

Catawba (35.05° N, 81.07° 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	1.050506e-02	1.810376e-02	2.691166e-02	2.844334e-02	2.871224e-02	2.840402e-02	2.675705e-02
0.001122	9.891366e-03	1.714408e-02	2.632558e-02	2.815422e-02	2.850287e-02	2.821122e-02	2.614323e-02
0.001259	9.296929e-03	1.620991e-02	2.574330e-02	2.786485e-02	2.829267e-02	2.795229e-02	2.553472e-02
0.001413	8.735455e-03	1.528895e-02	2.508955e-02	2.751499e-02	2.803206e-02	2.764313e-02	2.484975e-02
0.001585	8.204903e-03	1.438210e-02	2.436523e-02	2.710331e-02	2.771941e-02	2.728057e-02	2.408948e-02
0.001778	7.702056e-03	1.349969e-02	2.357151e-02	2.661921e-02	2.734264e-02	2.685479e-02	2.325492e-02
0.001995	7.225449e-03	1.264348e-02	2.271662e-02	2.606757e-02	2.690534e-02	2.636614e-02	2.235536e-02
0.002239	6.770278e-03	1.181978e-02	2.180488e-02	2.543938e-02	2.639600e-02	2.580914e-02	2.139569e-02
0.002512	6.335224e-03	1.102765e-02	2.084008e-02	2.473603e-02	2.581504e-02	2.518250e-02	2.038035e-02
0.002818	5.914867e-03	1.026995e-02	1.983142e-02	2.395335e-02	2.515507e-02	2.448360e-02	1.932044e-02
0.003162	5.508996e-03	9.546100e-03	1.878731e-02	2.309859e-02	2.442185e-02	2.371600e-02	1.822542e-02
0.003548	5.112546e-03	8.855140e-03	1.771866e-02	2.217207e-02	2.361279e-02	2.288235e-02	1.711003e-02
0.003981	4.726083e-03	8.196027e-03	1.663214e-02	2.118128e-02	2.273403e-02	2.198776e-02	1.598144e-02
0.004467	4.346177e-03	7.565165e-03	1.553944e-02	2.013237e-02	2.178968e-02	2.103962e-02	1.485710e-02
0.005012	3.974113e-03	6.961875e-03	1.444619e-02	1.903355e-02	2.078672e-02	2.004486e-02	1.374224e-02
0.005623	3.609108e-03	6.381773e-03	1.336364e-02	1.789717e-02	1.973603e-02	1.901496e-02	1.265411e-02
0.006310	3.253089e-03	5.825088e-03	1.229675e-02	1.673219e-02	1.864551e-02	1.795831e-02	1.159593e-02
0.007079	2.909421e-03	5.288602e-03	1.125580e-02	1.555563e-02	1.753053e-02	1.688817e-02	1.058146e-02
0.007943	2.581101e-03	4.773124e-03	1.024407e-02	1.437491e-02	1.639789e-02	1.581236e-02	9.611212e-03
0.008913	2.266536e-03	4.278399e-03	9.271971e-03	1.321027e-02	1.526555e-02	1.474370e-02	8.694607e-03
0.010000	1.968233e-03	3.805850e-03	8.341608e-03	1.206758e-02	1.413947e-02	1.368913e-02	7.830535e-03
0.011220	1.691165e-03	3.357842e-03	7.462453e-03	1.096551e-02	1.303598e-02	1.265880e-02	7.030872e-03
0.012589	1.435504e-03	2.935988e-03	6.634368e-03	9.906553e-03	1.195872e-02	1.165742e-02	6.281594e-03
0.014125	1.205411e-03	2.546075e-03	5.865925e-03	8.906273e-03	1.092204e-02	1.069274e-02	5.587934e-03
0.015849	9.996099e-04	2.184049e-03	5.153738e-03	7.962629e-03	9.925756e-03	9.767909e-03	4.948147e-03
0.017783	8.205086e-04	1.854839e-03	4.502931e-03	7.084826e-03	8.979632e-03	8.895418e-03	4.365725e-03
0.019953	6.649988e-04	1.557715e-03	3.910599e-03	6.271252e-03	8.084792e-03	8.076490e-03	3.838940e-03
0.022387	5.333979e-04	1.295297e-03	3.377828e-03	5.524786e-03	7.246183e-03	7.304413e-03	3.365709e-03
0.025119	4.223965e-04	1.064210e-03	2.898670e-03	4.840563e-03	6.461238e-03	6.578133e-03	2.938332e-03
0.028184	3.311550e-04	8.654399e-04	2.472150e-03	4.218508e-03	5.732594e-03	5.898605e-03	2.553322e-03
0.031623	2.564136e-04	6.954241e-04	2.093589e-03	3.654518e-03	5.058229e-03	5.265004e-03	2.206187e-03
0.035481	1.967101e-04	5.536840e-04	1.760903e-03	3.147172e-03	4.439287e-03	4.677932e-03	1.896169e-03
0.039811	1.491382e-04	4.355084e-04	1.469214e-03	2.691786e-03	3.872527e-03	4.135763e-03	1.620741e-03
0.044668	1.121558e-04	3.393241e-04	1.216486e-03	2.286963e-03	3.358570e-03	3.638638e-03	1.378933e-03
0.050119	8.343932e-05	2.612402e-04	9.980220e-04	1.927881e-03	2.893494e-03	3.184417e-03	1.167756e-03
0.056234	6.165016e-05	1.994161e-04	8.120185e-04	1.613407e-03	2.477566e-03	2.772800e-03	9.850519e-04
0.063096	4.513810e-05	1.505182e-04	6.541011e-04	1.338676e-03	2.106438e-03	2.401277e-03	8.281503e-04
0.070795	3.288133e-05	1.127452e-04	5.224793e-04	1.102427e-03	1.779742e-03	2.068936e-03	6.929373e-04
0.079433	2.378964e-05	8.360671e-05	4.129466e-04	8.996852e-04	1.492695e-03	1.772885e-03	5.772377e-04
0.089125	1.716451e-05	6.163326e-05	3.236952e-04	7.289116e-04	1.244318e-03	1.511608e-03	4.792069e-04
0.100000	1.233856e-05	4.508098e-05	2.511255e-04	5.853697e-04	1.029821e-03	1.282064e-03	3.964839e-04
0.112202	8.869252e-06	3.285449e-05	1.934101e-04	4.670358e-04	8.474998e-04	1.082262e-03	3.270013e-04
0.125893	6.375669e-06	2.382895e-05	1.475686e-04	3.696243e-04	6.927101e-04	9.08822e-04	2.688647e-04
0.141254	4.595703e-06	1.726979e-05	1.119466e-04	2.910151e-04	5.633856e-04	7.591701e-04	2.203700e-04
0.158489	3.325716e-06	1.250459e-05	8.428144e-05	2.276106e-04	4.554781e-04	6.305469e-04	1.797803e-04

0.177828	2.418819e-06	9.073532e-06	6.320450e-05	1.773563e-04	3.667704e-04	5.209596e-04	1.460700e-04
0.199526	1.770807e-06	6.602776e-06	4.716962e-05	1.375755e-04	2.939768e-04	4.286419e-04	1.183373e-04
0.223872	1.303768e-06	4.824713e-06	3.514667e-05	1.065052e-04	2.349783e-04	3.514839e-04	9.561229e-05
0.251189	9.673616e-07	3.545640e-06	2.613317e-05	8.224079e-05	1.871630e-04	2.872603e-04	7.704734e-05
0.281838	7.213846e-07	2.618378e-06	1.943716e-05	6.345682e-05	1.487964e-04	2.340637e-04	6.192701e-05
0.316228	5.414173e-07	1.945825e-06	1.446382e-05	4.892057e-05	1.180379e-04	1.901657e-04	4.963627e-05
0.354813	4.075040e-07	1.451341e-06	1.077917e-05	3.771119e-05	9.353043e-05	1.540958e-04	3.965167e-05
0.398107	3.078269e-07	1.087709e-06	8.049068e-06	2.906717e-05	7.400938e-05	1.245810e-04	3.156684e-05
0.446684	2.325813e-07	8.163520e-07	6.019547e-06	2.239789e-05	5.850429e-05	1.005208e-04	2.504881e-05
0.501187	1.757689e-07	6.138161e-07	4.510590e-06	1.725191e-05	4.619036e-05	8.094921e-05	1.980314e-05
0.562341	1.325342e-07	4.610183e-07	3.381233e-06	1.327179e-05	3.641757e-05	6.506095e-05	1.558642e-05
0.630957	9.963587e-08	3.457307e-07	2.535878e-06	1.019347e-05	2.866189e-05	5.218269e-05	1.220760e-05
0.707946	7.458198e-08	2.583911e-07	1.899156e-06	7.808872e-06	2.250547e-05	4.175878e-05	9.509774e-06
0.794328	5.550817e-08	1.922339e-07	1.419542e-06	5.961780e-06	1.761938e-05	3.333280e-05	7.362997e-06
0.891251	4.106910e-08	1.422561e-07	1.057323e-06	4.532936e-06	1.374496e-05	2.653105e-05	5.662274e-06
1.000000	3.014738e-08	1.045265e-07	7.838441e-07	3.428134e-06	1.067419e-05	2.104570e-05	4.321769e-06
1.122019	2.197209e-08	7.628230e-08	5.778931e-07	2.578145e-06	8.248348e-06	1.662936e-05	3.272128e-06
1.258925	1.585833e-08	5.515706e-08	4.228908e-07	1.924611e-06	6.333234e-06	1.307902e-05	2.456263e-06
1.412538	1.135357e-08	3.956801e-08	3.072249e-07	1.426829e-06	4.831826e-06	1.023323e-05	1.826619e-06
1.584893	8.035569e-09	2.806804e-08	2.209346e-07	1.047741e-06	3.655216e-06	7.957142e-06	1.344473e-06
1.778279	5.633897e-09	1.972422e-08	1.574164e-07	7.627099e-07	2.742372e-06	6.145032e-06	9.787856e-07
1.995262	3.899849e-09	1.368592e-08	1.107727e-07	5.489065e-07	2.036001e-06	4.707747e-06	7.042291e-07
2.238721	2.671543e-09	9.397145e-09	7.710246e-08	3.909735e-07	1.496319e-06	3.574956e-06	5.003409e-07
2.511886	1.802067e-09	6.353087e-09	5.281604e-08	2.743925e-07	1.084492e-06	2.686464e-06	3.506282e-07
2.818383	1.199601e-09	4.237992e-09	3.566423e-08	1.899294e-07	7.751493e-07	1.995081e-06	2.419439e-07
3.162278	7.830789e-10	2.771714e-09	2.358212e-08	1.288723e-07	5.435085e-07	1.460371e-06	1.640535e-07
3.548134	5.016370e-10	1.778438e-09	1.527354e-08	8.566661e-08	3.731247e-07	1.050837e-06	1.090031e-07
3.981072	3.118166e-10	1.106858e-09	9.572936e-09	5.515716e-08	2.482010e-07	7.396249e-07	7.065737e-08
4.466836	1.891729e-10	6.722926e-10	5.852777e-09	3.457936e-08	1.605177e-07	5.076672e-07	4.449381e-08
5.011872	1.099323e-10	3.910940e-10	3.425037e-09	2.070026e-08	9.903832e-08	3.372460e-07	2.709971e-08
5.623413	6.773527e-11	2.410347e-10	2.114152e-09	1.285302e-08	6.232849e-08	2.304965e-07	1.764941e-08
6.309573	2.553821e-11	9.097547e-11	8.032671e-10	5.005774e-09	2.561865e-08	1.237470e-07	8.199120e-09

Catawba (35.05° N, 81.07° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.046708	0.054638	0.107604
0.561009	0.051118	0.060267	0.118923
0.629463	0.055625	0.065734	0.129787
0.706269	0.060146	0.071091	0.140371
0.792447	0.064739	0.076395	0.150783
0.889140	0.069385	0.081683	0.161124
0.997631	0.074045	0.086994	0.171515
1.000000	0.074141	0.087104	0.171729
1.122019	0.082660	0.100078	0.198796
1.258925	0.091577	0.112533	0.224369
1.412538	0.100716	0.124590	0.248824
1.584893	0.110020	0.136417	0.272603

1.778279	0.119397	0.148118	0.296021
1.995262	0.128910	0.159801	0.319312
2.238721	0.138554	0.171573	0.342743
2.500000	0.147869	0.182980	0.365464
2.805046	0.159699	0.202984	0.408143
3.147313	0.172305	0.223589	0.451908
3.531344	0.185667	0.244766	0.496668
3.962233	0.199781	0.266453	0.542250
4.445698	0.214632	0.288682	0.588725
4.988156	0.230244	0.311505	0.636202
5.000000	0.230572	0.311979	0.637185
5.610092	0.245528	0.338810	0.695393
6.294627	0.261892	0.367011	0.756186
7.062688	0.279702	0.396608	0.819576
7.924466	0.298898	0.427572	0.885506
8.891397	0.319637	0.459868	0.953758
9.976312	0.342752	0.495137	1.027953
10.000000	0.343265	0.495906	1.029564
11.220185	0.352206	0.512455	1.065815
12.589254	0.362562	0.531112	1.106491
14.125375	0.373329	0.550616	1.149076
15.848932	0.386673	0.574539	1.201224
17.782794	0.404255	0.605133	1.267538
19.952623	0.424901	0.640250	1.343310
22.387211	0.447919	0.679293	1.427520
25.000000	0.463536	0.703057	1.477502
28.050461	0.475075	0.720871	1.515104
31.473135	0.480513	0.729505	1.533451
35.313439	0.477690	0.725594	1.525428
39.622330	0.466559	0.709195	1.491218
44.456985	0.451387	0.686019	1.442427
49.881558	0.431364	0.655397	1.377942
55.968028	0.406978	0.618143	1.299510
62.797161	0.379081	0.575730	1.210325
70.459573	0.347111	0.527014	1.107825
79.056942	0.309970	0.469754	0.987004
88.703347	0.272388	0.411576	0.864125
99.526793	0.241237	0.363548	0.762786
100.000000	0.218514	0.329607	0.691730