

VI. RELIABILITY RULES
REVISION 2 – SEPTEMBER 14, 2012

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
1	NYPA	Run Back of Generators	<p><u>Post Contingency Flow on Marcy-New Scotland</u></p> <p>The post-contingency flow on the Marcy-New Scotland 18 line is allowed to exceed its LTE rating for the loss of the Edic-New Scotland 14 line by the amount of relief that can be obtained by tripping the Gilboa pumping load as a single corrective action. Also, the post-contingency flow on the Edic-New Scotland 14 line is allowed to exceed its LTE rating for either the loss of the Marcy-New Scotland 18 line alone, or the double-circuit loss of the Marcy-New Scotland 18 and Adirondack-Porter 12 lines, by the amount of relief that can be obtained by tripping the Gilboa pumping load as a single corrective action.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee January 27, 1988.</i></p>	E-R1
2	NG	Applicable Rating	<p><u>Post Contingency Flow on Volney-Clay and Nine Mile-Clay</u></p> <p>The post-contingency flow on the Volney-Clay #6 line and the 9 Mile-Clay #8 line is allowed to reach its STE rating for "normal" transfers.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee October 25, 1979</i></p>	E-R1
3	NG	Applicable Rating Run Back of Generators	<p><u>Post Contingency Flow on New Scotland-Leeds</u></p> <p>The post-contingency flow on the NS-Leeds line is allowed to reach its STE rating for transfers to NE & SENY, with sufficient generation at Gilboa.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee October 25, 1979.</i></p>	E-R1
4	NG	Monitoring	<p><u>Monitoring of Transmission Transformer</u></p> <p>National Grid is fully responsible for monitoring all National Grid 345/115 kV, 345/230 kV, and 230/115 kV transformer overloads and contingency overloads. The NYISO notifies National Grid of any overloads and contingency overloads it detects, but does not invoke these limits unless requested to do so by National Grid.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee October 25, 1979.</i></p>	E-R1

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
5	NYPA	Applicable Rating Run Back of Generators	<p><u>Post Contingency Loading on Gilboa-Leeds</u></p> <p>The post-contingency flow on the Gilboa-Leeds (GL-3) line is allowed to reach its STE rating with four generators on at Gilboa.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee December 7, 1983.</i></p>	E-R1
6	NYPA	Special Protection System	<p><u>Post Contingency Loading on L33P and L34P</u></p> <p>The post-contingency flows on the L33P line and the L34P line are allowed to reach their STE ratings, provided there is sufficient generation rejection selected at the Saunders generating station in Ontario, or sufficient control remaining on the phase angle regulators to return the flows to LTE within 15 minutes.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee December 14, 1994.</i></p>	E-R1*
7	CE	Run Back of Generators	<p><u>Operational Control of Feeder 21192 for Loss of Feeders 21, 22, and A21191</u></p> <p>The loss of the common tower carrying feeders 21 and 22 results in Arthur Kill generator 3 feeding into the remaining 345/138 kV Fresh Kills transformer. To avoid overloading this transformer (Feeder 21192), the output of Arthur Kill 3 must be reduced so that the transformer is below its STE rating within 5 minutes and below its LTE rating within 10 minutes, post contingency.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee December 6, 1984.</i></p>	E-R1
8	CE	Special Protection System	<p><u>Post Contingency Flow on Buchanan-Millwood W97 or W98</u></p> <p>The post-contingency flow on line W97 for the loss of W98 may exceed its LTE rating up to its STE rating if the contingency loss of lines W98 and Y88 does not cause resultant flows on any other feeder to exceed Normal Transfer Criteria.</p> <p>The post-contingency flow on line W98 for the loss of W97 may exceed its LTE rating up to its STE rating if the contingency loss of lines W97 and Y88 does not cause resultant flows on any other feeder to exceed Normal Transfer Criteria.</p> <p>This exception does not apply if either W97, W98, Y88, Indian Point 3, or the overload relay system is out of service.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee May 30, 1985.</i></p>	E-R1*

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
9 Rescinded 10/15/09				
10	NYPA	Special Protection System	<p><u>Post Contingency Flow on Marcy AT-1 Transformer</u></p> <p>The post-contingency flow on the Marcy AT-1 bank is allowed to exceed its STE rating for the loss of the Marcy AT-2 bank, provided that the overload relay protection on the AT-1 bank is in-service.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee November 20, 1986.</i></p>	E-R1*
11	NYPA	Special Protection System	<p><u>Post Contingency Flow on Plattsburgh-Vermont PV20 Line</u></p> <p>The post-contingency flow on the Plattsburgh-Vermont PV20 tie-line is allowed to reach its STE rating so long as NYPA can ensure that the Overload Mitigation system is available on a manual or automatic basis to reduce the flow to below the LTE rating immediately following the actual occurrence of the contingency.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee February 15, 1995.</i></p>	E-R1*
12	NYPA	Monitoring	<p><u>Post Contingency Flow on Marcy Transformer T2</u></p> <p>The post-contingency flow on the Marcy Transformer T2 is allowed to exceed its LTE rating up to its STE rating following the loss of Marcy Transformer T1.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee July 23, 1987.</i></p>	E-R1

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
13	NYPA	Run Back of Generators	<p><u>Post Contingency Flows on Niagara Project Facilities</u></p> <p>For the following Niagara Project facilities, the post-contingency flows are allowed to reach their STE ratings, if NYPA can ensure that sufficient generation can be reduced at Niagara to return the flows to less than their STE ratings within 5 minutes and to less than their LTE ratings within 10 minutes from the initial overload:</p> <ul style="list-style-type: none"> • Niagara Project transformers • Lines connected directly to the Niagara Project <p style="text-align: right;"><i>Initially Approved by NYPP Operating Committee August 19, 1993. Revision Approved by NYSRC Executive Committee February 12, 2010.</i></p>	E-R1
14				
Rescinded 9/14/12				
15	NYSEG	Voltage Control	<p><u>Post Contingency Voltage at Oakdale and Watercure</u></p> <p>The post-contingency voltages at the Oakdale 345 kV bus, the Oakdale 230 kV bus, and Watercure 230 kV bus are allowed to fall below their respective post-contingency low voltage limits for either the simultaneous loss of the Oakdale-Lafayette 4-36 line and the Oakdale-Fraser 32 line, or the loss of one of these lines when the other line is already out of service.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee May 16, 1991.</i></p>	B-R2 & E-R2

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
16	CE	Monitoring	<p><u>East 13th Street and East River Load Pocket</u></p> <p>Con Edison is responsible for operating for contingencies resulting from the loss of any East 13th Street 345/138 kV transformer, or the 345/69 kV transformer. These facilities provide radial support to the East 13th Street and East River load pocket and are not part of the bulk power system.</p> <p style="text-align: right;"><i>Approved NYPP Operating Committee August 27, 1997.</i></p>	E-R1
17	CE	Special Protection System	<p><u>Ramapo to Buchanan 345 kV Feeder Outages</u></p> <p>During times when 345kV feeder Y94 - Ramapo to Buchanan is out of service, allow post-contingency loading for the loss of 345kV feeder W93 to exceed STE ratings on Transformer TA-5 and 138kV feeder 95891; and during times when 345kV feeder W93 – Buchanan to Eastview is out of service, allow post-contingency loading when 345kV feeder Y94 is open ended at Ramapo to exceed STE ratings on Transformer TA-5 and 138kV feeder 95891. If the stated event occurs during the specified outages, there is automatic overload protection installed to trip Buchanan 138kV breaker F7.</p> <p style="text-align: right;"><i>Approved NYRSC Executive Committee May 9, 2003.</i></p>	E-R1*
18	CE	Applicable Rating Run Back of Generators	<p><u>Eastview to Sprainbrook 345 kV Feeder W79 Outages</u></p> <p>During an outage to either feeder Y94/95891 or feeder W79, post-contingency loadings shall be allowed to exceed the STE rating of Eastview transformer 2N for the loss of W79 or Y94/95891, respectively, provided Indian Point #2 generation can and will back down post-contingency to reduce flows through transformer 2N within applicable limits, i.e., less than STE within 5 minutes and less than LTE within 10 minutes from the initial overload.</p> <p style="text-align: right;"><i>Approved NYRSC Executive Committee May 10, 2002.</i></p>	E-R1

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

Exception Reference No.	TO	Exception Category	Exception	NYSRC Reliability Rule
19 Rescinded 1/31/10				
20	CE	Applicable Rating	<p><u>PS&G Tie Feeders A2253, B3402, and C3403</u></p> <p>Con Edison operates to post-contingency STE ratings on underground circuits based on the ability to reduce the loading to LTE ratings within 15 minutes and not exceed LTE ratings on any other facilities.</p> <p>The following PSE&G tie feeders are operated to post-contingency LTE ratings:</p> <ul style="list-style-type: none"> • A2253 Linden-Goethals 230 kV • B3402 Hudson-Farragut 345 kV • C3403 Hudson-Farragut 345 kV <p style="text-align: right;"><i>Approved NYRSC Executive Committee September 10, 1999</i></p>	E-R1

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

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21	CE	Applicable Rating	<p><u>F30, F31, F36, F37, W64, 69, 70, W72, W75, W79, W80, W81, W82, W85, Y86, Y87, Y88, Y89, W90, W93, Y94, and W99 Above Normal Rating Operation</u></p> <p>The following feeders on the Consolidated Edison System have STE ratings which are limited by disconnect or wavetrap restrictions and not by conductor sagging limitations. These feeders will be operated above Normal ratings and up to LTE ratings (for 4 hours) without changing their STE ratings:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">F30 Pleasant Valley-Wood St.</td> <td style="width: 50%;">W80 Wood St.-Millwood West</td> </tr> <tr> <td>F31 Pleasant Valley-Wood St.</td> <td>W81 Wood St.-Millwood West</td> </tr> <tr> <td>F36 Pleasant Valley-East Fishkill</td> <td>W82 Millwood West-Eastview</td> </tr> <tr> <td>F37 Pleasant Valley-East Fishkill</td> <td>W85 Millwood West-SprainBrook</td> </tr> <tr> <td>W64 Eastview-SprainBrook</td> <td>Y86 Wood St.-Pleasantville</td> </tr> <tr> <td>W65 Eastview-SprainBrook</td> <td>Y87 Wood St.-Pleasantville</td> </tr> <tr> <td>69 Ramapo-South Mahwah</td> <td>Y88 Ladentown-Buchanan South</td> </tr> <tr> <td>70 Ramapo-South Mahwah</td> <td>W89 Pleasantville-Dunwoodie</td> </tr> <tr> <td>W72 Ramapo-Ladentown</td> <td>W90 Pleasantville-Dunwoodie</td> </tr> <tr> <td>W79 Eastview-SprainBrook</td> <td>W99 Millwood West-Eastview</td> </tr> <tr> <td>W93 Buchanan North-Eastview</td> <td>Y94 Ramapo-Buchanan NorthW75</td> </tr> </table> <p>SprainBrook-Dunwoodie (Winter Rating Period Only)</p> <p style="text-align: right;"><i>Approved NYRSC Executive Committee September 10, 1999</i></p>	F30 Pleasant Valley-Wood St.	W80 Wood St.-Millwood West	F31 Pleasant Valley-Wood St.	W81 Wood St.-Millwood West	F36 Pleasant Valley-East Fishkill	W82 Millwood West-Eastview	F37 Pleasant Valley-East Fishkill	W85 Millwood West-SprainBrook	W64 Eastview-SprainBrook	Y86 Wood St.-Pleasantville	W65 Eastview-SprainBrook	Y87 Wood St.-Pleasantville	69 Ramapo-South Mahwah	Y88 Ladentown-Buchanan South	70 Ramapo-South Mahwah	W89 Pleasantville-Dunwoodie	W72 Ramapo-Ladentown	W90 Pleasantville-Dunwoodie	W79 Eastview-SprainBrook	W99 Millwood West-Eastview	W93 Buchanan North-Eastview	Y94 Ramapo-Buchanan NorthW75	E-R1
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W93 Buchanan North-Eastview	Y94 Ramapo-Buchanan NorthW75																									
22	CE	Applicable Rating	<p><u>W97 and W98 Above Normal Rating Operation</u></p> <p>The following feeders on the Consolidated Edison System have overload relay protection. These feeders will be operated above Normal rating and up to LTE rating (for 4 hours) without changing their STE ratings:</p> <ul style="list-style-type: none"> • W97 Buchanan South-Millwood West • W98 Buchanan South-Millwood West <p style="text-align: right;"><i>Approved NYRSC Executive Committee September 10, 1999</i></p>	E-R1																						

EXCEPTIONS TO RELIABILITY RULES (CONT'D.)

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23	NG	Special Protection System	<p><u>Generation Rejection at Athens</u></p> <p>When the Athens Generation Special Protection System is active, the post-contingency flows on the Leeds-Pleasant Valley 345kV line #92 or the Athens-Pleasant Valley 345kV line # 91 are allowed to reach their STE ratings following the loss of the parallel #91 or #92 circuit respectively, provided that there is sufficient generation dispatched and selected for rejection/runback at the Athens generating station and that SPS rejection/runback actions take no more than three minutes in order to ensure that flows are returned to or below LTE ratings within 15 minutes.</p> <p style="text-align: right;"><i>Approved NYRSC Executive Committee March 9, 2007</i></p>	E-R1*

* See *NYSRC Reliability Rules Section E Introduction for note on SPSs.*