

Comprehensive Reliability Planning Process (CRPP) Implementation and Scenarios

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Draft For Discussion Purposes Only

NYISO CRPP: Base Case Setup and Preliminary Analysis

- Results of Development of Base Cases for Ten Year Period
 - First Five Year Base Cases Solved, Checking on Base Case Violations and Initial Transfer Limit Results
 - Second Five Year Base Cases Non Convergent Around 2013
 - Preliminary Resource Adequacy Analysis for 2010 Completed
 - NYCA LOLE Above 1 day per year
 - Cases and Results Reviewed with Transmission Owners
 Met with Nat. Grid, NYSEG/RGE, Con Edison & LIPA
 Will Schedule to Meet/Discuss with Other TOs
 - Analysis Setups and Procedures Complete and Tested

NYISO CRPP: Base Case Setup and Preliminary Analysis, Steps To Identify Reliability Need

- Preliminary Results Indicate Reliability Needs
- MW and MVAR Shortages in Hudson Valley and Downstream
- Capacity Surplus Above Hudson Valley
- Discuss Initial Thoughts on Identification of Reliability Needs
 - Not Cost Allocation
 - Transmission vs Capacity or Combination
 - Capacity Location (ROS vs Localities)
- Will Present Table of Results at Next Meeting to Discuss RNA

NYISO CRPP: List of Proposed Scenario Analyses Reserve Margin Screens Completed Under Review

• Load Forecast Uncertainty – Base, Low, High as Required		
• Fuel Mix/Diversity/Gas Infrastructure -		
 Nuclear Retirement Scenarios Indian Point 2 & 3 Plant License Non Renewal 	S,A S	
• Coal Retirement Scenarios		
- Older Plants	S,A	
- Add Newer NY Plants and Neighbor System Retirements	S	
• TO Projects	S,A	
• Additional Resources		
- Large Remote Units	S,A	
- RPS Impacts and Demand Side Programs	S,A	
• Neighboring System Delivery Schedules		
- PAR Schedules (ABC Lines)	S,A	
- Tie Assistance and External ICAP	S,A	

NYISO CRPP: List of Proposed Scenario Analyses

• Load Forecast Uncertainty – Base, Low, High as Required Summer Peak - MW

Year	Low Base		High
2004 Actual		28,433	
2004 Weather Normalized		31,400	
2005	31,891	31,960	32,204
2006	32,242	32,400	32,762
2007	32,572	32,840	33,357
2008	32,934	33,330	33,961
2009	33,250	33,770	34,508
2010	33,576	34,200	35,057
2011	33,861	34,580	35,556
2012	34,083	34,900	35,987
2013	34,267	35,180	36,372
2014	34,413	35,420	36,709
2015	34,584	35,670	37,063

NYISO CRPP: List of Proposed Scenario Analyses

•Nuclear Retirement Scenarios

- Indian Point 2 & 3	S,A
- Plant License Non Renewal	S,A

	IP2&3	Non Renewal	Capacity
Indian Point 2	2008	2013	953
Indian Point 3	2010	2015	982
Nine Mile Point 1	IN	2009	618
Nine Mile Point 2	IN	IN	1150
Ginna	IN	2009	498
Fitzpatrick	IN	2014	826

Renewal Date From NRC Website

NYISO CRPP: List of Proposed Scenario Analyses

- Coal Retirement Scenarios
 - Older Plants

All, Cayuga and Somerset Remain

Then Cayuga and Somerset, External Retirements Still being Developed

• TO Projects

M29

• Additional Resources

Still Being Developed

- Large Remote Units
- RPS Impacts and Demand Side Programs
- Neighboring System Delivery Schedules
 - PAR Schedules (ABC Lines)
 Initially at 400/400/200, Will Test 1/3 Each in Power Flow
 - Tie Assistance and External ICAP

Up to The 2755 External ICAP