



NEW  
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# Proposed Modification to Exception #1 to ARR

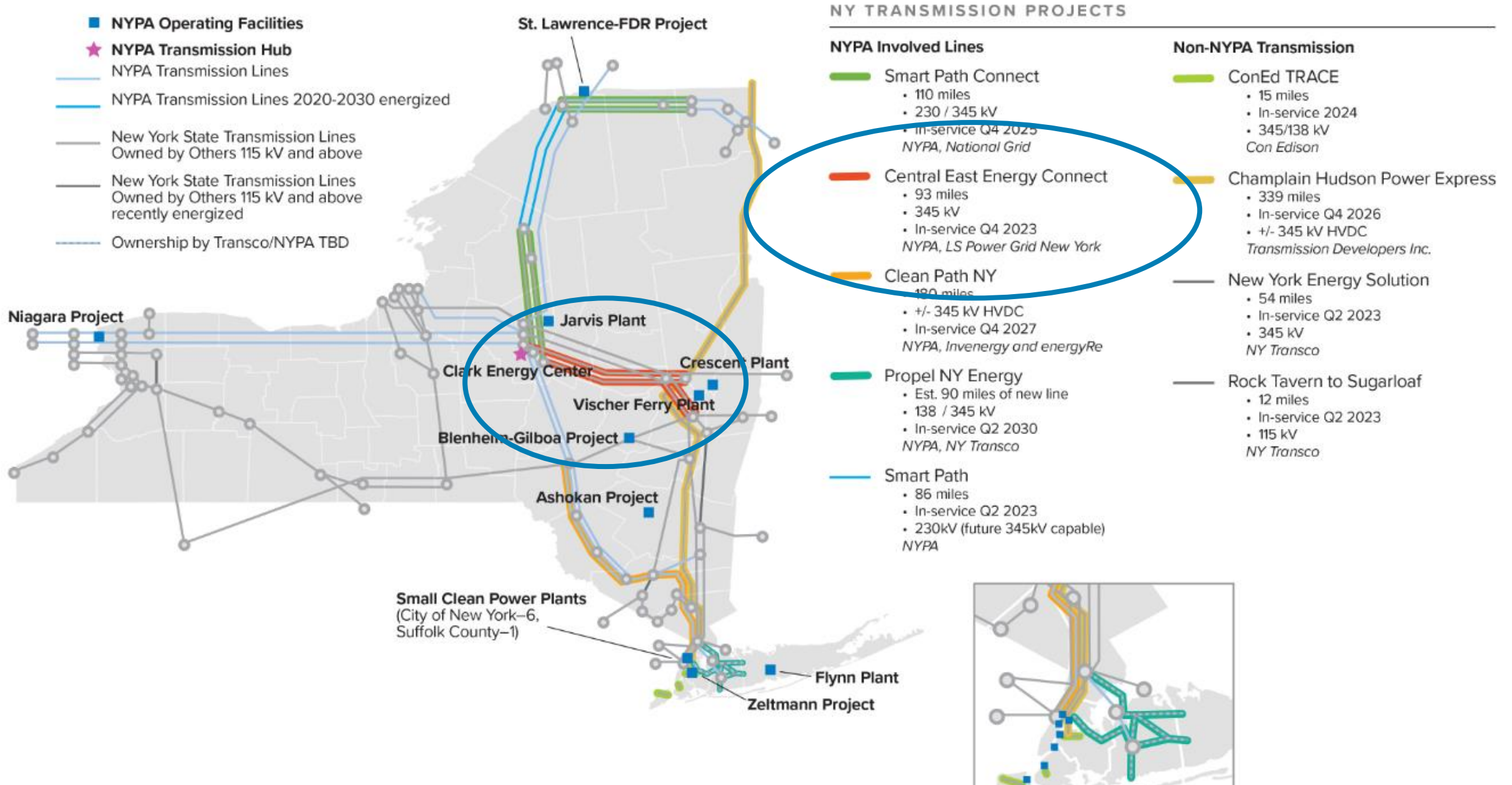


Application of Reliability Rules (ARR)

June 14, 2024

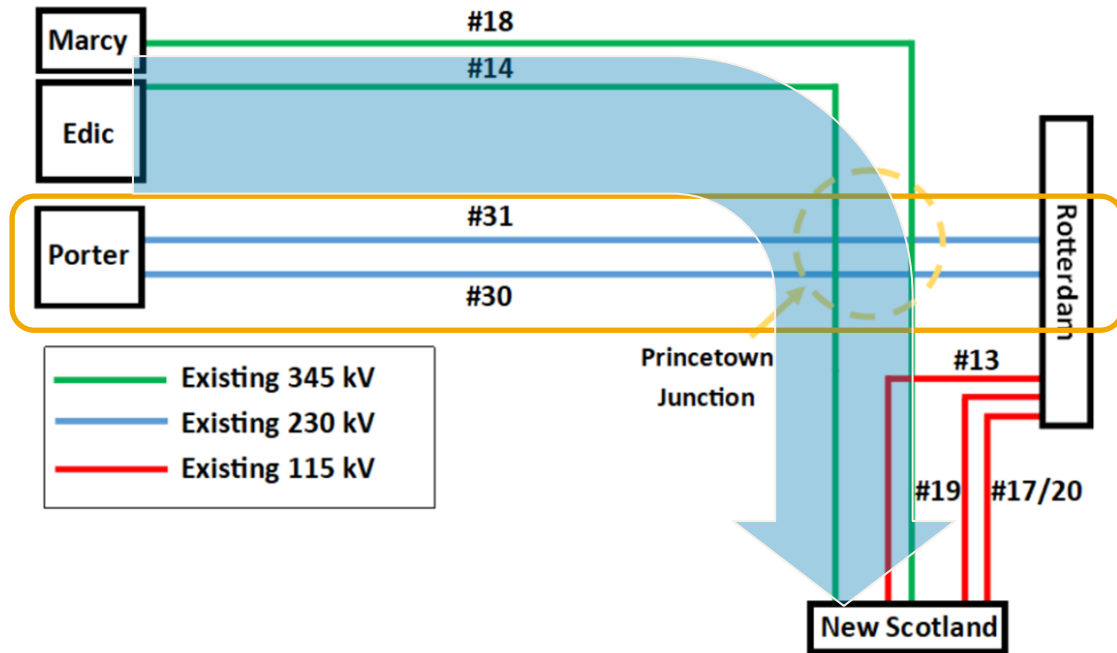


# Growing Transmission Capacity in New York State

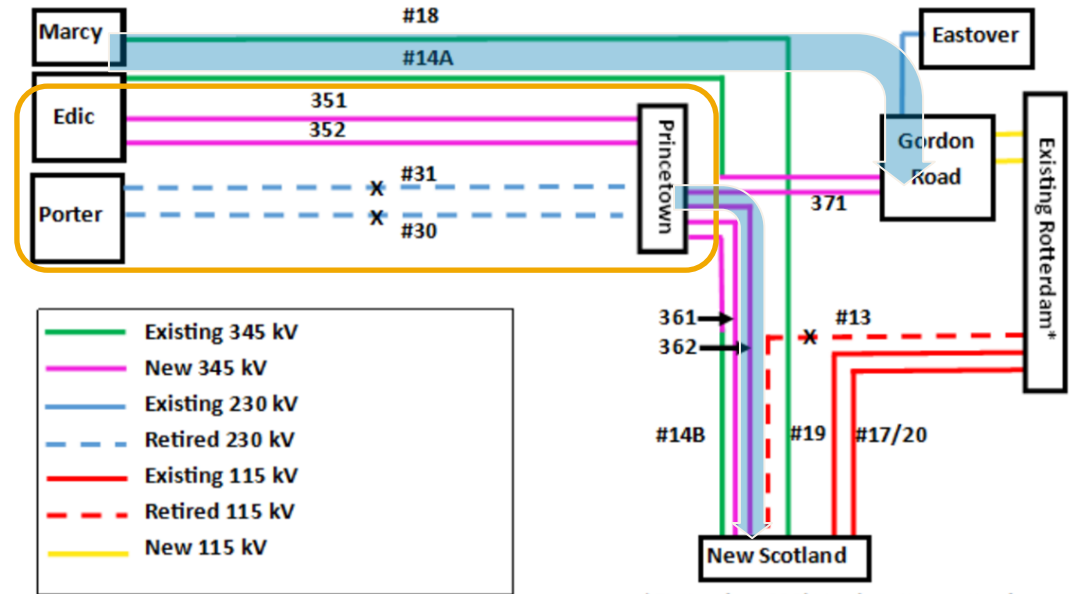


# With Central East Connect Project in-service

**Before**



**Current**



\*Rotterdam 230kV substation retired

# 345 kV Edic to New Scotland *ENS-14* line was modified into Edic to Gordon Road *EG-14* and Princetown to New Scotland *55* lines

ENS-14 line modified into **EG-14** and **55** lines.



# 230 kV Porter to New Scotland *31* and *32* lines into 345 kV *351* and *352* lines

230 kV **31** and **32** lines into the 345 kV **351** and **352** lines.

# Exception #1 To Reliability Rules: Post Contingency Flow on Marcy-New Scotland



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.

Approved NYPP Operating Committee  
January 27, 1988.

NYSRC Reliability Rule C.1

# NYPA's Request

- **Modify the existing Exception #1 to ARR by modifying circuit names to the new line and,**
- **Incorporate the worst thermal contingency, the new 345 kV double circuit tower contingency.**

# Exceptions to Exceed LTE Allowed For The Following Scenarios

## Existing Exception

### 345 kV UNS-18

- Allowed to exceed LTE for the Loss of **ENS-14**

### 345 kV ENS-14

- Allowed to exceed LTE for the Loss of **UNS-18**.
- Or for the loss double-circuit loss of **UNS-18** and **Porter-12** lines

## Proposed Exception

### 345 kV UNS-18

- Allowed to exceed LTE for the Loss of **EG-14**,
- Or for the loss double-circuit loss of **351** and **352** lines.

### 345 kV **EG-14**

- Allowed to exceed LTE for the Loss of **UNS-18**.
- Or for the loss double-circuit loss of **UNS-18** and **Porter-12** lines,
- Or for the loss double-circuit loss of **351** and **352** lines,

### 345 kV **PT-NS-55**

- Allowed to exceed LTE for the Loss of **UNS-18**.
- Or for the loss double-circuit loss of **UNS-18** and **Porter-12** lines,
- Or for the loss double-circuit loss of **361** and **362** lines.

# Is Exception #1 still effective with the new system topology?

NYPA analysis demonstrates dropping BG pumps is still effective at reducing post-contingency overloads on the modified **EG-14, 55** and UNS-18 lines



# All Line In-Service Contingency Screening Results With BG Offline

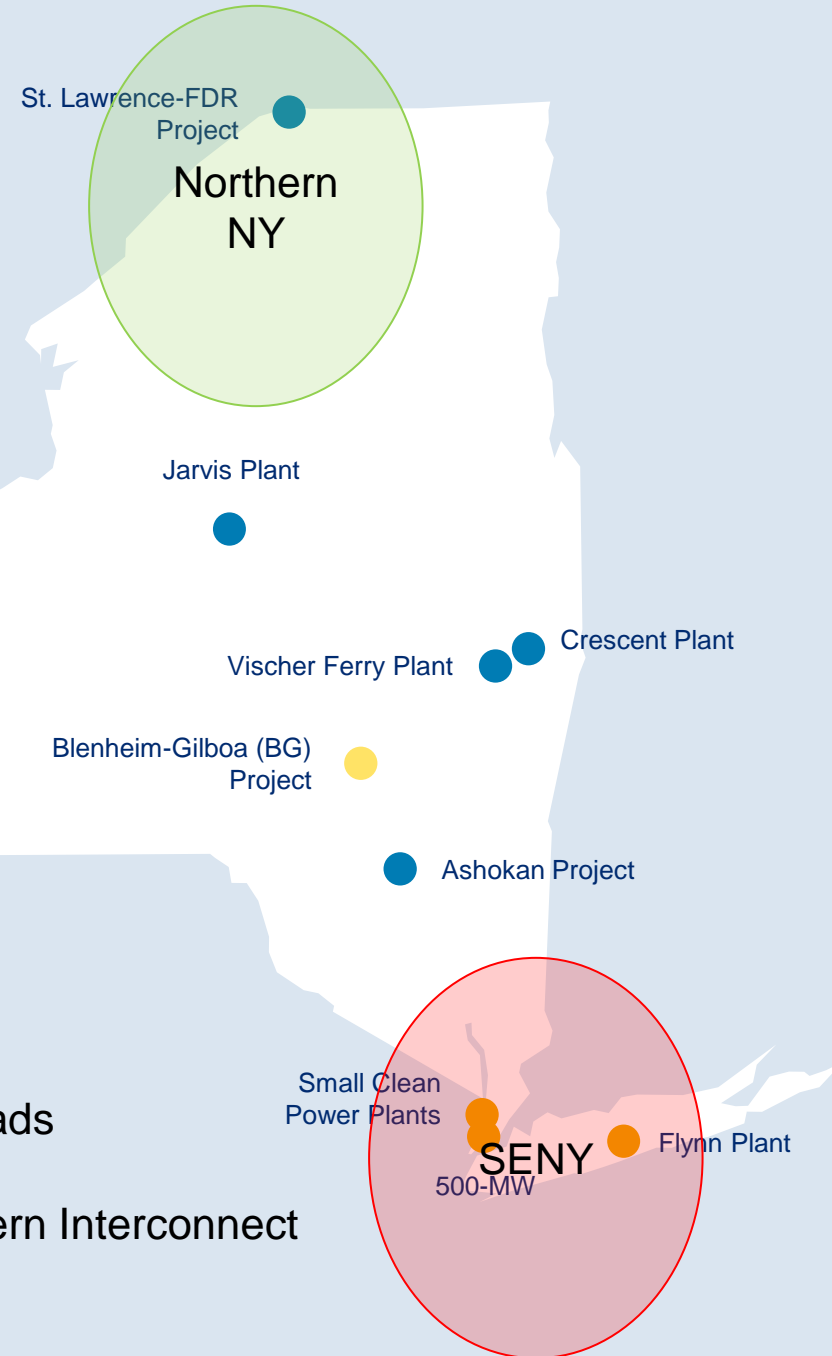
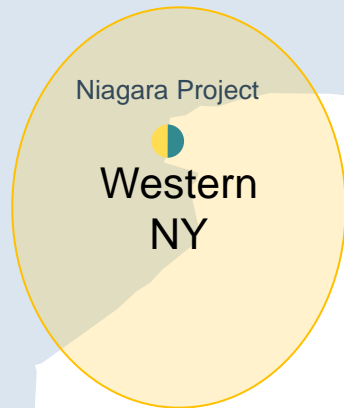
**Table 1: All In-Service Screening**

Monitored Ckt Name	Monitored Facility	Contingency Name	Base Flow (MVA)	Cont Flow (MVA)	LTE %Loading	STE % Loading
EG-14	137200 EDIC 345 148964 GORDON ROAD 345 1	DCT:EDIC-PRINCETOWN 351/352	904	1563	102	91
UNS-18	137453 N.SCOT99 345 147833 MARCY T1 345 1	DCT:EDIC-PRINCETOWN 351/352	1031	1552	94	79
PT-NS	137452 N.SCOT77 345 148965 PRNCTWN 345 1	DCT:PRINCETOWN-NSCOT 361/362	749	1679	94	87
EF24-40	135205 FRAEDCSC 345 137200 EDIC 345 1	T:EDIC-PRINECTOWN 352 & UCC2-41	947	1430	80	80
UCC2-41	147833 MARCY T1 345 148059 MARCCSC1 345 1	T:EDIC-PRINCETOWN 351 & EF24-40	1093	1427	80	80
UCC2-41	147833 MARCY T1 345 148059 MARCCSC1 345 1	EDIC-FRASER EF2-40	1093	1393	78	78
EP352	137200 EDIC 345 148965 PRNCTWN 345 2	T:EDIC-PRINCETOWN 352 & UCC2-41	999	1487	74	74
EP351	137200 EDIC 345 148965 PRNCTWN 345 1	T:EDIC-PRINCETOWN 351 & EF24-40	997	1460	72	72

# Three Different Generation Reduction Scenarios Used to Partially Correct ACE at 50% and 80%

## NYPA Operating Facilities by Fuel Type

- Hydro
- Pumped Storage
- Gas



## Study Assumptions:

- All Line In-Service
- Central-East stressed to ~ 3850 MW
- Sensitivity analysis with 50% and 80% of the BP pump loads compensated by reductions in Niagara generation
- Remainder of load/gen imbalance dispatched to the Eastern Interconnect



# UNS-18 Post-Contingency Loading And Relief

June 14, 2024

# UNS-18: Different Dispatch Scenarios For Post-Contingency Loading For The Loss Of EG-14

**Table 2: Loading Of UNS-18 For The Loss Of EG-14**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1497	1497		
Trip 1 BG Pump			1483	1455	1449
Trip 2 BG Pumps			1471	1416	1404
Trip 3 BG Pumps			1461	1379	1364
Trip 4 BG Pumps			1451	1343	1324

\* Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For The Loss Of EG-14

**Table 3: Load Relief Of UNS-18 For The Loss Of EG-14**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	14	42	48
Trip 2 BG Pumps	26	81	93
Trip 3 BG Pumps	36	118	133
Trip 4 BG Pumps	46	154	173

\* Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas



# UNS-18: Different Dispatch Scenarios For Post-Contingency Loading For The Loss Of EG-14

**Table 4: Loading Of UNS-18 For The Loss Of EG-14**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1497	1497		
Trip 1 BG Pump			1483	1448	1438
Trip 2 BG Pumps			1471	1402	1385
Trip 3 BG Pumps			1461	1359	1336
Trip 4 BG Pumps			1451	1318	1288

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas

# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For The Loss Of EG-14

**Table 5: Load Relief Of UNS-18 For The Loss Of EG-14**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	14	49	59
Trip 2 BG Pumps	26	95	112
Trip 3 BG Pumps	36	138	161
Trip 4 BG Pumps	46	179	209

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas

# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 6: Loading Of UNS-18 For Tower Contingency Loss Of 351 & 352**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	1005	1510	1510		
Trip 1 BG Pump			1510	1466	1458
Trip 2 BG Pumps			1510	1424	1410
Trip 3 BG Pumps			1494	1384	1454
Trip 4 BG Pumps			1480	1346	1494

\* Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 7: Load Relief Of UNS-18 For The Tower Contingency Loss Of 351 & 352**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	16	45	52
Trip 2 BG Pumps	30	86	100
Trip 3 BG Pumps	43	126	144
Trip 4 BG Pumps	56	164	184

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas

# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 8: Loading Of UNS-18 For Tower Contingency Loss Of 351 & 352**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	1005	1510	1510		
Trip 1 BG Pump			1494	1458	1446
Trip 2 BG Pumps			1480	1410	1390
Trip 3 BG Pumps			1467	1364	1339
Trip 4 BG Pumps			1455	1320	1295

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas



# UNS-18: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 9: Load Relief Of UNS-18 For The Tower Contingency Loss Of 351 & 352**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	16	52	64
Trip 2 BG Pumps	30	100	121
Trip 3 BG Pumps	43	146	172
Trip 4 BG Pumps	56	190	216

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas



# EG-14 Post-Contingency Loading And Relief

June 14, 2024

## EG-14: Post-Contingency Loading And Relief For The Loss Of UNS-18

**Table 10: Loading Of EG-14 For Tower Contingency Loss Of UNS-18**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1050	1050		
Trip 1 BG Pump			1041	1023	1019
Trip 2 BG Pumps			1032	998	991
Trip 3 BG Pumps			1023	976	959
Trip 4 BG Pumps			1014	956	899

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 & Porter-12 lines has the same loading the loss UNS-18 alone

## **EG-14: Post-Contingency Loading And Relief For The Loss Of UNS-18**

**Table 11: Load Relief Of EG-14 For The Tower Contingency Loss Of UNS-18**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	9	27	30
Trip 2 BG Pumps	18	51	58
Trip 3 BG Pumps	27	73	90
Trip 4 BG Pumps	36	93	120

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 & Porter-12 lines has the same loading the loss UNS-18 alone

## EG-14: Post-Contingency Loading And Relief For The Loss Of UNS-18

**Table 12: Loading Of EG-14 For Tower Contingency Loss Of UNS-18**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1050	1050		
Trip 1 BG Pump			1046	1019	1012
Trip 2 BG Pumps			1044	989	979
Trip 3 BG Pumps			1041	961	984
Trip 4 BG Pumps			1038	934	917

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 Porter-12 lines has the same loading the loss UNS-18 alone



## **EG-14: Post-Contingency Loading And Relief For The Loss Of UNS-18**

**Table 13: Load Relief Of EG-14 For The Tower Contingency Loss Of UNS-18**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	3	31	37
Trip 2 BG Pumps	6	60	71
Trip 3 BG Pumps	9	88	103
Trip 4 BG Pumps	12	115	133

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 Porter-12 lines has the same loading the loss UNS-18 alone

## EG-14: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 14: Loading Of EG-14 For Tower Contingency Loss Of 351 & 352**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1497	1497		
Trip 1 BG Pump			1483	1455	1449
Trip 2 BG Pumps			1471	1416	1404
Trip 3 BG Pumps			1461	1379	1364
Trip 4 BG Pumps			1451	1343	1324

\* Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

## **EG-14: Different Dispatch Scenarios For Post-Contingency Relief For The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 15: Load Relief Of EG-14 For The Tower Contingency Loss Of 351 & 352**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	14	42	48
Trip 2 BG Pumps	26	81	93
Trip 3 BG Pumps	36	118	133
Trip 4 BG Pumps	46	154	173

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

# EG-14: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 16: Loading Of EG-14 For Tower Contingency Loss Of 351 & 352**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	861	1497	1497		
Trip 1 BG Pump			1483	1448	1438
Trip 2 BG Pumps			1471	1402	1385
Trip 3 BG Pumps			1461	1359	1336
Trip 4 BG Pumps			1451	1318	1288

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas

## **EG-14: Different Dispatch Scenarios For Post-Contingency Relief For The Proposed Additional Tower Contingency Loss Of 351 & 352**

**Table 17: Load Relief Of EG-14 For The Tower Contingency Loss Of 351 & 352**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	14	49	59
Trip 2 BG Pumps	26	95	112
Trip 3 BG Pumps	36	138	161
Trip 4 BG Pumps	46	179	209

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas



# Princetown – New Scotland 55 Post-Contingency Loading And Relief

June 14, 2024

## 55 Line: Post-Contingency Loading For The Loss Of UNS-18

**Table 18: Loading Of 55 Line For Tower Contingency Loss Of UNS-18**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	762	964	964		
Trip 1 BG Pump			953	935	930
Trip 2 BG Pumps			941	907	899
Trip 3 BG Pumps			930	880	868
Trip 4 BG Pumps			919	853	837

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 & Porter-12 lines has the same loading the loss UNS-18 alone

## 55 Line: Total Post-Contingency Relief For The Loss Of UNS-18

**Table 19: Load Relief Of 55 Line For The Tower Contingency Loss Of UNS-18**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	12	29	34
Trip 2 BG Pumps	23	57	66
Trip 3 BG Pumps	34	84	97
Trip 4 BG Pumps	45	111	127

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 & Porter-12 lines has the same loading the loss UNS-18 alone

## 55 Line: Post-Contingency Loading And Relief For The Loss Of UNS-18

**Table 20: Loading Of 55 Line or Tower Contingency Loss Of UNS-18**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	762	964	964		
Trip 1 BG Pump			958	930	923
Trip 2 BG Pumps			953	898	885
Trip 3 BG Pumps			948	867	848
Trip 4 BG Pumps			942	836	811

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 Porter-12 lines has the same loading the loss UNS-18 alone

## **55 Line: Post-Contingency Loading And Relief For The Loss Of UNS-18**

**Table 21: Load Relief Of 55 Line For The Tower Contingency Loss Of UNS-18**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	6	34	41
Trip 2 BG Pumps	11	66	79
Trip 3 BG Pumps	17	97	117
Trip 4 BG Pumps	22	128	153

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas
- \* Tower Loss of the UNS-18 Porter-12 lines has the same loading the loss UNS-18 alone

## 55 Line: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 361 & 362**

**Table 22: Loading Of 55 Line For Tower Contingency Loss Of 361 & 362**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	762	964	-	-	-
Trip 1 BG Pump			953	937	934
Trip 2 BG Pumps			944	913	906
Trip 3 BG Pumps			935	889	879
Trip 4 BG Pumps			926	864	852

\* Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

## 55 Line: Different Dispatch Scenarios For Post-Contingency Relief For The Proposed Additional Tower Contingency Loss Of 361 & 362

**Table 23: Load Relief Of 55 Line For The Tower Contingency Loss Of 361 & 362**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	10	25	29
Trip 2 BG Pumps	19	50	56
Trip 3 BG Pumps	28	74	84
Trip 4 BG Pumps	37	98	111

- Post-contingency MVA relief when 50% of the pump load lost is offset by decreases in Different Areas

## 55 Line: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 361 & 362**

**Table 24: Loading Of 55 Line For Tower Contingency Loss Of 361 & 362**

Mitigation Action	Base Flow (MVA)	Initial Contingency Flow (MVA)	5 Min Contingency Flow After BG Pump Drop and ACE correction (MVA)		
			SENY	West NY	North NY
None	762	964	964		
Trip 1 BG Pump			953	937	934
Trip 2 BG Pumps			944	913	906
Trip 3 BG Pumps			935	889	879
Trip 4 BG Pumps			926	864	852

\* Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas



**55 Line: Different Dispatch Scenarios For Post-Contingency Relief For **The Proposed Additional Tower Contingency Loss Of 361 & 362****

**Table 25: Load Relief Of 55 Line For The Tower Contingency Loss Of 361 & 362**

Mitigation Action	Total Relief Per Dispatch: (MVA)		
	SENY	West NY	North NY
None	-	-	-
Trip 1 BG Pump	10	25	29
Trip 2 BG Pumps	19	50	56
Trip 3 BG Pumps	28	74	84
Trip 4 BG Pumps	37	98	111

- Post-contingency MVA relief when 80% of the pump load lost is offset by decreases in Different Areas

# Post-Contingency MVA Relief Expected From Tripping BG Pumps

This table shows a reasonable range of relief when 50% to 80% of the +ACE due to tripped pumps is corrected within Western NY State, with the Eastern Interconnect picking up the Remaining Discrepancy.

**Table 26: Range Of Relief Per Number Of BG Pumps Dropped (MVA)**

Relief On	<u>UNS-18</u>		<u>EG-14</u>		<u>#55 Line</u>	
BG Pumps Tripped	Loss of <u>EG-14</u>	Tower <u>351 &amp; 352</u>	Loss of <u>UNS-18</u> or Tower <u>UNS-18 &amp; P12</u>	Tower <u>351 &amp; 352</u>	Loss of <u>UNS-18</u> or Tower <u>UNS-18 &amp; P12</u>	Tower <u>361 &amp; 362</u>
1	32 – 38	16 – 64	3 – 37	14 – 59	12 – 34	11 – 40
2	64 – 74	30 – 112	6 – 71	26 – 112	23 – 66	21 – 78
3	93 – 109	43 – 172	9 – 103	36 – 161	34 – 97	31 – 115
4	122 – 143	56 – 216	12 – 133	46 – 209	45 – 127	41 – 151



# Maintenance Outage Screening Results (N-1-1 Analysis) Show the Value in Integrating Additional Contingencies

June 14, 2024



# N-1-1 Results

Maintenance Outage Scenario	Monitored Circuit	Contingency Name	Base Flow (MVA)	Cont Flow (MVA)	% LTE	% STE
DCT:PRINCNTWN-NSCOT 361/362	PT-NS 55	T: UNS-18 & Porter 12	1730	2287	128.3	118.6
DCT:PRINCNTWN-NSCOT 361/362	PT-NS 55	UNS-18	1730	2286	128.3	118.5
NSCOT345BS66K	PT-NS 55	T: UNS-18 & Porter 12	1680	2242	125.8	116.2
NSCOT345BS66K	PT-NS 55	UNS-18	1680	2240	125.7	116.1
NSCOT345BS99K	PT-NS 55	T: Princetown – New Scot 361/362	934	2240	125.7	116.1
DCT:PRINCNTWN-NSCOT 361/362	PT-NS 55	New Scot 345 Bus 99kK	1730	2184	122.6	113.2
NSCOT345BS99K	PT-NS 55	New Scot 345 Bus 66K	934	2114	118.7	109.6
NSCOT345BS77	UNS-18	T: Edic - Princetown 352&41	1239	1635	99.1	83.0
NSCOT345BS77	UNS-18	T: Edic - Princetown 351&40	1239	1617	98.0	82.0
NSCOT345BS77	EF24-40	T: Edic - Princetown 352&41	1205	1734	96.7	96.7
DCT:PRINCNTWN-NSCOT 361/362	UNS-18	T: Edic - Princetown 352&352	1160	1573	95.4	79.8
NSCOT345BS66K	UNS-18	T: Edic - Princetown 352&352	1142	1563	94.7	79.3
DCT:PRINCNTWN-NSCOT 361/362	UNS-18	T: Edic - Princetown 352&41	1160	1557	94.4	79.0
NSCOT345BS66K	UNS-18	T: Edic - Princetown 352&41	1142	1551	94.0	78.7
NSCOT345BS66K	UNS-18	New Scot 345 Bus 77	1142	1550	93.9	78.6
NSCOT345BS77	UNS-18	T: Edic - Princetown 352&352	1239	1543	93.5	78.3
NSCOT345BS66K	EG-14	T: Edic - Princetown 352&352	778	1432	93.1	83.1
DCT:PRINCNTWN-NSCOT 361/362	EG-14	T: Edic - Princetown 352&352	781	1431	93.1	83.0
NSCOT345BS77	UNS-18	New Scot 345 Bus 66K	1239	1535	93.1	77.9
NSCOT345BS66K	EF24-40	T: Edic - Princetown 352 & 41	1153	1665	92.9	92.9
DCT:PRINCNTWN-NSCOT 361/362	UNS-18	New Scot 345 Bus 77	1160	1532	92.9	77.7
DCT:PRINCNTWN-NSCOT 361/362	UNS-18	T: Edic - Princetown 351 & 40	1160	1526	92.5	77.4
NSCOT345BS66K	UNS-18	T: Edic - Princetown 352 & 41	1142	1518	92.0	77.0

Blenheim-Gilboa

# The Transmission System is Changing; This Exception Provides Operational Flexibility Under Challenging Conditions

June 14, 2024

# Tripping B-G Pumping Loads Remains Effective in Reducing Overloads

The steady-state analysis shows removing B-G pumping load remains an effective method for decreasing west-to-east flows from Central New York to the Capital District.



# Proposed Exception #1 To Reliability RULES: Post Contingency Flow on Marcy-New Scotland

- The post-contingency flow on the *Marcy-New Scotland 18* line is allowed to exceed its LTE rating for the loss of the *Edic-Gordon Road 14* line or the double-circuit loss of the *Edic-Princeton 351 and 352*, 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-Gordon Road 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, or the double-circuit loss of the *Edic-Princeton 351 and 352* 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 *Princeton-New Scotland 55* 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, or the double-circuit loss of the *Princeton-New Scotland 361 and 362*, by the amount of relief that can be obtained by tripping the Gilboa pumping load as a single corrective action.

NYSRC Reliability Rule C.1



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Thank  
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