May 10, 2013

Comanche Peak Nuclear Power Plant, Units 3 & 4
COL Application

Part 2

FSAR Revision 3

Update Tracking Report

Revision 1

(Update Tracking Report – file 3/4)

File 2/4 Figures 2.5.2-201 through 2.5.2-220

File 3/4 Figures 2.5.2-221 through 2.5.2-240

File 4/4 Figures 2.5.2-241 through 2.5.2-259 and new figures 2.5.2-260 through 2.5.20277

CTS-01521

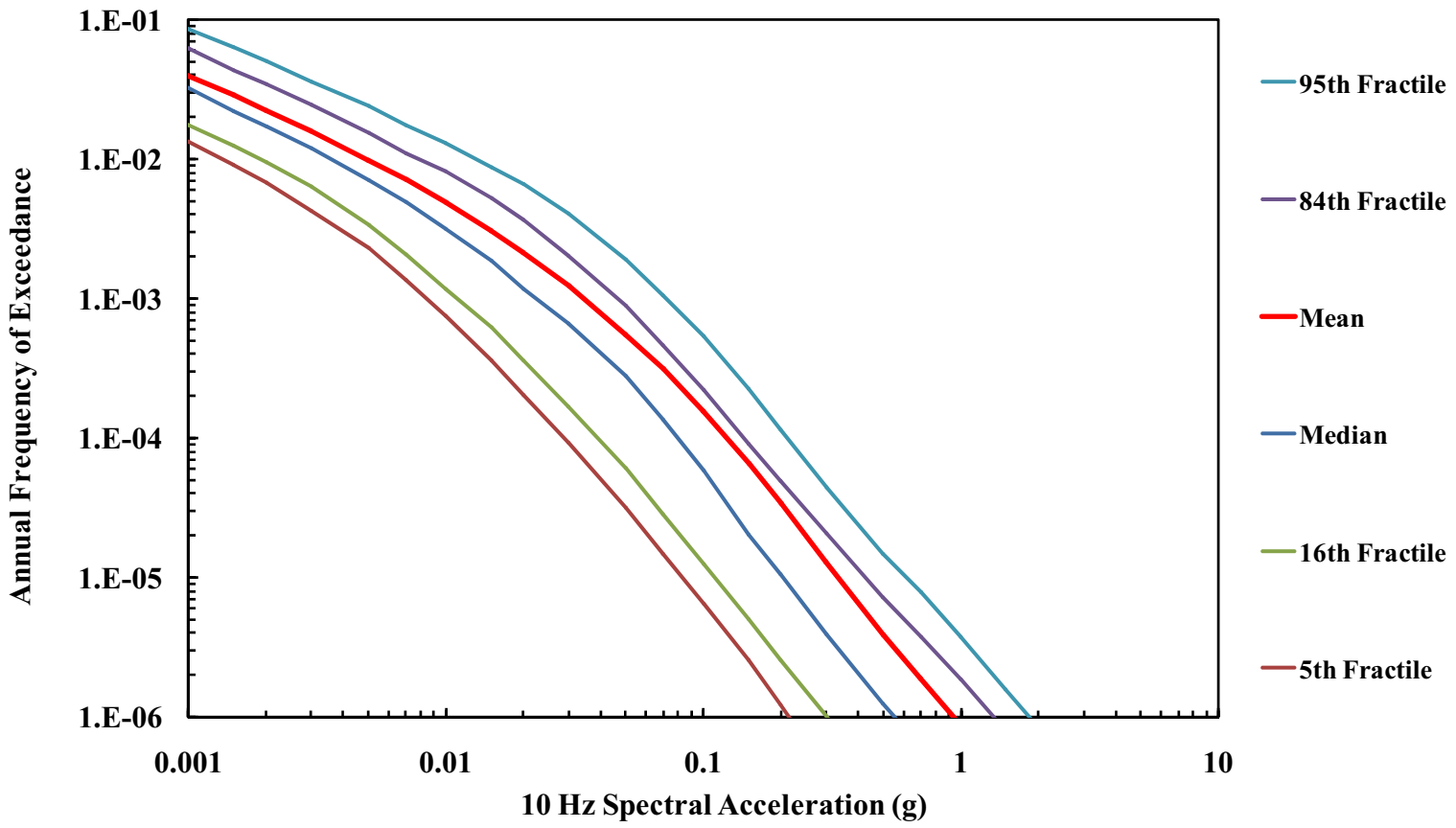

Figure 2.5.2-221 ~~0.5 Hz Rock Seismic Hazard Curves for all Sources and for New Madrid Faults Alone~~10 Hz Rock Total Mean and Median Hazard and Select Fractiles

CTS-01521

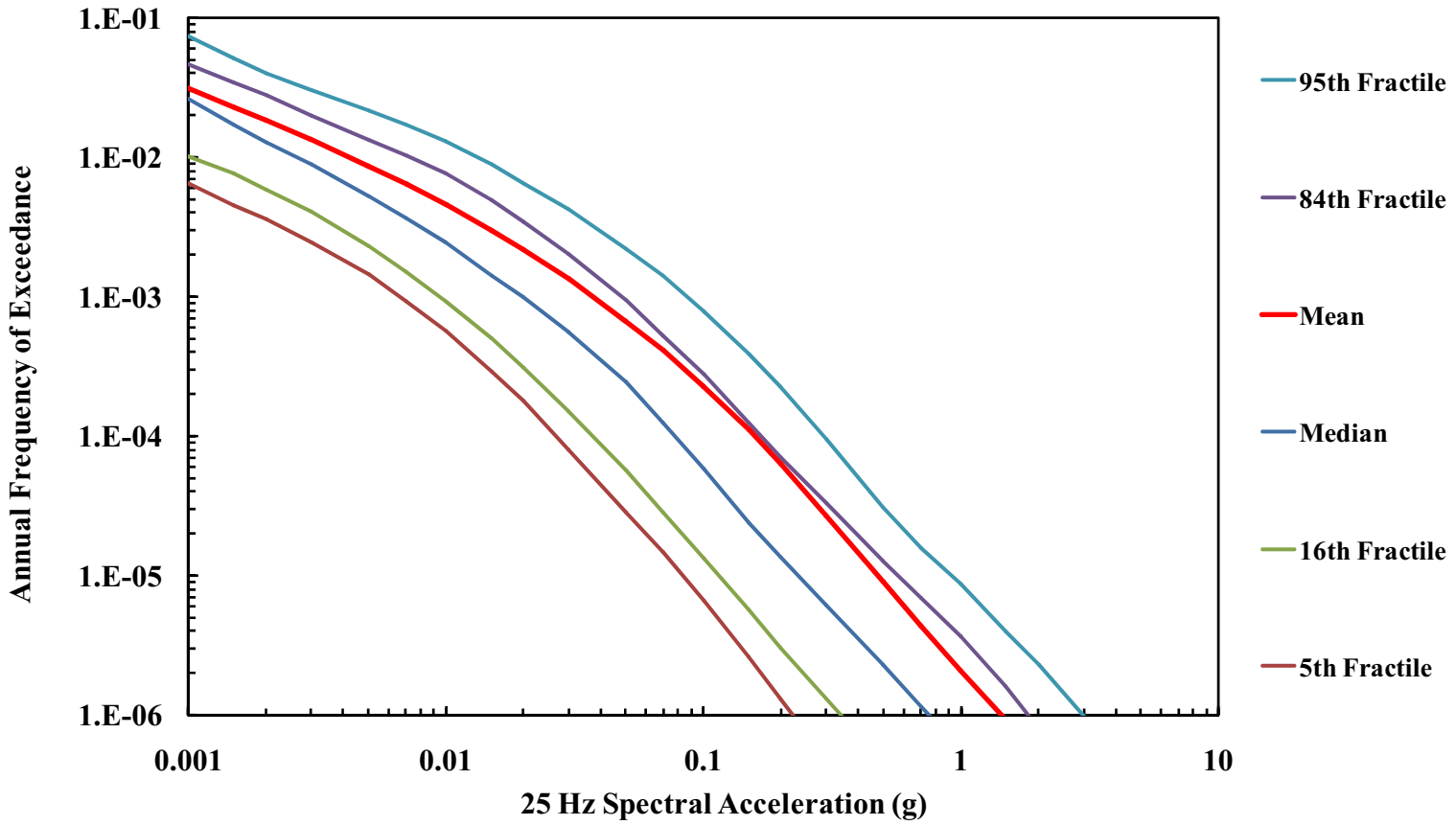

Figure 2.5.2-222 ~~Mean and Median Rock UHRS for 10^{-4} and 10^{-5} Annual Frequencies of Exceedance~~25 Hz Rock Total Mean and Median Hazard and Select Fractiles

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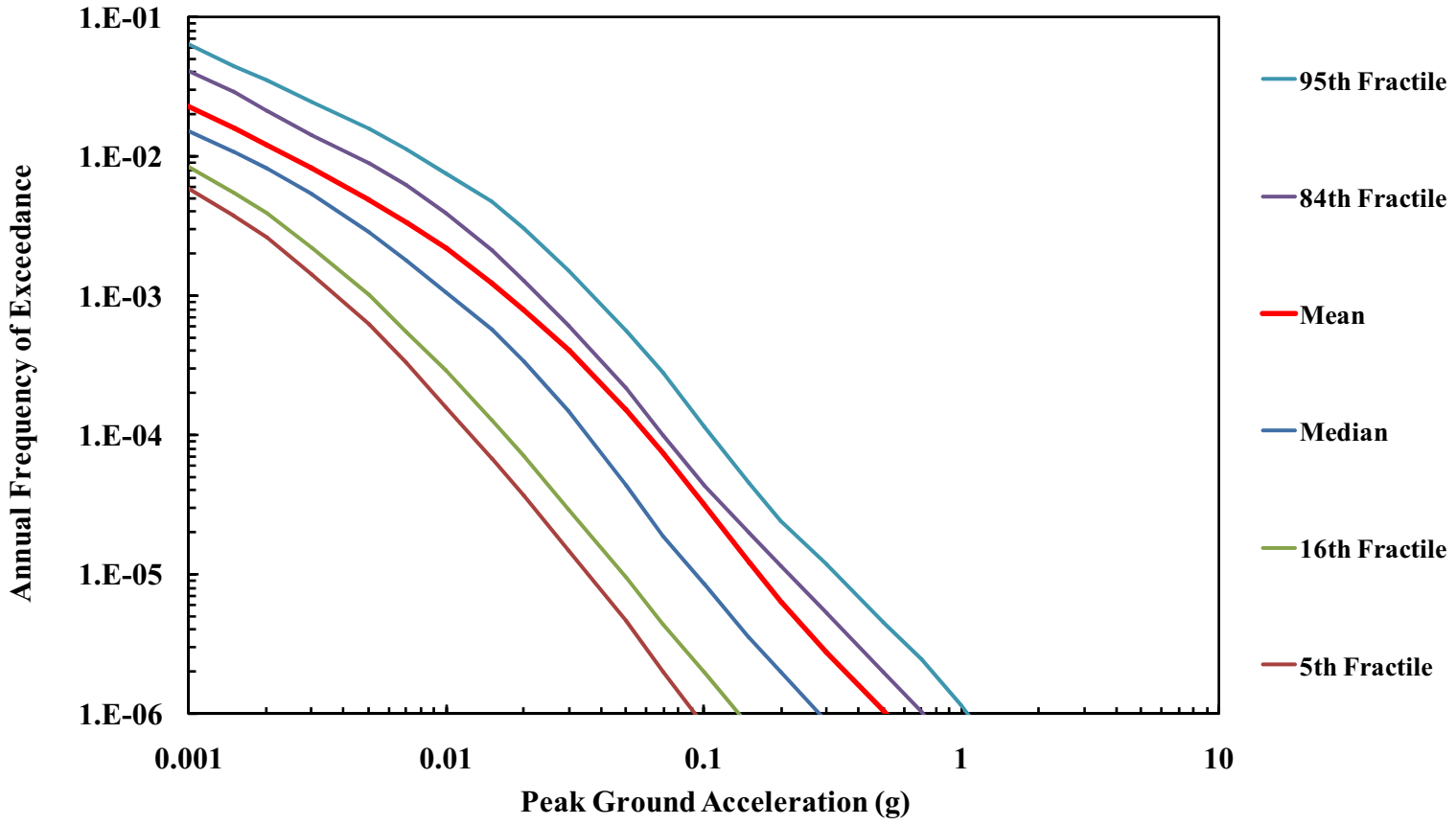

Figure 2.5.2-223 ~~Deaggregation of 10^{-4} Rock Hazard for 5 and 10 Hz~~100 Hz (PGA) Rock Total Mean and Median Hazard and Select Fractiles

CTS-01521

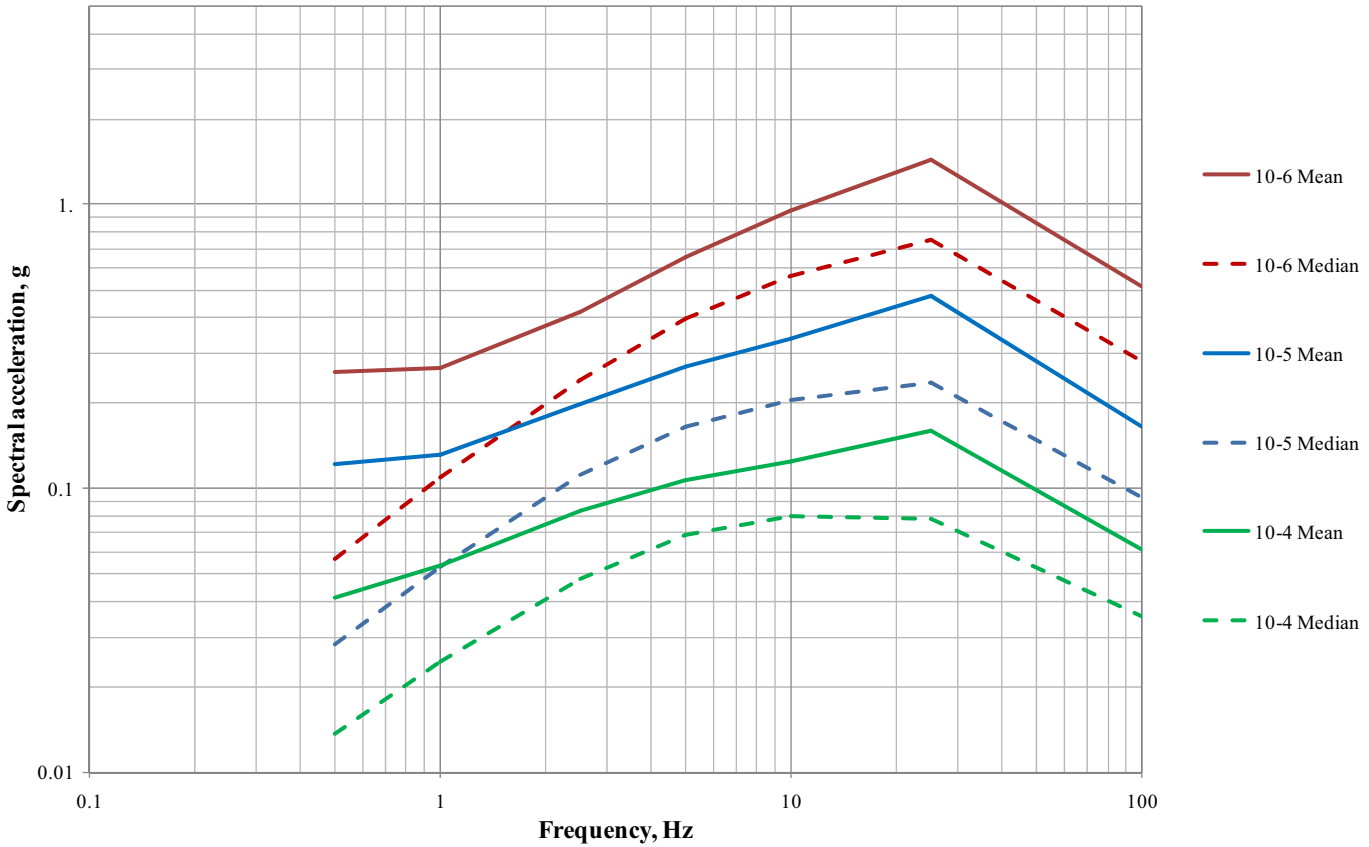

Figure 2.5.2-224 ~~Deaggregation of 10^{-4} Rock Hazard for 1 and 2.5 Hz~~Mean and Median UHRS for 10^{-4}, 10^{-5}, and 10^{-6}

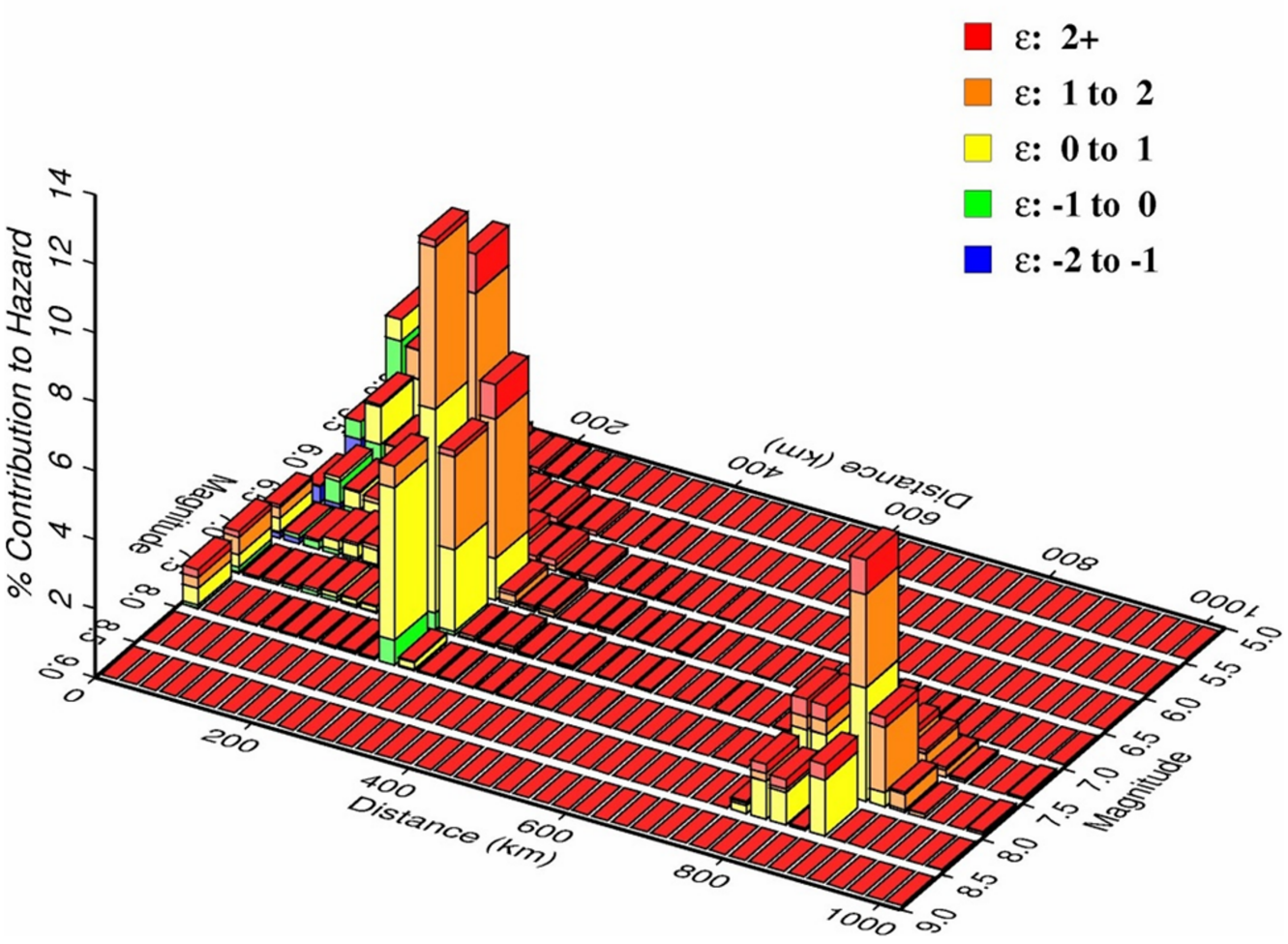

Figure 2.5.2-225 Deaggregation of 10^{-5} $^{-4}$ Rock Hazard for 5 and 10 Hz

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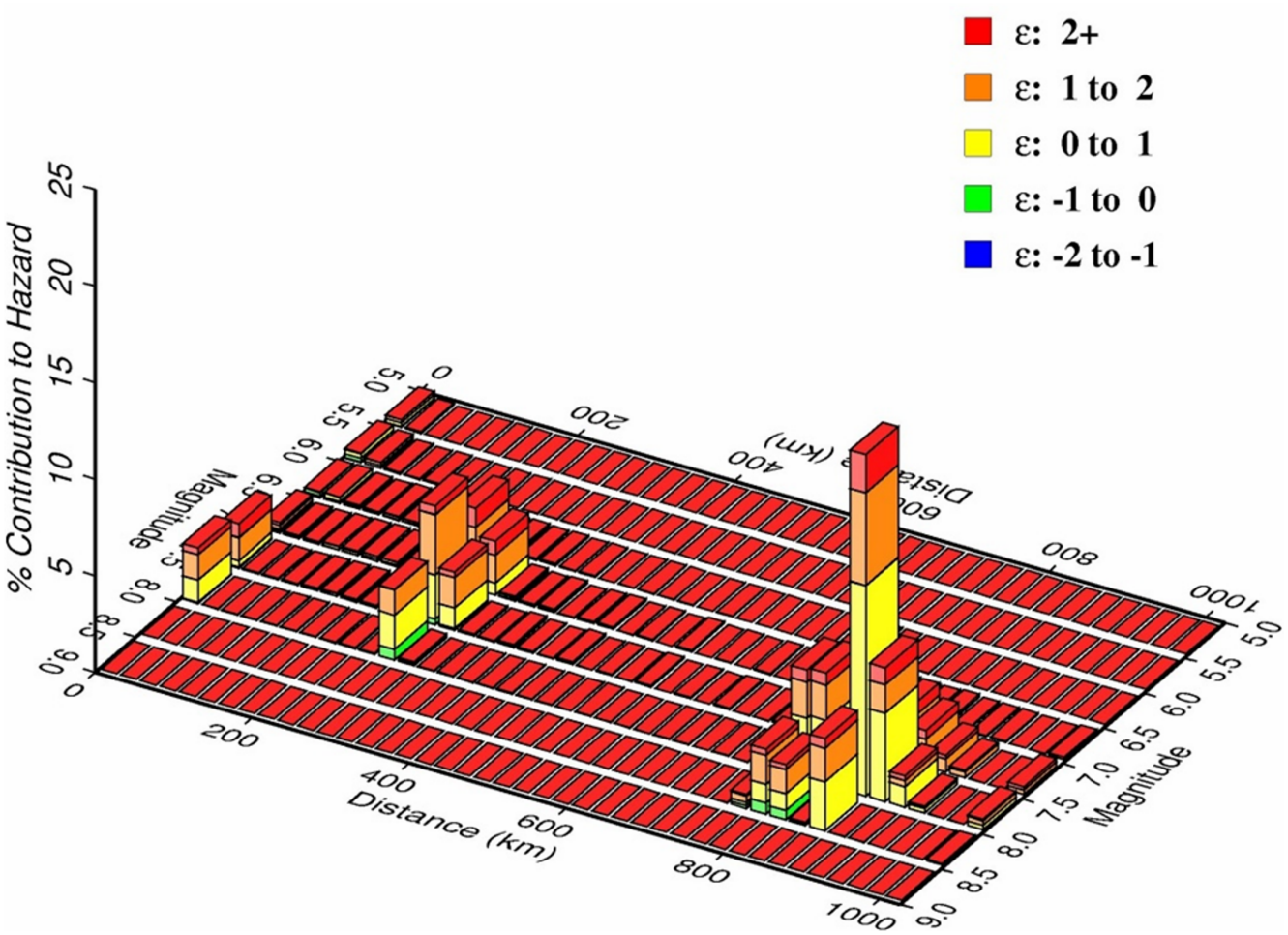

Figure 2.5.2-226 Deaggregation of $10^{-\cancel{5}4}$ Rock Hazard for 1 and 2.5 Hz

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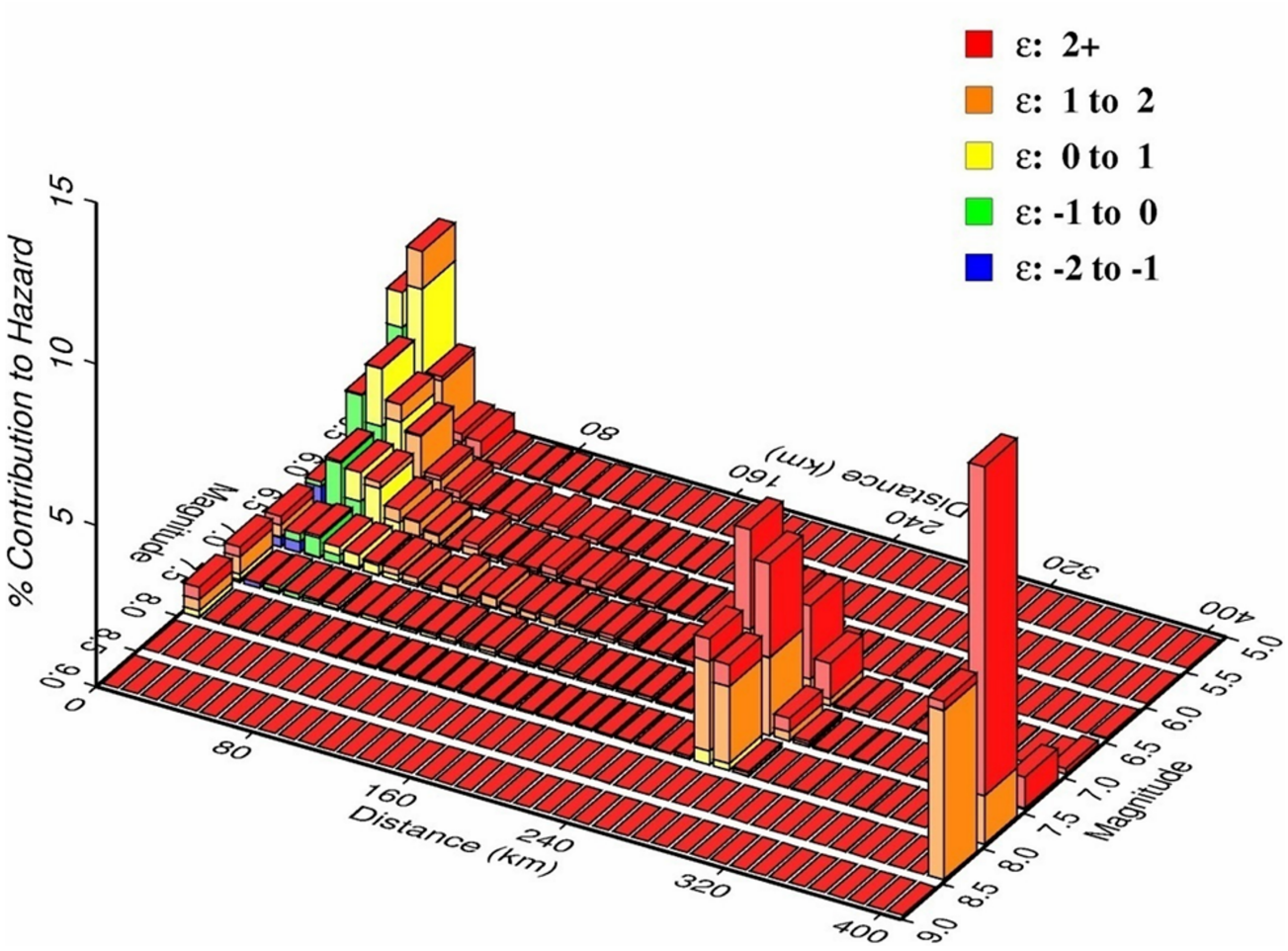

Figure 2.5.2-227 Deaggregation of 10^{-6}5 Rock Hazard for 5 and 10 Hz

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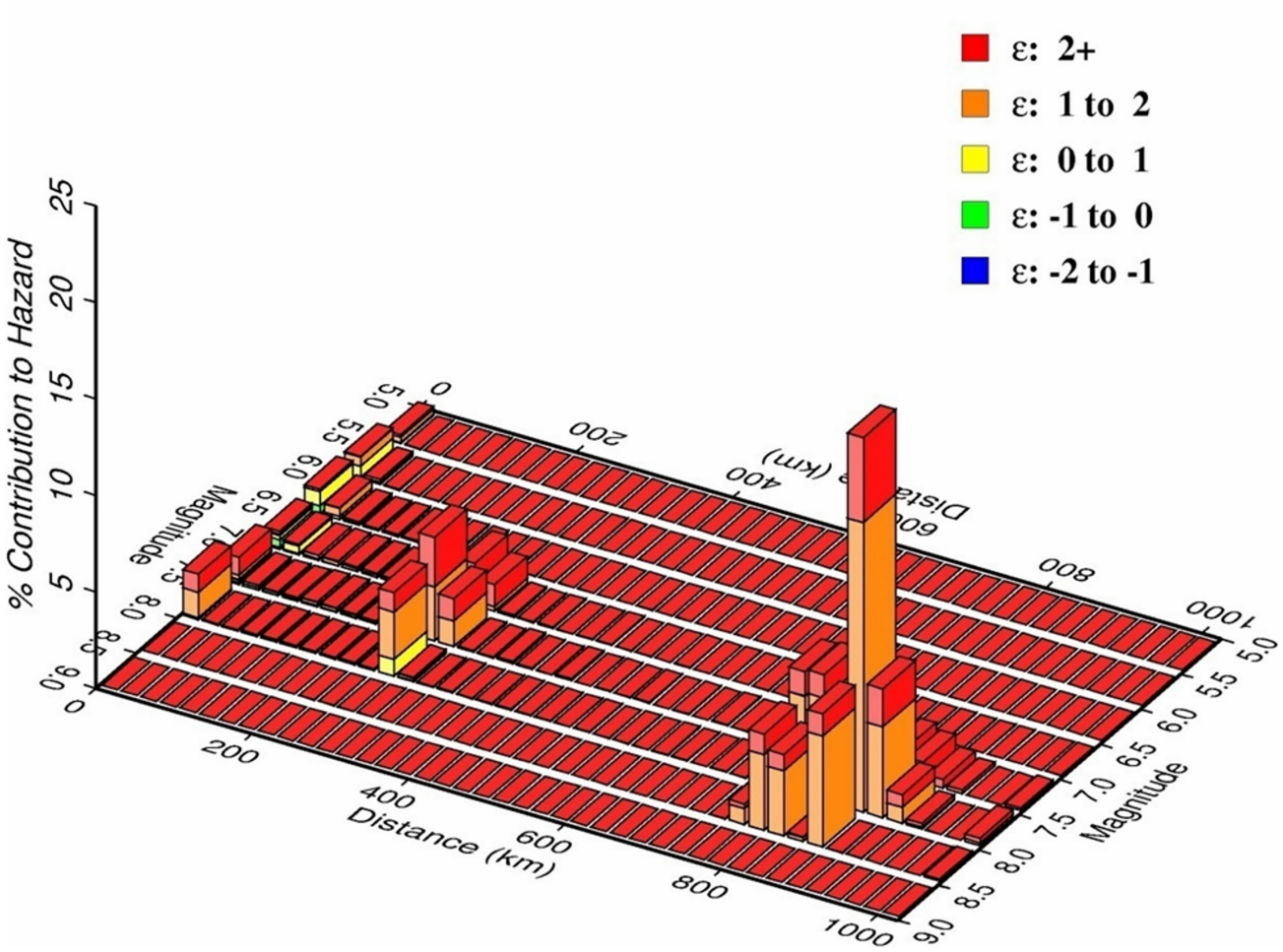

Figure 2.5.2-228 Deaggregation of 10^{-6} 5 Rock Hazard for 1 and 2.5 Hz

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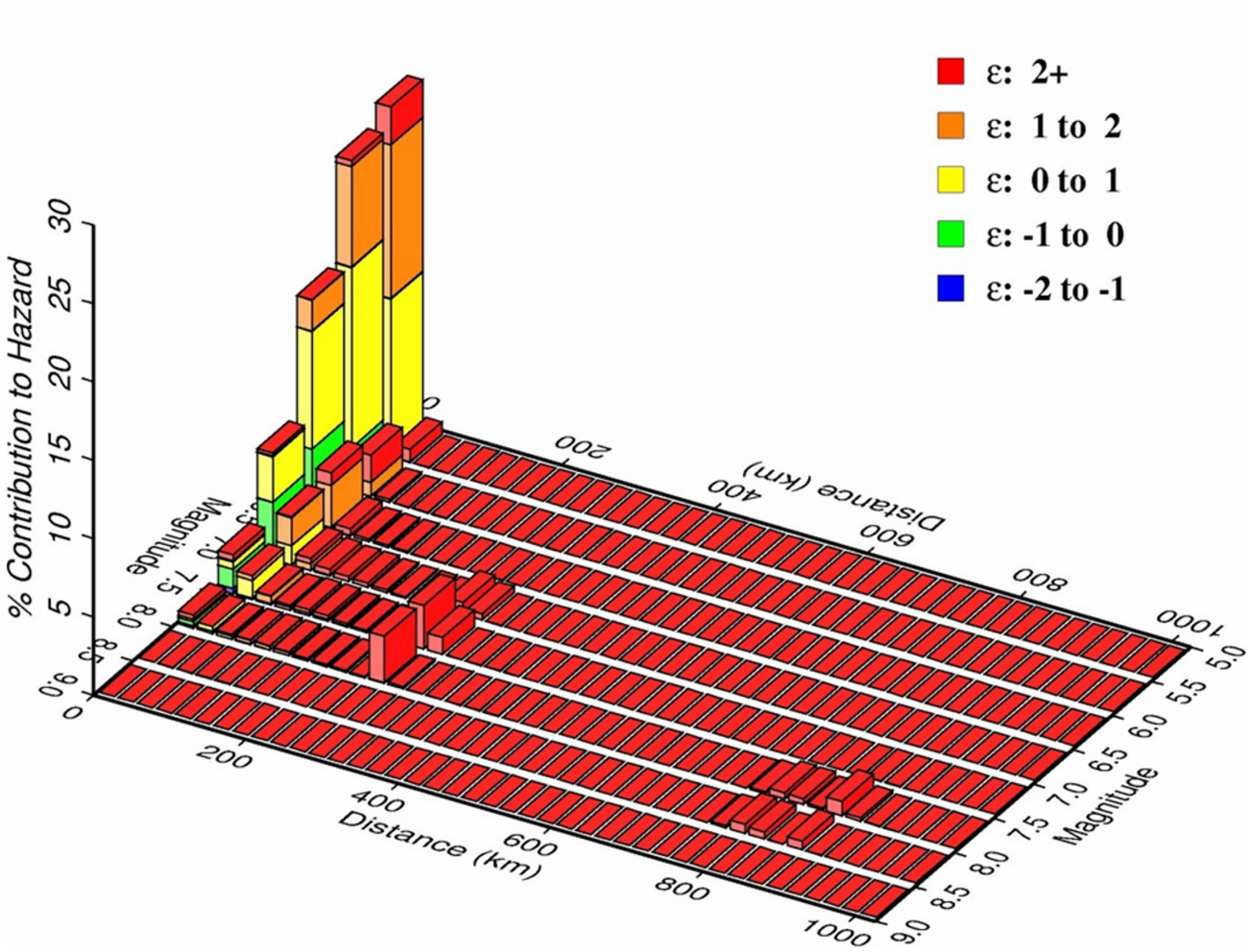

Figure 2.5.2-229 ~~Smooth 10^{-4} Rock UHRS for High and Low Frequencies~~ Deaggregation of 10^{-6} Rock Hazard for 5 and 10 Hz

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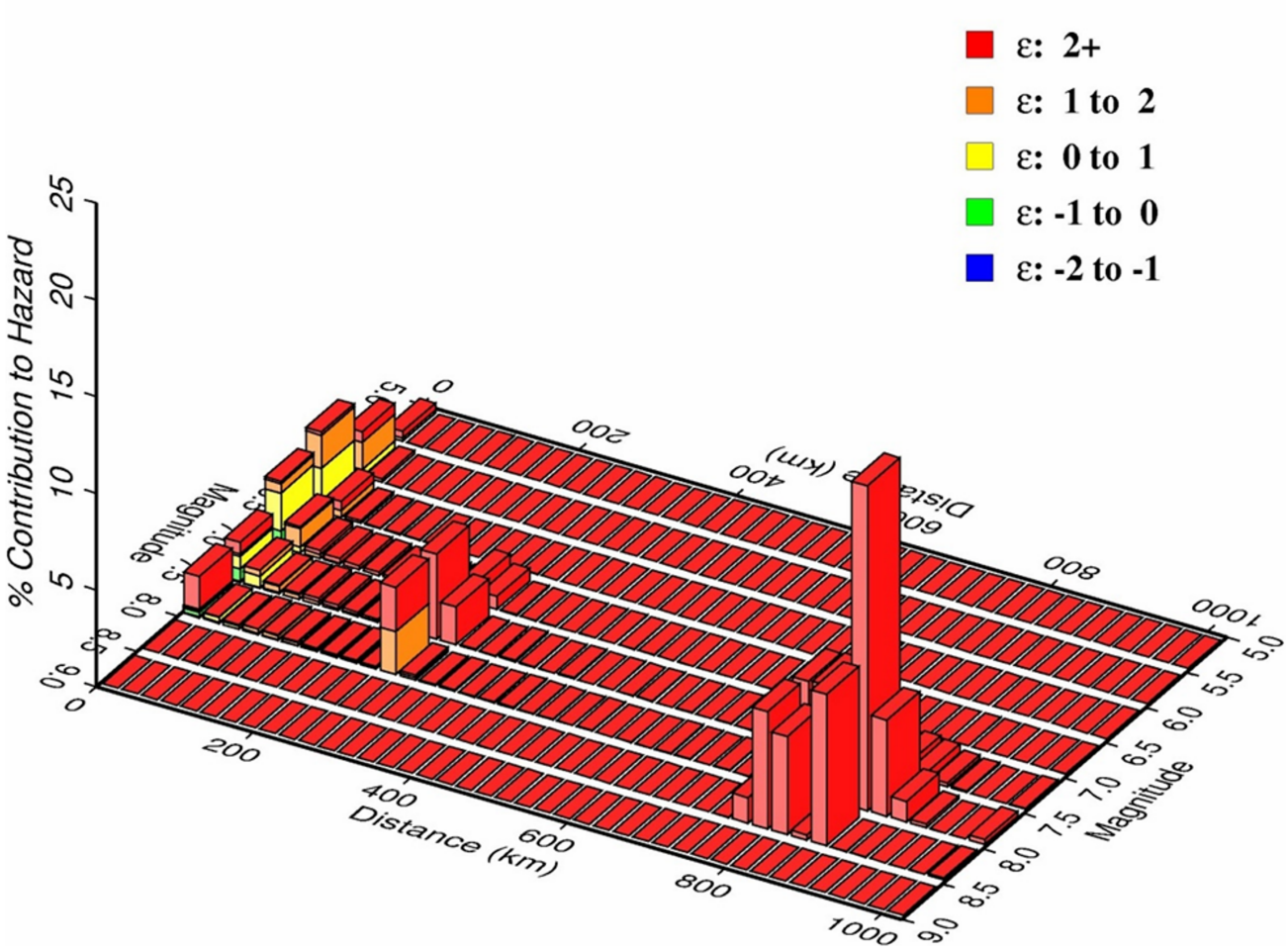

Figure 2.5.2-230 ~~Smooth 10^{-5} Rock UHRS for High and Low Frequencies~~ Deaggregation of 10^{-6} Rock Hazard for 1 and 2.5 Hz

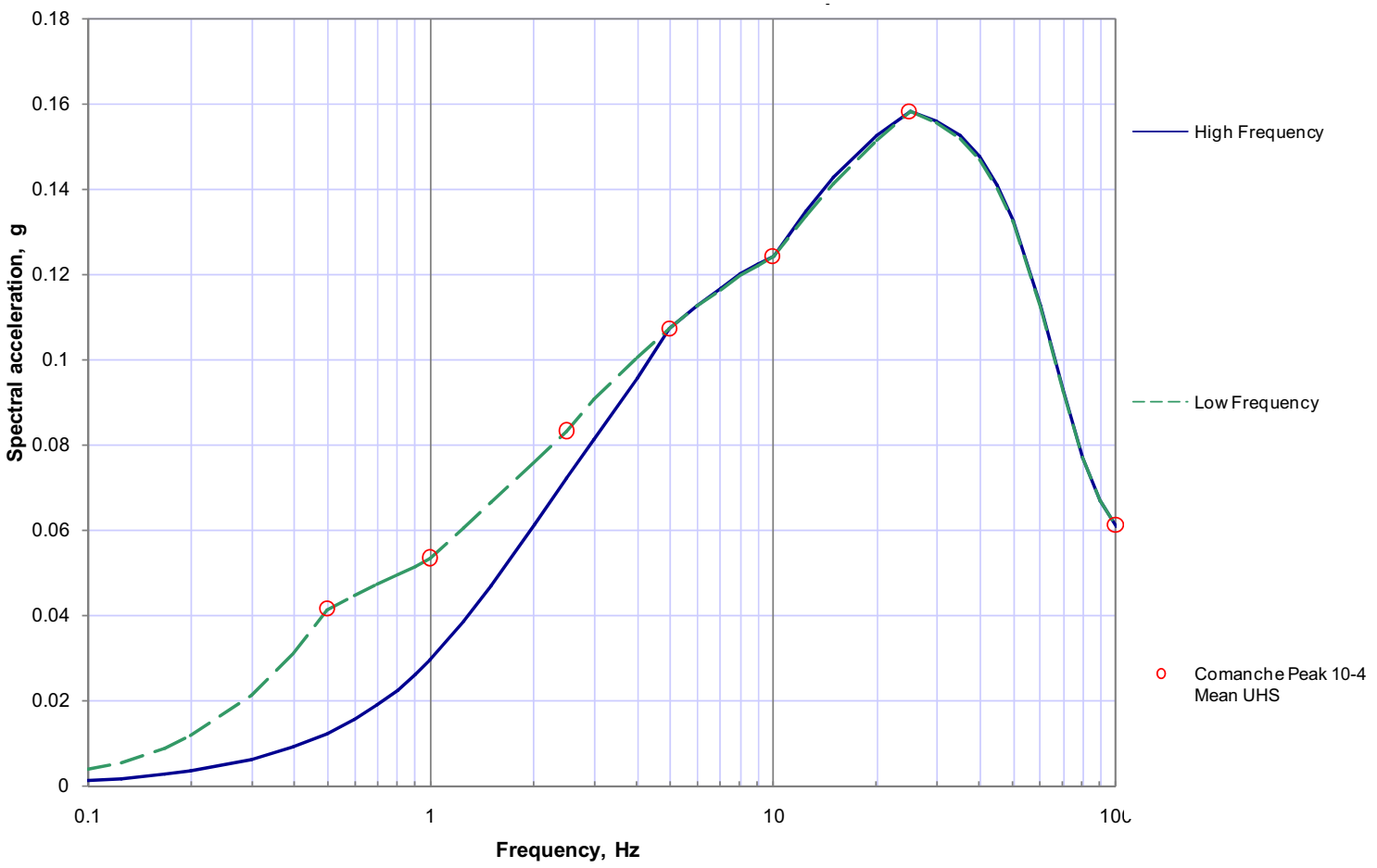

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Figure 2.5.2-231 Smooth 10^{-6} 4 Rock UHRS for High and Low Frequencies

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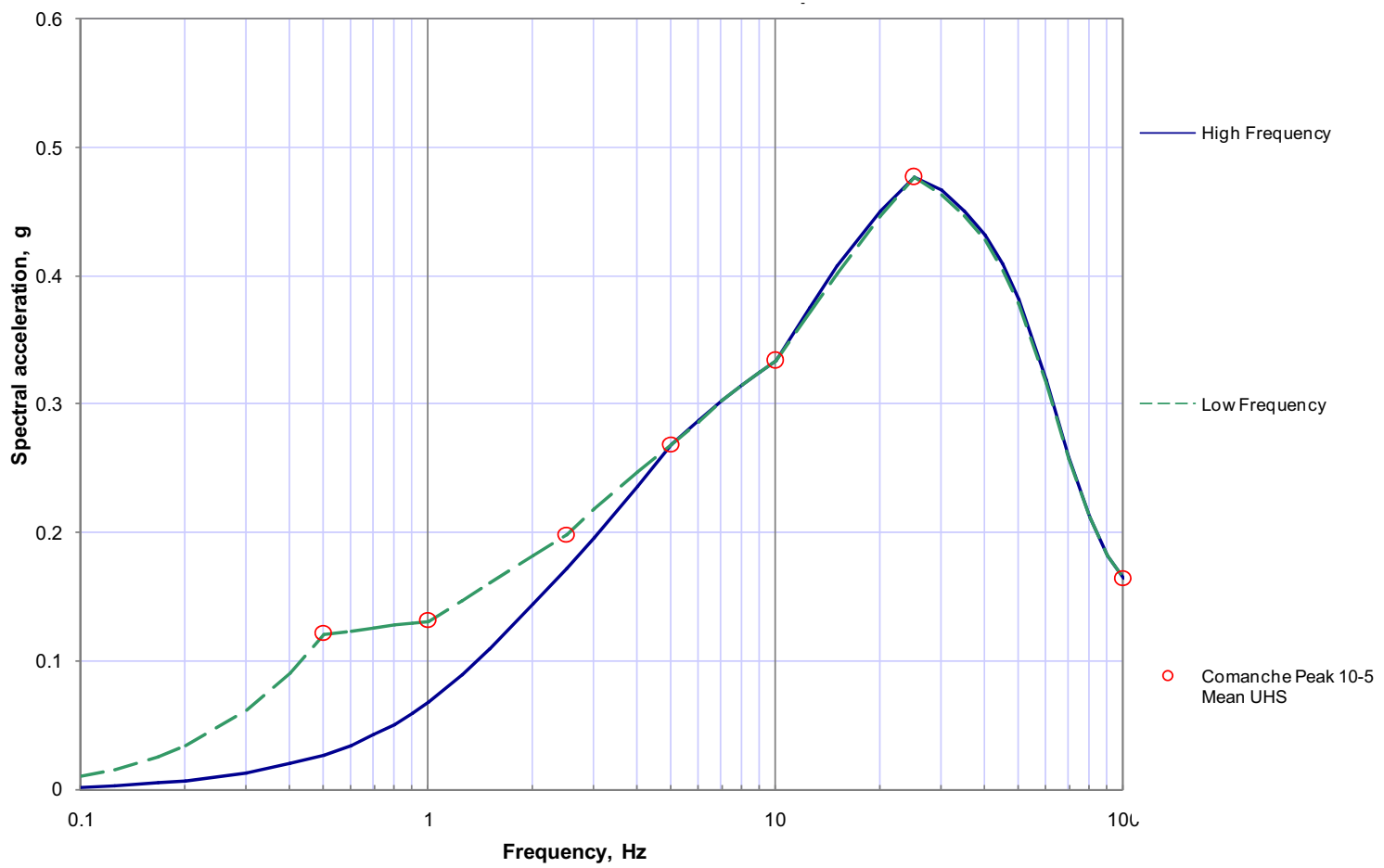

Figure 2.5.2-232 ~~Degradation Curves for Rock Materials:~~
~~(a) G/Gmax vs. strain; (b) damping in shear vs. strain~~Smooth 10^{-5} Rock UHRS for High and Low Frequencies

CTS-01521

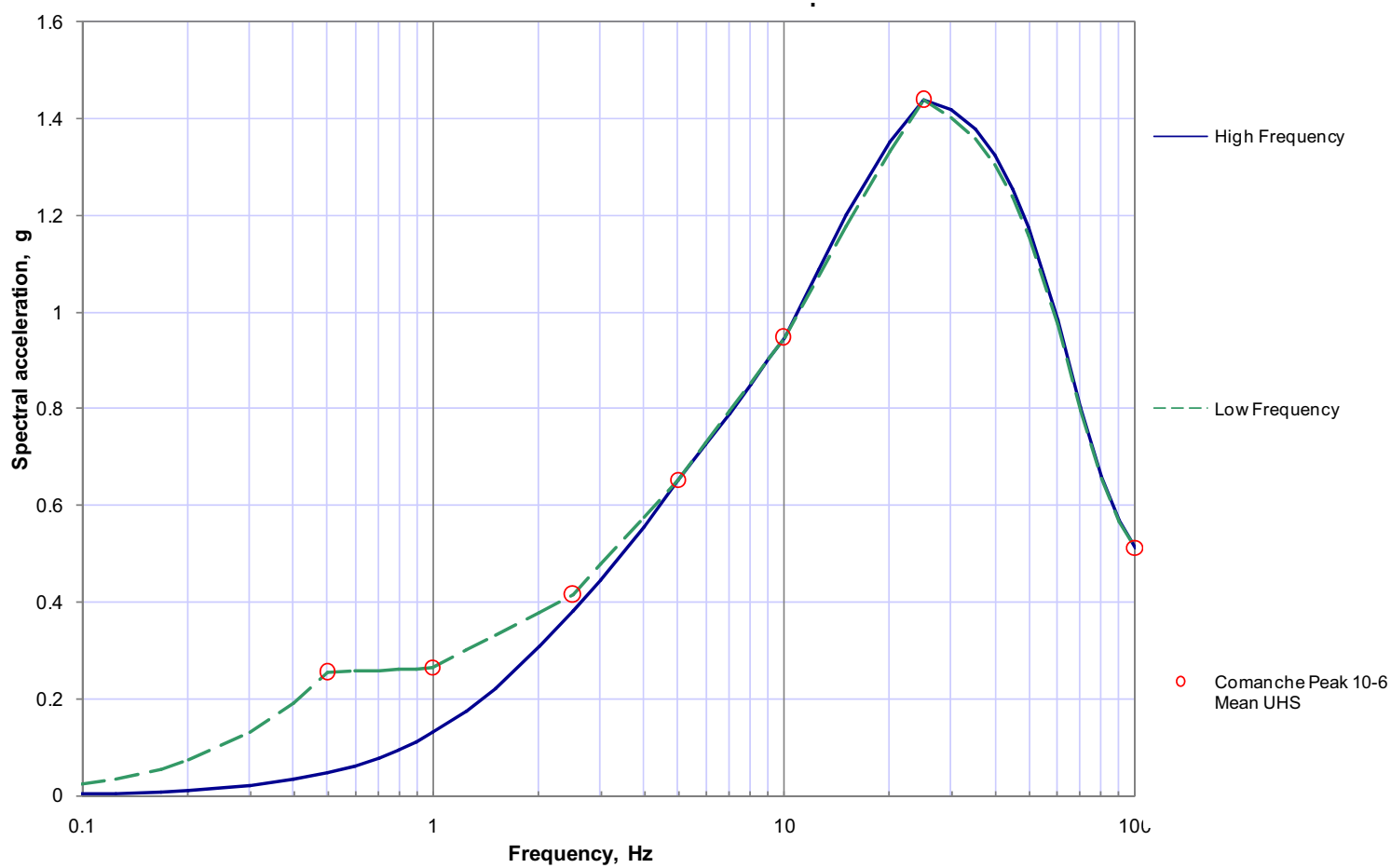

Figure 2.5.2-233 ~~Median Amplification Factor and Logarithmic Standard Deviation of Amplication Factor for GMRS (Elevation 782'), Using Broad Banded (BB) Input Motion~~Smooth 10^{-6} Rock UHRS for High and Low Frequencies

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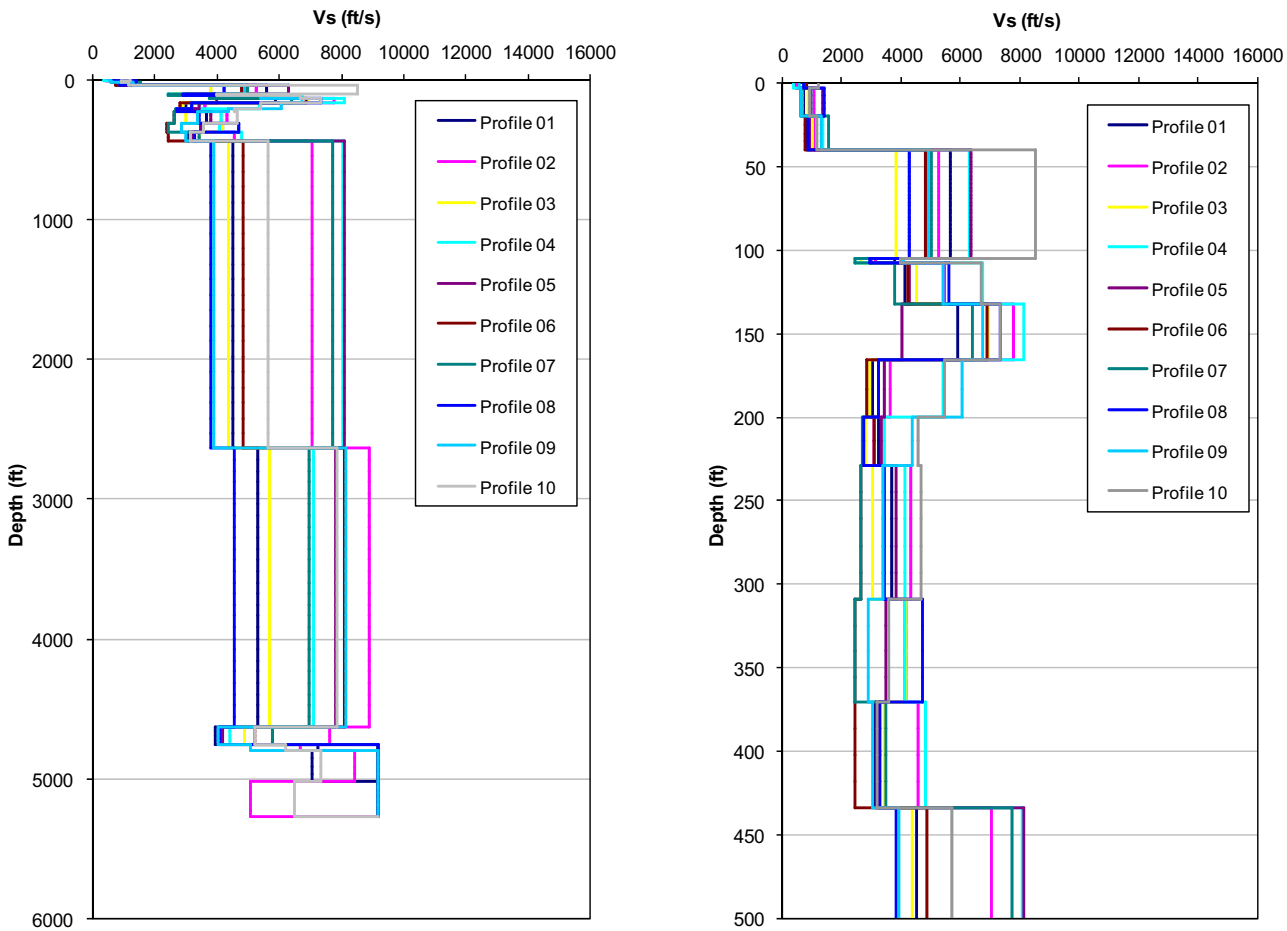


Figure 2.5.2-234 ~~Comanche Peak Horizontal GMRS Compared to DCD Spectrum~~Velocity versus Depth for the First 10 Synthetic Profiles Generated for the FIRS3 Site Column

CTS-01521

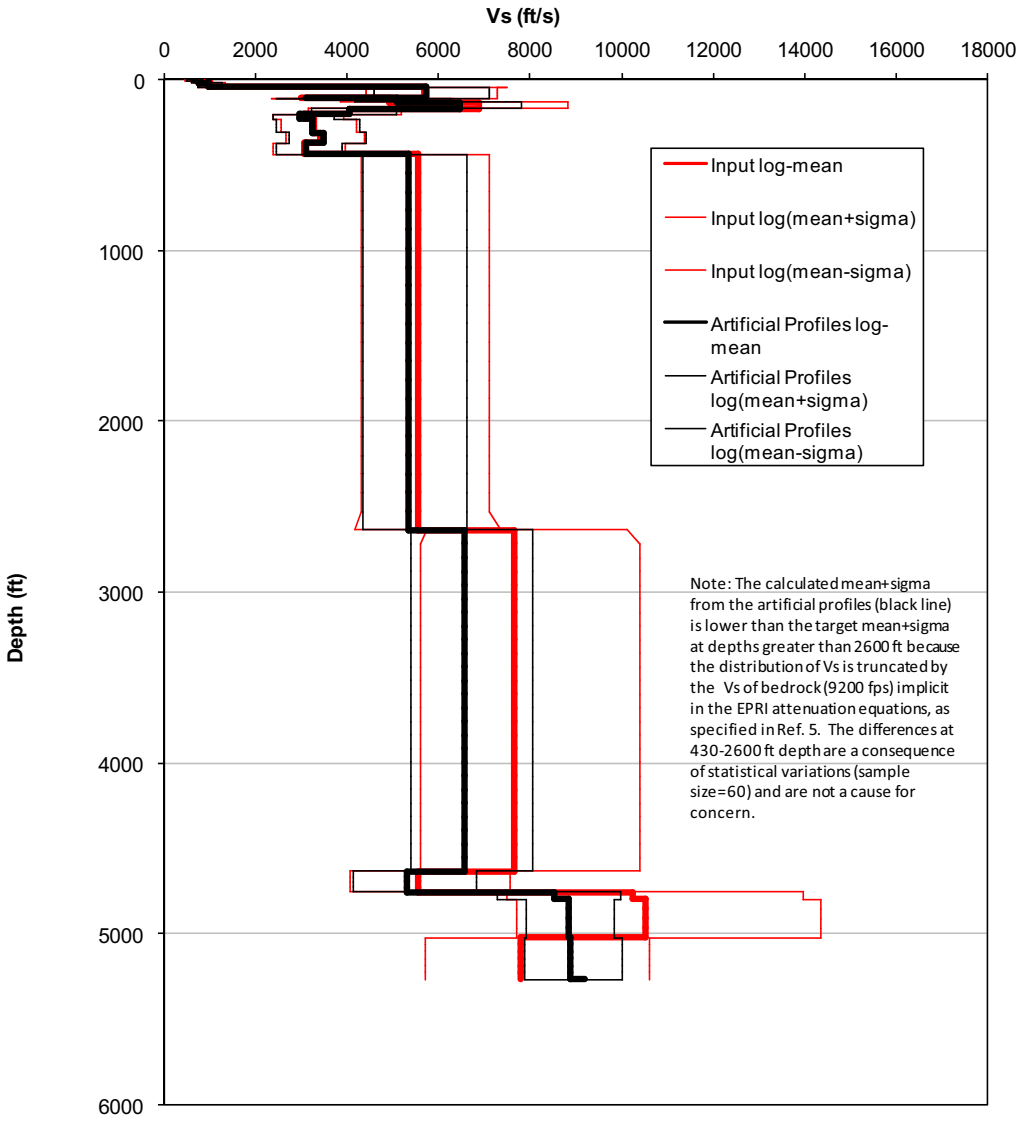
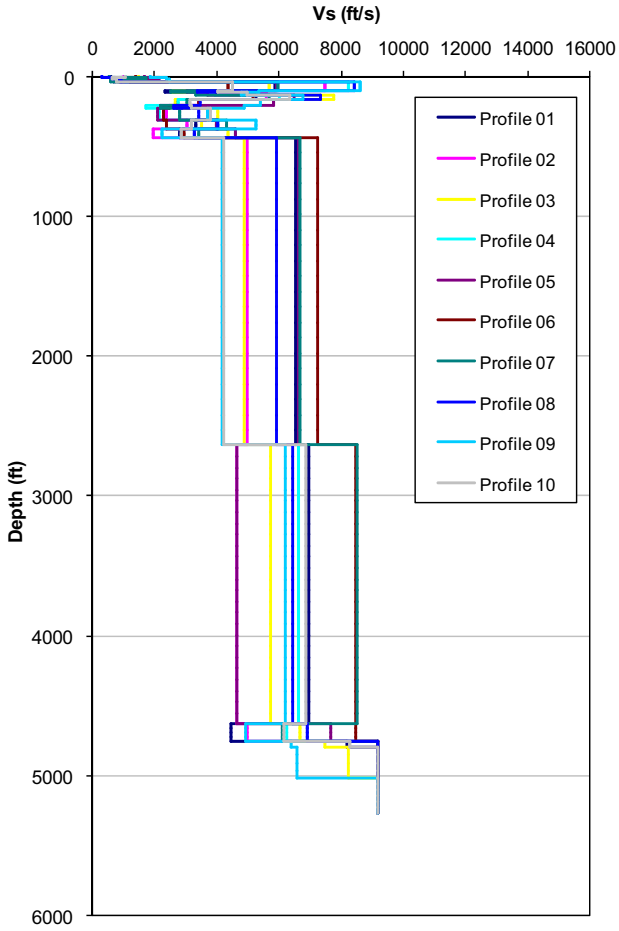


Figure 2.5.2-235 ~~Median Amplification Factor and Logarithmic Standard Deviation of Amplication Factor for FIRS2, Using Broad-Banded (BB) Input Motion~~Summary of Statistics of Synthetic Profiles Generated for the FIRS3 Site Column



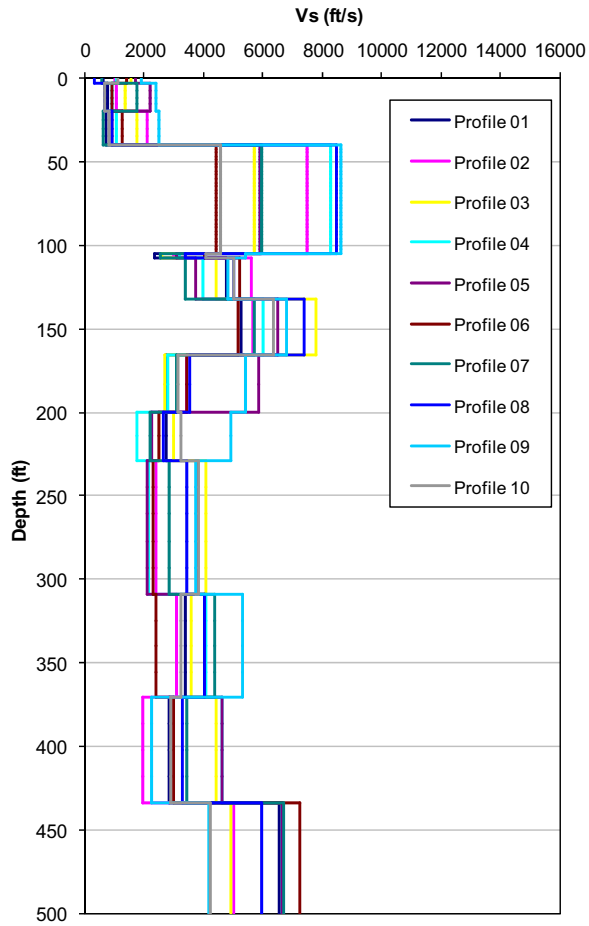


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Figure 2.5.2-236 ~~**Median Amplification Factor and Logarithmic Standard Deviation of Amplication Factor for FIRS3, Using Broad-Banded (BB) Input Motion**~~**Velocity versus Depth for the First 10 Synthetic Profiles Generated for the FIRS3_COV50 Site Column**

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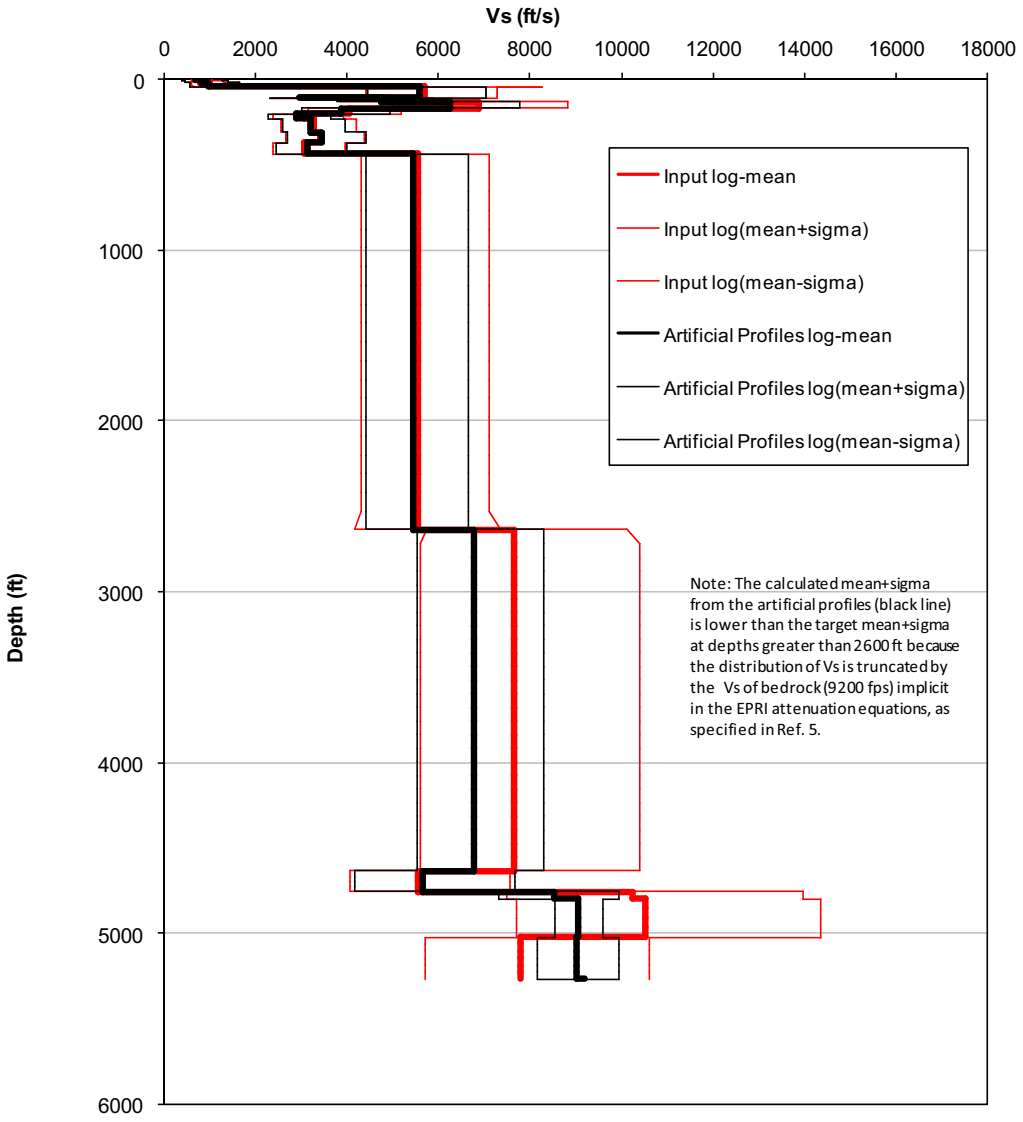

Figure 2.5.2-237 ~~Median Amplification Factor and Logarithmic Standard Deviation of Amplication Factor for FIRS4, Using Broad Banded (BB) Input Motion~~Summary of Statistics of Synthetic Profiles Generated for the FIRS3_COV50 Site Column

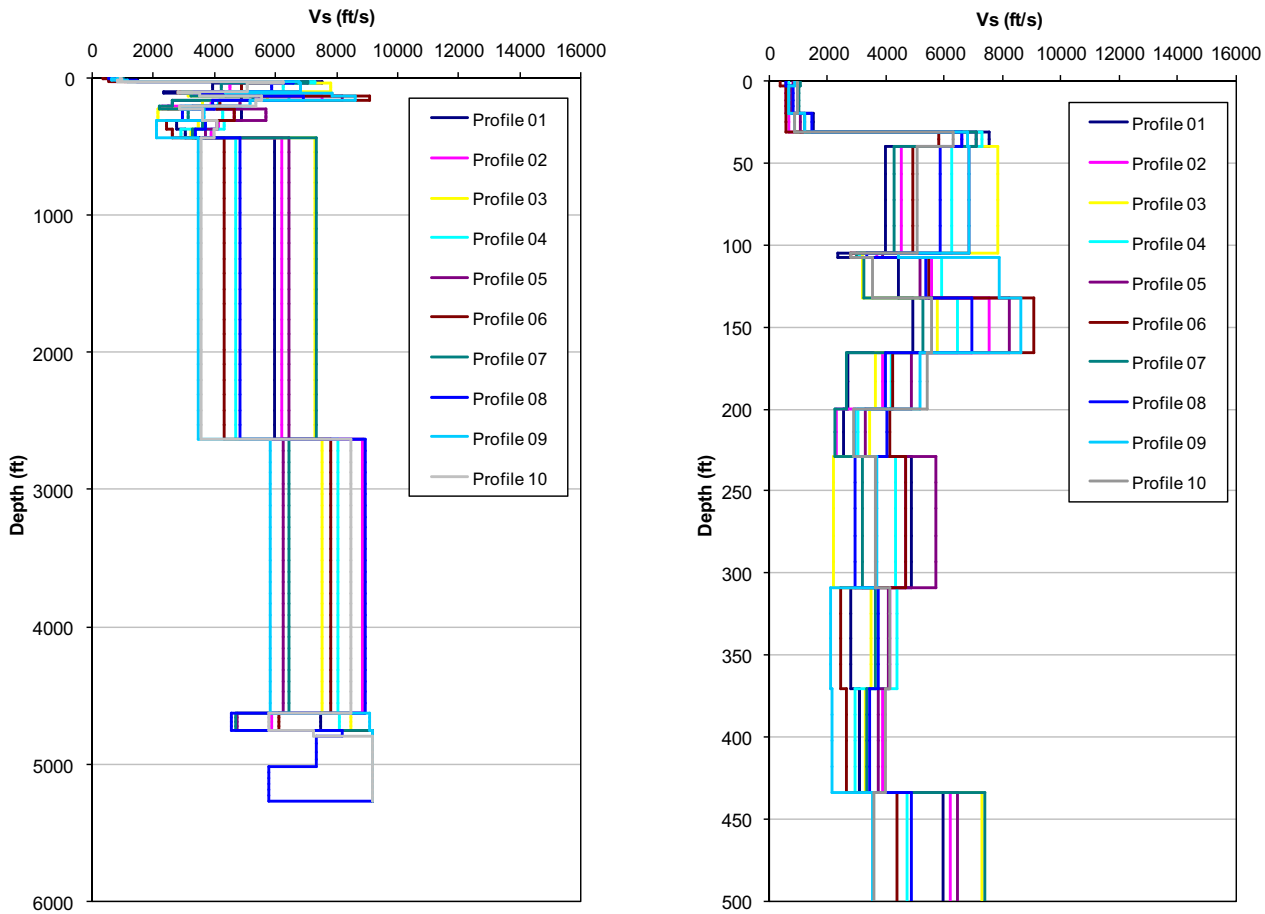

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Figure 2.5.2-238 ~~Median Amplification Factor and Logarithmic Standard Deviation of Amplication Factor for FIRS4_CoV50, Using Broad-Banded (BB) Input Motion~~Velocity versus Depth for the First 10 Synthetic Profiles Generated for the FIRS4_SCSR Site Column

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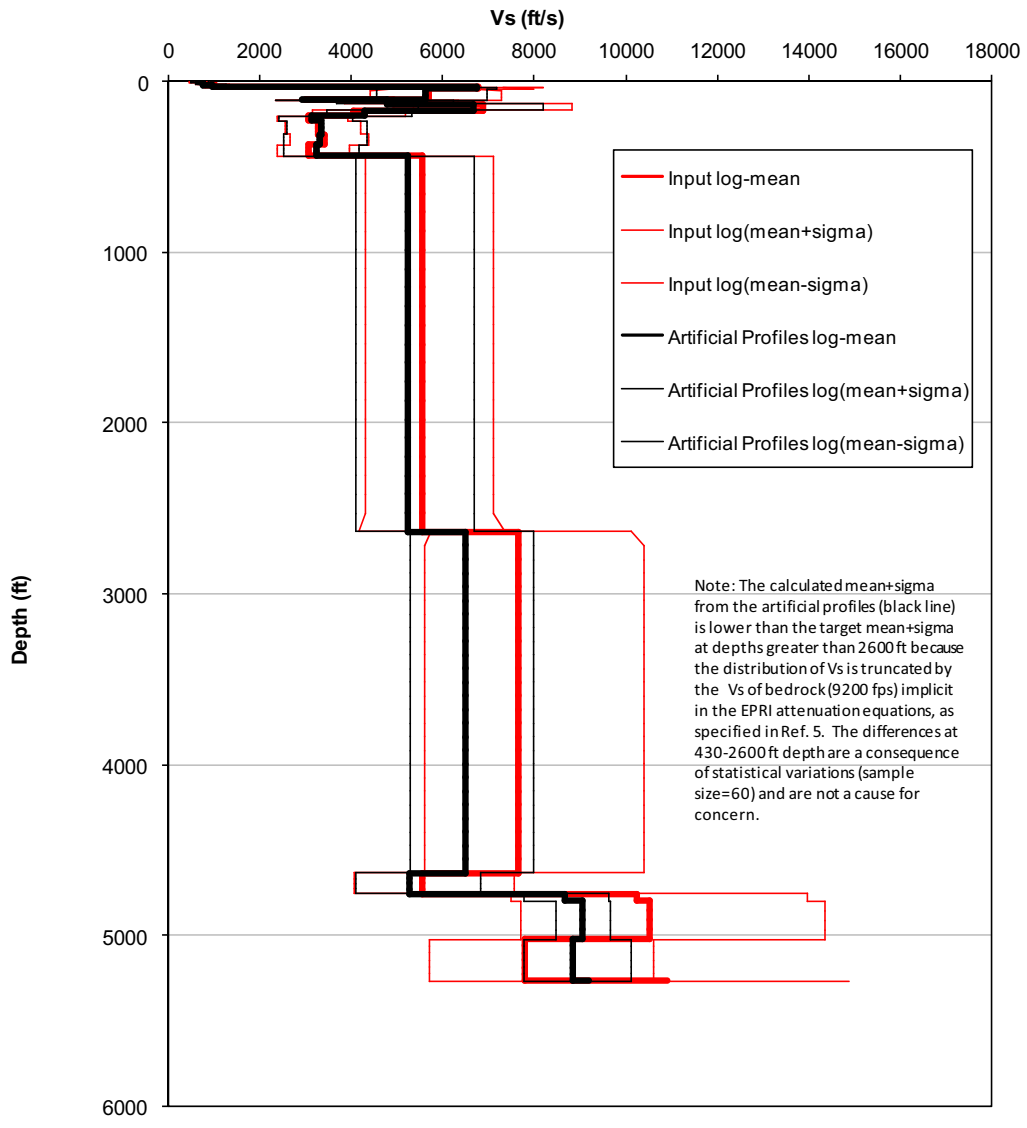
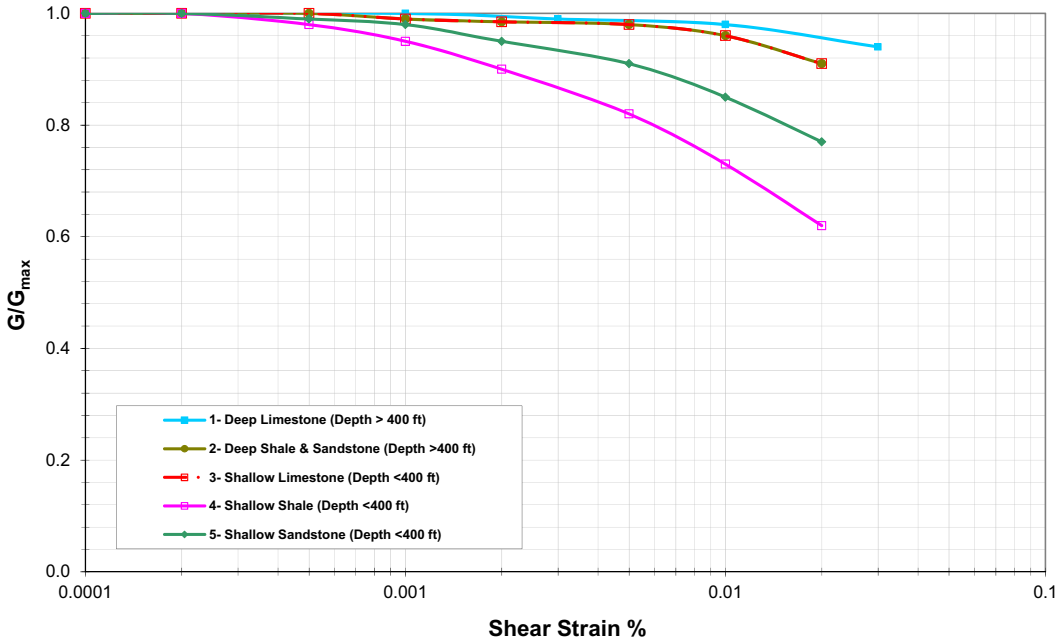


Figure 2.5.2-239 ~~Comanche Peak Horizontal FIRS Compared to DCD Spectrum~~Summary of Statistics of Synthetic Profiles Generated for the FIRS4_SCSR Site Column

CTS-01521



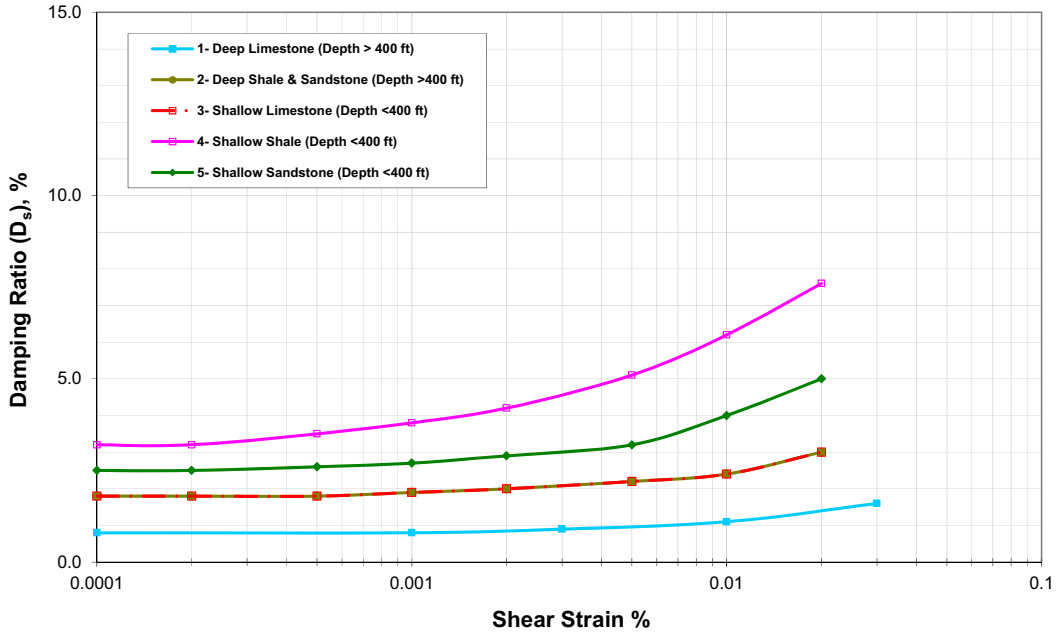


Figure 2.5.2-240 ~~Graph of Velocity vs. Depth for the First 10 Synthetic Profiles Generated for the GMRS/FIRS1 Site Column~~G/Gmax and Damping Ratio versus Strain for Rock Materials