

# CATALOGUE



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## Market Manual 11: Reliability Compliance

# Part 11.3: Reliability Information Catalogue

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**Issue 3.0**

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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## Document Change History

Issue	Reason for Issue	Date
1.0	This manual is new, superseding Market Manual 7.5 "Reliability Information Catalogue"	March 6, 2013
2.0	Issue released in advance of Baseline 33.1 to update the IESO logo.	March 31, 2015
3.0	Issue released in advance of Baseline 36.0	June 21, 2016

## Related Documents

Document ID	Document Title
N/A	

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## Table of Changes

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Reference (Section and Paragraph)	Description of Change
All	Replaced references to “System Status Report” with “advisory notice”.
Sections 2 and 3	Updated reliability information tables to reflect new reporting process.

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## Market Manuals

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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

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

– End of Section –

# 1. Introduction

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## 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](mailto:customer.relations@ieso.ca) or contact us by telephone or mail. Our telephone numbers and mailing address can be found on the *IESO* website (<http://www.ieso.ca/Pages/Contact-Us.aspx>). Customer Relations staff will respond as soon as possible.

– End of Section –

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## 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 Rules Reference	
						Chapter	Section
1.	<i>Market participants</i>	<i>Reliability Standards NERC/NPCC</i>	Ongoing	By e-mail from the IESO or by links to <a href="http://www.ieso.ca/imoweb/ircp/ircp.asp">http://www.ieso.ca/imoweb/ircp/ircp.asp</a> <a href="http://www.nerc.com">http://www.nerc.com</a> <a href="http://www.npcc.org">http://www.npcc.org</a>	<a href="#">NERC Standards</a> <a href="#">NPCC Criteria</a>	4	2.1.1
2.	<i>Market participants</i>	<i>Reliability policy and security for local area supply</i>	Ongoing	"Market manual" (Details upon request of authorized <i>market participants</i> , subject to confidentiality provisions.)	"Market Manual 7: System Operations. Part 7.4: IESO-Controlled Grid Operating Policies". (Appendix B: <i>Reliability Standards and Security Criteria</i> .)	5	5.4

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
3.	<i>Market participants</i>	Equipment Performance Standards	Ongoing	<p>IESO website  <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>  <i>"Market Rules"</i></p>	<p>General:  Appendix 4.1 of <i>"Market Rules"</i> (Chapter 4)</p> <p><i>Generators:</i>  Appendix 4.2 of <i>"Market Rules"</i> (Chapter 4)</p> <p><i>Connected Wholesale Customers and Distributors Connected to IESO-Controlled Grid:</i>  Appendix 4.3 of <i>"Market Rules"</i> (Chapter 4)</p> <p><i>Transmitter:</i>  Appendix 4.4 of <i>"Market Rules"</i> (Chapter 4)</p>	4	3.1.1
4.	<i>Market participants</i>	Operating Procedures and Instruction	Ongoing	<p>IESO website  <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>  -----  Upon request of authorized <i>Market Participants</i>, subject to confidentiality provisions</p>	<p>"Market Manual 7: System Operations - Part 7.1: System Operating Procedures"</p> <p>For internal procedures: Publicly available System Control Orders (SCO) and Internal Manuals</p>	5	3.2.3

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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 <a href="http://www.ieso.ca/">http://www.ieso.ca/</a> OEB website <a href="http://www.oeb.gov.on.ca">http://www.oeb.gov.on.ca</a>	<ul style="list-style-type: none"> <li>“Market Rules Appendices 4.2 to 4.9 (Chapter 4)</li> <li>Transmission System Code (OEB), and Appendices</li> </ul> <p>Other reference documents to be added when developed.</p>	4	<i>Transmitters</i> :3.3.1.3 <i>Generators:</i> 3.4.1.3 <i>Connected Wholesale Customers and Distributors Connected to IESO-Controlled Grid:</i> 3.5.1.3, 5
6.	<i>Market participants</i>	<i>Ancillary Service provider performance standards: black start, regulation, voltage control and reactive support, and Operating Reserve.</i>	Ongoing	“Market Rules”	Appendix 5.1 of “Market Rules” (Chapter 5)	5	4.2.2 , 4.3.2
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	IESO website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	Appendix 5.1 of “Market Rules” (Chapter 5) contains performance standards “Market Manual 7 System Operations. Part 7.8: Ontario Power System Restoration Plan”	5	4.9

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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 IOMS	"Market Manual 7: System Operations: Part 7.3: Outage Management". (Sections 1.3 and Appendix B).	5	6.1.3
9.	<i>Market participants</i>	<i>Planned outage</i> information provided by <i>transmitters</i> and <i>generators</i> subject to confidentiality provisions	Refer to reference document for schedule	Included in the <i>security</i> and <i>adequacy</i> assessments	(1) "Market Manual 7: System Operations. Part 7.3 Outage Management"  (2) "Market Manual 7: System Operations – Part 7.2 Near Term Assessments and Report"	5	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: Market Administration. Part 2.11: 18-Month Outlook and Related Information Requirements"	5	6.2.5.2
11.	<i>Market participants</i>	<i>Dispatch criteria for Special Protection Systems (SPS)</i> e.g. Load rejection, <i>generation</i> rejection	Ongoing; updates as criteria changes	<i>IESO</i> website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	"Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ". (Sections 4.6.1, 4.6.2 , 4.7 and Appendix D)	5	8.2.4

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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 <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	"Market Manual. Part 7.1: System Operating Procedures" (Section 4.6.3)	5	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 <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	(1) "Market Manual. Part 7.1: System Operating Procedures" (Section 4.6.3)	5	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 <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	Covered in: (2) "Market Manual. Part 7.1: System Operating Procedures" (Section 4.6.1) (3) "Market Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ." (Section 4.4)	5	10.4.7
15.	<i>Minister of Energy</i>	<i>Ontario electricity emergency plan</i> and <i>emergency preparedness plan</i> for major <i>market participants</i> – filing with <i>Minister</i> (see subsection 39(1) of the <i>Electricity Act</i> , 1998)	As required	<i>IESO</i> website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	<i>Emergency Preparedness</i> link on the <i>IESO</i> website <a href="http://www.ieso.ca/imoweb/EmergencyPrep/preparedness.asp">http://www.ieso.ca/imoweb/EmergencyPrep/preparedness.asp</a>	5	11.2.2
16.	<i>Minister of Energy</i>	<i>Ontario power system restoration plan</i> – filing with <i>Minister</i>	As required	<i>IESO</i> website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	"Market Manual 7 System Operations. Part 7.8: <i>Ontario Power System Restoration Plan</i> "	5	11.3.4

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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>	5	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</i> website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a>	"Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ".	5	5.1.2.3
19.	<i>Market participants</i>	<i>Transmission transfer capabilities</i>	Ongoing, updates as changes occur	By e-mail. <i>IESO</i> website <i>NERC</i> website <i>NPCC</i> website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a> <a href="http://www.nerc.com/">http://www.nerc.com/</a> <a href="http://www.npcc.org/">http://www.npcc.org/</a>	(1) <i>Reliability Assessments and Regional/interregional Studies</i> , available on <i>NERC</i> and <i>NPCC</i> websites  (2) 18-month outlooks, on <i>IESO</i> website	5	5.2.2 and 5.2.1

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
20.	<i>Market participant</i>	<i>Demand Forecast Methodology</i>	Ongoing, updated as changes in methodology occur	IESO website <a href="http://www.ieso.ca">http://www.ieso.ca</a>	(1) "Market Manual 7: System Operations. Part 7.2: Near Term Assessments and Reports" (Appendix C)  (2) "Market Manual 2. Part 2.11: 18-Month Outlook and Related Information Requirements"  (3) "Market Manual 2. Part 2.8: Reliability Assessments Information Requirements"	5	7.1.3



Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
21.	<i>Market participants</i>	<i>Advance security and adequacy assessments of IESO-controlled grid</i>	<p>For the next 34 days Refer to reference document for schedule</p> <p>Quarterly: For at least the next 18 months</p> <p>Annually: Exceeding the 18 month timeframe</p>	<p><i>Market Manuals, Quarterly and Annual assessments outlooks available at the IESO website <a href="http://www.ieso.ca/">http://www.ieso.ca/</a></i></p> <p><i>Security and adequacy assessments available on website</i></p>	<p>(1) "Market Manual 7: System Operations. Part 7.1: System Operating Procedures". (Section 4.1.2)</p> <p>(2) "Market Manual 7: System Operations. Part 7.2: Near Term Assessments and Reports", for the daily and weekly assessments.</p> <p>(3) "Market Manual 2. Part 2.11: 18-Month Outlook and Related Information Requirements", for monthly assessments.</p> <p>(4) "Market Manual 2. Part 2.8: Reliability Assessments Information Requirements"</p>	5	7.3

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
22.	<i>Market participants</i>	<i>Demand</i> forecasts for Ontario or parts thereof	For the next 34 days Refer to reference document for schedule  Monthly: For next 18 months  Annually: Exceeding the 18 month timeframe	<i>Market Manuals, Quarterly and Annual assessments available at the IESO website</i> <a href="http://www.ieso.ca/">http://www.ieso.ca/</a> <i>Adequacy</i> assessments available on website	For the daily and weekly: “Market Manual 7: System Operations. Part 7.2: Near Term Assessments and Reports”  For monthly: “Market Manual 2. Part 2.11: 18-Month Outlook and Related Information Requirements”  For yearly: “Market Manual 2. Part 2.8: Reliability Assessments Information Requirements”	5	7.1.1
23.	<i>Market participants</i>	<i>IESO-controlled grid emergency operating state</i> anticipated or declared	As required; promptly	Advisory notice, or telephone call if required	“Market Manual 7: System Operations. Part 7.1: System Operating Procedures” (Section 3.5)  List of <i>Emergency Operating State</i> Control Actions (EOSCA) as per “Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ”.	5	2.3.3

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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 Control Actions (EOSCA)</i> as per “Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ”.  <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: System Operations. Part 7.1: System Operating Procedures” (Section 3.4.1) “Market Manual 7: System Operations. Part 7.3 Outage Management” (Section 1.3.4 and 1.3.5)	5	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: System Operations Part 7.2: Near Term Assessments and Reports”	5	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	OPSRP – Version 3.0 Section 7.0	5	4.7.2

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
28.	<i>Market participants</i>	Conditions on <i>IESO-controlled grid</i> that may require <i>demand</i> reductions by <i>non-dispatchable load</i>	As required, promptly	Advisory notice  ----- SCOs upon request of authorized <i>Market Participants</i> , subject to confidentiality provisions	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures". (Section 3.4.1.)  Also System Control Order SCO 425 (Controlled Rotation and <i>Emergency Load shedding</i> )	5	10.1.2
29.	<i>Market participants</i>	Warning of request to reduce <i>demand</i> through voltage reductions or interruptions	By 16:00 hrs of previous day (whenever possible)	Advisory notice  ----- SCOs upon request of authorized <i>Market Participants</i> , subject to confidentiality provisions	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures" (Section 3.4.1).  List of <i>Emergency Operating State Control Actions</i> (EOSCA) as per "Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ".  Also System Control Orders SCO 424 (Load Reduction through Supply Voltage Reduction) , SCO 425 (Controlled Rotation and <i>Emergency Load Shedding</i> )	5	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: System Operations. Part 7.1: System Operating Procedures" (Section 3.4.1).	5	10.4.5

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
31.	<i>Market participants</i>	The total of MW of <i>energy</i> being directed to submit <i>bids</i> or <i>offers</i> from the aggregate of <i>reliability must-run resources</i> under <i>reliability must-run contracts</i>	As required, promptly	Advisory notice	"Market Manual 7. Part 7.2: Near-Term Assessments and Reports" (Appendix D).	7	12.1.2.5
32.	<i>Market Participants</i>	Issuance of a System Advisory for under-generation via an advisory notice.	2 days prior to <i>dispatch day</i> ; 1 day prior to <i>dispatch day</i> ; any time thereafter if condition is present	Advisory notice	List of <i>Emergency Operating State Control Actions</i> (EOSCA) as per "Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ".  "Market Manual 4: Market Operations. Part 4.2 Submission of <i>Dispatch Data</i> in the <i>Real-Time Energy</i> and <i>Operating Reserve Markets</i> " Section 1.3.3 and Appendix E.	7	12.1.1 12.1.3.2 12.1.3.3
33.	<i>Market participants</i>	<i>Pre-dispatch schedule- reliability related</i> information total system load and losses, <i>projected hourly energy shortfalls</i> , <i>operating reserve</i> requirements and shortfalls, <i>reliability must-run resources</i> and <i>security constraints</i> .	As required under relevant <i>market rules</i> and <i>market manual</i>  Initial <i>pre-dispatch schedule</i> by 12:00 EST of each <i>pre-dispatch day</i>	MPI ( <i>Market Participant Interface</i> )/Dispatch Workstation  Adequacy Report, Transmission Facility Outage Limits Report, and advisory notices	"Market Manual 4: Market Operations. Part 4.2 Submission of <i>Dispatch Data</i> in the <i>Real-Time Energy</i> and <i>Operating Reserve Markets</i> " (Section 1.3.7, Table 3.1, Appendix E)  "Market Manual 4: Market Operations. Part 4.3 <i>Real-Time Scheduling of the Physical Markets</i> " (Details given in Table 3.2 and 3.3)	7	5.5 (5.5.3.1 to 5.5.3.8)

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
34.	<i>Market participants</i>	<i>Real-Time schedule- reliability related information: total system load and losses, area operating reserve requirements and shortfalls, list of network and security constraints affecting real-time schedule</i>	As required under relevant <i>market rules</i> and <i>market manual</i> Within five minute period after each <i>dispatch interval</i> for <i>operating reserve</i> , and for other items: within one hour after end of each <i>dispatch hour</i>	MPI ( <i>Market Participant Interface</i> ) /Dispatch Workstation	"Market Manual 4: Market Operations. Part 4.3 <i>Real-Time Scheduling of the Physical Markets</i> " (Details given in Table 3.1, 3.2 and 3.3)	7	6.5 (6.5.3.1, 6.5.3.2, 6.5.3.6, 6.5.3.7)
35.	<i>Market participants</i>	<i>Real-Time dispatch – reliability related information: total load met, transmission capacity, outages of transmission facilities, total operating reserve scheduled and total energy called from such operating reserve</i>	As required under relevant <i>market rules</i> and <i>market manual</i> Within one hour after each <i>dispatch hour</i>	<i>Real Time</i> Dispatch Workstation	"Market Manual 4: Market Operations. Part 4.3 <i>Real-Time Scheduling of the Physical Markets</i> " (Details given in Table 3.2 and 3.3)	7	7.8 (7.8.1.1 to 7.8.1.4)

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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 <a href="http://www.ieso.ca">Http://www.ieso.ca</a>	"Market Manual 4: Market Operations Part 4.5: Market Suspension and Resumption"	7	13.7.3 and 13.7.4
37.	<i>Market participants</i>	Estimate of aggregate load curtailed following return to a <i>normal operating state</i>	As soon as practicable	MPI ( <i>Market Participant Interface</i> )/ <i>Real Time</i> Dispatch Workstation	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures".	5	10.3.7
38.	<i>Market Participants (dispatchable generation facilities)</i>	Spare Generation on-line – expected start time, run time, spare <i>generation</i> amount	Hourly basis	MPI ( <i>Market Participant Interface</i> ) / Dispatch Workstation	"Market Manual 4; Market Operations. Parts 4.2, 4.3"	7	2.2B, 5.7, 6.3A
39.	<i>Market Participants</i>	Acceptance/Approval of planned Replacement <i>Energy</i> to Support <i>Planned Outages (boundary entity, time period, amount etc)</i>	Promptly	MPI ( <i>Market Participant Interface</i> ) / Dispatch Workstation		5	6.3.6 - 6.3.10
40.	<i>Market Participants</i>	RMR ( <i>Reliability Must Run</i> ) requirements to <i>generators, dispatchable loads</i>	As soon as possible	By Phone/Electronically		5	4.8
41.	<i>Market Participants</i>	<i>Information/communications during Planned Outage</i>	As required	Telephone Call, IOMS, Outage Form		5	6.1.7

Item No.	Information To	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
42.	<i>Market Participants</i>	<i>Emergency Demand Response Load. IESO may request these loads to reduce consumption prior to or during an emergency operating state</i>	As required	Telephone notification call if required	“Market Manual 7: System Operations. Part 7.1: System Operating Procedures” (Section 3.5)  List of <i>Emergency Operating State Control Actions (EOSCA)</i> as per “Market Manual 7: System Operations Manual. Part 7.4: <i>IESO-Controlled Grid Policies</i> ”	5	4.8A.1, 2.3.3
43.	<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	<i>IESO</i> website <a href="http://www.ieso.ca">http://www.ieso.ca</a> MPI (Market Participant Interface) / Dispatch Workstation	“Market Manual 4: Market Operations. Part 4.3: Real-Time Scheduling of the <i>Physical Market</i> ”. Section 1.6.1  “Market Manual 4: Market Operations. Part 4.2: <i>Dispatch Data in the Real-Time Energy and Operating Reserve Markets</i> ”. Section 1.3.1	5	4.5.6 A

– 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	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
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: Reliability Compliance. Part 11.3: <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.</p>	Upon request of the <i>IESO</i>	<p>Hard or electronic copy to IRCP (<i>IESO Reliability Compliance Program</i>) team<sup>1</sup> at the <i>IESO</i>. <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a></p> <p>To facilitate <i>market participants</i> in the submission of <i>reliability</i> compliance related information, where applicable, a dedicated e-mail link to the <i>Reliability Compliance Program</i> has been established that would be utilized for e-mailing the information to the <i>IESO</i> via <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>.</p>	"Market Manual 11: Reliability Compliance. Part 11.2: <i>Ontario Reliability Compliance Program</i> "	5 4	14 and 3 1 to 5

<sup>1</sup> IRCP Team to make initial contact with the *market participants*.

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
2.	<i>Market participants</i>	Network Impact Information for proposed new or modified connection to <i>IESO-controlled grid</i>	At least 60 days prior to proposed change	As per Connection Assessment and Approval process	<p>General:  “Market Manual 2: Market Administration. Part 2.10: Connection Assessment and Approval”</p> <p><i>Generators:</i>  Appendix 4.6 of “<i>Market Rules</i> (Chapter 4).  <i>Connected Wholesale Customers and Distributors Connected to the IESO-Controlled Grid:</i>  Appendix 4.7 of “<i>Market Rules</i>” (Chapter 4).  <i>Registered Facilities providing Ancillary Services:</i>  Appendix 4.8 of “<i>Market Rules</i> (Chapter 4).  <i>Transmitters:</i>  Appendix 4.9 of “<i>Market Rules</i>” (Chapter 4).</p>	4	6.1.6

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
3.	<i>Market participants</i>	Connection Information Equipment ratings, in form suitable for dynamic calculation Functional descriptions, equipment ratings and operating restrictions for equipment and distribution <i>facilities</i> included within the <i>IESO-controlled grid</i> .	As part of <i>facility</i> registration	<i>Facility</i> Registration <a href="mailto:Facility.Registration@ieso.ca">Facility.Registration@ieso.ca</a>	General: "Facility Registration Guide" "Market Manual 1: Market Entry. Part 1.2: Facility Registration" Appendix 4.5A to 4.9 of "Market Rules" (Chapter 4)	4 5 5	6.1.11 5.2.5 <i>Generators:</i> 3.6.1.2 <i>Distributors:</i> 3.7.1.4 <i>Transmitters:</i> 3.4.1.3
4.	<i>Generator and Connected Wholesale Customer</i>	<i>Connection Agreement</i> with <i>transmitter</i> or <i>distributor</i> for new or modified <i>connection facility</i>	<i>Facility</i> Registration	<i>Facility</i> Registration <a href="mailto:Facility.Registration@ieso.ca">Facility.Registration@ieso.ca</a>	<a href="#">OEB Transmission and Distribution System Codes</a> "Facility Registration Guide" "Market Manual 1: Market Entry. Part 1.2: Facility Registration"	4 7	4 and 6 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	Within 6 months following the coming into force of Chapter 4.	OEB Transmission Code	<a href="#">OEB Transmission and Distribution System Codes</a> "Market Manual 2: Market Administration. Part 2.10: Connection Assessment and Approval"	4	6.1

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
6.	<i>Market participants</i>	<i>IESO Monitoring Requirements</i>	Continual Basis	Control and Monitoring Equipment through <i>real-time</i> network	<p><i>Generators:</i> Appendix 2.2 of “<i>Market Rules</i>” (Chapter 2) Appendix 4.15 and 4.19 of “<i>Market Rules</i>” (Chapter 4)</p> <p><i>Transmitters:</i> Appendix 2.2 of “<i>Market Rules</i>” (Chapter 2) Appendix 4.16, 4.20, and 4.21 of “<i>Market Rules</i>” (Chapter 4)</p> <p><i>Connected Wholesale Customers and Distributors Connected to IESO-Controlled Grid:</i> Appendix 2.2 of “<i>Market Rules</i>” (Chapter 2) Appendix 4.17 and 4.22 of “<i>Market Rules</i>” (Chapter 4)</p> <p>Embedded Load Customers: Appendix 2.2 of “<i>Market Rules</i>” (Chapter 2) Appendix 4.18 and 4.23 of “<i>Market Rules</i>” (Chapter 4)</p>	4	7.3  7.4  7.5  7.6
7.	<i>Generators (embedded and connected)</i>	Maximum unit capabilities (physical rating) to facilitate <i>dispatch</i> in an <i>emergency operating state</i>	<i>Facility Registration</i>	<i>Facility Registration</i> <a href="mailto:Facility.Registration@ieso.ca">Facility.Registration@ieso.ca</a>	Facility Registration Guide	5	3.6.1.5

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
8.	<i>Market participants</i>	<i>Emergency Preparedness Plan and such other emergency preparedness-related information</i>	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</i> Authorization	<i>Ontario Electricity Emergency Plan</i>	5	11.2.3 and 11.2.4
9.	<i>Market participants</i>	<i>A restoration participant attachment and such other system restoration-related information</i>	Annually	<i>Market participant</i> Authorization	<i>Ontario Electricity Emergency Plan</i>	5	11.3.5, 11.3.6, and 11.3.7
10.	<i>Market participants</i>	<i>Emergency Preparedness Plan and/or restoration participant attachment audit and re-file</i>	As and when directed by the <i>IESO</i>	Hard or electronic copy to the Manager, via 'Emergency Preparedness Department' at the <i>IESO</i> at: <a href="mailto:Emergency.Preparedness@ieso.ca">Emergency.Preparedness@ieso.ca</a>	<i>Ontario Electricity Emergency Plan</i>	5	11.4.4

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
11.	<i>Market participants</i>	Manner in which the <i>market participant</i> will minimize the cutting and expedite the restoration of critical loads and priority loads during short and prolonged <i>emergencies</i>	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>Emergency Preparedness Plan</i>	<i>Ontario Electricity Emergency Plan</i>	5	11.2.4, 11.2.3, and 11.3.6
12.	SPS Owners	SPS Equipment maintenance for previous 12 months	No later than Dec 1 of each year	Hard or electronic copy to IRCP team at the <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	NERC Standard PRC-017 (available on NERC website)	5	14.1.3.3
13.	SPS Owners	Operating statistics , performance information related to SPS	On an annual basis and when requested by <i>IESO</i>	Hard or electronic copy to IRCP team at the <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	NERC Standard PRC-016 and PRC-017 (available on NERC website)	5	8.3.1.2 and 8.3.1.3
14.	SPS Owners	Request and evaluation of request from affected <i>market participant</i> for permanent <i>exemption</i> from connection to SPS	As required	Exemption Application Form on the <i>IESO</i> website.	"Market Rules"	5	8.3.1.4

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
15.	<i>Market participants</i>	Summary of <i>demand</i> control actions for previous 12 months	Annually; as and when requested by <i>IESO</i>	Hard or electronic copy to IRCP at the <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	Information Submittal Form at <i>IESO</i> website when available. “Market Manual 7: System Operations. Part 7.1: System Operating Procedures” (Sections 4.5 and 4.6) “Market Manual 7: System Operations. Part 7.3: Outage Management” Sections 1.3.7, 1.3.6, 1.3.8 (The established procedures/principles in above documents and “ <i>Market Rules</i> ” to be used as guidelines, as applicable).	5	14.1.3.5 10.3
16.	<i>Market participants</i>	<i>Reliability</i> related performance measures for <i>transmission facilities</i> and connections to <i>IESO-controlled grid</i>	Annually; and when requested by <i>IESO</i>	Hard or electronic copy to IRCP at the <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	Forms at <i>IESO</i> website . <i>IESO –Transmitter Operating Agreement</i> with each <i>transmitter</i> .	5	14.1.3.7 5.4
17.	<i>Market participants</i>	Summary of automatic under-frequency load shedding activities for previous 12 months	Annually; and when requested by the <i>IESO</i>	Form at the <i>IESO</i> website when available Hard or electronic copy to IRCP at the <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	<i>Operating Agreements</i>	5	14.1.3.6

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
18.	<i>Market participants</i>	Planned change to a setting on a fixed-tap transformer	Within one week prior to scheduled change	IOMS, Outage Form Electronic copy to the IESO at: <a href="mailto:Facility.Registration@ieso.ca">Facility.Registration@ieso.ca</a>	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures". (Sections 3.3 and 4.2.1)	5	14.1.3.1
19.	<i>Market participants Parties to connection agreement</i>	Notice of equipment testing that requires change to normal operation of that equipment	As testing proposed; ( $\geq$ 4 weeks prior to planned test)	IOMS, Outage Form	"Market Manual 7: System Operations. Part 7.3 Outage Management"	4	5.1.5
20.	<i>Market participants</i>	Report describing proposed or <i>emergency</i> modifications to primary protection relay	Within one week of date for IESO approval of proposed modification or within one week of unplanned, <i>emergency</i> modifications	IOMS, Outage Form Electronic copy to IESO at: <a href="mailto:Facility.Registration@ieso.ca">Facility.Registration@ieso.ca</a>	"Market Manual 7: System Operations. Part 7.3: Outage Management"	5	14.1.3.4
21.	<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 IRCP at IESO. <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures"	5	10.4.9



Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
22.	<i>Generators</i>	Frequency excursion $\geq 60.2\text{Hz}$ or $\leq 59.8\text{Hz}$ Restoration action to protect equipment, personnel or public safety, environment	Immediately	By telephone to <i>IESO</i> Shift Operating Staff	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures". (Section 3.4.3).	5	10.5.2  10.5.3
23.	<i>Generators</i> (embedded and non-embedded)	If <i>facilities</i> cannot operate in accordance with agreed schedule	As changes occur; promptly	Telephone Call, IOMS, Outage Form  Changes in <i>bids/offers</i>	"Market Manual 7: System Operations. Part 7.3 : Outage Management"  "Market Manual 4: Market Operations. Part 4.2 Submission of <i>Dispatch Data</i> in the <i>Real-Time Energy</i> and <i>Operating Reserve Markets</i> "	5	3.6.1.4
24.	<i>Generators</i>	Any change or anticipated change in the status of any <i>generation facility</i> or related equipment that is under the <i>dispatch</i> control of the <i>IESO</i> , and could have a material impact on the <i>IESO-controlled grid</i> or the operation of <i>IESO-administered markets</i> (list of changes to be reported in Section 3.6.1.3)	As unavailability occurs, promptly	Telephone Call, IOMS, Outage Form	"Market Manual 7: System Operations. Part 7.3 Outage Management"	5	3.6.1.3
25.	<i>Market participants</i>	<i>Emergency</i> removal from service of equipment or <i>facilities</i>	As removal occurs; promptly	Telephone Call, IOMS, Outage Form	"Market Manual 7: System Operations. Part 7.3 Outage Management"	5	6.1.6

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
26.	<i>Market participants</i>	Notice of <i>forced outage</i>  Nature and cause of <i>forced outage</i>	As <i>outages</i> occur; promptly ≤ 48 hrs after <i>outage</i>	Telephone Call, IOMS, Outage Form  Incident Report	“Market Manual 7: System Operations. Part 7.3 Outage Management”	5	6.3.4  6.3.5
27.	<i>Market participants</i>	Action taken to control <i>demand</i> (list of actions and information to be reported listed in Sections 10.2.2, 10.2.3 and 10.2.4 of “Market Rules”)	Prior notification by 10:00 EST day prior.  Advise of actions as soon as possible	Through IOMS prior.  Telephone call to advise of actions	“Market Manual 7: System Operations. Part 7.1: System Operating Procedures”. (Sections 3.5, 4.5.1 and 4.5.2)	5	10.2.1
28.	<i>Market participants</i>	Equipment test information (see Section 6.6.2 for list)	Sufficiently in advance of proposed test to allow co-ordination and assessment	Letter or e-mail; then <i>outage</i> request through IOMS	“Market Manual 7: System Operations. Part 7.3 Outage Management”	5	6.6
29.	<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</i> ( <i>Connected wholesale customers</i> )  Change or anticipated change in capability of <i>distribution facilities</i> that could have a material impact on operation of <i>IESO-controlled grid</i> or <i>IESO-administered markets</i> ( <i>Distributors</i> )	As soon as known, promptly in time frames of <i>outage</i> management	IOMS, Outage form	“Market Manual 7: System Operations. Part 7.3 Outage Management”.	5	3.5.1.2  3.7.1.2

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
30.	<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 soon as known, promptly	By telephone to <i>IESO</i> Shift Operating Staff	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures" (Section 3.3.4, 3.4.4)	5	3.7.1.3
31.	<i>Market participants</i>	Confirm <i>planned outage</i> in order to obtain <i>IESO</i> approval of <i>outage</i> ; provide time required to return <i>facilities</i> or equipment to service  Notice and request of extension to originally approved <i>planned outage</i>	Before 10:00 am EST on third <i>business day</i> prior to planned <i>outage</i> date  As soon as possible	By telephone call, IOMS, Outage Form	"Market Manual 7: System Operations. Part 7.3 Outage Management"	5	6.4.1  6.4.7
32.	<i>Market participants</i>	Information and reports to facilitate preparation of disturbance report by <i>IESO</i> for <i>standards authority</i>	Within 48 hours and follow-ups as required	Initially by telephone Hard or electronic copy to IRCP at <i>IESO</i> . <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures"	5	14.1.5
33.	<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 soon as possible after occurrence	By telephone to <i>IESO</i> Shift Operating Staff	"Market Manual 7: System Operations. Part 7.1: System Operating Procedures" Section 3.4.2	5	10.4.2  10.4.4

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
34.	<i>Transmitters and Distributors</i>	Annual total forecast peak demand by connection point Annual total forecast peak demand that can be disconnected within various time scales, by connection point	Annual, by week 24 of calendar year	Hard or electronic copy to IRCP at IESO. <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	“Market Manual 7: System Operations. Part 7.3: Outage Management” Sections 1.3.7, 1.3.6, 1.3.8 “Market Manual 7: System Operations. Part 7.1: System Operating Procedures” (Sections 4.5 and 4.6) (The established procedures/principles in above documents and “Market Rules” Section 10.2, to be used as guidelines for submission)	5	10.2.5.3 10.2.5.4
35.	<i>Transmitter and Generators</i>	Outage plans for facilities forming part of the IESO-controlled grid Provide outage information for IESO to review	As frequently as necessary with reference to Market Rules Chapter 5, Sections 6.2.4.1 and 6.2.4.2	IOMS, Outage Form	“Market Manual 7: System Operations. Part 7.3 Outage Management”	5	6.2.4 6.5.1
36.	<i>Market participants</i>	Schedule of all planned outages, regardless of duration	No later than 33 calendar days prior to a planned outage	IOMS, Outage Form	“Market Manual 7: System Operations. Part 7.3: Outage Management”	5	6.3.1

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
37.	<i>Market participants</i>	Data for <i>IESO Ontario Reliability Outlook</i> assessment report; refer to reference document for specific data requirements	Annually; refer to reference document for schedule	Electronic copy to <i>IESO</i> at: <a href="mailto:Forecasts.Assessments@ieso.ca">Forecasts.Assessments@ieso.ca</a>	"Market Manual 2: Market Administration. Part 2.8: "Market Manual 2. Part 2.8: Reliability Assessments Information Requirements"	5	7.5 and 7.2
38.	<i>Market participants</i>	Data for <i>IESO 18 month</i> assessment report; refer to reference document for specific data requirements	Quarterly, refer to reference document for schedule	Electronic copy to <i>IESO</i> at: <a href="mailto:Forecasts.Assessments@ieso.ca">Forecasts.Assessments@ieso.ca</a> (Email (preferred), or conventional mail, file transfer or fax)	"Market Manual 2: Market Administration. Part 2.11: 18-Month Outlook and Related Information Requirements"	5	7.2 and 7.5
39.	<i>Generators with energy limited resources</i>	Data for <i>IESO 34 day adequacy</i> assessments: refer to reference document for specific data requirements	Weekly	Electronic copy to <i>IESO</i> via Online <i>IESO</i>	"Market Manual 7: System Operations. Part 7.2: Near-Term Assessments and Reports"	5	7.2 and 7.5
40.	<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 $\geq 20$ MW <i>Planned outage</i> closure, test or similar event for next 4 <i>trading weeks</i> of a <i>facility</i> specifically designated by the <i>IESO</i>	By 2:00 p.m. on last <i>trading day</i> of every second <i>trading week</i>	IOMS, Outage Form	"Market Manual 7: System Operations. Part 7.3: Outage Management". (Section 1.3)	5	3.5.1.5

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
41.	<i>Market participants</i>	Data required to satisfy request by <i>standards authority</i>	As required: pursuant to the established procedure and submission due dates	Hard or electronic copy to IRCP team at IESO. <a href="mailto:IRCP@ieso.ca">IRCP@ieso.ca</a>	"Market Manual 11: Reliability Compliance. Part 11.2: <i>Ontario Reliability Compliance Program</i> "	5	14.1.4
42.	<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 <i>Market Rules Chapter 7, Section 3.9</i>	Real Time Network, IOMS and Facility Registration, as applicable	"Market Manual 4: Market Operations. Part 4.2 Submission of <i>Dispatch Data</i> in the <i>Real-Time Energy and Operating Reserve Markets</i> " Appendix 7.4 of " <i>Market Rules</i> " (Chapter 7)	7	3.9
43.	<i>Market Participants (dispatchable generation facilities)</i>	Spare Generation on-line – start time, minimum run time, minimum load level	Hourly basis	MPI (Market Participant Interface) / Dispatch Workstation	"Market Manual 4; Market Operations. Parts 4.2, 4.3"	7	2.2B, 5.7, 6.3A
44.	<i>Market Participants</i>	Replacement <i>Energy</i> to support <i>planned outages (boundary entity, time period, amount etc)</i>	As required	MPI (Market Participant Interface) / Dispatch Workstation, IOMS	"Market Manual 7: System Operations. Part 7.3: Outage Management"	5	6.3.6 - 6.3.10
45.	<i>Market Participants</i>	RMR ( <i>Reliability Must Run</i> ) amounts, locations, time etc	As soon as possible	Telephone, electronic copy	"Market Manual 7: System Operations. Part 7.3: Outage Management"	5	4.8

Item No.	Information From	Information Description	Frequency; Timing	Means of Provision	Reference Document	Market Rules Reference	
						Chapter	Section
46.	<i>Market Participants</i>	Information regarding market operations to assist the <i>IESO</i> in analyzing the suspension	Immediately prior to and during the suspension period	Telephone By electronic or hard copy to Manager, Shifts Operation at <i>IESO</i>	“Market Manual 4: Market Operations Part 4.5: Market Suspension and Resumption” (Table 3-2)	7	13.7.2
47.	<i>Market Participants</i>	Information and <i>Request for Segregation</i> for approval to operate its <i>registered facility</i> in a <i>segregated mode of operation</i>	Within the time required, as mentioned in <i>Market Rules</i> Chapter 7, Appendix 7.7, Section 1.3	IOMS, Outage Form, Telephone Call	“Market Manual 7: System Operations. Part 7.3: Outage Management”. (Section 1.3)	7, Appendix 7.7	1.3
48.	<i>Market Participants</i>	Information/communications during <i>Planned Outage</i>	As and when required	Telephone Call, IOMS, Outage Form		5	6.1.7

– End of Section –

## References

Document Name	Document ID
Market Rules	MDP_RUL_0002
NERC Standards	
NPCC Criteria	
Reliability Assessments and Regional/Interregional Studies	
Market Manual 1.1: Participant Authorization, Maintenance and Exit	MDP_PRO_0014
Market Manual 1.2: Facility Registration, Maintenance and De-registration.	MDP_PRO_0016
Market Manual 2.8: Reliability Assessments Information Requirements	MDP_PRO_0024
Market Manual 2.10: Connection Assessment and Approval	MDP_PRO_0048
Market Manual 2.11: 18-Month Outlook and Related Information Requirements	IMP_PRO_0024
Market Manual 4.2: Submission of <i>Dispatch Data</i> in the Real-Time <i>Energy</i> and <i>Operating Reserve</i> Markets	MDP_PRO_0027
Market Manual 4.3 Real-Time Scheduling of the Physical Markets	IMP_PRO_0034
Market Manual 4.5: Market Suspension and Resumption	MDP_PRO_0030
Market Manual 7.0: System Operations Overview	IMP_MAN_0012
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