

Grand Gulf (32.01° N, 91.05° 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	4.839123e-03	7.033186e-03	9.896540e-03	1.048607e-02	1.055807e-02	1.038648e-02	9.532864e-03
0.001122	4.838900e-03	7.033177e-03	9.895793e-03	1.047867e-02	1.051486e-02	1.037434e-02	9.532863e-03
0.001259	4.837893e-03	7.033058e-03	9.892706e-03	1.045718e-02	1.044618e-02	1.032610e-02	9.532774e-03
0.001413	4.834328e-03	7.032006e-03	9.882129e-03	1.041197e-02	1.034578e-02	1.022731e-02	9.528753e-03
0.001585	4.824194e-03	7.025828e-03	9.852390e-03	1.033792e-02	1.021473e-02	1.008226e-02	9.486529e-03
0.001778	4.800512e-03	7.001276e-03	9.784968e-03	1.023356e-02	1.005678e-02	9.909492e-03	9.338598e-03
0.001995	4.753984e-03	6.933603e-03	9.662808e-03	1.009815e-02	9.874556e-03	9.714980e-03	9.089557e-03
0.002239	4.675860e-03	6.799132e-03	9.482580e-03	9.932121e-03	9.668820e-03	9.498038e-03	8.802246e-03
0.002512	4.562577e-03	6.595654e-03	9.255338e-03	9.737339e-03	9.439676e-03	9.258991e-03	8.495127e-03
0.002818	4.419044e-03	6.344314e-03	8.995125e-03	9.515992e-03	9.187573e-03	8.998721e-03	8.169964e-03
0.003162	4.256736e-03	6.071536e-03	8.711132e-03	9.269828e-03	8.913542e-03	8.718448e-03	7.830084e-03
0.003548	4.087590e-03	5.795064e-03	8.408192e-03	9.000304e-03	8.619149e-03	8.419975e-03	7.479227e-03
0.003981	3.919308e-03	5.523166e-03	8.089436e-03	8.709022e-03	8.306580e-03	8.105732e-03	7.120871e-03
0.004467	3.754995e-03	5.258957e-03	7.757699e-03	8.397986e-03	7.978435e-03	7.778446e-03	6.758549e-03
0.005012	3.595108e-03	5.003566e-03	7.415972e-03	8.069682e-03	7.637678e-03	7.441033e-03	6.395910e-03
0.005623	3.439084e-03	4.757434e-03	7.067466e-03	7.727039e-03	7.287435e-03	7.096367e-03	6.036217e-03
0.006310	3.286042e-03	4.520678e-03	6.715526e-03	7.373326e-03	6.930881e-03	6.747337e-03	5.682133e-03
0.007079	3.134980e-03	4.293155e-03	6.363465e-03	7.012004e-03	6.571076e-03	6.396563e-03	5.335559e-03
0.007943	2.984838e-03	4.074461e-03	6.014420e-03	6.646551e-03	6.210818e-03	6.046427e-03	4.997743e-03
0.008913	2.834543e-03	3.863919e-03	5.671230e-03	6.280282e-03	5.852546e-03	5.698837e-03	4.669106e-03
0.010000	2.683082e-03	3.660583e-03	5.336313e-03	5.916185e-03	5.498176e-03	5.355319e-03	4.349524e-03
0.011220	2.529580e-03	3.463250e-03	5.011552e-03	5.556775e-03	5.149165e-03	5.016971e-03	4.038279e-03
0.012589	2.373375e-03	3.270495e-03	4.698185e-03	5.203977e-03	4.806448e-03	4.684534e-03	3.734440e-03
0.014125	2.214093e-03	3.080746e-03	4.396737e-03	4.859071e-03	4.470527e-03	4.358246e-03	3.436851e-03
0.015849	2.051727e-03	2.892393e-03	4.107003e-03	4.522705e-03	4.141598e-03	4.032803e-03	3.139130e-03
0.017783	1.886721e-03	2.703946e-03	3.828093e-03	4.194971e-03	3.819085e-03	3.682206e-03	2.817058e-03
0.019953	1.720017e-03	2.514221e-03	3.558559e-03	3.875561e-03	3.498422e-03	3.288954e-03	2.459523e-03
0.022387	1.553056e-03	2.322517e-03	3.296597e-03	3.563960e-03	3.174750e-03	2.870693e-03	2.096730e-03
0.025119	1.387712e-03	2.128698e-03	3.040311e-03	3.259472e-03	2.851707e-03	2.458887e-03	1.754386e-03
0.028184	1.226145e-03	1.933159e-03	2.788006e-03	2.961156e-03	2.533645e-03	2.074331e-03	1.441825e-03
0.031623	1.070621e-03	1.736907e-03	2.538458e-03	2.668390e-03	2.225073e-03	1.724031e-03	1.164098e-03
0.035481	9.233248e-04	1.541815e-03	2.291124e-03	2.382107e-03	1.931610e-03	1.411544e-03	9.238930e-04
0.039811	7.861804e-04	1.350632e-03	2.046353e-03	2.104896e-03	1.657926e-03	1.138752e-03	7.215579e-04
0.044668	6.607053e-04	1.166546e-03	1.805665e-03	1.839865e-03	1.407097e-03	9.056853e-04	5.553361e-04
0.050119	5.479145e-04	9.926499e-04	1.571833e-03	1.589987e-03	1.180872e-03	7.109768e-04	4.218084e-04
0.056234	4.483023e-04	8.316368e-04	1.348445e-03	1.357959e-03	9.800018e-04	5.526317e-04	3.165686e-04
0.063096	3.618734e-04	6.856554e-04	1.139178e-03	1.145976e-03	8.044593e-04	4.262761e-04	2.349486e-04
0.070795	2.881905e-04	5.561595e-04	9.472097e-04	9.555115e-04	6.535900e-04	3.264264e-04	1.724004e-04
0.079433	2.264453e-04	4.437784e-04	7.748903e-04	7.872237e-04	5.260173e-04	2.490530e-04	1.250593e-04
0.089125	1.755669e-04	3.483209e-04	6.235933e-04	6.409836e-04	4.195695e-04	1.893999e-04	8.994655e-05
0.100000	1.343377e-04	2.689236e-04	4.936710e-04	5.159646e-04	3.318003e-04	1.435427e-04	6.445879e-05
0.112202	1.014785e-04	2.042352e-04	3.845122e-04	4.107711e-04	2.603655e-04	1.088167e-04	4.616414e-05
0.125893	7.570736e-05	1.525863e-04	2.947119e-04	3.236026e-04	2.028946e-04	8.259595e-05	3.311896e-05
0.141254	5.579723e-05	1.121614e-04	2.223306e-04	2.524186e-04	1.570502e-04	6.264385e-05	2.384851e-05
0.158489	4.063345e-05	8.114342e-05	1.651543e-04	1.950749e-04	1.207912e-04	4.744775e-05	1.725516e-05

0.177828	2.924766e-05	5.780312e-05	1.208837e-04	1.494430e-04	9.238409e-05	3.590720e-05	1.254718e-05
0.199526	2.082000e-05	4.056349e-05	8.726995e-05	1.135323e-04	7.029150e-05	2.718263e-05	9.162802e-06
0.223872	1.466574e-05	2.805447e-05	6.222468e-05	8.558023e-05	5.320681e-05	2.060891e-05	6.707841e-06
0.251189	1.022527e-05	1.913572e-05	4.389435e-05	6.406636e-05	4.009918e-05	1.564363e-05	4.912077e-06
0.281838	7.056146e-06	1.288292e-05	3.069635e-05	4.768039e-05	3.014044e-05	1.188429e-05	3.589365e-06
0.316228	4.818424e-06	8.567233e-06	2.132846e-05	3.530855e-05	2.262722e-05	9.034296e-06	2.610598e-06
0.354813	3.255599e-06	5.634847e-06	1.475831e-05	2.603706e-05	1.697648e-05	6.861958e-06	1.884617e-06
0.398107	2.177050e-06	3.675481e-06	1.019491e-05	1.913692e-05	1.272884e-05	5.192352e-06	1.346282e-06
0.446684	1.442687e-06	2.388446e-06	7.048888e-06	1.403036e-05	9.540216e-06	3.908380e-06	9.496778e-07
0.501187	9.497796e-07	1.555304e-06	4.889904e-06	1.026482e-05	7.146966e-06	2.925888e-06	6.599584e-07
0.562341	6.233467e-07	1.020265e-06	3.409601e-06	7.494192e-06	5.343681e-06	2.173799e-06	4.506773e-07
0.630957	4.094926e-07	6.770861e-07	2.391871e-06	5.459154e-06	3.981046e-06	1.596635e-06	3.020066e-07
0.707946	2.704127e-07	4.561008e-07	1.688234e-06	3.966136e-06	2.951094e-06	1.154830e-06	1.979098e-07
0.794328	1.804815e-07	3.122620e-07	1.198042e-06	2.870131e-06	2.173907e-06	8.177355e-07	1.263951e-07
0.891251	1.223494e-07	2.170265e-07	8.535229e-07	2.064862e-06	1.588302e-06	5.653487e-07	7.835468e-08
1.000000	8.422954e-08	1.526018e-07	6.090789e-07	1.474535e-06	1.146327e-06	3.809952e-07	4.686046e-08
1.122019	5.872414e-08	1.080045e-07	4.342023e-07	1.044530e-06	8.149345e-07	2.475597e-07	2.684937e-08
1.258925	4.141868e-08	7.641870e-08	3.085083e-07	7.337802e-07	5.703270e-07	1.528776e-07	1.465259e-08
1.412538	2.954935e-08	5.353352e-08	2.179261e-07	5.106158e-07	3.923325e-07	8.850474e-08	7.527387e-09
1.584893	2.129998e-08	3.694123e-08	1.523741e-07	3.506905e-07	2.648722e-07	4.740122e-08	3.533247e-09
1.778279	1.546714e-08	2.524505e-08	1.047199e-07	2.360645e-07	1.754265e-07	2.277714e-08	1.482738e-09
1.995262	1.127357e-08	1.719771e-08	7.013766e-08	1.546288e-07	1.130848e-07	9.141587e-09	5.294976e-10
2.238721	8.225339e-09	1.172432e-08	4.545707e-08	9.837501e-08	6.924373e-08	2.742729e-09	1.378115e-10
2.511886	5.993673e-09	8.024464e-09	2.848677e-08	6.110908e-08	3.870172e-08	5.481594e-10	2.133759e-11
2.818383	4.350526e-09	5.520720e-09	1.739324e-08	3.728785e-08	1.881183e-08	6.676119e-11	1.670160e-12
3.162278	3.138182e-09	3.811274e-09	1.046280e-08	2.223277e-08	7.569424e-09	4.666039e-12	5.955080e-14
3.548134	2.245908e-09	2.630296e-09	6.254260e-09	1.270422e-08	2.436105e-09	1.798394e-13	9.095849e-16
3.981072	1.592888e-09	1.805313e-09	3.730024e-09	6.803243e-09	6.166904e-10	3.720679e-15	5.744410e-18
4.466836	1.118514e-09	1.225831e-09	2.218861e-09	3.359511e-09	1.205065e-10	4.055574e-17	1.470179e-20
5.011872	7.768808e-10	8.204146e-10	1.312212e-09	1.508943e-09	1.763500e-11	2.299263e-19	1.545955e-23
5.623413	5.689810e-10	5.841310e-10	8.740656e-10	8.577958e-10	8.887453e-12	1.149635e-19	7.729774e-24
6.309573	3.610813e-10	3.478474e-10	4.359197e-10	2.066488e-10	1.399024e-13	7.866330e-25	0.000000e+00

Grand Gulf (32.01° N, 91.05° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.112851	0.129138	0.252931
0.561009	0.118358	0.132895	0.259058
0.629463	0.120446	0.133699	0.259881
0.706269	0.126871	0.140074	0.271905
0.792447	0.134439	0.147155	0.285035
0.889140	0.139550	0.150787	0.291127
0.997631	0.146971	0.157080	0.302451
1.000000	0.147139	0.157230	0.302724
1.122019	0.155114	0.166616	0.321214
1.258925	0.160025	0.172587	0.333060
1.412538	0.165648	0.179187	0.346056
1.584893	0.172621	0.186870	0.360962

1.778279	0.177273	0.192106	0.371172
1.995262	0.180687	0.196801	0.380726
2.238721	0.186636	0.202711	0.391886
2.500000	0.190154	0.207045	0.400512
2.805046	0.190145	0.214013	0.417435
3.147313	0.194387	0.223001	0.437047
3.531344	0.197407	0.229687	0.451742
3.962233	0.200882	0.236377	0.466211
4.445698	0.207724	0.248060	0.491060
4.988156	0.210113	0.254663	0.506004
5.000000	0.210086	0.254692	0.506093
5.610092	0.202088	0.246631	0.490890
6.294627	0.192434	0.238392	0.476273
7.062688	0.191064	0.239554	0.480032
7.924466	0.184277	0.231551	0.464250
8.891397	0.176054	0.222485	0.446710
9.976312	0.171913	0.218135	0.438421
10.000000	0.171881	0.218106	0.438367
11.220185	0.161956	0.206252	0.414915
12.589254	0.150703	0.193370	0.389732
14.125375	0.144529	0.185876	0.374844
15.848932	0.137574	0.177953	0.359384
17.782794	0.130147	0.169037	0.341727
19.952623	0.122574	0.158695	0.320565
22.387211	0.116231	0.150107	0.303026
25.000000	0.113066	0.143328	0.287999
28.050461	0.110694	0.137979	0.276086
31.473135	0.108728	0.133232	0.265452
35.313439	0.107299	0.129413	0.256822
39.622330	0.106232	0.126130	0.249327
44.456985	0.105997	0.124274	0.244885
49.881558	0.105799	0.122577	0.240825
55.968028	0.105324	0.120867	0.236900
62.797161	0.104193	0.118731	0.232304
70.459573	0.102354	0.116195	0.227128
79.056942	0.099503	0.112912	0.220686
88.703347	0.095717	0.109089	0.213448
99.526793	0.091876	0.105552	0.206938
100.000000	0.085887	0.098585	0.193238