

Susquehanna (41.09° N, 76.15° 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	4.617096e-03	7.755986e-03	1.134984e-02	1.179109e-02	1.173100e-02	1.137516e-02	1.030314e-02
0.001122	4.279379e-03	7.304801e-03	1.103680e-02	1.163630e-02	1.164783e-02	1.122703e-02	1.003797e-02
0.001259	3.954414e-03	6.866806e-03	1.072618e-02	1.142880e-02	1.150752e-02	1.099835e-02	9.663547e-03
0.001413	3.638295e-03	6.427366e-03	1.037830e-02	1.118261e-02	1.130351e-02	1.074025e-02	9.268653e-03
0.001585	3.331108e-03	5.987516e-03	9.993973e-03	1.090483e-02	1.106477e-02	1.045980e-02	8.847748e-03
0.001778	3.033537e-03	5.550209e-03	9.572317e-03	1.059174e-02	1.080116e-02	1.015558e-02	8.404384e-03
0.001995	2.746891e-03	5.118388e-03	9.118723e-03	1.024496e-02	1.051142e-02	9.829216e-03	7.943384e-03
0.002239	2.472181e-03	4.694449e-03	8.634492e-03	9.864736e-03	1.019555e-02	9.482129e-03	7.470461e-03
0.002512	2.209533e-03	4.279430e-03	8.122853e-03	9.452487e-03	9.854409e-03	9.115453e-03	6.989128e-03
0.002818	1.960777e-03	3.876443e-03	7.589303e-03	9.010761e-03	9.489016e-03	8.731040e-03	6.505265e-03
0.003162	1.726438e-03	3.487443e-03	7.040066e-03	8.543698e-03	9.101261e-03	8.331464e-03	6.023531e-03
0.003548	1.508463e-03	3.115763e-03	6.483430e-03	8.056473e-03	8.693657e-03	7.919756e-03	5.549738e-03
0.003981	1.306550e-03	2.762295e-03	5.924452e-03	7.553734e-03	8.269134e-03	7.498606e-03	5.087293e-03
0.004467	1.122503e-03	2.430611e-03	5.373427e-03	7.041980e-03	7.831133e-03	7.071410e-03	4.640780e-03
0.005012	9.553322e-04	2.120648e-03	4.834011e-03	6.525929e-03	7.382940e-03	6.640932e-03	4.212487e-03
0.005623	8.063138e-04	1.835694e-03	4.316635e-03	6.012453e-03	6.928524e-03	6.210747e-03	3.805646e-03
0.006310	6.739114e-04	1.574753e-03	3.823186e-03	5.505882e-03	6.471378e-03	5.783589e-03	3.421487e-03
0.007079	5.586563e-04	1.340164e-03	3.362166e-03	5.012362e-03	6.015567e-03	5.362824e-03	3.061908e-03
0.007943	4.585728e-04	1.129898e-03	2.933134e-03	4.535049e-03	5.564339e-03	4.950712e-03	2.727066e-03
0.008913	3.733952e-04	9.451900e-04	2.541908e-03	4.078869e-03	5.121458e-03	4.550179e-03	2.417817e-03
0.010000	3.010897e-04	7.833940e-04	2.186331e-03	3.645872e-03	4.689742e-03	4.163096e-03	2.133643e-03
0.011220	2.409959e-04	6.445149e-04	1.869069e-03	3.239408e-03	4.272392e-03	3.791748e-03	1.874947e-03
0.012589	1.911409e-04	5.255615e-04	1.586655e-03	2.860193e-03	3.871570e-03	3.437333e-03	1.642120e-03
0.014125	1.506376e-04	4.257721e-04	1.339571e-03	2.510346e-03	3.489825e-03	3.101657e-03	1.432618e-03
0.015849	1.177957e-04	3.420847e-04	1.123578e-03	2.189254e-03	3.128454e-03	2.785064e-03	1.244570e-03
0.017783	9.167503e-05	2.732321e-04	9.375486e-04	1.897678e-03	2.789179e-03	2.490515e-03	1.076972e-03
0.019953	7.089660e-05	2.167194e-04	7.777462e-04	1.634630e-03	2.472749e-03	2.217665e-03	9.283625e-04
0.022387	5.462552e-05	1.710936e-04	6.421802e-04	1.399833e-03	2.180166e-03	1.965509e-03	7.974943e-04
0.025119	4.189141e-05	1.342709e-04	5.272251e-04	1.191337e-03	1.911787e-03	1.733463e-03	6.826951e-04
0.028184	3.205021e-05	1.049721e-04	4.308498e-04	1.008440e-03	1.667871e-03	1.521430e-03	5.825657e-04
0.031623	2.444871e-05	8.169248e-05	3.501871e-04	8.487378e-04	1.447510e-03	1.328750e-03	4.956024e-04
0.035481	1.862944e-05	6.341654e-05	2.833962e-04	7.104977e-04	1.249616e-03	1.155018e-03	4.204633e-04
0.039811	1.417553e-05	4.905762e-05	2.281469e-04	5.914186e-04	1.072884e-03	9.992006e-04	3.557693e-04
0.044668	1.078492e-05	3.787338e-05	1.829299e-04	4.898532e-04	9.163612e-04	8.605163e-04	3.002987e-04
0.050119	8.203460e-06	2.916411e-05	1.459527e-04	4.036344e-04	7.785845e-04	7.377251e-04	2.528796e-04
0.056234	6.242226e-06	2.242681e-05	1.160325e-04	3.311229e-04	6.582940e-04	6.298157e-04	2.124780e-04
0.063096	4.752199e-06	1.721448e-05	9.184219e-05	2.704090e-04	5.538993e-04	5.354722e-04	1.781011e-04
0.070795	3.620029e-06	1.320069e-05	7.247916e-05	2.200001e-04	4.639979e-04	4.535655e-04	1.485339e-04
0.079433	2.759764e-06	1.011009e-05	5.698360e-05	1.783089e-04	3.870156e-04	3.827927e-04	1.233656e-04
0.089125	2.105300e-06	7.738577e-06	4.469727e-05	1.440788e-04	3.215580e-04	3.220226e-04	1.022369e-04
0.100000	1.607380e-06	5.918967e-06	3.495987e-05	1.160593e-04	2.661882e-04	2.700673e-04	8.453440e-05
0.112202	1.227950e-06	4.526004e-06	2.729899e-05	9.324081e-05	2.196386e-04	2.258999e-04	6.973624e-05
0.125893	9.388190e-07	3.459705e-06	2.127282e-05	7.471783e-05	1.806629e-04	1.884609e-04	5.738536e-05
0.141254	7.180970e-07	2.644501e-06	1.655849e-05	5.976205e-05	1.481620e-04	1.567472e-04	4.709198e-05
0.158489	5.495999e-07	2.021260e-06	1.287072e-05	4.771155e-05	1.211479e-04	1.299799e-04	3.852507e-05

0.177828	4.207308e-07	1.544857e-06	9.995410e-06	3.802965e-05	9.880335e-05	1.075298e-04	3.142441e-05
0.199526	3.221599e-07	1.180694e-06	7.754134e-06	3.026073e-05	8.041340e-05	8.878592e-05	2.555051e-05
0.223872	2.466197e-07	9.021169e-07	6.009804e-06	2.404031e-05	6.532844e-05	7.318062e-05	2.070504e-05
0.251189	1.887248e-07	6.890001e-07	4.652248e-06	1.906471e-05	5.297866e-05	6.021251e-05	1.671475e-05
0.281838	1.442796e-07	5.257803e-07	3.596530e-06	1.509006e-05	4.288688e-05	4.944900e-05	1.343799e-05
0.316228	1.101645e-07	4.007733e-07	2.775679e-06	1.191721e-05	3.465182e-05	4.052441e-05	1.075357e-05
0.354813	8.395648e-08	3.049641e-07	2.137971e-06	9.387785e-06	2.794298e-05	3.313760e-05	8.564523e-06
0.398107	6.382283e-08	2.315394e-07	1.642628e-06	7.373279e-06	2.248408e-05	2.703276e-05	6.784993e-06
0.446684	4.837057e-08	1.753050e-07	1.258522e-06	5.772262e-06	1.804739e-05	2.199489e-05	5.345489e-06
0.501187	3.651379e-08	1.322433e-07	9.607518e-07	4.501438e-06	1.444503e-05	1.784257e-05	4.185242e-06
0.562341	2.744727e-08	9.936440e-08	7.306596e-07	3.495928e-06	1.152454e-05	1.442554e-05	3.256139e-06
0.630957	2.051757e-08	7.427045e-08	5.529521e-07	2.701889e-06	9.160370e-06	1.161739e-05	2.515116e-06
0.707946	1.525423e-08	5.522790e-08	4.164122e-07	2.077603e-06	7.250902e-06	9.315481e-06	1.928645e-06
0.794328	1.125843e-08	4.078351e-08	3.115582e-07	1.588030e-06	5.712077e-06	7.432921e-06	1.466641e-06
0.891251	8.253906e-09	2.992119e-08	2.316496e-07	1.206316e-06	4.476116e-06	5.898411e-06	1.105918e-06
1.000000	5.996706e-09	2.175946e-08	1.708087e-07	9.096842e-07	3.486454e-06	4.651295e-06	8.259131e-07
1.122019	4.321485e-09	1.569749e-08	1.249508e-07	6.807877e-07	2.697640e-06	3.642299e-06	6.108108e-07
1.258925	3.079326e-09	1.119908e-08	9.042451e-08	5.048818e-07	2.071381e-06	2.829166e-06	4.464322e-07
1.412538	2.172351e-09	7.910439e-09	6.477803e-08	3.708516e-07	1.576990e-06	2.177643e-06	3.223508e-07
1.584893	1.510337e-09	5.506912e-09	4.573961e-08	2.691780e-07	1.188586e-06	1.657835e-06	2.293252e-07
1.778279	1.035466e-09	3.780058e-09	3.183628e-08	1.927983e-07	8.855066e-07	1.245783e-06	1.604048e-07
1.995262	6.956483e-10	2.542531e-09	2.171109e-08	1.357643e-07	6.505004e-07	9.211507e-07	1.098514e-07
2.238721	4.570224e-10	1.672212e-09	1.446720e-08	9.365888e-08	4.696987e-07	6.673519e-07	7.323763e-08
2.511886	2.895584e-10	1.060517e-09	9.290700e-09	6.276067e-08	3.316061e-07	4.701478e-07	4.698577e-08
2.818383	1.744766e-10	6.395916e-10	5.669497e-09	4.037295e-08	2.270709e-07	3.182261e-07	2.847106e-08
3.162278	1.084676e-10	3.977588e-10	3.542483e-09	2.659057e-08	1.585177e-07	2.159332e-07	1.742731e-08
3.548134	4.245858e-11	1.559260e-10	1.415469e-09	1.280820e-08	8.996447e-08	1.136404e-07	6.383571e-09

Susquehanna (41.09° N, 76.15° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.017087	0.022685	0.046112
0.561009	0.018877	0.025364	0.051713
0.629463	0.020734	0.028043	0.057268
0.706269	0.022659	0.030733	0.062807
0.792447	0.024634	0.033446	0.068369
0.889140	0.026671	0.036198	0.073987
0.997631	0.028775	0.039001	0.079690
1.000000	0.028819	0.039059	0.079808
1.122019	0.032160	0.044742	0.092019
1.258925	0.035733	0.050435	0.104102
1.412538	0.039491	0.056159	0.116135
1.584893	0.043423	0.061941	0.128191
1.778279	0.047507	0.067812	0.140364
1.995262	0.051747	0.073791	0.152703
2.238721	0.056149	0.079917	0.165301
2.500000	0.060506	0.085988	0.177791
2.805046	0.066584	0.096784	0.201243

3.147313	0.073398	0.108419	0.226345
3.531344	0.080893	0.120791	0.252859
3.962233	0.088996	0.133845	0.280686
4.445698	0.097992	0.148078	0.310904
4.988156	0.108147	0.163818	0.344159
5.000000	0.108368	0.164158	0.344875
5.610092	0.117579	0.180987	0.381757
6.294627	0.128023	0.199693	0.422613
7.062688	0.139578	0.220046	0.466926
7.924466	0.151938	0.241514	0.513539
8.891397	0.164331	0.262728	0.559453
9.976312	0.176372	0.282907	0.602916
10.000000	0.176623	0.283323	0.603811
11.220185	0.176995	0.285912	0.610394
12.589254	0.176450	0.287147	0.614167
14.125375	0.175514	0.287861	0.616896
15.848932	0.175227	0.289764	0.622251
17.782794	0.176716	0.294771	0.634377
19.952623	0.180213	0.303301	0.654193
22.387211	0.185760	0.315571	0.682252
25.000000	0.189386	0.321795	0.695740
28.050461	0.190299	0.323215	0.698742
31.473135	0.189421	0.321561	0.695077
35.313439	0.188085	0.319305	0.690207
39.622330	0.185039	0.314189	0.679178
44.456985	0.180116	0.305889	0.661269
49.881558	0.173059	0.294194	0.636142
55.968028	0.163269	0.277730	0.600639
62.797161	0.151095	0.257205	0.556349
70.459573	0.137665	0.233809	0.505455
79.056942	0.123244	0.208427	0.450103
88.703347	0.110387	0.185992	0.401282
99.526793	0.099392	0.167286	0.360825
100.000000	0.090327	0.152084	0.328065