

Quad Cities (41.73° N, 90.34° 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	4.986836e-03	7.852188e-03	1.139994e-02	1.209301e-02	1.223813e-02	1.206386e-02	1.122319e-02
0.001122	4.793872e-03	7.682838e-03	1.133144e-02	1.206207e-02	1.220157e-02	1.203327e-02	1.116846e-02
0.001259	4.563794e-03	7.414921e-03	1.115646e-02	1.200408e-02	1.211954e-02	1.193478e-02	1.100719e-02
0.001413	4.344095e-03	7.102237e-03	1.091523e-02	1.191288e-02	1.200989e-02	1.179263e-02	1.075457e-02
0.001585	4.135747e-03	6.760011e-03	1.063582e-02	1.178421e-02	1.187438e-02	1.162776e-02	1.045037e-02
0.001778	3.937468e-03	6.413233e-03	1.032829e-02	1.161931e-02	1.171374e-02	1.143783e-02	1.011957e-02
0.001995	3.748598e-03	6.074089e-03	9.996009e-03	1.142294e-02	1.152663e-02	1.122098e-02	9.764478e-03
0.002239	3.567214e-03	5.745840e-03	9.641699e-03	1.119778e-02	1.131196e-02	1.097723e-02	9.387957e-03
0.002512	3.392627e-03	5.429367e-03	9.267934e-03	1.094424e-02	1.106873e-02	1.070664e-02	8.993424e-03
0.002818	3.222333e-03	5.125323e-03	8.877469e-03	1.066249e-02	1.079664e-02	1.040951e-02	8.584035e-03
0.003162	3.055822e-03	4.833907e-03	8.473667e-03	1.035325e-02	1.049625e-02	1.008707e-02	8.163014e-03
0.003548	2.890284e-03	4.554700e-03	8.060247e-03	1.001778e-02	1.016905e-02	9.741411e-03	7.733484e-03
0.003981	2.725458e-03	4.287231e-03	7.640973e-03	9.657940e-03	9.816897e-03	9.374969e-03	7.298252e-03
0.004467	2.558777e-03	4.030036e-03	7.219337e-03	9.276164e-03	9.442217e-03	8.990264e-03	6.859470e-03
0.005012	2.390380e-03	3.782103e-03	6.798638e-03	8.875259e-03	9.047624e-03	8.589994e-03	6.418783e-03
0.005623	2.218743e-03	3.541206e-03	6.381567e-03	8.458239e-03	8.635935e-03	8.176767e-03	5.977517e-03
0.006310	2.044692e-03	3.306111e-03	5.970411e-03	8.028169e-03	8.210063e-03	7.753204e-03	5.536897e-03
0.007079	1.868337e-03	3.074491e-03	5.566588e-03	7.588016e-03	7.772717e-03	7.321766e-03	5.098450e-03
0.007943	1.691273e-03	2.845305e-03	5.170883e-03	7.140543e-03	7.326453e-03	6.884709e-03	4.664031e-03
0.008913	1.515868e-03	2.617086e-03	4.783332e-03	6.688249e-03	6.873596e-03	6.444222e-03	4.236224e-03
0.010000	1.343229e-03	2.389718e-03	4.403557e-03	6.233370e-03	6.416503e-03	6.002568e-03	3.818288e-03
0.011220	1.176266e-03	2.163388e-03	4.031055e-03	5.777965e-03	5.957515e-03	5.562183e-03	3.414157e-03
0.012589	1.016554e-03	1.939161e-03	3.665296e-03	5.324070e-03	5.499008e-03	5.125612e-03	3.026091e-03
0.014125	8.674184e-04	1.719401e-03	3.306622e-03	4.873878e-03	5.044000e-03	4.695710e-03	2.653991e-03
0.015849	7.295052e-04	1.506226e-03	2.955832e-03	4.429873e-03	4.595391e-03	4.275520e-03	2.301582e-03
0.017783	6.050374e-04	1.302626e-03	2.614756e-03	3.994988e-03	4.156585e-03	3.866185e-03	1.977450e-03
0.019953	4.942001e-04	1.111009e-03	2.286341e-03	3.572639e-03	3.731502e-03	3.468269e-03	1.685977e-03
0.022387	3.982212e-04	9.343478e-04	1.974435e-03	3.166579e-03	3.324106e-03	3.088343e-03	1.427898e-03
0.025119	3.159521e-04	7.739867e-04	1.682845e-03	2.780696e-03	2.936825e-03	2.731563e-03	1.202517e-03
0.028184	2.471717e-04	6.316274e-04	1.414708e-03	2.418719e-03	2.573218e-03	2.399780e-03	1.007885e-03
0.031623	1.903861e-04	5.074798e-04	1.172754e-03	2.083757e-03	2.236511e-03	2.094674e-03	8.414787e-04
0.035481	1.446978e-04	4.016383e-04	9.586261e-04	1.778045e-03	1.928953e-03	1.816997e-03	7.003758e-04
0.039811	1.083363e-04	3.129368e-04	7.730311e-04	1.503022e-03	1.651558e-03	1.567038e-03	5.815618e-04
0.044668	8.008315e-05	2.402616e-04	6.152578e-04	1.259245e-03	1.404350e-03	1.344004e-03	4.820231e-04
0.050119	5.835178e-05	1.817610e-04	4.838090e-04	1.046243e-03	1.186534e-03	1.146915e-03	3.990007e-04
0.056234	4.201977e-05	1.356524e-04	3.762357e-04	8.626288e-04	9.966385e-04	9.740514e-04	3.299620e-04
0.063096	2.986748e-05	9.990662e-05	2.897899e-04	7.063374e-04	8.327258e-04	8.237264e-04	2.726748e-04
0.070795	2.101455e-05	7.272110e-05	2.213849e-04	5.748435e-04	6.925063e-04	6.938229e-04	2.243690e-04
0.079433	1.462509e-05	5.236066e-05	1.680569e-04	4.653725e-04	5.735374e-04	5.823951e-04	1.838930e-04
0.089125	1.010039e-05	3.736426e-05	1.269821e-04	3.750845e-04	4.733281e-04	4.873085e-04	1.506298e-04
0.100000	6.923473e-06	2.646461e-05	9.569961e-05	3.012166e-04	3.894736e-04	4.066882e-04	1.233049e-04
0.112202	4.727594e-06	1.864792e-05	7.206947e-05	2.411902e-04	3.197132e-04	3.386289e-04	1.008986e-04
0.125893	3.220347e-06	1.310251e-05	5.433330e-05	1.926826e-04	2.619998e-04	2.815556e-04	8.258288e-05
0.141254	2.196306e-06	9.203606e-06	4.106829e-05	1.536604e-04	2.144391e-04	2.339835e-04	6.754175e-05
0.158489	1.504116e-06	6.481414e-06	3.115713e-05	1.223844e-04	1.753240e-04	1.943988e-04	5.506169e-05

0.177828	1.037335e-06	4.586658e-06	2.374110e-05	9.739529e-05	1.432135e-04	1.613697e-04	4.469826e-05
0.199526	7.227477e-07	3.269602e-06	1.817043e-05	7.747732e-05	1.169073e-04	1.338577e-04	3.619926e-05
0.223872	5.090286e-07	2.350536e-06	1.396537e-05	6.162228e-05	9.538026e-05	1.109568e-04	2.928879e-05
0.251189	3.634840e-07	1.706347e-06	1.077156e-05	4.900618e-05	7.776196e-05	9.189938e-05	2.363625e-05
0.281838	2.626823e-07	1.250388e-06	8.331079e-06	3.896583e-05	6.334055e-05	7.600736e-05	1.896796e-05
0.316228	1.922753e-07	9.245211e-07	6.454068e-06	3.097086e-05	5.153546e-05	6.278602e-05	1.512457e-05
0.354813	1.420761e-07	6.886019e-07	5.003040e-06	2.459816e-05	4.187197e-05	5.178193e-05	1.194859e-05
0.398107	1.059776e-07	5.158690e-07	3.876369e-06	1.951201e-05	3.395912e-05	4.261974e-05	9.340612e-06
0.446684	7.943953e-08	3.879437e-07	2.999074e-06	1.544822e-05	2.747568e-05	3.499247e-05	7.242953e-06
0.501187	5.971275e-08	2.923165e-07	2.314953e-06	1.219997e-05	2.216171e-05	2.863420e-05	5.583812e-06
0.562341	4.488025e-08	2.203108e-07	1.781340e-06	9.604363e-06	1.781171e-05	2.333305e-05	4.284016e-06
0.630957	3.367905e-08	1.658243e-07	1.365444e-06	7.531985e-06	1.425612e-05	1.893738e-05	3.270837e-06
0.707946	2.519540e-08	1.245040e-07	1.041948e-06	5.880044e-06	1.135548e-05	1.529829e-05	2.481207e-06
0.794328	1.876016e-08	9.316128e-08	7.911258e-07	4.566909e-06	8.995643e-06	1.229010e-05	1.868039e-06
0.891251	1.388146e-08	6.947027e-08	5.973321e-07	3.527120e-06	7.083732e-06	9.813979e-06	1.393556e-06
1.000000	1.018881e-08	5.158156e-08	4.482606e-07	2.707539e-06	5.541467e-06	7.783643e-06	1.029809e-06
1.122019	7.413557e-09	3.810067e-08	3.341383e-07	2.064705e-06	4.304003e-06	6.128828e-06	7.530313e-07
1.258925	5.342882e-09	2.796882e-08	2.472691e-07	1.563098e-06	3.317792e-06	4.786227e-06	5.448065e-07
1.412538	3.817532e-09	2.039440e-08	1.815189e-07	1.173934e-06	2.537003e-06	3.707743e-06	3.895190e-07
1.584893	2.699920e-09	1.475915e-08	1.320741e-07	8.739943e-07	1.921562e-06	2.847202e-06	2.752039e-07
1.778279	1.890793e-09	1.059791e-08	9.511697e-08	6.445164e-07	1.440716e-06	2.163723e-06	1.919367e-07
1.995262	1.309111e-09	7.541134e-09	6.770661e-08	4.703687e-07	1.067777e-06	1.626981e-06	1.322096e-07
2.238721	8.965544e-10	5.313188e-09	4.757567e-08	3.394198e-07	7.813724e-07	1.209151e-06	8.981353e-08
2.511886	6.058815e-10	3.699665e-09	3.300526e-08	2.419709e-07	5.636946e-07	8.866104e-07	6.010555e-08
2.818383	4.040161e-10	2.543593e-09	2.261286e-08	1.702630e-07	4.000895e-07	6.403363e-07	3.951249e-08
3.162278	2.649745e-10	1.723180e-09	1.529075e-08	1.181297e-07	2.792775e-07	4.544980e-07	2.546869e-08
3.548134	1.706940e-10	1.148270e-09	1.018547e-08	8.074530e-08	1.906911e-07	3.160384e-07	1.603762e-08
3.981072	1.073113e-10	7.508887e-10	6.667817e-09	5.433998e-08	1.268971e-07	2.144089e-07	9.825018e-09
4.466836	6.583143e-11	4.814882e-10	4.274998e-09	3.595899e-08	8.226719e-08	1.409276e-07	5.802924e-09
5.011872	3.905472e-11	3.018454e-10	2.672820e-09	2.333181e-08	5.156794e-08	8.919023e-08	3.187522e-09
5.623413	2.489743e-11	2.039998e-10	1.799073e-09	1.617573e-08	3.421229e-08	5.890511e-08	1.781048e-09
6.309573	1.074014e-11	1.061542e-10	9.253252e-10	9.019647e-09	1.685663e-08	2.861999e-08	3.745752e-10

Quad Cities (41.73° N, 90.34° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.041044	0.045905	0.089397
0.561009	0.043761	0.048960	0.095355
0.629463	0.046766	0.052343	0.101953
0.706269	0.050184	0.056130	0.109312
0.792447	0.053923	0.060316	0.117466
0.889140	0.058163	0.065067	0.126720
0.997631	0.062967	0.070468	0.137254
1.000000	0.063074	0.070587	0.137484
1.122019	0.068593	0.078765	0.154403
1.258925	0.074564	0.087639	0.172803
1.412538	0.080295	0.096341	0.190942
1.584893	0.085420	0.104500	0.208120

1.778279	0.089547	0.111545	0.223156
1.995262	0.092930	0.117820	0.236753
2.238721	0.095634	0.123183	0.248513
2.500000	0.098227	0.128283	0.259696
2.805046	0.103286	0.141333	0.289471
3.147313	0.111679	0.158299	0.327090
3.531344	0.125979	0.182811	0.379962
3.962233	0.143604	0.211581	0.441433
4.445698	0.159767	0.238045	0.498039
4.988156	0.175478	0.263176	0.551522
5.000000	0.175809	0.263698	0.552630
5.610092	0.185092	0.283459	0.597141
6.294627	0.191937	0.299156	0.632985
7.062688	0.193254	0.305577	0.648902
7.924466	0.195441	0.312711	0.666018
8.891397	0.206114	0.332427	0.709422
9.976312	0.217735	0.352510	0.752996
10.000000	0.217961	0.352901	0.753846
11.220185	0.220428	0.359809	0.770166
12.589254	0.225534	0.370984	0.795612
14.125375	0.228733	0.379072	0.814482
15.848932	0.230686	0.385440	0.829855
17.782794	0.233294	0.392800	0.847323
19.952623	0.236252	0.400776	0.866151
22.387211	0.238554	0.407690	0.882728
25.000000	0.237911	0.405797	0.878200
28.050461	0.235860	0.401335	0.868022
31.473135	0.232323	0.394085	0.851677
35.313439	0.227539	0.384726	0.830780
39.622330	0.220638	0.372026	0.802800
44.456985	0.212621	0.356892	0.769272
49.881558	0.202574	0.337981	0.727411
55.968028	0.190880	0.316183	0.679273
62.797161	0.176876	0.290841	0.623683
70.459573	0.162746	0.265436	0.568046
79.056942	0.148431	0.240086	0.512731
88.703347	0.134794	0.216329	0.461091
99.526793	0.123236	0.197379	0.420487
100.000000	0.112780	0.180933	0.385611