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2015 Network Operating Committee

November 19, 2015






Agenda

- **2015 Year in Review**
- **TLR Log Review**
- **Pseudo-Tie's**
  - *WebRegistry*
  - *Implementing New Ties*
- **LSE Deregistration**
- **Open Discussion**

2015: Year in Review

- **In 2015, the BA and TOP successful passed a NERC 693 and CIP audit with no findings!**

- **Lots of construction and commissioning while minimizing operational impacts:**
  - *Cane Run 7*
  - *Matanzas 161kV Interconnection*
  - *Kenzig Road Interconnections*
  - *North Princeton Reactor Installation*
  - *Green River retirement*

- **At the operation center, successfully trained operators to prepare for future retirements**

TLR Log Review

- **Overall, activity has been slightly less impactful compared to prior years.**

- **Key flowgates triggering TLR activity and impacting the LGEE Balancing Authority Area include:**
  - ***1023:*** *Volunteer – Phipps Bend 500kV FLO Jefferson – Rockport 765kV*
  - ***1025****: Trimble County – Clifty Creek 345kV FLO Rockport – Jefferson 765kV*
  - ***20993****: Paradise – Big Rivers Tap 161kV FLO Wilson #1*

Pseudo-Ties

- **What is a Pseudo-Tie?**
  - *A way to effectively transfer load or generation connected within another entities Balancing Authority Area (BAA) to another Balancing Authority Area*
  - *Pseudo-ties are not networked on the customer side*

- **How is it used today in the LG&E/KU BAA?**
  - *Today, we operate pseudo-ties to meter loads into and out of the BAA*
  - *Metering is important, as these are inputs into the Area Control Error (ACE) calculation*

Pseudo-Ties: INT-004-3.1

- **INT-004-3.1 R3 (effective 1/1/2016) requires:**
  - *Each Balancing Authority shall only implement or operate a Pseudo-Tie that is included in the NAESB Electric Industry Registry publication in order to support congestion management procedures.*

- **OATI webRegistry has since been developed to aid in the process of registering these ties**

- **In order to meet compliance, LG&E/KU BA is requesting each BA member operating a pseudo-tie register them in webRegistry prior to December 15, 2015.**

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webRegistry

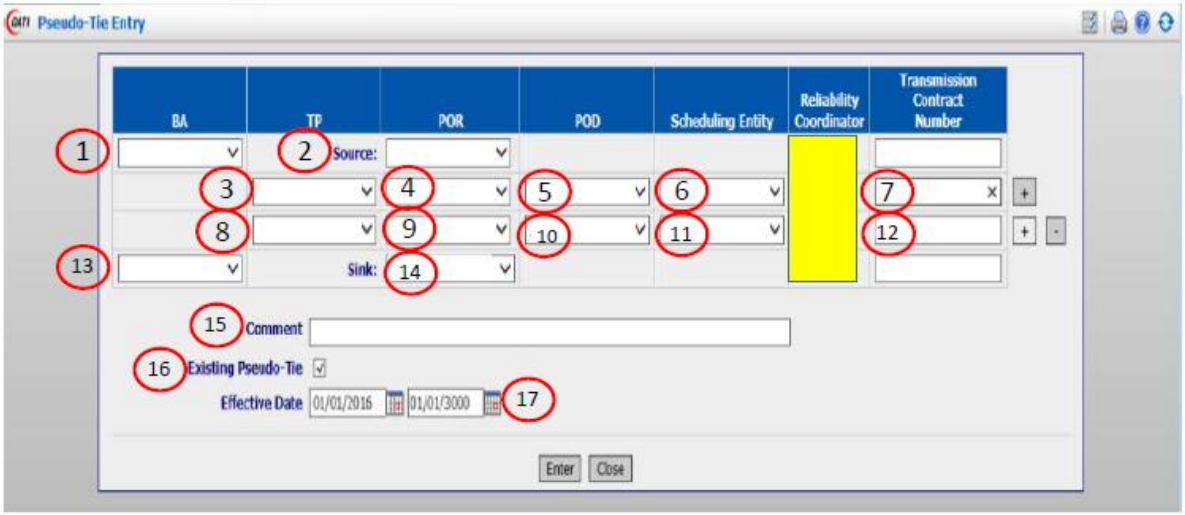
- **webRegistry is an OATI tool used to register objects used in transmission reservations and electronic tagging.**

- **It contains items such as:**
  - *Types of Transmission Products*
  - *Control Zones/Areas*
  - *POR/POD Points*
  - *Sink/Source Points*
  - *Pseudo-Ties*

- **Prior to implementation on a TSR or eTag, points must be registered in webRegistry by the responsible entity**

webRegistry

- **For Pseudo-Ties, when registering a point, please follow the criteria below:**



1. Source BA – LGEE
2. Source – LGEE
3. TP 1 – LGEE
4. POR 1 – LGEE
5. POD 1 – PJM
6. Scheduling Entity 1 – (Leave Blank)
7. Transmission Contract Number 1 – (Enter TSR for LGEE system)
8. TP 2 – PJM
9. POR 2 – LGEE
10. POD 2 – PJM
11. Scheduling Entity 2 – (Leave Blank)
12. Transmission Contract Number 2 – (Enter TSR for PJM)
13. Sink BA - PJM
14. Sink – (Enter the PSE registered Sink)
15. Comment – (Enter name of load/pseudo-tie)
16. Existing Pseudo-Tie - Check
17. Effective Date – 1/1/2016 thru 1/1/3000

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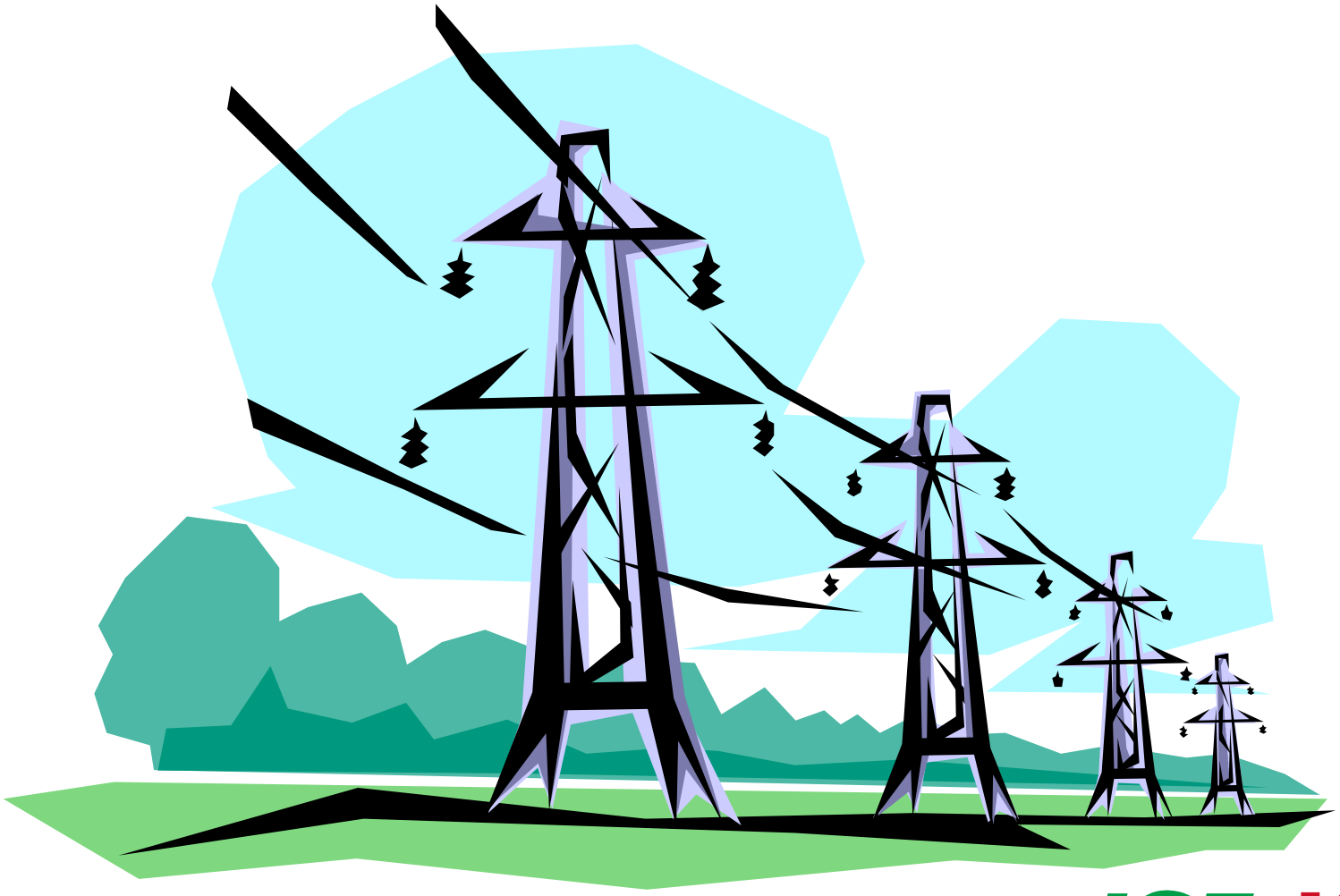
Implementing New Pseudo-Ties

- **As the BAA expects additional pseudo-ties to be added to the system, we ask our customers to give the BA as much notice as possible.**

- **Additionally, the BA has seen increased activity and interest in pseudo-tying generation to neighboring BAA's. The BA is currently**

- **Key considerations for implementing new ties include:**
  - *Metering and Communications Changes/Additions*
  - *Modeling Changes*
  - *Communication Channels*

Questions?



LSE Deregistration

- On October 15, FERC approved NERC's proposal to de-register and do away with the Load Serving Entity (LSE) registration.
- This was driven by NERC's finding that the LSE was not a reliability related registration, but rather a marketing function
- No changes have occurred to date, however, we are expecting them in the near future (1Q 2016).

LSE Deregistration: What this means

- **For the Balancing Authority Area, we are expecting minor changes overall. Day-to-day activities will remain the same.**

- **Changes to Emergency Operating Plans will need to be made. Changes such as:**
  - *Capacity and Energy Emergency Plan (EEA declaration)*
  - *Load Curtailment (Distribution Provider vs. LSE)*

- **Changes will also be expected in the OATT addressing this change**

Questions?