

2018 RNA Inclusion Rules and Scenarios

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April 5, 2018, KCC

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2018 RPP Background

- **The 2018 Reliability Planning Process (RPP) starts with the 2018 Reliability Needs Assessment (2018 RNA) followed by the Comprehensive Reliability Plan (CRP)**
 - 2018 RNA Study Period: year 1 = 2019 through year 10 = 2028
- **The RPP is part of the Comprehensive System Planning Process and is performed pursuant to the Attachment Y of the NYISO OATT; see Section 31.2.**
 - Additional implementation details, including recently updated RNA Base Case inclusion rules, are captured in the RPP Manual #26
- **2018 RNA will be based on the information from the Gold Book 2018, the 2018 FERC 715 filing (power flow cases and auxiliary files), historical data, and market participant data**

RNA Base Case and the Inclusion Rules Application

2018 RNA Base Case Development Background

- Based on the RNA Base Case, the NYISO identifies Reliability Needs of the New York State Bulk Power Transmission Facilities (BPTFs) in accordance with applicable Reliability Criteria (*i.e.*, NERC, NPCC, and NYSRC)
- Reliability evaluations consist of resource adequacy and transmission security evaluations of the New York Bulk Power Transmission Facilities over a ten-year Study Period
- **2018 RNA Base Case:**
 - For the transmission security evaluations, the NYISO uses the 2018 FERC Form 715 filing and the information from the 2018 Gold Book as a starting point for developing the base case system models with the application of the inclusion rules.
 - For the resource adequacy evaluation, the models are developed starting with prior resource adequacy models, and are updated with information from the 2018 Gold Book and historical data, with the application of the inclusion rules. Information on modeling of neighboring systems is based on the input received from the NPCC CP-8 working group.
- In January 2018, an updated Manual 26 was approved and posted with the only change being in Section 3; mainly related to the RNA Base Case development and its inclusion rules
- The inclusion rules are used as guidelines to determine what proposed projects will be included in the RNA Base Case, and also how to treat generator deactivations

2018 RNA: Inclusion Rules Application

- Proposed generation and transmission to be included – next slide contains a list of projects.
- Generation deactivations: all plant deactivations listed in the 2018 Gold Book Section IV will be out of service
 - We will also recognize Generator Deactivation Notices deemed complete by the lock-down date (*i.e.*, April 4, 2018)
- Proposed Local Transmission Owner Plans (LTP) to be included:
 - all BPTF LTPs listed in the 2018 GB Section VII as firm, with consideration for the in-service date
 - all non-BPTF LTPs listed by the TO as firm

Proposed Projects Included in the 2018 RNA Base Case

Project Types	Queue #	Project Name	SP MW	Interconnection Status
Large Generation	251	CPV Valley Energy Center	677.6	CY11
	349	Taylor Biomass	19	CY11
	395	Copenhagen Wind	79.9	CY15
	403	Bethlehem Energy Center Uprate	+72	CY15
	387	Cassadaga Wind	126	CY17
	421	Arkwright Summit	78	CY17
	444	Cricket Valley Energy Center II	1020	CY17
	461	East River 1 Uprate	+2	CY17
	462	East River 2 Uprate	+2	CY17
	467	Shoreham Solar	25	CY17
	510	Bayonne Energy Center II	+120.4	CY17
	511	Ogdensburg	79	CY17
	i/s	Nine Mile Point 2	+63.4	CY17 (CRIS only)
i/s	East River 6	+8	CY17 (CRIS only)	
Regulated Transmission Solutions	530	Western NY PPTPP - Empire State Line	n/a	TIP Facility Study
System Deliverability Upgrades (SDUs)		Leeds-Hurley SDU	n/a	SDU triggered for construction in CY11

included in the 2016 RNA

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Scenarios

2018 RNA: Scenarios Background

- RNA scenarios were discussed at the February 22 and March 13 ESPWG/TPAS meetings
- Notes on scenarios:
 - The scenarios results are for information only
 - The scenarios will be built off the preliminary (“1st pass”) RNA Base Case

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2018 RNA: Final Scenarios

	Scenario	Type of Assessments
1	Econometric Load Forecast: <i>Baseline load forecast without the Energy Efficiency Savings and Behind the Meter Generation</i>	Resource Adequacy
2	Zonal Capacity at Risk: <i>Identification of the maximum level of zonal MW “perfect” capacity¹ that can be removed without causing NYCA LOLE violations, or exceeding the zonal capacity</i>	Resource Adequacy
3	AC Transmission Goal <i>- contingent upon finding needs in the RNA Preliminary (1st pass”) Base Case</i>	Transmission Security and Resource Adequacy

1. "Perfect" capacity is capacity that is not derated (e.g., due to ambient temperature or unit unavailability) and not tested for transmission security or interface impacts

Next Steps

- April 18 ESPWG/TPAS
- June 22 ESPWG/TPAS: Present preliminary (“1st pass”) RNA results
- June 28 ESPWG and/or July 2 TPAS: Stakeholders’ presentations of projects updates, as related to the identified preliminary Reliability Needs, if any
- July 6, 2018: lock down assumptions for final (“2nd pass”) RNA
- July 19, Aug 8, Aug 22 ESPWG: review draft RNA reports
- Aug 22 ESPWG/TPAS: recommendation for approval of the 2018 RNA
- September 12 OC: Market Monitoring Unit review and OC vote
- September 28 MC: vote
- October: NYISO Board approval

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Questions?

We are here to help. Let us know if we can add anything.

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- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policy makers, stakeholders and investors in the power system



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