

Point Beach (44.28° N, 87.54° 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 | 3.138537e-03 | 4.371977e-03 | 5.977988e-03 | 6.291965e-03 | 6.344719e-03 | 6.246274e-03 | 5.804481e-03 |
| 0.001122 | 3.094400e-03 | 4.358599e-03 | 5.976868e-03 | 6.290202e-03 | 6.344719e-03 | 6.246274e-03 | 5.804481e-03 |
| 0.001259 | 3.012095e-03 | 4.303022e-03 | 5.966516e-03 | 6.286634e-03 | 6.344719e-03 | 6.246273e-03 | 5.804480e-03 |
| 0.001413 | 2.909919e-03 | 4.219048e-03 | 5.922693e-03 | 6.280136e-03 | 6.344712e-03 | 6.246255e-03 | 5.804445e-03 |
| 0.001585 | 2.805808e-03 | 4.110552e-03 | 5.842311e-03 | 6.269376e-03 | 6.344615e-03 | 6.245965e-03 | 5.803915e-03 |
| 0.001778 | 2.702665e-03 | 3.986526e-03 | 5.736425e-03 | 6.252984e-03 | 6.343803e-03 | 6.243511e-03 | 5.799851e-03 |
| 0.001995 | 2.599812e-03 | 3.846717e-03 | 5.610985e-03 | 6.229683e-03 | 6.339725e-03 | 6.231967e-03 | 5.782488e-03 |
| 0.002239 | 2.495791e-03 | 3.694273e-03 | 5.468368e-03 | 6.198311e-03 | 6.326553e-03 | 6.198561e-03 | 5.733962e-03 |
| 0.002512 | 2.389682e-03 | 3.537753e-03 | 5.310384e-03 | 6.157662e-03 | 6.296723e-03 | 6.134341e-03 | 5.635791e-03 |
| 0.002818 | 2.279927e-03 | 3.381876e-03 | 5.138652e-03 | 6.106142e-03 | 6.246095e-03 | 6.045532e-03 | 5.487138e-03 |
| 0.003162 | 2.165863e-03 | 3.227172e-03 | 4.954156e-03 | 6.041419e-03 | 6.176639e-03 | 5.938933e-03 | 5.303597e-03 |
| 0.003548 | 2.046439e-03 | 3.073233e-03 | 4.757378e-03 | 5.960614e-03 | 6.090780e-03 | 5.813768e-03 | 5.096426e-03 |
| 0.003981 | 1.921497e-03 | 2.919062e-03 | 4.548773e-03 | 5.861316e-03 | 5.987825e-03 | 5.668322e-03 | 4.868623e-03 |
| 0.004467 | 1.790835e-03 | 2.763902e-03 | 4.328649e-03 | 5.742529e-03 | 5.865995e-03 | 5.501668e-03 | 4.621517e-03 |
| 0.005012 | 1.655034e-03 | 2.606585e-03 | 4.097402e-03 | 5.604462e-03 | 5.723730e-03 | 5.313269e-03 | 4.357117e-03 |
| 0.005623 | 1.515073e-03 | 2.446490e-03 | 3.855422e-03 | 5.447610e-03 | 5.559775e-03 | 5.103213e-03 | 4.078053e-03 |
| 0.006310 | 1.372431e-03 | 2.282892e-03 | 3.603430e-03 | 5.272305e-03 | 5.373375e-03 | 4.872576e-03 | 3.787658e-03 |
| 0.007079 | 1.229199e-03 | 2.115804e-03 | 3.342530e-03 | 5.078880e-03 | 5.164536e-03 | 4.623456e-03 | 3.489981e-03 |
| 0.007943 | 1.088027e-03 | 1.945480e-03 | 3.074439e-03 | 4.867927e-03 | 4.934137e-03 | 4.358755e-03 | 3.189530e-03 |
| 0.008913 | 9.533151e-04 | 1.772871e-03 | 2.801575e-03 | 4.640435e-03 | 4.683883e-03 | 4.081979e-03 | 2.890920e-03 |
| 0.010000 | 8.255689e-04 | 1.599484e-03 | 2.526937e-03 | 4.397856e-03 | 4.416272e-03 | 3.797163e-03 | 2.598638e-03 |
| 0.011220 | 7.062716e-04 | 1.427220e-03 | 2.254286e-03 | 4.142128e-03 | 4.134558e-03 | 3.508565e-03 | 2.316836e-03 |
| 0.012589 | 5.962809e-04 | 1.258516e-03 | 1.987642e-03 | 3.875660e-03 | 3.842623e-03 | 3.220521e-03 | 2.049139e-03 |
| 0.014125 | 4.968110e-04 | 1.095872e-03 | 1.731292e-03 | 3.601266e-03 | 3.544805e-03 | 2.937090e-03 | 1.798491e-03 |
| 0.015849 | 4.084180e-04 | 9.425193e-04 | 1.489105e-03 | 3.322102e-03 | 3.245631e-03 | 2.661931e-03 | 1.567057e-03 |
| 0.017783 | 3.308219e-04 | 8.001721e-04 | 1.264610e-03 | 3.041557e-03 | 2.949582e-03 | 2.398104e-03 | 1.356244e-03 |
| 0.019953 | 2.637131e-04 | 6.704732e-04 | 1.060321e-03 | 2.763144e-03 | 2.660851e-03 | 2.148081e-03 | 1.166786e-03 |
| 0.022387 | 2.069182e-04 | 5.541222e-04 | 8.779428e-04 | 2.490356e-03 | 2.383176e-03 | 1.913650e-03 | 9.985218e-04 |
| 0.025119 | 1.599527e-04 | 4.518091e-04 | 7.182417e-04 | 2.226519e-03 | 2.119665e-03 | 1.695903e-03 | 8.496296e-04 |
| 0.028184 | 1.217317e-04 | 3.633643e-04 | 5.813573e-04 | 1.974652e-03 | 1.872711e-03 | 1.494955e-03 | 7.168426e-04 |
| 0.031623 | 9.124870e-05 | 2.882818e-04 | 4.664032e-04 | 1.737340e-03 | 1.643967e-03 | 1.309506e-03 | 5.987592e-04 |
| 0.035481 | 6.735312e-05 | 2.255027e-04 | 3.712877e-04 | 1.516631e-03 | 1.434360e-03 | 1.137086e-03 | 4.965736e-04 |
| 0.039811 | 4.903113e-05 | 1.739536e-04 | 2.935491e-04 | 1.313964e-03 | 1.244110e-03 | 9.779615e-04 | 4.105649e-04 |
| 0.044668 | 3.518388e-05 | 1.322860e-04 | 2.307434e-04 | 1.130134e-03 | 1.072771e-03 | 8.355120e-04 | 3.391524e-04 |
| 0.050119 | 2.491177e-05 | 9.923609e-05 | 1.805367e-04 | 9.653125e-04 | 9.193863e-04 | 7.104547e-04 | 2.801889e-04 |
| 0.056234 | 1.739776e-05 | 7.345591e-05 | 1.407387e-04 | 8.191030e-04 | 7.828915e-04 | 6.015805e-04 | 2.316276e-04 |
| 0.063096 | 1.201140e-05 | 5.369999e-05 | 1.094143e-04 | 6.906228e-04 | 6.625964e-04 | 5.074075e-04 | 1.916654e-04 |
| 0.070795 | 8.195975e-06 | 3.878495e-05 | 8.490752e-05 | 5.786004e-04 | 5.579095e-04 | 4.264495e-04 | 1.587597e-04 |
| 0.079433 | 5.544868e-06 | 2.771404e-05 | 6.583692e-05 | 4.815459e-04 | 4.677448e-04 | 3.572506e-04 | 1.316211e-04 |
| 0.089125 | 3.722086e-06 | 1.962607e-05 | 5.105434e-05 | 3.980057e-04 | 3.906562e-04 | 2.984180e-04 | 1.091907e-04 |
| 0.100000 | 2.488654e-06 | 1.380285e-05 | 3.963268e-05 | 3.267302e-04 | 3.251528e-04 | 2.486450e-04 | 9.060767e-05 |
| 0.112202 | 1.662210e-06 | 9.661991e-06 | 3.083110e-05 | 2.665966e-04 | 2.698131e-04 | 2.067250e-04 | 7.512982e-05 |
| 0.125893 | 1.115629e-06 | 6.748211e-06 | 2.405395e-05 | 2.164338e-04 | 2.233084e-04 | 1.715587e-04 | 6.150380e-05 |
| 0.141254 | 7.532625e-07 | 4.715069e-06 | 1.882938e-05 | 1.749846e-04 | 1.844159e-04 | 1.421574e-04 | 4.923966e-05 |
| 0.158489 | 5.143483e-07 | 3.304089e-06 | 1.479308e-05 | 1.409943e-04 | 1.520260e-04 | 1.176392e-04 | 3.920037e-05 |

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| 0.177828 | 3.564407e-07 | 2.329082e-06 | 1.166736e-05 | 1.132953e-04 | 1.251467e-04 | 9.720942e-05 | 3.113048e-05 |
| 0.199526 | 2.511356e-07 | 1.655790e-06 | 9.236582e-06 | 9.083937e-05 | 1.029003e-04 | 8.015091e-05 | 2.463066e-05 |
| 0.223872 | 1.801290e-07 | 1.189396e-06 | 7.335094e-06 | 7.270313e-05 | 8.451350e-05 | 6.588668e-05 | 1.932988e-05 |
| 0.251189 | 1.314071e-07 | 8.640819e-07 | 5.838286e-06 | 5.808895e-05 | 6.930593e-05 | 5.399437e-05 | 1.501812e-05 |
| 0.281838 | 9.742570e-08 | 6.353169e-07 | 4.655023e-06 | 4.632584e-05 | 5.670059e-05 | 4.412298e-05 | 1.157715e-05 |
| 0.316228 | 7.309548e-08 | 4.727067e-07 | 3.717178e-06 | 3.686539e-05 | 4.625063e-05 | 3.594370e-05 | 8.871452e-06 |
| 0.354813 | 5.541119e-08 | 3.556638e-07 | 2.971680e-06 | 2.926710e-05 | 3.762292e-05 | 2.915222e-05 | 6.751877e-06 |
| 0.398107 | 4.230310e-08 | 2.705463e-07 | 2.377311e-06 | 2.317604e-05 | 3.053374e-05 | 2.351604e-05 | 5.073186e-06 |
| 0.446684 | 3.239789e-08 | 2.082307e-07 | 1.901975e-06 | 1.830249e-05 | 2.471224e-05 | 1.887344e-05 | 3.754268e-06 |
| 0.501187 | 2.483493e-08 | 1.618968e-07 | 1.520643e-06 | 1.440934e-05 | 1.991857e-05 | 1.507344e-05 | 2.750464e-06 |
| 0.562341 | 1.903997e-08 | 1.268977e-07 | 1.213918e-06 | 1.130426e-05 | 1.597257e-05 | 1.196883e-05 | 1.982331e-06 |
| 0.630957 | 1.458944e-08 | 1.002480e-07 | 9.664418e-07 | 8.832401e-06 | 1.274284e-05 | 9.436829e-06 | 1.404819e-06 |
| 0.707946 | 1.116217e-08 | 7.981799e-08 | 7.662482e-07 | 6.868878e-06 | 1.011190e-05 | 7.380407e-06 | 9.818469e-07 |
| 0.794328 | 8.515845e-09 | 6.393244e-08 | 6.039966e-07 | 5.312555e-06 | 7.967362e-06 | 5.720732e-06 | 6.731023e-07 |
| 0.891251 | 6.460342e-09 | 5.140557e-08 | 4.727213e-07 | 4.081829e-06 | 6.217647e-06 | 4.390808e-06 | 4.510303e-07 |
| 1.000000 | 4.854198e-09 | 4.140182e-08 | 3.671732e-07 | 3.111515e-06 | 4.797631e-06 | 3.334021e-06 | 2.956251e-07 |
| 1.122019 | 3.610376e-09 | 3.332739e-08 | 2.830020e-07 | 2.349984e-06 | 3.656989e-06 | 2.501198e-06 | 1.891733e-07 |
| 1.258925 | 2.657993e-09 | 2.675833e-08 | 2.164802e-07 | 1.756355e-06 | 2.750711e-06 | 1.849068e-06 | 1.179944e-07 |
| 1.412538 | 1.935821e-09 | 2.138564e-08 | 1.644116e-07 | 1.297897e-06 | 2.038617e-06 | 1.342589e-06 | 7.126396e-08 |
| 1.584893 | 1.395385e-09 | 1.698288e-08 | 1.240278e-07 | 9.478614e-07 | 1.486318e-06 | 9.542652e-07 | 4.116235e-08 |
| 1.778279 | 9.952646e-10 | 1.338316e-08 | 9.295954e-08 | 6.839558e-07 | 1.064685e-06 | 6.614087e-07 | 2.239401e-08 |
| 1.995262 | 7.017061e-10 | 1.045505e-08 | 6.922579e-08 | 4.874836e-07 | 7.485408e-07 | 4.452795e-07 | 1.135408e-08 |
| 2.238721 | 4.881570e-10 | 8.088420e-09 | 5.121050e-08 | 3.429711e-07 | 5.156997e-07 | 2.901743e-07 | 5.297870e-09 |
| 2.511886 | 3.342954e-10 | 6.190217e-09 | 3.761692e-08 | 2.379291e-07 | 3.475174e-07 | 1.822590e-07 | 2.222601e-09 |
| 2.818383 | 2.244690e-10 | 4.684100e-09 | 2.741906e-08 | 1.625222e-07 | 2.281104e-07 | 1.096182e-07 | 8.052952e-10 |
| 3.162278 | 1.585571e-10 | 3.637085e-09 | 2.080619e-08 | 1.171991e-07 | 1.578637e-07 | 7.162819e-08 | 4.299880e-10 |
| 3.548134 | 9.264529e-11 | 2.590071e-09 | 1.419332e-08 | 7.187597e-08 | 8.761689e-08 | 3.363821e-08 | 5.468083e-11 |

Point Beach (44.28° N, 87.54° E), Response Spectra

| Frequency (Hz) | UHRS 1E-4 (g) | GMRS (g) | UHRS 1E-5 (g) |
|----------------|---------------|----------|---------------|
| 0.500000 | 0.030487 | 0.034210 | 0.066677 |
| 0.561009 | 0.032489 | 0.036506 | 0.071175 |
| 0.629463 | 0.034873 | 0.039215 | 0.076472 |
| 0.706269 | 0.037760 | 0.042559 | 0.083041 |
| 0.792447 | 0.041256 | 0.046656 | 0.091112 |
| 0.889140 | 0.045399 | 0.051509 | 0.100670 |
| 0.997631 | 0.049868 | 0.056649 | 0.110750 |
| 1.000000 | 0.049965 | 0.056758 | 0.110963 |
| 1.122019 | 0.052915 | 0.061329 | 0.120502 |
| 1.258925 | 0.055112 | 0.065196 | 0.128758 |
| 1.412538 | 0.056289 | 0.068150 | 0.135376 |
| 1.584893 | 0.056976 | 0.070808 | 0.141577 |
| 1.778279 | 0.057489 | 0.073565 | 0.148167 |
| 1.995262 | 0.058463 | 0.077163 | 0.156622 |
| 2.238721 | 0.061007 | 0.083317 | 0.170561 |
| 2.500000 | 0.065726 | 0.092919 | 0.191869 |
| 2.805046 | 0.075340 | 0.112529 | 0.235579 |

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| 3.147313 | 0.091507 | 0.141049 | 0.297618 |
| 3.531344 | 0.115601 | 0.176539 | 0.371640 |
| 3.962233 | 0.141864 | 0.211744 | 0.443207 |
| 4.445698 | 0.165513 | 0.248030 | 0.519676 |
| 4.988156 | 0.189781 | 0.284233 | 0.595445 |
| 5.000000 | 0.190281 | 0.284999 | 0.597059 |
| 5.610092 | 0.201785 | 0.305699 | 0.642254 |
| 6.294627 | 0.208622 | 0.321678 | 0.678809 |
| 7.062688 | 0.208843 | 0.327926 | 0.695147 |
| 7.924466 | 0.205458 | 0.326186 | 0.693364 |
| 8.891397 | 0.201527 | 0.326447 | 0.697418 |
| 9.976312 | 0.202806 | 0.332075 | 0.711355 |
| 10.000000 | 0.202891 | 0.332255 | 0.711761 |
| 11.220185 | 0.197142 | 0.323655 | 0.693775 |
| 12.589254 | 0.197354 | 0.326294 | 0.700664 |
| 14.125375 | 0.194070 | 0.319617 | 0.685659 |
| 15.848932 | 0.188651 | 0.312078 | 0.670231 |
| 17.782794 | 0.183321 | 0.305648 | 0.657711 |
| 19.952623 | 0.181190 | 0.298359 | 0.640031 |
| 22.387211 | 0.174816 | 0.286360 | 0.613488 |
| 25.000000 | 0.173711 | 0.279549 | 0.596247 |
| 28.050461 | 0.170106 | 0.268634 | 0.570272 |
| 31.473135 | 0.167534 | 0.262862 | 0.557116 |
| 35.313439 | 0.163492 | 0.255260 | 0.540337 |
| 39.622330 | 0.156566 | 0.239527 | 0.504462 |
| 44.456985 | 0.151064 | 0.225851 | 0.472931 |
| 49.881558 | 0.146031 | 0.215026 | 0.448552 |
| 55.968028 | 0.140508 | 0.203902 | 0.423800 |
| 62.797161 | 0.134110 | 0.192375 | 0.398687 |
| 70.459573 | 0.127289 | 0.182101 | 0.377141 |
| 79.056942 | 0.119505 | 0.171990 | 0.356734 |
| 88.703347 | 0.111085 | 0.162429 | 0.338240 |
| 99.526793 | 0.102770 | 0.153754 | 0.322016 |
| 100.000000 | 0.094095 | 0.142847 | 0.300267 |