CalLite Edits:

1. Main\_corrMF.wresl
   1. (Easton) In the second cycle, include Delta\_Reduced\_Calls.wresl instead of Delta.wresl. The reduced calls logic makes use of ANN results from last cycle instead of recomputing various parameters.
   2. (Parker) In the second cycle, include wheelcap.wresl instead of wheelzero.wresl. This turns on CVC and JPOD wheeling.
   3. (Parker) In the second cycle, include wheelfixes.wresl. This locks in various SWP and CVP operations that should not be affected by wheeling operations.
2. ANN Reduced Call Implementation (Easton)
   1. Delta\_Reduced\_Calls.wresl includes Delta\_ANN\_Reduced\_Calls.wresl.
   2. Delta\_ANN\_Reduced\_Calls.wresl includes several ANN wresl files that retrieve the BASE cycle ANN results rather than recomputing the ANN parameters using the dll. The new included wresl files are:
      1. JerseyPoint\_data\_reduced\_calls.wresl
      2. RockSlough\_data\_reduced\_calls.wresl
      3. Emmaton\_data\_reduced\_calls.wresl
      4. Collins\_data\_reduced\_calls.wresl
      5. Chipps\_data\_reduced\_calls.wresl
      6. CCFB\_intake\_data\_reduced\_calls.wresl
      7. Antioch\_data\_reduced\_calls.wresl
      8. Victoria\_intake\_data\_reduced\_calls.wresl
      9. MiddleRiver\_data\_reduced\_calls.wresl
      10. LosVaqueros\_data\_reduced\_calls.wresl
      11. CVP\_intake\_data\_reduced\_calls.wresl
3. DeltaExtFuncs\_7inpANN.wresl
   1. For the ANNLineGen function, use ANN7inp\_BST\_noSLR\_111709\_test.dll. This dll was provided by Nazrul Islam and placed in the External folder. The dll provides debugging output and was compiled with a different Fortran compiler than the previous ANN dll. The new dll will have to be replaced with a non-debugging version. The new dll made for improved comparisons with CalSim.
4. Wheelzero.wresl (Parker)
   1. Various reservoir release subarcs defined for JPOD accounting.
   2. JPOD releases turned off in the first cycle.
5. Wheelcap.wresl
   1. (Parker) Define reservoir release subarcs for JPOD accounting.
   2. (Parker) Only allow CVC wheeling when there are no B2 export actions. (goal Wheeling2)
   3. (Easton) Turn off goal setSurplusCont from April to June because it was not allowing additional Delta surplus caused by B2 export constraints.
   4. (Parker) Add JPOD wheeling limits found in CalSim. Turn off JPOD wheeling when B2 export limits are triggered. Wheelcap.table was added to the Lookup folder for JPOD limit implementation.
   5. (Parker) Route JPOD reservoir releases to Banks PP. Route JPOD pumping at Banks to O’Neill Forebay, CVP San Luis, and the DMC.
6. Wheelfixes.wresl
   1. (Parker and Easton) Since B2 export reductions and wheeling are applied in the same cycle, there was a conflict between the operational fixes applied for wheeling and the forced change in operations caused by B2. The solution was to effectively divide cycle 2 into two periods – a B2 export reduction period (April to June) and a CVC and JPOD wheeling period (July to March). The added conditionals to the wheeling operational fix constraints provide this separation.
7. CVP\_to\_swp\_south.wresl (Parker)
   1. Removed several extraneous comment lines.
8. Weight-table.wresl
   1. (Parker) Added negative weights for C\_Delta\_whljp (-2007) and D\_Banks\_cvpwhl (-25) for JPOD operations.
   2. (Easton) Added negative weight for C\_Intrti (-10) to discourage use of the DMC-CA Interie unless the DMS was being used to its full capacity.
9. COA.wresl
   1. (Parker) Add subarc C\_Delta\_whljp to arc C\_Delta in order to account for JPOD carriage water.
   2. (Easton) Change penalty weights on EI and AprMay capacity sharing constraints from 1285 to 1290. I had found that, since rulecurve storage in San Luis was weighted 1285, there were often non-unique solutions causing CalLite and CalSim to differ. The same change should also be applied to CalSim.
10. BaseStudyResults.wresl
    1. (Parker) Added SV B2DeltaON that for all B2 export actions. The variable is used to separate B2 export constraints from wheeling constraints.
11. Intertie.wresl
    1. (Parker) Change made to route JPOD water from the California Aqueduct through the O’Neill Forebay to either CVP San Luis or the DMC.
12. BanksSplit.wresl
    1. (Parker) Added Banks subarcs for JPOD accounting.
13. Inflow-table.wresl
    1. (Parker) Removed I\_CVCWheel since it is not used.
14. Connectivity-table.wresl
    1. (Parker) Removed I\_CVCWheel since it is not used.