

# South Texas (28.79° N, 96.05° E), Control Point Hazard

SA (g)	AFE 0.5 Hz	AFE 1 Hz	AFE 2.5 Hz	AFE 5 Hz	AFE 10 Hz	AFE 25 Hz	AFE 100 Hz
0.001000	3.056581e-03	3.871260e-03	4.840261e-03	4.998080e-03	4.978912e-03	4.846452e-03	4.381765e-03
0.001122	3.056581e-03	3.871260e-03	4.840243e-03	4.996869e-03	4.957336e-03	4.845660e-03	4.381765e-03
0.001259	3.056579e-03	3.871260e-03	4.840130e-03	4.990782e-03	4.921770e-03	4.837538e-03	4.381764e-03
0.001413	3.056560e-03	3.871260e-03	4.839617e-03	4.974639e-03	4.866867e-03	4.806238e-03	4.381695e-03
0.001585	3.056442e-03	3.871259e-03	4.837768e-03	4.945303e-03	4.789085e-03	4.739060e-03	4.379620e-03
0.001778	3.055880e-03	3.871235e-03	4.832300e-03	4.899158e-03	4.688297e-03	4.636327e-03	4.361057e-03
0.001995	3.053832e-03	3.870874e-03	4.818516e-03	4.832794e-03	4.567309e-03	4.510847e-03	4.293274e-03
0.002239	3.047948e-03	3.867717e-03	4.789020e-03	4.745997e-03	4.428463e-03	4.368536e-03	4.157564e-03
0.002512	3.033922e-03	3.851920e-03	4.736916e-03	4.639839e-03	4.272133e-03	4.209228e-03	3.980327e-03
0.002818	3.005181e-03	3.805838e-03	4.660851e-03	4.514770e-03	4.098704e-03	4.033562e-03	3.785556e-03
0.003162	2.955122e-03	3.721689e-03	4.564705e-03	4.370777e-03	3.909264e-03	3.842917e-03	3.576183e-03
0.003548	2.882652e-03	3.611743e-03	4.452687e-03	4.207804e-03	3.705473e-03	3.639118e-03	3.354000e-03
0.003981	2.793572e-03	3.491166e-03	4.326784e-03	4.026080e-03	3.489555e-03	3.424547e-03	3.121873e-03
0.004467	2.694823e-03	3.366432e-03	4.187311e-03	3.826401e-03	3.264290e-03	3.202176e-03	2.882885e-03
0.005012	2.590257e-03	3.238715e-03	4.033923e-03	3.610321e-03	3.032784e-03	2.975227e-03	2.640292e-03
0.005623	2.481110e-03	3.107785e-03	3.866176e-03	3.380212e-03	2.798401e-03	2.746986e-03	2.397786e-03
0.006310	2.367454e-03	2.973064e-03	3.683816e-03	3.139154e-03	2.564438e-03	2.520561e-03	2.159155e-03
0.007079	2.248987e-03	2.833851e-03	3.486982e-03	2.890815e-03	2.334135e-03	2.298884e-03	1.927969e-03
0.007943	2.125428e-03	2.689479e-03	3.276328e-03	2.639223e-03	2.110381e-03	2.084484e-03	1.707319e-03
0.008913	1.996719e-03	2.539419e-03	3.053127e-03	2.388553e-03	1.895754e-03	1.879522e-03	1.499832e-03
0.010000	1.863120e-03	2.383354e-03	2.819358e-03	2.142861e-03	1.692291e-03	1.685637e-03	1.307482e-03
0.011220	1.725240e-03	2.221297e-03	2.577742e-03	1.905879e-03	1.501580e-03	1.504044e-03	1.131647e-03
0.012589	1.584068e-03	2.053697e-03	2.331706e-03	1.680803e-03	1.324657e-03	1.335480e-03	9.730123e-04
0.014125	1.440967e-03	1.881556e-03	2.085227e-03	1.470172e-03	1.162126e-03	1.180326e-03	8.316757e-04
0.015849	1.297641e-03	1.706443e-03	1.842593e-03	1.275807e-03	1.014127e-03	1.038447e-03	7.070990e-04
0.017783	1.156026e-03	1.530459e-03	1.608103e-03	1.098809e-03	8.804224e-04	9.075483e-04	5.971141e-04
0.019953	1.018128e-03	1.356101e-03	1.385758e-03	9.396059e-04	7.596286e-04	7.797066e-04	4.959551e-04
0.022387	8.858042e-04	1.186119e-03	1.178984e-03	7.980422e-04	6.488073e-04	6.492904e-04	3.994714e-04
0.025119	7.606684e-04	1.023316e-03	9.903938e-04	6.734302e-04	5.477701e-04	5.216752e-04	3.122990e-04
0.028184	6.442016e-04	8.702900e-04	8.216589e-04	5.644747e-04	4.576463e-04	4.082941e-04	2.414176e-04
0.031623	5.377789e-04	7.291371e-04	6.734730e-04	4.695222e-04	3.781211e-04	3.157150e-04	1.864685e-04
0.035481	4.424373e-04	6.011339e-04	5.456115e-04	3.874053e-04	3.091712e-04	2.424380e-04	1.442159e-04
0.039811	3.587041e-04	4.869038e-04	4.370838e-04	3.172432e-04	2.506806e-04	1.851235e-04	1.117407e-04
0.044668	2.865957e-04	3.870841e-04	3.463613e-04	2.578660e-04	2.020806e-04	1.407222e-04	8.673311e-05
0.050119	2.256762e-04	3.022031e-04	2.716345e-04	2.081622e-04	1.622739e-04	1.066420e-04	6.740554e-05
0.056234	1.751383e-04	2.319523e-04	2.110143e-04	1.671217e-04	1.299320e-04	8.075386e-05	5.239128e-05
0.063096	1.339222e-04	1.751578e-04	1.626076e-04	1.336333e-04	1.038070e-04	6.125348e-05	4.066895e-05
0.070795	1.008700e-04	1.301868e-04	1.245321e-04	1.065394e-04	8.281233e-05	4.662119e-05	3.146729e-05
0.079433	7.482591e-05	9.526060e-05	9.496993e-05	8.475076e-05	6.599821e-05	3.565682e-05	2.421381e-05
0.089125	5.466886e-05	6.863096e-05	7.224973e-05	6.729790e-05	5.254428e-05	2.738204e-05	1.850728e-05
0.100000	3.934418e-05	4.871020e-05	5.491359e-05	5.335486e-05	4.177683e-05	2.110370e-05	1.407049e-05
0.112202	2.790155e-05	3.410183e-05	4.174573e-05	4.224058e-05	3.316141e-05	1.634132e-05	1.065262e-05
0.125893	1.950829e-05	2.358920e-05	3.176553e-05	3.339178e-05	2.627538e-05	1.268756e-05	8.028998e-06
0.141254	1.345647e-05	1.614188e-05	2.420066e-05	2.634298e-05	2.077382e-05	9.848352e-06	6.019325e-06
0.158489	9.164446e-06	1.094717e-05	1.845592e-05	2.072712e-05	1.637196e-05	7.623051e-06	4.483714e-06

0.177828	6.168192e-06	7.388559e-06	1.408350e-05	1.626131e-05	1.285386e-05	5.867563e-06	3.313080e-06
0.199526	4.107886e-06	4.986614e-06	1.075034e-05	1.271797e-05	1.005417e-05	4.484376e-06	2.424552e-06
0.223872	2.710869e-06	3.376646e-06	8.205187e-06	9.912444e-06	7.829356e-06	3.401335e-06	1.754282e-06
0.251189	1.775614e-06	2.299505e-06	6.255981e-06	7.698306e-06	6.059521e-06	2.557984e-06	1.253106e-06
0.281838	1.157832e-06	1.579184e-06	4.758613e-06	5.954968e-06	4.655243e-06	1.902786e-06	8.827661e-07
0.316228	7.557918e-07	1.096205e-06	3.607320e-06	4.582889e-06	3.547350e-06	1.395655e-06	6.120932e-07
0.354813	4.966907e-07	7.700048e-07	2.723682e-06	3.505484e-06	2.679255e-06	1.007540e-06	4.168403e-07
0.398107	3.296821e-07	5.469245e-07	2.047830e-06	2.663444e-06	2.003519e-06	7.150066e-07	2.783543e-07
0.446684	2.216199e-07	3.917828e-07	1.532953e-06	2.007935e-06	1.480232e-06	4.974049e-07	1.820463e-07
0.501187	1.512328e-07	2.820576e-07	1.141662e-06	1.499886e-06	1.078386e-06	3.382757e-07	1.164129e-07
0.562341	1.048779e-07	2.036323e-07	8.440983e-07	1.108938e-06	7.733446e-07	2.240473e-07	7.257237e-08
0.630957	7.382215e-08	1.471052e-07	6.175799e-07	8.106913e-07	5.444586e-07	1.437799e-07	4.400373e-08
0.707946	5.275506e-08	1.059292e-07	4.459528e-07	5.845751e-07	3.752305e-07	8.904354e-08	2.590139e-08
0.794328	3.852262e-08	7.587429e-08	3.177091e-07	4.138862e-07	2.528068e-07	5.297976e-08	1.477046e-08
0.891251	2.879141e-08	5.405796e-08	2.237943e-07	2.864071e-07	1.663832e-07	3.009081e-08	8.136750e-09
1.000000	2.181983e-08	3.832014e-08	1.562790e-07	1.934588e-07	1.067752e-07	1.612255e-08	4.305159e-09
1.122019	1.659919e-08	2.708317e-08	1.082153e-07	1.279144e-07	6.649447e-08	7.978570e-09	2.162456e-09
1.258925	1.261071e-08	1.919650e-08	7.405462e-08	8.305237e-08	3.975224e-08	3.580383e-09	1.011634e-09
1.412538	9.548782e-09	1.372573e-08	4.980666e-08	5.279608e-08	2.244994e-08	1.406843e-09	4.238616e-10
1.584893	7.195762e-09	9.885573e-09	3.275749e-08	3.244362e-08	1.179869e-08	4.369246e-10	1.499265e-10
1.778279	5.390081e-09	7.114320e-09	2.101692e-08	1.891426e-08	5.665054e-09	9.311777e-11	4.004758e-11
1.995262	4.014511e-09	5.083342e-09	1.315785e-08	1.029717e-08	2.399463e-09	1.213302e-11	6.570671e-12
2.238721	2.977359e-09	3.600433e-09	8.046643e-09	5.191111e-09	8.555193e-10	8.987064e-13	5.386448e-13
2.511886	2.196389e-09	2.529494e-09	4.806463e-09	2.402642e-09	2.463179e-10	3.633017e-14	1.930707e-14
2.818383	1.609435e-09	1.767009e-09	2.799679e-09	9.980440e-10	5.594217e-11	7.857734e-16	2.812039e-16
3.162278	1.169476e-09	1.231489e-09	1.583300e-09	3.573580e-10	9.995865e-12	9.049744e-18	1.599984e-18
3.548134	8.419853e-10	8.549449e-10	8.616208e-10	1.053104e-10	1.419457e-12	5.599253e-20	3.483347e-21
3.981072	6.002746e-10	5.877982e-10	4.470980e-10	2.452934e-11	1.618755e-13	2.052025e-22	3.860641e-24
4.466836	4.235128e-10	3.987214e-10	2.214647e-10	4.374452e-12	1.488030e-14	1.169127e-23	2.895481e-24
5.011872	2.955098e-10	2.663503e-10	1.064928e-10	5.828623e-13	1.100351e-15	7.794180e-24	1.930321e-24
5.623413	2.171176e-10	1.893921e-10	6.550585e-11	2.934567e-13	5.517165e-16	3.897090e-24	9.651603e-25
6.309573	1.387254e-10	1.124340e-10	2.451885e-11	4.051134e-15	3.081946e-18	0.000000e+00	0.000000e+00

## South Texas (28.79° N, 96.05° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.071031	0.079315	0.154398
0.561009	0.070898	0.078738	0.153067
0.629463	0.071974	0.079855	0.155200
0.706269	0.074592	0.081751	0.158399
0.792447	0.074941	0.081553	0.157736
0.889140	0.076313	0.082912	0.160299
0.997631	0.077993	0.084272	0.162706
1.000000	0.078024	0.084295	0.162746
1.122019	0.075824	0.083369	0.161664
1.258925	0.074455	0.083903	0.163704
1.412538	0.074528	0.085936	0.168637
1.584893	0.073991	0.087167	0.171970

1.778279	0.075523	0.091517	0.181832
1.995262	0.076402	0.094560	0.188873
2.238721	0.076565	0.097399	0.195882
2.500000	0.077710	0.101615	0.205774
2.805046	0.078921	0.105955	0.215980
3.147313	0.079740	0.109780	0.225190
3.531344	0.078626	0.110303	0.227328
3.962233	0.076511	0.109401	0.226546
4.445698	0.074695	0.108601	0.225830
4.988156	0.073087	0.107031	0.222964
5.000000	0.073050	0.106988	0.222881
5.610092	0.071404	0.105981	0.221520
6.294627	0.068397	0.101687	0.212634
7.062688	0.066119	0.098949	0.207250
7.924466	0.065327	0.097179	0.203239
8.891397	0.064612	0.096618	0.202327
9.976312	0.064306	0.095662	0.200066
10.000000	0.064308	0.095646	0.200023
11.220185	0.060855	0.090202	0.188477
12.589254	0.058047	0.085169	0.177508
14.125375	0.055800	0.080139	0.166134
15.848932	0.053740	0.075482	0.155612
17.782794	0.052439	0.072186	0.148067
19.952623	0.051699	0.070072	0.143176
22.387211	0.051471	0.068873	0.140276
25.000000	0.051706	0.067808	0.137413
28.050461	0.052115	0.067186	0.135570
31.473135	0.052682	0.067007	0.134756
35.313439	0.053308	0.067115	0.134629
39.622330	0.053866	0.067276	0.134680
44.456985	0.054430	0.067710	0.135416
49.881558	0.054708	0.067972	0.135898
55.968028	0.054480	0.067869	0.135782
62.797161	0.053619	0.067252	0.134775
70.459573	0.052096	0.066134	0.132937
79.056942	0.049966	0.064442	0.130048
88.703347	0.047341	0.062251	0.126236
99.526793	0.044708	0.060023	0.122353
100.000000	0.041871	0.056426	0.115128