

# Pilgrim (41.94° N, 70.58° 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	4.072555e-03	7.297521e-03	1.076847e-02	1.136969e-02	0.011477	0.011329	1.062622e-02
0.001122	3.777750e-03	6.895323e-03	1.057175e-02	1.134396e-02	0.011475	0.011329	1.062527e-02
0.001259	3.494014e-03	6.504261e-03	1.034098e-02	1.127759e-02	0.011471	0.011328	1.061512e-02
0.001413	3.221247e-03	6.112949e-03	1.008556e-02	1.118195e-02	0.011462	0.011324	1.057045e-02
0.001585	2.959109e-03	5.722138e-03	9.801509e-03	1.105927e-02	0.011447	0.011300	1.046637e-02
0.001778	2.707870e-03	5.335354e-03	9.488193e-03	1.090905e-02	0.011424	0.011226	1.029483e-02
0.001995	2.467934e-03	4.954602e-03	9.148402e-03	1.072968e-02	0.011389	0.011118	1.005912e-02
0.002239	2.239459e-03	4.582376e-03	8.782821e-03	1.052073e-02	0.011341	0.010985	9.773367e-03
0.002512	2.022153e-03	4.219102e-03	8.392863e-03	1.028148e-02	0.011276	0.010826	9.452497e-03
0.002818	1.816554e-03	3.867029e-03	7.980595e-03	1.001132e-02	0.011190	0.010639	9.103391e-03
0.003162	1.622741e-03	3.527206e-03	7.549667e-03	9.710071e-03	0.011080	0.010425	8.728911e-03
0.003548	1.441384e-03	3.201412e-03	7.103630e-03	9.378492e-03	0.010944	0.010184	8.332126e-03
0.003981	1.272195e-03	2.890059e-03	6.645972e-03	9.017844e-03	0.010782	0.009914	7.916796e-03
0.004467	1.115959e-03	2.594848e-03	6.181502e-03	8.630268e-03	0.010593	0.009617	7.487214e-03
0.005012	9.720872e-04	2.315763e-03	5.713690e-03	8.218508e-03	0.010376	0.009293	7.048060e-03
0.005623	8.412941e-04	2.054495e-03	5.248345e-03	7.786091e-03	0.010133	0.008946	6.604189e-03
0.006310	7.227279e-04	1.810664e-03	4.788799e-03	7.337150e-03	0.009862	0.008578	6.160366e-03
0.007079	6.172461e-04	1.585758e-03	4.341106e-03	6.876289e-03	0.009564	0.008193	5.721059e-03
0.007943	5.238570e-04	1.378849e-03	3.907682e-03	6.408423e-03	0.009241	0.007793	5.290336e-03
0.008913	4.413117e-04	1.191162e-03	3.494292e-03	5.938541e-03	0.008894	0.007384	4.871745e-03
0.010000	3.688207e-04	1.021378e-03	3.102460e-03	5.471777e-03	0.008526	0.006969	4.468269e-03
0.011220	3.063430e-04	8.701449e-04	2.736697e-03	5.012911e-03	0.008138	0.006552	4.082300e-03
0.012589	2.526053e-04	7.359247e-04	2.397120e-03	4.566494e-03	0.007736	0.006137	3.715992e-03
0.014125	2.072051e-04	6.191720e-04	2.086939e-03	4.136457e-03	0.007322	0.005728	3.372774e-03
0.015849	1.689011e-04	5.169363e-04	1.804751e-03	3.726290e-03	0.006900	0.005327	3.056922e-03
0.017783	1.371191e-04	4.290701e-04	1.551869e-03	3.338536e-03	0.006474	0.004936	2.768958e-03
0.019953	1.107494e-04	3.537957e-04	1.326590e-03	2.975393e-03	0.006048	0.004558	2.506051e-03
0.022387	8.917490e-05	2.903637e-04	1.129294e-03	2.638257e-03	0.005626	0.004193	2.264097e-03
0.025119	7.152612e-05	2.369371e-04	9.580440e-04	2.328124e-03	0.005211	0.003842	2.040144e-03
0.028184	5.725337e-05	1.926092e-04	8.095694e-04	2.046329e-03	0.004806	0.003509	1.833265e-03
0.031623	4.571706e-05	1.558884e-04	6.812232e-04	1.792275e-03	0.004415	0.003194	1.643067e-03
0.035481	3.647053e-05	1.258605e-04	5.713053e-04	1.564335e-03	0.004039	0.002897	1.468934e-03
0.039811	2.906007e-05	1.012700e-04	4.774311e-04	1.360675e-03	0.003680	0.002618	1.310092e-03
0.044668	2.315084e-05	8.133758e-05	3.978331e-04	1.179554e-03	0.003341	0.002358	1.165691e-03
0.050119	1.843797e-05	6.518374e-05	3.305021e-04	1.019241e-03	0.003021	0.002115	1.034841e-03
0.056234	1.468757e-05	5.217867e-05	2.738618e-04	8.778506e-04	0.002721	0.001890	9.166557e-04
0.063096	1.170284e-05	4.169984e-05	2.263194e-04	7.536451e-04	0.002441	0.001683	8.102209e-04
0.070795	9.326900e-06	3.329829e-05	1.865125e-04	6.449342e-04	0.002181	0.001494	7.146385e-04
0.079433	7.435674e-06	2.656244e-05	1.531959e-04	5.501893e-04	0.001941	0.001320	6.290079e-04
0.089125	5.928130e-06	2.117449e-05	1.255168e-04	4.679235e-04	0.001719	0.001163	5.524557e-04
0.100000	4.726378e-06	1.686368e-05	1.025825e-04	3.967668e-04	0.001517	0.001021	4.838576e-04
0.112202	3.766936e-06	1.341884e-05	8.364065e-05	3.354021e-04	0.001334	0.000894	4.213654e-04
0.125893	3.000979e-06	1.066697e-05	6.800585e-05	2.826859e-04	0.001168	0.000779	3.630005e-04
0.141254	2.388753e-06	8.470462e-06	5.516208e-05	2.375750e-04	0.001018	0.000678	3.092286e-04
0.158489	1.899358e-06	6.717125e-06	4.462980e-05	1.991028e-04	0.000885	0.000588	2.623733e-04

0.177828	1.508053e-06	5.319083e-06	3.601642e-05	1.663725e-04	0.000766	0.000508	2.219287e-04
0.199526	1.195274e-06	4.204709e-06	2.898693e-05	1.386146e-04	0.000660	0.000438	1.870914e-04
0.223872	9.454821e-07	3.317832e-06	2.326992e-05	1.151608e-04	0.000568	0.000376	1.570824e-04
0.251189	7.459872e-07	2.611821e-06	1.863212e-05	9.541949e-05	0.000486	0.000321	1.309967e-04
0.281838	5.870602e-07	2.050913e-06	1.487467e-05	7.885488e-05	0.000414	0.000273	1.081437e-04
0.316228	4.604194e-07	1.605807e-06	1.183889e-05	6.499976e-05	0.000352	0.000232	8.893822e-05
0.354813	3.600719e-07	1.253382e-06	9.394559e-06	5.344793e-05	0.000298	0.000196	7.289359e-05
0.398107	2.806865e-07	9.745912e-07	7.429903e-06	4.384948e-05	0.000251	0.000165	5.946684e-05
0.446684	2.180629e-07	7.549347e-07	5.856027e-06	3.589177e-05	0.000211	0.000139	4.818822e-05
0.501187	1.686077e-07	5.821478e-07	4.599281e-06	2.930677e-05	0.000176	0.000116	3.861021e-05
0.562341	1.297672e-07	4.470089e-07	3.598814e-06	2.386690e-05	0.000147	0.000096	3.056414e-05
0.630957	9.924706e-08	3.415643e-07	2.803171e-06	1.938080e-05	0.000122	0.000080	2.402326e-05
0.707946	7.545363e-08	2.593473e-07	2.173828e-06	1.568946e-05	0.000101	0.000066	1.871352e-05
0.794328	5.681433e-08	1.962709e-07	1.677896e-06	1.265783e-05	0.000083	0.000054	1.440861e-05
0.891251	4.227723e-08	1.482577e-07	1.288979e-06	1.017442e-05	0.000068	0.000044	1.097298e-05
1.000000	3.115883e-08	1.111034e-07	9.848836e-07	8.145610e-06	0.000055	0.000036	8.221539e-06
1.122019	2.276105e-08	8.262301e-08	7.484559e-07	6.494316e-06	0.000044	0.000029	6.054152e-06
1.258925	1.643609e-08	6.084774e-08	5.656004e-07	5.156067e-06	0.000036	0.000023	4.366760e-06
1.412538	1.174224e-08	4.437286e-08	4.251725e-07	4.074091e-06	0.000028	0.000018	3.087473e-06
1.584893	8.268212e-09	3.197697e-08	3.177092e-07	3.200720e-06	0.000023	0.000014	2.142858e-06
1.778279	5.737859e-09	2.275314e-08	2.363887e-07	2.497206e-06	0.000018	0.000011	1.450453e-06
1.995262	3.903728e-09	1.583071e-08	1.753756e-07	1.932485e-06	0.000014	0.000008	9.517659e-07
2.238721	2.597113e-09	1.071977e-08	1.292872e-07	1.481496e-06	0.000011	0.000006	6.045974e-07
2.511886	1.669463e-09	7.025553e-09	9.423328e-08	1.123309e-06	0.000008	0.000004	3.676526e-07
2.818383	1.023045e-09	4.418187e-09	6.759063e-08	8.402627e-07	0.000006	0.000003	2.120258e-07
3.162278	6.466823e-10	2.881295e-09	4.993268e-08	6.420875e-07	0.000005	0.000002	1.332238e-07
3.548134	2.703194e-10	1.344402e-09	3.227474e-08	4.439123e-07	0.000003	0.000001	5.442171e-08

## Pilgrim (41.94° N, 70.58° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.068336	0.009471	0.015750	0.032403
0.078468	0.010778	0.017980	0.037143
0.088498	0.012152	0.020267	0.041876
0.098548	0.013591	0.022612	0.046642
0.108716	0.015090	0.025024	0.051482
0.119099	0.016652	0.027512	0.056436
0.129794	0.018279	0.030089	0.061543
0.130017	0.018313	0.030143	0.061649
0.154435	0.020900	0.034910	0.072729
0.178931	0.023680	0.039940	0.083968
0.203749	0.026655	0.045242	0.095473
0.229144	0.029850	0.050846	0.107346
0.255468	0.033299	0.056800	0.119738
0.283135	0.037037	0.063157	0.132815
0.312970	0.041122	0.070059	0.146942
0.343951	0.045444	0.077319	0.161658
0.402660	0.051328	0.088575	0.188233

0.468175	0.058219	0.101514	0.218069
0.544307	0.066497	0.116841	0.252912
0.635427	0.076577	0.135239	0.294666
0.750003	0.089400	0.158577	0.347194
0.899265	0.106133	0.188805	0.415688
0.902718	0.106524	0.189504	0.417276
1.102107	0.126471	0.227973	0.507365
1.353337	0.153426	0.278627	0.622320
1.633977	0.188841	0.343517	0.754957
1.903858	0.230575	0.415850	0.887729
2.116992	0.270016	0.480818	0.997093
2.295594	0.304217	0.535191	1.088802
2.299300	0.304931	0.536312	1.090708
2.312577	0.308876	0.542417	1.098091
2.277058	0.304861	0.535788	1.082264
2.192889	0.290860	0.513719	1.041447
2.074124	0.270577	0.482282	0.982665
1.922706	0.247929	0.443121	0.909101
1.838682	0.232612	0.418018	0.866325
1.834313	0.231657	0.418866	0.864828
1.836915	0.236824	0.427465	0.869909
1.844532	0.241750	0.433247	0.876179
1.905726	0.246980	0.442530	0.902479
1.885933	0.251236	0.448692	0.897941
1.824714	0.245869	0.435771	0.870262
1.777036	0.240479	0.425295	0.847844
1.656454	0.226502	0.399212	0.791714
1.546976	0.213061	0.375240	0.740421
1.413320	0.196190	0.344176	0.677353
1.317470	0.181090	0.318856	0.630301
1.199078	0.165922	0.292054	0.574674
1.082695	0.149300	0.262802	0.518658
1.000981	0.136354	0.241142	0.478678
0.924873	0.124575	0.221441	0.441592