

Market Rule Amendment Proposal Form

Part 1 - Market Rule Information

Identification No.:	MR-00468-R00
Subject:	Adjustments to Intertie Flow Limits
Title:	Adjustments to Intertie Flow Limits
Nature of Proposal:	<input checked="" type="checkbox"/> Alteration <input type="checkbox"/> Deletion <input type="checkbox"/> Addition
Chapter:	7
Appendix:	7.5
Sections:	Ch 7, Sections 4.4.4, 4.5.1 & App. 7.5
Sub-sections proposed for amending:	Ch 7, Sections 4.4.4.2, 4.5.1.1 & App. 7.5.1
Current Market Rules Baseline:	Baseline 45.1

Part 2 - Proposal History

Version	Reason for Issuing	Version Date
1.0	Issued for Technical Panel review	September 7, 2021
2.0	Draft for Technical Panel review and comment	February 8, 2022
3.0	Draft for Technical Panel review	July 5, 2022

Approved Amendment Publication Date:

Approved Amendment Effective Date:

Part 3 - Explanation for Proposed Amendment

Provide a brief description that includes some or all of the following points:

- 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 is proposing to add language to the market rules specifying when internal transmission constraints will be considered by the IESO in setting intertie flow limits.

Discussion

Chapter 7

Section 4.4.4.2

The IESO is proposing to add language to this section of the market rules that specifies that when the IESO has determined internal transmission constraints limit the ability to reliably transfer power to an intertie zone, the IESO may consider this in setting the intertie flow limits.

Section 4.5.1.1

A cross-reference is being added to this section of the market rules to clearly show the linkage to other associated sections of the market rules.

Appendix 7.5

Section 7.5.1

Language is being adjusted that scheduled flows can be both to and from *intertie zones* outside the *IESO control area*.

Part 4 - Proposed Amendment

Chapter 7

4.4.4 Limits on *intertie* flows between the *integrated power system* and neighbouring *transmission systems* shall be based on:

4.4.4.1 a simple model that assumes that each *intertie meter* is *connected* to an isolated *intertie zone* by a single transmission line;

4.4.4.2 the IESO's best estimate of the maximum flow on the single transmission line to each *intertie zone*, given the status of the neighbouring *transmission systems* and expected or actual unscheduled flows (including as unscheduled flows any flows planned by the *IESO* to balance interchange accounts with other *control area operators*). Where the IESO has determined that transmission constraints on the IESO-controlled grid or on the single transmission line connected to an intertie zone limit the flows of energy from the IESO-controlled grid to or from an intertie zone, the IESO's best estimate of the maximum flow

may include consideration of the amount of energy that can be moved or transferred reliably between that *inertie zone* and the *IESO-controlled grid*; and

4.4.4.3 a *net interchange schedule* limit to represent *the integrated power system's* ability to respond to hourly *interchange schedule* deviations and maintain the *reliability* of the *IESO-controlled grid*.

.....

4.5.1 The *dispatch algorithm* shall be used to determine both operating schedules that reflect the realities of the *integrated power system* and uniform prices within the *IESO control area* that ignore *transmission system* constraints. Thus, the *dispatch algorithm* shall be capable of using the following two different models for *the integrated power system*:

4.5.1.1 an *unconstrained IESO-controlled grid model*, which, other than as set out in Section 4.4.4 of Chapter 7 and Section 7.5.1 of Appendix 7.5, ignores transmission and other security constraints on the *IESO-controlled grid* and assumes, in effect, that all *physical services* are provided and consumed at a single, undesigned location *connected* to several isolated *inertie zones* by single transmission lines; and ...

Appendix 7.5

7.5.1 The only *security* constraints to be represented are the limits imposed on the flows of *energy* and on *operating reserve* scheduled to or from *inertie zones* outside the *IESO control area* as described in section 6.4.4.