Recent Progress:

- 1. Mention progress from last week?
- 2. Added zeroing of derivatives for tripped machines to improve VTS performance.
- 3. Updated PST versioning document.
- 4. FTS \longrightarrow VTS seems okay VTS \longrightarrow FTS may have minor issues
- 5. Added capacity tracking and interchange modulation capabilities to area/AGC.
- 6. Created icAdj use case document and code example.
- 7. Updated AGC doc to include icAdj
- 8. Updated PST to version 4.0.0-a7
- 9. miniWECC 3 area à la EIA regions
- 10. GitHub updated: https://github.com/thadhaines/MT-Tech-SETO

Current Tasks:

- 1. Create extended term event:
 - Use miniWECC and pwrmod
 - Issue: rolling blackouts in CA
 - High PV penetration
 - Drought has led to lower hydro output
 - Initial low $N \longrightarrow S$ flows
 - Solar generation declines as load increases
 - Inadequate CA dispatchable generation
 - Leads to large $N \longrightarrow S$ flows
 - EIA data from 8/14/20 18:00?
- 2. Work towards PST 4.0.0:
 - Verify and Validate operation of AGC, PWRMOD, IVMMOD, and VTS.
 - Refine documentation
 - Clean up examples
 - Clean up code/comments
 - Clean up readme files
- 3. Work on understanding PST operation
- 4. Document findings of PST functionality
- 5. Investigate Octave compatibility

Current Questions:

- 1. Only 1 pwrmod **model** allowed per case?
- 2. Real data for case/paper?
- 3. Paper expectations?

Loose ends:

- 1. As infinite buses don't seem to be used in dynamic simulation, they were not converted to use the golbal g.
- 2. tgh model not converted for use with global g. (no examples of tgh gov)
- 3. In original (and current) s_simu, the global tap value associated with HVDC is over-written with a value used to compute line current multiple times. It probably shouldn't be.
- 4. Constant Power or Current loads seem to require a portion of constant Impedance.
- 5. PSS design functionality not explored
- 6. No examples of of delta P omega filter or user defined damping controls for SVC and TCSC models
- 7. Differences in mac_ind between pst 2 and 3 seem backward compatible untested.

Coding Thoughts:

- 1. Rework how switching & perturbance events are handled into a more flexible and general format. (flags? objects?)
- 2. Generate comparison scripts to verify simulated results match between code revisions and modifications.