 11.2.3, 11.2.4, and 11.2.5
8.	<i>Restoration participants</i>	<i>A restoration participant attachment</i> and such other system restoration-related information	At the time of registration and updated at least annually thereafter by the <i>market participant</i> . Information to be submitted to the <i>IESO</i> as required .		<i>Market participant Authorization</i>	Market Manual 7.8: <i>Ontario Power System Restoration Plan</i>	Ch. 5, Sec. 11.3.5, 11.3.6, and 11.3.7

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
9.	<i>Market participants</i>	<i>Emergency Preparedness Plan and/or Restoration Participant Attachment</i> audit and re-file	As and when directed by the IESO		Hard or electronic copy to the Manager, IESO 'Emergency Preparedness Department' at: Emergency.Preparedness@ieso.ca	Market Manual 7.10: <i>Ontario Electricity Emergency Plan</i>	Ch. 5, Sec. 11.4.4
10.	<i>RAS Owners</i>	<i>RAS</i> equipment maintenance for previous 12 months	Every 12 months	December 1 st	Hard or electronic copy to the Ontario Reliability Compliance (ORCP) team at ORCP@ieso.ca	NERC Standard PRC-017 (available on NERC website)	Ch. 5, Sec. 14.1.3.3
11.	<i>RAS Owners</i>	Operating statistics, performance information related to <i>RAS</i>	Annually, or By request by the IESO	December 31 st As specified by the IESO	Hard or electronic copy to the ORCP team at the IESO, ORCP@ieso.ca	NERC Standard PRC-016 and PRC-017 (available on NERC website)	Ch. 5, Sec. 8.3.1.2 and 8.3.1.3
12.	<i>RAS Owners</i>	Request and evaluation of request from affected market participant for permanent exemption	As required		Exemption Application Form on the IESO website	N/A	Ch. 5, Sec. 8.3.1.4

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Mean of Provision		
		from connection to <i>RAS</i>					
13.	<i>Market participants</i>	Summary of demand control actions for previous 12 months	Annually, or By request by the IESO	December 31 st As specified by the IESO	Hard or electronic copy to the ORCP team at the IESO, ORCP@ieso.ca ,	Information Submittal Form at IESO website when available. Market Manual 7.1: IESO-Controlled Grid Operating Procedures Market Manual 7.3: Outage Management The established procedures/principles in above documents and <i>market rules</i> to be used as guidelines, as applicable).	Ch. 5, Sec. 14.1.3.5 and 10.3
14.	<i>Market participants</i>	<i>Reliability</i> related performance measures for <i>transmission facilities</i> and connections to <i>IESO-controlled grid</i>	Annually, or By request by the IESO	December 31 st As specified by the IESO	Hard copy to the IESO, or electronic files via the ORCP mailbox at ORCP@ieso.ca , or the Reliability Compliance Tool (RCT) in Online IESO or as otherwise specified by the IESO.	Forms on the IESO website. IESO –Transmitter Operating Agreement with each <i>transmitter</i> .	Ch. 5, Sec. 14.1.3.7 and 5.4

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
15.	<i>Market participants</i>	Summary of automatic under-frequency load shedding activities for previous 12 months	Annually, or By request by the IESO	December 31 st As specified by the IESO	Electronic files via the ORCP mailbox at ORCP@ieso.ca .	<i>Operating Agreements</i>	Ch. 5, Sec. 14.1.3.6
16.	<i>Market participants</i>	Planned change to a setting on a fixed-tap transformer	As required	Within one week prior to scheduled change or within one business day of implementation of change	Outage Management System, Electronic copy to the IESO at: Market.Registration@ieso.ca	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 14.1.3.1
17.	<i>Market participants</i> Parties to <i>connection agreement</i>	Notice of equipment testing that requires change to normal operation of that equipment	As required	As per outage submission timelines outlined in MM 7.3	Outage Management System	Market Manual 7.3: Outage Management	Ch. 4, Sec. 5.1.5

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Mean of Provision		
18.	<i>Market participants</i>	Report describing proposed or emergency modifications to primary protection relay	As required	Within one week of date for IESO approval of proposed modification or within one week of unplanned, emergency modifications	Outage Management System, Outage Form Electronic copy to the IESO at: Market.Registration@ieso.ca	Market Manual 7.3: Outage Management	Ch. 5, Sec. 14.1.3.4
19.	<i>Distributor and Connected Wholesale Customer</i>	Estimate of <i>demand</i> reduction that has occurred as a result of disconnecting under-frequency <i>demand</i>	Within two weeks following an incident of under-frequency load shedding		Hard or electronic copy to ORCP team at the IESO, ORCP@ieso.ca	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 10.4.9
20.	<i>Generators and Electricity Storage Participants</i>	Frequency excursion ≥ 60.2 Hz or ≤ 59.8 Hz Restoration action to protect equipment,	As required	As soon as possible	By telephone to IESO Shift Operating Staff	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 10.5.2, 10.5.3 Electricity Storage: Ch. 5, Sec 10.5A.2 and 10.5A.3

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Mean of Provision		
		personnel or public safety, environment					
21a.	<i>Generators and Electricity Storage Participants (embedded and non-embedded)</i>	If facilities cannot operate in accordance with agreed schedule	As changes occur	As soon as possible	Telephone call Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 3.6.1.4 Electricity Storage: Chapter 5, Section 3.8.1
21b.	<i>Generators and Electricity Storage Participants (embedded and non-embedded)</i>	If facilities cannot operate in accordance with agreed schedule	As changes occur, promptly	As soon as possible	Changes in <i>bids/offers</i>	Market Manual 4.1: Submission of Dispatch Data in the Physical Markets	Ch. 5, Sec. 3.6.1.4 Electricity Storage: Ch. 5, Sec 3.8.1.4
22.	<i>Generators and Electricity Storage Participants</i>	Any change or anticipated change in the status of any generation facility, <i>electricity storage facility</i> , or related	As unavailabilities occur	As soon as possible	Telephone call Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 3.6.1.3 Electricity Storage: Ch. 5, Sec 3.8.1.3

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Mean of Provision		
		equipment that is associated with a <i>resource</i> that is under the dispatch control of the IESO, and could have a material impact on the IESO-controlled grid or the operation of IESO-administered markets (list of changes to be reported in Market Rules Chapter 5, Section 3.6.1.3)					
23.	<i>Market participants</i>	<i>Emergency</i> removal from service of equipment or <i>facilities</i>	As removals occur	As soon as possible	Telephone call Outage Management System Outage Form	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.1.6
24.	<i>Market participants</i>	Notice of forced outage, Nature and cause of forced outage	As outages occur	As soon as possible, and in any event ≤ 48 hours	Telephone call Outage Management System Incident Report	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.3.4 and 6.3.5

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
				after outage			
25.	<i>Market participants</i>	Action taken to control <i>demand</i>	As required	Prior notification by 10:00 EPT day prior	Through Outage Management System prior, Telephone call to advise of actions	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 10.2.1, 10.2.2, 10.2.3, and 10.2.4
26.	<i>Market participants</i>	Equipment test information (see Market Rules Chapter 5, Section 6.6.2 for list)	As tests occur	As per outage submission timelines outlined in MM 7.3	Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.6
27.	<i>Distributor or Connected Wholesale Customer</i>	Change or anticipated change in its <i>facilities</i> or equipment that could have a material impact on operation of <i>IESO-controlled grid</i> or <i>IESO-administered markets (Connected wholesale customers)</i> Change or anticipated change in capability of	As changes occur	As soon as possible, and as per outage submission timelines outlined in MM 7.3	Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 3.5.1.2 and 3.7.1.2

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		distribution <i>facilities</i> that could have a material impact on operation of <i>IESO-controlled grid</i> or <i>IESO-administered markets (Distributors)</i>					
28.	<i>Distributors</i>	Event in service territory that could have material effect on the <i>reliability</i> of the <i>IESO-controlled grid</i>	As events occur	As soon as possible	By telephone to IESO System Operations staff	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 3.7.1.3
29a.	<i>Market participants</i>	Submit <i>planned outage</i> in order to obtain IESO approval of <i>outage</i> ; provide time required to return <i>facilities</i> or equipment to service.	As required	As per outage submission timelines outlined in MM 7.3	Telephone call Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.4.1
29b.	<i>Market participants</i>	Notice and request of extension to originally approved <i>planned outage</i>	As extensions occur	As soon as possible	Telephone call Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.4.7

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
30.	<i>Market participants</i>	Information and reports to facilitate preparation of disturbance report by IESO for <i>standards authority</i>	As required	Within 48 hours and follow-ups as required	Initially be telephone Hard or electronic copy to the ORCP team at the IESO, ORCP@ieso.ca	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 14.1.5
31.	<i>Transmitters</i>	Frequency values for stations, when under-frequency alarm or indication of declining frequency and voltage Amount and location of load shed and conditions on <i>IESO-controlled grid</i>	As required	As soon as possible after occurrence	By telephone to IESO System Operations staff	Market Manual 7.1: IESO-Controlled Grid Operating Procedures	Ch. 5, Sec. 10.4.2 and 10.4.4
32.	<i>Transmitters and Distributors</i>	Annual total forecast peak <i>demand</i> by <i>connection point</i> Annual total forecast peak <i>demand</i> that can be disconnected within various time scales, by <i>connection point</i>	Annually	By week 24 of calendar year	Hard or electronic copy to the ORCP team, ORCP@ieso.ca	Market Manual 7.1: <i>IESO-Controlled Grid</i> Operating Procedures Market Manual 7.3: Outage Management (The established procedures/principles in above documents and Market Rules	Ch. 5, Sec. 10.2.5.3 and 10.2.5.4

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
						Section 10.2, to be used as guidelines for submission)	
33.	<i>Transmitters, Generators, and Electricity Storage Participants</i>	<i>Outage plans for facilities forming part of the IESO-controlled grid</i> Provide <i>outage</i> information for IESO to review for the purpose of the Reliability Outlook assessments	As required	As per the submission timelines outlined in Market Rules Chapter 5, Sections 6.2.4.1 and 6.2.4.2	Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.2.4
34.	<i>Market participants</i>	Schedule of all <i>planned outages</i> , regardless of duration	As required	As per outage submission timelines outlined in MM 7.3	Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.3.1
35.	<i>Generators and Electricity Storage Participants</i>	Data for <i>IESO reliability assessments</i> and Reliability Outlook. Refer to reference	Annually Refer to reference document	April 1 of each year	Electronic copy to IESO at: Forecasts.Assessments@ieso.ca	Market Manual 2.8: Reliability Assessments Information Requirements	Ch. 5, Sec. 7.2 and 7.5

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		document for specific data requirements	for schedule				
36.	<i>Transmitters</i>	Data for <i>IESO</i> Reliability Outlook report. Refer to reference document for specific data requirements	Quarterly; refer to reference documents for schedule	January 1, April 1, July 1, October 1 of each year	Electronic copy to IESO at: Forecasts.Assessments@ieso.ca	Market Manual 2.8: Reliability Assessments Information Requirements Market Manual 2.11: Reliability Outlook and Related Information Requirements	Ch. 5, Sec. 7.2 and 7.5
37.	<i>Generators and energy limited resources</i>	Data for <i>IESO</i> 34-day <i>adequacy</i> assessments. Refer to reference document for specific data requirements	Weekly	EOB Everyday Tuesday	Electronic copy to <i>IESO</i> via Online IESO	Market Manual 7.2: Near-Term Assessments and Reports	Ch. 5, Sec. 7.5
38.	<i>Connected Wholesale Customers</i>	<i>Planned outage</i> , closure, test or similar event for next 4 <i>trading weeks</i> that results in change in <i>demand</i> of ≥ 20 MW <i>Planned outage</i> closure, test or similar event for next 4	Every second trading week	By 2:00 p.m. on last trading day of every second trading week	Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 3.5.1.5

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		<i>trading weeks of a facility specifically designated by the IESO</i>					
39.	<i>Market participants</i>	Data required to satisfy request by <i>standards authority</i>	As specified by the IESO		Hard copy to the IESO, or electronic files via the ORCP mailbox at ORCP@ieso.ca , or the Reliability Compliance Tool (RCT) in Online IESO, or as otherwise specified by the IESO.	Market Manual 11.0: Reliability Compliance Monitoring and Enforcement Overview Market Manual 11.2: Ontario Reliability Compliance Program	Ch. 5, Sec. 14.1.4
40.	<i>Transmitter</i>	<i>Transmission system reliability</i> related information required for scheduling and <i>dispatching in real time</i>	As frequently as necessary in accordance with the requirements of Market Rules Chapter 7, Section 3.9	130 minutes prior to the <i>dispatch</i> hour	Real Time Network, Outage Management System, and Market Registration, as applicable	Market Manual 4.2: Submission of Dispatch Data in the Physical Markets	Ch. 7, Section 3.12 Ch. 7, Appendix 7.4

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
41.	<i>Market Participants (dispatchable generation facilities)</i>	Dispatch data submission requirements for a <i>GOG-eligible resource</i>	As required	During registration and before each activation	Online IESO <i>Dispatch</i> workstation	Market Manual 4.1: Submitting Dispatch Data in the Physical Markets Market Manual 4.3 Operation of the Real-Time Market	Ch. 7, Sec. 2.2.21 and 3.5.
42.	<i>Market Participants</i>	Replacement <i>Energy</i> to support <i>planned outages (boundary entity, time period, amount, etc.)</i>	As required	16:00 EST three business days prior to the commencement of the shortfall week(s)	Online IESO <i>Dispatch</i> workstation Outage Management System	Market Manual 7.3: Outage Management	Ch. 5, Sec. 6.3.6 to 6.3.10
43.	<i>Market Participants</i>	RMR (<i>Reliability Must Run</i>) amounts, locations, time, etc.	As required	As soon as possible	Telephone call Electronic copy	Market Manual 7.3: Outage Management	Ch. 5, Sec. 4.8
44.	<i>Market Participants</i>	Information regarding market operations to assist the <i>IESO</i> in	As required	Immediately prior to and during	Telephone call By electronic or hard copy to Manager,	Market Manual 4.5: Market Suspension and Resumption	Ch. 7, Sec. 13.7.2

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		analyzing the suspension		the suspension period	System Operations at <i>IESO</i>		
45.	<i>Market Participants</i>	Information and <i>Request for Segregation</i> for approval to operate its <i>resource</i> in a <i>segregated mode of operation</i>	As required	As per the timelines outlined in Market Rules Chapter 7, Appendix 7.7, Section 1.3	Telephone call Outage Management System	Market Manual 7.3: Outage Management	Ch. 7, Appendix 7.7, Section 1.3
46.	<i>Market Participants</i>	Information/communications during <i>planned outage</i>	As required	As soon as possible	Telephone call Outage Management System		Ch. 5, Sec. 6.1.7
47.	External Reliability Coordinators(RCs)	Network data including, generators, transformers, lines, loads, shunts, breakers, switches, connectivity information, as well as	Upon request of the IESO (subject to model build frequency of data provider)	Within the first week following the deployment of a production	NEMF (North East Modeling Format) via SharePoint	MISO-IESO Operating Instruction: MISO-IESO-C05-R2 MISO-IESO EMS Data Exchange: MISO-IESO COX-R0	

Item No.	Information From	Information Description	Provision			Reference Document	Market Rule Reference
			Periodicity	Deadline	Format/Means of Provision		
		any other equipment supplementary data		model release			
48.	External RCs	Real-time telemetry	Continual basis	Next available ICCP build	EIDSN's Elnet, ICCP	MISO-IESO Operating Instruction: MISO-IESO-C05-R2 MISO-IESO EMS Data Exchange: MISO-IESO C0X-R0 EIDSN: Node Responsibilities	

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References

Document ID	Document Name
	NERC Standards
	NPCC Criteria
	Reliability Assessments and Regional/Interregional Studies
RUL-6 to RUL-24	Market Rules
MAN-129	Market Manual 1.4: Connection Assessment and Approval
MAN-108	Market Manual 1.5: Market Registration
MAN-138	Market Manual 2.8: Reliability Assessments Information Requirements
MAN-140	Market Manual 2.11: Reliability Outlook and Related Information Requirements
MAN-109	Market Manual 4.1: Submitting Dispatch Data in the Physical Markets
MAN-111	Market Manual 4.3 Operation of the Real-Time Market
MAN-113	Market Manual 4.5: Market Suspension and Resumption
MAN-121	Market Manual 7.1: IESO-Controlled Grid Operating Procedures
	Market Manual 7.2: Near Term Assessments and Reports
MAN-123	Market Manual 7.3: Outage Management
MAN-124	Market Manual 7.4: IESO-Controlled Grid Operating Policies
MAN-157	Market Manual 7.8: Ontario Power System Restoration Plan
MAN-158	Market Manual 7.10: Ontario Electricity Emergency Plan
MAN-159	Market Manual 11.0: Reliability Compliance Monitoring and Enforcement Overview
MAN-161	Market Manual 11.2: Ontario Reliability Compliance Program

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