The September 8, 2013 Release of Green Building Studio passed the GBS analytical results regression test.

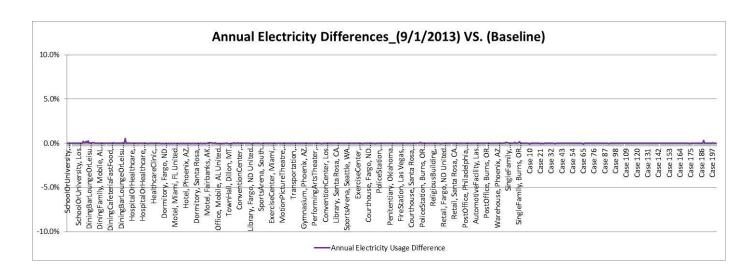
This release addresses Green Building Studio back-end database improvements and navigation bugs.

- The annual energy result changed and all differences are expected
  - A door construction default was revised from and insulation value of R-5 to R-2
  - The order of some polygon vertices coordinates have shifted
  - Azimuth of some shading surfaces rotated

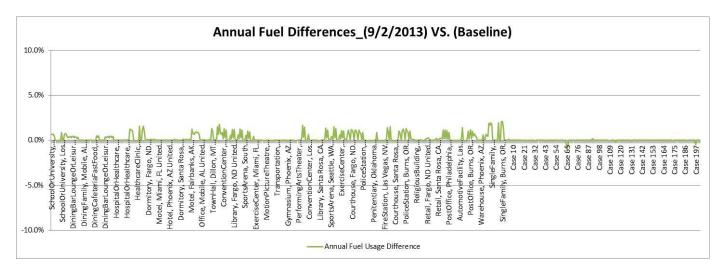
	Electricity	Fuel
Minimum	-0.1%	-1.0%
Maximum	0.5%	2.1%
Median	0.0%	0.0%

- The surface count differences are all acceptable.
  - The differences are due to GBS breaking the shading surfaces into smaller divisions for DOE-2 simulations. The largest percent change is due to shading surfaces being broken into 10, rather than 8 sections; resulting in the total surface count in the model decreasing from 17 to 15 (-13%). The change in surface sections had no impact on the energy results of the model. (See the dwx file image below)

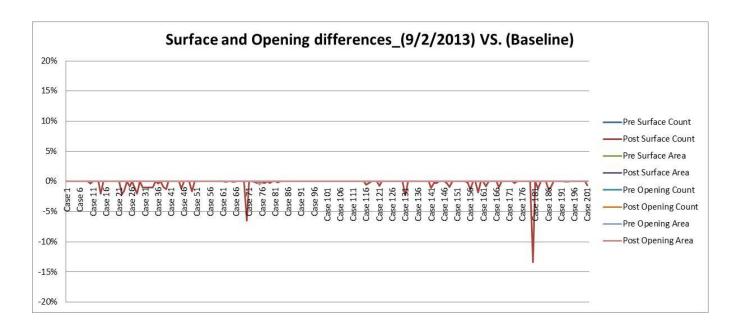
	Pre Surface Count	Post Surface Count	Pre Surface Area	Post Surface Area	Pre Opening Count	Post Opening Count	Pre Opening Area	Post Opening Area
Minimum Change	0%	0%	0%	0%	0%	0%	0%	0%
Maximum Change	0%	-13%	0%	0%	0%	0%	0%	-1%
Median Change	0%	0%	0%	0%	0%	0%	0%	0%



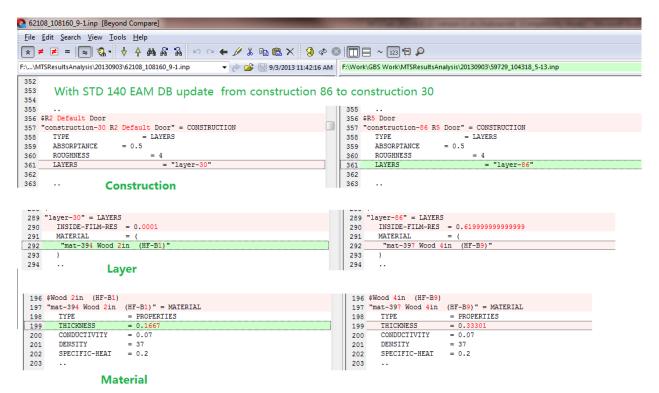
Electricity usage change



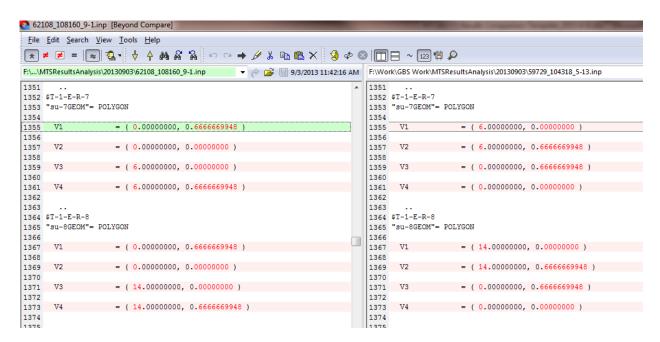
Fuel usage change



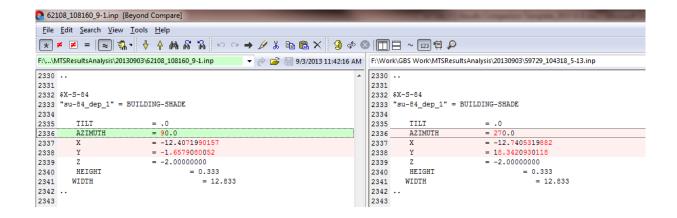
**Model Geometry Surface and Opening Differences** 



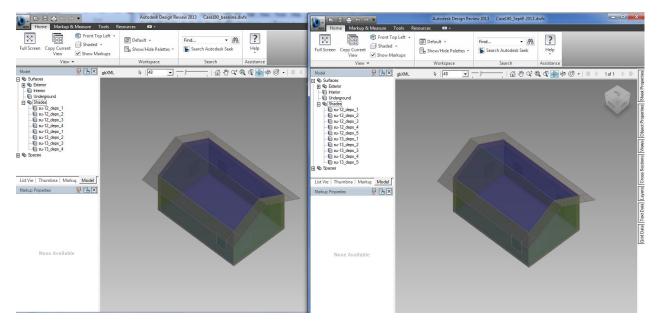
DOE-2 .inp file differences: Construction Update



DOE-2 .inp file differences: Coordinate Value Update



DOE-2 .inp file differences: Building Shade azimuth rotation



dwx images of shading surface division change