

Dresden (41.39° N, 88.27° 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	6.404577e-03	1.085741e-02	1.644309e-02	1.756563e-02	1.778427e-02	1.752109e-02	1.620672e-02
0.001122	6.071907e-03	1.057359e-02	1.640161e-02	1.753553e-02	1.778419e-02	1.752057e-02	1.620615e-02
0.001259	5.722551e-03	1.010360e-02	1.617315e-02	1.745058e-02	1.778350e-02	1.751750e-02	1.618958e-02
0.001413	5.393019e-03	9.563044e-03	1.581167e-02	1.731920e-02	1.777907e-02	1.750472e-02	1.608324e-02
0.001585	5.082951e-03	9.016279e-03	1.538259e-02	1.714516e-02	1.775937e-02	1.745515e-02	1.582680e-02
0.001778	4.791132e-03	8.483592e-03	1.491022e-02	1.692609e-02	1.770311e-02	1.729963e-02	1.543477e-02
0.001995	4.516464e-03	7.967863e-03	1.439943e-02	1.666024e-02	1.759483e-02	1.708099e-02	1.496132e-02
0.002239	4.256851e-03	7.471976e-03	1.385408e-02	1.634635e-02	1.743592e-02	1.682525e-02	1.444379e-02
0.002512	4.011343e-03	6.997025e-03	1.327895e-02	1.598458e-02	1.723360e-02	1.652968e-02	1.389021e-02
0.002818	3.776969e-03	6.544297e-03	1.267826e-02	1.557669e-02	1.699083e-02	1.619223e-02	1.330572e-02
0.003162	3.553077e-03	6.114069e-03	1.205769e-02	1.512522e-02	1.670696e-02	1.581318e-02	1.269642e-02
0.003548	3.336048e-03	5.706300e-03	1.142307e-02	1.463312e-02	1.638050e-02	1.539276e-02	1.206853e-02
0.003981	3.125632e-03	5.320368e-03	1.078122e-02	1.410368e-02	1.601032e-02	1.493190e-02	1.142829e-02
0.004467	2.918156e-03	4.954803e-03	1.013777e-02	1.354076e-02	1.559617e-02	1.443302e-02	1.078196e-02
0.005012	2.713834e-03	4.608263e-03	9.498928e-03	1.294898e-02	1.513897e-02	1.389997e-02	1.013522e-02
0.005623	2.509910e-03	4.278152e-03	8.869417e-03	1.233335e-02	1.464103e-02	1.333749e-02	9.492729e-03
0.006310	2.307257e-03	3.962773e-03	8.254049e-03	1.169944e-02	1.410573e-02	1.275030e-02	8.858168e-03
0.007079	2.104891e-03	3.659073e-03	7.656070e-03	1.105272e-02	1.353733e-02	1.214400e-02	8.234216e-03
0.007943	1.904604e-03	3.365425e-03	7.078055e-03	1.039866e-02	1.294077e-02	1.152357e-02	7.622862e-03
0.008913	1.708695e-03	3.079382e-03	6.521254e-03	9.742179e-03	1.232146e-02	1.089453e-02	7.025595e-03
0.010000	1.517158e-03	2.800199e-03	5.985861e-03	9.087801e-03	1.168503e-02	1.026144e-02	6.443715e-03
0.011220	1.332617e-03	2.527080e-03	5.471619e-03	8.439449e-03	1.103701e-02	9.628817e-03	5.878719e-03
0.012589	1.156322e-03	2.260525e-03	4.977180e-03	7.800454e-03	1.038262e-02	9.000221e-03	5.332552e-03
0.014125	9.917108e-04	2.002530e-03	4.501766e-03	7.173800e-03	9.726627e-03	8.379128e-03	4.808957e-03
0.015849	8.390325e-04	1.755663e-03	4.044506e-03	6.562154e-03	9.073281e-03	7.768431e-03	4.313360e-03
0.017783	7.006457e-04	1.521669e-03	3.605202e-03	5.967979e-03	8.426325e-03	7.170874e-03	3.846270e-03
0.019953	5.765202e-04	1.302268e-03	3.184799e-03	5.394044e-03	7.789078e-03	6.589028e-03	3.407515e-03
0.022387	4.684671e-04	1.100204e-03	2.785795e-03	4.843356e-03	7.164578e-03	6.025774e-03	2.999772e-03
0.025119	3.751341e-04	9.166703e-04	2.412213e-03	4.319193e-03	6.555679e-03	5.480707e-03	2.625545e-03
0.028184	2.964531e-04	7.532845e-04	2.066181e-03	3.825110e-03	5.965237e-03	4.961819e-03	2.285933e-03
0.031623	2.308602e-04	6.102036e-04	1.749865e-03	3.364227e-03	5.396391e-03	4.471893e-03	1.980997e-03
0.035481	1.776075e-04	4.875232e-04	1.464307e-03	2.937843e-03	4.852829e-03	4.010538e-03	1.709700e-03
0.039811	1.347688e-04	3.839061e-04	1.211192e-03	2.547341e-03	4.338536e-03	3.578436e-03	1.470291e-03
0.044668	1.011053e-04	2.982708e-04	9.902780e-04	2.193232e-03	3.856602e-03	3.176943e-03	1.260522e-03
0.050119	7.487137e-05	2.287166e-04	8.011005e-04	1.875516e-03	3.408590e-03	2.806820e-03	1.077833e-03
0.056234	5.489060e-05	1.733245e-04	6.415086e-04	1.593310e-03	2.995150e-03	2.468426e-03	9.194999e-04
0.063096	3.979976e-05	1.298515e-04	5.092036e-04	1.345154e-03	2.616615e-03	2.161319e-03	7.827998e-04
0.070795	2.862219e-05	9.632478e-05	4.009548e-04	1.128974e-03	2.273002e-03	1.884638e-03	6.651349e-04
0.079433	2.041127e-05	7.083735e-05	3.136269e-04	9.423641e-04	1.963851e-03	1.637012e-03	5.638866e-04
0.089125	1.447775e-05	5.173792e-05	2.439291e-04	7.826368e-04	1.688120e-03	1.416781e-03	4.754350e-04
0.100000	1.022119e-05	3.759033e-05	1.889434e-04	6.469878e-04	1.444236e-03	1.222031e-03	3.961627e-04
0.112202	7.204715e-06	2.722104e-05	1.459277e-04	5.325787e-04	1.230189e-03	1.050727e-03	3.269170e-04
0.125893	5.078964e-06	1.968816e-05	1.125134e-04	4.366985e-04	1.043662e-03	9.007893e-04	2.686865e-04
0.141254	3.590490e-06	1.424966e-05	8.668423e-05	3.568396e-04	8.821617e-04	7.702002e-04	2.202215e-04
0.158489	2.551390e-06	1.034165e-05	6.678947e-05	2.906805e-04	7.431310e-04	6.569555e-04	1.799576e-04

0.177828	1.825519e-06	7.537263e-06	5.149015e-05	2.361220e-04	6.240182e-04	5.588933e-04	1.464308e-04
0.199526	1.317759e-06	5.524003e-06	3.972456e-05	1.913169e-04	5.223413e-04	4.737918e-04	1.183558e-04
0.223872	9.595812e-07	4.073018e-06	3.067122e-05	1.546602e-04	4.358016e-04	3.998649e-04	9.510783e-05
0.251189	7.059711e-07	3.022346e-06	2.369758e-05	1.247632e-04	3.623967e-04	3.359316e-04	7.605806e-05
0.281838	5.241327e-07	2.256148e-06	1.832026e-05	1.004396e-04	3.004072e-04	2.810759e-04	6.051028e-05
0.316228	3.923764e-07	1.692901e-06	1.416352e-05	8.069129e-05	2.482984e-04	2.343478e-04	4.785129e-05
0.354813	2.965505e-07	1.275504e-06	1.094538e-05	6.468956e-05	2.046623e-04	1.947224e-04	3.753107e-05
0.398107	2.258635e-07	9.638960e-07	8.451289e-06	5.175016e-05	1.682204e-04	1.612051e-04	2.918573e-05
0.446684	1.723846e-07	7.296092e-07	6.516823e-06	4.130553e-05	1.378496e-04	1.329258e-04	2.253727e-05
0.501187	1.314548e-07	5.525308e-07	5.016019e-06	3.289043e-05	1.125952e-04	1.091499e-04	1.725353e-05
0.562341	1.000977e-07	4.182251e-07	3.852328e-06	2.612478e-05	9.165347e-05	8.923830e-05	1.308296e-05
0.630957	7.609552e-08	3.162052e-07	2.951448e-06	2.069542e-05	7.433915e-05	7.261752e-05	9.833481e-06
0.707946	5.771560e-08	2.386930e-07	2.254647e-06	1.634727e-05	6.006166e-05	5.878313e-05	7.319010e-06
0.794328	4.357499e-08	1.801702e-07	1.716697e-06	1.287287e-05	4.831653e-05	4.730796e-05	5.393427e-06
0.891251	3.262386e-08	1.364339e-07	1.302780e-06	1.010282e-05	3.867996e-05	3.783186e-05	3.937954e-06
1.000000	2.414803e-08	1.034359e-07	9.858438e-07	7.898757e-06	3.079819e-05	3.004523e-05	2.849934e-06
1.122019	1.767178e-08	7.831898e-08	7.439328e-07	6.148235e-06	2.437450e-05	2.368160e-05	2.043553e-06
1.258925	1.278310e-08	5.922582e-08	5.599064e-07	4.761316e-06	1.915950e-05	1.851542e-05	1.450751e-06
1.412538	9.159853e-09	4.467484e-08	4.203209e-07	3.665761e-06	1.494460e-05	1.435624e-05	1.019721e-06
1.584893	6.500413e-09	3.360703e-08	3.151018e-07	2.803412e-06	1.155684e-05	1.103861e-05	7.105722e-07
1.778279	4.568282e-09	2.522801e-08	2.360268e-07	2.127585e-06	8.853224e-06	8.416405e-06	4.909470e-07
1.995262	3.176138e-09	1.889427e-08	1.768190e-07	1.600133e-06	6.714194e-06	6.362848e-06	3.360507e-07
2.238721	2.184489e-09	1.409820e-08	1.321437e-07	1.189906e-06	5.038492e-06	4.769620e-06	2.279466e-07
2.511886	1.484122e-09	1.047829e-08	9.802302e-08	8.725851e-07	3.739767e-06	3.544905e-06	1.531299e-07
2.818383	9.953979e-10	7.739945e-09	7.177193e-08	6.300102e-07	2.744167e-06	2.612092e-06	1.018490e-07
3.162278	6.576946e-10	5.672007e-09	5.173218e-08	4.479007e-07	1.989288e-06	1.908272e-06	6.699983e-08
3.548134	4.273910e-10	4.118865e-09	3.667990e-08	3.134976e-07	1.423533e-06	1.382215e-06	4.347785e-08
3.981072	2.719628e-10	2.959127e-09	2.562225e-08	2.153893e-07	1.004771e-06	9.925108e-07	2.773460e-08
4.466836	1.691668e-10	2.097947e-09	1.766853e-08	1.445570e-07	6.988843e-07	7.061441e-07	1.732378e-08
5.011872	1.022822e-10	1.463360e-09	1.205211e-08	9.449669e-08	4.786624e-07	4.972513e-07	1.055174e-08
5.623413	6.680332e-11	1.064878e-09	8.728175e-09	6.607183e-08	3.462608e-07	3.671000e-07	6.976305e-09
6.309573	3.132443e-11	6.663951e-10	5.404235e-09	3.764697e-08	2.138592e-07	2.369488e-07	3.400873e-09

Dresden (41.39° N, 88.27° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.044857	0.051407	0.100723
0.561009	0.048111	0.055422	0.108731
0.629463	0.051637	0.059710	0.117255
0.706269	0.055559	0.064430	0.126613
0.792447	0.059833	0.069561	0.136782
0.889140	0.064518	0.075154	0.147854
0.997631	0.069667	0.081362	0.160169
1.000000	0.069780	0.081498	0.160439
1.122019	0.077005	0.093329	0.185438
1.258925	0.085299	0.106563	0.213345
1.412538	0.094378	0.120778	0.243263
1.584893	0.103782	0.135352	0.273913

1.778279	0.112624	0.149096	0.302855
1.995262	0.120590	0.161552	0.329135
2.238721	0.127159	0.171943	0.351119
2.500000	0.132618	0.180570	0.369374
2.805046	0.140767	0.199074	0.411106
3.147313	0.150402	0.218385	0.453968
3.531344	0.164180	0.242849	0.507166
3.962233	0.185994	0.278790	0.584162
4.445698	0.224507	0.339362	0.712577
4.988156	0.282489	0.426593	0.895526
5.000000	0.283866	0.428622	0.899758
5.610092	0.343901	0.523445	1.101010
6.294627	0.401946	0.613652	1.291731
7.062688	0.450425	0.686820	1.445302
7.924466	0.483906	0.734954	1.545062
8.891397	0.506568	0.767827	1.613358
9.976312	0.534940	0.803936	1.685628
10.000000	0.535579	0.804700	1.687125
11.220185	0.529168	0.796120	1.669690
12.589254	0.529317	0.796283	1.669999
14.125375	0.536107	0.804561	1.686347
15.848932	0.540608	0.809406	1.695503
17.782794	0.548660	0.820484	1.718195
19.952623	0.546106	0.816661	1.710187
22.387211	0.526908	0.788990	1.652787
25.000000	0.497185	0.741871	1.552716
28.050461	0.468988	0.696388	1.455741
31.473135	0.448621	0.662680	1.383474
35.313439	0.434078	0.639186	1.333376
39.622330	0.416317	0.608873	1.267983
44.456985	0.398817	0.579968	1.206071
49.881558	0.376228	0.543421	1.128156
55.968028	0.352080	0.504793	1.046025
62.797161	0.326421	0.464848	0.961623
70.459573	0.301528	0.426179	0.879974
79.056942	0.276961	0.388388	0.800367
88.703347	0.254805	0.355340	0.731248
99.526793	0.236934	0.330310	0.679682
100.000000	0.218038	0.304442	0.626700