March 3, 2016 REVISION TO DEFINITION OF TRANSMISSION OPERATOR NOGRR 149 (APPEAL)

Presentation to ERCOT Reliability and Operations Task Force (ROS)



NODAL OPERATING GUIDES - SECTION 1, SUBSECTION 1.4T (DEFINITION OF TRANSMISSION OPERATOR)

EXISTING DEFINITION

TRANSMISSION OPERATOR (TO)

Entity responsible for the safe and reliable operation of its own portion or designated portion of the ERCOT Transmission System.

Every Transmission Service Provider (TSP) or Distribution Service Provider (DSP) in the ERCOT Region shall either register as a TO, or designate a TO as its representative and with the authority to act on its behalf.

PROPOSED DEFINITION

TRANSMISSION OPERATOR (TO)

Entity responsible for the safe and reliable operation of its own portion or designated portion of the ERCOT Transmission System.

Every Transmission Service Provider (TSP) in the ERCOT Region shall either register as a TO, or designate a TO as its representative and with the authority to act on its behalf.

Every Distribution Service Provider (DSP) in the ERCOT Region with an annual peak load exceeding 25 MW shall either register as a TO, or designate a TO as its representative and with the authority to act on its behalf.

Every DSP in the ERCOT Region with an annual Peak load of 25 MW and below which is required by North American Electric Reliability Corporation (NERC) to be registered as a distribution provider, or any other applicable NERC registration, shall either register as a TO, or designate a TO as its representative and with the authority to act on its behalf.



SPPG PARTICIPATING MOU'S

 City of Seymour 	 City of Bridgeport
 City of Robstown 	 City of Sanger
 City of Farmersville 	 City of Hearne



DSP SERVICE CHARACTERISTICS – SUMMER PEAK LOAD (2015)

 City of Seymour - 9 MW 	City of Bridgeport - 14 MW
 City of Robstown - 21 MW 	City of Sanger - 13 MW
City of Farmersville - 9 MW	City of Hearne - 12 MW

Average Size – 13 MW



DSP SERVICE CHARACTERISTICS – RETAIL REVENUE METERS (2015)

City of Seymour - 1,600	 City of Bridgeport - 2,250
City of Robstown - 4,500	 City of Sanger - 2,200
 City of Farmersville - 1,400 	 City of Hearne - 2,500

Average Number of Meters – 2,400



DSP SERVICE CHARACTERISTICS – FACILITIES OWNED

	Generation Owned	Transmission Owned	Distribution Substation Owner	Distribution Feeder Breaker Owner	Distribution Feeder Breaker Operator	
Seymour	None	None	None Brazos City (8)		City	
Robstown	None	None	City City (9)		City	
Farmersville	None	None	Sharyland Sharyland (2)		Sharyland	
Bridgeport	None	None	Brazos	Brazos (3)	City	
Sanger	None	None	Brazos Brazos (4)		City	
Hearne	None	None	City	City City (3)		



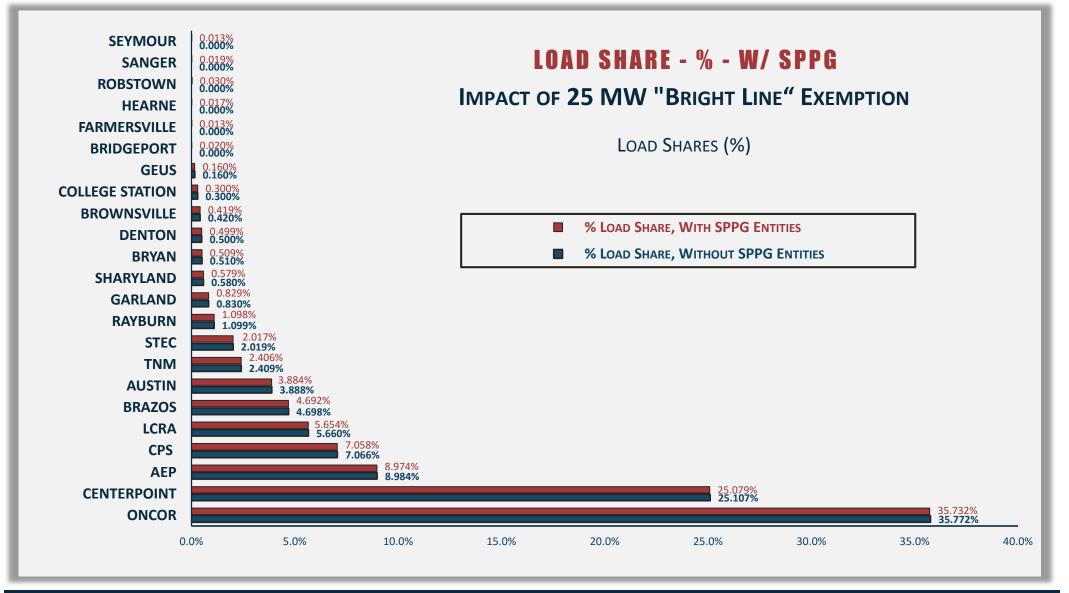
DSP SERVICE CHARACTERISTICS – WHOLESALE POWER SUPPLIER AND POI

	Wholesale Power Supplier	Transmission Service Provider (Point of Interconnection)			
Seymour	AEP	BEPC			
Robstown	AEP	AEP			
Farmersville	Garland P&L	Sharyland Utilities			
Bridgeport	AEP	BEPC			
Sanger	AEP	BEPC			
Hearne	AEP	BEPC			



Impact of SPPG on % Load Shed

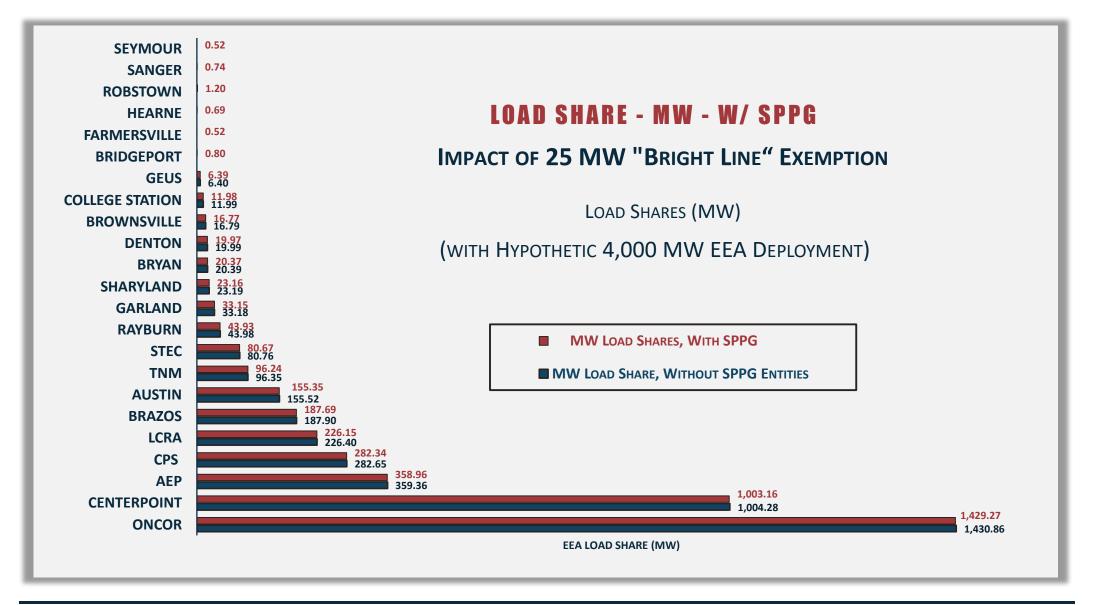






Impact of SPPG on MW Load Shed

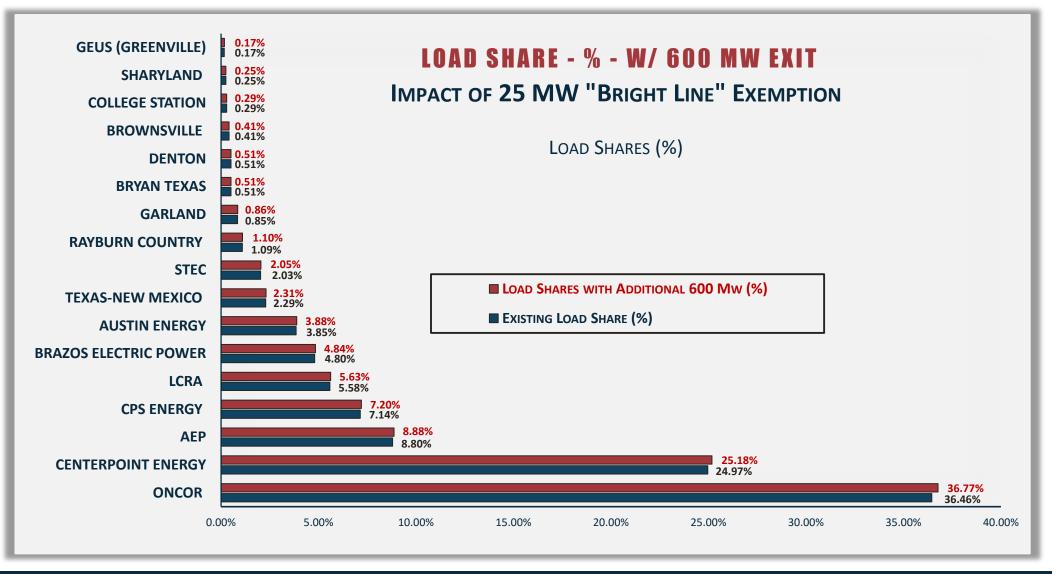






Load Shares [%] After Loss of 600 MW Of Exempted DSP Load

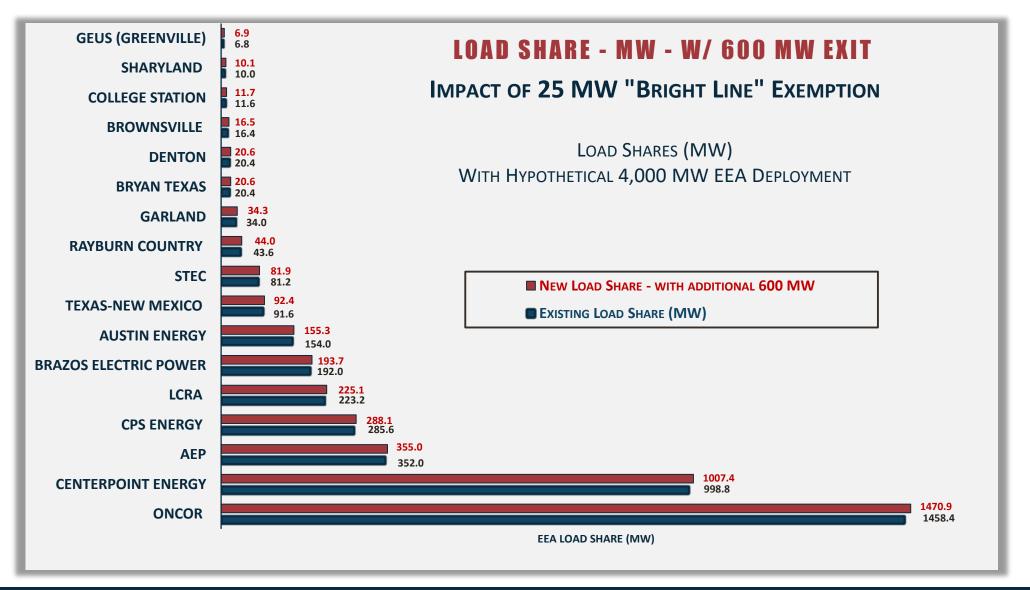






Load Shares (MW) After Loss of 600 MW Of Exempted DSP Load







OPERATING GUIDES – SECTION 2.6.1 (1) – AUTOMATIC FIRM LOAD SHEDDING

Frequency Threshold	Load Relief Obligation	Bridgeport	Farmersville	Hearne	Robstown	Sanger	Seymour	Total UFLS Obligation (MW)
59.3 HZ	5% of the to ERCOT System Load	.70 MW	.44 MW	.60 MW	1.05 MW	.64 MW	.45 MW	4.48 MW
58.9 HZ	An additional 10% of the ERCOT System Load	2.10 MW	1.32 MW	1.80 MW	3.15 MW	1.91 MW	1.35 MW	13.44 MW
58.5 HZ	An additional 10% of the ERCOT System Load	3.50 MW	2.20 MW	3.00 MW	5.25 MW	3.18 MW	2.25 MW	22.38 MW
	SPPG Individual Load Share Obligation	3.50 MW	2.20 MW	3.00 MW	5.25 MW	3.18 MW	2.25 MW	



ANALYSIS OF POTENTIAL EEA AND UFLS OBLIGATIONS - CONCLUSIONS

- Individual SPPG Load Shares for UFLS are <u>VERY Small</u>
- Individual SPPG Load Shares for EEA are <u>VERY, VERY Small</u>

QUESTION RAISED: "DOES SIZE MATTER"?



CONCLUSIONS

- The six SPPG entities' load shares would add low to no value to an ERCOT emergency operations event.
- The load shares of the fifty-three ERCOT entities with peak loads of 25 MW or less will be low value to an ERCOT emergency operations event.
- The reallocation of the aggregate 600 MW representing the fifty-three ERCOT entities with peak loads of 25 MW or less does not appear to place an unreasonable additional burden on existing TSPs.
- The prospect of exempting up to fifty-three ERCOT entities from TO responsibilities would arguably have a positive impact on ERCOT reliability and efficient operations by virtue of having fewer entities to manage during an emergency operations event and less non-emergency recurring training, drills, etc.



QUESTIONS?

