

# McGuire (35.43° N, 80.95° 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	1.037005e-02	1.796734e-02	2.699343e-02	2.860681e-02	2.889291e-02	2.855535e-02	2.678418e-02
0.001122	9.759606e-03	1.699510e-02	2.637637e-02	2.829588e-02	2.866518e-02	2.826301e-02	2.613167e-02
0.001259	9.167670e-03	1.604991e-02	2.576645e-02	2.798666e-02	2.843826e-02	2.797176e-02	2.548673e-02
0.001413	8.608580e-03	1.512043e-02	2.508380e-02	2.761398e-02	2.815775e-02	2.762264e-02	2.476372e-02
0.001585	8.080359e-03	1.420695e-02	2.432953e-02	2.717687e-02	2.782238e-02	2.721456e-02	2.396412e-02
0.001778	7.579245e-03	1.331996e-02	2.350542e-02	2.666442e-02	2.741950e-02	2.673706e-02	2.308982e-02
0.001995	7.104081e-03	1.246080e-02	2.262023e-02	2.608234e-02	2.695344e-02	2.619511e-02	2.215076e-02
0.002239	6.649578e-03	1.163567e-02	2.167922e-02	2.542173e-02	2.641255e-02	2.558017e-02	2.115271e-02
0.002512	6.214758e-03	1.084328e-02	2.068618e-02	2.468440e-02	2.579768e-02	2.489360e-02	2.010035e-02
0.002818	5.793866e-03	1.008603e-02	1.965121e-02	2.386658e-02	2.510164e-02	2.413226e-02	1.900548e-02
0.003162	5.387154e-03	9.363291e-03	1.858283e-02	2.297623e-02	2.433090e-02	2.330306e-02	1.787784e-02
0.003548	4.989450e-03	8.673421e-03	1.749265e-02	2.201431e-02	2.348344e-02	2.240834e-02	1.673250e-02
0.003981	4.601711e-03	8.015575e-03	1.638725e-02	2.098877e-02	2.256592e-02	2.145476e-02	1.557678e-02
0.004467	4.220657e-03	7.385498e-03	1.527867e-02	1.990653e-02	2.158322e-02	2.045115e-02	1.442811e-02
0.005012	3.847809e-03	6.782851e-03	1.417233e-02	1.877609e-02	2.054270e-02	1.940426e-02	1.329179e-02
0.005623	3.482725e-03	6.202835e-03	1.307939e-02	1.761047e-02	1.945598e-02	1.832814e-02	1.218490e-02
0.006310	3.127379e-03	5.646079e-03	1.200461e-02	1.641874e-02	1.833120e-02	1.722959e-02	1.111070e-02
0.007079	2.784015e-03	5.109351e-03	1.095784e-02	1.521836e-02	1.718428e-02	1.612462e-02	1.008295e-02
0.007943	2.454185e-03	4.593735e-03	9.942115e-03	1.401663e-02	1.602208e-02	1.501835e-02	9.102108e-03
0.008913	2.142179e-03	4.099384e-03	8.967373e-03	1.283396e-02	1.486283e-02	1.392650e-02	8.178004e-03
0.010000	1.848892e-03	3.627831e-03	8.035581e-03	1.167603e-02	1.371253e-02	1.285315e-02	7.309440e-03
0.011220	1.578825e-03	3.182104e-03	7.155910e-03	1.056147e-02	1.258760e-02	1.181067e-02	6.505824e-03
0.012589	1.331451e-03	2.762975e-03	6.328117e-03	9.492548e-03	1.149164e-02	1.080119e-02	5.756606e-03
0.014125	1.110716e-03	2.375858e-03	5.561062e-03	8.484994e-03	1.043932e-02	9.834893e-03	5.069153e-03
0.015849	9.142380e-04	2.019296e-03	4.851106e-03	7.536389e-03	9.430220e-03	8.911165e-03	4.438806e-03
0.017783	7.441263e-04	1.698205e-03	4.204061e-03	6.656366e-03	8.474657e-03	8.036496e-03	3.867442e-03
0.019953	5.977096e-04	1.411019e-03	3.616835e-03	5.843261e-03	7.573784e-03	7.211584e-03	3.351114e-03
0.022387	4.750646e-04	1.160285e-03	3.091250e-03	5.100723e-03	6.733300e-03	6.440484e-03	2.891255e-03
0.025119	3.724947e-04	9.418470e-04	2.621310e-03	4.423248e-03	5.950037e-03	5.720423e-03	2.487365e-03
0.028184	2.890562e-04	7.564668e-04	2.206898e-03	3.811988e-03	5.227901e-03	5.054707e-03	2.140022e-03
0.031623	2.214158e-04	5.998183e-04	1.842590e-03	3.262132e-03	4.564290e-03	4.441125e-03	1.836512e-03
0.035481	1.680276e-04	4.708796e-04	1.526807e-03	2.773166e-03	3.961302e-03	3.881747e-03	1.569992e-03
0.039811	1.259620e-04	3.650052e-04	1.253679e-03	2.339283e-03	3.414628e-03	3.372843e-03	1.336299e-03
0.044668	9.366209e-05	2.803306e-04	1.021207e-03	1.959502e-03	2.925410e-03	2.915574e-03	1.133277e-03
0.050119	6.888613e-05	2.127199e-04	8.237047e-04	1.627694e-03	2.488414e-03	2.505367e-03	9.569533e-04
0.056234	5.033443e-05	1.601099e-04	6.590151e-04	1.342501e-03	2.103812e-03	2.142308e-03	8.050125e-04
0.063096	3.645300e-05	1.192214e-04	5.219339e-04	1.097812e-03	1.765903e-03	1.821437e-03	6.762373e-04
0.070795	2.628525e-05	8.820404e-05	4.101716e-04	8.916965e-04	1.473724e-03	1.541684e-03	5.689514e-04
0.079433	1.883937e-05	6.468786e-05	3.191614e-04	7.182781e-04	1.221371e-03	1.298001e-03	4.777187e-04
0.089125	1.348084e-05	4.724318e-05	2.466630e-04	5.752007e-04	1.007014e-03	1.088530e-03	4.004428e-04
0.100000	9.624772e-06	3.430680e-05	1.889717e-04	4.572757e-04	8.251186e-04	9.086313e-04	3.350863e-04
0.112202	6.881901e-06	2.487931e-05	1.440271e-04	3.618929e-04	6.732083e-04	7.559711e-04	2.798620e-04
0.125893	4.930938e-06	1.800917e-05	1.090293e-04	2.847793e-04	5.464106e-04	6.263194e-04	2.332921e-04
0.141254	3.548229e-06	1.305748e-05	8.228903e-05	2.234751e-04	4.421275e-04	5.170968e-04	1.940929e-04
0.158489	2.568991e-06	9.489824e-06	6.185847e-05	1.747382e-04	3.563582e-04	4.255507e-04	1.610252e-04

0.177828	1.871719e-06	6.925796e-06	4.646387e-05	1.364681e-04	2.866504e-04	3.494802e-04	1.330837e-04
0.199526	1.374973e-06	5.082341e-06	3.486673e-05	1.064266e-04	2.300299e-04	2.863416e-04	1.096664e-04
0.223872	1.016285e-06	3.748531e-06	2.619329e-05	8.300484e-05	1.844180e-04	2.342716e-04	9.020689e-05
0.251189	7.575455e-07	2.784207e-06	1.970731e-05	6.474452e-05	1.476720e-04	1.913448e-04	7.407197e-05
0.281838	5.674069e-07	2.077534e-06	1.485824e-05	5.052824e-05	1.182027e-04	1.560791e-04	6.071485e-05
0.316228	4.276136e-07	1.559482e-06	1.123259e-05	3.946013e-05	9.457218e-05	1.271522e-04	4.966771e-05
0.354813	3.229562e-07	1.173584e-06	8.506738e-06	3.081969e-05	7.564185e-05	1.034852e-04	4.052117e-05
0.398107	2.446025e-07	8.861337e-07	6.457350e-06	2.407432e-05	6.047689e-05	8.412610e-05	3.293690e-05
0.446684	1.851603e-07	6.691136e-07	4.904025e-06	1.878637e-05	4.831066e-05	6.830532e-05	2.666559e-05
0.501187	1.400640e-07	5.052630e-07	3.726662e-06	1.464093e-05	3.855018e-05	5.537718e-05	2.150635e-05
0.562341	1.056476e-07	3.806441e-07	2.828116e-06	1.138230e-05	3.070398e-05	4.481120e-05	1.727104e-05
0.630957	7.938674e-08	2.858753e-07	2.142399e-06	8.821164e-06	2.439735e-05	3.617904e-05	1.379805e-05
0.707946	5.937442e-08	2.137803e-07	1.617633e-06	6.809602e-06	1.932513e-05	2.912943e-05	1.095944e-05
0.794328	4.412927e-08	1.589465e-07	1.216084e-06	5.230022e-06	1.524636e-05	2.337274e-05	8.650622e-06
0.891251	3.259790e-08	1.174868e-07	9.095900e-07	3.995700e-06	1.197431e-05	1.868014e-05	6.781563e-06
1.000000	2.388153e-08	8.615864e-08	6.757658e-07	3.031749e-06	9.350797e-06	1.485753e-05	5.276581e-06
1.122019	1.736918e-08	6.273672e-08	4.987175e-07	2.285404e-06	7.259491e-06	1.175557e-05	4.072541e-06
1.258925	1.250699e-08	4.523755e-08	3.647429e-07	1.707928e-06	5.593492e-06	9.241056e-06	3.116996e-06
1.412538	8.933321e-09	3.235841e-08	2.646432e-07	1.266722e-06	4.279521e-06	7.217381e-06	2.364965e-06
1.584893	6.306911e-09	2.288037e-08	1.898554e-07	9.296371e-07	3.243197e-06	5.589957e-06	1.777902e-06
1.778279	4.411088e-09	1.602780e-08	1.348846e-07	6.760091e-07	2.436369e-06	4.293667e-06	1.323228e-06
1.995262	3.045656e-09	1.108373e-08	9.457659e-08	4.856150e-07	1.809659e-06	3.264532e-06	9.744635e-07
2.238721	2.081326e-09	7.585410e-09	6.558133e-08	3.451555e-07	1.330182e-06	2.457011e-06	7.096908e-07
2.511886	1.400492e-09	5.110893e-09	4.473297e-08	2.415743e-07	9.634997e-07	1.824476e-06	5.108282e-07
2.818383	9.301449e-10	3.398380e-09	3.007678e-08	1.667251e-07	6.880797e-07	1.336001e-06	3.630514e-07
3.162278	6.058193e-10	2.215482e-09	1.979673e-08	1.127526e-07	4.816526e-07	9.600935e-07	2.544937e-07
3.548134	3.873264e-10	1.417450e-09	1.276615e-08	7.470814e-08	3.300380e-07	6.754596e-07	1.756598e-07
3.981072	2.403018e-10	8.797043e-10	7.965701e-09	4.792952e-08	2.188534e-07	4.607609e-07	1.191290e-07
4.466836	1.455657e-10	5.330655e-10	4.851203e-09	2.995576e-08	1.410576e-07	3.050115e-07	7.913317e-08
5.011872	8.452201e-11	3.096170e-10	2.830537e-09	1.789184e-08	8.662416e-08	1.926840e-07	5.128527e-08
5.623413	5.217880e-11	1.911627e-10	1.749681e-09	1.112550e-08	5.424968e-08	1.230360e-07	3.535928e-08
6.309573	1.983558e-11	7.270843e-11	6.688250e-10	4.359166e-09	2.187520e-08	5.338794e-08	1.943330e-08

## McGuire (35.43° N, 80.95° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.043546	0.050281	0.098702
0.561009	0.047374	0.055152	0.108486
0.629463	0.051283	0.059931	0.117999
0.706269	0.055255	0.064653	0.127337
0.792447	0.059243	0.069363	0.136634
0.889140	0.063304	0.074095	0.145946
0.997631	0.067394	0.078864	0.155329
1.000000	0.067480	0.078963	0.155523
1.122019	0.074644	0.090079	0.178789
1.258925	0.082128	0.100940	0.201264
1.412538	0.089875	0.111633	0.223174
1.584893	0.097738	0.122260	0.244850

1.778279	0.105776	0.132902	0.266458
1.995262	0.113984	0.143637	0.288193
2.238721	0.122285	0.154530	0.310265
2.500000	0.130425	0.165177	0.331824
2.805046	0.141013	0.184340	0.373268
3.147313	0.152313	0.204151	0.415974
3.531344	0.164419	0.224547	0.459680
3.962233	0.177313	0.245523	0.504362
4.445698	0.190943	0.267008	0.549845
4.988156	0.205366	0.289051	0.596206
5.000000	0.205672	0.289512	0.597172
5.610092	0.219156	0.314634	0.652197
6.294627	0.233939	0.341255	0.710206
7.062688	0.250054	0.369193	0.770672
7.924466	0.267552	0.398569	0.833850
8.891397	0.286463	0.429418	0.899798
9.976312	0.306813	0.461481	0.967798
10.000000	0.307248	0.462160	0.969234
11.220185	0.312221	0.472896	0.993464
12.589254	0.317825	0.484678	1.019955
14.125375	0.324130	0.497718	1.049206
15.848932	0.331232	0.512207	1.081646
17.782794	0.339288	0.528457	1.117971
19.952623	0.349032	0.547433	1.160135
22.387211	0.361635	0.571067	1.212278
25.000000	0.369776	0.583882	1.239461
28.050461	0.377068	0.595799	1.264971
31.473135	0.383925	0.607295	1.289732
35.313439	0.389699	0.617319	1.311492
39.622330	0.392587	0.623591	1.325719
44.456985	0.395594	0.630048	1.340342
49.881558	0.395021	0.631050	1.343494
55.968028	0.387080	0.620644	1.322557
62.797161	0.370003	0.595842	1.271081
70.459573	0.342689	0.554126	1.183304
79.056942	0.307446	0.499368	1.067566
88.703347	0.268544	0.438080	0.937560
99.526793	0.233855	0.382482	0.819102
100.000000	0.210678	0.345435	0.740224