



2018 RTP Update

November 2018
RPG Meeting

Agenda

- ❑ Status update
- ❑ Preliminary reliability projects of 2018 RTP
- ❑ Next steps

2018 RTP Status Update

- ❑ Initial start cases for EC, NNC and SSC were posted on MIS Secure on May 4, 2018. Initial start cases for WFW were posted on MIS Secure July 11, 2018.
- ❑ Single-event (N-1) secure cases for EC, NNC and SSC were posted on MIS Secure on July 5, 2018. Single-event (N-1) secure cases for WFW and MIN were posted on MIS Secure on September 4, 2018.
- ❑ Economic analysis start cases were posted on MIS Secure on September 24, 2018.
- ❑ Preliminary final reliability cases posted on MIS Secure on October 1, 2018.

2018 RTP Status Update cont'd

□ Currently in progress

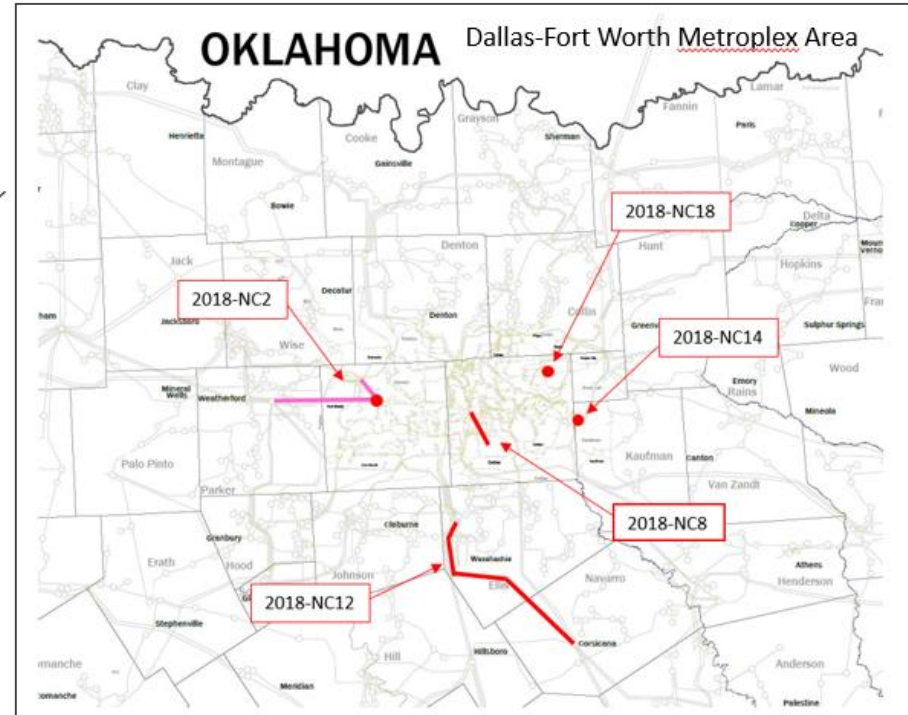
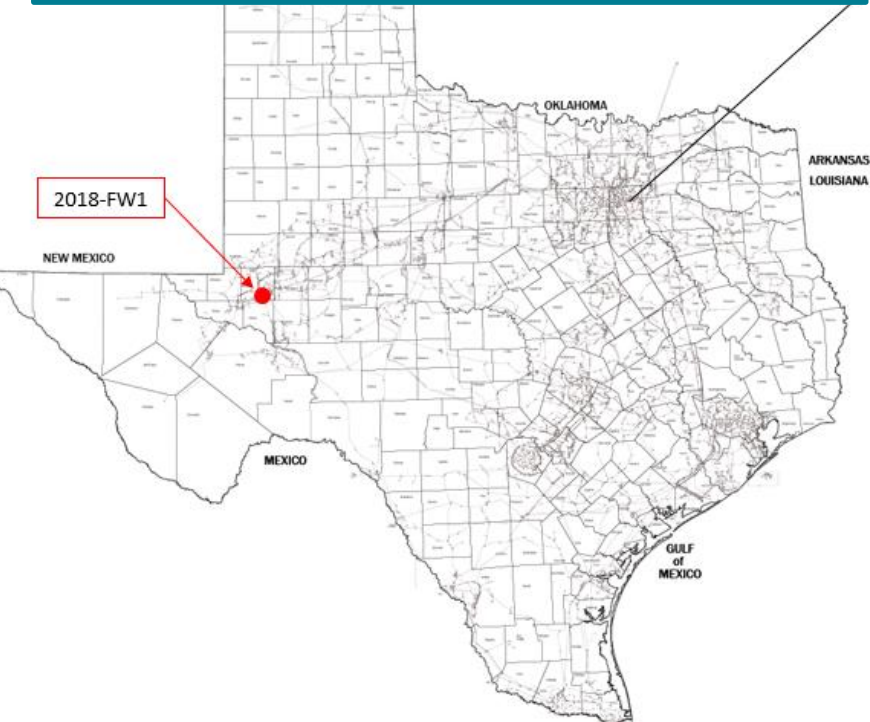
- TSP review of No Wind and No Hydro sensitivity projects
- WFW higher load sensitivity analysis
- TSP/RE review of short circuit study results
- Multiple elements outage and cascading analysis
- Economic analysis

Noteworthy 2018 RTP Projects (Preliminary Findings)

- ❑ New 345/138-kV transformer (second transformer) at McCree Station in Dallas County (Project Index: 2018-NC18)
- ❑ New 345/138-kV transformer at Saginaw Station in Tarrant County, and new 345-kV lines from Saginaw Station (Project Index: 2018-NC2)
- ❑ New 345/138-kV transformer (second transformer) at Forney Station in Kaufman County (Project Index: 2018-NC14)
- ❑ New 345/138-kV transformer (second transformer) at Moss Station in Ector County (Project Index: 2018-FW1)
- ❑ Upgrade of the Norwood to Cedar Hill 345-kV line in Dallas County (Project Index: 2018-NC8)
- ❑ Upgrade of the Venus to Navarro 345-kV line in Ellis County (Project Index: 2018-NC12)

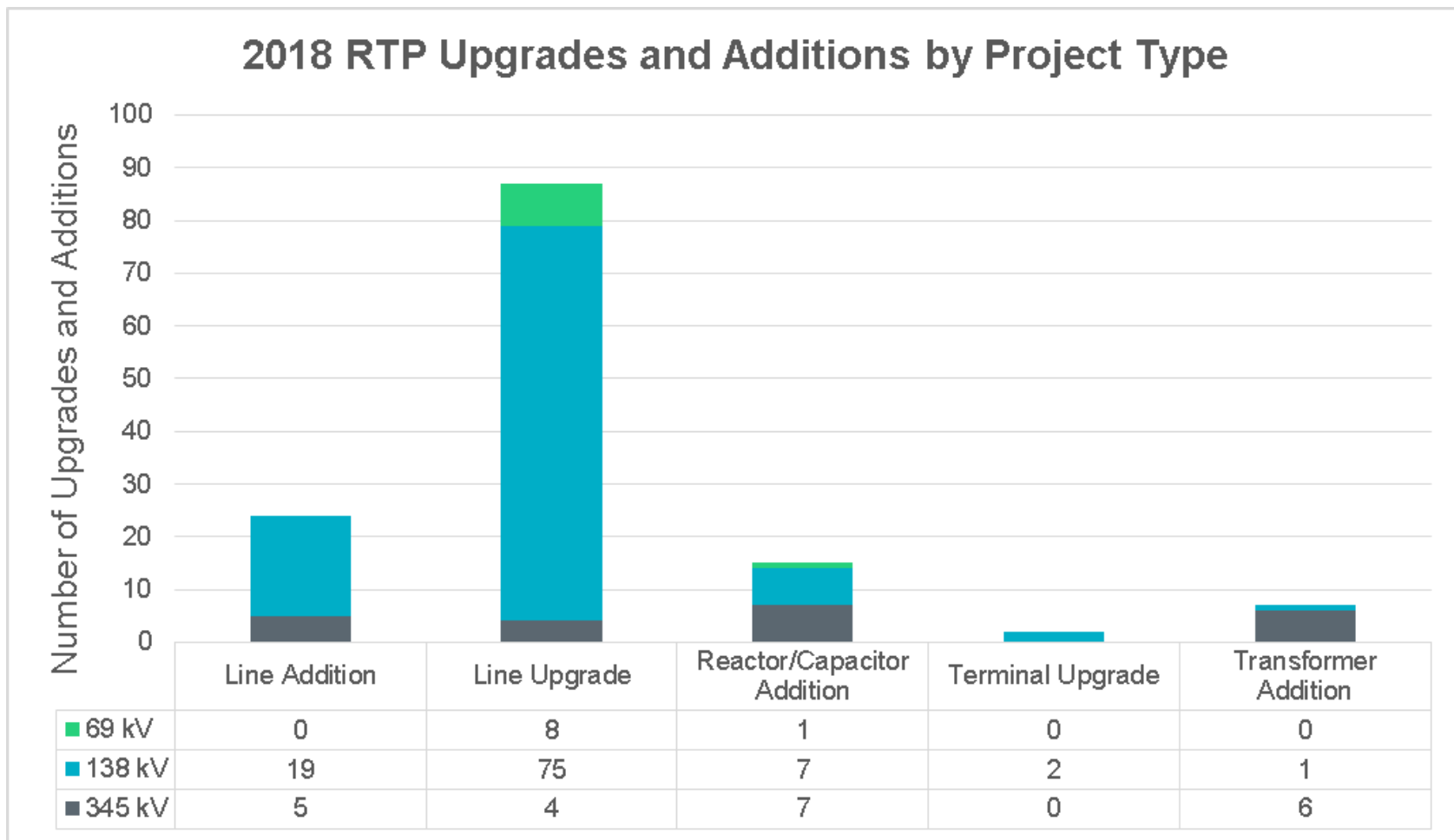
Noteworthy 2018 RTP Projects Location

- 2018-NC18 : 345/138-kV auto at McCree Station in Dallas County
- 2018-NC2: 345/138-kV auto at Saginaw Station in Tarrant County, and new 345-kV lines from Saginaw Station
- 2018-NC14: 345/138-kV auto at Forney Station in Kaufman County
- 2018-FW1: 345/138-kV auto at Moss Station in Ector County
- 2018-NC8: Upgrade of the Norwood to Cedar Hill 345-kV line in Dallas County
- 2018-NC12: Upgrade of the Venus to Navarro 345-kV line in Ellis County



Legend	
	New 345/138 kV Transformer
	New 345 kV Line
	Upgrade 345 kV Line

2018 RTP Upgrades Summary by Project Type (Preliminary Findings)



*The chart is by line segments, and may be part of longer breaker-to-breaker circuit.

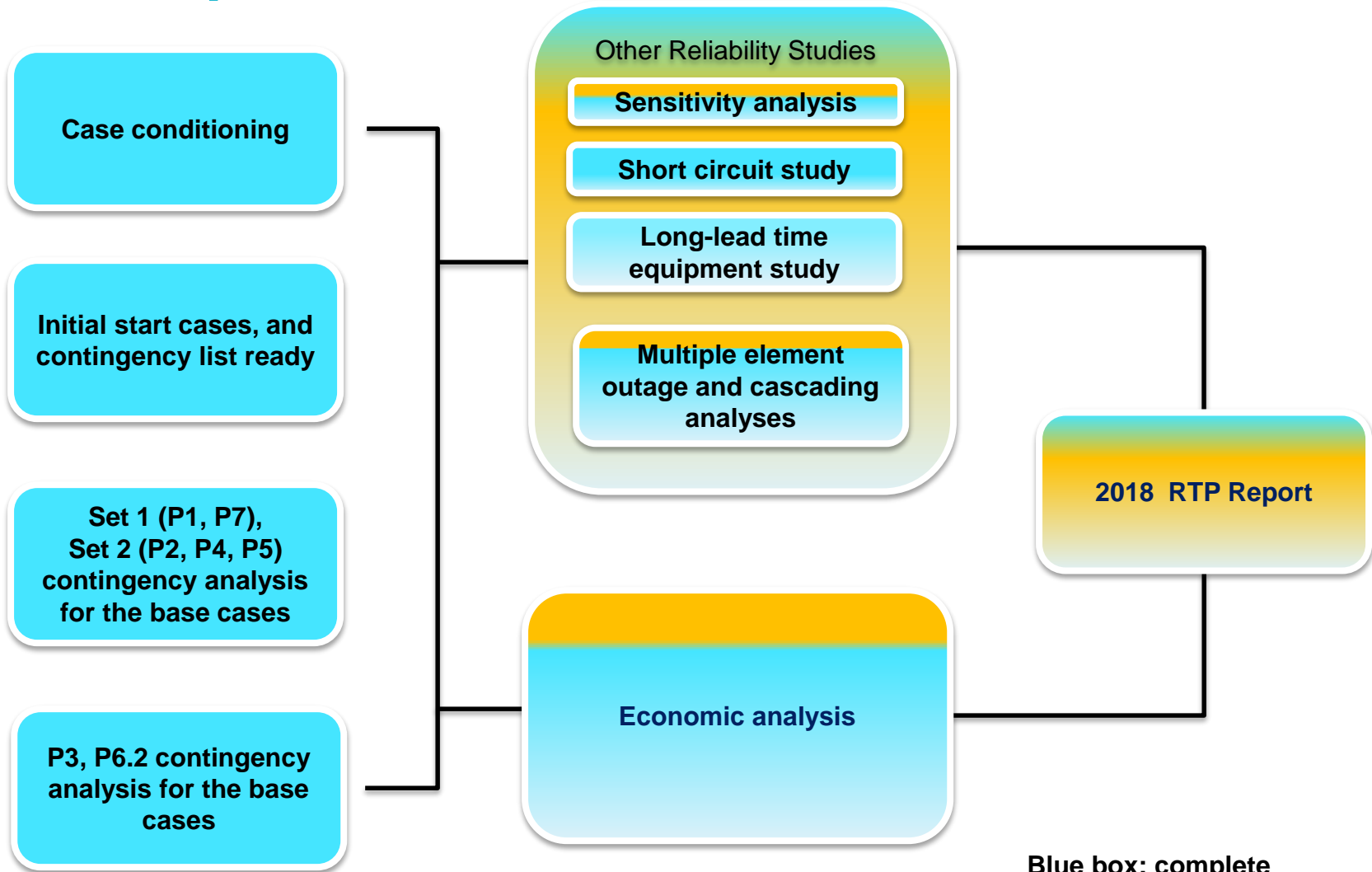
Top Congested Elements Seen in Economic Analysis (update)

Map Index	Projected Constraining Element	2020 Congestion	2023 Congestion	
1	South Texas Project - Jones Creek 345 kV Line		-	
2	Kendall-Bergheim 345 kV Line			
3	Panhandle Export Limit			
4	Oasis - W A Parish 345 kV Line		-	
5	South Texas Project - Hillje 345 kV line	-		
6	Jones Street-Lakepointe 138 kV Line			
7	Big Brown - Jewett 345 kV Line			
8	Lewisville Switch-Jones Street 138 kV Line			
9	Cagnon - Kendall 345 kV Line			
10	Carterville-Eisl Tap 138 kV Line		-	
11	Rogershill - Bosque Switch 138 kV Line			
12	Bergheim 345/138 kV XFMR			
13	Dupont Switch - Dupont PP1 138 kV Line			
14	General Tire Switch - SW Portland Tap 138 kV Line		-	
15	Champlin - Weil Trac 138 kV Line			
16	Tilden Sub - Fowlerton 138 kV Line			
17	Milo - Laredo VFT North 138 kV line			
Legend		Low	Med	High

Economic Projects Studied and Savings

Upgrades	2020 Savings (M\$)	2023 Savings (M\$)
Kendall - Bergheim 345 kV line upgrade Build new Kendall - Hill Country 345 kV line Add a new 345/138 kV Bergheim XFMR Upgrade Bergheim - Devil Hill 138 kV line	19.3	22.34
Upgrade Lewisville - Jones Street - Lakepointe TNP 138 kV line	13.3	0.96
Upgrade Champlin - Weil Trac 138 kV line	14.23	3.11

Next Steps



Blue box: complete
Yellow box: in progress

Question

