

## Market Rule Amendment Proposal Form

### Part 1 - Market Rule Information

Identification No.:	MR-00451-R00
Subject:	Market Renewal Program: Facility Registration
Title:	Facility Registration
Nature of Proposal:	<input checked="" type="checkbox"/> Alteration <input checked="" type="checkbox"/> Deletion <input checked="" type="checkbox"/> Addition
Chapter:	7
Appendix:	
Sections:	1.1, 2.1, 2.2, 2.2A, 2.2B, 2.2C, 2.3
Sub-sections proposed for amending:	1.1.1, 1.1.1.1 [new], 1.1.1.2 [new], 1.1.1.3 [new], 1.1.1.4 [new], 1.2.1.3, 1.2.3, 1.2.4 [new], 2.1.1, 2.1.1.1, 2.1.1.2, 2.1.1.3, 2.1.1.4 [new], 2.1.1.5 [new], 2.1.1.6 [new], 2.1.2, 2.1.2.1, 2.1.2.2, 2.1.2.3, 2.1.3, 2.2, 2.2.1, 2.2.2, 2.2.3, 2.2.3.1, 2.2.3.3, 2.2.3.4, 2.2.3.5, 2.2.3.6, 2.2.3.7, 2.2.3C [new], 2.2.4, 2.2.5, 2.2.6, 2.2.6.1, 2.2.6.2, 2.2.6.4, 2.2.6.5, 2.2.6.7, 2.2.6.8, 2.2.6.10, 2.2.6A, 2.2.6A.1 [new], 2.2.6A.2 [new], 2.2.6A.3 [new], 2.2.6A.4 [new], 2.2.6B, 2.2.6D, 2.2.6E, 2.2.6F, 2.2.6G, 2.2.6G.1 [new], 2.2.6G.2 [new], 2.2.6H, 2.2.6H.1 [new], 2.2.6H.2 [new], 2.2.6I, 2.2.6J [deleted], 2.2.6K, 2.2.7, 2.2.7.2, 2.2.7.4, 2.2.7.5, 2.2.8, 2.2.8.2, 2.2.9, 2.2.9.1, 2.2.9.3, 2.2.11, 2.2.12, 2.2.14, 2.2.15, 2.2.16, 2.2.17, 2.2.18, 2.2.19, 2.2.21, 2.2.22, 2.2.25 [new], 2.2.25.1 [new], 2.2.25.2 [new], 2.2.25.3 [new], 2.2.26 [new], 2.2.27 [new], 2.2A.1, 2.2A.3, 2.2B 2.2C, 2.3, 2.3.1, 2.3.1.1, 2.3.1.2, 2.3.2, 2.3.2.1, 2.3.2.2, 2.3.2.2c, 2.3.2.3, 2.3.2.3 a-d, 2.3.2.4, 2.3.2.5, 2.3.2.6, 2.3.2A, 2.3.3, 2.3.4, 2.3.5.

### Part 2 - Proposal History

Version	Reason for Issuing	Version Date
1.0	Draft for Stakeholder Review	October 13, 2020
2.0	Draft for Stakeholder Review	December 4, 2020

Version	Reason for Issuing	Version Date
3.0	Draft for Technical Panel Review	March 9, 2021

Approved Amendment Publication Date:

Approved Amendment Effective Date:

### Part 3 - Explanation for Proposed Amendment

Provide a brief description of the following:

- The reason for the proposed amendment and the impact on the *IESO-administered markets* if the amendment is not made.
- Alternative solutions considered.
- The proposed amendment, how the amendment addresses the above reason and impact of the proposed amendment on the *IESO-administered markets*.

#### Summary

The IESO proposes to amend the market rules to specify the requirements for market participants to register load resources, generation resources and for using boundary entity resources for physical transactions in the day-ahead market and real-time market. The proposed rule amendments include the following:

1. Expand the scope of the registration requirements for physical operations to include participation in day-ahead market physical transactions;
2. Add new registration requirements on market participants to support the establishment of reference levels and reference quantities for market power mitigation, and to disclose to the IESO market control entities for applicable resources;
3. Specify the IESO's right to reject submitted registration information that does not conform with technical capabilities;
4. Add new optional and mandatory resource-specific information for hydroelectric and non-quick start resources;
5. Amend other miscellaneous provisions related to daily generator data and pseudo-units;
6. Add timing requirements for wholesale consumers to changes between load resource types (between non-dispatchable, dispatchable and price responsive load);
7. Delete and relocate eligibility related sections related to the real-time and day-ahead cost guarantees; and
8. Clarify rules related to aggregation of resources.

In addition to the Market Renewal Program (MRP) related changes noted above, the IESO proposes to further amend the registration related market rules as follows:

9. Modify market rules to align with updated Chapter 11 defined terms which include the addition and implementation of a new term for “resource”;
10. Modify market rules to better align with internal business processes; and
11. Correct miscellaneous grammatical errors and missing italicization.

This proposal is based on input from various stakeholder engagement initiatives for the MRP.

Further information on MRP can be found on the [IESO’s Market Renewal website](#).

## Background

In its mission to enhance the efficiency of Ontario’s electricity markets, the IESO initiated the MRP with the following three initiatives for the energy work stream:

- Replace the two-schedule market with a single schedule market (SSM) to address current misalignments between price and dispatch and to better reflect the true cost of dispatching resources.
- Introduce a day-ahead market (DAM) to provide greater operational certainty to the IESO and greater financial certainty to market participants, ensuring more efficient scheduling of resources to meet anticipated system needs.
- Reduce the cost of scheduling resources to meet demand as it changes from the day-ahead to real-time through the enhanced real-time unit commitment (ERUC) initiative.

This redesign will address inefficiencies in the current market, implement best practices that have emerged over the past decade and prepare the IESO to more effectively manage future change. In the end, MRP will deliver a more efficient, stable marketplace with competitive and transparent mechanisms that meet Ontario’s electricity needs at the lowest cost possible.

## Discussion

The following amendments to the existing market rules in Chapter 7 regarding facility registration are proposed:

1. Expand the Scope of the Registration Requirements - Include Day-Ahead Market Physical Transactions
  - Amend sections 1.1.1, 1.1.1.1 (new), 1.1.1.2 (new) and 1.1.1.4 (new) to specify that Chapter 7 governs the registration of facilities and any associated resource, use of boundary entity resources, and the market-clearing and pricing process inclusive of the real-time market, pre-dispatch physical operations and day-ahead market physical transactions. In addition, a new section number has been added to the list for the existing reference to the “real-time operations of the electricity system”;
  - Add section 1.2.4 to include the day-ahead market to clarify that the specified sections within Chapter 7 apply to physical transactions in both the real-time markets and the day-ahead markets;

- Amend the title of section 2 from “Registration for Physical Operations” to “Registration for Physical Operations in the Day-ahead and Real-Time Markets”;
  - Amend section 2.1.1 to expand the scope of the application of the market participant requirements for operating on the IESO-controlled grid to include participation in day-ahead market physical transactions.
2. New Registration Requirements - Reference Levels, Reference Quantities, Market Control Entities
- Add new section 2.1.1.4 to specify new registration requirements to have the person provide materials required to support the IESO with registering reference levels and reference quantities for the person’s eligible resources in accordance with Appendix 7.8 – Market Power Mitigation;
  - Add new section 2.1.1.5 to specify that a person registering a generation resource, price responsive load, or dispatchable load must provide market control entity information during the facility registration process in order for market participants to participate in physical transactions;
  - Add new section 2.1.1.6 to specify that a person registering a dispatchable generation resource or dispatchable load resource must designate the market control entity for physical withholding for each of its resources as part of the registration process.
3. IESO Discretion to Reject Registration Information
- Add new section 2.2.3C to specify that the IESO has the discretion to reject registration information if the IESO determines that the facility specific or resource-specific information submitted by a market participant does not conform to the technical capabilities of the facility or any associated resources.
4. Hydroelectric and Non-Quick Start Resources – Optional and Mandatory Information
- (i) Hydroelectric Resources - optional resource-specific information
- Amend section 2.2.6A to specify that a market participant for a hydroelectric generation resource may submit, with supporting documentation as requested by the IESO, the following resource specific information as applicable:
    - Delete the existing option for hydroelectric resources to provide period of steady operation.
    - Add new section 2.2.6A.1 for the existing option for hydroelectric resources to provide forbidden regions. The existing market rule requirement that obligates a registered market participant to respect such information when submitting dispatch data is deleted, since forbidden region dispatch data submitted outside of the registered ranges will be automatically rejected for the applicable resource;
    - Add new section 2.2.6A.2 for a new option for hydroelectric resources to provide a start indication value. This market rule specifies that a registered market participant who chooses to submit this value must provide one or more MW values for each resource that is associated with the dispatchable hydroelectric generation resource. “Start indication value” is a newly defined term in MR-00461-R00;

- Add new section 2.2.6A.3 for a new option for hydroelectric resources to provide its intention to submit its hourly must run values. "Hourly must run" is a newly defined term in MR-00461-R00.
  - Add new section 2.2.6A.4 for a new option for hydroelectric resources to provide their corresponding shared daily energy limits (DEL). "Shared daily energy limit" is a newly defined term in MR-00461-R00.
- (ii) Hydroelectric and Non-Quick Start Resources - Mandatory information
- Amend section 2.2.6H to remove the word "hydroelectric" as this section will specify mandatory requirements for hydroelectric resources per section 2.2.6H.1 – "time lag" and non-quick start resources per section 2.2.6H.2 – "period of steady operation." Both terms are newly defined in MR-00461-R00;
  - Section 2.2.6H is also modified to remove the daily cascading hydroelectric dependency;
5. Other Miscellaneous Amendments Related to Daily Generator Data and Pseudo-Units
- Amend section 2.2.6F to specify that the existing IESO obligation to respect data submitted in accordance with sections 2.2.6A (optional facility specific information for hydroelectric generation facilities), 2.2.6B (mandatory requirements for dispatchable generation resources), or 2.2.6G (combined cycle facilities) is in reference to the determination of the day-ahead schedule, pre-dispatch schedule, and real-time schedule. Delete cross reference to section 2.2.6J - the daily dispatch data parameters for hydroelectric generation resources and non-quick start generation resources will be set forth in section 3 of chapter 7;
  - Amend section 2.2.6G to specify that registered market participants that wish to designate their non-aggregated combined cycle facility as a pseudo-unit must submit the required data in the day-ahead market, pre-dispatch scheduling and real-time market as a pseudo-unit resource type and not a generation resource type. Section 2.2.6G.1 obligates the combined cycle facility to submit a mandatory input for the steam turbine minimum loading point for each resource. Section 2.2.6G.2 obligates registered market participants who designate resources as a pseudo-unit in their non-aggregated combined cycle facility to submit the required data for that pseudo-unit, which includes mandatory inputs of the steam turbine percentage share and duct firing 10-minute operating reserve capability. "Steam turbine percentage share" and "duct firing 10-minute operating reserve capability" are newly defined terms in MR-00461-R00;
  - Amend section 2.2.6I by deleting the cross reference to section 2.2.6J and replacing it with a new cross reference required for pseudo-unit daily dispatch data parameters in section 3 of chapter 7.
6. Load Resources – Changes to Bid/Offer Type
- Add new section 2.2.25 to specify that a load resource may request to change the classification of its load resource as either a dispatchable load, non-dispatchable load or price responsive load in accordance with the following timelines:
    - from a non-dispatchable load to a dispatchable load - at least 6 months prior to the effective date of the change;
    - from a non-dispatchable load to a price responsive load - at least one month prior to the effective date of the change; and

- from a dispatchable load or a price responsive load to a non-dispatchable load - at least seven business days prior to the effective date of the change.
  - Add new section 2.2.26 to specify the minimum duration between a change of classification from a non-dispatchable load, back to a dispatchable load or a price responsive load, of 12 months from the effective date of the last change.
7. Delete and Relocate Real-Time and Day-Ahead Cost Guarantee Eligibility Sections
- Add new section 2.2.27 to direct market participants to chapter 9 for details related to required information submitted as part of the registration process that would make a generation resource eligible for the real time or day-ahead generator offer guarantee.
  - Delete section 2.2B Generation Facility Eligibility for the Real-Time Generation Cost Guarantee. These sections are to be replaced by the Real-Time Generator Offer Guarantee, and will be codified in Chapter 9 of the market rules.
  - Delete section 2.2C Generation Facility Eligibility for the Day-Ahead Production Cost Guarantee. This section is to be replaced by the Day-Ahead Generator Offer Guarantee, and will be codified in Chapter 9 of the market rules.
8. Aggregated Resources
- Amend section 2.3 to clarify that aggregation occurs at the resource level. For resources to aggregate, each resource should represent a generation unit or a load. Only resources of the same type (i.e. generation unit or load) can be aggregated. The title of section 2.3 is updated from “aggregated registered facilities” to “aggregated generation units or loads as resources” to provide further clarity.
  - Amend sections 2.3.1, 2.3.1.1, and 2.3.1.2 to specify that the aggregation and treatment of resources as a single resource will apply uniformly to participation in physical transactions in the day-ahead market and the real-time market (section 2.3.1), and that the aggregation for a resource must be the same across all timeframes (day-ahead, pre-dispatch, real-time).
9. Alignment with updated Chapter 11 Defined Terms
- MR-00461-R00 – Batch 1 – Market Entry and Prudential Support Market Rules Definitions introduce amendments to the definitions in Chapter 11 of the market rules.
- Sections 1 and 2 throughout:
- replacement of the term “registered facility” or “facility” with “resource” or “any/an associated resource”;
  - replacement of the term “boundary entity” with “boundary entity resource” or “boundary entity and its associated boundary entity resource.”
10. Amendments to Better Align With Internal Business Processes
- Amend various sections under sections 2.2, 2.3 to remove the word “applying” within the concept of “applying market participants.” This change is in alignment with IESO business processes whereby persons that have completed the authorization process are already market participants, who must complete the facility registration process specified in section 2 of chapter 7 of the market rules.
11. Miscellaneous

- Amend sections 2.2.9.1 and 2.2.9.2 to further clarify that the use of name plate refers to equipment.
- Amend sections 2.1, 2.2, 2.3 various spelling and grammatical errors.

## Part 4 - Proposed Amendment

### Chapter 7

#### 1. Introductory Rules

##### 1.1 Purpose

1.1.1 This Chapter sets forth rules governing the

1.1.1.1 registration of *facilities* and any associated *resources*;

1.1.1.2 use of *boundary entities* and *boundary entities resources*;

1.1.1.3 real-time operations of the *electricity system*, and

1.1.1.4 ~~the~~ market-clearing and pricing process in the *real-time market and pre-dispatch physical operations and day-ahead market physical transactions* ~~physical markets~~.

##### 1.2 Application

1.2.1 The rules in this Chapter apply to:

1.2.1.1 the *IESO*;

1.2.1.2 any person who causes or permits electricity or any *physical service* to be conveyed into, through or out of the *integrated power system*;

1.2.1.3 any *registered market participant* that submits *dispatch data* with respect to any ~~*resource*~~*registered facility*; and

1.2.1.4 *transmitters*.

1.2.2 [Intentionally left blank – section deleted]

1.2.3 In this Chapter, a reference to the term “area” in the context of *operating reserve* shall be construed as a reference to a portion of the *IESO control area* designated as such by the *IESO* and within which the *IESO* may impose limits on the amount of *ten-minute operating reserve* that can be scheduled from ~~*resources*~~*registered facilities* located within that portion for the purpose of meeting the total requirement for *ten-minute operating reserve* within the *IESO control area*.

1.2.4 Sections 1 and 2 of Chapter 7 apply to *physical transactions* in the *real-time market* and

day-ahead market.

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2. Registration for Physical Operations in the Day-Ahead and Real-Time Market

2.1 Requirements for Operating on the Grid

2.1.1 No person shall conduct physical transactions in the day-ahead market or participate in the *real-time markets* or cause or permit electricity or any *physical service* to be conveyed into, through or out of the *integrated power system* unless:

2.1.1.1 that person is ~~authorised~~authorized to be a *market participant* in accordance with Chapter 2;

2.1.1.2 the *facility* to or from which the electricity or *physical service* is to be so conveyed or the *boundary entity* to which the electricity or *physical service* relates has either been registered by the *IESO* as a ~~registered facility~~resource pursuant to section 2.2 or section 2.2A, as the case may be, or is exempt from registration under section 2.1.3; ~~and~~

2.1.1.3 subject to section 2.1.1A, where such ~~registered facility~~resource associated with is a *generation facility* that is connected electrically to a neighbouring *control area*, and the electricity or *physical service* is to be conveyed out of the *integrated power system* over a *radial intertie*:

a. the person complies with the requirements of Appendix 7.7;

b. the person has entered into a *connection agreement*;

c. the *IESO* has entered into an *interconnection agreement* with the *control area operator*, *security coordinator* or *interconnected transmitter* for the relevant *radial intertie*; and

d. the *interconnection agreement* referred to in section 2.1.1.3(c) supports the implementation of the requirements of Appendix 7.7;

2.1.1.4 in accordance with Appendix 7.8, that person has provided to the IESO all materials the IESO may require to determine reference levels and reference quantities for that person's resources and the IESO has registered all applicable reference levels and reference quantities for that person's resources;

2.1.1.5 that person has disclosed to the IESO, all of their market control entities for each of its resources that is a:

a. generation resource;



b. price responsive load; or

c. dispatchable load; and

2.1.1.6 that person has designated the market control entity for physical withholding in accordance with Appendix 7.8 for each of its resources that is a dispatchable generation resource or a dispatchable load.

2.1.1A Section 2.1.1.3 shall not apply in respect of:

2.1.1A.1 the delivery of electricity or a *physical service* out of the *integrated power system* over a *radial intertie* where such delivery is required to provide support in the case of an *emergency* in a *control area*;

2.1.1A.2 the delivery of electricity or a *physical service* out of the *integrated power system* over a *radial intertie* where such delivery is required to provide support in the case of an *outage* in a *control area*; or

2.1.1A.3 the delivery of electricity or a *physical service* out of the *integrated power system* over an *intertie* that is configured as a *radial intertie* following and as a result of a *contingency event*.

2.1.2 A *market participant* shall not submit, and the *IESO* shall not accept, any *dispatch data* with respect to a ~~facility or resource~~, including a boundary entity resource, unless:

2.1.2.1 that ~~facility or resource, boundary entity~~ has been registered is a registered facility for the provision of the *physical service(s)* to which the *dispatch data* relate, or, in the case of a ~~boundary entity resource~~, the *IESO* has authorized the *market participant* to use it for the provision of the *physical service(s)* to which the *dispatch data* relate;

2.1.2.2 that *market participant* is the *registered market participant* for that ~~registered facility resource~~; and

2.1.2.3 the *dispatch data* are consistent with: (i) the registration information defining the capabilities of the ~~registered facility resource~~; (ii) the *market participant's* reasonable expectations of the current actual capabilities of the ~~registered facility resource~~; and (iii) any revision in registration information requested by the *IESO* under section 7.5.6.2 or other provision of these *market rules*.

2.1.3 Subject to sections 2.3 and 10.2.6, no person that intends to participate in the *IESO-administered markets* or to cause or permit *electricity* or any *physical service* to be conveyed into, through or out of the *integrated power system* shall be required to register ~~the a~~ *facility* to or from which the *electricity* or *physical service* is to be so conveyed as a ~~registered facility~~ and any associated resources registered with the IESO if such *facility* is embedded within a *distribution system*, a *load facility*, a *generation*

*facility* or an *electricity storage facility* and that:

- 2.1.3.1 in the case of a *generation facility*, has a maximum rated *generation capacity*, net of auxiliary requirements, of less than 1 MW;
- 2.1.3.2 in the case of a *load facility*, has a maximum load capacity of less than 1 MW;
- 2.1.3.3 in the case of a *distribution system*, has a maximum load capacity of less than 1 MW or;
- 2.1.3.4 in the case of an *electricity storage facility*, has a maximum capacity for *energy* for each of injections and withdrawals, net of auxiliary requirements, of less than 1 MW.

## 2.2 ~~Registered Facilities and Associated Resources Registration~~

2.2.1 The *IESO* shall establish a process for registering a *facility* ~~and any associated resources~~ or ~~for using a boundary entity resources a registered facility~~ and for registering a *market participant* as a *registered market participant*. Such process shall include, but not be limited to, the certifications referred to in sections 2.2.3.3 and 2.2.3.4 and the testing and inspection referred to in section 2.2.3.5.

2.2.1A [Intentionally left blank – section deleted]

2.2.2 A *market participant* may ~~apply request~~ to register a *facility* ~~or any associated resources~~ or ~~to use a boundary entity resources a registered facility~~:

2.2.2.1 for the delivery or withdrawal of specific *physical services* pursuant to the provisions of this section 2.2.

2.2.2.2 [Intentionally left blank – section deleted]

2.2.3 The *IESO* shall approve ~~an application request to register for registration of~~ a *facility* ~~and any associated resources~~ or ~~to use a boundary entity resource as a registered facility~~ if:

- 2.2.3.1 the ~~applying~~ *market participant* submits:
  - a. the registration information required by this section 2.2;
  - b. in the case of a *facility connected* to the *IESO-controlled grid*, a copy of the *connection agreement* pertaining to the *facility* and entered into with the applicable *transmitter*; and
  - c. in the case of a *generation facility*, an *electricity storage facility*, or a *dispatchable load facility* embedded within a *distribution system*, a copy of the *connection agreement* pertaining to the *facility* and entered into with the applicable *distributor*;

- 2.2.3.2 the *IESO* is satisfied on reasonable grounds that the *facility* is capable of operating as described in the registration information or as otherwise provided by the *market rules* in respect of the relevant *physical service*;
- 2.2.3.3 the **applying market participant** certifies to the *IESO* that all of the *facilities* and equipment to which its **application-request** for registration relates comply with all applicable technical requirements, other than those referred to in section 6.2 of Chapter 2, set forth in these *market rules* applicable to all *market participants*, the class of *market participant* of which the **applying market participant** forms part and the *IESO-administered market* in which the **applying market participant** wishes to participate;
- 2.2.3.4 the **applying market participant** certifies to the *IESO* that it has adequate qualified employees or other personnel and organizational and other arrangements that are sufficient to enable the **applying market participant** to perform all of the functions and obligations applicable to *market participants*, the class of *market participant* of which the **applying market participant** forms part and the *IESO-administered market* in which the **applying market participant** wishes to participate in respect of all of the *facilities*, **and** equipment **and any associated resources** to which its **application-request** for registration relates;
- 2.2.3.5 the **applying market participant** successfully completes such testing and permits such inspection as the *IESO* may require for the purposes of testing or inspecting whether all of the *facilities* and equipment to which its **application-request** for registration relates meet all applicable technical requirements, other than those referred to in section 6.2 of Chapter 2, set forth in these *market rules* applicable to all *market participants*, the class of *market participant* of which the **applying market participant** forms part and the *IESO-administered market* in which the **applying market participant** wishes to participate;
- 2.2.3.6 the **applying market participant** certifies to the *IESO* in writing that all of the *facilities* and equipment to which its **request application** for registration relates complies with the requirements identified in any applicable *preliminary assessment* or *system impact assessment* associated with that *market participant's facilities* or equipment; and
- 2.2.3.7 the **applying market participant** certifies to the *IESO* that all of the *facilities* **and**, equipment **and any associated resources** to which its **request application** for registration relates does not differ materially from the configuration or technical parameters that were used by the *IESO* as the basis for which it issued any applicable approvals for such new or modified *connection* in accordance with section 6.1.14 to 6.1.18 of Chapter 4, unless the applicable

*market participant* or *connection applicant* has obtained the approval of the *IESO* for the change in configuration or technical parameter in accordance with section 6.1.22 of Chapter 4;

2.2.3.8 [Intentionally left blank – section deleted]

2.2.3A [Intentionally left blank – section deleted]

2.2.3B [Intentionally left blank – section deleted]

2.2.3C The *IESO* may reject values submitted by a *market participant* in accordance with this section 2.2 if the *IESO* determines that the *facility*-specific or *resource*-specific information submitted does not conform to the technical capabilities of the *facility* or any associated *resources*.

2.2.4 The *market participant* designated in the registration information as the *market participant* ~~authorised~~authorized to submit *dispatch data* with respect to a ~~registered facility~~resource shall be the *registered market participant* for that ~~registered facility~~resource. The *registered market participant* designated for a ~~registered facility~~resource may not be changed without the prior approval of the *IESO*.

2.2.5 The *IESO* shall define the form and content of information, as further specified in the applicable *market manual*, required for registration as a ~~registered facility~~ with associated *resources* where applicable in accordance with this sections 2.2.6 to 2.2.8.

2.2.6 Where the *facility* sought to be registered is within the *IESO control area*, the information required for registration as a ~~registered facility~~ or as an associated *resource*, as the case may be, shall, subject to any lesser requirements that may be *published* by the *IESO* in respect of the information required for registration of a given class or size of *facility* or any associated *resource*, include, but not be limited to:

2.2.6.1 the identity of the owner and the operator of the *facility* and its associated *resources*,

2.2.6.2 the identity of the *market participant* ~~authorised~~authorized to submit *dispatch data* with respect to the ~~facility~~resource;

2.2.6.3 for a *connected facility*, information demonstrating that the *facility* has met the *connection* requirements set forth in Chapter 4;

2.2.6.4 information demonstrating that the *market participant* designated as the *registered market participant* for the *facility* and its associated *resources* has

the operational control necessary to assure delivery or withdrawal of the relevant *physical services* as described in the registration information;

- 2.2.6.5 for a *connected facility*, the location of the *facility* and the identity of the *primary RWM* that will measure the flow of *energy* between the *facility resource* and the *IESO-controlled grid*;
- 2.2.6.6 for a *facility* embedded within a *distribution system* or within a *connected facility* within the *IESO control area* that is *connected* to the *IESO-controlled grid*, the location of that *facility*, the identity of the *primary RWM(s)* through which *energy* will flow between that *facility* and the *IESO-controlled grid* and information demonstrating that *energy* can flow to and from the identified *primary RWM(s)* with allocations and loss factors specified in the registration information;
- 2.2.6.7 standing technical data defining the ability of the *facility and its associated resources* to deliver or withdraw each *physical service* for which registration is sought including, where relevant, the trade-off functions among *energy* and *operating reserves*;
- 2.2.6.8 for a *facility resource* that will be subject to the *IESO's dispatch instructions*, certification that the *facility resource* has a minimum rated *generation capacity*, net of auxiliary requirements, or a minimum *dispatchable load* capacity, of 1 MW, or for an *electricity storage facility* an ability to inject a minimum of 1 MW and withdraw a minimum of 1 MW. Individual *generation units or loads facilities or units* may be aggregated to meet this minimum capacity requirement if they meet the aggregation requirements of section 2.3; and
- 2.2.6.9 [Intentionally left blank – section deleted]
- 2.2.6.10 for *any resources associated with* a cogeneration facility or enhanced combined cycle facility choosing to be either a *dispatchable* or *self-scheduling generation facility resource*, and the *registered market participant* wishes the compliance bands used to determine whether or not the *facility resource* is in compliance with its *dispatch instructions* or its current schedule, information as outlined in the applicable *market manual* concerning the impact that the production or supply of the other forms of useful *energy* within the *facility* has on *energy* production. The *IESO* may audit this information, which is to be used to determine appropriate compliance bands as outlined in section 3.3.8, at any time.

2.2.6A A *registered market participant* for a *hydroelectric generation facility resource* may submit, with any supporting documentation that the *IESO* may request, the following

~~facility resource~~ specific information as applicable:

~~2.2.6A.1 forbidden regions; and period of steady operation.~~

~~2.2.6A.2 a start indication value. A registered market participant that elects to submit a start indication value shall provide one or more MW values for each resource that is associated with a dispatchable hydroelectric generation resource;~~

~~2.2.6A.3 whether it intends to submit hourly must run; and~~

~~2.2.6A.4 shared daily energy limits.~~

~~If the information regarding forbidden regions is submitted, the market participant shall respect such information when submitting dispatch data for the real-time market. If the dispatch data submitted does not respect such information the IESO shall reject the dispatch data submission for the affected resource and for the corresponding dispatch hour or dispatch hours and shall advise the submitting registered market participant accordingly.~~

2.2.6B A registered market participant for a dispatchable generation ~~facility resource~~ shall submit to the IESO the minimum loading point, the minimum generation block run-time, and the minimum run-time for the generation ~~facility resource~~ if the minimum loading point for the ~~facility resource~~ is greater than zero MW and if the minimum generation block run-time for the ~~facility resource~~ is greater than one hour.

2.2.6B.1 [Intentionally left blank – section deleted]

2.2.6B.2 [Intentionally left blank – section deleted]

2.2.6B.3 [Intentionally left blank – section deleted]

2.2.6C [Intentionally left blank – section deleted]

2.2.6D The IESO may request, and the registered market participant for a dispatchable generation ~~facility resource~~ or a dispatchable electricity storage facility shall submit to the IESO, the following information ~~for that generation facility~~:

2.2.6D.1 start-up time; and

2.2.6D.2 minimum shut-down time.

2.2.6E If no ~~resource facility~~ specific data is submitted to the IESO for ~~the a generation facility's resource's~~ minimum loading point, forbidden regions, or period of steady operation in accordance with sections 2.2.6A, and 2.2.6B, the IESO shall assign default values of zero for that data.

2.2.6F If ~~resource facility~~ specific data is submitted to the IESO in accordance with sections 2.2.6A, 2.2.6B, ~~or 2.2.6G or 2.2.6J~~ the IESO shall respect the data as submitted in its determination of the day-ahead schedule in accordance with Chapter 7A, the pre-



~~*dispatch schedule* in accordance with section 4B of Chapter 7, and the *real-time schedule* in accordance with section 4E of Chapter 76 and *day-ahead schedule* in accordance with section 5.~~

2.2.6G In accordance with the applicable *market manuals*, a *registered market participant* that operates a combined cycle facility that is not aggregated under section 2.3 shall submit to the *IESO*:

~~2.2.6G.1~~ the required data for ~~each *resource associated with*~~ that combined cycle facility, ~~including the *steam turbine minimum loading point*~~; and

~~2.2.6G.2~~ if the ~~*registered market participant intends*~~ to designate ~~any *resource associated with its*~~ non-aggregated combined cycle ~~*facility*~~ as a ~~*pseudo-unit*~~ in the ~~day-ahead commitment process set out in section 5.8 (i) the *day-ahead market* in accordance with section 3 of Chapter 7A; (ii) the *pre-dispatch scheduling* process in accordance with section 4A of Chapter 7; and (iii) the *real-time market* in accordance with section 4D of Chapter 7;~~ the required data for that ~~*pseudo-unit*~~: ~~including the *steam turbine percentage share* and *duct firing 10-minute operating reserve capability*~~.

2.2.6H A *registered market participant* for a ~~*dispatchable hydroelectric generation facility*~~*resource* shall submit to the *IESO* where applicable: ~~the *daily cascading hydroelectric dependency* for that *generation facility*~~.

~~2.2.6H.1~~ ~~*time lag*~~; and

~~2.2.6H.2~~ ~~*period of steady operation*~~;

2.2.6I Subject to section 2.2.6G, the *IESO* shall determine, in accordance with the applicable *market manual*, the ~~*pseudo-unit*~~ technical parameters based on the ~~*resource facility*~~ specific data submitted under section ~~32.2.6J~~.

2.2.6J ~~[Intentionally left blank – section deleted]~~ ~~A *registered market participant* for a *dispatchable generation facility* that is not a quick start facility may submit on a daily basis the *minimum loading point*, the *minimum generation block run-time*, the maximum number of starts per day and the *minimum generation block down-time*, and, for facilities designated as a *pseudo-unit* under section 2.2.6G, the *combustion turbine single cycle mode*, and the *IESO* shall use this data in the *day-ahead commitment process* set out in section 5.8.~~

2.2.6K A *registered market participant* for a ~~*dispatchable generation facility*~~*resource* shall submit to the *IESO* the ~~*elapsed time to dispatch*~~ for the ~~*generation facility*~~*resource*.

2.2.7 ~~Where *To register* use a *boundary entity* and its associated *boundary entity resources* is sought to be registered~~, a valid *interconnection agreement* over the relevant *interconnection* must have been entered into prior to the approval of the ~~*application request*~~. In addition, the information required ~~for registration of the~~ to use the

*boundary entity* ~~resources as a registered facility~~ shall include, but not be limited to:

- 2.2.7.1 identification of the *inertie RWM(s)* through which the *physical services* will be delivered to or withdrawn from the *IESO-controlled grid*, which shall determine the *inertie zone* within which the *boundary entity* is deemed to be located;
  - 2.2.7.2 information confirming that the *market participant* authorized to submit *dispatch data* with respect to the *boundary entity resource* holds all licences, permits or other authorizations that may be required to permit such *market participant* to deliver or withdraw the *physical services* to or from the *inertie zone* within which the *boundary entity resource* is deemed to be located;
  - 2.2.7.3 information demonstrating compliance with applicable requirements of all relevant *standards authorities* and completion of the necessary transmission service arrangements with affected *control areas*;
  - 2.2.7.4 the identity of the *market participant* authorized to submit *dispatch data* with respect to the *boundary entity resource*; and
  - 2.2.7.5 information defining the maximum quantities of each *physical service* that the *market participant* authorized to submit *dispatch data* in respect of the *boundary entity resource* is entitled to inject into or withdraw from the *IESO-controlled grid* in respect of the *boundary entity resource* including, where relevant, the trade-off functions among *energy* and *operating reserves*.
- 2.2.8 In addition to the information required by section 2.2.6 or 2.2.7, as the case may be, the registration information for a ~~facility resource or boundary entity~~ that will provide *operating reserves* shall include information in a form approved by the *IESO* demonstrating ~~in the case of a facility, the ability of the facility resource or, in the case of a boundary entity, the ability of the resources comprising the boundary entity,~~ to:
- 2.2.8.1 provide *energy* and *operating reserves* according to the trade-off functions described in, and with the response times indicated in, the registration information; and
  - 2.2.8.2 deliver, when the ~~facility resource or boundary entity~~ is called upon to do so by the *IESO*, *energy* at the specified rate (in MWh/hour or MW) in accordance with its *operating reserve offer* for at least one hour.
- 2.2.9 A *market participant* may apply request to register as a *self-scheduling generation*



*facility and any associated resources* any *generation facility*.

2.2.9.1 ~~that has with~~ a name-plate rating of *individual components of equipment that collectively adds up to* ~~of~~ 1 MW or more but *is* less than 10 MW;

2.2.9.2 that is a *commissioning generation facility* of any name-plate rating and that is sought to be registered pursuant to section 2.2A.1; or

2.2.9.3 that is a *cogeneration facility* or *enhanced combined cycle facility* ~~with that~~ *has* a name plate rating of *individual components of equipment that collectively adds up to* 10 MW or more provided that the *IESO* determines that there are no adverse impacts on the *reliable* operation of the *IESO-controlled grid* of the *facility* being registered as a *self-scheduling generation facility*.

2.2.9A Except as the *IESO* may authorize under section 21.3.2, a *market participant* may apply to register a *facility* as a *self-scheduling electricity storage facility* only if it:

2.2.9A.1 has an *electricity storage facility size* of 1 MW or more but less than 10 MW and meets the condition of section 2.1.3.4; or

2.2.9A.2 is a *commissioning electricity storage facility* of any capacity and that is sought to be registered pursuant to section 2.2D.

2.2.10 A self-scheduling generation facility may be registered:

- to provide *energy* and *reactive support service* and *voltage control service*; and
- as a *certified black start facility*.

2.2.11 The *IESO* shall approve an ~~an application request~~ for registration as a *self-scheduling generation facility and any associated resources* or a *self-scheduling electricity storage facility* if the information required by this section 2.2 is provided and the *IESO* determines that *self-scheduling* of the *facility and any associated resources* will not have a material adverse effect on power system *security*.

2.2.12 A *self-scheduling generation facility* or a *self-scheduling electricity storage facility* whose ~~request application~~ for *facility* registration has been approved by the *IESO* is a ~~registered facility with associated resources registered by the IESO~~.

2.2.13 A *market participant* may apply to register an *intermittent generator* if it has a name-plate rating of not less than 1 MW.

2.2.14 An *intermittent generator and any associated resources* may not be registered to provide any *physical service* other than *energy* and *reactive support service* and *voltage control service*.

2.2.15 The *IESO* shall approve an ~~an request application~~ for registration as an *intermittent generator* if the information required by this section 2.2 is provided and the *IESO*

determines that intermittent operation of the *facility* will not have a material adverse impact on power system *security*.

2.2.16 An *intermittent generator* whose ~~application request~~ for *facility* registration has been approved by the *IESO* is a ~~registered facility~~ with associated resources registered by the *IESO*.

2.2.17 For the purposes of this Chapter, a *distribution system connected to the IESO-controlled grid* must be a ~~registered facility~~ that is registered by the *IESO*.

2.2.18 The *IESO* shall develop procedures and requirements for registering a *distribution system* ~~as a registered facility~~. Such procedures shall include, but not be limited to, the certifications referred to in sections 2.2.3.3 and 2.2.3.4 and the testing and inspection referred to in section 2.2.3.5.

2.2.19 A *market participant* may ~~request apply~~ to register a *transitional scheduling generator* if it has a nameplate rating of not less than 1MW.

2.2.20 A *transitional scheduling generator* may be registered:

- to provide *energy* and *reactive support service* and *voltage control service* and
- as a *certified black start facility*.

2.2.21 The *IESO* shall approve an ~~application request~~ for registration as a *transitional scheduling generator* and its associated resources if the information required by this section 2.2 is provided, and the *generator* and its associated resources ~~are~~ under contract with *OEFC* and will participate in the day-ahead market and real-time market for *energy*.

2.2.22 A *transitional scheduling generator* whose ~~request application~~ for *facility* registration has been approved by the *IESO* is a ~~registered facility~~ with associated resources registered by the *IESO*.

2.2.23 Within one month of the coming into effect of the amendments to the contract with *OEFC* required as a result of electricity industry restructuring in Ontario in respect of a *transitional scheduling generator*, the *registered market participant* for the *transitional scheduling generator* shall change registration for the applicable *generation facility* to one of the other *generation facility* registrations.

2.2.24 [Intentionally left blank – section deleted]

2.2.25 A *market participant* for a *load resource* may request to change its classification as

either a *dispatchable load*, *non-dispatchable load*, or *price responsive load* as follows:

2.2.25.1 a request to change from a *non-dispatchable load* to a *dispatchable load* shall be submitted at least six months prior to the effective date of the change;

2.2.25.2 a request to change from a *non-dispatchable load* to a *price responsive load* shall be submitted at least one month prior to the effective date of the change; and

2.2.25.3 a request to change from a *dispatchable load* or *price responsive load* to a *non-dispatchable load* shall be submitted at least seven *business days* prior to the effective date of the change.

2.2.26 Once the change to a *non-dispatchable load* takes effect in accordance with subsection 2.2.25.3, the *market participant* shall not change its classification back to a *dispatchable load* or a *price responsive load* in accordance with subsections 2.2.25.1 or 2.2.25.2, as the case may be, for at least 12 months from the effective date of the change.

2.2.27 A *registered market participant* for a *generation resource* shall be eligible for the real-time generator offer guarantee or day-ahead generator offer guarantee if, as part of the registration process under this section 2.2, the *market participant* provides the *resource specific information* as further specified in Chapter 9.

## 2.2A Registration of Commissioning Generation Facilities

2.2A.1 A *market participant* may apply to register a *commissioning generation facility* as a *self-scheduling generation facility*, in accordance with section 2.2, for the purpose of being permitted to convey electricity or a *physical service* into, through or out of the *integrated power system* or of participating in the *real-time markets* during the period in which the *commissioning generation facility* is undergoing the commissioning tests referred to in section 2.2A.4.

2.2A.2 The *IESO* shall approve an application for *facility* registration of a *commissioning generation facility* as a *self-scheduling facility* if it is satisfied that the requirements of section 2.2 have been met. Any such registration shall expire upon completion by the *commissioning generation unit* of the final commissioning test submitted to and approved by the *IESO* pursuant to section 2.2A.4.

2.2A.3 Upon expiry of the registration referred to in section 2.2A.2, a *market participant* shall not participate in the *real-time markets* nor cause or permit electricity or any *physical service* to be conveyed into, through or out of the *integrated power system* in respect of a former *commissioning generation facility* unless such former *commissioning generation facility* has been registered as a *generation facility*, other than pursuant to this section 2.2A, in accordance with section 2.2.

2.2A.4 Where a *commissioning generation facility* has been registered by the *IESO* pursuant to section 2.2A.2, the *market participant* for that *commissioning generation facility* shall,

while such registration is in effect:

- 2.2A.4.1 ensure that the commissioning generation facility:
  - a. complies with all of the provisions of these *market rules* applicable to *self-scheduling generation facilities*; and
  - b. where it will seek to be registered, other than pursuant to this section 2.2A, in accordance with section 2.2 as other than a *self-scheduling generation facility*, complies with all of the applicable requirements of section 7.3 of Chapter 4; and
- 2.2A.4.2 submit to the *IESO*, for approval and in accordance with section 2.2A.5, information detailing the commissioning test plans for the *commissioning generation facility*.
- 2.2A.5 The detailed commissioning test plans, referred to in section 2.2A.4.2 shall be submitted to the *IESO* for approval and shall be scheduled in accordance with the procedures applicable to the *outage* coordination process described in section 6 of Chapter 5 and with any applicable *market manual* and shall include, but not be limited to:
  - 2.2A.5.1 the time required for the *commissioning generation facility* to synchronize to and de-synchronize from the *IESO-controlled grid*;
  - 2.2A.5.2 *energy* and reactive output levels;
  - 2.2A.5.3 the timing of and ramp rates associated with changes in *energy* and reactive output levels; and
  - 2.2A.5.4 run-back or trip tests for the *commissioning generation facility*.
- 2.2A.6 Except as otherwise provided in this section 2.2A, where a *commissioning generation facility* has been registered by the *IESO* pursuant to section 2.2A.2, the *IESO* shall, while such registration is in effect, treat the *commissioning generation facility* as a *self-scheduling generation facility* for all purposes under these *market rules* including, but not limited to, the submission of *dispatch data* and *settlement*.

2.2B [Intentionally left blank – section deleted] —~~Generation Facility Eligibility for the Real-~~

~~Time Generation Cost Guarantee~~

2.2B.1 ~~[Intentionally left blank – section deleted]~~

~~————— A registered market participant for a generation facility shall be eligible for the guarantee of certain elements of its costs, calculated in accordance with section 4.7B of Chapter 9, provided the following criteria are met:~~

2.2B.1.1 ~~[Intentionally left blank – section deleted]~~

~~————— the facility is not a quick start facility;~~

2.2B.1.2 ~~[Intentionally left blank – section deleted]~~

~~————— the facility is a dispatchable generation facility; and~~

2.2B.1.3 ~~[Intentionally left blank – section deleted]~~

~~————— [Intentionally left blank – section deleted];~~

2.2B.1.4 ~~[Intentionally left blank – section deleted]~~

~~————— the *registered market participant* has submitted to the *IESO* the following data for the *generation facility*, in accordance with the applicable *market manual*, and the *IESO* accepts the data as reasonable:~~

2.2B.1.4A ~~[Intentionally left blank – section deleted]~~

~~————— the minimum run time, minimum loading point, and minimum generation block run time;~~

2.2B.1.4B ~~[Intentionally left blank – section deleted]~~

~~————— the incremental fuel costs and incremental operating and maintenance costs determined in accordance with sections 2.2B.4, 2.2B.5 and 2.2B.6; and~~

2.2B.1.4C ~~[Intentionally left blank – section deleted]~~

~~————— any other data, as reasonably requested by the *IESO* that is relevant to determine eligible costs in accordance with section 2.2B.4, from the *registered market participant*, any *affiliate*, service provider or contractual counter party.~~

2.2B.2 ~~[Intentionally left blank – section deleted]~~

~~The *IESO* may, at any time, audit the data submitted in accordance with section 2.2B.1.4, and the *registered market participant* shall provide the requested audit information in the time and manner specified by the *IESO*. If, as a result of such an audit, the *IESO* determines that the audit information provided does not support the submitted data, including, without limitation, that the *IESO* does not accept the data as reasonable, the *IESO* shall recover any resulting over payments made to the *market participant*. Notwithstanding the foregoing sentence, where the *registered market participant* has~~

~~submitted data in accordance with this section 2.2B and sections 10A.1 and 11.2.1 of Chapter 1, the IESO shall not retroactively revise pre-approved cost values determined in accordance with section 2.2B.5 when calculating any amount to be recovered from that registered market participant.~~

2.2B.3 ~~[Intentionally left blank – section deleted]~~

~~For purposes of sections 2.2B.1.4 and 2.2B.2, the registered market participant shall retain supporting documentation related to cost submissions, including data that may be required by the IESO to determine pre-approved cost values and methodologies, in accordance with the applicable market manual, for a period of 7 years from the date when a cost is paid.~~

Submitted Eligible Costs

2.2B.4 ~~[Intentionally left blank – section deleted]~~

~~Submitted eligible costs pursuant to section 2.2B.1 shall be limited to:~~

2.2B.4.1 ~~incremental fuel costs, incremental operating and maintenance costs resulting from wear and tear caused by [Intentionally left blank – section deleted] the operation of a facility; and~~

2.2B.4.2 ~~[Intentionally left blank – section deleted]~~

~~all other incremental operating and maintenance costs as set out in section 4.7B.5.2 of Chapter 9;~~

~~from either the point of ignition or synchronization to the IESO-controlled grid as applicable, until the facility reaches its minimum loading point, where that facility has met the eligibility criteria specified in sections 2.2B.1, 5.7 and 6.3A, as specified and further detailed in the applicable market manual.~~

2.2B.5 ~~[Intentionally left blank – section deleted]~~

~~Subject to section 2.2B.6, for each cost specified in section 2.2B.4, the IESO shall determine pre-approved cost values and methodologies that are either universal or facility specific, and calculate the submitted eligible costs in accordance with section 4.7B.5 of Chapter 9. The pre-approved cost values and methodologies shall remain in effect until revised by the IESO. The IESO shall review the pre-approved cost values and methodologies at least once every 3 years. The first review shall be completed no~~

later than 3 years from the effective date of this section.

#### 2.2B.6 ~~[Intentionally left blank – section deleted]~~

~~In circumstances where pre-approved cost values and methodologies are not established under section 2.2B.5, the IESO may at its sole discretion allow a registered market participant to submit the incremental fuel costs and incremental operating and maintenance costs for each facility under section 2.2B.1.4B, in accordance with the applicable market manual.~~

#### 2.2C ~~[Intentionally left blank – section deleted]~~ Generation Facility Eligibility for the Day-Ahead Production Cost Guarantee

##### 2.2C.1 ~~[Intentionally left blank – section deleted]~~

~~————— A registered market participant for a generation facility shall be eligible for the guarantee of certain elements of the facility's costs, calculated in accordance with section 4.7D of Chapter 9, provided the following criteria are met:~~

##### 2.2C.1.1 ~~[Intentionally left blank – section deleted]~~

~~————— the facility is not a quick-start facility;~~

##### 2.2C.1.2 ~~[Intentionally left blank – section deleted]~~

~~————— the facility is a dispatchable generation facility with a elapsed time to dispatch greater than one hour;~~

##### 2.2C.1.3 ~~[Intentionally left blank – section deleted];~~

##### 2.2C.1.4 ~~[Intentionally left blank – section deleted]~~

~~————— the registered market participant has, according to the timelines and in the form specified in the applicable market manual, submitted to the IESO the following information for the generation facility: the start-up costs; and the speed-no-load costs; and~~

##### 2.2C.1.5 ~~[Intentionally left blank – section deleted]~~

~~————— the registered market participant has, according to the timelines and in the form specified in the applicable market manual, submitted to the IESO the following information for the generation facility: the minimum loading point, and the minimum generation block-run time — and the IESO accepts all such information as reasonable.~~

##### 2.2C.2 ~~[Intentionally left blank – section deleted]~~

#### 2.3 ~~Registered Facilities~~ Aggregated ~~Registered Facilities~~ Generation Units or Loads as Resources

2.3.1 A market participant may ~~apply request~~ apply request to the IESO to aggregate several



~~facilities~~resources associated with either generation units or loads for one or more of the followingthe purposes: ~~of~~ (i) participating in the day-ahead market, or (ii) delivering or withdrawing one or more physical services in the real-time-energy market, or the procurement markets or both. Upon IESO approval, the aggregated facilities resources associated with either generation units or loads shall, except as specifically stated in the registration information or the IESO's approval of the aggregation, be treated as a single resource~~registered facility for the provision or withdrawal of the approved physical services.~~

2.3.1.1 ~~either for the provision or withdrawal of the approved physical services~~ by the *registered market participant* for purposes of the submission of *dispatch data*; and

2.3.1.2 by the IESO, for purposes of the scheduling and *dispatch* processes described in this Chapter and for the purposes of scheduling processes of the day-ahead market described in Chapter 7A.

2.3.1A [Intentionally left blank – section deleted]

2.3.1A.1 [Intentionally left blank – section deleted]

2.3.1A.2 [Intentionally left blank – section deleted]

2.3.2 The IESO shall approve a ~~request~~application for the aggregation of resources associated with either generation units or loads~~facilities~~ into a single registered facility~~resource~~ unless:

2.3.2.1 the registration information for the resources associated with either generation units or loads ~~facilities~~ proposed to be aggregated fails to satisfy the conditions of section 2.2;

2.3.2.2 the registration information fails to demonstrate one or more of the following in respect of the resources associated with either generation units or loads~~facilities~~ proposed to be aggregated;

a. that they are all located within the *IESO control area*;

b. subject to section 2.3.2A, that they are all *connected* to the *IESO-controlled grid* at the same *connection point*;

c. that ~~the resource is they are all~~ under the operational control of a single *market participant* and that such *market participant* is authorized to submit *dispatch data* for ~~it~~all of them;

d. that operational communication between each of them and the IESO meets all applicable standards and protocols; or

e. that they all have relevant metering systems to be used for *settlements* purposes that satisfy the requirements of Chapter 6; or



- 2.3.2.3 one or more of the *resources* associated with *generation units*, *electricity storage units* or *loads* facilities proposed to be aggregated is or includes a ~~resource-generating unit or a load facility~~:
- a. whose *offer* or *bid* information or whose in-service or out-of-service status affects the numerical value of operating *security limits* in any manner;
  - b. whose *offer* or *bid* information or whose in-service or out-of-service status is information required by the *IESO* for conducting detailed *security* and resource adequacy assessment;
  - c. whose *offer* or *bid* information or whose in-service or out-of-service status is information required to be submitted to the *market assessment unit* or the *market surveillance panel* in furtherance of their respective functions and obligations under the *Electricity Act, 1998*, the *Ontario Energy Board Act, 1998* and these *market rules*; or
  - d. whose *offer* or *bid* information; ~~or whose~~ in-service or out-of-service status or other information is required by *applicable law*, by ~~license~~ *licence*, by the *Ontario Energy Board* or by a *standards authority* to be submitted to or obtained by the *IESO*.

2.3.2.4 the ~~applying~~ *market participant* fails to provide the certification referred to in section 2.2.3.3 in respect of any of the *facilities*;

2.3.2.5 the ~~applying~~ *market participant* fails to provide the certification referred to in section 2.2.3.4 in respect of any of the *facilities*; or

2.3.2.6 the ~~applying~~ *market participant* fails to successfully complete the testing or to permit the inspection referred to in section 2.2.3.5 in respect of any of the *facilities*.

2.3.2A Notwithstanding section 2.3.2.2b, the *IESO* may approve an ~~an application request~~ for the aggregation of ~~resources associated with either generation units or loads~~ facilities into a single ~~registered facility~~ resource that are not all *connected* to the *IESO-controlled grid* at the same *connection point*, provided that, in the sole judgement of the *IESO*, they can be represented as a single point of injection or withdrawal without compromising the *reliability* of the *IESO-controlled grid*. Aggregation for the purposes of calculating *transmission service charges* is specified in the then current *Ontario Energy Board Transmission Rate Order*.

2.3.3 If a proposed aggregation of ~~resources~~ facilities meets one or more of the above

conditions, the *IESO*:

- 2.3.3.1 shall provide to the *market participant* whose application is denied the reasons for such denial.
- 2.3.3.2 [Intentionally left blank]
- 2.3.3.3 [Intentionally left blank]
- 2.3.4 Approval of the aggregation of *facilities-resources* shall be withdrawn by the *IESO* where, for any reason, one or more of the aggregation *facilities-resources* commences to meet any one or more of the conditions described in section 2.3.2. The *IESO* shall give notice of the withdrawal to the *market participant* authorized to submit *dispatch data* in respect of the aggregated *facilities-resources* and shall cease to treat those *facilities-resources* as a single *registered-facility-resource* as of the date and time specified in the notice for such purpose. The date and time so specified shall not be less than 2 days from the date and time at which the notice of withdrawal is given to the *market participant*. If the *market participant* subsequently wishes to thereafter re-aggregate the *resources-facilities*, it shall be required to re-apply to the *IESO* for approval of the aggregation in accordance with section 2.3.1.
- 2.3.5 A *market participant* authorized to submit *dispatch data* for aggregated *resources-facilities* may give notice to the *IESO* that it no longer wishes to aggregate those *resources-facilities*. The *IESO* shall acknowledge receipt of the *market participant's* notice and shall cease to treat those *resources-facilities* as a single *resource-registered-facility* as of the date and time specified in the acknowledgement of receipt for that purpose. The date and time so specified shall be as soon as reasonably practicable following the date of receipt by the *IESO* of the *market participant's* notice. If the *market participant* subsequently wishes to re-aggregate the *resources-facilities*, it shall be required to ~~re-apply~~ submit a new request to the *IESO* for approval of the aggregation in accordance with section 2.3.1.