

Request to Develop Reliability Rules for Implementation of Rules Enhancement Plan (REP)

Item	Response
1. Rules Enhancement Plan (REP) Description	On April 11, 2013, the NYSRC Executive Committee adopted a Rules Enhancement Plan (REP) which: (1) restructures the present NYSRC Reliability Rules and supporting elements, and (2) proposes new rules and revises others to ensure they are consistent with current and pending NERC and NPCC standards and criteria, while continuing to maintain NYSRC's more stringent and specific requirements. Comments will be considered for proposed new and revised rules that are highlighted in red-line. The REP is described in the NYSRC report, <i>Rules Enhancement Plan</i> , www.nysrc.org/reports3.asp , which describes the restructured rule format (PRR Lines 3-7) and the tasks for implementing the REP.
2. Reliability Rule Requester	NYSRC Reliability Rules Subcommittee (RRS)
3. REP Proposed Reliability Rule (PRR) No.	REP-08
4. Number and Title of Proposed Reliability Rule	D-R1 Establishing the Minimum Level of Operating Reserve
5. Section A – Reliability Rule Elements	
1. Reliability Rule	A minimum level of <i>operating reserve</i> for ensuring an acceptable degree of service continuity in the NYCA to protect against the possibility of equipment failure shall be established.
2. Associated NERC & NPCC Standards and Criteria	NPCC Directory 5 NERC BAL-002
3. Applicability	NYISO
6. Section B – Requirements	
Requirements	<p>R1. Scheduled outages and deratings of <i>resources</i> shall be coordinated in such a manner that the available <i>resources</i>, with due allowance for forced outages and deratings, will be adequate to meet NYCA's forecasted <i>load</i> and <i>operating reserve</i> requirements. Procedures shall be developed consistent with the Reliability Rules that: maintain a minimum <i>operating reserve</i> level for each type of <i>reserve</i>, in both computer directed and non-computer directed dispatch; define how anticipated future shortages of <i>reserve</i> will be handled; and defines coordination with other <i>Market Participants</i> in NPCC and PJM to share <i>reserves</i>. The procedure must include forecasts for weekly, daily, and hourly <i>reserves</i>, and reflect the impact of capability, <i>loads</i>, response rates, transactions, transmission limitations, and unit commitment. These forecasts must also support unit commitment.</p> <p>R2. The minimum <i>operating reserve</i> requirement of the NYISO shall be the sum of:</p> <ol style="list-style-type: none"> a. Sufficient <i>ten (10) minute operating reserve</i> to replace the operating capacity loss caused by the most severe <i>contingency</i> observed under <i>normal transfer criteria</i> multiplied by the <i>Contingency Reserve Adjustment Factor</i>. b. Sufficient <i>thirty (30) minute operating reserve</i> equal to one-half of the <i>ten (10) minute operating reserve</i> necessary to replace the

	<p>operating capacity loss caused by the most severe <i>contingency</i> observed under <i>normal transfer criteria</i>.</p> <p>At all times sufficient <i>ten (10) minute operating reserve</i> shall be maintained to cover the energy loss due to the most severe <i>normal transfer criteria contingency</i> within the NYCA or the energy loss caused by the cancellation of an interruptible energy purchase from another system, whichever is greater multiplied by the <i>Contingency Reserve Adjustment Factor</i>.</p> <p>R3. The <i>ten (10) minute operating reserve</i> portion of the NYISO’s minimum <i>operating reserve</i> requirement shall be fully available within ten (10) minutes and shall be in the following categories:</p> <p>R3.1 <i>Synchronized Operating Reserve</i> - At least one-half of the <i>ten (10) minute operating reserve</i> will consist of unused <i>resource capacity</i> which is synchronized and ready to achieve claimed capacity, or <i>resource capacity</i> which can be made available by curtailing pumping hydro units, or canceling energy sales to other systems.</p> <p>R3.2 <i>Non-Synchronized Ten Minute (10) Operating Reserve</i> - The remainder of the <i>ten (10) minute operating reserve</i> may be composed of non-synchronized <i>resource capacity</i> such as hydro, pumped storage hydro, and quick start combustion <i>generation</i>, which can be synchronized and loaded to claimed <i>capacity</i> in ten (10) minutes or less, and <i>interruptible load</i> that can be activated in ten (10) minutes or less.</p> <p>R4. The <i>thirty (30) minute operating reserve</i> portion of the NYISO’s <i>operating reserve</i> requirement is that portion of unused <i>resource capacity</i> or <i>interruptible load</i> which can and will be made fully available as promptly as possible, but in no more than thirty (30) minutes.</p> <p>R5. <i>Resource capacity</i> associated with the delivery of interruptible sales to adjacent <i>control areas</i> may be included as <i>operating reserve</i> in the category agreed upon by the purchaser.</p> <p>R6. Following a <i>contingency</i>, the <i>ten (10) minute operating reserve</i> shall be restored within thirty (30) minutes of the time that the <i>contingency</i> occurred, or sooner if possible.</p> <p>R7. The NYISO shall maintain procedures and systems that ensure the <i>adequacy</i> of <i>operating reserves</i> and shall provide documentation of these procedures and systems, in accordance with R1 to R6. The NYISO must notify the NYSRC of any changes to these procedures and systems.</p>
<p>7. Section C – Compliance Elements</p>	
<p>1. Measures</p>	<p>M1. In accordance with R7, NYISO has procedures consistent with maintaining the requirements for operating resource adequacy (R1), and the requirement to maintain availability and minimum level in all operating reserve categories (R2 and R3). NYISO commitment and dispatch systems shall maintain resources and operating reserve consistent with the requirements of R1 to R6. To the extent necessary these procedures and systems took into consideration Local</p>

	Reliability Rules. The NYISO notified NYSRC of any changes to the procedures or systems.
2. Levels of Non-Compliance	<p>For Measure 1</p> <p>Level 1: NYISO did not have adequate procedures or systems in place, or failed to notify NYSRC of a change to its procedures or systems.</p> <p>Level 2: Not applicable.</p> <p>Level 3: Not applicable.</p> <p>Level 4: The NYISO did not provide the required procedures.</p>
3. Compliance Monitoring Process (See Policy 4):	
3.1 Compliance Monitoring Responsibility	C-M1: RCMS
3.2 Reporting Frequency	C-M1: In accordance with NYSRC Compliance Monitoring Program schedule.
3.3 Compliance Reporting Requirements	C-M1: NYISO Self-Certification
8. Implementation Plan	This Reliability Rule will be implemented in accordance with the NYSRC <i>Rules Enhancement Plan</i> .
9. Comments	The above reformatted Reliability Rule D-R1 and Requirements R1 through R7 include existing Reliability Rules D-R1 through D-R4 and Measurement D-M2.
10. Date Reliability Rule Adopted	
11. REP PRR Revision Dates	1/30/14