

North Anna (38.06° N, 77.79° 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	5.181724e-03	8.670951e-03	1.197237e-02	1.250108e-02	1.259256e-02	1.246254e-02	1.185361e-02
0.001122	4.843372e-03	8.262679e-03	1.176580e-02	1.246601e-02	1.259177e-02	1.245678e-02	1.183344e-02
0.001259	4.516439e-03	7.864250e-03	1.155948e-02	1.238599e-02	1.258371e-02	1.242367e-02	1.170718e-02
0.001413	4.198154e-03	7.459961e-03	1.132562e-02	1.227855e-02	1.255996e-02	1.234856e-02	1.149718e-02
0.001585	3.888433e-03	7.050598e-03	1.106401e-02	1.214912e-02	1.251971e-02	1.224409e-02	1.124574e-02
0.001778	3.587837e-03	6.639253e-03	1.077296e-02	1.199566e-02	1.245862e-02	1.211631e-02	1.096599e-02
0.001995	3.297292e-03	6.228411e-03	1.045536e-02	1.181571e-02	1.237302e-02	1.196490e-02	1.065600e-02
0.002239	3.017251e-03	5.820373e-03	1.011007e-02	1.160761e-02	1.226342e-02	1.178854e-02	1.031731e-02
0.002512	2.747688e-03	5.415942e-03	9.738231e-03	1.136971e-02	1.213145e-02	1.158606e-02	9.952093e-03
0.002818	2.489545e-03	5.017457e-03	9.340246e-03	1.110050e-02	1.197520e-02	1.135628e-02	9.562462e-03
0.003162	2.243310e-03	4.626681e-03	8.919593e-03	1.079960e-02	1.179241e-02	1.109860e-02	9.151594e-03
0.003548	2.010134e-03	4.245751e-03	8.477865e-03	1.046743e-02	1.158137e-02	1.081328e-02	8.723373e-03
0.003981	1.790014e-03	3.875787e-03	8.018337e-03	1.010496e-02	1.134109e-02	1.050152e-02	8.282568e-03
0.004467	1.584316e-03	3.519143e-03	7.544349e-03	9.713956e-03	1.107099e-02	1.016515e-02	7.833457e-03
0.005012	1.392627e-03	3.176489e-03	7.059186e-03	9.296719e-03	1.077133e-02	9.806615e-03	7.380934e-03
0.005623	1.216287e-03	2.850441e-03	6.568014e-03	8.856500e-03	1.044316e-02	9.428922e-03	6.929071e-03
0.006310	1.054511e-03	2.541258e-03	6.074158e-03	8.396994e-03	1.008823e-02	9.035488e-03	6.482293e-03
0.007079	9.082999e-04	2.251508e-03	5.584022e-03	7.922725e-03	9.709003e-03	8.630092e-03	6.043990e-03
0.007943	7.764254e-04	1.980724e-03	5.100115e-03	7.438175e-03	9.308528e-03	8.216546e-03	5.617514e-03
0.008913	6.594627e-04	1.731279e-03	4.629718e-03	6.948440e-03	8.890376e-03	7.798652e-03	5.205118e-03
0.010000	5.559325e-04	1.502146e-03	4.174617e-03	6.458422e-03	8.458410e-03	7.379903e-03	4.808905e-03
0.011220	4.658655e-04	1.294978e-03	3.741534e-03	5.973195e-03	8.016796e-03	6.963607e-03	4.430129e-03
0.012589	3.876167e-04	1.108076e-03	3.330837e-03	5.497163e-03	7.569625e-03	6.552543e-03	4.074070e-03
0.014125	3.208549e-04	9.424698e-04	2.948510e-03	5.034741e-03	7.120956e-03	6.149101e-03	3.745061e-03
0.015849	2.639050e-04	7.958140e-04	2.593021e-03	4.589368e-03	6.674536e-03	5.755051e-03	3.438469e-03
0.017783	2.161346e-04	6.682359e-04	2.268285e-03	4.163983e-03	6.233860e-03	5.371835e-03	3.149728e-03
0.019953	1.761252e-04	5.575398e-04	1.972677e-03	3.761015e-03	5.801859e-03	5.002983e-03	2.877930e-03
0.022387	1.430958e-04	4.630521e-04	1.707877e-03	3.382396e-03	5.381182e-03	4.650695e-03	2.622812e-03
0.025119	1.158269e-04	3.824124e-04	1.471118e-03	3.029178e-03	4.974097e-03	4.313487e-03	2.384105e-03
0.028184	9.357960e-05	3.146171e-04	1.262017e-03	2.703348e-03	4.583080e-03	3.990470e-03	2.161294e-03
0.031623	7.543890e-05	2.576877e-04	1.077667e-03	2.403939e-03	4.209927e-03	3.681232e-03	1.953825e-03
0.035481	6.076898e-05	2.104720e-04	9.169728e-04	2.129882e-03	3.855627e-03	3.385820e-03	1.761186e-03
0.039811	4.890635e-05	1.713250e-04	7.770140e-04	1.879694e-03	3.520754e-03	3.104446e-03	1.582874e-03
0.044668	3.935786e-05	1.391771e-04	6.562396e-04	1.652379e-03	3.205333e-03	2.837319e-03	1.418355e-03
0.050119	3.167207e-05	1.127802e-04	5.520820e-04	1.446805e-03	2.908705e-03	2.584578e-03	1.267032e-03
0.056234	2.549321e-05	9.124998e-05	4.629454e-04	1.261725e-03	2.630353e-03	2.346325e-03	1.128305e-03
0.063096	2.052581e-05	7.369085e-05	3.867129e-04	1.095856e-03	2.370038e-03	2.122588e-03	1.001529e-03
0.070795	1.652803e-05	5.943158e-05	3.218938e-04	9.478567e-04	2.127590e-03	1.913343e-03	8.859570e-04
0.079433	1.331059e-05	4.785231e-05	2.667677e-04	8.164066e-04	1.902711e-03	1.718474e-03	7.797861e-04
0.089125	1.071603e-05	3.847615e-05	2.202994e-04	7.001593e-04	1.695043e-03	1.537781e-03	6.811390e-04
0.100000	8.623787e-06	3.088458e-05	1.811646e-04	5.977961e-04	1.504095e-03	1.370973e-03	5.909455e-04
0.112202	6.933809e-06	2.475175e-05	1.484353e-04	5.079471e-04	1.329330e-03	1.217707e-03	5.102384e-04
0.125893	5.568787e-06	1.979766e-05	1.210648e-04	4.294983e-04	1.170093e-03	1.077562e-03	4.386140e-04
0.141254	4.465834e-06	1.580607e-05	9.837031e-05	3.613937e-04	1.025636e-03	9.498846e-04	3.753393e-04
0.158489	3.574442e-06	1.258932e-05	7.956807e-05	3.026543e-04	8.950710e-04	8.336742e-04	3.196496e-04

0.177828	2.854790e-06	1.000471e-05	6.411115e-05	2.522117e-04	7.775399e-04	7.279689e-04	2.707214e-04
0.199526	2.274100e-06	7.929191e-06	5.142823e-05	2.091295e-04	6.721974e-04	6.323016e-04	2.278372e-04
0.223872	1.806640e-06	6.268163e-06	4.109934e-05	1.725453e-04	5.782049e-04	5.464400e-04	1.906147e-04
0.251189	1.430283e-06	4.938685e-06	3.269554e-05	1.416654e-04	4.948096e-04	4.699923e-04	1.585933e-04
0.281838	1.128437e-06	3.879035e-06	2.590912e-05	1.157196e-04	4.213401e-04	4.023758e-04	1.312162e-04
0.316228	8.865025e-07	3.034921e-06	2.043954e-05	9.404579e-05	3.570380e-04	3.428872e-04	1.079296e-04
0.354813	6.936007e-07	2.365850e-06	1.606166e-05	7.603404e-05	3.010817e-04	2.907821e-04	8.821180e-05
0.398107	5.398654e-07	1.835718e-06	1.256348e-05	6.115970e-05	2.526394e-04	2.453625e-04	7.157703e-05
0.446684	4.181912e-07	1.418260e-06	9.786979e-06	4.893786e-05	2.109099e-04	2.059905e-04	5.765960e-05
0.501187	3.219395e-07	1.089645e-06	7.587018e-06	3.895494e-05	1.751553e-04	1.720569e-04	4.612912e-05
0.562341	2.464802e-07	8.329566e-07	5.854916e-06	3.084123e-05	1.447075e-04	1.429709e-04	3.662571e-05
0.630957	1.873760e-07	6.325606e-07	4.493417e-06	2.428865e-05	1.189293e-04	1.181688e-04	2.884146e-05
0.707946	1.415915e-07	4.775864e-07	3.431510e-06	1.902423e-05	9.722403e-05	9.712862e-05	2.253204e-05
0.794328	1.061142e-07	3.578183e-07	2.604040e-06	1.482059e-05	7.904267e-05	7.937704e-05	1.744756e-05
0.891251	7.891663e-08	2.664423e-07	1.964703e-06	1.148025e-05	6.389737e-05	6.448481e-05	1.338544e-05
1.000000	5.813675e-08	1.968686e-07	1.471703e-06	8.840500e-06	5.135332e-05	5.206200e-05	1.016811e-05
1.122019	4.249402e-08	1.445526e-07	1.095153e-06	6.765631e-06	4.102204e-05	4.175908e-05	7.654073e-06
1.258925	3.072924e-08	1.051304e-07	8.082860e-07	5.145106e-06	3.256193e-05	3.326590e-05	5.706005e-06
1.412538	2.203459e-08	7.582766e-08	5.923152e-07	3.886143e-06	2.567884e-05	2.630818e-05	4.205661e-06
1.584893	1.561033e-08	5.404469e-08	4.300200e-07	2.915566e-06	2.011144e-05	2.064622e-05	3.066634e-06
1.778279	1.095297e-08	3.812811e-08	3.103924e-07	2.171136e-06	1.563529e-05	1.607227e-05	2.211061e-06
1.995262	7.584699e-09	2.650700e-08	2.227164e-07	1.604508e-06	1.206155e-05	1.240466e-05	1.575579e-06
2.238721	5.197348e-09	1.822649e-08	1.584281e-07	1.176194e-06	9.229124e-06	9.484805e-06	1.109098e-06
2.511886	3.506035e-09	1.234192e-08	1.110447e-07	8.551245e-07	6.997904e-06	7.177702e-06	7.710569e-07
2.818383	2.334004e-09	8.245271e-09	7.696317e-08	6.161353e-07	5.253478e-06	5.369582e-06	5.295493e-07
3.162278	1.523480e-09	5.402515e-09	5.257912e-08	4.399269e-07	3.901285e-06	3.964341e-06	3.587993e-07
3.548134	9.759764e-10	3.473247e-09	3.540905e-08	3.109474e-07	2.861994e-06	2.881817e-06	2.393708e-07
3.981072	6.066260e-10	2.167452e-09	2.337264e-08	2.167690e-07	2.070460e-06	2.056348e-06	1.571130e-07
4.466836	3.680998e-10	1.319807e-09	1.513687e-08	1.481083e-07	1.473409e-06	1.435052e-06	1.011875e-07
5.011872	2.141081e-10	7.712390e-10	9.537276e-09	9.883356e-08	1.028383e-06	9.757298e-07	6.372087e-08
5.623413	1.323040e-10	4.788656e-10	6.358313e-09	6.933180e-08	7.458792e-07	6.930193e-07	4.348659e-08
6.309573	5.049995e-11	1.864921e-10	3.179349e-09	3.983004e-08	4.633754e-07	4.103088e-07	2.325231e-08

North Anna (38.06° N, 77.79° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.027192	0.043429	0.092453
0.561009	0.031219	0.050117	0.106828
0.629463	0.035389	0.056742	0.120913
0.706269	0.039681	0.063370	0.134902
0.792447	0.044111	0.070057	0.148932
0.889140	0.048677	0.076846	0.163119
0.997631	0.053405	0.083784	0.177568
1.000000	0.053504	0.083929	0.177869
1.122019	0.062686	0.099956	0.212706
1.258925	0.072448	0.115594	0.246021
1.412538	0.082653	0.130997	0.278338
1.584893	0.093242	0.146281	0.310022

1.778279	0.104173	0.161613	0.341561
1.995262	0.115480	0.177227	0.373548
2.238721	0.127413	0.193708	0.407327
2.500000	0.139972	0.210820	0.442272
2.805046	0.160354	0.244034	0.513279
3.147313	0.182552	0.278324	0.585670
3.531344	0.207530	0.315495	0.663410
3.962233	0.236250	0.356402	0.747986
4.445698	0.268383	0.401395	0.840596
4.988156	0.305633	0.453236	0.947144
5.000000	0.306466	0.454380	0.949488
5.610092	0.348006	0.522737	1.095895
6.294627	0.398269	0.603607	1.268263
7.062688	0.460600	0.701225	1.475034
7.924466	0.535304	0.813776	1.711165
8.891397	0.616274	0.928436	1.947858
9.976312	0.695002	1.032465	2.158532
10.000000	0.696650	1.034584	2.162790
11.220185	0.717772	1.063572	2.222149
12.589254	0.723807	1.072202	2.240015
14.125375	0.714343	1.059783	2.214906
15.848932	0.699018	1.040178	2.175571
17.782794	0.685671	1.024163	2.144092
19.952623	0.683067	1.023345	2.143990
22.387211	0.695938	1.044196	2.188496
25.000000	0.701761	1.051226	2.202337
28.050461	0.706454	1.054651	2.207629
31.473135	0.703159	1.046420	2.188669
35.313439	0.689471	1.022482	2.136740
39.622330	0.668621	0.989583	2.066955
44.456985	0.647124	0.957226	1.999089
49.881558	0.623805	0.920785	1.921969
55.968028	0.588884	0.869250	1.814404
62.797161	0.548611	0.808589	1.687152
70.459573	0.501435	0.737930	1.539134
79.056942	0.450468	0.661086	1.377900
88.703347	0.403123	0.589673	1.228048
99.526793	0.362973	0.530061	1.103443
100.000000	0.330303	0.483372	1.006781