

Callaway (38.76° N, 91.78° 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	1.194134e-02	2.352265e-02	3.909966e-02	4.232151e-02	4.292585e-02	4.218324e-02	3.842988e-02
0.001122	1.104615e-02	2.236848e-02	3.906524e-02	4.232151e-02	4.292585e-02	4.218324e-02	3.842988e-02
0.001259	1.018572e-02	2.083941e-02	3.860301e-02	4.232146e-02	4.292585e-02	4.218324e-02	3.842988e-02
0.001413	9.388229e-03	1.935729e-02	3.783998e-02	4.231812e-02	4.292585e-02	4.218324e-02	3.842988e-02
0.001585	8.649041e-03	1.791941e-02	3.689477e-02	4.227551e-02	4.292585e-02	4.218320e-02	3.842988e-02
0.001778	7.967317e-03	1.653827e-02	3.570840e-02	4.213275e-02	4.292585e-02	4.218256e-02	3.842931e-02
0.001995	7.338640e-03	1.521901e-02	3.434291e-02	4.191318e-02	4.292585e-02	4.217501e-02	3.840092e-02
0.002239	6.761288e-03	1.397038e-02	3.287563e-02	4.160767e-02	4.292580e-02	4.211884e-02	3.817393e-02
0.002512	6.231132e-03	1.279251e-02	3.132182e-02	4.117630e-02	4.292420e-02	4.192059e-02	3.757659e-02
0.002818	5.745847e-03	1.169026e-02	2.969245e-02	4.061519e-02	4.290407e-02	4.153881e-02	3.657547e-02
0.003162	5.301628e-03	1.066273e-02	2.800494e-02	3.993344e-02	4.279930e-02	4.098213e-02	3.527611e-02
0.003548	4.895444e-03	9.711983e-03	2.627698e-02	3.912341e-02	4.252690e-02	4.027750e-02	3.383796e-02
0.003981	4.524056e-03	8.834880e-03	2.452886e-02	3.817512e-02	4.208233e-02	3.945356e-02	3.230099e-02
0.004467	4.183409e-03	8.030995e-03	2.277828e-02	3.709111e-02	4.151648e-02	3.851584e-02	3.067825e-02
0.005012	3.870970e-03	7.296106e-03	2.104601e-02	3.588273e-02	4.084612e-02	3.746293e-02	2.898917e-02
0.005623	3.581502e-03	6.627841e-03	1.934851e-02	3.456191e-02	4.006201e-02	3.629591e-02	2.725437e-02
0.006310	3.313318e-03	6.021424e-03	1.770372e-02	3.313933e-02	3.915799e-02	3.501908e-02	2.549481e-02
0.007079	3.060407e-03	5.472746e-03	1.612465e-02	3.162686e-02	3.813117e-02	3.364020e-02	2.373206e-02
0.007943	2.821982e-03	4.976910e-03	1.462473e-02	3.003773e-02	3.698044e-02	3.217072e-02	2.198732e-02
0.008913	2.592803e-03	4.528172e-03	1.321216e-02	2.838762e-02	3.570830e-02	3.062474e-02	2.027979e-02
0.010000	2.374367e-03	4.121822e-03	1.189497e-02	2.669329e-02	3.432198e-02	2.901869e-02	1.862615e-02
0.011220	2.165248e-03	3.750862e-03	1.067646e-02	2.497311e-02	3.283252e-02	2.737001e-02	1.704013e-02
0.012589	1.967370e-03	3.411135e-03	9.559123e-03	2.324534e-02	3.125373e-02	2.569716e-02	1.553290e-02
0.014125	1.777041e-03	3.096705e-03	8.541699e-03	2.152870e-02	2.960190e-02	2.401844e-02	1.411251e-02
0.015849	1.590072e-03	2.807410e-03	7.621846e-03	1.984045e-02	2.789535e-02	2.235169e-02	1.278448e-02
0.017783	1.405052e-03	2.533478e-03	6.794796e-03	1.819701e-02	2.615384e-02	2.071325e-02	1.155148e-02
0.019953	1.225449e-03	2.274204e-03	6.054285e-03	1.661250e-02	2.439771e-02	1.911789e-02	1.041419e-02
0.022387	1.057167e-03	2.027883e-03	5.394022e-03	1.509945e-02	2.264692e-02	1.757818e-02	9.374518e-03
0.025119	9.013807e-04	1.793664e-03	4.807504e-03	1.366743e-02	2.092038e-02	1.610452e-02	8.437639e-03
0.028184	7.586163e-04	1.571556e-03	4.286453e-03	1.232387e-02	1.923545e-02	1.470472e-02	7.591521e-03
0.031623	6.296024e-04	1.361667e-03	3.820692e-03	1.107348e-02	1.760754e-02	1.338384e-02	6.819777e-03
0.035481	5.158315e-04	1.164556e-03	3.401775e-03	9.919113e-03	1.604956e-02	1.214564e-02	6.115290e-03
0.039811	4.169817e-04	9.795945e-04	3.021894e-03	8.863234e-03	1.457182e-02	1.099525e-02	5.474160e-03
0.044668	3.323392e-04	8.115028e-04	2.673361e-03	7.904047e-03	1.318194e-02	9.930749e-03	4.890228e-03
0.050119	2.608922e-04	6.621096e-04	2.351474e-03	7.034884e-03	1.188484e-02	8.948874e-03	4.357235e-03
0.056234	2.018681e-04	5.315534e-04	2.053539e-03	6.251597e-03	1.068282e-02	8.046772e-03	3.869472e-03
0.063096	1.539913e-04	4.197617e-04	1.778302e-03	5.548619e-03	9.575835e-03	7.219621e-03	3.422002e-03
0.070795	1.156806e-04	3.260026e-04	1.525040e-03	4.917345e-03	8.562461e-03	6.462348e-03	3.010988e-03
0.079433	8.571298e-05	2.494601e-04	1.293875e-03	4.349517e-03	7.640986e-03	5.769930e-03	2.633769e-03
0.089125	6.253961e-05	1.878148e-04	1.084478e-03	3.838401e-03	6.806259e-03	5.137385e-03	2.288436e-03
0.100000	4.501917e-05	1.393777e-04	8.977485e-04	3.377610e-03	6.050190e-03	4.559869e-03	1.973746e-03
0.112202	3.193972e-05	1.018000e-04	7.335494e-04	2.961186e-03	5.365069e-03	4.032856e-03	1.688945e-03
0.125893	2.239464e-05	7.337854e-05	5.917932e-04	2.584121e-03	4.743942e-03	3.552273e-03	1.433102e-03
0.141254	1.548891e-05	5.208056e-05	4.711129e-04	2.242694e-03	4.180333e-03	3.114573e-03	1.203061e-03
0.158489	1.060641e-05	3.651744e-05	3.703643e-04	1.934200e-03	3.668390e-03	2.716732e-03	9.855666e-04

0.177828	7.183017e-06	2.524425e-05	2.873844e-04	1.656586e-03	3.203137e-03	2.356200e-03	7.839370e-04
0.199526	4.830625e-06	1.725609e-05	2.203908e-04	1.408228e-03	2.780537e-03	2.030816e-03	6.135087e-04
0.223872	3.227452e-06	1.165436e-05	1.671072e-04	1.187609e-03	2.397456e-03	1.738626e-03	4.745228e-04
0.251189	2.150685e-06	7.814962e-06	1.253957e-04	9.934116e-04	2.051512e-03	1.477484e-03	3.628618e-04
0.281838	1.428288e-06	5.195771e-06	9.310295e-05	8.241121e-04	1.740807e-03	1.244691e-03	2.736390e-04
0.316228	9.451105e-07	3.440079e-06	6.845427e-05	6.779536e-04	1.463452e-03	1.037490e-03	2.022810e-04
0.354813	6.257620e-07	2.281275e-06	4.988749e-05	5.528864e-04	1.217091e-03	8.542767e-04	1.468006e-04
0.398107	4.161905e-07	1.521725e-06	3.614685e-05	4.467839e-04	9.994993e-04	6.947262e-04	1.053378e-04
0.446684	2.779074e-07	1.024119e-06	2.607881e-05	3.576407e-04	8.096664e-04	5.584571e-04	7.492022e-05
0.501187	1.887480e-07	6.974216e-07	1.871863e-05	2.835934e-04	6.474426e-04	4.439845e-04	5.278558e-05
0.562341	1.304195e-07	4.815963e-07	1.341305e-05	2.228319e-04	5.116614e-04	3.488597e-04	3.675344e-05
0.630957	9.065178e-08	3.374807e-07	9.616149e-06	1.735433e-04	3.995744e-04	2.705384e-04	2.528328e-05
0.707946	6.329983e-08	2.405733e-07	6.910886e-06	1.339706e-04	3.079933e-04	2.069622e-04	1.726053e-05
0.794328	4.446958e-08	1.736986e-07	4.984490e-06	1.025364e-04	2.341767e-04	1.563424e-04	1.171679e-05
0.891251	3.144535e-08	1.273552e-07	3.616666e-06	7.785500e-05	1.758978e-04	1.167702e-04	7.895539e-06
1.000000	2.225147e-08	9.471065e-08	2.645988e-06	5.865692e-05	1.308185e-04	8.625738e-05	5.274135e-06
1.122019	1.574686e-08	7.148578e-08	1.953803e-06	4.379507e-05	9.637446e-05	6.299655e-05	3.481916e-06
1.258925	1.108939e-08	5.413012e-08	1.455204e-06	3.233693e-05	7.026499e-05	4.548925e-05	2.266272e-06
1.412538	7.778883e-09	4.114711e-08	1.094669e-06	2.359945e-05	5.065851e-05	3.251378e-05	1.450832e-06
1.584893	5.448474e-09	3.129946e-08	8.326056e-07	1.702203e-05	3.612267e-05	2.303622e-05	9.099604e-07
1.778279	3.801782e-09	2.378395e-08	6.392884e-07	1.212259e-05	2.549870e-05	1.617201e-05	5.576616e-07
1.995262	2.638259e-09	1.807110e-08	4.938164e-07	8.527913e-06	1.783357e-05	1.121302e-05	3.323516e-07
2.238721	1.816871e-09	1.367234e-08	3.825982e-07	5.939512e-06	1.236826e-05	7.648166e-06	1.919833e-07
2.511886	1.240467e-09	1.028009e-08	2.961042e-07	4.114325e-06	8.508534e-06	5.126573e-06	1.074521e-07
2.818383	8.377575e-10	7.697040e-09	2.277410e-07	2.842890e-06	5.794865e-06	3.386843e-06	5.812049e-08
3.162278	5.591137e-10	5.726529e-09	1.731491e-07	1.953284e-06	3.895985e-06	2.212319e-06	3.029440e-08
3.548134	3.677664e-10	4.216020e-09	1.294792e-07	1.329296e-06	2.581529e-06	1.427344e-06	1.510066e-08
3.981072	2.379409e-10	3.061608e-09	9.488504e-08	8.956639e-07	1.684573e-06	9.034654e-07	7.029410e-09
4.466836	1.507062e-10	2.183035e-09	6.798944e-08	5.972278e-07	1.080987e-06	5.554974e-07	2.904560e-09
5.011872	9.330810e-11	1.519827e-09	4.765650e-08	3.927195e-07	6.804749e-07	3.288852e-07	9.890200e-10
5.623413	6.264920e-11	1.099946e-09	3.501521e-08	2.763579e-07	4.661342e-07	2.150601e-07	5.184980e-10
6.309573	3.199030e-11	6.800642e-10	2.237392e-08	1.599962e-07	2.517935e-07	1.012350e-07	4.797605e-11

Callaway (38.76° N, 91.78° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.074867	0.082995	0.161270
0.561009	0.080789	0.089122	0.172964
0.629463	0.086718	0.095117	0.184333
0.706269	0.092732	0.101146	0.195744
0.792447	0.098910	0.107328	0.207439
0.889140	0.105373	0.113999	0.220169
0.997631	0.112753	0.121196	0.233688
1.000000	0.112908	0.121344	0.233967
1.122019	0.125982	0.138302	0.268083
1.258925	0.139511	0.155214	0.301871
1.412538	0.154437	0.173783	0.338949
1.584893	0.171956	0.194153	0.378998

1.778279	0.191791	0.216743	0.423189
1.995262	0.213887	0.243305	0.475832
2.238721	0.241281	0.277135	0.543305
2.500000	0.274157	0.316991	0.622471
2.805046	0.314969	0.377415	0.747771
3.147313	0.366440	0.455395	0.910532
3.531344	0.434987	0.556603	1.121047
3.962233	0.527507	0.682326	1.377983
4.445698	0.650757	0.821708	1.649504
4.988156	0.802690	0.957087	1.893926
5.000000	0.806048	0.959929	1.898978
5.610092	0.935416	1.073396	2.103826
6.294627	1.033288	1.162483	2.267194
7.062688	1.081473	1.212738	2.363282
7.924466	1.112851	1.242874	2.419554
8.891397	1.117106	1.243768	2.419422
9.976312	1.106797	1.229676	2.390740
10.000000	1.106515	1.229338	2.390071
11.220185	1.053216	1.179812	2.298517
12.589254	1.017690	1.148606	2.241923
14.125375	0.992165	1.124410	2.196954
15.848932	0.974136	1.106332	2.162783
17.782794	0.963480	1.090546	2.130126
19.952623	0.953088	1.074913	2.097705
22.387211	0.945354	1.059838	2.065199
25.000000	0.926204	1.031416	2.006443
28.050461	0.892980	0.984279	1.909846
31.473135	0.831038	0.915050	1.775054
35.313439	0.759380	0.829298	1.605403
39.622330	0.683197	0.738125	1.425072
44.456985	0.628396	0.673699	1.298180
49.881558	0.597221	0.635302	1.221806
55.968028	0.572269	0.605717	1.163451
62.797161	0.549453	0.578391	1.109443
70.459573	0.523012	0.549980	1.054670
79.056942	0.495130	0.520919	0.999067
88.703347	0.464110	0.489623	0.939686
99.526793	0.436676	0.463410	0.890692
100.000000	0.405164	0.432248	0.831897