

2020 RNA Transmission Security Status Quo Scenario Results

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Scenarios Background

- One of the objectives of the Reliability Planning Process is to identify, through the development of appropriate scenarios, factors and issues that might adversely impact the reliability of the Bulk Power Transmission Facilities (BPTF)
- This presentation summarizes the transmission security results for the status quo scenario
- Scenarios models are variations of the 2020 RNA Base Cases, unless otherwise identified
- Scenarios are provided for information only (*i.e.*, do not lead to Reliability Needs identification or mitigation)

Transmission Security Status-quo Scenario

Status-quo Scenario Assumptions

■ Major Assumptions:

- Load is the 2020 Gold Book statewide coincident peak for 2030
- Removal of all the proposed transmission and generation projects that met 2020 RNA 1st pass Base Case Inclusion Rules
 - presented at June 19 ESPWG/TPAS
- Removal of generators that require modification to comply with DEC's Peaker Rule
 - 2023: 997 MW in Zone K, 69 MW in Zone G, in 2023
 - 2025: additional 235 MW in Zone K

■ This analysis includes steady state thermal and voltage evaluation under N-0, N-1, and N-1-1 conditions

“Status quo” Scenario Transmission Security Steady State Results

- No steady state voltage Reliability Criteria violations identified on the BPTF for N-0, N-1, or N-1-1 conditions
- No thermal Reliability Criteria violations for N-0 or N-1 on the BPTF
 - Thermal Reliability Criteria violations are observed for N-1-1 as summarized on the following slide

“Status quo” Scenario Transmission Security Steady State N-1-1 Results

Zone	Owner	Circuit	Observed in RNA Base Results
G	O&R	Chester-Shoemaker 138 kV (27)	
G	O&R	Chester-Sugarloaf 138 kV (28)	
G	O&R	Shoemaker-Shoemaker Tap (29)	
G	O&R	Middletown Tap/Shoemaker Tap 345/138 kV	
I/J	ConEd	Sprainbrook- W49th St 345 kV (51)	X
I/J	ConEd	Sprainbrook- W49th St 345 kV (52)	X
I/J	ConEd	Dunwoodie-Mott Haven 345 kV (71)	X
I/J	ConEd	Dunwoodie-Mott Haven 345 kV (72)	X
I/J	ConEd	Sprainbrook/Dunwoodie 345/138 kV (N7)	X
I/J	ConEd	Sprainbrook/Dunwoodie 345/138 kV (S6)	X
I/J	ConEd	Dunwoodie 345/138 kV (W73)	X
J	ConEd	Mott Haven-Rainey West 345 kV (Q12)	X
J	ConEd	Mott Haven-Rainey East 345 kV (Q11)	X
J	ConEd	Goethals-Gowanus 345 kV (26)	X
J	ConEd	Goethals-Gowanus 345kV (25)	X
J	ConEd	Farragut 345/138 kV (TX8)	
J	ConEd	Farragut 345/138 kV (TX9)	

Questions?

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

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

