

NYISO 2009 Comprehensive Reliability Plan (CRP)

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Advisory Group Meeting
May 21, 2009
NYC

Overview:

- ◆ 2009 CRPP Background

- ◆ 2009 CRP Summary
 - ◆ *Recommendations*
 - ◆ *Risk Scenarios*
 - ◆ *Additional Observations*

- ◆ Review & Approval Process

2009 CRPP Background

- ◆ 2009 RNA identified no reliability needs for the 2009–2018 planning period, therefore, no request for solutions was issued.
- ◆ 2009 CRP was developed:
 - *RNA scenario analyses identified reliability needs for Base Case assumptions.*
 - *Need to monitor projects in the Base Case and prior year solutions (2008 CRP).*
 - *2009 CRP will be a starting point for the newly established economic planning called CARIS (May 2009) as defined in the OATT Attachment Y (FERC Order No. 890).*
- ◆ The next bi-annual planning cycle (CSPP) will occur for 2011, as set forth in the Attachment Y of the OATT. The NYISO monitors system conditions between the planning cycles and will address any newly identified reliability need in the subsequent RNA. If the reliability need was imminent, the NYISO would issue a request for a Gap solution.

2009 CRPP Background cont.

- ◆ Major reasons for no identified needs in 2009 RNA:
 - ◆ Reduced 2009 RNA Load Forecast due to EEPS
 - ◆ Increased Unit Additions
 - ◆ Lower Retirements
 - ◆ Increased SCR Forecast

2008 RNA - 2009 RNA: Load and Capacity Comparison

	2008 RNA Year 2017	2009 RNA Year 2018	Delta MW
NYCA Load	37,631	35,658	(1,973)
SCR	1,323	2,084	761
Unit Additions	455	2,169	1,714
Unit Retirements*	1,428	1,272	(156)

*The 2008 RNA totals include Russell 1-4 units, Lovett 5, Poletti, and Astoria GTs. The 2009 RNA totals include Russell 3 and 4 units, Lovett 5, Poletti, and Onondaga Cogen.

2009 CRP Summary

- ◆ The 2009 CRP includes:
 - ◆ CRP Recommendations
 - ◆ CRP Risk Scenarios
 - ◆ Additional Observations

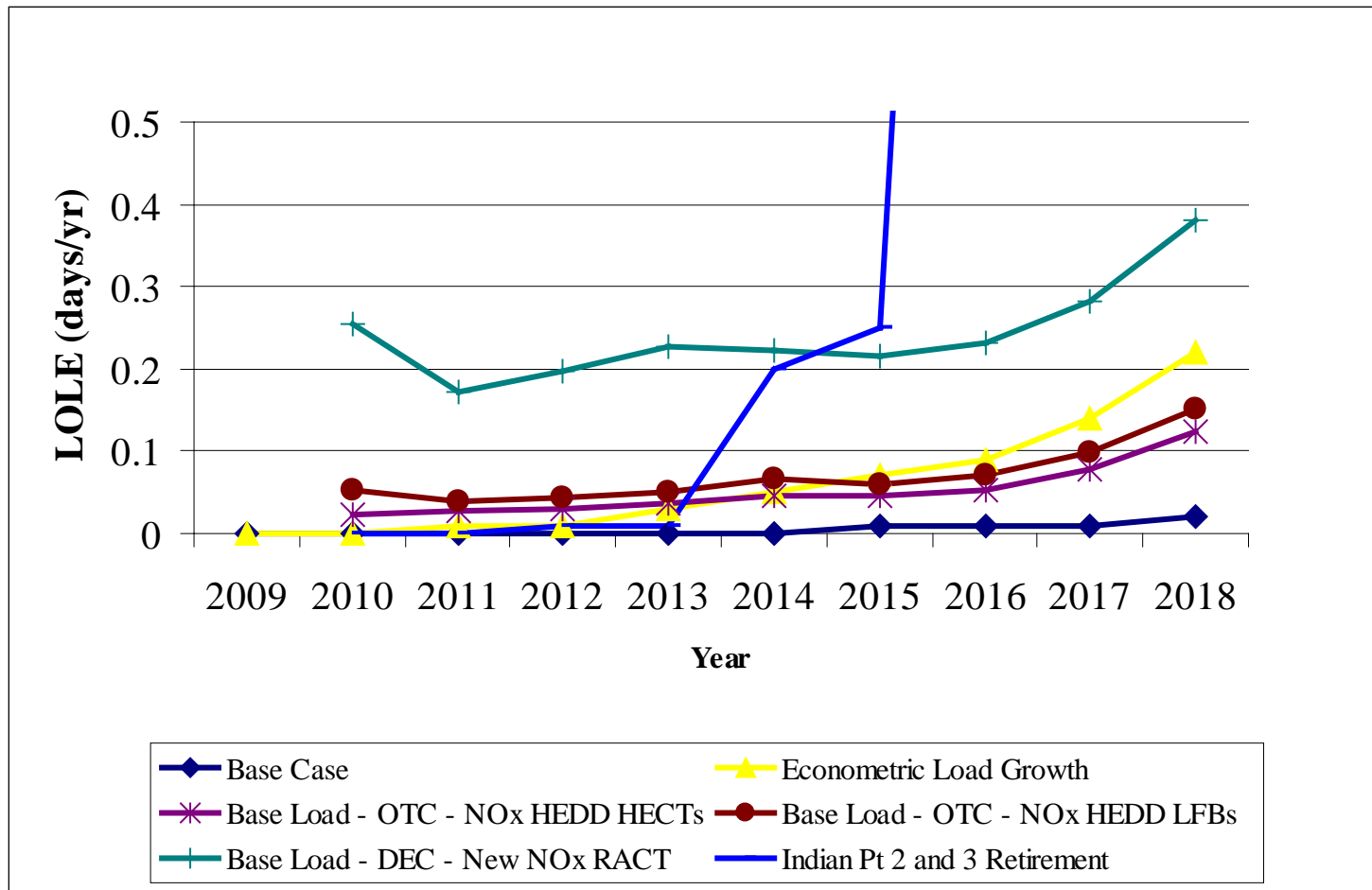
CRP Recommendations

- ◆ Monitor the accuracy of the load forecast levels as impacted by the Energy Efficiency Portfolio Standard Order (EEPS) initiative and the economic downturn.
- ◆ Monitor the implementation of planned generation additions, retirements and SCR registrations.
- ◆ Monitor the implementation of the identified TO Updates and other planned projects.
- ◆ Monitor and track the viability of the Market-Based Solutions submitted with the 2008 CRP.
- ◆ Maintain voltage performance at the bulk power system level.

CRP Risk Scenarios

- ◆ Unexpected retirement of Indian Point 2 and 3 nuclear units – *First year of need would be 2014*
- ◆ Econometric load forecast without EEPS impact – *First year of need would be 2017*
- ◆ Environmental:
 - ◆ *NOx emissions*
 - DEC - New NOx RACT – *First year of need would be 2010*
 - OTC – NOx HEDD LFBs – *First year of need would be 2017*
 - OTC – NOx HEDD HECTs – *First year of need would be 2018*
 - ◆ *CO₂ emissions* – *potential reliability risk due to RGGI impact, fuel price spread, and other environmental program compliance costs*
- ◆ Zones at Risk:
 - ◆ Reducing the capacity (up to 750 MW) in zones G,H,and J, to determine the LOLE violation – *First year of need would be 2018.*

CRP Risk Scenarios continued



Additional Observations

- ◆ Need for continued progress on initiatives to address issues and concerns with voltage performance on the bulk power system;
- ◆ The New York State Energy Plan should call for the reenactment of a comprehensive siting process for major electric generating facilities;
- ◆ Continued assessment of the fuel diversity of the power supply system and changes to the fuel supply infrastructure; and
- ◆ The NYISO should continue to participate in regional and interregional planning efforts to maintain accurate models of its neighboring systems to insure that the level of emergency assistance is available.

Review & Approval Process

- ◆ Draft CRP Report was reviewed at the ESPWG/TPAS meetings and stakeholder comments have been incorporated
- ◆ Draft Report was reviewed and approved by the OC and the MC by unanimous vote, with abstentions
- ◆ The NYISO's Independent Market Advisor reviewed the CRP and found its results to be reasonable
- ◆ The NYISO Board of Directors approved the 2009 CRP on May 19th

The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for state's bulk electricity system.

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