

Updated FitzPatrick Deactivation Assumptions

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ESPWG

Background

- ◆ **On February 11, 2016, the NYISO issued an assessment of the deactivation of FitzPatrick that found a statewide resource adequacy deficiency that constituted a Reliability Need beginning in 2019.**
- ◆ **The NYISO subsequently undertook to update that analysis to reflect an updated load forecast. As further detailed below, this updated analysis does not identify a Reliability Need for the 2016-2020 near term period.**
- ◆ **This presentation captures the major assumptions comparison of the initial Fitz study with the 2014 Comprehensive Reliability Planning (CRP) study, updated to reflect the load forecast change reflected in the revised FitzPatrick study.**

Major Assumption Differences Between FitzPatrick Deactivation Assessment and 2014 CRP for year 2020 Updated for the Revised FitzPatrick Study

Capacity Resource	Deactivation Date or Action	Zone	Initial Fitz Study - Changes from CRP (MW)	Initial Fitz Study Cumulative (MW)	Revised Fitz Study - Changes from Initial Fitz (MW)	Revised Fitz Study Cumulative (MW)
			DMNC	DMNC	DMNC	DMNC
Dunkirk 1, 3, 4 Conversion	On hold, not included	A	-435	-435	no change	
Huntley 67 & 68 Deactivation	Mar. 1, 2016	A	-376.9	-812		
FitzPatrick Deactivation	Jan. 1, 2017	C	-836.8	-1,649		
Ginna Deactivation	April. 1, 2017	B	-581.4	-2,230		
Cayuga 1 & 2 Deactivation	Not in CRP	C	0	-2,230		
CPV	Mar. 1, 2017	G	677.6	-1,553		
2015 GB DMNC and SCR Totals	Updated	All	-255	-1,808		
Misc Deactivations ¹	New since 2015 Gold Book	A,J	-187.8	-1,995		
Total Change in Capacity Resources				-1,995		
Load and Other Changes						
Year 2020 Load Difference ²		All	794	-1,201	no change	
Net Purchases and Sales		All	-675	-1,876		
SCR/EDRP		All	120	-1,756		
Intermittent Resources		All	-2	-1,758		
Incremental Change Due to the Updated Load Forecast from 2016 Gold Book						
Additional Year 2020 Load Difference ³					843	-915

¹ Niagara Bio-Gen, Astoria GTs, Ravenswood GTs

² 2015 Gold Book baseline summer coincident peak load forecast for year 2020 is 34,309 MW with 553 MW solar added back in for a total summer coincident peak Load of 34,862 MW vs 2014 Gold Book Load of 35,656 MW, for a delta of 794 MW

³ 2016 Gold Book baseline summer coincident peak load forecast for year 2020 is 33,501 MW with 518MW solar added back in for a total summer coincident peak load of 34,019 MW vs comparable 2015 value of 34,862 MW, for a delta of 843 MW

Changes in Topology Assumptions Impacting LOLE

- No changes for the revised FitzPatrick study as compared with the initial study;
- The table shows comparison with the 2014 CRP assumptions.

Topology Changes

Interface	2014 CRP		Fitz Deactivation		Delta	
	Forward	Reverse	Forward	Reverse	Forward	Reverse
Dysinger East	2900/2600/2150/ 1525/900		1650		-1250	
Zone A Group	3425/2825/2275/ 1525/700		1800		-1625	
CPV&E to G Group	N/A		2275		Added Grouping to account for CPV impact on UPNY-SENY	
UPNY-SENY	5600		5600		CPV to G added	
A Line + VFT	815/600		815/700/500/ 200		-400	
PJM-SENY Group	3075		2000		-1075	

Summary of Updates and Results

Resources obtained from the 2015 Gold Book and 2016 IRM report, and 2016 Gold Book

MW Source	Zones A-F	Zones G-J	Zone J	Zone K	Total NYCA
Total Summer Coincident Peak load by Zone GB 2015 - initial FitzPatrick Assessment	12,457	17,067	12,356	5,505	34,862
Total Summer Coincident Peak load by Zone GB 2016 - revised FitzPatrick Assessment	12,053	16,404	11,829	5,562	34,019
Generation Capacity	16,867	15,392	9,572	5,260	37,519
SCR	719	467	386	68	1,254

Initial FitzPatrick Study Results

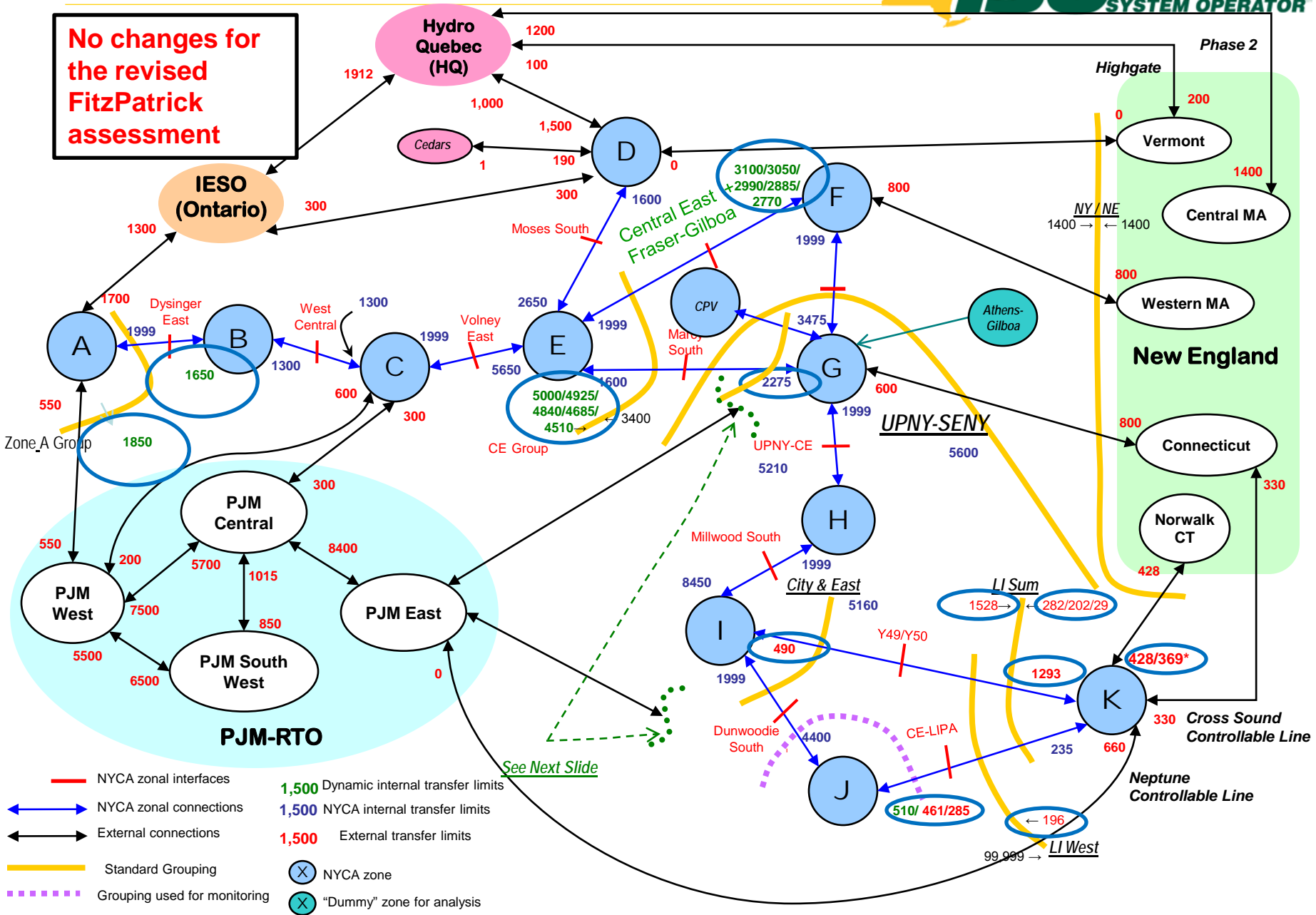
Year	Base LOLE	Statewide Resource Need
2019	0.1064	125
2020	0.1177	325

Revised FitzPatrick Results

No Statewide Resource Need

Transmission System Representation

No changes for the revised FitzPatrick assessment

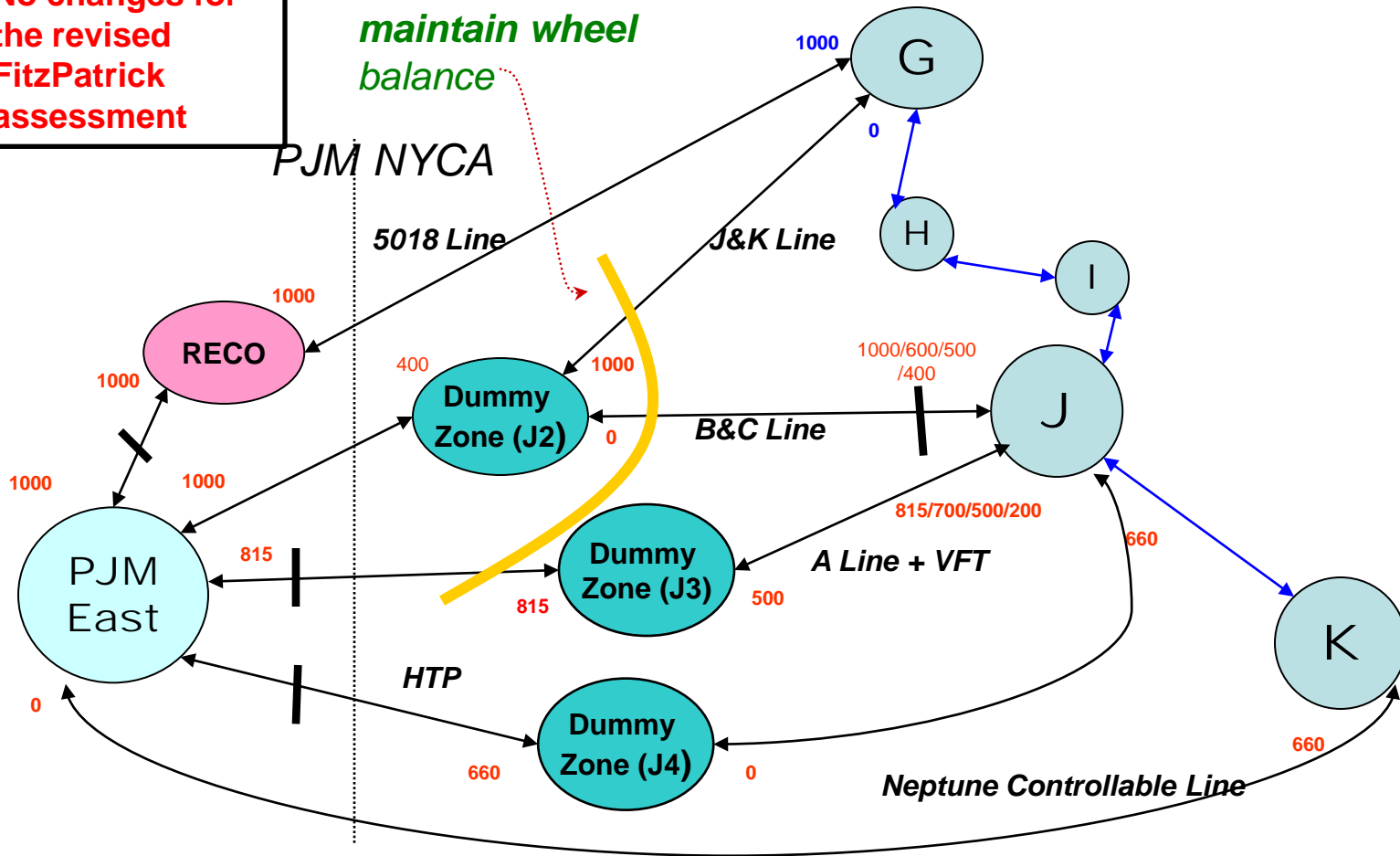


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Recommended PJM-SENY MARS Model

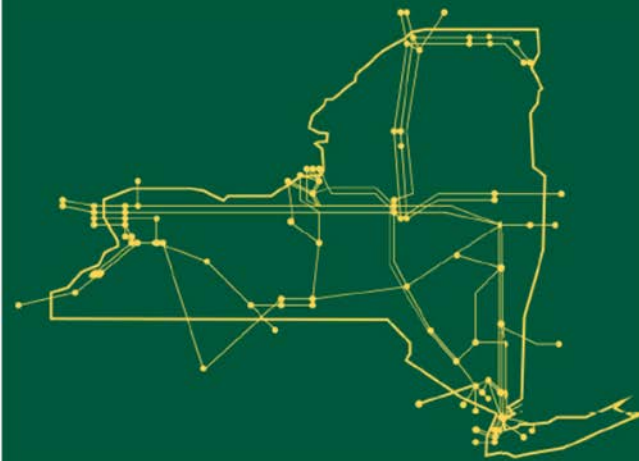
No changes for the revised FitzPatrick assessment

Joint interface to maintain wheel balance



$$(PJM\ East\ to\ RECO) + (J2\ to\ J) + (PJM\ East\ to\ J3) + (PJM\ East\ to\ J4) = 2000\ MW$$

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