

Surry (37.17° N, 76.70° 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	3.895562e-03	6.620551e-03	9.562061e-03	1.004563e-02	1.012788e-02	1.002246e-02	9.487982e-03
0.001122	3.895562e-03	6.620541e-03	9.562061e-03	1.004335e-02	1.011968e-02	1.002242e-02	9.487982e-03
0.001259	3.895562e-03	6.620474e-03	9.562051e-03	1.003625e-02	1.010200e-02	1.002090e-02	9.487982e-03
0.001413	3.895560e-03	6.620078e-03	9.561942e-03	1.002077e-02	1.006878e-02	1.001155e-02	9.487981e-03
0.001585	3.895544e-03	6.618199e-03	9.561135e-03	9.992507e-03	1.001448e-02	9.981258e-03	9.487812e-03
0.001778	3.895412e-03	6.611189e-03	9.557019e-03	9.945480e-03	9.937228e-03	9.911188e-03	9.482805e-03
0.001995	3.894631e-03	6.590684e-03	9.542149e-03	9.874974e-03	9.841470e-03	9.811580e-03	9.455893e-03
0.002239	3.891187e-03	6.543026e-03	9.502598e-03	9.779469e-03	9.726610e-03	9.696582e-03	9.358115e-03
0.002512	3.879773e-03	6.452692e-03	9.422060e-03	9.659387e-03	9.590253e-03	9.560835e-03	9.159293e-03
0.002818	3.850617e-03	6.308312e-03	9.291630e-03	9.515271e-03	9.430277e-03	9.402465e-03	8.936767e-03
0.003162	3.790429e-03	6.107069e-03	9.115244e-03	9.346891e-03	9.245044e-03	9.220289e-03	8.687726e-03
0.003548	3.684082e-03	5.855387e-03	8.903163e-03	9.153246e-03	9.033010e-03	9.013153e-03	8.410525e-03
0.003981	3.522836e-03	5.566391e-03	8.662892e-03	8.933128e-03	8.793289e-03	8.780071e-03	8.105736e-03
0.004467	3.319357e-03	5.255257e-03	8.397529e-03	8.685608e-03	8.525551e-03	8.520869e-03	7.775173e-03
0.005012	3.098553e-03	4.934699e-03	8.108251e-03	8.410269e-03	8.230277e-03	8.236232e-03	7.419960e-03
0.005623	2.876543e-03	4.612998e-03	7.796009e-03	8.107299e-03	7.908479e-03	7.927435e-03	7.042352e-03
0.006310	2.659185e-03	4.294665e-03	7.462059e-03	7.777553e-03	7.561961e-03	7.596188e-03	6.645637e-03
0.007079	2.448153e-03	3.982051e-03	7.108126e-03	7.422573e-03	7.193166e-03	7.244921e-03	6.234030e-03
0.007943	2.243935e-03	3.676564e-03	6.736428e-03	7.044601e-03	6.805243e-03	6.876473e-03	5.811958e-03
0.008913	2.046783e-03	3.379272e-03	6.349608e-03	6.646568e-03	6.401924e-03	6.494315e-03	5.384134e-03
0.010000	1.857017e-03	3.091120e-03	5.950660e-03	6.232074e-03	5.987363e-03	6.102130e-03	4.955819e-03
0.011220	1.675091e-03	2.813005e-03	5.542887e-03	5.805308e-03	5.566068e-03	5.703895e-03	4.531805e-03
0.012589	1.501554e-03	2.545801e-03	5.129883e-03	5.370922e-03	5.142656e-03	5.303526e-03	4.117456e-03
0.014125	1.336998e-03	2.290369e-03	4.715473e-03	4.933897e-03	4.721860e-03	4.905054e-03	3.716868e-03
0.015849	1.182030e-03	2.047549e-03	4.303635e-03	4.499366e-03	4.308104e-03	4.512225e-03	3.334441e-03
0.017783	1.037228e-03	1.818146e-03	3.898396e-03	4.072421e-03	3.905564e-03	4.126583e-03	2.971502e-03
0.019953	9.030590e-04	1.602884e-03	3.503729e-03	3.657889e-03	3.515867e-03	3.733991e-03	2.619277e-03
0.022387	7.797741e-04	1.402347e-03	3.123442e-03	3.259984e-03	3.133081e-03	3.310530e-03	2.259138e-03
0.025119	6.673894e-04	1.216889e-03	2.761044e-03	2.881539e-03	2.756096e-03	2.820805e-03	1.862879e-03
0.028184	5.658700e-04	1.046591e-03	2.419603e-03	2.523642e-03	2.386044e-03	2.295865e-03	1.491302e-03
0.031623	4.752330e-04	8.913192e-04	2.101560e-03	2.187294e-03	2.027701e-03	1.830623e-03	1.180514e-03
0.035481	3.953061e-04	7.508689e-04	1.808466e-03	1.874466e-03	1.690693e-03	1.438209e-03	9.262919e-04
0.039811	3.256591e-04	6.250765e-04	1.540719e-03	1.586535e-03	1.388683e-03	1.114185e-03	7.210979e-04
0.044668	2.657049e-04	5.138064e-04	1.297811e-03	1.325177e-03	1.129163e-03	8.522071e-04	5.572298e-04
0.050119	2.146992e-04	4.168588e-04	1.079238e-03	1.093122e-03	9.107112e-04	6.445125e-04	4.276012e-04
0.056234	1.717879e-04	3.338420e-04	8.851984e-04	8.919347e-04	7.290678e-04	4.827882e-04	3.258115e-04
0.063096	1.360871e-04	2.640424e-04	7.163167e-04	7.210306e-04	5.796067e-04	3.590406e-04	2.462092e-04
0.070795	1.067240e-04	2.063760e-04	5.727156e-04	5.782169e-04	4.577524e-04	2.657213e-04	1.841905e-04
0.079433	8.285792e-05	1.594780e-04	4.532605e-04	4.604106e-04	3.591080e-04	1.959023e-04	1.359406e-04
0.089125	6.370439e-05	1.218734e-04	3.555971e-04	3.642010e-04	2.798023e-04	1.441374e-04	9.898921e-05
0.100000	4.852019e-05	9.212444e-05	2.767717e-04	2.862040e-04	2.165601e-04	1.058650e-04	7.129659e-05
0.112202	3.660824e-05	6.890681e-05	2.137951e-04	2.233451e-04	1.664217e-04	7.758648e-05	5.090678e-05
0.125893	2.737334e-05	5.102826e-05	1.639012e-04	1.730300e-04	1.267888e-04	5.659900e-05	3.600324e-05
0.141254	2.032073e-05	3.742984e-05	1.246277e-04	1.330485e-04	9.571232e-05	4.100666e-05	2.521566e-05
0.158489	1.500454e-05	2.720374e-05	9.391336e-05	1.014600e-04	7.164098e-05	2.949507e-05	1.748953e-05

0.177828	1.102430e-05	1.960628e-05	7.012714e-05	7.665676e-05	5.312390e-05	2.105642e-05	1.201582e-05
0.199526	8.054318e-06	1.403472e-05	5.191523e-05	5.736272e-05	3.895868e-05	1.491722e-05	8.169945e-06
0.223872	5.853974e-06	9.993945e-06	3.811510e-05	4.250966e-05	2.826414e-05	1.047850e-05	5.486189e-06
0.251189	4.240953e-06	7.085569e-06	2.777432e-05	3.118735e-05	2.030385e-05	7.281194e-06	3.626780e-06
0.281838	3.065355e-06	5.004132e-06	2.012141e-05	2.264923e-05	1.442195e-05	4.988038e-06	2.356758e-06
0.316228	2.208943e-06	3.522525e-06	1.452038e-05	1.628407e-05	1.010415e-05	3.359706e-06	1.506290e-06
0.354813	1.586330e-06	2.473772e-06	1.044711e-05	1.158966e-05	6.972266e-06	2.223065e-06	9.458349e-07
0.398107	1.136632e-06	1.735652e-06	7.485684e-06	8.163949e-06	4.734445e-06	1.442000e-06	5.824631e-07
0.446684	8.143164e-07	1.217800e-06	5.328652e-06	5.689603e-06	3.159192e-06	9.137731e-07	3.515276e-07
0.501187	5.847919e-07	8.538968e-07	3.763658e-06	3.918797e-06	2.067045e-06	5.643558e-07	2.077527e-07
0.562341	4.221096e-07	5.972708e-07	2.639579e-06	2.663502e-06	1.321816e-06	3.389441e-07	1.200655e-07
0.630957	3.069865e-07	4.161372e-07	1.838036e-06	1.783676e-06	8.223174e-07	1.970574e-07	6.764997e-08
0.707946	2.256092e-07	2.887265e-07	1.269292e-06	1.174898e-06	4.949812e-07	1.100165e-07	3.699861e-08
0.794328	1.679896e-07	1.997919e-07	8.684694e-07	7.596872e-07	2.862979e-07	5.837390e-08	1.954936e-08
0.891251	1.266209e-07	1.384627e-07	5.880414e-07	4.812487e-07	1.574455e-07	2.914219e-08	9.942284e-09
1.000000	9.620565e-08	9.673757e-08	3.932527e-07	2.979959e-07	8.112640e-08	1.355304e-08	4.849708e-09
1.122019	7.332591e-08	6.850802e-08	2.591778e-07	1.795810e-07	3.854352e-08	5.757794e-09	2.244260e-09
1.258925	5.580484e-08	4.919320e-08	1.680531e-07	1.045021e-07	1.663156e-08	2.139792e-09	9.569226e-10
1.412538	4.224687e-08	3.564965e-08	1.071019e-07	5.810186e-08	6.403081e-09	6.521077e-10	3.569686e-10
1.584893	3.175906e-08	2.591140e-08	6.705924e-08	3.049442e-08	2.132245e-09	1.526188e-10	1.081987e-10
1.778279	2.371421e-08	1.878176e-08	4.125104e-08	1.490556e-08	5.853165e-10	2.606624e-11	2.443897e-11
1.995262	1.760569e-08	1.351215e-08	2.494929e-08	6.675528e-09	1.257272e-10	3.139427e-12	3.802985e-12
2.238721	1.300702e-08	9.616062e-09	1.485749e-08	2.683981e-09	2.031500e-11	2.609443e-13	3.849747e-13
2.511886	9.563315e-09	6.760982e-09	8.715291e-09	9.467835e-10	2.423169e-12	1.477198e-14	2.443060e-14
2.818383	6.989175e-09	4.701495e-09	5.020448e-09	2.871464e-10	2.140022e-13	5.652010e-16	9.501664e-16
3.162278	5.068876e-09	3.240907e-09	2.820164e-09	7.399140e-11	1.430618e-14	1.456307e-17	2.234861e-17
3.548134	3.643934e-09	2.216500e-09	1.533109e-09	1.618313e-11	7.482481e-16	2.526304e-19	3.157399e-19
3.981072	2.594946e-09	1.500713e-09	8.045839e-10	3.028999e-12	3.152302e-17	2.986598e-21	2.681220e-21
4.466836	1.829647e-09	1.002240e-09	4.102492e-10	4.907202e-13	1.083129e-18	4.483304e-23	1.777352e-23
5.011872	1.276556e-09	6.579992e-10	2.056957e-10	6.933073e-14	3.025725e-20	2.988869e-23	2.791198e-24
5.623413	9.383948e-10	4.617064e-10	1.276882e-10	3.512342e-14	1.513383e-20	1.494435e-23	1.395599e-24
6.309573	6.002335e-10	2.654137e-10	4.968076e-11	9.161079e-16	1.041617e-23	0.000000e+00	0.000000e+00

Surry (37.17° N, 76.70° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.184303	0.033108	0.051872	0.091865
0.191778	0.035519	0.055028	0.096094
0.196896	0.037798	0.057811	0.099217
0.202095	0.039740	0.060196	0.102154
0.208949	0.041767	0.062729	0.105835
0.217026	0.043763	0.065478	0.109989
0.223632	0.045602	0.067770	0.113440
0.223826	0.045650	0.067833	0.113540
0.243384	0.048506	0.072522	0.122942
0.255292	0.050322	0.075308	0.128603
0.270307	0.052546	0.078813	0.135765
0.295806	0.058242	0.087047	0.148839

0.318973	0.062677	0.093459	0.160347
0.344642	0.068712	0.101915	0.173646
0.356459	0.072569	0.107116	0.180272
0.360214	0.074213	0.108907	0.182466
0.382524	0.077749	0.114806	0.193351
0.389715	0.077944	0.115852	0.196477
0.388893	0.077551	0.115398	0.195998
0.395371	0.078361	0.117396	0.199228
0.384108	0.076966	0.114882	0.193919
0.372437	0.075872	0.112722	0.188586
0.372115	0.075838	0.112658	0.188436
0.358574	0.072833	0.108291	0.181411
0.343235	0.069862	0.103912	0.173792
0.335303	0.068226	0.101568	0.169755
0.322717	0.066900	0.098997	0.163962
0.318606	0.066814	0.098428	0.162176
0.317213	0.066541	0.097786	0.161315
0.317246	0.066546	0.097793	0.161328
0.301137	0.063366	0.092919	0.153129
0.284239	0.060346	0.088122	0.144685
0.267818	0.057498	0.083435	0.136453
0.251728	0.054704	0.078707	0.128330
0.238388	0.052607	0.074954	0.121675
0.230460	0.051495	0.072855	0.117754
0.227206	0.051135	0.072031	0.116177
0.225034	0.051215	0.071773	0.115240
0.222776	0.051422	0.071658	0.114350
0.220313	0.051563	0.071436	0.113336
0.218697	0.051830	0.071444	0.112743
0.217518	0.052105	0.071529	0.112349
0.217387	0.052525	0.071916	0.112474
0.216971	0.052772	0.072132	0.112417
0.216021	0.052707	0.072047	0.112031
0.214147	0.052222	0.071519	0.111110
0.211444	0.051283	0.070532	0.109691
0.207546	0.049877	0.069001	0.107603
0.202793	0.048068	0.066993	0.104980
0.198324	0.046204	0.064960	0.102450
0.187846	0.043595	0.061440	0.097023