

Other Utah Locations – S_S

	ASCE 7-10	ASCE 7-16	Change	Percentage
Logan	0.971	1.058	0.087	9%
Brigham City	1.467	1.372	-0.095	-6%
Ogden	1.373	1.362	-0.011	-1%
Provo	1.144	1.323	0.179	16%
Manti	0.638	0.635	-0.003	0%
Cedar City	0.702	0.777	0.075	11%
St. George	0.499	0.509	0.010	2%
Vernal	0.297	0.317	0.020	7%
Monticello	0.156	0.179	0.023	15%

Selected Changes to ASCE 7-16



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Other Utah Locations – S_1

	ASCE 7-10	ASCE 7-16	Change	Percentage
Logan	0.311	0.353	0.042	14%
Brigham City	0.521	0.488	-0.033	-6%
Ogden	0.499	0.497	-0.002	0%
Provo	0.427	0.496	0.069	16%
Manti	0.186	0.199	0.013	7%
Cedar City	0.216	0.250	0.034	16%
St. George	0.153	0.165	0.012	8%
Vernal	0.091	0.082	-0.009	-10%
Monticello	0.054	0.057	0.003	6%

Selected Changes to ASCE 7-16



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Sample Changes, S_{DS} (Short Period Buildings)

Location	S_{DS}	A	B Measured	B Unmeasured	C	D	Default	E
Logan	+9%	+8%	-2%	+9%	+29%	+6%	+18%	+40%
Brigham City	-6%	-6%	-16%	-6%	+12%	-6%	+12%	+25%
Murray	-4%	-4%	-14%	-4%	+15%	-4%	+15%	+15%
St. George	+2%	+2%	-8%	+2%	+10%	+1%	+1%	+1%
Monticello	+15%	+16%	+4%	+15%	+25%	+15%	15%	+10%



Sample Changes, S_{D1} (Long Period Buildings)

Location	S_{D1}	A	B Measured	B Unmeasured	C	D	Default	E
Logan ($S1 > 0.2$)	+14%	+13%	-9%	+14%	+15%	+24% (+59% Base Shear)	+24%	*
Brigham City ($S1 > 0.2$)	-6%	-6%	-25%	-6%	+8%	+13% (+40% Base Shear)	+13%	*
Murray ($S1 > 0.2$)	-4%	0%	-20%	-1%	13%	+17% (+43% Base Shear)	+17%	*
St. George ($S1 < 0.2$)	+8%	+7%	-14%	+8%	-2%	+12%	+12%	+17%
Monticello ($S1 < 0.2$)	+6%	+3%	-17%	+6%	-7%	+5%	+5%	+26%

* Site-specific ground motion hazard analysis is required

