# SPP Southwest Power Pool HELPING OUR MEMBERS WORK TOGETHER TO KEEP THE LIGHTS ON ... TODAY AND IN THE FUTURE.



#### Ability of RTOs/ISOs to Accept and Utilize DLRs in Operations and Markets

#### Bio

• I received my BSEE in 2011 from Arkansas Tech University. I have worked for SPP for over 8 years, first in Market Forensics and Analysis working to implement the Integrated Marketplace, and currently in Operations Engineering and Analysis. In this role, I specialize in real-time analysis, assessments, and new tool deployment. I recently lead the effort to quantify potential benefit, design, and implement SPP's current real-time rating initiative, which has been in production since March 2019.



#### SPP Southwest Power Pool

- SPP was founded in 1941 when eleven regional power companies pooled their resources to keep Arkansas' Jones Mill powered around the clock in support of critical, national defense needs.
- Now, more than 75 years later, we're proud the SPP of today still reflects those early principles of collaboration in the interest of providing a critical service for the good of our region.
- Today, SPP oversees the bulk electric grid and wholesale power market in the central United States on behalf of a diverse group of utilities and transmission companies in 14 states.
- We ensure the reliable supply of power, adequate transmission infrastructure, and competitive wholesale electricity prices for a 546,000-square-mile region including more than 60,000 miles of high-voltage transmission lines.
- Our staff of about 600 professionals works proudly and diligently to ensure that more than 18 million people in our footprint have electricity when they need it.

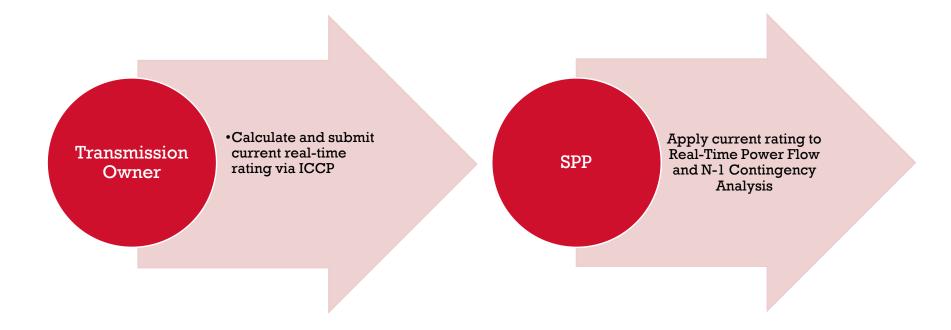


### SPP, DLRs, AARs, and real-time ratings

- An initiative was kicked off mid 2017 to start to evaluate the potential high level benefit and receipt of real-time ratings (DLR, AAR/TAR).
- Evaluations were conducted internally in SPP operations with various assumptions and presented to stake holder working groups, with the primary working group being the Operating Reliability Working Group (ORWG) due to representing a transmission owners.
- The design project scope was refined to allow SPP to receive real-time ratings, leaving the real-time rating methodology decision with the transmission owner
- This project was endorsed for implementation by ORWG in April 2018.
- The go-live date for the enhancement was March 1, 2019



#### SPP Enhancement



- Responsibility of how the DLR is determined still lies with the individual TO, with SPP's responsibility being to provide mechanism for receipt of rating and apply it in appropriate studies.
- Reasonability limits will be submitted for upper and lower bounds during modeling of rating and will be used to cap realtime ratings
- · Similar stale and bad quality logic used for MW scada output in EMS will be used to revert to static seasonal rating
- · Jointly owned assets shall have approval of all asset owners before modeling





## Thank you!

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