

TO Applications of NYSRC Reliability Rules

TO Application Of NYSRC Reliability Rule No.	NYSRC Reliability Rule	Category	Transmission Owner	Definition of The Application
ARR 1	OPERATION DURING IMPENDING SEVERE WEATHER Rule E-R6.	ADVERSE WEATHER Icing Conditions	NYPA	The 765 kV high voltage limit may be reduced during ice formation or other conditions. This may impact the permissible transformer tap ranges and settings of other voltage regulating equipment. This may impact Bulk Power System interface transfer capability.
ARR 2	AS ABOVE	ADVERSE WEATHER Storm Watch	NYPA	NYPA may limit the imports on the 765kV tie line with Hydro Quebec to a maximum of 1300MW when thunderstorms are reported to be in the vicinity of the 765kV transmission corridor. This may impact Bulk Power System interface transfer capability.
ARR 3	VOLTAGE ASSESSMENT Rule E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits	REACTIVE POWER SUPPORT Function of Power Flow	NYPA	765 kV OPERATING VOLTAGE LIMITS In operation of the 765 kV transmission system, permissible voltage and MVAR ranges are coordinated with levels of power flow. Coordinated switching of shunt reactors, capacitor banks, and transformer taps is done to maintain voltage within permissible ranges. This may impact Bulk Power System interface transfer capability.
ARR 4	SPS GENERAL REQUIREMENTS Rule Section E Introduction STABILITY ASSESSMENT Rule E-R3.	BULK POWER SYSTEM Generation Rejection	NYPA	L33P AND L34P OUT OF SERVICE When the L33P and L34P circuits are out of service, NYPA monitors a special Moses South stability indicator (MSC7040 SOUTH MINUS 250 MW) to be within certain limits to maintain the security of the North Country power system. Curtailment of Hydro Quebec import and/or local generation may be required to respect the limits. Moreover, NYPA may enable the Moses 230 kV generation rejection scheme.. This may impact Bulk Power System interface transfer capability.
ARR 5	SPS GENERAL REQUIREMENTS Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1 STABILITY ASSESSMENT Rule E-R3 SYSTEM PROTECTION Rules H-R1 & H-R2	BULK POWER SYSTEM Generation Rejection	NYPA	MMS-1 AND MMS-2 OUT OF SERVICE When the MMS-1 and MMS-2 circuits are out of service restrictions are placed on the permissible equipment configurations and number of Beauharnois units in the Chateauguay complex, as well as the MSV-7040 flow limits. NYPA monitors a special stability indicator (MS-MSU-OH) to be within certain limits to maintain the security of the North Country power system. Curtailment of Hydro Quebec import and/or local generation may be required to respect the limits. Moreover, NYPA may enable the Moses 230 kV generation rejection scheme. This may impact Bulk Power System interface transfer capability.
ARR 6	GENERAL REQUIREMENTS OF SPSs Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1 STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Generation Rejection	NYPA	MSU-1 OUT OF SERVICE When the MSU-1 765 kV circuit is out of service, NYPA monitors the Moses South minus Ontario Hydro South flows to be within certain limits to maintain the security of the North Country power system. Curtailment of Hydro Quebec import and/or local generation may be required to respect the limits. Moreover, NYPA may enable the Moses 230 kV generation rejection scheme. This may impact Bulk Power System interface transfer capability.

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ARR 7	AS ABOVE	BULK POWER SYSTEM Generation Rejection	NYPA	MSU-1 AND L33P OR L34P OUT OF SERVICE When the MSU-1 circuit and L33P or L34P are out of service, NYPA monitors the Moses South minus Ontario South flows to be within certain limits to maintain the security of the North Country power system. Curtailment of Hydro Quebec import and/or local generation may be required to respect the limits. Moreover, NYPA may enable the Moses 230 kV generation rejection scheme. Also, operation of Chateauguay HVDC is not permitted. This may impact Bulk Power System interface transfer capability.
ARR 8	AS ABOVE	BULK POWER SYSTEM Generation Rejection	NYPA	ST. LAWRENCE BUSES 1A OR 2A OUT OF SERVICE When St. Lawrence bus 1A or 2A are out of service, NYPA monitors a special stability indicator (MS-MS-7040-OH+PV20) to be within certain limits to maintain the security of the North Country power system. Curtailment of Hydro Quebec import and/or local generation may be required to respect the limits. Moreover, NYPA may enable the Moses 230 kV generation rejection scheme. Several other restrictions are placed on operation of the Chateauguay complex. This may impact Bulk Power System interface transfer capability.
ARR 9	SPS GENERAL REQUIREMENTS Rule Section E Introduction STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Generation Rejection	NYPA	OUTAGES OF PA301 AND PA302 To increase Western NY export limit for a simultaneous outage of PA301 and PA302 345 kV circuits, NYPA may enable the OCB 2114 Breaker Failure Timer Bypass and arm the Generation Drop Scheme at the Robert Moses Niagara Power Project. This may impact Bulk Power System interface transfer capability.
ARR 10	SPS GENERAL REQUIREMENTS Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1	BULK POWER SYSTEM Generation Rejection	NYPA	NIAGARA 230 kV SWITCHYARD For certain line/breaker outage conditions in the Niagara 230 kV East yard, post-contingency loading up to STE rating is permitted on certain equipment and NYPA may place Niagara generators on the generation rejection scheme. This may impact Bulk Power System interface transfer capability.
ARR 11	AS ABOVE	BULK POWER SYSTEM Generation Rejection	NYPA	NIAGARA 230 kV GENERATOR DROP SCHEME NYPA may enable the Niagara 230 kV generation rejection scheme to relieve thermal overloads in the area. This may impact Bulk Power System interface transfer capability.
ARR 12	SPS GENERAL REQUIREMENTS Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1 STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Generation Rejection	NYPA	ST. LAWRENCE /FDR 230 kV GENERATION DROP SCHEME To increase the export capability from the Northern NY area and the Central East limit for various line and equipment maintenance conditions, NYPA may enable the Moses 230 kV generation rejection scheme. This may impact Bulk Power System interface transfer capability.

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ARR 13	SPS GENERAL REQUIREMENTS Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1 STABILITY ASSESSMENT Rule E-R3 SYSTEM PROTECTION Rules H-R1 & H-R2	BULK POWER SYSTEM	NYPA	NYPA-HYDRO-QUEBEC MSC-7040 765 kV INTERCONNECTION This rule contains the extensive operating instructions for the Hydro Quebec Chateauguay complex that is interconnected with NYPA via the MSC-7040 765 kV line. The instructions provide for the reliable operation of the bulk power system by delineating permissible equipment configurations, permissible number of Beauharnois machines and MSC-7040 import/export flow limits among other things. This may impact Bulk Power System interface transfer capability.
ARR 14	OUTAGE COORDINATION Rule E-R5 provides that appropriate adjustments shall be made to the NY Control Area operations to accommodate the impact of protection group outages.	BULK POWER SYSTEM Relay Protection	NYPA	765 kV SYSTEM PROTECTION OUTAGES For certain relay equipment outages on the 765 kV system, NYPA may impose restrictions on the Moses South and MSC-7040 transfer limits. Under more severe relay equipment outage conditions, NYPA may remove the MSU-1 and or the MSC-7040 from service. This may impact Bulk Power System interface transfer capability.
ARR 15	AS ABOVE	BULK POWER SYSTEM Relay Protection	NYPA	IN-SERVICE RELAY WORK AT MASSENA SUBSTATION. To prevent unnecessary trips of the 765 kV tie line to Hydro Quebec at high import levels, NYPA may remove the 765 kV system from service or limit the import level to a maximum of 1300 MW for certain relay maintenance procedures at Massena substation. This may impact Bulk Power System interface transfer capability.
ARR 16	STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Local Actions	NYPA	OUTAGE OF MARCY-EDIC 345KV LINE NYPA has procedures that include modifications of the Fitzpatrick terminal voltage requirements for stability and possible operating restrictions on the Chateauguay Complex. This may impact Bulk Power System interface transfer capability.
ARR 17	THERMAL ASSESSMENT Rule E-R1	BULK POWER SYSTEM Local Actions	NYPA	AUTOBANK OUTAGE AT NIAGARA During an outage of autobank #3 at Niagara, NYPA may open bus tie breakers 2332 and 2342 to prevent greater than STE post-contingency overloading of bank #5 for the loss of bank #4. This will allow normal MW output of the Niagara plant.
ARR 18	STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Local Actions	NYPA	FITZPATRICK PLANT TERMINAL VOLTAGE REQUIREMENTS To maintain the stability of the James A Fitzpatrick (JAF) NPP generator for certain severe contingencies on the 345 kV grid, NYPA requires the JAF NPP to keep its terminal voltage and in some cases its reactive power output above certain minimum levels.
ARR 19	AS ABOVE	BULK POWER SYSTEM Local Actions	NYPA	ISOLATION OF MSU-1 LINE ON A SINGLE MARCY 345 kV LINE NYPA may impose operating restrictions on the Chateauguay Complex and limit the maximum MSC-7040 flow for maintenance outage conditions where a contingency may isolate the MSU-1 line onto a single Marcy 345 kV exit. This may impact Bulk Power System interface transfer capability.

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ARR 20	SPS GENERAL REQUIREMENTS Rule Section E Introduction THERMAL ASSESSMENT Rule E-R1 VOLTAGE ASSESSMENT Rule E-R2 STABILITY ASSESSMENT Rule E-R3	LOCAL AND BULK POWER SYSTEM Generator Dispatch Restrictions	NYPA/ NYSEG	Certain line outages will require a pre-contingency re-dispatch of the Saranac generation. Saranac Energy must be notified of planned or emergency outages involving these facilities. A. 700 Line outage will require Saranac to reduce its output to 180 MW or less depending on loading conditions. B. 701 Line outage will require Saranac to reduce to 180 MW or less depending on loading conditions. C. 702 Line outage: A subsequent forced outage of the 701 Line will cause the Saranac units to trip. D. MW P#1 Line outage: With the PV-20 "cross-trip" enabled, Saranac must reduce its output to as low as 175MW. E. Whenever the PV-20 cross trip is enabled: Saranac may be reduced to as low as 180 MW.. F. MWP #2 Line Outage: With the PV –20 cross trip enabled Saranac must reduce its output to as low as 175 MW. G MSU #1 Line Outage: Outages of this line will reduce the capacity on the Moses-South Interface. Saranac will need to reduce its output to somewhere between 0 and 240 MW, depending on system conditions during the outage. H MMS #1 or MMS #2 Line Outages: Maintenance outages involving either of these two Moses to Massena 230 kV lines will result in restricted capacity on the Moses South Interface. It will be necessary for Saranac to reduce its output to somewhere between 0 and 240 MW, depending on system conditions during the outage. I PV-20 Line Outage: Outages of this line will require Saranac to be reduced to 175 MW to avoid stability problems for loss of both Moses-Willis-Plattsburgh (MWP) circuits. J NYPA Plattsburgh Bus #1: To maintain stability for the loss of Moses-Willis-Plattsburgh (MWP) and stuck breaker 202, Saranac must be limited to 110 MW. K NYPA Plattsburgh Bus #2: To maintain stability during this outage for the loss of both MWP 1 and MWP 2, Saranac must be limited to 140 MW. L. WM #1 line and Moses to Willis to Plattsburgh: During this multiple circuit outage, Saranac must be limited to 200 MW to maintain stability for the loss of the remaining MWP line. M Willis to Saranac WS #1 line and one MWP line: During this multiple circuit outage, Saranac must be limited to 210 MW to maintain stability for the loss of the remaining MWP line.
ARR 21	OPERATION DURING IMPENDING SEVERE WEATHER Rule E-R6: Corrective actions to protect for one contingency greater than normal criteria shall be carried out, and generation may be ordered to full capability	ADVERSE WEATHER Storm Watch	CENTRAL HUDSON	Requires two units at Danskammer to be committed for service under storm watch conditions when Central Hudson's system loads are greater than 450 MW.

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ARR 22	VOLTAGE ASSESSMENT Rules B-R2 & E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits	REACTIVE POWER SUPPORT Unit Commitment	LIPA	LIPA operates in accordance with local reliability rules to insure the safe and reliable operation of the transmission system. The following table is a summary of local generation or unit commitment requirements to meet voltage control and thermal loading criteria. Voltage support in LIPA system: A. During peak load conditions commitment of any two (of four) Northport units are required to prevent voltage collapse of the 138 kV system. B. During light load conditions commitment of any two (of four) Northport units are required to prevent overvoltage on the 138 kV system. C. During peak load conditions commitment of up to two Port Jefferson units are required to prevent voltage collapse of the 138 kV system east of Holbrook.
ARR 23	AS ABOVE	REACTIVE POWER SUPPORT Function of System Load	NIAGARA MOHAWK	VOLTAGE SUPPORT IN SOUTHWEST REGION Indeck Olean Unit to support 115 kV area during peak loads.
ARR 24	VOLTAGE ASSESSMENT Rules B-R2 & E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits	REACTIVE POWER SUPPORT For Outages	NIAGARA MOHAWK	VOLTAGE SUPPORT IN CENTRAL REGION (ROME) A. During outages of lines 3, 4, or 5, the Oneida Sterling unit must be available to maintain 115 kV bus voltages in the Rome area. B. During maintenance outages of the Oneida Cap bank, the Oneida Sterling unit must be available to support 115 kV voltages in the Oneida - Rome area. C. During maintenance outages of the Porter-Yahnundasia 3 line, the Oneida Sterling unit must be available to support 115 kV buses in the Westmoreland / Clinton/ Chadwicks areas. D. During outages of the Rome Cap bank, the Oneida -Sterling unit must be available to support 115 kV voltages in the Rome area. E. During maintenance outages of the Tilden-Cortland 18 line, the Oneida Sterling unit must be available to support 115 kV voltages in the Nedrow/Cortland area.
ARR 25	AS ABOVE	REACTIVE POWER SUPPORT For Outages	NIAGARA MOHAWK	VOLTAGE SUPPORT IN CENTRAL REGION A. During maintenance outages of the Cortland-Etna 1 (947) line, the OCRRA unit must be available to support 115 kV voltages in the Nedrow/Cortland area. B. During maintenance outages of the Oneida – Fenner 8 or Fenner - Cortland 3 lines out of service, the OCRRA unit must be available to maintain 115 kV voltages in the Nedrow /Cortland area. C. During maintenance outages of the Cortland 115 kV Cap bank, the OCRRA unit must be available to maintain voltages in the Nedrow/Cortland area.
ARR 26	AS ABOVE	REACTIVE POWER SUPPORT Voltage Specification	CON EDISON	TRANSMISSION LEVEL VOLTAGES This procedure uses existing operating guidelines to maintain adequate voltage levels and reactive reserve for its portion of the NYS power system. For normal and peak load conditions, the 345 kV and 138 kV voltages shall be maintained within these limits: 345 kV Voltage 350 kV +9 kV to 350 - 4 kV 138 kV Voltage 138 kV +5 kV to 138 - 2 kV

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ARR 27	AS ABOVE	REACTIVE POWER SUPPORT	LIPA	LIPA must maintain sufficient reactive reserves on Long Island to sustain the loss of the two largest reactive sources.
ARR 28	<p>VOLTAGE ASSESSMENT Rules B-R2 & E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits</p>	REACTIVE POWER SUPPORT Unit Commitment	LIPA	<p>LIPA operates in accordance with local reliability rules to insure the safe and reliable operation of the transmission system. The following table is a summary of local generation or unit commitment requirements to meet voltage control and thermal loading criteria. Voltage support in LIPA system:</p> <ul style="list-style-type: none"> A. During peak load conditions commitment of any two (of four) Northport units are required to prevent voltage collapse of the 138 kV system. B. During light load conditions commitment of any two (of four) Northport units are required to prevent overvoltage on the 138 kV system. C. During peak load conditions commitment of up to two Port Jefferson units are required to prevent voltage collapse of the 138 kV system east of Holbrook. D. During light load conditions commitment of one Barrett unit is required to prevent overvoltage on the 138 kV system. E. At or above average system load conditions commitment of the Far Rockaway unit is required to prevent voltage collapse of the 69 kV Rockaway Peninsula. F. At peak load conditions commitment of the Montauk Diesel unit is required to prevent voltage collapse of the 69 kV system on the South Fork of Long Island. G. At or above average system load conditions commitment of the East Hampton Gas Turbine unit is required to prevent voltage collapse of the 69 kV system on the South Fork of Long Island. H. At or above average system load conditions commitment of the South Hampton Gas Turbine is required to prevent voltage collapse of the 69 kV system on the South Fork of Long Island. I. At or above average system load conditions commitment of the East Hampton Diesel unit is required to prevent voltage collapse of the 69 kV system on the South Fork of Long Island. J. At peak load conditions commitment of the Southold Gas Turbine unit is required to prevent voltage collapse of the 69 kV system on the South Fork of Long Island. <p>Major LIPA facilities out of service may required increased generation in load pockets to reduce line flows or maintain voltage. Further, prudent utility practice warrants a review of the impact of loss of the Northport Substation and that possible overtrips of Y49 and Y50 be considered for unit commitment.</p>
ARR 29	<p>VOLTAGE ASSESSMENT Rules B-R2 & E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits</p>	REACTIVE POWER SUPPORT Function of System Load	NYSEG	During summer and winter heavy load periods, at least one unit at Milliken/AES Cayuga must be in service post-contingency to provide adequate voltage to the customers in NYSEG's Ithaca Division. On a pre-scheduled basis, during summer and winter heavy load periods, both Milliken/AES-Cayuga units must be on-line.

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ARR 30	AS ABOVE	REACTIVE POWER SUPPORT Function of System Load	NIAGARA MOHAWK	VOLTAGE SUPPORT IN SOUTHWEST REGION During peak loads requires sufficient commitment of Dunkirk generating units to support 115 and 230 kV voltages.
ARR 31	AS ABOVE	REACTIVE POWER SUPPORT Function of System Load	NIAGARA MOHAWK	During off-peak and light load periods, the availability of various system generation resources over a wide area must be committed for voltage control to protect equipment from damage and avoid equipment malfunction due to high voltages.
ARR 32	AS ABOVE	REACTIVE POWER SUPPORT Voltage Specification	CENTRAL HUDSON	Voltages on the 115 and 69kV transmission system will be maintained within +/- 2.5% of nominal under normal conditions.
ARR 33	AS ABOVE	REACTIVE POWER SUPPORT Function of System Load	CENTRAL HUDSON	During heavy load periods one or more units at Danskammer may be required to provide adequate voltage support.
ARR 34	AS ABOVE	REACTIVE POWER SUPPORT For Outages	NIAGARA MOHAWK	VOLTAGE SUPPORT IN SOUTHWEST REGION Indeck Olean unit must support 115 kV voltages when more than one Dunkirk unit is out of service.
ARR 35	VOLTAGE ASSESSMENT Rules B-R2 & E-R2: Reactive power reserves should be available to maintain voltages within applicable pre-disturbance and post-disturbance limits	REACTIVE POWER SUPPORT For Outages	NIAGARA MOHAWK	VOLTAGE SUPPORT IN SOUTHWEST REGION Reactive support needed from Dunkirk units 1&2 when one Dunkirk 230/115 kV transformer is out of service.

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ARR 36	AS ABOVE	REACTIVE POWER SUPPORT For Outages	NIAGARA MOHAWK	VOLTAGE SUPPORT IN CENTRAL REGION (OSWEGO) During outages of Oswego 345/115 kV or Oswego 115 kV Cap bank, Indeck Hammermill generator is required to support voltage on 115 kV buses at Nine Mile and Fitzpatrick.
ARR 37	PRE-CONTINGENCY AND POST-CONTINGENCY THERMAL CRITERIA Rule E-R1: No facility shall be loaded pre-contingency beyond its normal rating, and no facility shall be loaded post-contingency beyond its LTE rating (STE rating for underground cables). AS ABOVE	BULK POWER SYSTEM Rapid Response to Manage Cable System Loading	CON EDISON	MAXIMUM GEN AND FAST LOAD PICK UP ALARMS SYSTEM The use of phase angle regulators and rapid increases in in-City generation permits Con Edison to use Short Term Emergency (STE) ratings rather than Long Term Emergency (LTE) ratings for operating the cable system. If contingency analysis shows that the post contingency loading on the cable system will exceed STE ratings, then immediate action is taken, including Fast Load Pick-up/Maximum Generation, to mitigate the post contingency overloads.
ARR 38	AS ABOVE	LOCAL POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	During outages of the Alcoa Bus Tie, R8105, the Northern Region area north of Dennison station must have limited import capability from Cedars (HQ). The import from Cedars under this condition is 150 MW as metered at Cornwall Electric and 95 MW as metered at Dennison.
ARR 39	AS ABOVE	LOCAL POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	During outages of either the Cedars-Dennison 1 or 2 lines, the Northern Region area north of Dennison must have limited import capability from Cedars (HQ). The import from Cedars under this condition is 150 MW as metered at Cornwall Electric.
ARR 40	AS ABOVE	LOCAL POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	During outages of the Dennison Bus Tie, R8105, the Northern Region area north of Dennison must have limited import capability from Cedars (HQ). The import from Cedars under this condition is 115 MW as metered at Cornwall Electric.
ARR 41	PRE-CONTINGENCY AND POST-CONTINGENCY THERMAL CRITERIA. Rule E-R1: No facility shall be loaded pre-contingency beyond its normal rating, and no facility shall be loaded post-contingency beyond its LTE rating (STE rating for underground cables).	LOCAL POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	During outages of either Dennison-Colton 4 or 5 lines or Alcoa-Dennison 12 line, the Northern Region area north of Dennison must have limited import capability from Cedars (HQ). The import from Cedars under this condition is 200 MW as metered at Cornwall Electric.

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ARR 42	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	CENTRAL HUDSON	GENERATION CONSTRAINTS / DANSKAMMER Under certain circumstances including, but not limited to, planned and/or forced outages of critical transmission facilities, the level of generation at Danskammer must be constrained in order to ensure system security.
ARR 43	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	CENTRAL HUDSON	GENERATION CONSTRAINTS / WEST SIDE 69 kV SYSTEM Under certain circumstances, including but not limited to, planned and/or forced outages of critical transmission facilities, the level of generation within the West Side 69 kV System must be constrained in order to insure system security.
ARR 44	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	NYSEG	ITHACA 115 kV TRANSMISSION SYSTEM During maintenance outages of any one of the three 115 kV lines that exit Miliken, the Miliken unit output will need to be reduced so that the loss of either remaining line will not cause the single remaining line to exceed its STE rating and that the emergency response rates of both units can reduce the line loading to normal within 15 minutes. The three lines involved are: Miliken to Etna 975L, Miliken to Etna 974L, and Miliken to Wright 973L.
ARR 45	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	RG&E	GINNA GENERATION TRANSMISSION LIMITATIONS Subsequent to a permanent outage of selected 115 kV circuits, reductions in Ginna output are required. Maintenance outages on circuits 908 and 912 are restricted to periods when Ginna generation is on line.
ARR 46	PRE-CONTINGENCY AND POST-CONTINGENCY THERMAL CRITERIA Rule E-R1: No facility shall be loaded pre-contingency beyond its normal rating, and no facility shall be loaded post-contingency beyond its LTE rating (STE rating for underground cables).	LOCAL POWER SYSTEM Generator Dispatch Restrictions	RG&E	ALLEGANY GENERATION TRANSMISSION LIMITATIONS The loss of RG&E's 906 circuit between Station 162 and Station 158 will require an immediate reduction in the output of the KAMINE generator, which is connected to Station 162 (South Perry).
ARR 47	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	O&R	GENERATION CONSTRAINTS IN EASTERN LOAD POCKET During planned or forced outages of one of the two Lovett to West Haverstraw 138 kV lines, the maximum generation of the Lovett plant must be constrained to protect the underlying transmission system from overloads due to the loss of the second Lovett-West Haverstraw line.

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ARR 48	AS ABOVE	LOCAL POWER SYSTEM Generator Dispatch Restrictions	NYSEG	NYSEG has various IPPs located on the sub transmission and distribution system which require curtailment for sub transmission and distribution line switching and maintenance conditions. This is required to avoid ferro-resonance on the NYSEG sub transmission during maintenance conditions, or because the maintenance involves opening the IPP connection to the rest of the system, or because the switching procedure may cause the unit to unexpectedly trip off line.
ARR 49	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	CENTRAL HUDSON	GENERATION SUPPORT/SYSTEM IMPORT CAPABILITY Under certain circumstances including, but not limited to, planned and / or forced outages of critical transmission facilities, minimum levels of generation must be committed and dispatched at Danskammer in order to ensure system security.
ARR 50	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	CENTRAL HUDSON	GENERATION SUPPORT / WEST SIDE 69 kV SYSTEM Under certain circumstances including, but not limited to, planned and or forced outages of critical transmission facilities, minimum levels of generation must be committed and dispatched within the West Side 69 kV System in order to ensure system security.
ARR 51	PRE-CONTINGENCY AND POST-CONTINGENCY THERMAL CRITERIA Rule E-R1: No facility shall be loaded pre-contingency beyond its normal rating, and no facility shall be loaded post-contingency beyond its LTE rating (STE rating for underground cables).	LOCAL POWER SYSTEM Generator Requirement	NIAGARA MOHAWK	SYSTEM SECURITY IN SOUTHWEST REGION Requires dispatching of Indeck Olean unit during outages of either of the Dunkirk-Falconer 160, 161, or 162 lines.
ARR 52	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	NIAGARA MOHAWK	SYSTEM SECURITY IN NORTHEAST REGION DURING LOW HYDROELECTRIC GENERATION During peak load conditions with low Northeast Region hydro generation, the non-hydro units in the Northeast Region must be committed to operate to avoid exceeding STE ratings on certain 115 kV lines following a contingency.
ARR 53	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	NIAGARA MOHAWK	SYSTEM SECURITY IN CAPITAL REGION DURING EHV BANK OUTAGE During maintenance outages of the Capital Region's 345/115 kV or 230/115 kV transformers, sufficient Albany generation must be available to ensure adequate post-contingency loading on the remaining Capital Region autotransformers.

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ARR 54	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	NIAGARA MOHAWK	GENERATION SUPPORT/SYSTEM IMPORT CAPABILITY During peak load conditions with low Northern Region (Watertown area) hydro generation, the non-hydro units in the Watertown area must be committed to operate to avoid exceeding STE ratings on certain 115 kV lines Following a contingency.
ARR 55	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	O&R	GENERATION SUPPORT REQUIRED IN EASTERN LOAD POCKET During peak load periods sufficient Lovett generation is required to maintain system reliability so that voltage reduction or load shedding is not required for the loss of a transmission circuit or transformer.
ARR 56	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	O&R	GENERATION SUPPORT REQUIRED IN WESTERN LOAD POCKET During times of thunderstorm alert, peak loads or planned or forced transmission outages in the vicinity of the Western load pocket, sufficient Hydro and Gas Turbine reserve capacity must be available so that voltage reduction or load shedding is not required following a contingency.
ARR 57	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	RG&E	OVERLOAD MITIGATION DURING LIGHT LOAD PERIODS For system conditions when the load is less than 650MW and Ginna generation is above 450MW, additional generation within RG&E is required at Russell to relieve 34.5kV overloads.
ARR 58	AS ABOVE	LOCAL POWER SYSTEM Generator Requirement	RG&E	During peak load condition all RG&E fossil generation becomes " must run" to maintain system reliability. This avoids the need for voltage reduction or load shedding in the event of loss of Ginna or a transmission facility.
ARR 59	SYSTEM RESTORATION AND BLACKSTART Restoration, Rules G-R1 & G-R2, and NYPP Operating Procedure OP 13-4, "Restoration Policy", September 1, 1986: Guide for The Restoration of the Bulk Power System Following a Major Disturbance, Islanding, or System Interruption, requires Member Systems to have a restoration procedure.	LOCAL POWER SYSTEM System Restoration Plans and Blackstart Capability	ALL NYPP MEMBER SYSTEMS	IMPLEMENTATION OF MEMBER SYSTEMS RESTORATION PLANS The NYPP maintains a system restoration plan for the bulk power system under its control. In addition, the Member Systems of NYPP each have their own company Restoration Plans and Blackstart Procedures that are more specific to their systems and must be coordinated with the NYPP (NYISO). The NY ISO authorizes each Transmission Provider and its operators to take appropriate steps under normal and extreme emergency conditions to restore equipment as quickly as possible in accordance with each TP's operating practices.

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ARR 60	"Reliability Rules for Planning and Operating the New York Bulk Power System" May 2, 1997 Filing. NYPP principal document on planning and operating criteria	PLANNING CRITERIA	CENTRAL HUDSON	Used in determining system import and Danskammer export capabilities.
ARR 61	SPS GENERAL REQUIREMENTS Rule Section E Introduction VOLTAGE ASSESSMENT Rule E-R2	BULK POWER SYSTEM Reliability (SPS)	NYPA	PV-20 CROSS-TRIP SCHEME For certain system conditions, NYPA or VELCO may require the PV-20 cross-trip scheme to be enabled to maintain reliability.
ARR 62	STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	OSWEGO COMPLEX STABILITY LIMITS During "all lines in service" operation of the Oswego complex, the transient stability limit of the complex must be observed to insure the security of the Bulk Power System. The export out of the Oswego Complex must be within the appropriate transient stability limit assuming this limit is lower than the thermal limit of the complex.
ARR 63	AS ABOVE	BULK POWER SYSTEM Transfer Limits	NIAGARA MOHAWK	OSWEGO COMPLEX –345KV LINE OUTAGES During outages of the 345kV transmission lines in the Oswego Complex, the transient stability limit of the complex must be observed to insure the security of the bulk power system. The export limit Out of the Oswego Complex must be within the appropriate transient stability limit, assuming this limit is lower than the thermal limit of the complex.
ARR 64	PRE-CONTINGENCY AND POST-CONTINGENCY THERMAL CRITERIA Rule E-R1: No facility shall be loaded pre-contingency beyond its normal rating, and no facility shall be loaded post-contingency beyond its LTE rating (STE rating for underground cables).	BULK POWER SYSTEM Local Actions	NIAGARA MOHAWK	OSWEGO GENERATION COMPLEX – THERMAL LIMITS During operation of the Oswego Complex, the thermal limits of the complex must be observed and solved for to insure the security of the bulk power system. The export out of the Oswego Complex must be within the appropriate thermal limit by redispatching Oswego Complex Generation, should no units be " On Dispatch " in NYPP SCD.
ARR 65	STABILITY ASSESSMENT Rule E-R3	BULK POWER SYSTEM Local Actions	NYPA	OPERATION WITH HVDC ISOLATED. NYPA may remove the MSC- 040 line from service if the Chateauguay HVDC is isolated onto a single 765/120 kV transformer at Chateauguay and the condition is not corrected within 15 minutes.
ARR 66	Local Reliability Rule I-R1	Operating Reserves	Con Edison	Con Edison procedure SO3-18 states: The Gowanus and Narrows gas turbines will be placed in the quick start mode when contingency analysis indicates a post contingency violation to meet n-2 criteria exceeds the LTE rating of a facility in the Greenwood/Staten island load pocket, and the running of the Gowanus/Narrows gas turbines is the only alternative available to solve this violation of criteria.