**CalLite Enlarged Shasta coding notes**

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The coding for CalLite duplicates coding in CalSim II. Below is the schematic for enlarged Shasta in CalSim. The enlarged part of Shasta is S44, and inflow and outflow arcs to S44 are C4401 and C4402.



In CalLite S44 is called S\_ShstaE and C4401 and C4402 are C\_ShstaE\_01 and C\_ShstaE\_02.

The following changes were made to CalLite:

New tables:

1. Shasta\_level256, shasta\_level443, shasta\_level634: these are new versions of the shasta\_level table to be used when Shasta is enlarged, for three different enlargement sizes.
2. GUIEnlargedShasta: holds switches to turn on enlargement and set size.

The following WRESL files were changed:

1. Added S\_ShstaE to all calculations that use S\_Shsta in the following files:

CVP\_delivery\_rule\_curve.wresl

WSIandDI\_CVP\_system.wresl

ShaRuleCurv.wresl

ncp\_relax.wresl

Jones\_pump\_allow.wresl

ExportEstimate1.wresl

ExportEstimate\_b2.wresl

ExportEstimate\_Up.wresl

1. Trinity\_import.wresl: Added code to use different shasta\_level tables depending on enlargement size.
2. Reservoir-table.wresl: Added reservoir logic for S\_ShstaE.
3. Channel-table.wresl: Added C\_ShstaE\_01 and C\_ShstaE\_02.
4. Connectivity-table.wresl: Added connectivity equations for S\_ShstaE.
5. Weight-table.wresl: added new weights for S\_ShstaE zones, F\_ShstaE, and C\_ShstaE\_01.
6. Options\_Switches.wresl: Added code to read in new switches.

The accompanying pdf file (CalLite impact of SLWRI code.pdf) shows the difference in results between the original model and the model after all the above code changes were made, but with enlarged Shasta turned off. There are no significant differences.