

Comparison Between March 5, 2009 Proposed and May 26, 2009 Proposed:

ISO Rule 6.6 - Pool Participant Non-Compliance with Energy Market Dispatch and Directives

Please refer to the March 5, 2009, AESO letter for further history of the proposed changes:

http://www.aeso.ca/downloads/ISO_Rule_6.6-Clean_v2a.pdf

March 5, 2009 Proposed	May 26, 2009 Proposed (highlighted changes are from March 5, 2009 version)	Reason for Change
<p>ISO Rule 6.6 - Pool Participant Non-Compliance with Energy Market Dispatch and Directives</p>	<p>ISO Rule 6.6 - Pool Participant Non-Compliance with Energy Market Dispatch and Directives</p>	
<p>allowable dispatch variance (ADV), means plus or minus 5MW for generating assets with a maximum capability of 200 MW or less and 10 MW for generating assets with a maximum capability of greater than 200 MW from the dispatch quantity.</p> <p>“minimum stable generation” means the minimum generation level as submitted to the Energy Trading System, at which an asset can be continuously operated without becoming unstable.</p>	<p>Definitions – for the purposes of this rule the terms below are defined as follows:</p> <p>“allowable dispatch variance” (ADV) as measured from the dispatch quantity (MW), means for each generating asset:</p> <ul style="list-style-type: none"> (i) plus or minus five (5) MW for generating assets with a maximum capability of two hundred (200) MW or less, or (ii) plus or minus ten (10) MW for generating assets with a maximum capability of greater than two hundred (200) MW. 	<p>This revision was to provide better structure and clarity.</p>

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	<p>“10 minute clock period” means any one of the following six 10 minute periods in any hour:</p> <p style="text-align: center;">ME:01 to ME:10 ME:11 to ME:20 ME:21 to ME:30 ME:31 to ME:40 ME:41 to ME:50 ME:51 to ME:60</p> <p style="text-align: center;">where “ME” means minute ending.</p> <p>“operational deviation” means:</p> <p>(i) a generating asset is unable to comply with the ramping requirements set out in rule 6.6.3(a) or 6.6.3(b), or</p>	

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	<p>(ii) a generating asset operating in steady state varies outside its ADV due to force majeure or any other circumstances related to the operation of the generating asset which could reasonably be expected to affect the available capability or safety of the generating asset, third party facilities, contracts or arrangements, the environment, personnel working at the generating asset or the public.</p> <p>“ramping” means the state of operation that begins at the point in time an energy market dispatch has been issued for a generating asset and continues until the point in time the generating asset has reached the quantity (MW) specified in the energy market dispatch, plus or minus the ADV for that generating asset.</p>	

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	<p>“steady state” means the state of operation that begins the first 10 minute clock period following the period in which a generating asset’s output has reached the quantity (MW) specified in an energy market dispatch, plus or minus the ADV for that generating asset.</p>	
<p>6.6.1 Dispatch Compliance Responsibilities</p> <p>(a) A pool participant may only deliver energy to the AIES pursuant to a dispatch or a directive issued by the</p>	<p>6.6.1 Dispatch Compliance Responsibilities</p> <p>(a) A pool participant may only deliver energy to the AIES pursuant to a dispatch or a directive issued by the</p>	<p>Section revised to provide clarity regarding dispatch compliance responsibilities.</p>

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<p>system controller. A pool participant may be considered to be non-compliant if an energy market dispatch or directive is not followed.</p> <p>(b) It is expected that generating assets will be operated using good electric operating practice and to the quantity (MW) dispatched or directed.</p> <p>(c) The pool participant is responsible for coordinating its energy, dispatch down service and ancillary services submissions to ensure that it is able to comply with an ancillary service dispatch or energy market dispatch issued pursuant to such submissions.</p> <p>(d) The ISO will monitor compliance of pool participants with energy market dispatch or a directive and refer any</p>	<p>system controller.</p> <p>(b) Subject to the provisions of this rule 6.6, a pool participant must comply with and follow an energy market dispatch.</p> <p>(c) With regard to its responsibilities under rule 6.6.1 e), a pool participant must use all reasonable best efforts to cause any generating assets referenced in an energy market dispatch or directive to be operated to the quantity (MW) that is the subject of that dispatch or directive, using good electric operating practice.</p> <p>(d) The pool participant must coordinate its energy, dispatch down service and ancillary services submissions to</p>	

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<p>suspected contraventions to the MSA in accordance with ISO rule 12.</p>	<p>ensure that it is able to comply with all dispatches related to those submissions.</p> <p>e) The pool participant must meet its energy market dispatch or directive compliance responsibilities using a standard of practice attained by exercising the degree of knowledge, skill, diligence, prudence and foresight which would reasonably and ordinarily be expected from a skilled and experienced person engaged in the same type of undertaking, including the design, implementation and use of a reasonable energy market dispatch or directive protocol together with personnel and software systems designed to detect and address errors or omissions in a timely fashion.</p>	

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6.6.2 Steady State Compliance	6.6.2 Steady state Compliance	Revisions made for clarity.
<p>(a) For the purpose of rule 6.6 the term steady state means the state that begins once a generating asset's output has reached the quantity (MW) specified in an energy market dispatch plus or minus the allowable dispatch variance for such generating asset.</p> <p>b) For the purpose of this rule the term 10 minute clock period refers to any one of six 10 minute periods in an hour defined as follows:</p> <p>ME:01 to ME:10 ME:11 to ME:20</p>	<p>(a) During steady state, with reference to an energy market dispatch issued to a pool participant the average quantity (MW) delivered by a generating asset in any 10 minute clock period must not vary from the energy market dispatch quantity (MW) by more than the ADV.</p> <p>(b) A pool participant that is supplying regulating reserve from a generating asset must ensure that the quantity (MW) delivered in any 10 minute clock period is:</p>	

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<p>ME:21 to ME:30 ME:31 to ME:40 ME:41 to ME:50 ME:51 to ME:60</p> <p>Where ME means minute ending.</p> <p>(c) In order to allow for momentary deviations from the dispatch level that may unintentionally occur from time to time steady state quantity (MW) delivered is averaged over 10 minute clock periods. During steady state the average quantity (MW) delivered by a generating asset in any 10 minute clock period must not vary from the dispatch quantity (MW) by more than the ADV.</p> <p>(d) A pool participant that is supplying regulating reserve from its</p>	<p>(i) not less than the energy market dispatch quantity (MW) minus the ADV and</p> <p>(ii) not greater than the energy market dispatch quantity (MW) plus the regulation reserve plus the ADV.</p>	

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<p>generating asset must ensure that the quantity (MW) delivered in any 10 minute clock period is not less than the energy market dispatch quantity (MW) minus the ADV or greater than the energy market dispatch quantity (MW) plus the regulation range plus the ADV.</p>		
<p>6.6.3 Ramping Compliance</p> <p>(a) For the purpose of this rule 6.6 the term ramping means the state that begins once an energy market dispatch has been issued for a generating asset until the time the generating asset has achieved the quantity (MW) specified in the energy market dispatch plus or minus the ADV.</p>	<p>6.6.3 Ramping Compliance</p> <p>(a) In accordance with an energy market dispatch issued to a pool participant, the output of a generating asset which is the subject of the energy market dispatch and is ramping must be changed in a sustained manner towards the quantity (MW) indicated in that energy market dispatch within ten (10) minutes of the time specified in the energy</p>	<p>Revisions made to allow ample opportunity to comply with ramping requirements given the diverse challenges faced by the various types of generating assets.</p>

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<p>(b) A generating asset must begin to respond to an energy market dispatch within 10 minutes of the time specified in such dispatch.</p> <p>(c) A generating asset must reach steady state in no longer than the period of time determined by dividing the incremental dispatch quantity (MW) by the ramp rate as indicated in the pool participant submitted ramp profile, plus 10 minutes and no sooner than the period of time determined by dividing the incremental energy market dispatch quantity (MW) less the ADV by the ramp rate as indicated in the pool participant submitted ramp profile.</p>	<p>market dispatch.</p> <p>(b) a generating asset must reach steady state in:</p> <p>(i) no longer than the period of time calculated as follows:</p> <p>(A) divide the incremental energy market dispatch quantity (MW) by the ramp rate submitted by the pool participant in the Energy Trading System;</p> <p>(B) add forty percent (40%) of the time calculated in rule 6.6.3(b)(i)(A) or five (5) minutes whichever is greater;</p>	

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	<p>(C) add the ten (10) minutes referred to in rule 6.6.3 (a);</p> <p>and</p> <p>(ii) no sooner than the period of time calculated as follows:</p> <p>(A) divide the incremental energy market dispatch quantity (MW) by the ramp rate submitted by the pool participant in the Energy Trading System;</p> <p>(B) subtract forty (40%) of the time calculated in rule 6.6.3(b)(ii)(A) or five (5) minutes whichever is greater;</p>	

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<p>6.6.4 Operational Deviation</p> <p>(a) For the purpose of this rule 6.6 operational deviation means that a generating asset is unable to comply with the ramping requirements set out in rules 6.6.3(b) or 6.6.3(c) or the generating asset operating in steady state varies outside the ADV due to force majeure or circumstances related to the operation of the generating asset which could reasonably be expected to affect the availability, capability, or safety of the generating asset, the environment, personnel working at the generating</p>	<p>6.6.4 Operational deviation Energy Market Dispatch Relief</p> <p>(a) With respect to an energy market dispatch, in the event that a generating asset experiences an operational deviation, the pool participant must verbally inform the system controller as soon as practical of the occurrence of the operational deviation and provide a description of the cause if known.</p> <p>(b) The pool participant must inform the system controller by telephone of the information required under rules 6.6.4</p>	<p>Revisions made for clarity.</p>

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<p>asset or the public.</p> <p>(b) In the event that a generating asset experiences an operational deviation from the energy market dispatch quantity (MW) the system controller must be informed by the pool participant as soon as practical of the occurrence of the operational deviation and the cause if known.</p> <p>(c) In the event that a generating asset is unable to comply with the ramping requirements set out in rules 6.6.3(b) or 6.6.3(c) the system controller must be informed by the pool participant before such requirements are violated if possible or as soon as practical and the cause if known.</p> <p>(d) The generating asset's available</p>	<p>(a) on a recorded line on the ISO voice recording system.</p> <p>(c) Unless otherwise instructed by the system controller, the generating asset's available capability must be restated in accordance with rule 3.5.4.2 by the end of the next full 10 minute clock period after which the operational deviation occurred if the operational deviation extends for that period or longer</p>	

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<p>capability must be restated in accordance with rule 3.5.4.2 by the end of the next full 10 minute clock period after which the operational deviation occurred if the operational deviation extends for that period or longer.</p>		
<p>6.6.5 Exceptions to Non-Compliance</p> <p>A pool participant is not considered to be non-compliant with an energy market dispatch for a generating asset if any one or more of the following applies:</p> <p>a) If the generating asset is ramping into position to provide operating reserves in the 15 minutes before the time indicated in a dispatch to provide operating reserves.</p>	<p>6.6.5 Exceptions to Non-Compliance</p> <p>Notwithstanding the provisions set out in rules 6.6.2, 6.6.3 and 6.6.4, a pool participant will not be considered to be non-compliant with an energy market dispatch for a generating asset if the pool participant has met its responsibilities as set out in rule 6.6.1 and if one or more of the following circumstances occur:</p> <p>(a) The generating asset is ramping into</p>	<p>Revisions made to provide better alignment with the rest of the rule.</p>

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<p>b) If the generating asset is operating below the minimum stable generation level indicated in the Energy Trading System provided such asset is:</p> <p>i) coming on line and its available capability submitted is equal to its minimum stable generation and it has received a dispatch for this quantity (MW).</p> <p>ii) going off line and its available capability submitted is equal to zero and it has received a dispatch for this quantity (MW).</p> <p>iii) unable to follow normal ramp times when its output is being increased to its minimum stable generation and a verbal plan has been</p>	<p>position to provide operating reserves in response to an operating reserve dispatch in the fifteen (15) minutes before the time indicated in that dispatch;</p> <p>(b) The generating asset is operating below the minimum stable generation level indicated in the Energy Trading System, but only if that generating asset is:</p> <p>(i) coming on line and its available capability submitted to the ISO is equal to its minimum stable generation and it has received an energy market dispatch for that quantity (MW);</p> <p>(ii) going off line and its available capability submitted to the ISO is</p>	

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<p>submitted to the system controller indicating the proposal for ramping to minimum stable generation. The verbal plan must be updated for deviations of greater than 15 minutes or 50 MW.</p> <p>iv) stopped at an output level below minimum stable generation for more than 15 minutes for an operational reason and has restated its available capability accordingly.</p> <p>c) If it is responding to abnormal frequency through automatic governor action</p> <p>d) In respect of energy delivered to the AIES while a pool participant is testing and/or commissioning,</p>	<p>equal to zero (0) and it has received an energy market dispatch for that quantity (MW);</p> <p>(iii)unable to follow the ramp rate submitted by the pool participant in the Energy Trading System when its output is being increased to its minimum stable generation and a verbal plan has been submitted to the system controller indicating the proposal for ramping to minimum stable generation, which verbal plan must be updated for deviations of greater than thirty (30) minutes or fifty (50) MW; or</p> <p>(iv)stopped at an output level not identified in the verbal plan referenced in iii) above, but which</p>	

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<p>provided that the pool participant has complied with the ISO Operating Policies and Procedures and has received approval from the system controller.</p>	<p>is below minimum stable generation for more than fifteen (15) minutes for an operational reason and has restated its available capability accordingly;</p> <p>(c) The generating asset is responding to abnormal frequency through automatic governor action;</p> <p>(d) An operational deviation has occurred and the pool participant has complied with rule 6.6.4; or</p> <p>(e) Energy delivered to the AIES from a generating asset while it is being tested or commissioned or both, but only if the pool participant has complied with the ISO Operating Policies and Procedures and has received approval from the system</p>	



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