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**Sent:** Wednesday, November 13, 2013 12:36 PM  
**To:** Wilkerson, Randy  
**Subject:** More alternative operations questions

Hi Randy,

I dialed into the call this morning – but it was short on details. The presenter, Jody Sundsted, said there would be another meeting next week that would go into more detail. Is that meeting public and will there be web/teleconference access?

Also, I have a few more questions from the alternative operations recommendation report. I'm working for a 12noon PT deadline tomorrow, 11/14. – Thank you.

The report says:

“To address certain transmission congestion in the MISO and SPP footprints, the reliability coordinator cuts power schedules in and out of those RTOs under Transmission Loading Relief (TLR) protocols in addition to re-dispatching generation within its footprint. Western-UGP has experienced many TLR schedule cuts on short-term sales and purchases, as well as firm power schedules necessary to meet its obligations. Western-UGP has few options to avoid TLRs.”

- 1) Can you please provide a quantitative measurement of how these short-term sales (out of WAPA) and firm power schedules (into WAPA) have been impacted over time? Frequency of each, number of megawatts of each, etc.. per year, say in the past five to ten years?
- 2) Has congestion within the WAPA system increased over the last ten years? Or has congestion stayed constant but the tools with which to relieve congestion have diminished? If it has increased, where has it grown? Would you please quantify that?

“In addition to the MISO and SPP seams on the east and south, Western-UGP is constrained by limited access to the Canadian markets to the north, as well as to western markets, due to limitations of available capacity for energy transfers through the AC-DC-AC interconnection ties. Historically, Western-UGP has had opportunities to sell and purchase short-term energy from many different entities in response to hydro-generation variability. However, with entities joining MISO and its organized energy market, Western-UGP has seen those opportunities decrease significantly.”

- 3) Can you please quantify how many MW of transfer capability exist both long term and dynamically with MISO, SPP, Manitoba, Northwestern, any others?
- 4) Can you please quantify how the number of trading partners has changed over the last five to ten years?

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