

Watts Bar (35.60° N, 84.79° 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	1.156138e-02	1.928538e-02	2.756354e-02	2.901401e-02	2.929284e-02	2.899149e-02	2.738479e-02
0.001122	1.103827e-02	1.899272e-02	2.753313e-02	2.893493e-02	2.924357e-02	2.894743e-02	2.735108e-02
0.001259	1.038605e-02	1.840494e-02	2.735845e-02	2.875602e-02	2.911404e-02	2.876108e-02	2.704718e-02
0.001413	9.758838e-03	1.764629e-02	2.694625e-02	2.849566e-02	2.891878e-02	2.849554e-02	2.650834e-02
0.001585	9.158636e-03	1.678007e-02	2.639444e-02	2.817195e-02	2.867432e-02	2.818655e-02	2.589554e-02
0.001778	8.584709e-03	1.588169e-02	2.577867e-02	2.778928e-02	2.838181e-02	2.782546e-02	2.522245e-02
0.001995	8.036483e-03	1.499024e-02	2.510134e-02	2.734624e-02	2.803546e-02	2.740686e-02	2.448622e-02
0.002239	7.512874e-03	1.411403e-02	2.436332e-02	2.684025e-02	2.763135e-02	2.692980e-02	2.369196e-02
0.002512	7.012717e-03	1.325683e-02	2.356865e-02	2.626907e-02	2.716584e-02	2.639220e-02	2.284584e-02
0.002818	6.534691e-03	1.242197e-02	2.272123e-02	2.563139e-02	2.663602e-02	2.579295e-02	2.195271e-02
0.003162	6.078115e-03	1.161214e-02	2.182526e-02	2.492748e-02	2.604030e-02	2.513257e-02	2.101905e-02
0.003548	5.641482e-03	1.082961e-02	2.088663e-02	2.415941e-02	2.537926e-02	2.441425e-02	2.005266e-02
0.003981	5.224055e-03	1.007597e-02	1.991245e-02	2.333048e-02	2.465468e-02	2.364205e-02	1.906218e-02
0.004467	4.824014e-03	9.352406e-03	1.891016e-02	2.244521e-02	2.386979e-02	2.282078e-02	1.805527e-02
0.005012	4.440722e-03	8.659551e-03	1.788725e-02	2.150917e-02	2.302896e-02	2.195671e-02	1.704004e-02
0.005623	4.072296e-03	7.997592e-03	1.685150e-02	2.052901e-02	2.213786e-02	2.105608e-02	1.602360e-02
0.006310	3.718447e-03	7.366397e-03	1.581065e-02	1.951234e-02	2.120327e-02	2.012663e-02	1.501314e-02
0.007079	3.377817e-03	6.765303e-03	1.477260e-02	1.846746e-02	2.023275e-02	1.917531e-02	1.401483e-02
0.007943	3.051023e-03	6.193460e-03	1.374484e-02	1.740308e-02	1.923433e-02	1.820979e-02	1.303422e-02
0.008913	2.738585e-03	5.649534e-03	1.273452e-02	1.632801e-02	1.821606e-02	1.723636e-02	1.207570e-02
0.010000	2.439567e-03	5.132323e-03	1.174797e-02	1.525119e-02	1.718621e-02	1.626185e-02	1.114304e-02
0.011220	2.155009e-03	4.640361e-03	1.079103e-02	1.418106e-02	1.615250e-02	1.529170e-02	1.023936e-02
0.012589	1.885701e-03	4.172560e-03	9.868372e-03	1.312550e-02	1.512218e-02	1.433108e-02	9.360831e-03
0.014125	1.634045e-03	3.728550e-03	8.983672e-03	1.209150e-02	1.410170e-02	1.338407e-02	8.487463e-03
0.015849	1.400317e-03	3.308284e-03	8.139428e-03	1.108502e-02	1.309675e-02	1.245293e-02	7.637913e-03
0.017783	1.186462e-03	2.911672e-03	7.337092e-03	1.011084e-02	1.211189e-02	1.152929e-02	6.832184e-03
0.019953	9.928780e-04	2.539240e-03	6.577058e-03	9.173268e-03	1.115144e-02	1.061906e-02	6.074169e-03
0.022387	8.214303e-04	2.192440e-03	5.859725e-03	8.275949e-03	1.021849e-02	9.736248e-03	5.366564e-03
0.025119	6.709525e-04	1.872471e-03	5.185619e-03	7.421177e-03	9.314820e-03	8.885284e-03	4.712675e-03
0.028184	5.414401e-04	1.580891e-03	4.554654e-03	6.611085e-03	8.444814e-03	8.068283e-03	4.113022e-03
0.031623	4.313135e-04	1.318610e-03	3.966958e-03	5.848851e-03	7.613193e-03	7.288364e-03	3.569478e-03
0.035481	3.396876e-04	1.086276e-03	3.423621e-03	5.137455e-03	6.823699e-03	6.548612e-03	3.081375e-03
0.039811	2.642732e-04	8.834966e-04	2.926011e-03	4.479328e-03	6.079445e-03	5.852113e-03	2.648065e-03
0.044668	2.034300e-04	7.095677e-04	2.475413e-03	3.876227e-03	5.383154e-03	5.201033e-03	2.266261e-03
0.050119	1.548360e-04	5.629104e-04	2.072388e-03	3.329270e-03	4.737212e-03	4.597433e-03	1.932810e-03
0.056234	1.167629e-04	4.413750e-04	1.716981e-03	2.838577e-03	4.143217e-03	4.042255e-03	1.643112e-03
0.063096	8.722220e-05	3.422814e-04	1.408016e-03	2.403326e-03	3.602079e-03	3.536033e-03	1.392110e-03
0.070795	6.467783e-05	2.627715e-04	1.143552e-03	2.021496e-03	3.113639e-03	3.078121e-03	1.171571e-03
0.079433	4.762472e-05	1.999401e-04	9.204501e-04	1.690151e-03	2.676850e-03	2.667263e-03	9.814569e-04
0.089125	3.490118e-05	1.509799e-04	7.349675e-04	1.405515e-03	2.289660e-03	2.301325e-03	8.197791e-04
0.100000	2.547870e-05	1.133140e-04	5.827545e-04	1.163338e-03	1.949371e-03	1.977956e-03	6.826890e-04
0.112202	1.857094e-05	8.465463e-05	4.594200e-04	9.589250e-04	1.652766e-03	1.694874e-03	5.667685e-04
0.125893	1.353463e-05	6.306471e-05	3.605497e-04	7.875196e-04	1.396286e-03	1.449391e-03	4.690981e-04
0.141254	9.880575e-06	4.692264e-05	2.820305e-04	6.446214e-04	1.175767e-03	1.236777e-03	3.872997e-04
0.158489	7.237833e-06	3.492734e-05	2.201274e-04	5.261098e-04	9.868975e-04	1.052066e-03	3.187010e-04

0.177828	5.325411e-06	2.604379e-05	1.715964e-04	4.282513e-04	8.257946e-04	8.920954e-04	2.612149e-04
0.199526	3.940435e-06	1.947573e-05	1.336927e-04	3.477381e-04	6.890029e-04	7.542785e-04	2.131910e-04
0.223872	2.931213e-06	1.461525e-05	1.041539e-04	2.816869e-04	5.733371e-04	6.360431e-04	1.731911e-04
0.251189	2.193557e-06	1.100980e-05	8.115605e-05	2.276293e-04	4.758636e-04	5.349967e-04	1.400144e-04
0.281838	1.649376e-06	8.324515e-06	6.324583e-05	1.834765e-04	3.939176e-04	4.488519e-04	1.126832e-04
0.316228	1.245589e-06	6.314215e-06	4.928392e-05	1.474828e-04	3.251741e-04	3.754940e-04	9.023124e-05
0.354813	9.430975e-07	4.800927e-06	3.838426e-05	1.181980e-04	2.676328e-04	3.131549e-04	7.179492e-05
0.398107	7.152193e-07	3.655284e-06	2.986430e-05	9.442052e-05	2.195796e-04	2.603225e-04	5.675902e-05
0.446684	5.423176e-07	2.783835e-06	2.319655e-05	7.515624e-05	1.795455e-04	2.156660e-04	4.457919e-05
0.501187	4.106167e-07	2.118186e-06	1.797543e-05	5.958626e-05	1.462755e-04	1.780245e-04	3.475799e-05
0.562341	3.100521e-07	1.608483e-06	1.388768e-05	4.703655e-05	1.186974e-04	1.463739e-04	2.689309e-05
0.630957	2.331706e-07	1.217645e-06	1.068986e-05	3.695353e-05	9.590106e-05	1.198240e-04	2.064057e-05
0.707946	1.745075e-07	9.180640e-07	8.192510e-06	2.888168e-05	7.711865e-05	9.762550e-05	1.570749e-05
0.794328	1.297881e-07	6.887765e-07	6.247207e-06	2.244669e-05	6.170021e-05	7.913654e-05	1.184418e-05
0.891251	9.587192e-08	5.138267e-07	4.737312e-06	1.734004e-05	4.909306e-05	6.379820e-05	8.842324e-06
1.000000	7.026695e-08	3.808778e-07	3.569956e-06	1.330822e-05	3.883084e-05	5.112913e-05	6.532185e-06
1.122019	5.109784e-08	2.803585e-07	2.671999e-06	1.014281e-05	3.051899e-05	4.071593e-05	4.774849e-06
1.258925	3.682027e-08	2.047843e-07	1.985073e-06	7.673181e-06	2.382274e-05	3.220166e-05	3.449343e-06
1.412538	2.629654e-08	1.483391e-07	1.462994e-06	5.759251e-06	1.845876e-05	2.527766e-05	2.460916e-06
1.584893	1.858732e-08	1.064971e-07	1.068911e-06	4.286652e-06	1.418957e-05	1.967984e-05	1.732264e-06
1.778279	1.300414e-08	7.572777e-08	7.737855e-07	3.162060e-06	1.081568e-05	1.518499e-05	1.201645e-06
1.995262	8.994016e-09	5.329894e-08	5.545859e-07	2.310287e-06	8.169555e-06	1.160239e-05	8.202148e-07
2.238721	6.150985e-09	3.710345e-08	3.933859e-07	1.670818e-06	6.110829e-06	8.768979e-06	5.499766e-07
2.511886	4.150974e-09	2.552657e-08	2.759515e-07	1.195189e-06	4.522620e-06	6.546497e-06	3.612742e-07
2.818383	2.762773e-09	1.734024e-08	1.912070e-07	8.447987e-07	3.307723e-06	4.818365e-06	2.313099e-07
3.162278	1.808369e-09	1.161934e-08	1.306526e-07	5.894166e-07	2.386811e-06	3.487299e-06	1.439217e-07
3.548134	1.161831e-09	7.666538e-09	8.789043e-08	4.053472e-07	1.695347e-06	2.472478e-06	8.652374e-08
3.981072	7.281253e-10	4.968107e-09	5.806406e-08	2.741597e-07	1.181641e-06	1.708933e-06	4.961938e-08
4.466836	4.446201e-10	3.152776e-09	3.754050e-08	1.817857e-07	8.053615e-07	1.144657e-06	2.597372e-08
5.011872	2.624525e-10	1.952411e-09	2.364190e-08	1.176532e-07	5.343699e-07	7.340702e-07	1.184075e-08
5.623413	1.663876e-10	1.307727e-09	1.605227e-08	8.066670e-08	3.698738e-07	4.812982e-07	6.438883e-09
6.309573	7.032278e-11	6.630431e-10	8.462652e-09	4.368023e-08	2.053776e-07	2.285261e-07	1.037020e-09

Watts Bar (35.60° N, 84.79° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.140634	0.028764	0.042049	0.071111
0.156411	0.031608	0.046249	0.078876
0.173557	0.034775	0.050867	0.087336
0.192121	0.038254	0.055897	0.096502
0.212211	0.042042	0.061351	0.106418
0.234945	0.046344	0.067544	0.117641
0.260777	0.051248	0.074603	0.130400
0.261339	0.051354	0.074757	0.130678
0.318411	0.059134	0.087415	0.157552
0.377646	0.067605	0.101067	0.185601
0.436028	0.076242	0.114885	0.213364
0.491457	0.084671	0.128305	0.239825

0.539872	0.092200	0.140275	0.263018
0.581997	0.098899	0.150938	0.283299
0.617596	0.104744	0.160209	0.300543
0.649436	0.110153	0.168759	0.316090
0.735203	0.119646	0.186907	0.355722
0.820463	0.130405	0.206546	0.395960
0.908301	0.142720	0.228083	0.438120
0.995333	0.155866	0.250379	0.480405
1.067132	0.167590	0.269846	0.515821
1.128602	0.178408	0.287273	0.546547
1.129817	0.178634	0.287632	0.547161
1.243728	0.192044	0.312226	0.600232
1.397311	0.212200	0.347674	0.672889
1.536119	0.231542	0.381327	0.739341
1.638395	0.246338	0.407018	0.788759
1.735204	0.260887	0.431914	0.835886
1.834501	0.277119	0.458946	0.884903
1.836424	0.277453	0.459495	0.885864
1.880368	0.281709	0.468184	0.905975
1.941139	0.288634	0.481271	0.934314
1.970420	0.290934	0.486694	0.947546
2.007781	0.294245	0.494008	0.964598
2.051108	0.299506	0.504368	0.985256
2.072820	0.301936	0.509807	0.995745
2.121003	0.308344	0.521955	1.019087
2.109419	0.307840	0.520644	1.014246
2.082267	0.305094	0.515425	1.001878
2.043469	0.300472	0.507009	0.983787
1.978394	0.292037	0.491953	0.952997
1.897295	0.281067	0.472753	0.914350
1.807376	0.268869	0.451320	0.871420
1.701027	0.254504	0.426105	0.820755
1.563923	0.235643	0.393043	0.755206
1.413619	0.215093	0.356997	0.683448
1.274757	0.196168	0.323941	0.617314
1.142786	0.178204	0.292801	0.554620
1.023199	0.161564	0.264288	0.497654
0.929885	0.148034	0.241451	0.452910
0.849089	0.135460	0.220744	0.413702