

AC Transmission Public Policy Transmission Planning Report: Updates (**Revised**)

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ESPWG/TPAS

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Agenda

- **Review Process**
- **EMF Updates**

Review Process

- March 30, 2018: Posted draft SECO report and preliminary evaluation results
- April 5, 2018: ESPWG/TPAS, summary of the review schedule
- April 6, 2018: Reviewed results with all developers in the same meeting
- April 19, 2018: Reviewed results with all developers in the same meeting
- April 30, 2018: ESPWG/TPAS
- May 10, 2018: ESPWG/TPAS
- May 22, 2018: ESPWG/TPAS
- June 1, 2018: ESPWG/TPAS
- **June 14, 2018: ESPWG/TPAS**
- **June 20, 2018: Business Issue Committee (advisory vote)**
- **June 21, 2018: Operating Committee (for information, not required by Tariff)**
- **June 26, 2018: Special Management Committee (advisory vote)**
- **July 16, 2018: Board review of the report**

Comment and Review Process

- The written comments submitted to the BIC will be provided to the MC and the Board unless revised comments are submitted. *Parties do not have to resubmit their comments after the MC.*
- If you wish to revise your written comments to the BIC, please submit revised comments to PublicPolicyPlanningMailbox@nyiso.com by close of business (5:00 p.m. EST) June 28, 2018.
- Written comments and the results of the advisory votes will be submitted to the Board and posted by the NYISO.
- An advisory vote of the MC is not an action appealable to the Board. As in WNY, the NYISO is considering an appeal-like process for Market Participants and interested parties to be heard directly by the Board on the AC Transmission Public Policy Transmission Planning Report.

EMF

- It is estimated that the existing transmission corridor between Princetown and New Scotland currently exceeds the PSC standards for EMF levels.
- Developers provided EMF calculations with their AC Transmission projects. Based on developers' EMF calculations:
 - With T018, T021, T025, T026, T028, and T031, there would still be EMF standard exceedances between Princetown and New Scotland.
 - With T027, there would be no EMF standard exceedance.
- **Initial review by SECO**
 - Calculations provided by developers appeared reasonable with good correlation for similar arrangements.
 - Calculations provided by the developers are preliminary in nature and will have to be confirmed during detailed engineering design.

EMF

- **Independent EMF calculations by SECO**
 - NAT/NYPA provided parameter corrections for T027 EMF calculations
 - SECO and its contractor performed independent EMF calculations, and identified EMF exceedance for T027 as well.
 - Updated EMF results are shown in next slide.
- **The updated EMF results indicate that T027 requires the least easement to mitigate EMF among the Segment A proposals. Therefore, the results do not change the project ranking and selection recommendation.**

Project ID	Developer	Sector	Line Sections			EMF				
			Voltage (kV)	Length (miles)	Corridor Width (ft.)	Estimated @ Edge of ROW			Estimated Additional	
						Max. Electric Field (kV/m)	Max. Magnetic Field (mG)	Width (ft.)	Area (Acres)	
T018	National Grid/Transco	Princetown Jct. to New Scotland	345	6.3	370	1.9	94.6	10	7.6	
			345	4.3	590	1.9	59.2	10	5.2	
			345/115	2.5	450	1.9	83.4	10	3.0	
			345	6.6	590	1.9	59.2	10	8.0	
				19.7						23.9
T021	NextEra	Princetown Jct. to New Scotland	345	6.5	370	1.7	140.0	10	7.9	
			345	4.3	590	1.8	150.0	10	5.2	
			345/115	2.5	450	1.8	150.0	10	3.0	
			345	6.6	590	1.8	170.0	10	8.0	
				19.9						24.1
T025	NAT/NYPA	Marcy to Knickerbocker	765	0.4	470	0.3	50.0		0.0	
			765	1.3	675	2.7	125.0	25	4.0	
			765	33.7	360-380	-	-	23	93.8	
			765	2.0	570	2.6	161.0	23	5.5	
			765	27.7	345-380	-	-	23	77.2	
			765	6.3	370	2.7	212.0	25	19.1	
			765	4.3	590	2.6	148.0	23	11.9	
			765	2.5	450	2.7	188.0	25	7.6	
			765	6.1	590	2.6	148.0	23	17.1	
			765	1.0	615	1.4	119.0		0.0	
			765	1.9	615	0.2	27.0		0.0	
			765	1.1	400	0.5	232.0		0.0	
			765	1.5	400	1.9	100.0	9	1.6	
			765	5.1	250	1.7	92.0	8	5.0	
			765	3.0	750	0.4	187.0		0.0	
	97.9						242.9			
T026 & T028	NAT/NYPA	Princetown Jct. to New Scotland	345	6.3	370	1.8	208.0	10	7.6	
			345	4.3	590	1.9	150.0	10	5.2	
			345/115	2.5	450	1.9	188.0	10	3.0	
			345	6.6	590	1.8	185.0	10	8.0	
				19.7						23.9
T027	NAT/NYPA	Princetown Jct. to New Scotland	345	6.3	370	1.2	113.0		0.0	
			345	4.3	590	1.8	162.0	10	5.2	
			345	2.5	450	1.8	155.0	10	3.0	
			345	6.6	590	1.8	162.0	10	8.0	
				19.7						16.2
T031	ITC	Princetown Jct. to New Scotland	345	6.3	370	<1.0	<100	10	7.6	
			345	4.3	590	-	-	10	5.2	
			345/115	2.5	450	-	-	10	3.0	
			345	6.6	590	-	-	10	8.0	
	19.7						23.9			

Questions?

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

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- 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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