Figure 2.5-14— {Ten-Foot Solid Core of Mahantango Shale with No Open Fractures}

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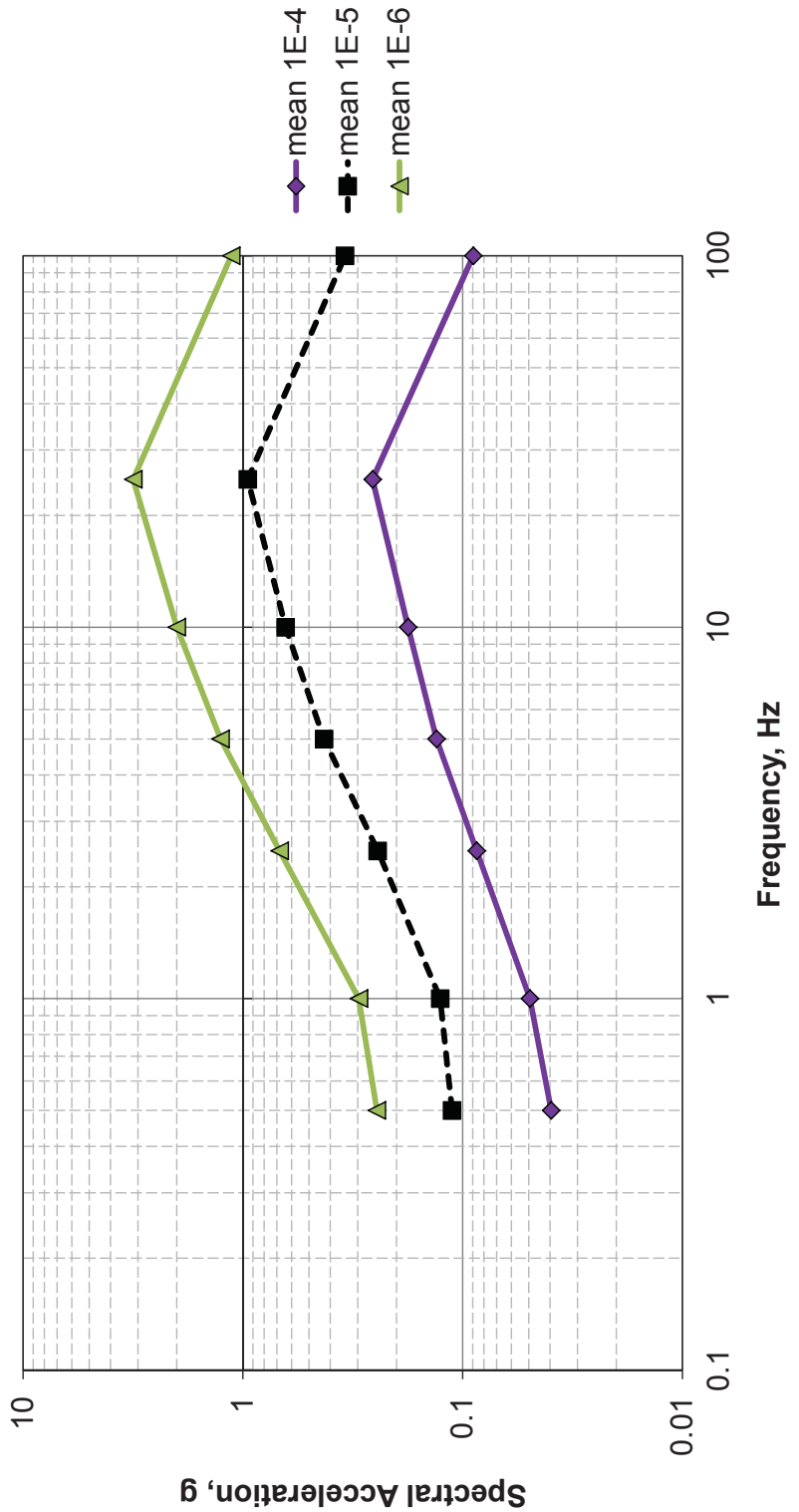

Figure 2.5-15— {Uniform Hazard Spectra for Hard Rock at 7 Structural Frequencies}

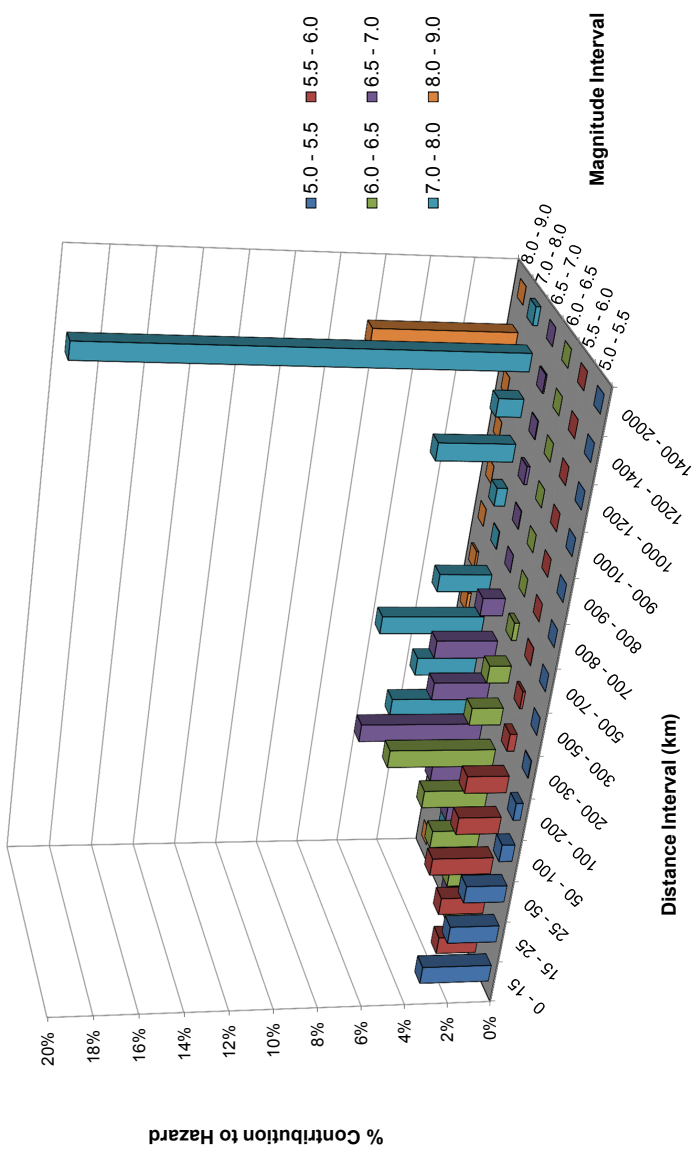

Figure 2.5-16— {Mean 1E-4 Rock Deaggregation for 1 and 2.5 Hz}

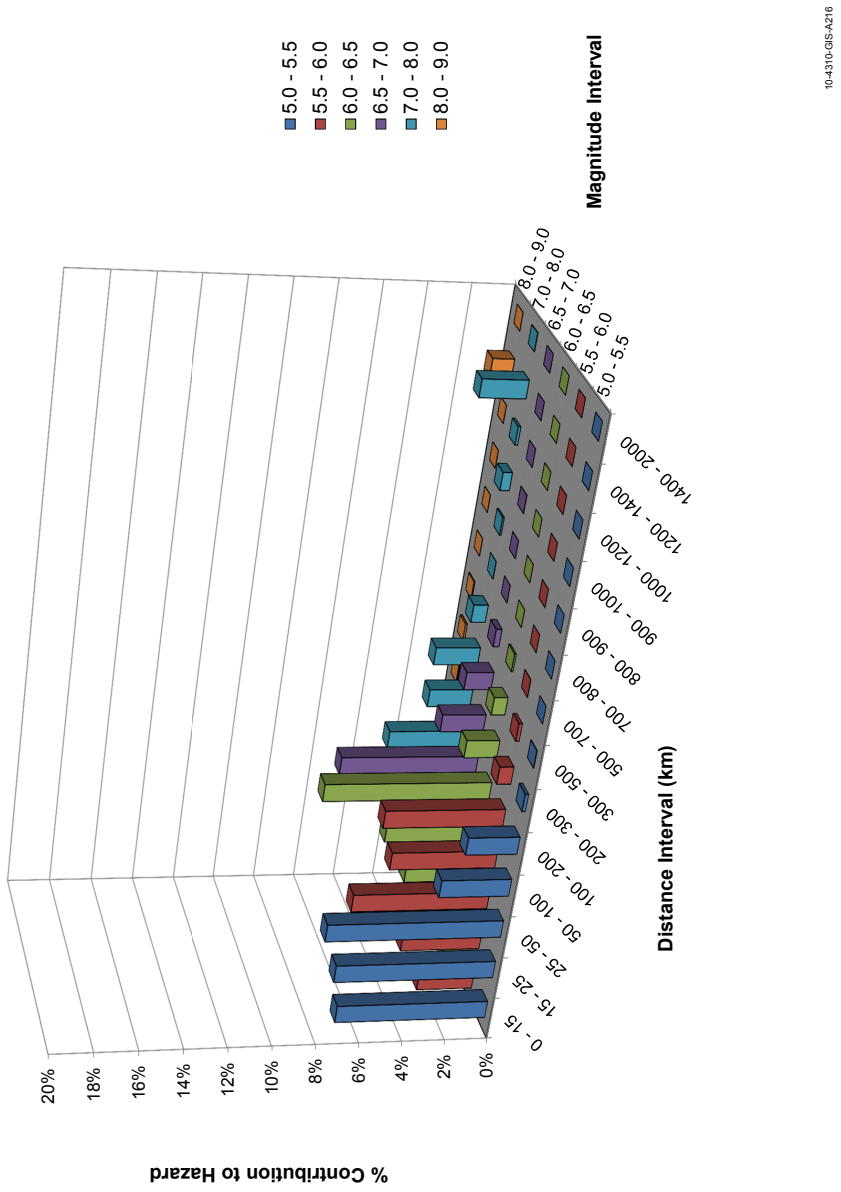

Figure 2.5-17— {Mean 1E-4 Rock Deaggregation for 5 and 10 Hz}

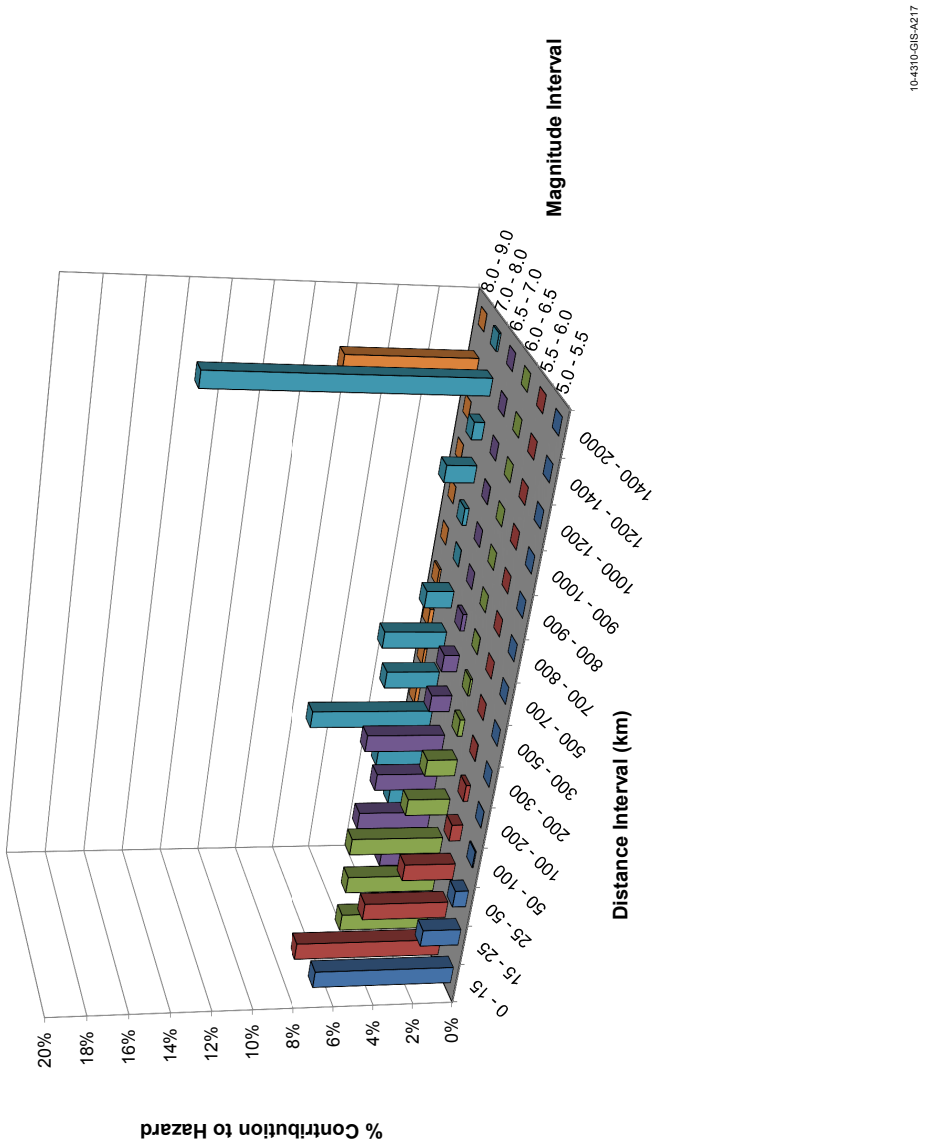

Figure 2.5-18— {Mean 1E-5 Rock Deaggregation for 1 and 2.5 Hz}

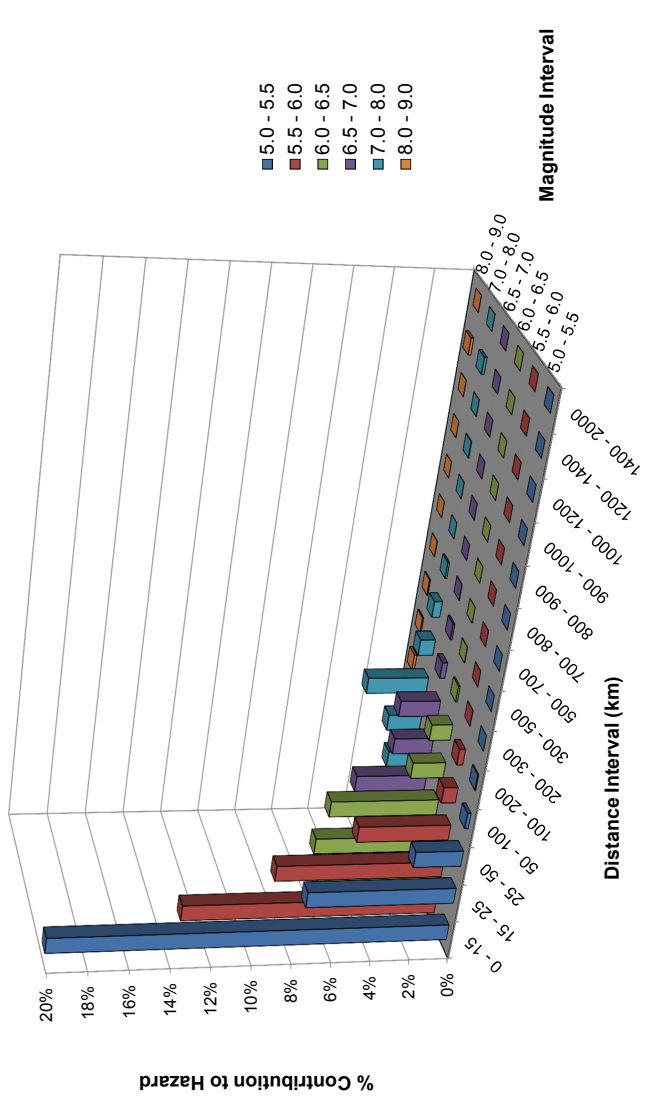

Figure 2.5-19— {Mean 1E-5 Rock Deaggregation for 5 and 10 Hz}

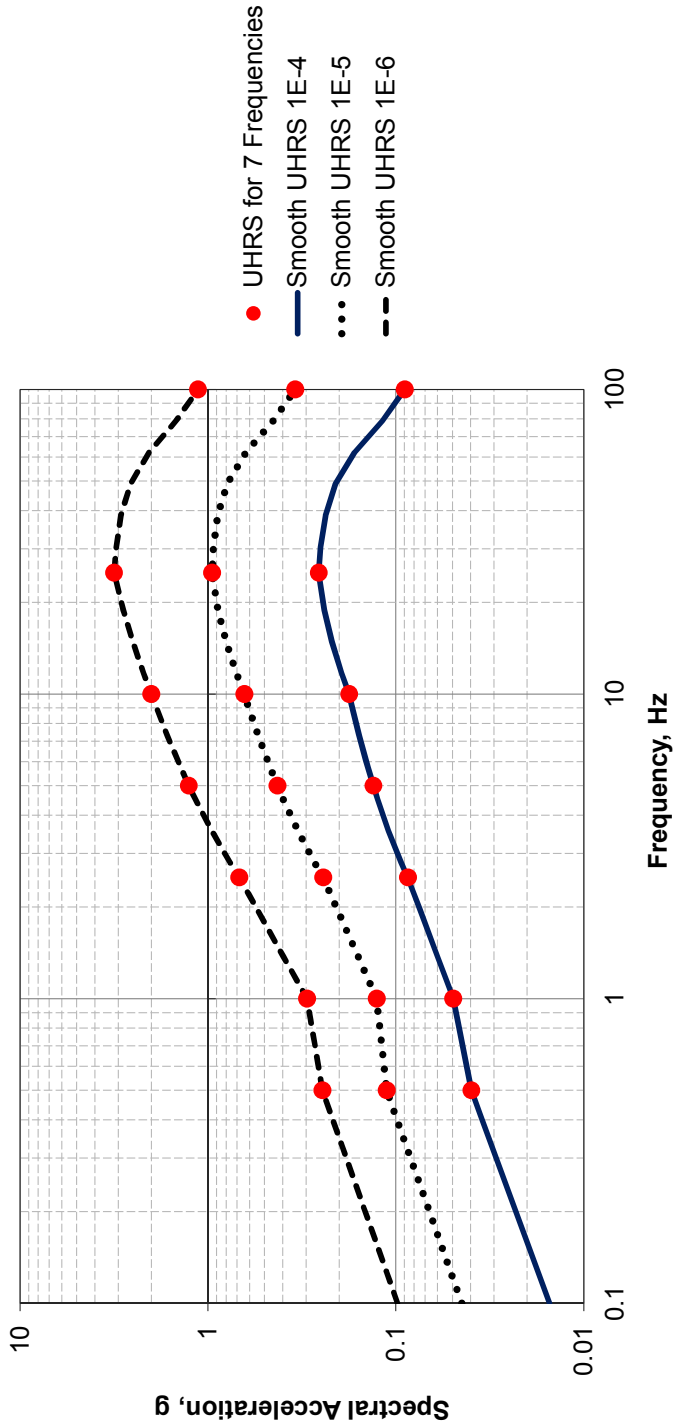

Figure 2.5-20— {Smooth Hard Rock UHRS Spectra}

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Figure 2.5-21— {Shear-Wave Velocity and its Coefficient of Variation for Depth up to 500 ft (152.4 m)}

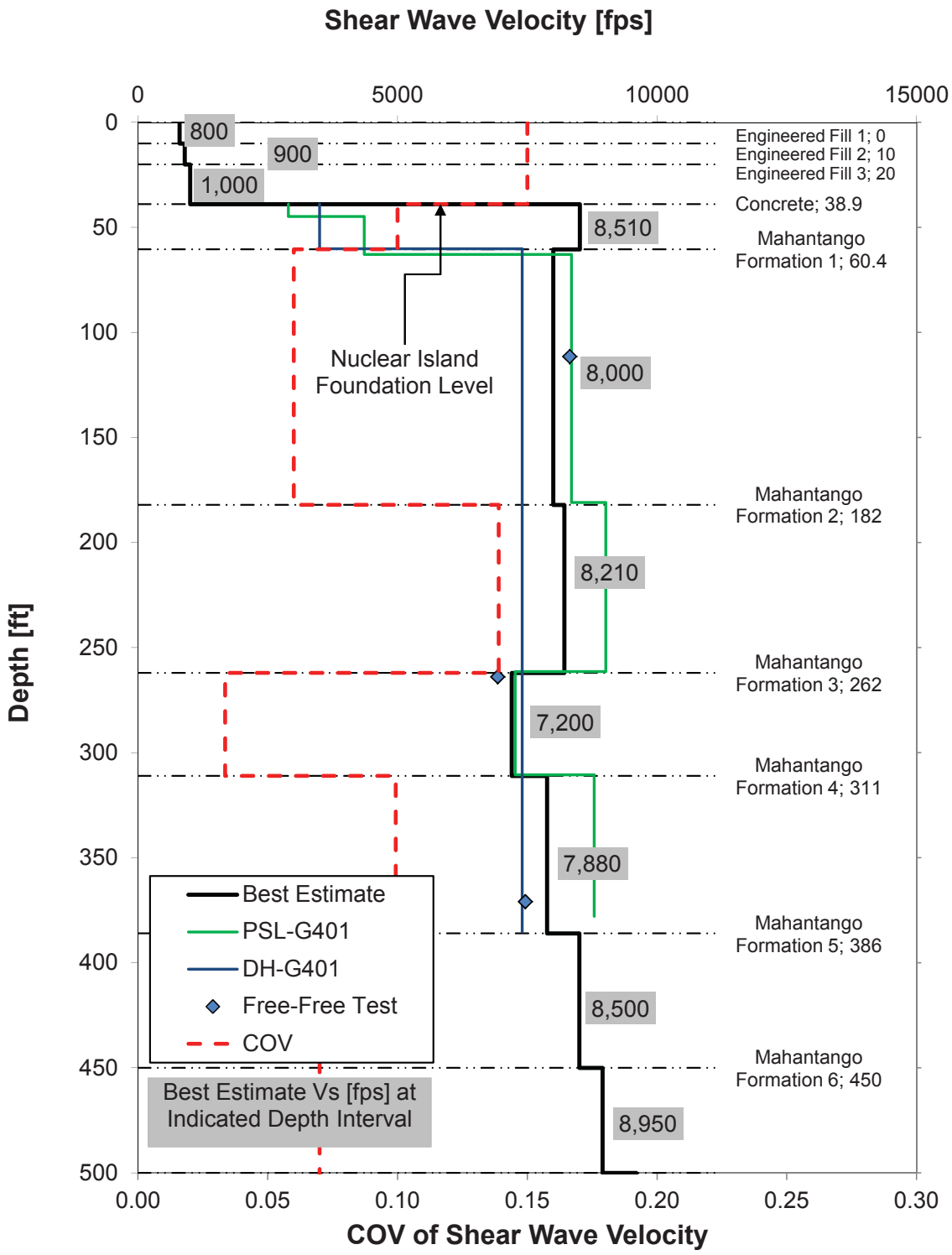

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Figure 2.5-22— {Best Estimate Shear-Wave Velocity Vs and its Coefficient of Variation for Depth up to 500 ft (152.4 m)}

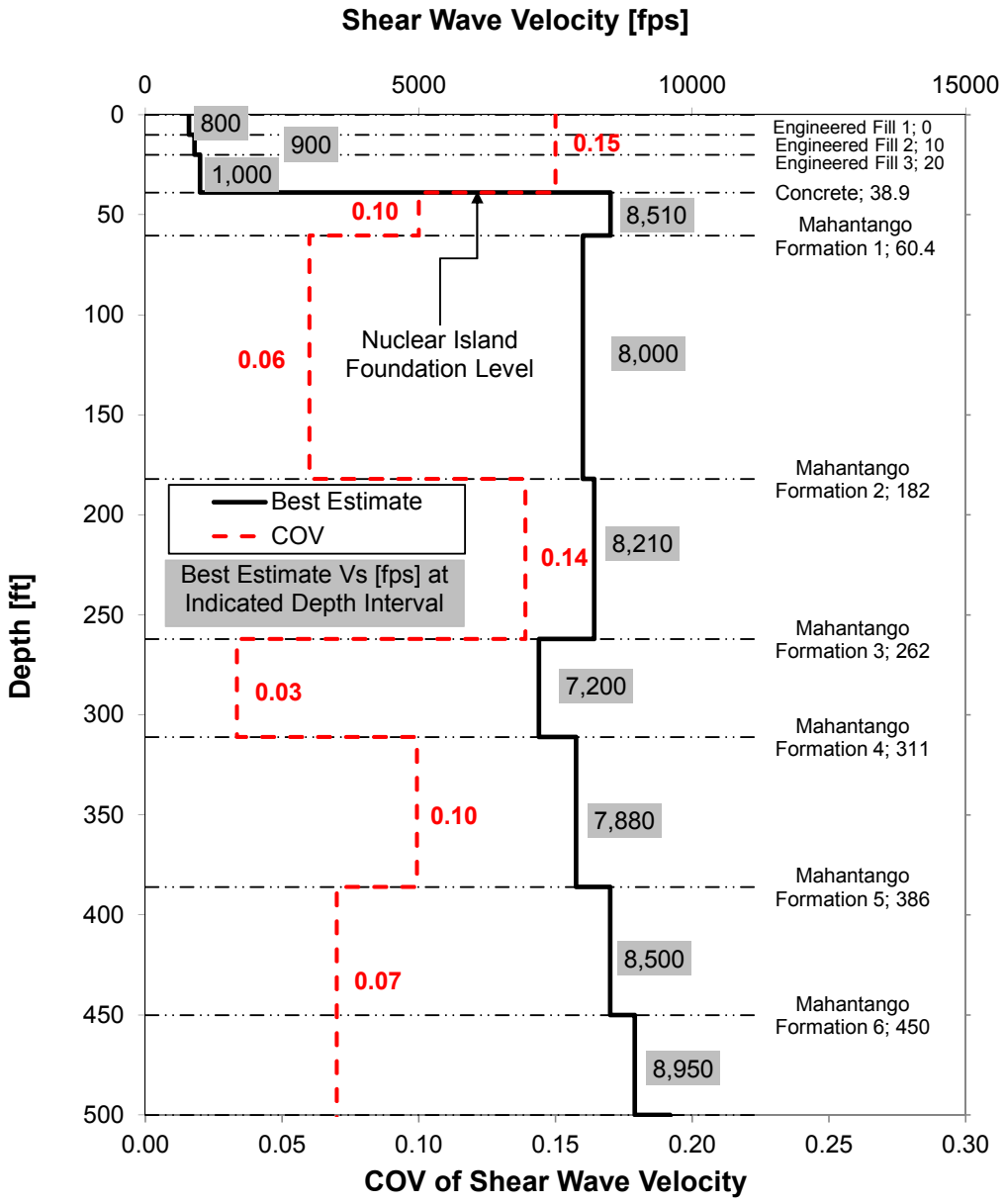

Figure 2.5-23— {60 Randomized Shear-Wave Velocity Profiles for Depth up to 500 ft (152.4 m)}

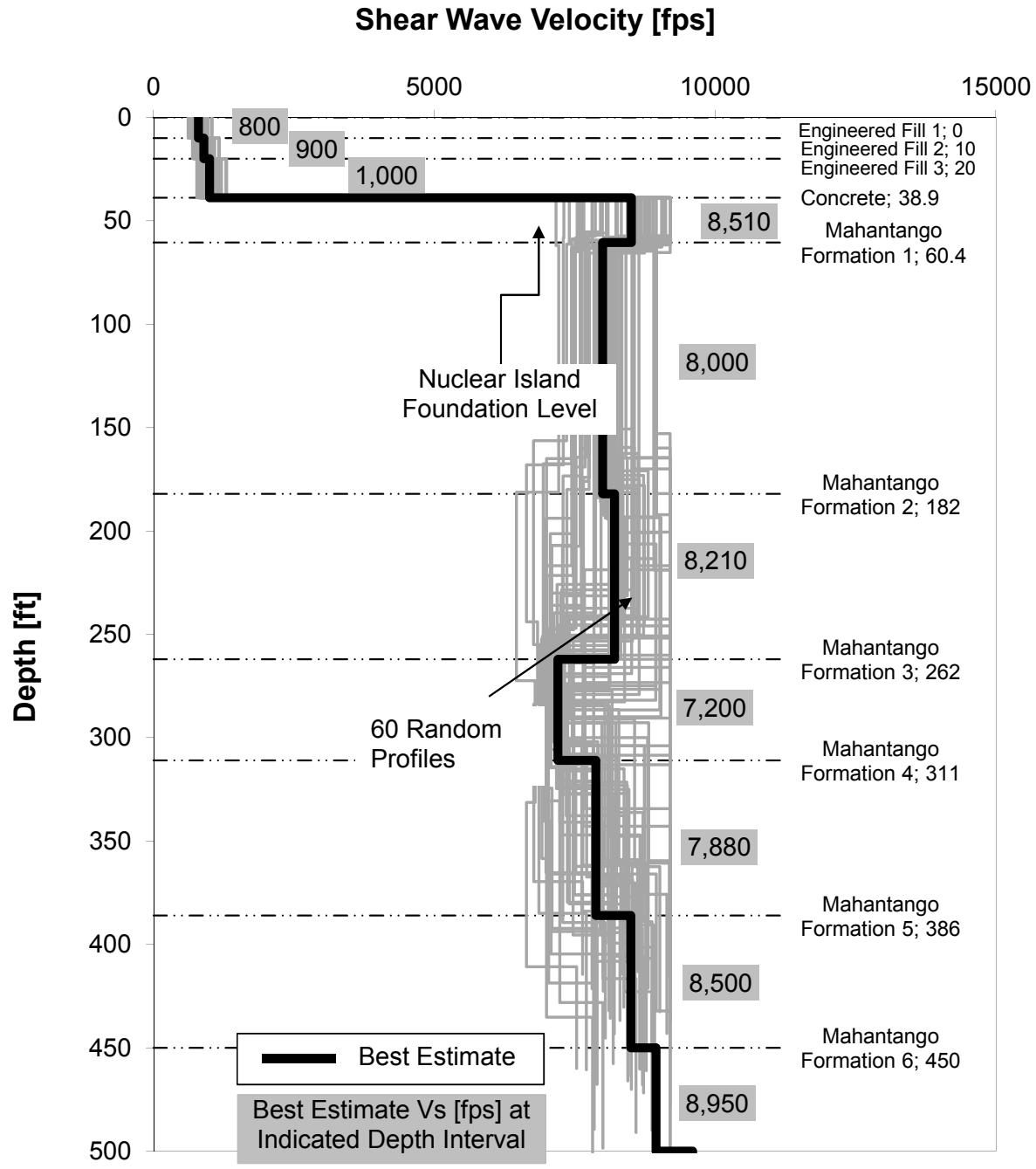

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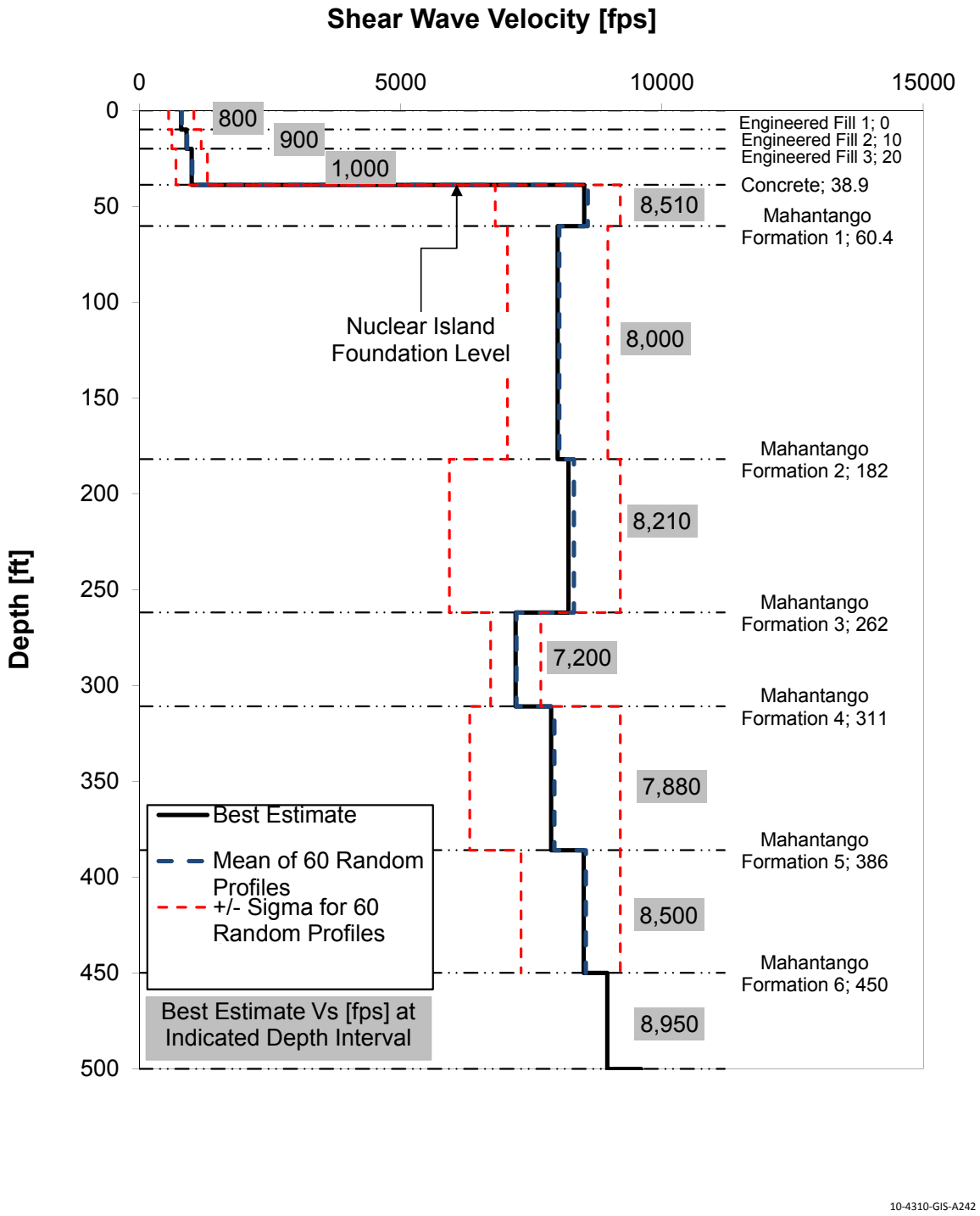
Figure 2.5-24— {Mean and Standard Deviation of 60 Randomized Shear-Wave Velocity Profiles Compared with Best Estimate}



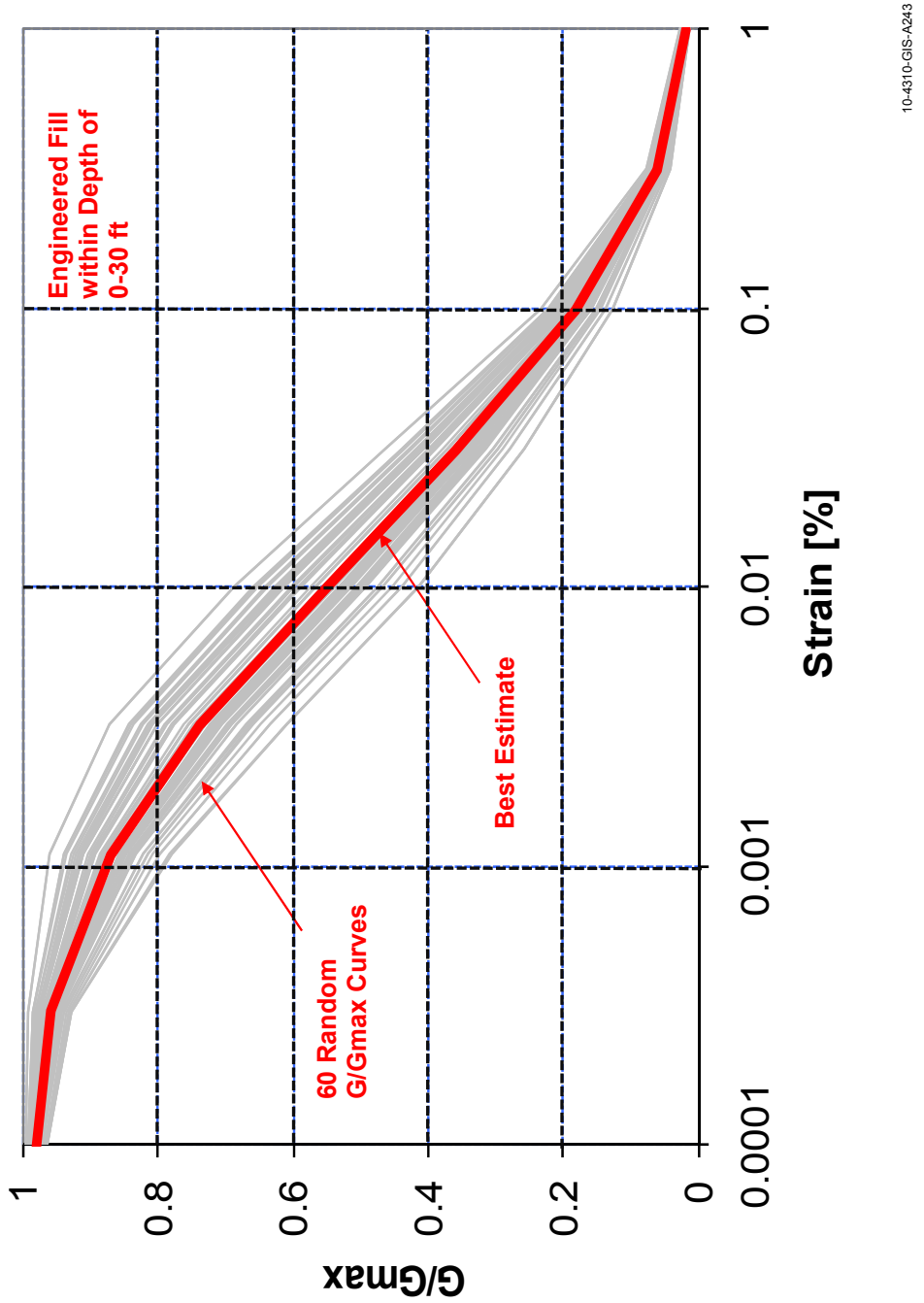


Figure 2.5-25— {G/Gmax Curves Representing Uncertainty in Shear Modulus for Engineered Fill within Depth 0-30 ft}

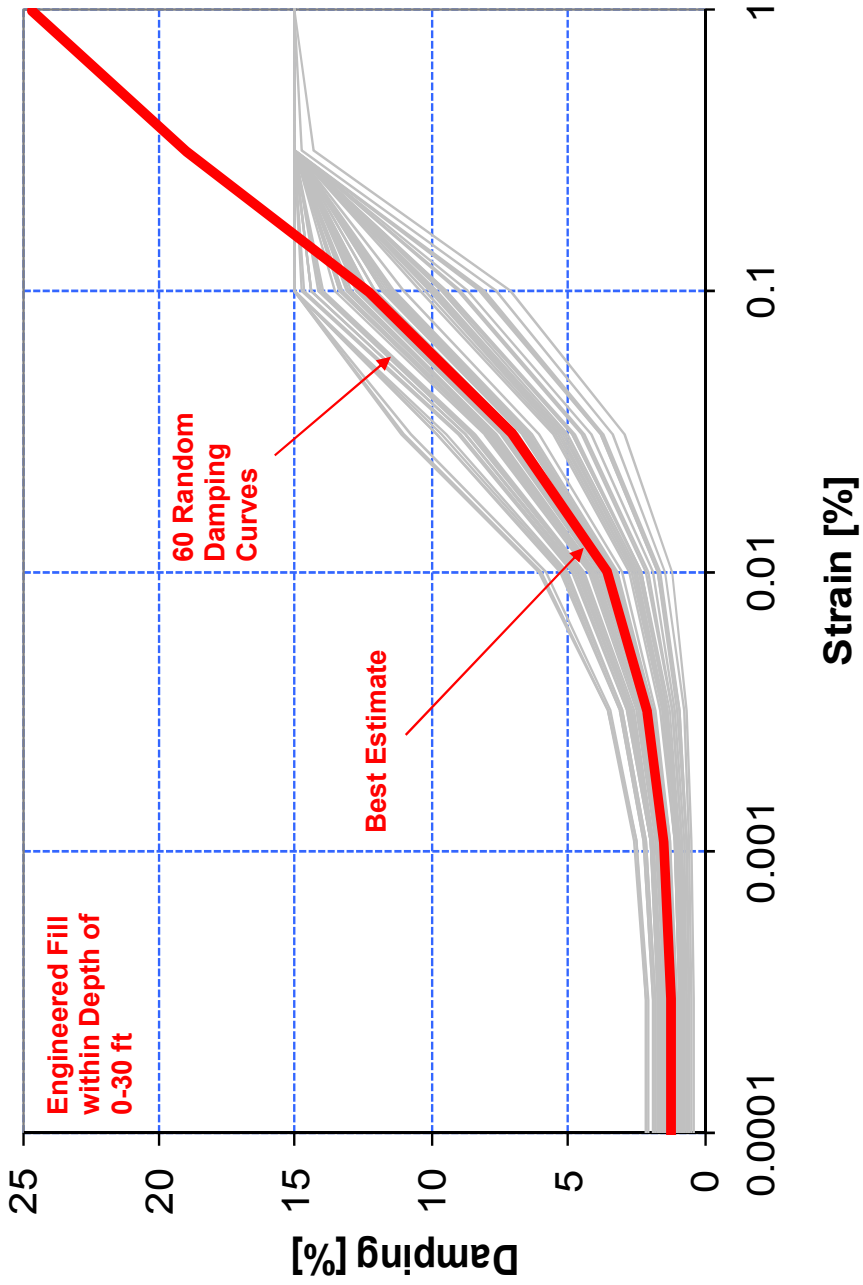


Figure 2.5-26— {Damping Curves Representing Uncertainty in Damping for Engineered Fill within Depth 0-30 ft}

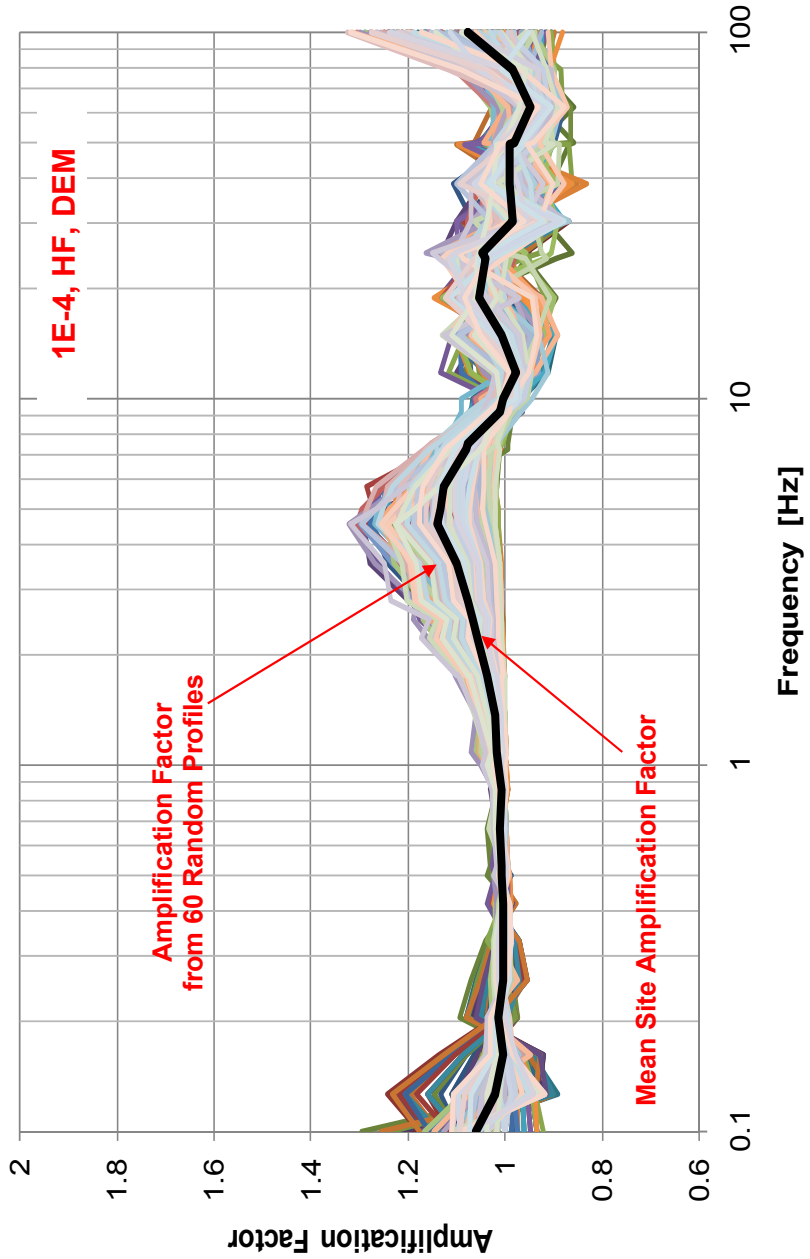
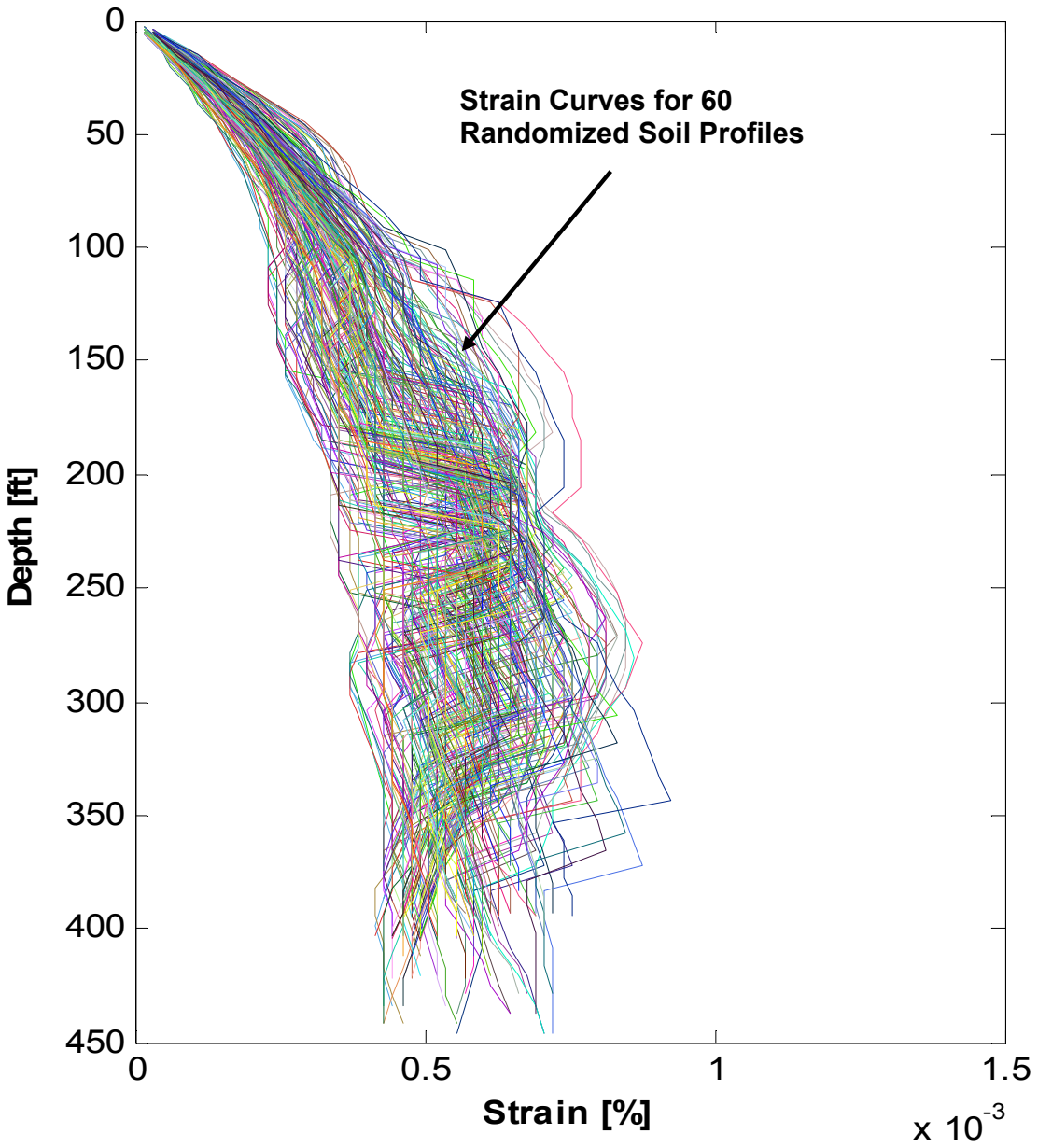


Figure 2.5-27— {Mean Site Amplification Factor at the Ground Surface for 1E-4 HF DEM Input Motion}

Figure 2.5-28— {Maximum Strains Vs. Depth for 1E-4 HF DEM Input Motion}



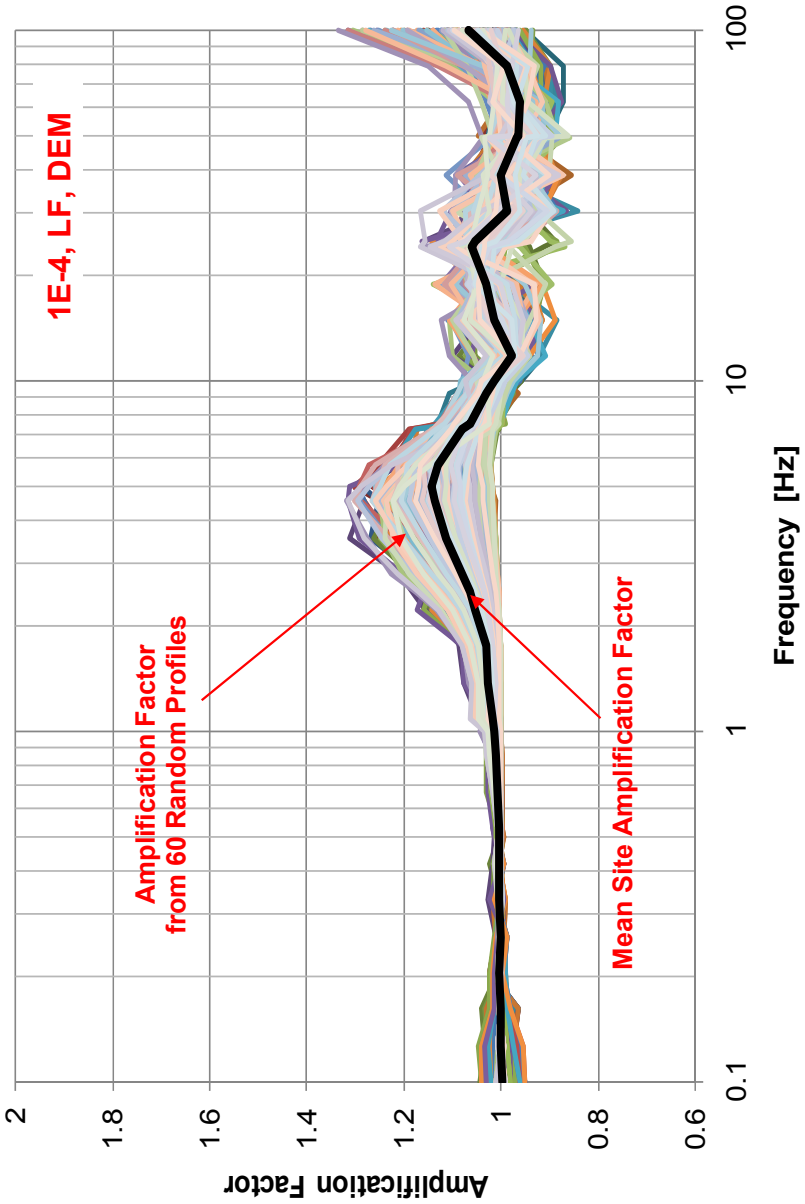
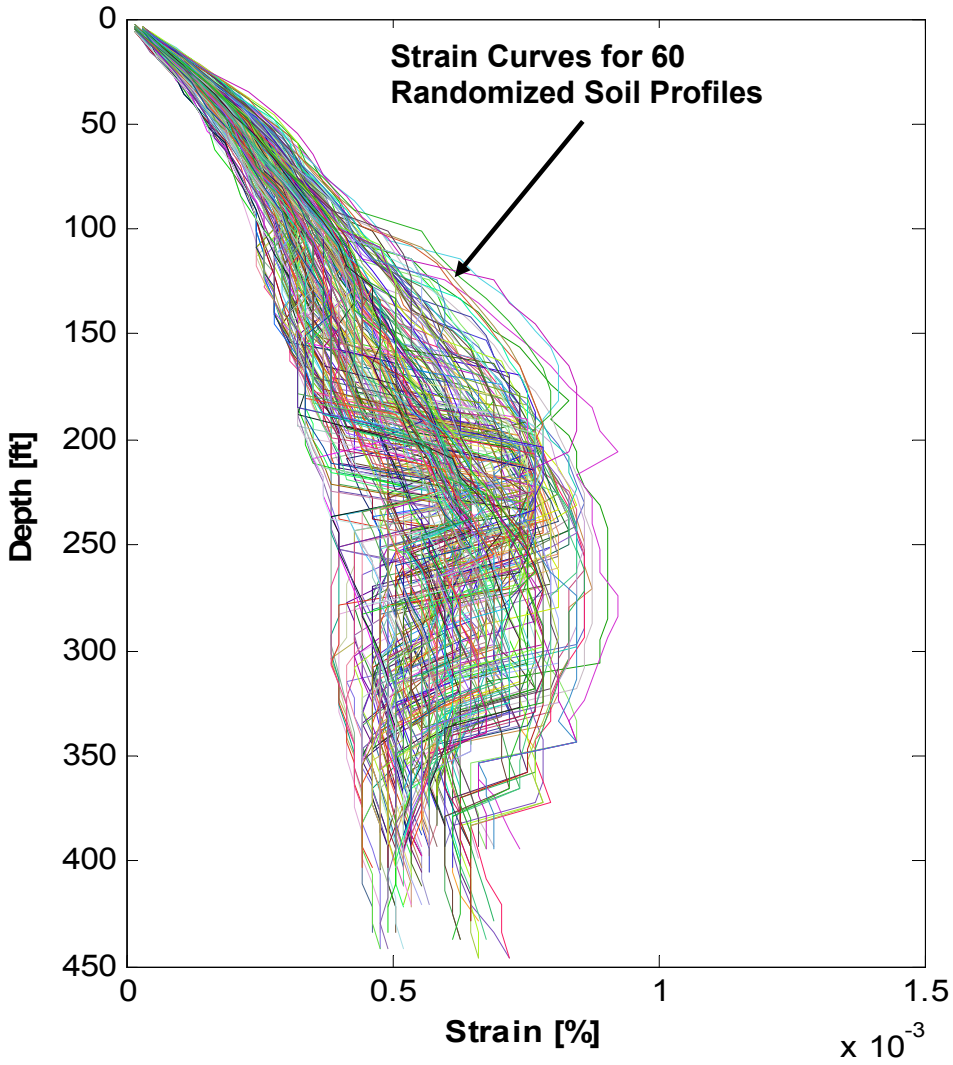


Figure 2.5-29— {Mean Site Amplification Factor at the Ground Surface for 1E-4 LF DEM Input Motion}

Figure 2.5-30— {Maximum Strains Vs, Depth for 1E-4 LF DEM Input Motion}



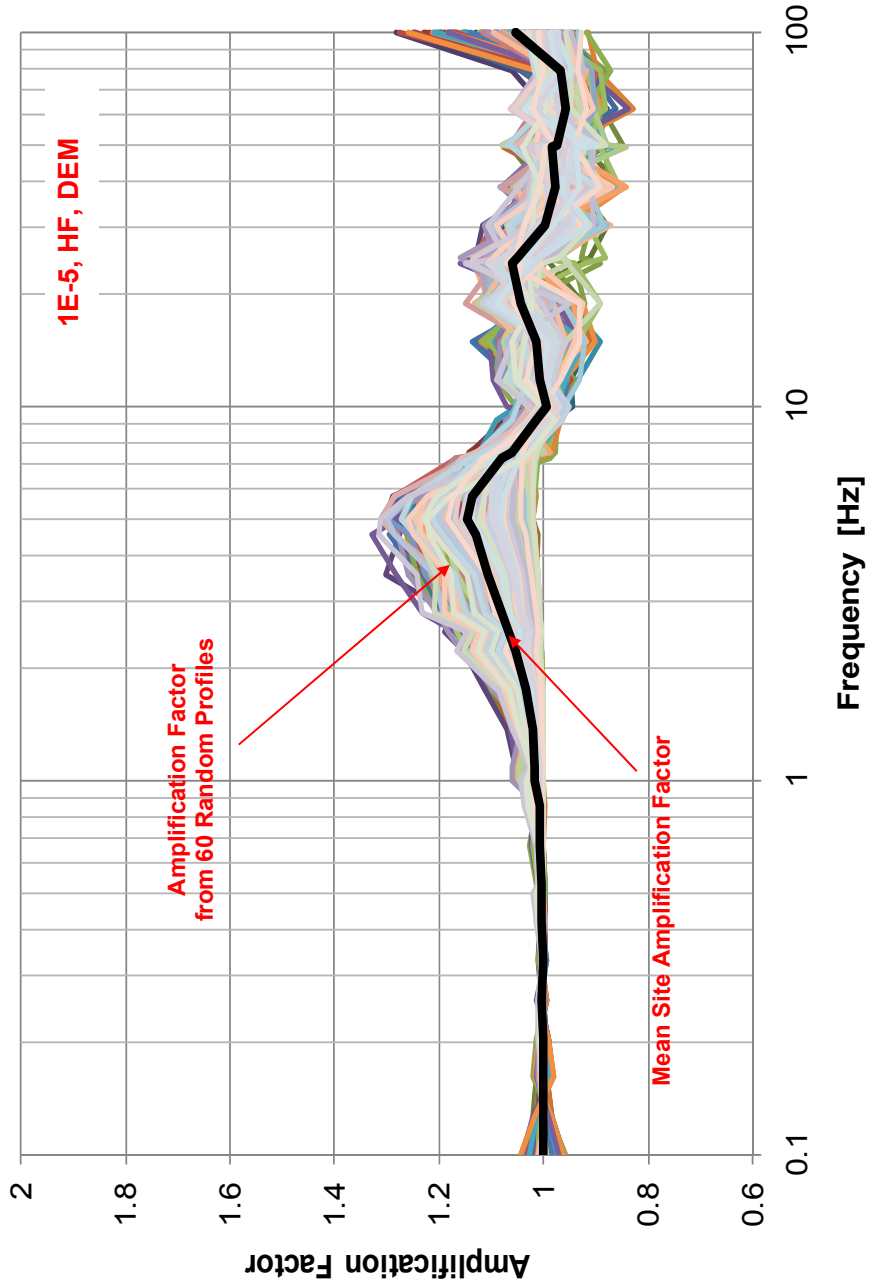
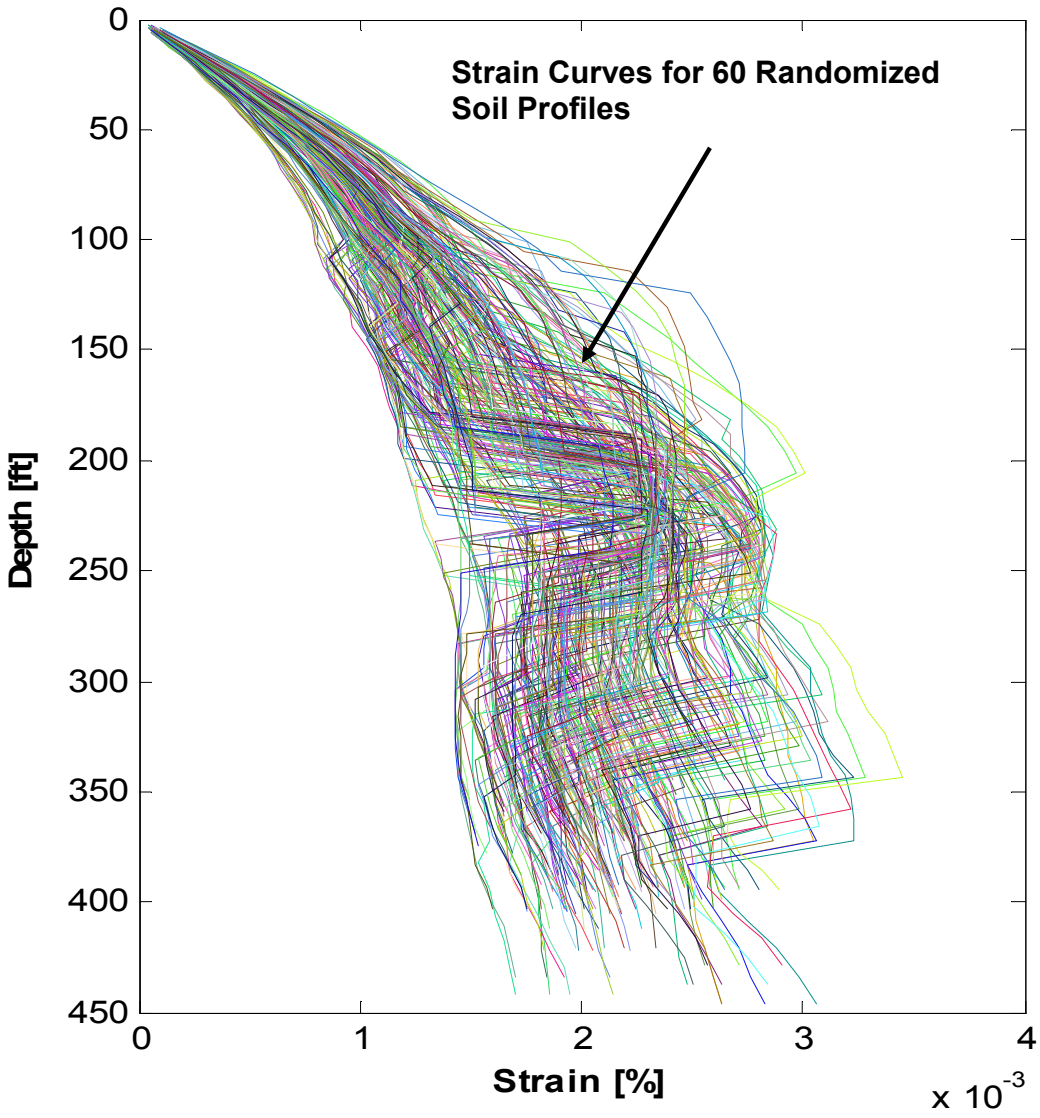


Figure 2.5-31— {Mean Site Amplification Factor at the Ground Surface for 1E-5 HF DEM Input Motion}

Figure 2.5-32— {Maximum Strains Vs. Depth for 1E-5 HF DEM Input Motion}



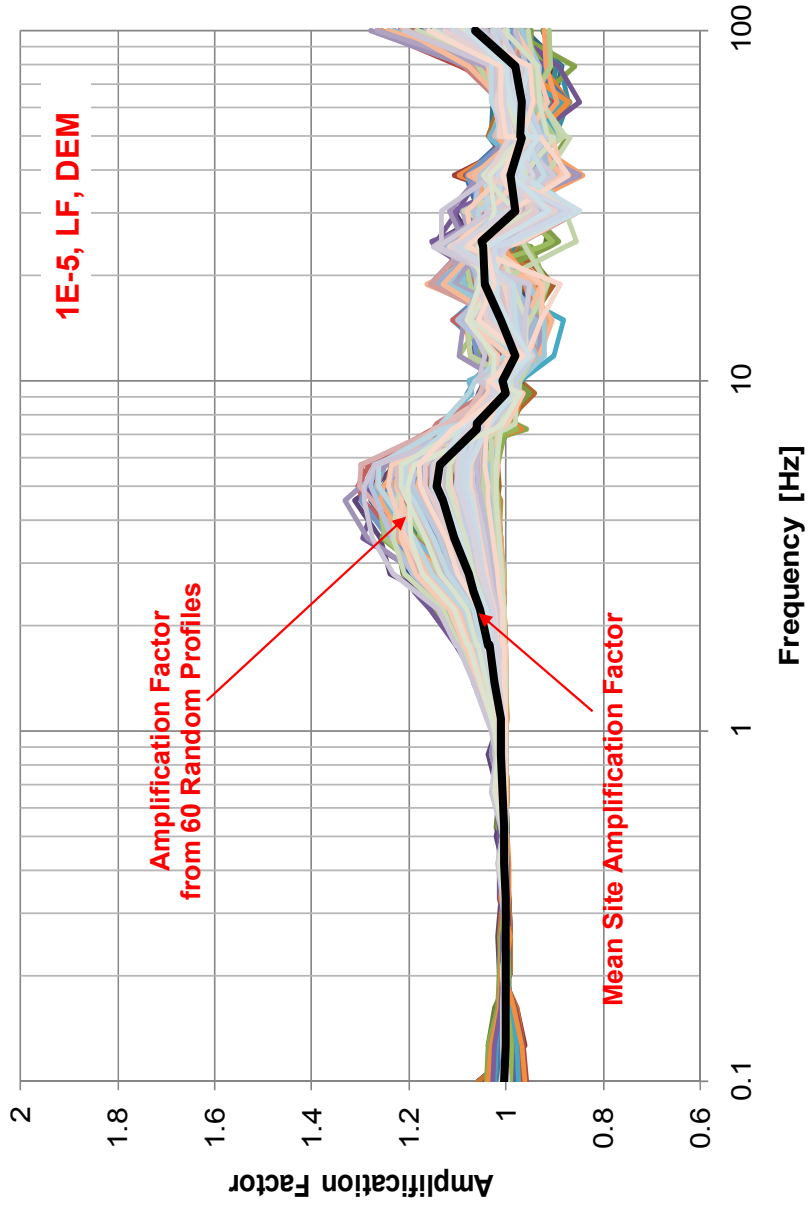
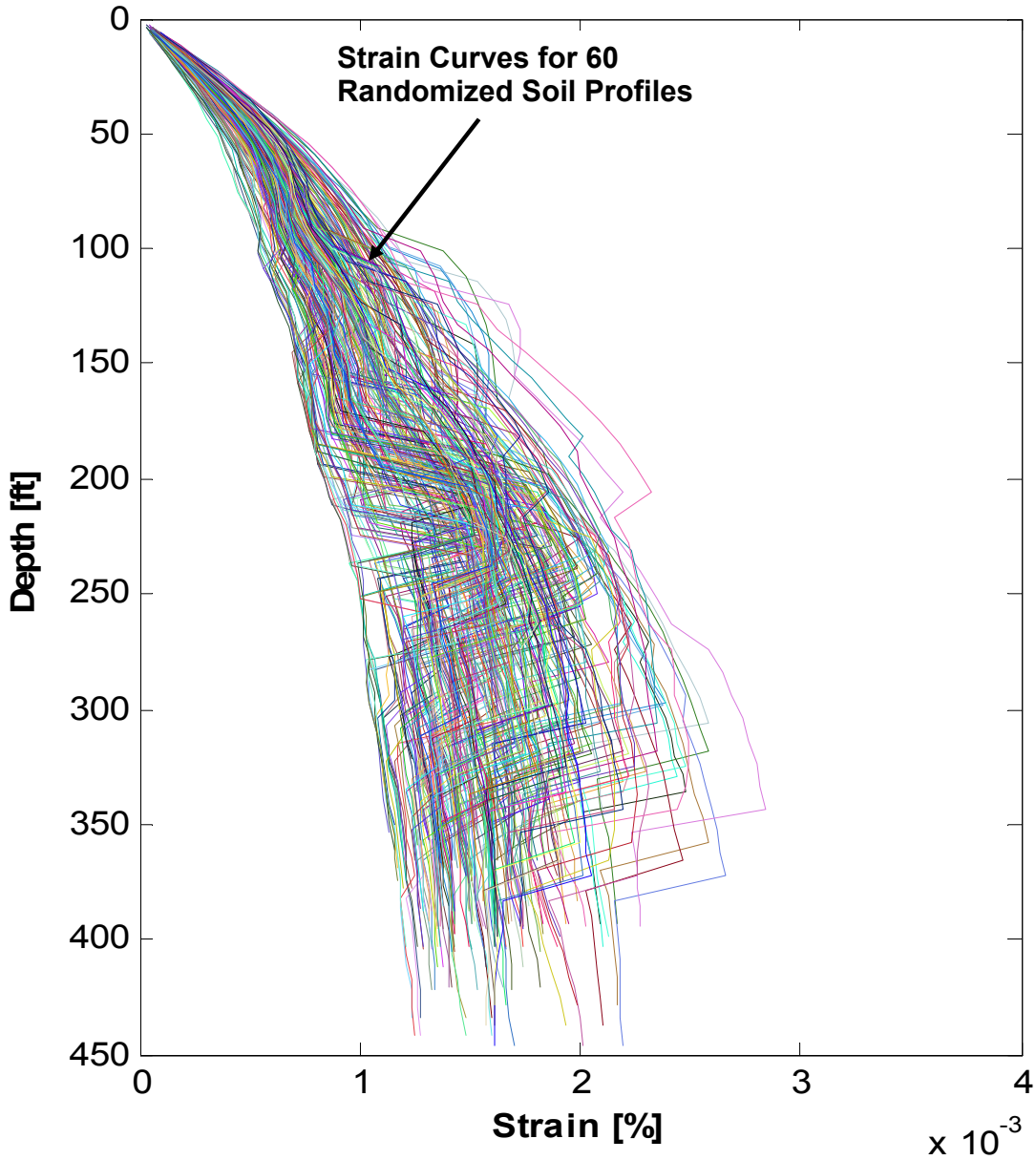


Figure 2.5-33— {Mean Site Amplification Factor at the Ground Service for 1E-5 LF DEM Input Motion}

Figure 2.5-34— {Maximum Strains Vs. Depth for 1E-5 LF DEM Input Motion}



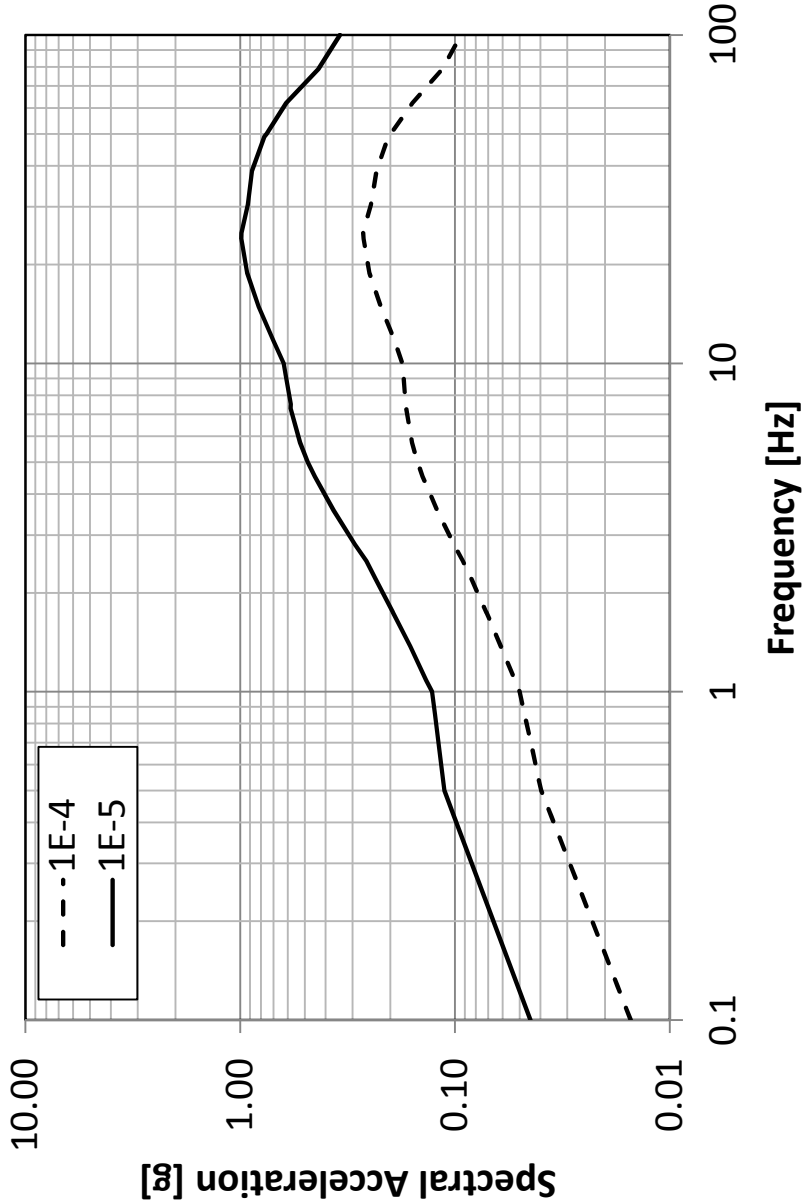


Figure 2.5-35— {UHRS at Top of Competent Material (Mahantango Formation 1) with 1E-4 and 1E-5 Mean Annual Probability of Exceedance}

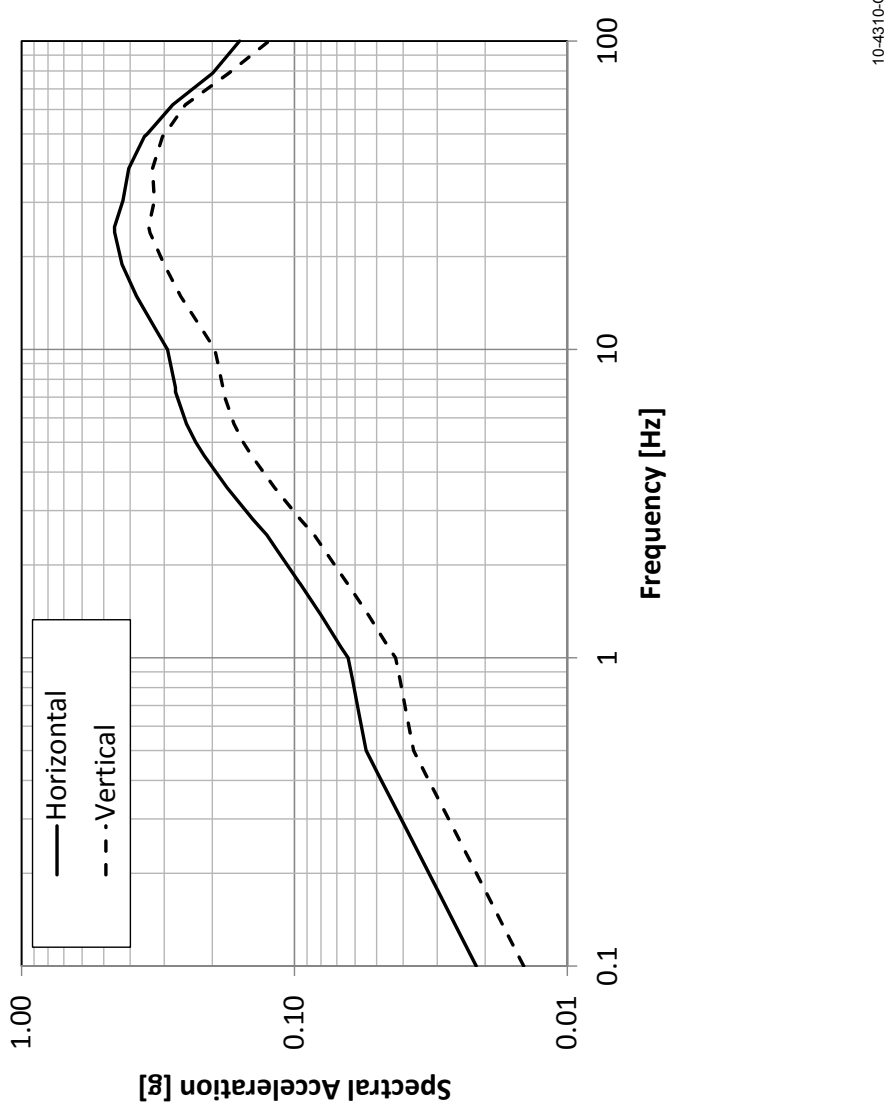


Figure 2.5-36— {Horizontal and Vertical GMRS at the Top of Competent Material (Mahantango Formation 1)}

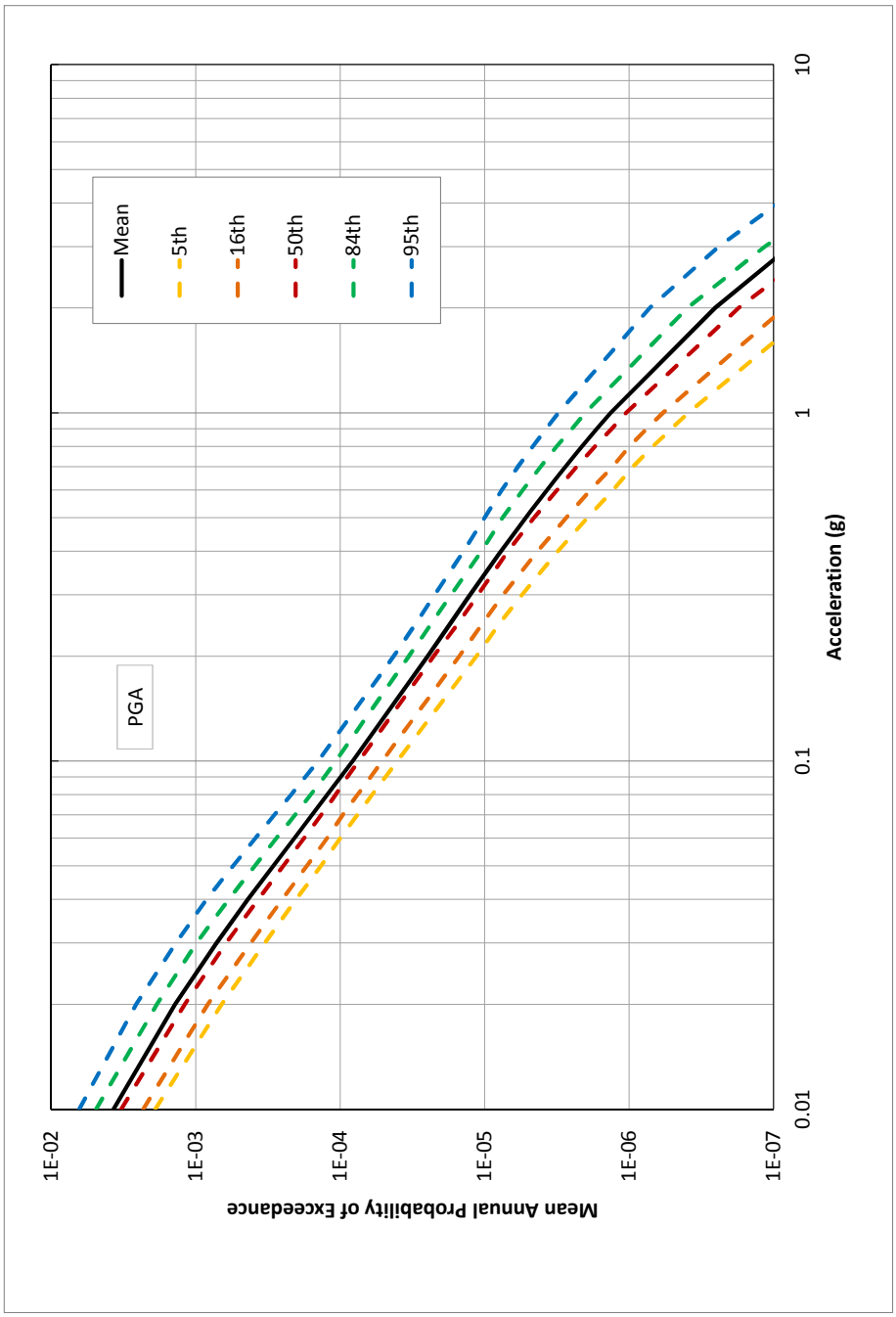


Figure 2.5-37— {Mean and Fractile Rock Hazard Curves for PGA}

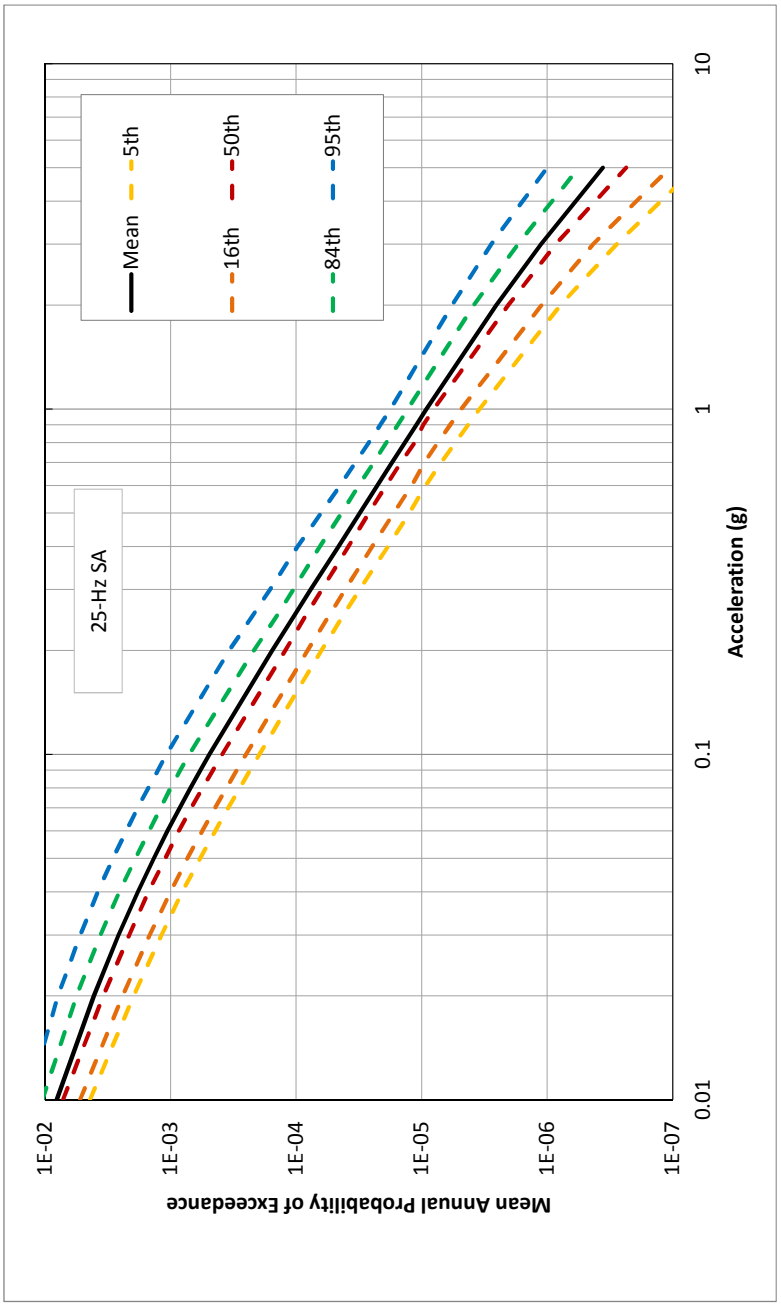


Figure 2.5-38— {Mean and Fractile Rock Hazard Curves for 25Hz}

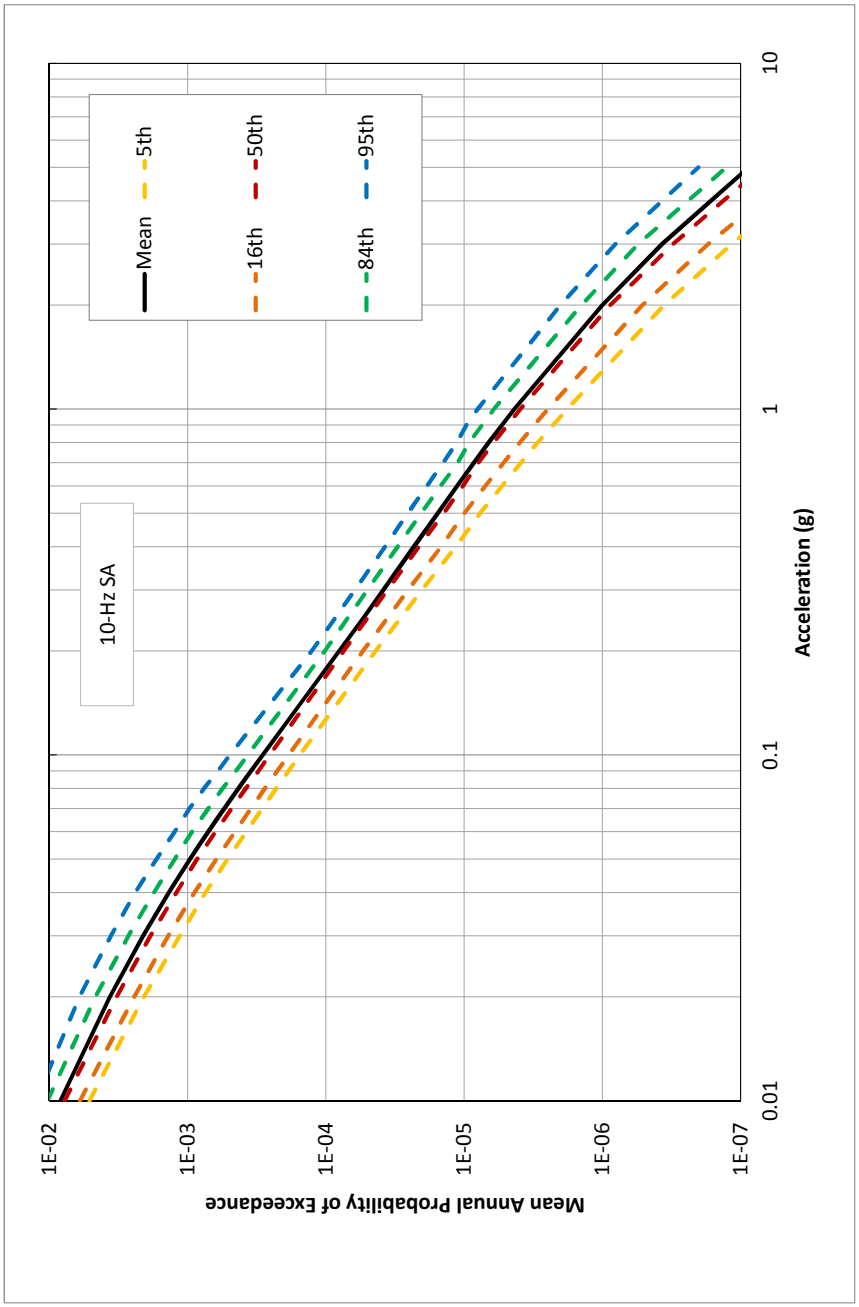


Figure 2.5-39— {Mean and Fractile Rock Hazard Curves for 10 Hz}

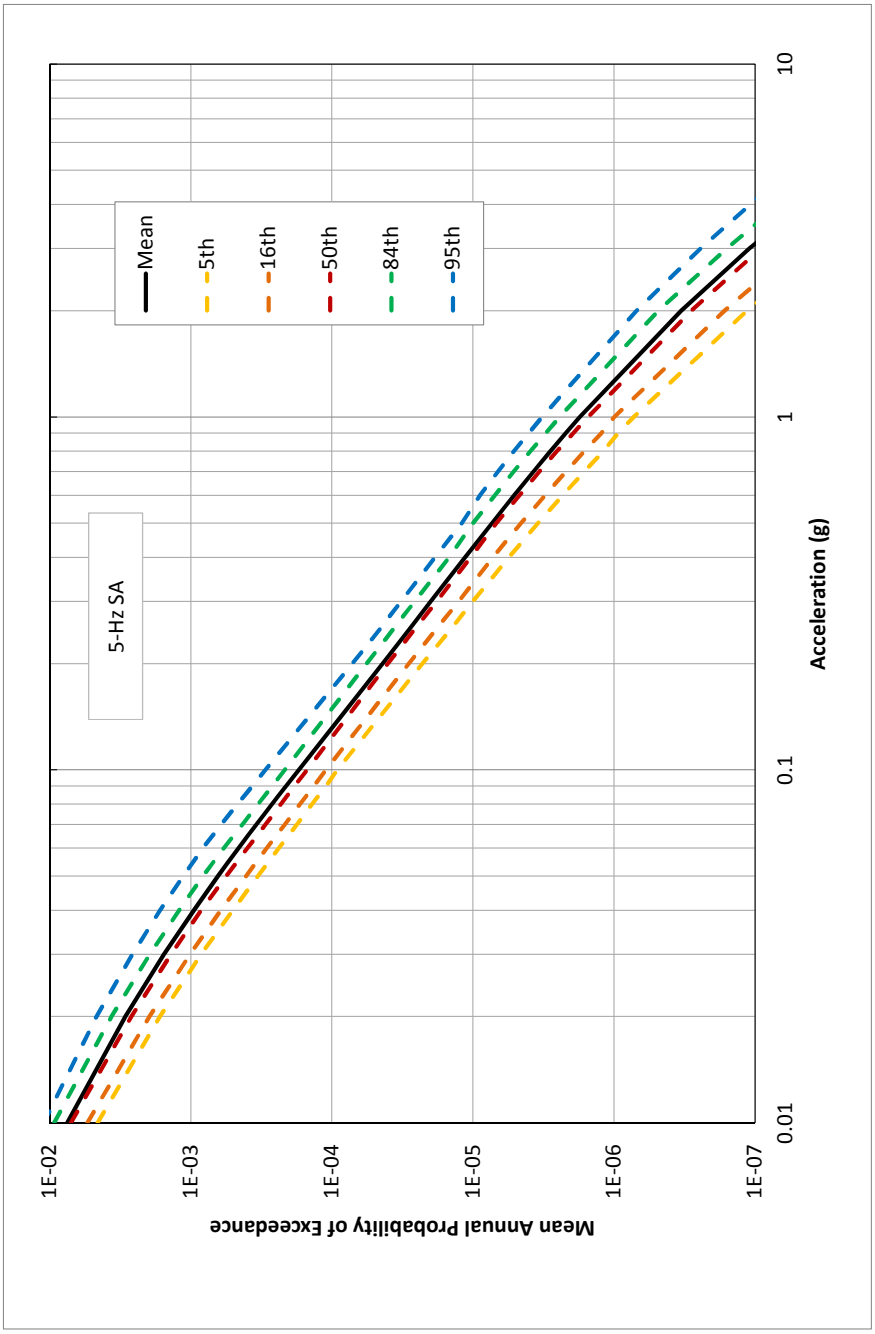


Figure 2.5-40— {Mean and Fractile Rock Hazard Curves for 5.0 Hz}

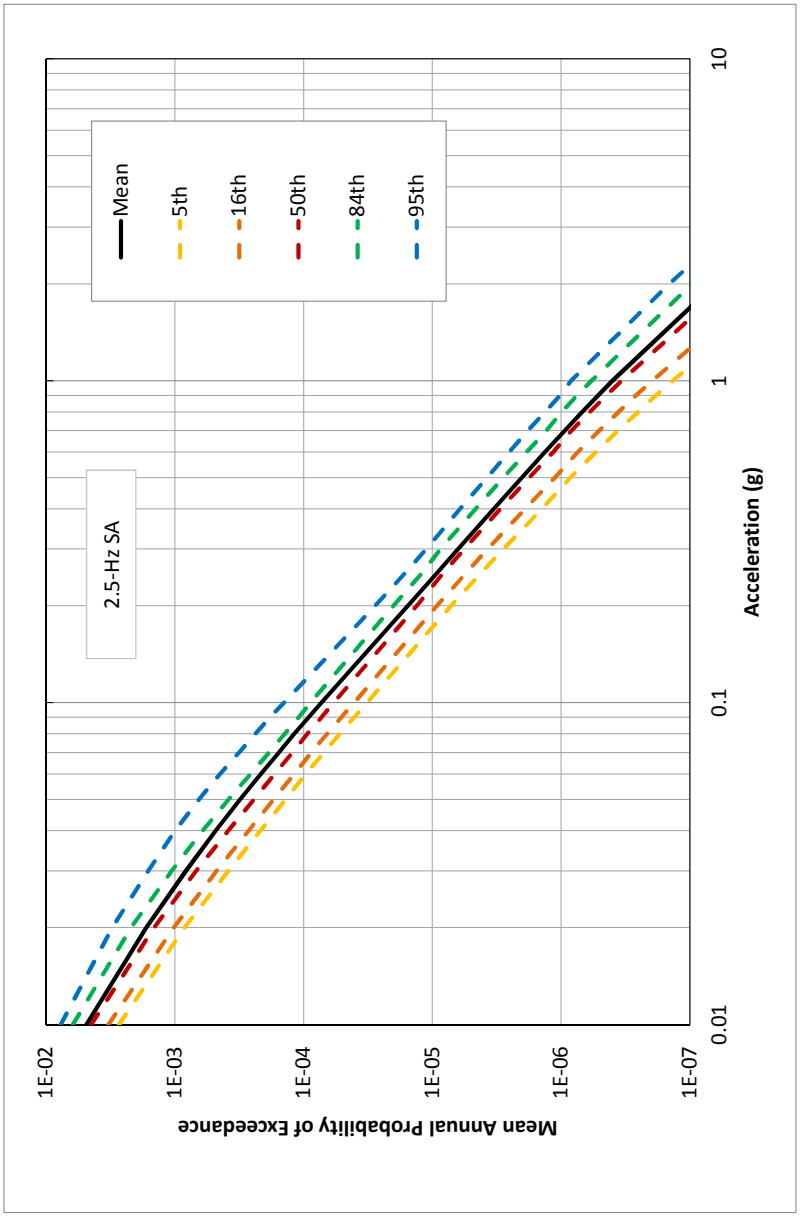


Figure 2.5-41— {Mean and Fractile Rock Hazard Curves for 2.5 Hz}

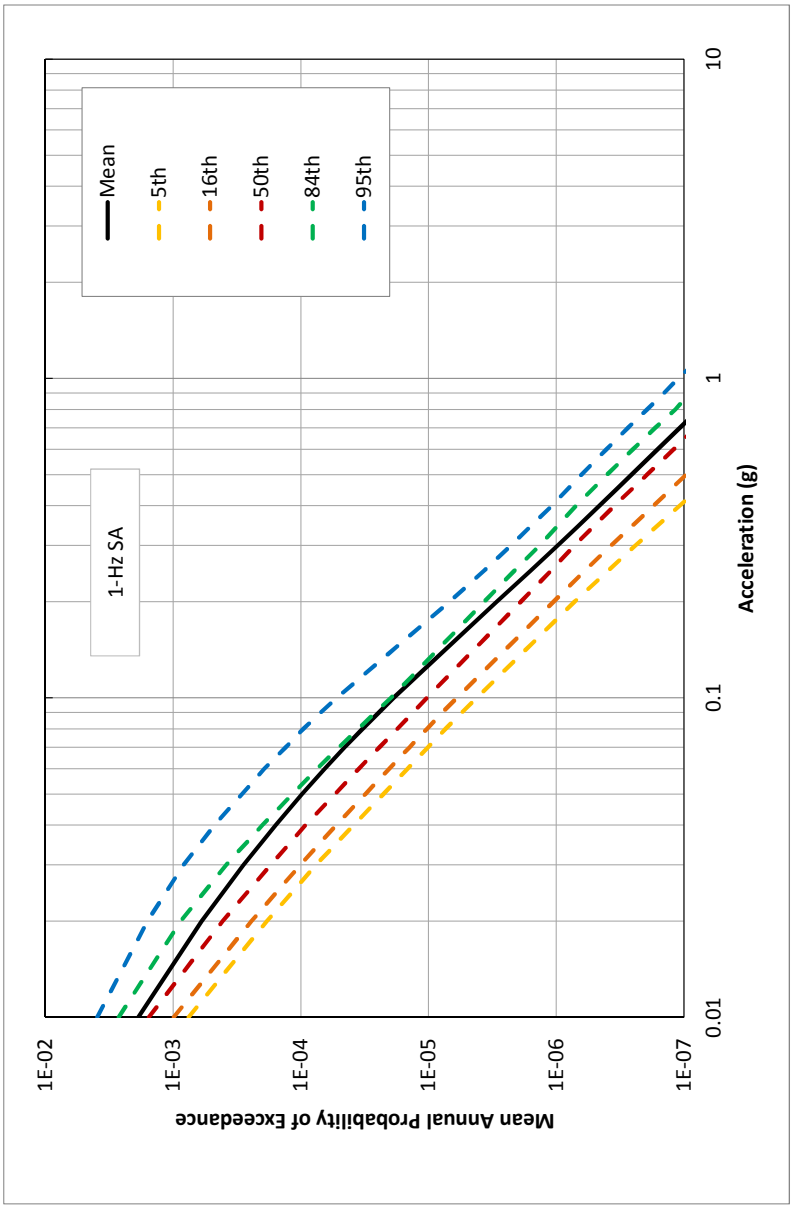


Figure 2.5-42— {Mean and Fractile Rock Hazard Curves for 1.0 Hz}

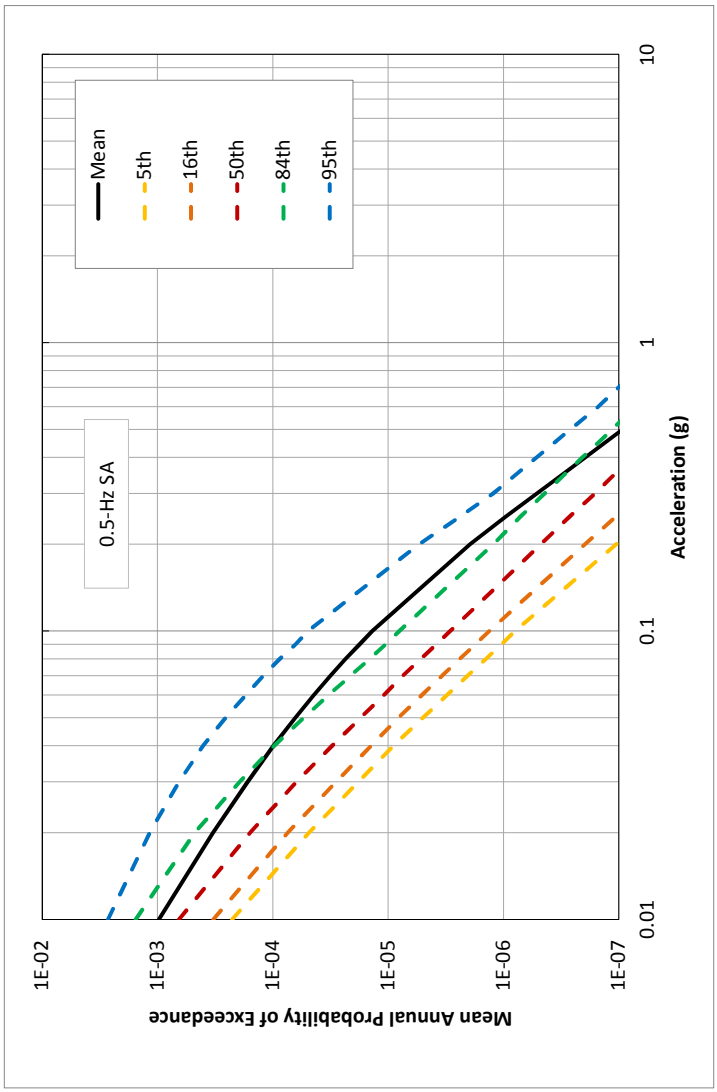


Figure 2.5-43— {Mean and Fractile Rock Hazard Curves for 0.5 Hz}
(Page 1 of 2)

Figure 2.5-43— {Mean and Fractile Rock Hazard Curves for 0.5 Hz}
(Page 2 of 2)

Figure 2.5-44— {Logic Tree of Ground Motion Models for Non-General Sources}

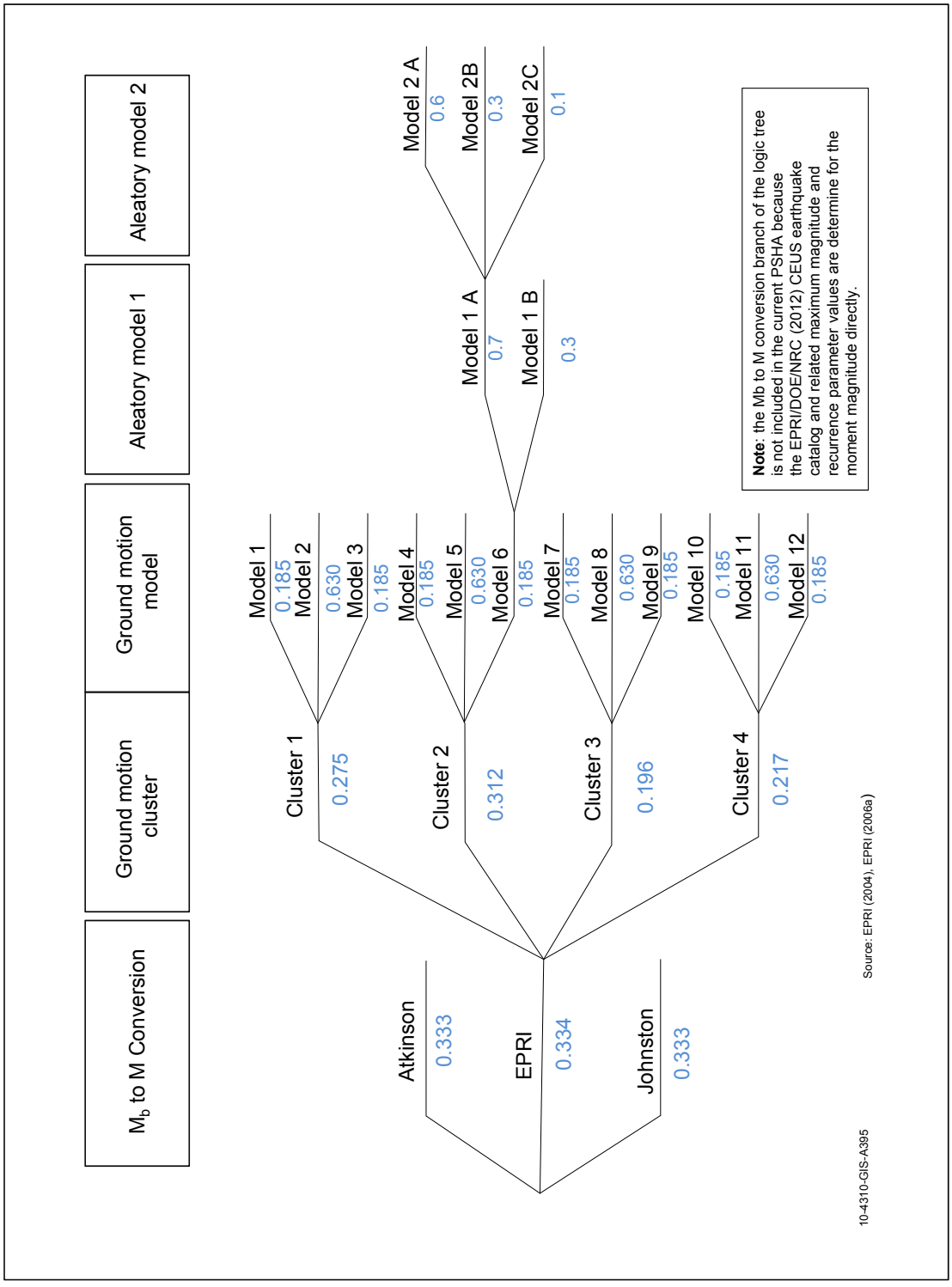


Figure 2.5-45— {Logic Tree of Ground Motion Models for General Area Sources}

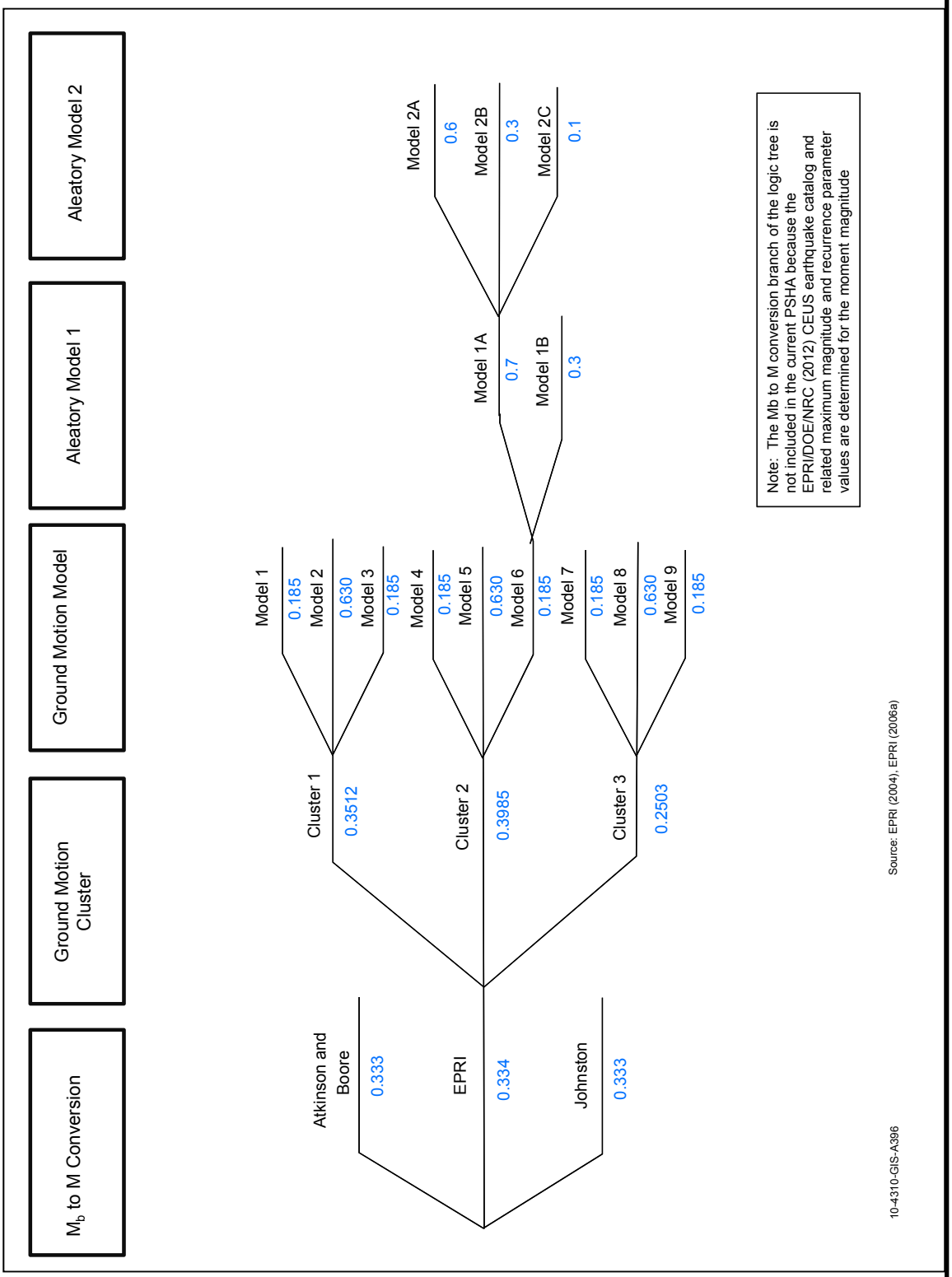
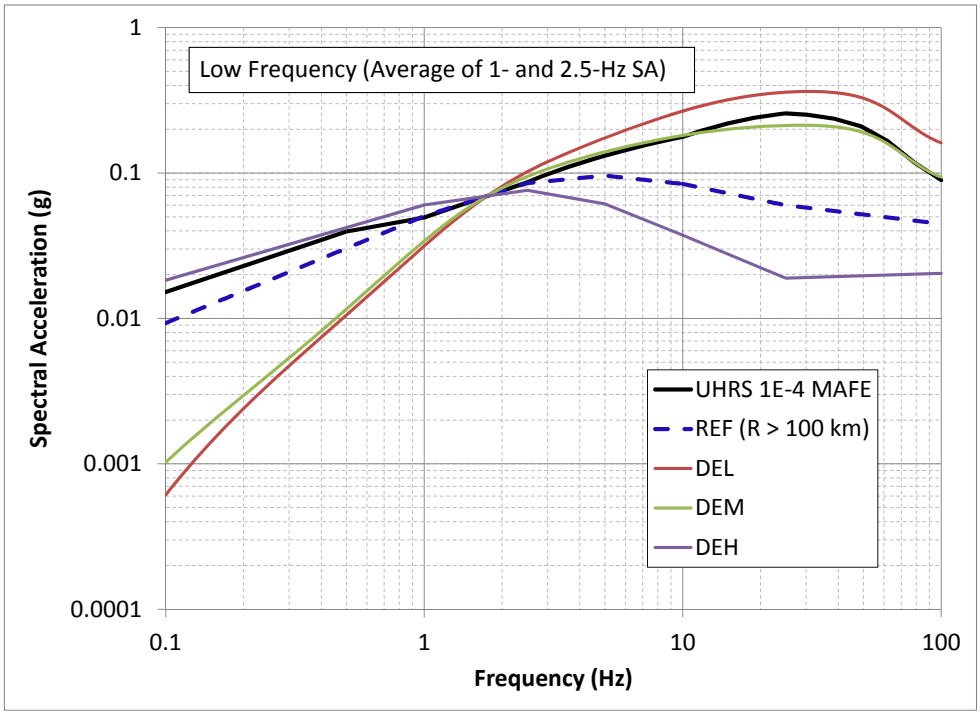


Figure 2.5-46— {1E-4 Response Spectra of Controlling Events at BBNPP}



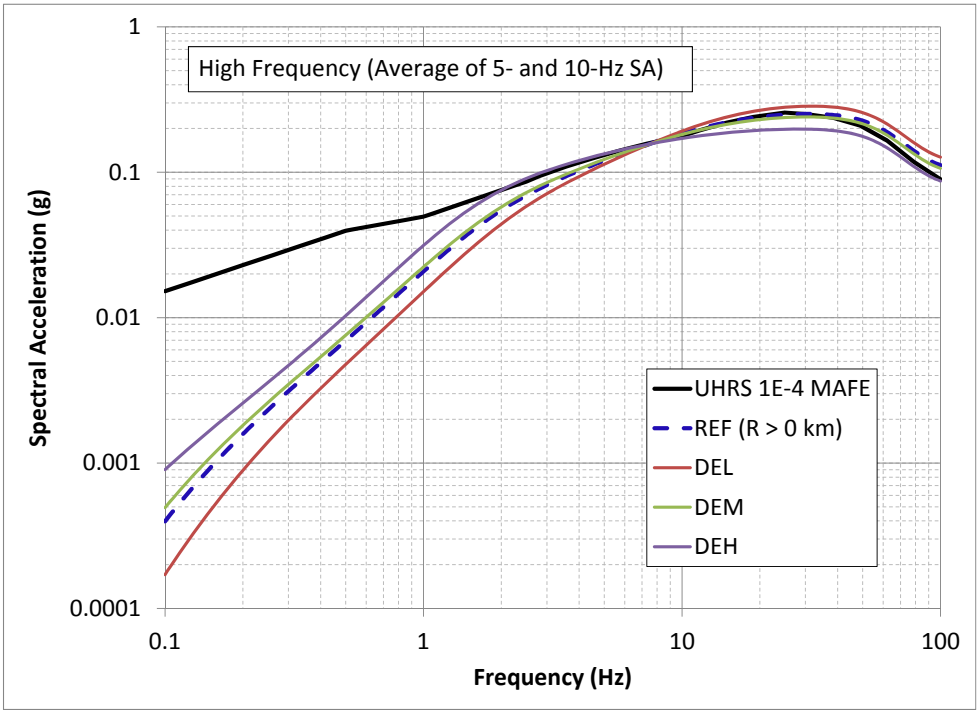
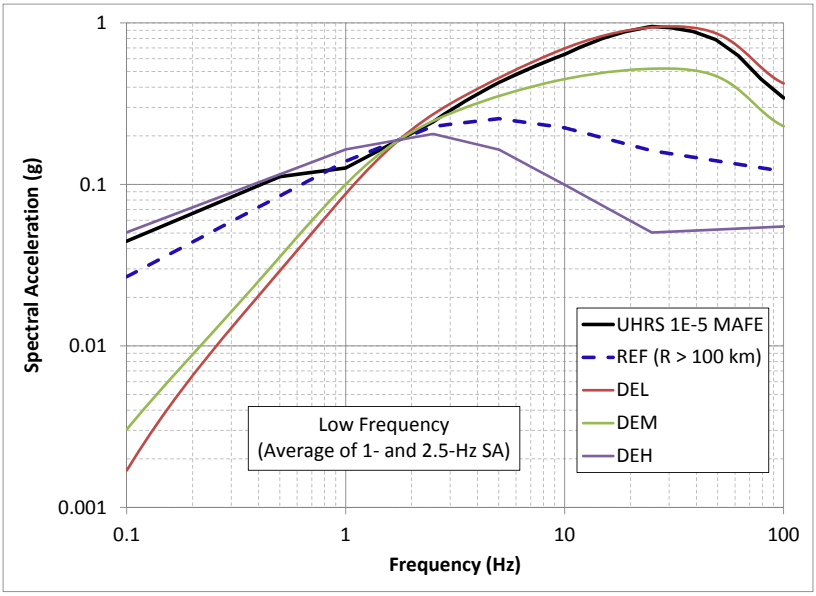


Figure 2.5-47— {1E-5 Response Spectra of Controlling Events at BBNPP}



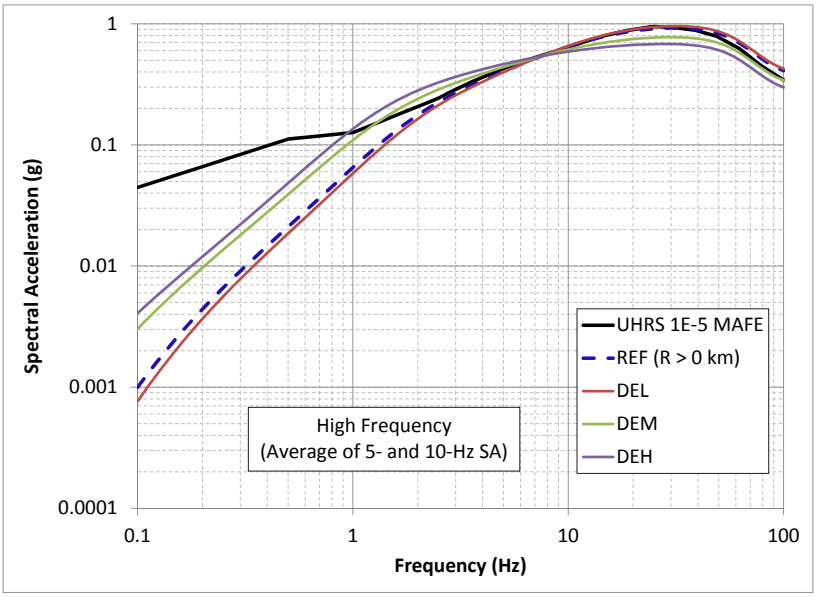


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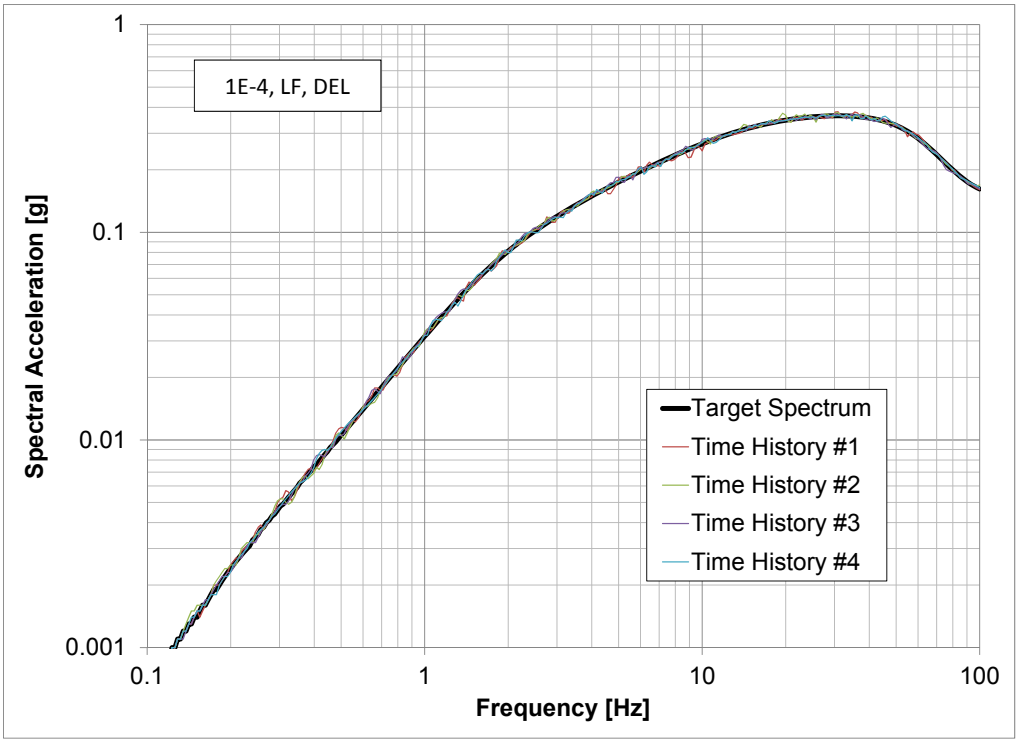
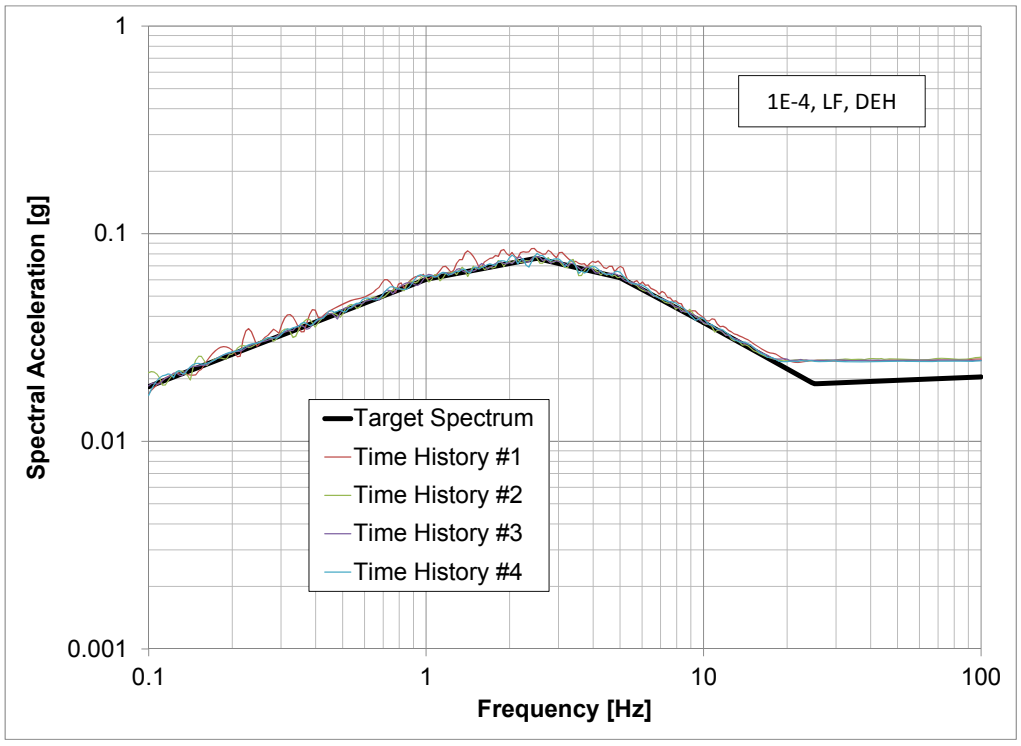
Figure 2.5-48— {Response Spectra of Selected Time Histories for 1E-4 Controlling Events LF, DEL and DEH after Spectral Matching}





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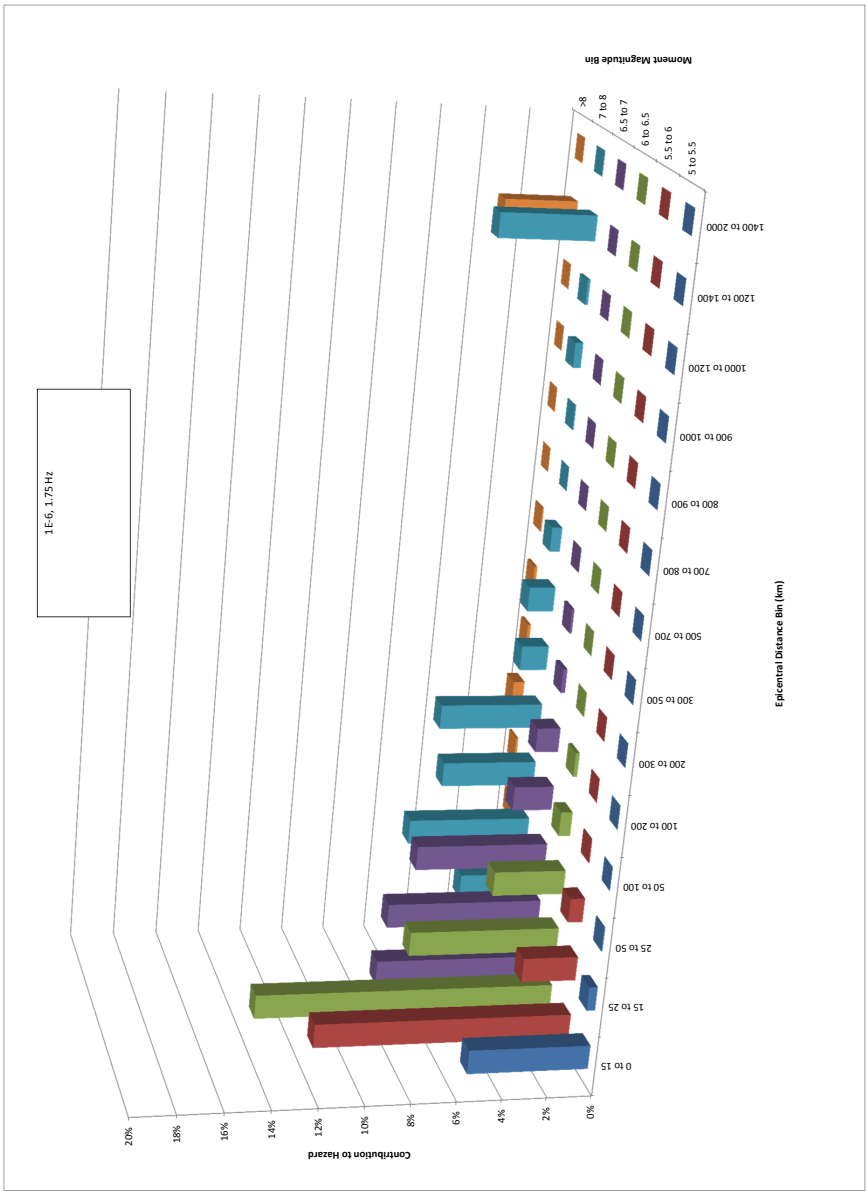

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Figure 2.5-49— {Mean 1E-6 Rock Deaggregation for 1 and 2.5 Hz}

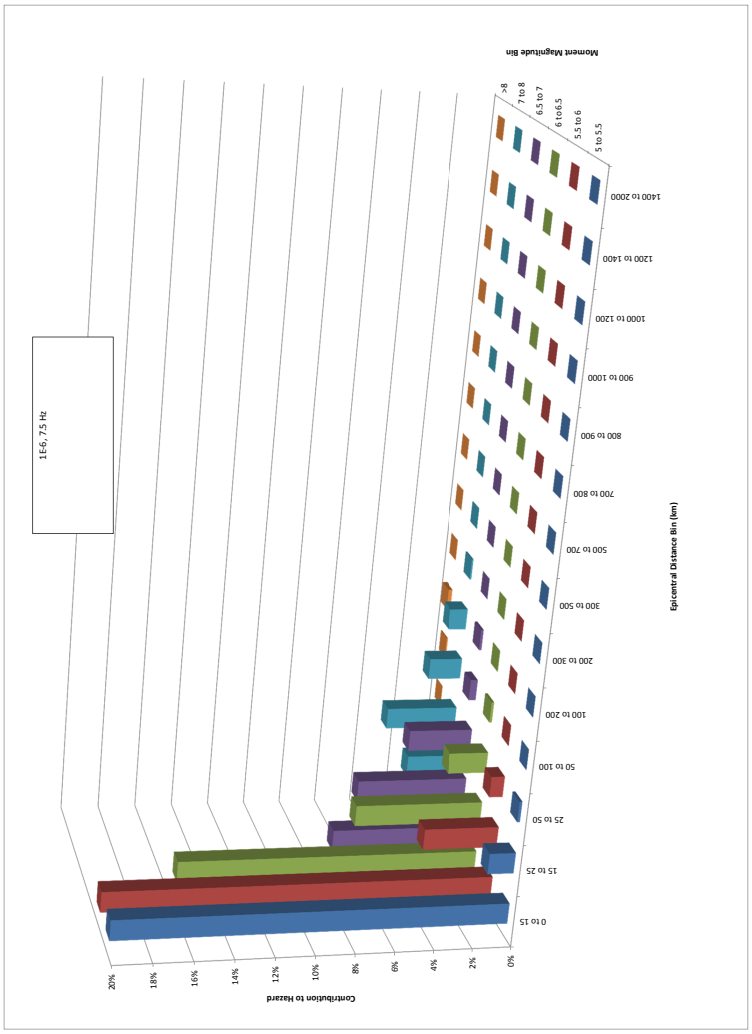


Figure 2.5-50— {Mean 1E-6 Rock Deaggregation for 5 and 10 Hz}

Figure 2.5-51— {Earthquake Epicenters Map 25-mile (40 km) radius}

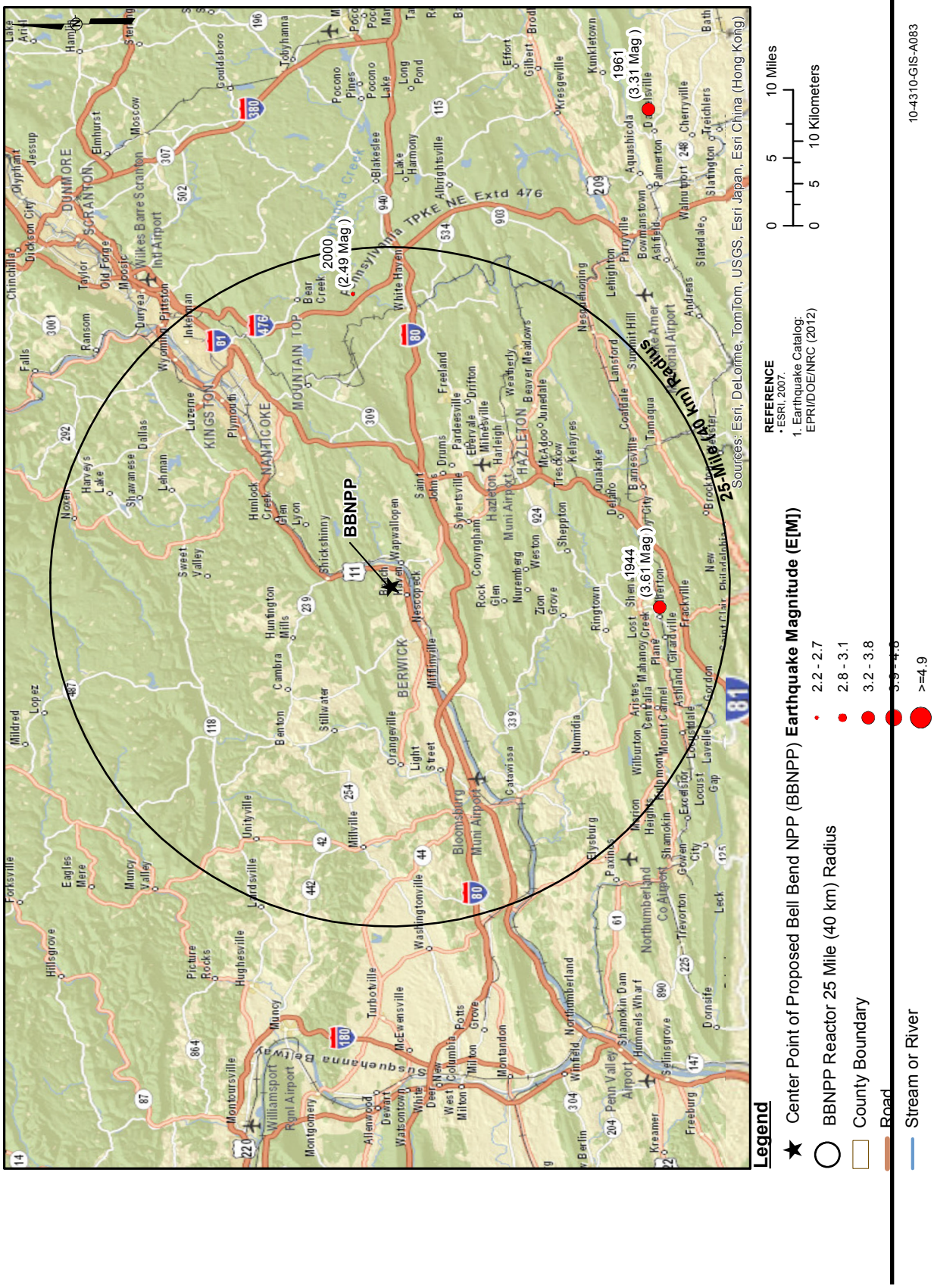
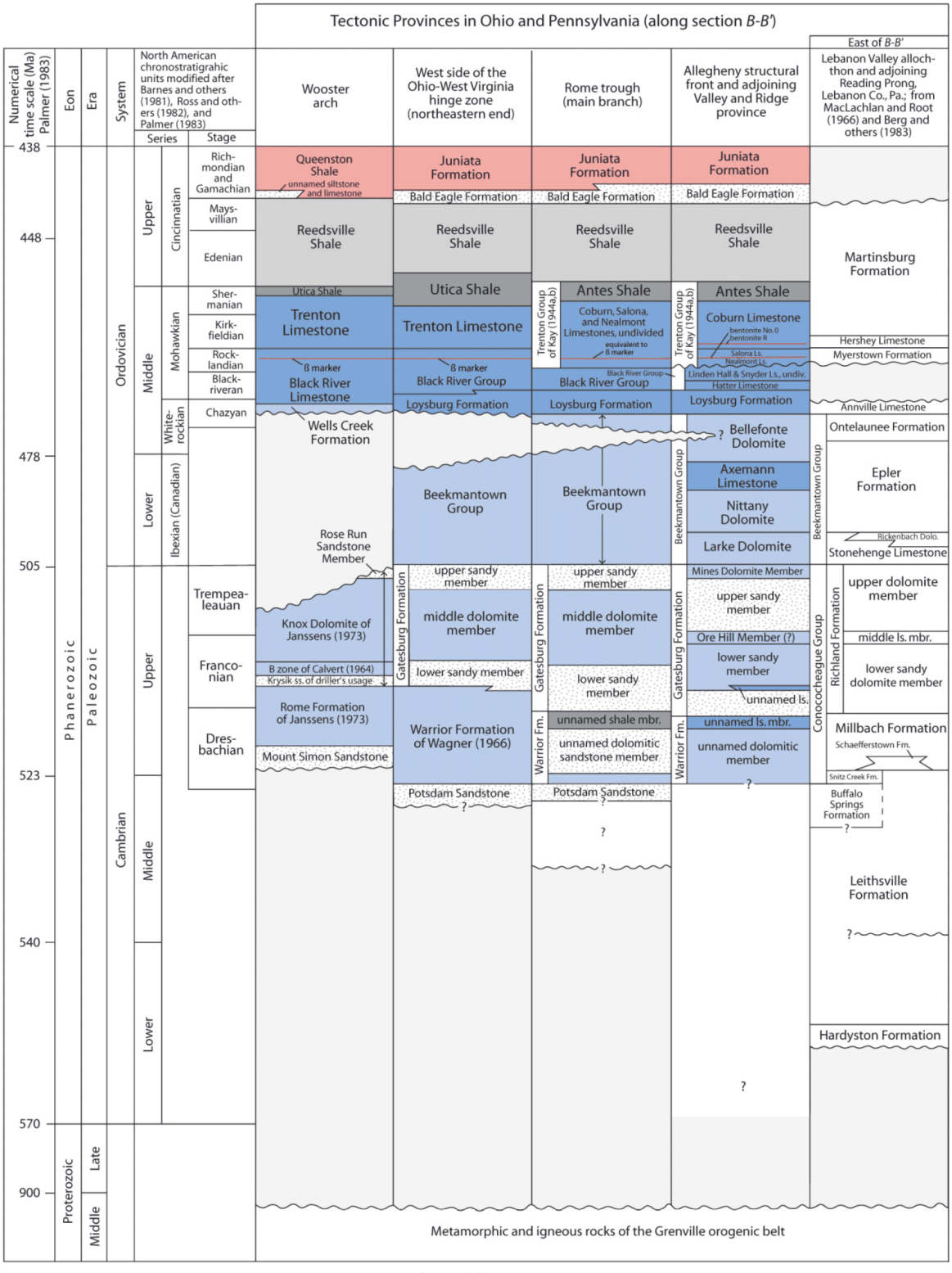


Figure 2.5-52— {Stratigraphic Correlation Chart of Appalachian Basin}



Reference: Crangle, 2002.

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