

Mountain States
Transmission Intertie
MSTI
Review Group Meeting Minutes
October, 30 2007

Review Group Attendance List

| | | |
|--------|-----------------|-------------------------|
| | Paul Arnold | Columbia Grid |
| | Philip Augustin | PGE |
| | Kenneth Dillon | PGE |
| Phone | Joe Dooling | Sweetgrass Energy |
| | Edison Elizeh | Pacificorp |
| | Stan Gray | RES America Development |
| Phone | Mark Hanson | Idaho Power |
| | Sharon Helms | NTTG |
| | Robert Jenkins | PG&E |
| | Samuel Kwong | Williams Power |
| | Shamir Ladhani | Enmax Power |
| Attend | Peter Mackin | USE |
| | John Martinsen | Snohomish PUD |
| | Jeff Miller | Pacificorp |
| | Bill Pascoe | Consultant |
| Phone | Glen Tang | PowerEx |
| | Maifiny Vang | Calif Dept of Water |
| | Edi von Engein | Sierra Pacific |
| | Scott Waples | Avista |
| | Lorry Wilson | |
| | David Weige | Westmoreland |
| | Jon Williamson | PPL Energy Plus |
| | Daniel Wood | USE |
| | Tom Kaiserski | New Energy Division |
| | Mark Landauer | Columbia Grid |
| | Mark Mallard | NWE |
| Attend | Kathy Bauer | NWE |
| | Tom Pankratz | NWE |
| Attend | Chuck Stigers | NWE |
| Attend | John Leland | NWE |
| Attend | Ryan Munson | NWE |
| Attend | John Cummings | NWE |
| Phone | Craig Quist | PAC |
| Phone | Rebecca Berdahl | BPA |
| Phone | Ray Brush | NWE |

1. Meeting Room Facilities:
 - a. Lavatories, Breaks, Refreshments
 - b. Handouts located on table
2. Introductions and read standards of conduct
3. Review agenda and suggest changes
4. Previous Meeting Action Items
 - a. Minutes and/or action items from last meeting (see
Mountain_states_transmission_intertie_17_sep_07_review_group_agenda_from_mtg_draft_1.doc
 - i. Minutes: Comments or corrections? Minutes for 17-Sep-07 approved by voice vote
 - ii. Action Items
 1. Slider drawing of Montana and Idaho/Wyoming/Utah (see
light_base_non_stressed.pdf and
heavy_base_non_stressed.pdf) There was a general discussion on which NTTG projects to include and most folks believed that ALL NTTG projects should be in the NTTG cases. Specifically, the LS Power line from Midpoint to great Basin 2 (Duck Creek) was discussed and NWE said they would add the line to their cases. Craig Q. asked that any changes be sent to him by this Friday. Craig also asked for a “read_me.doc” from everyone on how to disable their projects.
 2. Add base case descriptions and outage list to Study plan Rev 5 (inc PAC outage list (esp. N-2)) (see

msti_phase_1_study_plan_rev5.doc AND PACE_N2_for_msti.con). A few comments on outage names were made, but Revision 5 of the study plan was reviewed and accepted. More detail will be added to the document as the outages and base cases are finalized. Idaho mentioned they may have a more robust plan for Populous to Hemmingway but that it would perform better than the model in the base cases so there is no need to update the base case model until more is known.

3. Phase 2 projects to include or not (see phase_2_projects_for_inclusion_17_oct_07.doc or msti_phase_1_study_plan_rev5.doc). There was a general discussion on which projects to include and which to exclude. The list presented was accepted once Palo-Verde – Devers #2 was added to the “Included” list. A few questions were asked about Northern Lights but the consensus was unless a project is far enough along and near MSTI, it need not be included.

5. NTTG update

a. Computer model updates

i. IPC/PAC/NWE base case status

1. Tuned-up (No NTTG) & Fast-track (NTTG) case status

a. BCH1: John C (see case_compare_oct_07.doc, casum_msti_all.xls, HEAVY_MSTI_0.pdf,

HEAVY_MSTI_1500.pdf,
HEAVY_MSTI_1500_mpsl_oos.pdf,
HEAVY_MSTI_1500_mpxf_oos.pdf)
John's preliminary investigation focused on
two outages in Idaho, loss of MP-SL and
loss of the MP 500/345 kV transformer. All
results looked good thermally.

- b. CCH1: Ryan (JC; copies for minutes)
- c. CCL1: Peter (JC; copies for minutes)
- d. BCL1: To Do

ii. Dynamic data set preparation. The wind models are giving us trouble in V30 and one approach would be to use CIMTR4 models. These are very conservative and if no problems showed up with the CIMTR4 models, none would show up with the correct dynamic model.

b. There will be a meeting in Boise on 13-Nov-07 that John Leland, John C and Ryan M will attend.

6. MSTI Northern Terminus (see northern_terminus_overview.doc)
NWE is still designing its "collector" system to bring wind, thermal and other energy to the 500 kV substations in Montana. The northern terminus has 8 various concepts that may be turned into plans or may not.

7. Model or topology data questions or comments

8. Approved 17-Sep-07 minutes and progress reports will be posted (MSTI website) (JC: To Do)