## **Transmission Rules/Towers Review Working Group**



## Meeting Minutes – October 16, 2014

Time: 9:30 am to 3:00 pm

Location: AESO Offices, 2500 330 5<sup>th</sup> Ave SW, Room 2538

Attendance List:

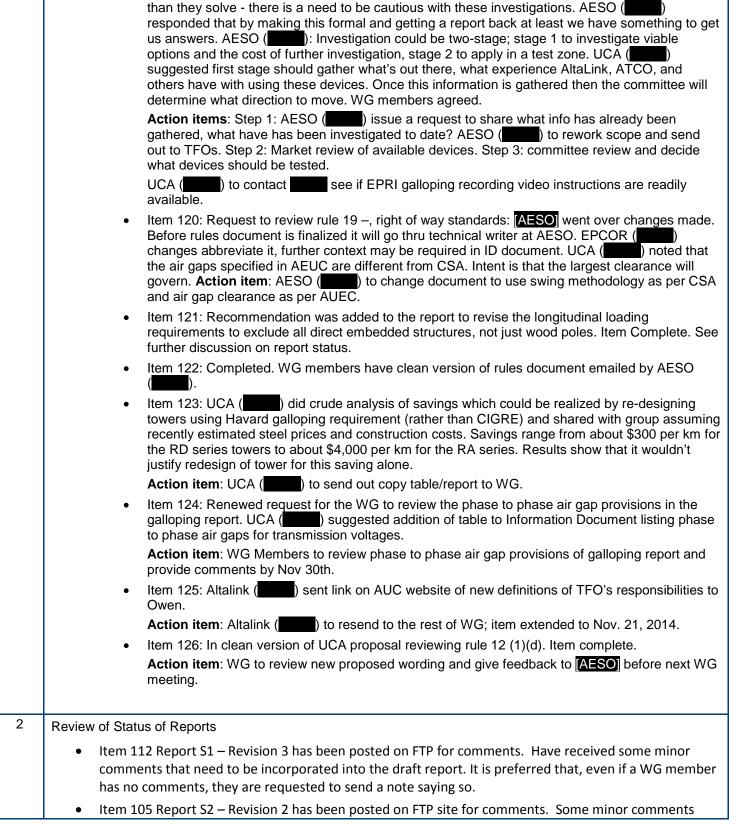
| <u>Attended</u> | <u>Name</u> | Company       | <u>Email</u> |
|-----------------|-------------|---------------|--------------|
| Χ               |             | AESO          |              |
|                 |             | AESO          |              |
| Χ               |             | AESO          |              |
| Χ               |             | AltaLink      |              |
| Χ               |             | AltaLink      |              |
| X-CC            |             | EPCOR         |              |
| Χ               |             | ENMAX         |              |
|                 |             | ENMAX         |              |
|                 |             | ATCO Electric |              |
| Χ               |             | ATCO Electric |              |
|                 |             | ATCO Electric |              |
|                 |             | TFCMC         |              |
| Χ               |             | UCA           |              |

CC = via Conference Call

## 1 Review of Needs List

- Item 92 Revision to Lightening Arrestor: Revisions to Rule regarding shield wire: ATCO (to propose revised wording for Rules section 14 to address use of surge arrestors vs. shield wire.
  Action item: ATCO (to propose revised forward to next meeting)
- Item 97: Comments on Meeting Minutes: UCA ( ) had forwarded comments on minutes of previous meeting. Suggested some minor revisions for clarity WG agreed.
  - Action item: AESO ( ) agreed to revise minutes per [UCA]'s comments and re-issue.
- Item 105: Loading Cost Comparison Report: discuss in review of reports. [AESO] has received feedback from UCA ( ) and ATCO ( ).
- Item 108: Swing clearance on long spans commitment not completed, carried forward.
  - **Action Item**: AESO ( ) will propose alternate wording in ID for section on swing clearance to acknowledge long spans ie: over rivers, etc., for next meeting. Item carried forward.
- Item 112: Galloping Draft Report: Discuss in review of reports section.
- Item 113: Conductor Sizing Draft Report: Discuss in review of reports section.
- Item 114: Optimized Conductor Report: Discuss in review of reports section.
- Item 116: Scope of Conductor Sizing Report Scope was clarified in discussions between [AESO] and [AESO]. Item Complete.
- Item 117: Summary of 5 selected lines for possible tower development sent out. Marked complete.
- Item 119: Proposal for Altalink to undertake investigation for galloping mitigation devices was read. Discussion followed. Altalink ( requested clarification of the intent; why AltaLink and why not an independent to do review of what's out there, perhaps 3<sup>rd</sup> party? Also some concern with the wording of the proposal; some galloping mitigation devices may cause more problems







received and will be incorporated. Some discussion of the recommendations which appear inconsistent with the scope of the report; committee suggested these should be observations. Observation: swing criterion for moderate wind trumps all other criteria using AltaLink air gap; Observe inconsistency on AESO criterion on sequence of failure - exclude all direct embedded poles as opposed to just wood pole structures. Action item: Aeso ( ) to make recommended change Rule 10 subpoint 8) for wood/steel pole. For approval from the WG and feedback due by November 28, 2014. Item 113 Report S3 – no further progress, a list of upcoming projects has been circulated; comments on five selected projects for review were received; nothing negative. Action item: AESO ( what is the number of years that are associated for terms: short, medium, long. Action item: AESO ) to request planners to rerun system studies under the assumption of a single conductor (as opposed to two-bundle), to determine impact on load flows for optimization. From that determine minimal conductor size. [AESO] and [AESO] to meet with planners (north) prior to next meeting and bring back committed dates for completion of conductor size study. Item 114 Report S4 – this is a take on to S3 nothing will be done until S3 is completed. Item carried forward Report S5: report on history of Meteorological Load Development – about 70% complete. Action item: AESO ( ) to create table to compare MRI report to final results. Action item: [AltaLink] to get Altalink to ok sending [UCA] report on 500kV loading criteria to AESO and a copy of the old MRI report to AESO for reference in report S5. Review of Outstanding Items from the Meeting with the Transmission Facilities Cost Monitoring Committee Member (TFCMC), [CCA] [AESO]: During the first meeting of the complete WG with [CCA], 4 of the 17 total topics were covered. In the 2<sup>nd</sup> meeting [AESO] and [AESO] met couple weeks ago with intention to grind through some of the remaining items. Good conversation about 100 degree C for 240kV, and why, we need actual numbers to make decision was discussed. [AESO]: "2<sup>nd</sup> meeting progressed fairly quickly, items discussed were primarily AESO-related items. Also provided [CCA] with the list of short term, medium term, and long projects extracted from the published AESO regional plans. [CCA] had learned much from the first meeting with the entire group – this meeting was more constructive than confrontational. Action item: AESO ( ) to book another two meeting with TFCMC to try and close as many remaining items as possible. AESO Wind Maps (request for clarification of wind loads near Pincher Creek) A clarification was requested for the AESO 100yr Wind Gust 10 metres: problem isotach contours near Pincher creek are not labeled and contours cannot cross as they seem to do on

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**Action item**: AESO ( ) to investigate where we can get non PDF version to be modified, if the map has to be re-created from scratch it will be a lot of work. Then **AESO** to update the

the map. Also disclaimer should be updated or removed.

map with contours correctly shown and labeled.

