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Applicability

- **1** Section 302.1 applies to:
 - (a) a market participant; and
 - (b) the **ISO**.

Requirements

Real Time Transmission Market Constraint Mitigation

2(1) The **ISO** must, subject to subsection 3, comply with the following procedures in the following sequence to mitigate a **transmission market constraint** in the present, real time:

- (a) taking into account the **constraint effective factors**, determine the **pool assets** that would be effective in mitigating the **transmission market constraint** and apply the appropriate procedure set out in this subsection 2(1) to those effective **pool assets**;
- (b) ensure that any **pool assets** effective in mitigating the **transmission market constraint** are not generating MW above their **maximum capability** by cancelling any related **directives**;
- (c) curtail by directives any downstream constraint side service under ISO tariff rate schedules Rate XOS 1 Hour, and Rate XOS 1 Month and any upstream constraint side service under ISO tariff rate schedule Rate IOS, that are effective in mitigating the transmission market constraint;
- (d) curtail by directives any loads receiving service under ISO tariff rate schedules Rate DOS 7 Minutes, Rate DOS 1 Hour, and Rate DOS Term at the downstream constraint side of the transmission market constraint, that are effective in mitigating the transmission market constraint;
- (e) issue a **dispatch** to any **pool asset** that is under contract with the **ISO** to provide **transmission must-run** and that is effective in mitigating the **transmission market constraint** at the **downstream constraint side**;
- (f) issue a **directive** for **transmission-must run** to any **pool asset** that is not under contract with the **ISO** to provide **transmission must-run** and that is effective in mitigating the **transmission market constraint** at the **downstream constraint side**;
- (g) issue **directives** to curtail any **pool assets** that are effective in mitigating the **transmission market constraint** at the **upstream constraint side** using the following additional procedures:
 - (i) the ISO must curtail using the energy market merit order with the highest priced offer that is in merit from the pool asset effective in mitigating the transmission market constraint being curtailed first, followed by the pool asset with the next highest priced offer that is in merit, if necessary, during the remainder of the then current settlement interval and the next 2 settlement intervals;
 - the ISO must, if there is a need to curtail 2 or more such pool assets having equally priced offers, issue directives to the pool assets to curtail using a pro-rata methodology; and

(iii) the ISO must, if the transmission market constraint persists on a continuous basis for longer than the remainder of the then current settlement interval and the next 2 settlement intervals, reallocate the required curtailment, using a pro-rata methodology, to all pool assets having in merit offers that are in merit that are effective in mitigating the transmission market constraint;

and

- (h) curtail by directives any loads receiving service under ISO tariff rate schedule Rate DTS at the downstream constraint side of the transmission market constraint, if so required by the reliability criteria, using the following procedures:
 - (i) the **ISO** must allocate the load curtailment using the energy market **merit order** with the lowest priced effective **bid** being curtailed first, followed by the next lowest priced effective **bid**, if necessary; and
 - (ii) the **ISO** must curtail using a pro-rata methodology, if there is a need to curtail loads with equal price **bids**, or there are no **bids** remaining.

(2) The **ISO** must comply with the following procedures in order to restore the energy balance to the **interconnected electric system**:

- (a) where the procedures set out in subsections 2(1)(e) or 2(1)(f) are used, issue dispatches for dispatch down service in accordance with Section 204.2 of the ISO rules, *Issuing Dispatches for Dispatch Down Service*; and
- (b) except where the procedures set out in subsection 2(1)(e) and 2(1)(f) are used:
 - (i) in circumstances where the ISO has notice of a transmission market constraint that is anticipated to be of a significant duration and magnitude, as determined by the ISO acting reasonably, issue a dispatch to any pool asset that is effective in restoring the energy balance to the interconnected electric system and that is under contract with the ISO to provide transmission must-run in accordance with Section 205.8 of the ISO rules, *Transmission Must-Run* and Section 301.2 of the ISO rules, *ISO Directives*, and issue dispatches for dispatch down service in accordance with Section 204.2 of the ISO rules, *Issuing Dispatches for Dispatch Down Service*; and
 - (ii) in all other circumstances, or where necessary to supplement the volume dispatched for transmission must-run in subsection 2(2)(b)(i), issue dispatches for transmission constraint rebalancing, in accordance with the energy market merit order, and make payment to a pool participant with a source asset that has provided energy for transmission constraint rebalancing in accordance with subsection 7(1) of Section 103.4 of the ISO rules, *Power Pool Financial Settlement.*

(3) The **ISO** must, with regard to any of the procedures set out in subsection 2(1) that involve **pool** asset or load curtailment, if the **pool asset** or load is supplying both **ancillary services** and energy production, first curtail **ancillary services** before energy production.

(4) The ISO must, when a transmission market constraint has activated or the ISO expects it to activate a remedial action scheme:

- (a) ensure that the **interconnected electric system** is operating in a safe and reliable mode; and then
- (b) recommence the procedural sequence set out in subsection 2(1) to manage the **transmission market constraint**.

Additional Real Time Constraint Management Procedures

3(1) The **ISO** may, as the circumstances warrant, take into account the following alternative or complementary procedures to mitigate any present, real time **transmission market constraint**:

- (a) the ISO may, by directive, curtail a pool asset to above or at the minimum stable generation level of that pool asset if the result of following the procedures set out in subsection 2(1)(g)(i) will be to curtail the pool asset below its minimum stable generation level but the ISO expects the transmission market constraint to last only a short duration; and
- (b) the ISO, acting reasonably, may in circumstances where abnormal operating or market conditions exist and in implementing mitigation measures to address a transmission market constraint, take procedural steps not listed in subsection 2(1) if those steps are substantially consistent with good electric industry practice and with the duties of the ISO under the Act to direct the safe, reliable and economic operation of the interconnected electric system;
 - the abnormal conditions referred to in subsection 3(b) include circumstances of unusual natural risks to the interconnected electric system, and issues raised by a unique real time system configuration or reliability concerns stemming from voltage or reactive power effects.

3(2) The **ISO** must follow the procedural sequence set out in subsection 2(1) in mitigating a **transmission market constraint**, and any more specific and complementary **ISO rules** applicable for a given regional area of the **interconnected electric system**, unless real time operating conditions change such that following the specified sequence would put the **ISO** in contravention of any **reliability standard** requirement by failing to achieve compliance within the operating limits or required response time specified in that **reliability standard**.

3(3) The **ISO** must, if the **ISO** alters the procedural sequence as set out in subsection 2(1), or takes alternate mitigating actions because of the circumstances referred to in subsection 3(1)(b) or 3(2) above, recommence the procedural sequence set out in subsection 2(1) once the **ISO** is assured that the **interconnected electric system** is operating in a safe and reliable mode.

Reporting

4(1) The **ISO** must use reasonable efforts to publish, as near to real time as possible, information on the location of **transmission market constraints** and the costs of resolving these **transmission market constraints**.

(2) The ISO must monitor and publicly report on the costs incurred as a result of mitigating transmission market constraints on an annual basis.

Revision History

Effective	Description
20xx-xx-xx	Revisions to reflect the replacement of "transmission constraint" with "transmission market constraint"; and administrative revisions to align with current AESO drafting principles.
2015-11-26	Revisions to subsections 2(1) and 2(2). Amendment to numbering references in subsection 3(a). Addition of subsection 4 "Reporting".
2013-01-08	Previously defined terms have been un-defined and the words have been un- bolded.

ISO Rules Part 300 System Reliability and Operations Division 302 Transmission Constraint Management Section 302.1 Real Time Transmission Market Constraint Management

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	Reference to section 6.3.6.3 <i>Determining Dispatch Down Service Dispatch Quantity</i> has been replaced with section 204.2 <i>Issuing Dispatches for Dispatch Down Service</i> .
2012-03-26	Initial release