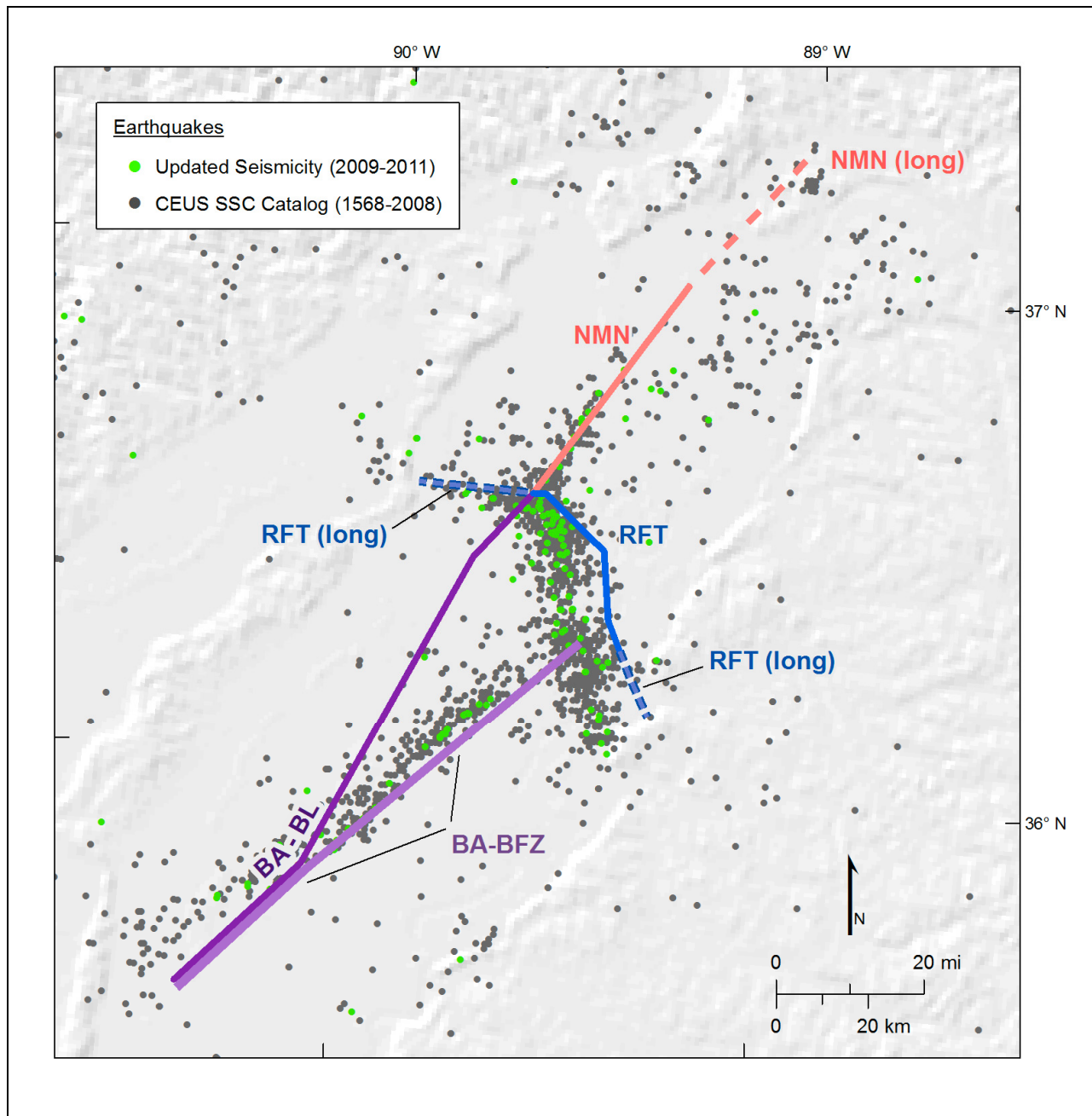
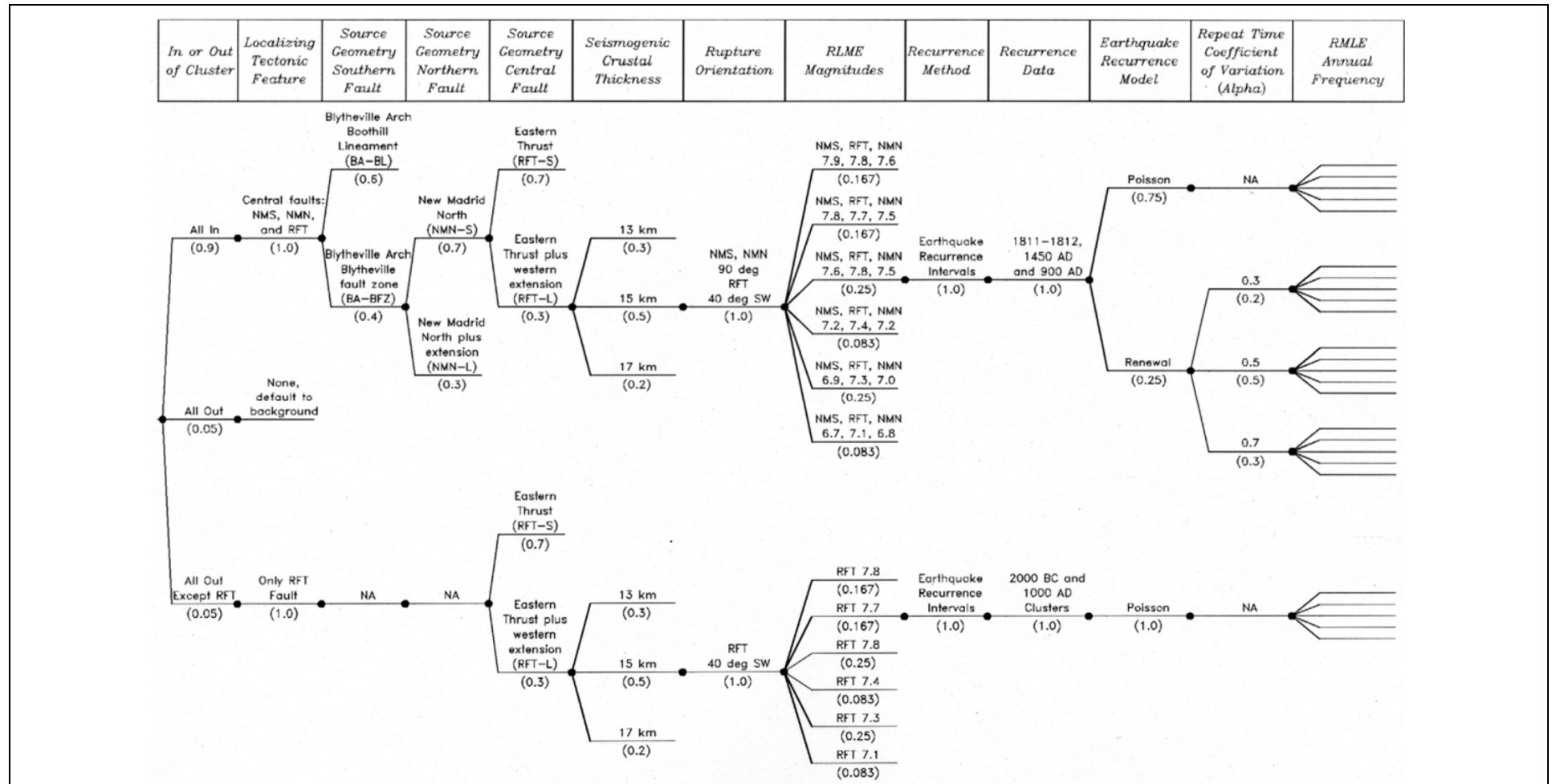


NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4**Figure 2.5.2-226 Elements of the New Madrid Fault System (NMFS)  
RLME (Modified After Figure 6.1.5-4 of CEUS SSC  
Report)**

NOTE: Individual fault segments are the New Madrid North fault (NMN), the Reelfoot thrust (RFT), the Blytheville arch (BA), the Bootheel Lineament (BL), and the Blytheville fault zone (BFZ). Seismicity includes mainshocks and dependent events of  $E[M] \geq 2.2$ . Fault geometries modified after [Reference 2.5-223](#).

NAPS COL 2.0-27-A Figure 2.5.2-227 CEUS SSC Logic Tree Showing the Full Characterization of the NMFS RLME Source, Modified After  
NAPS ESP VAR 2.0-4 Figure H-5.5-1 of the CEUS SSC Report



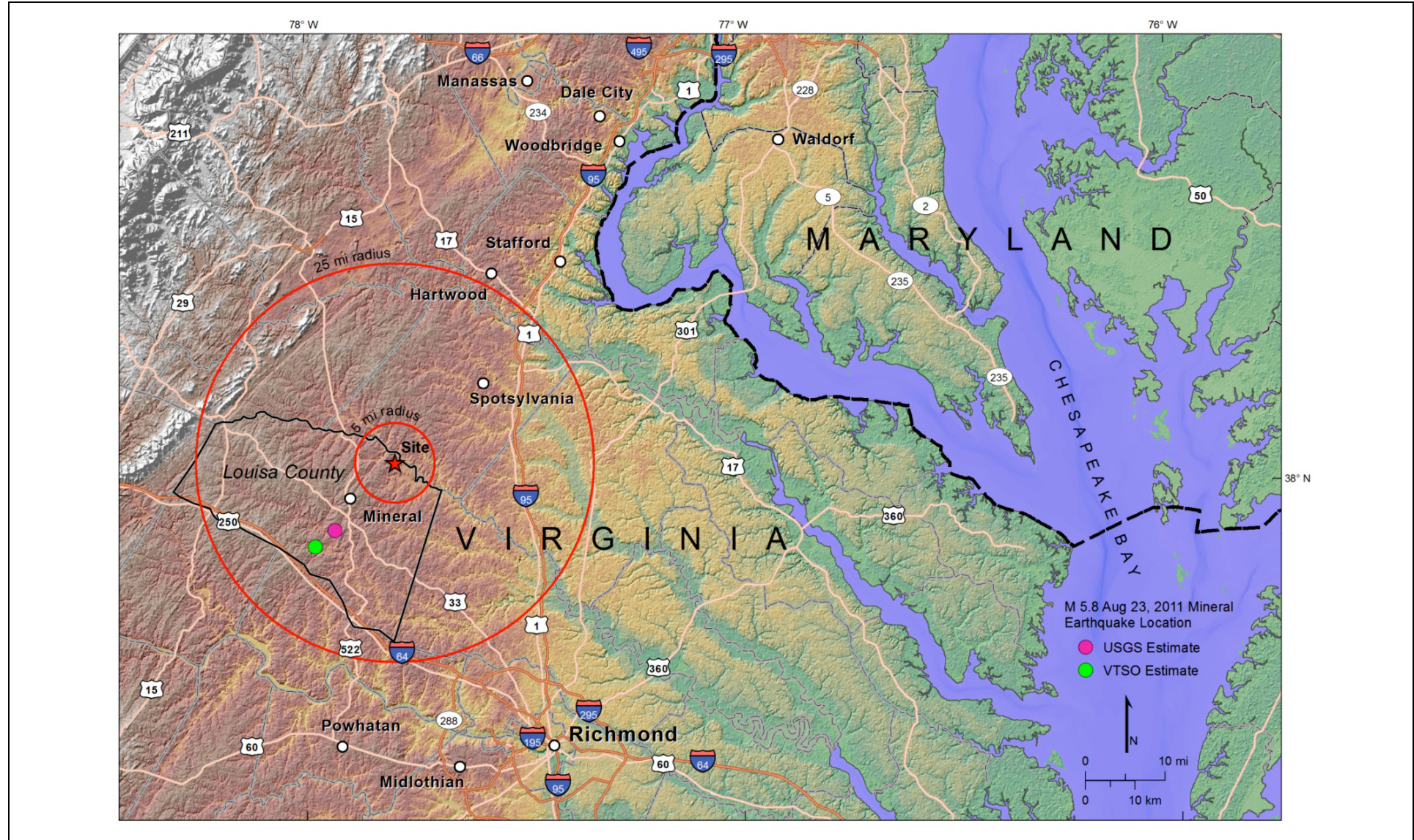
NOTES: For RLME annual frequency information, see Tables H-5.5-2 through H-5.5-6 from the CEUS SSC Report.

The weights on the suite of Seismogenic Crustal Thicknesses (depths) are updated values from what was published in the CEUS SSC Report, as indicated in the June 27, 2012 Updates file on the CEUS SSC Report web site (<http://www.ceus-ssc.org>). These weights differ slightly from the values in the published CEUS SSC Report, Table 5.4-2, shown in Table 2.5.2-210. As discussed in the FSAR, a single depth of 15 km was used, the justification of which is appropriate regardless the depth weights.



**NAPS COL 2.0-27-A**  
**NAPS ESP VAR 2.0-4**

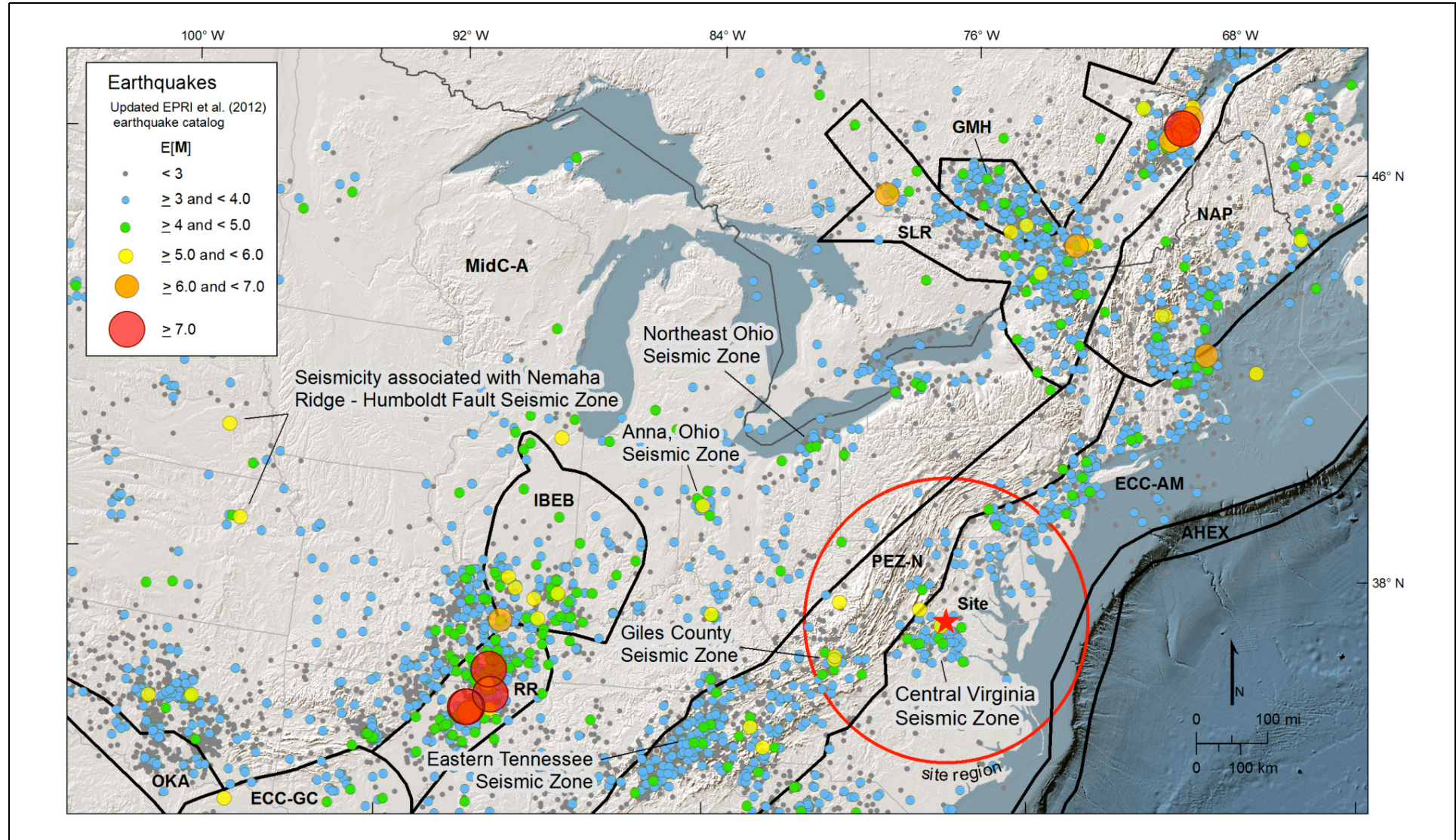
**NAPS COL 2.0-27-A**  
**NAPS ESP VAR 2.0-4**





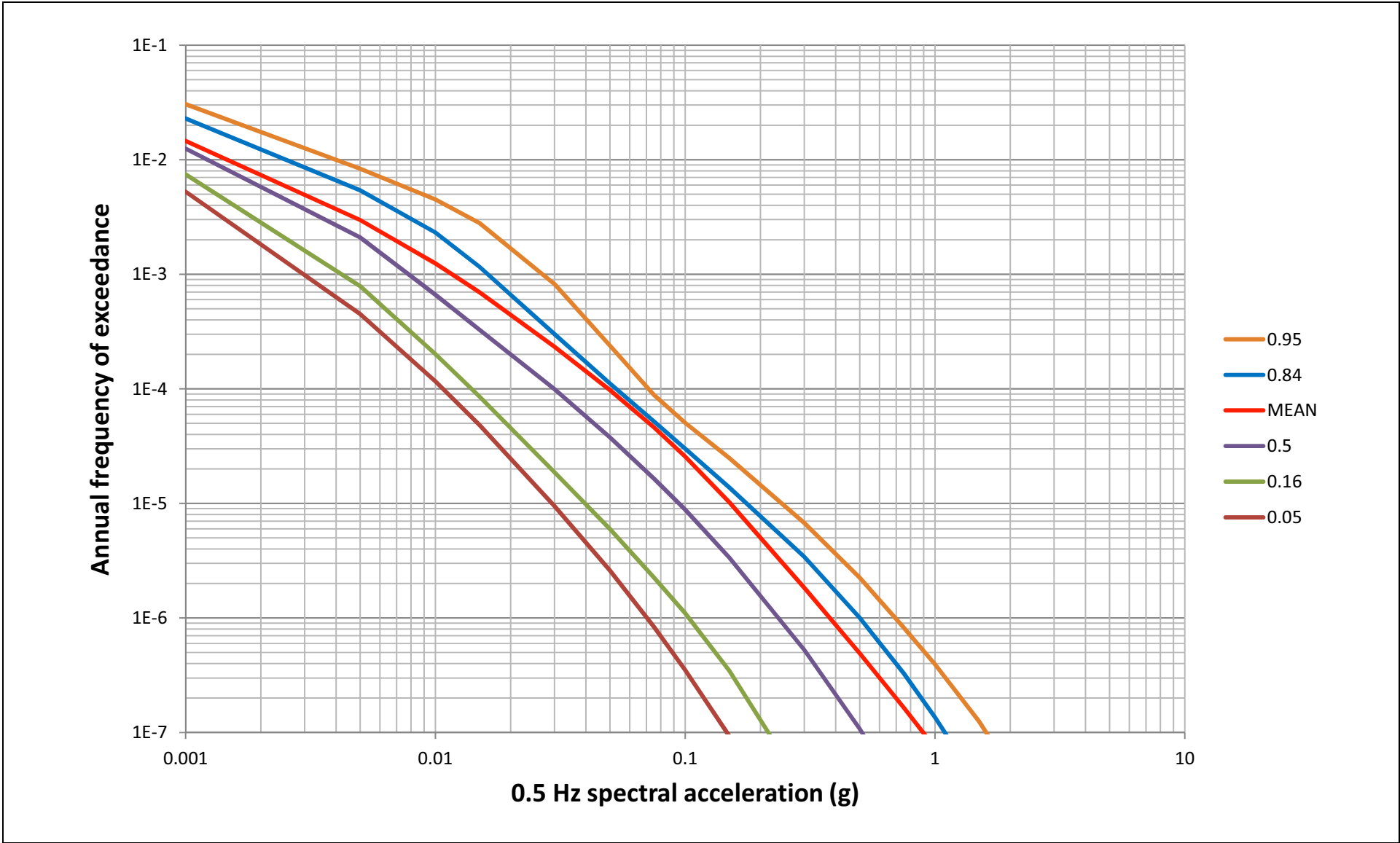
BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-229    Distribution of Seismicity from the Updated CEUS SSC Report Earthquake Catalog Illustrating Areas of Elevated Seismicity Described in the Text, Along with CEUS SSC Report Seismotectonic Source Zones (Modified from Figure 7.1-1 of [Reference 2.5-223](#))



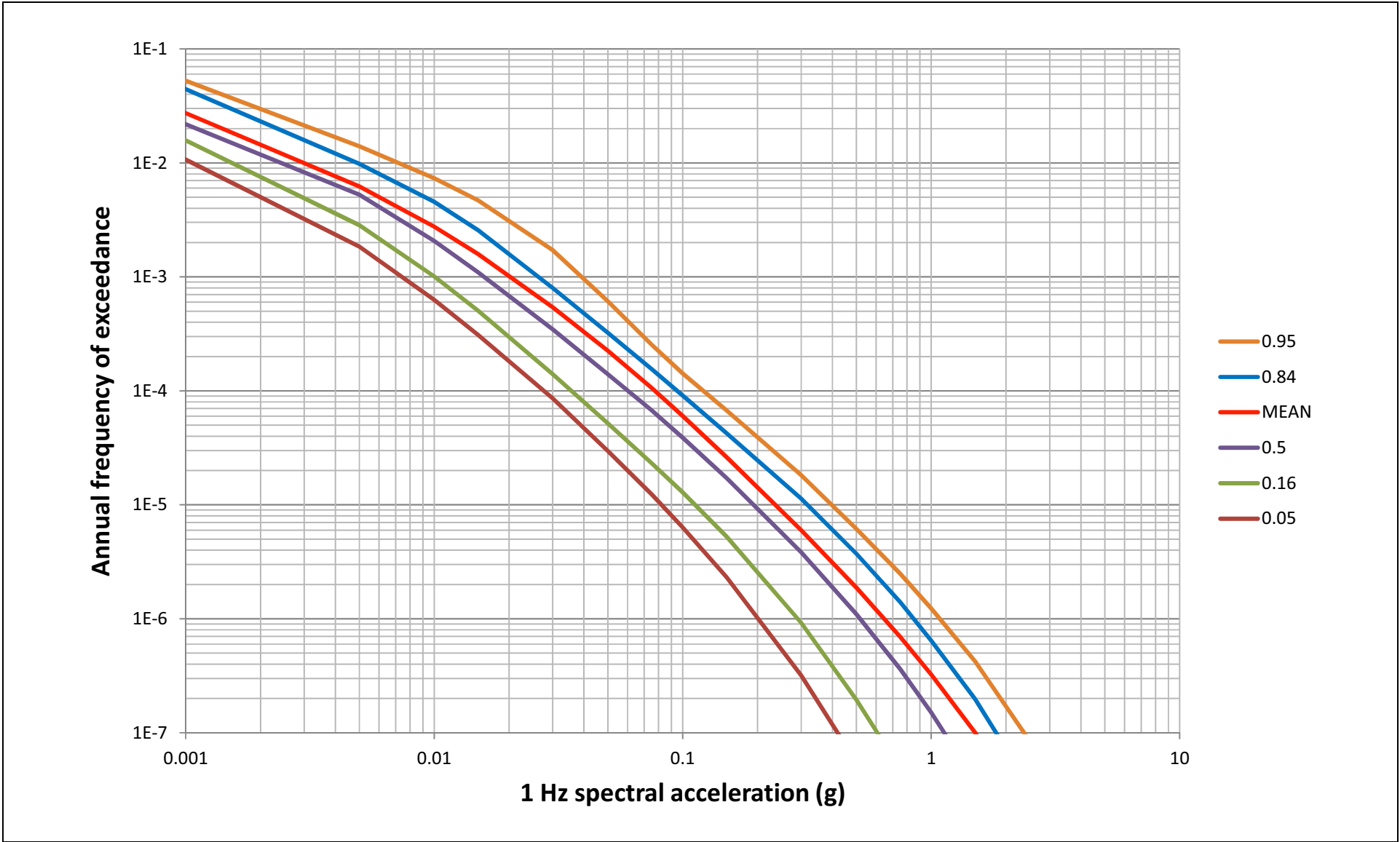


NAPS COL 2.0-27-A    **Figure 2.5.2-230**    Mean and Fractile Rock Hazard Curves for 0.5 Hz  
NAPS ESP VAR 2.0-4



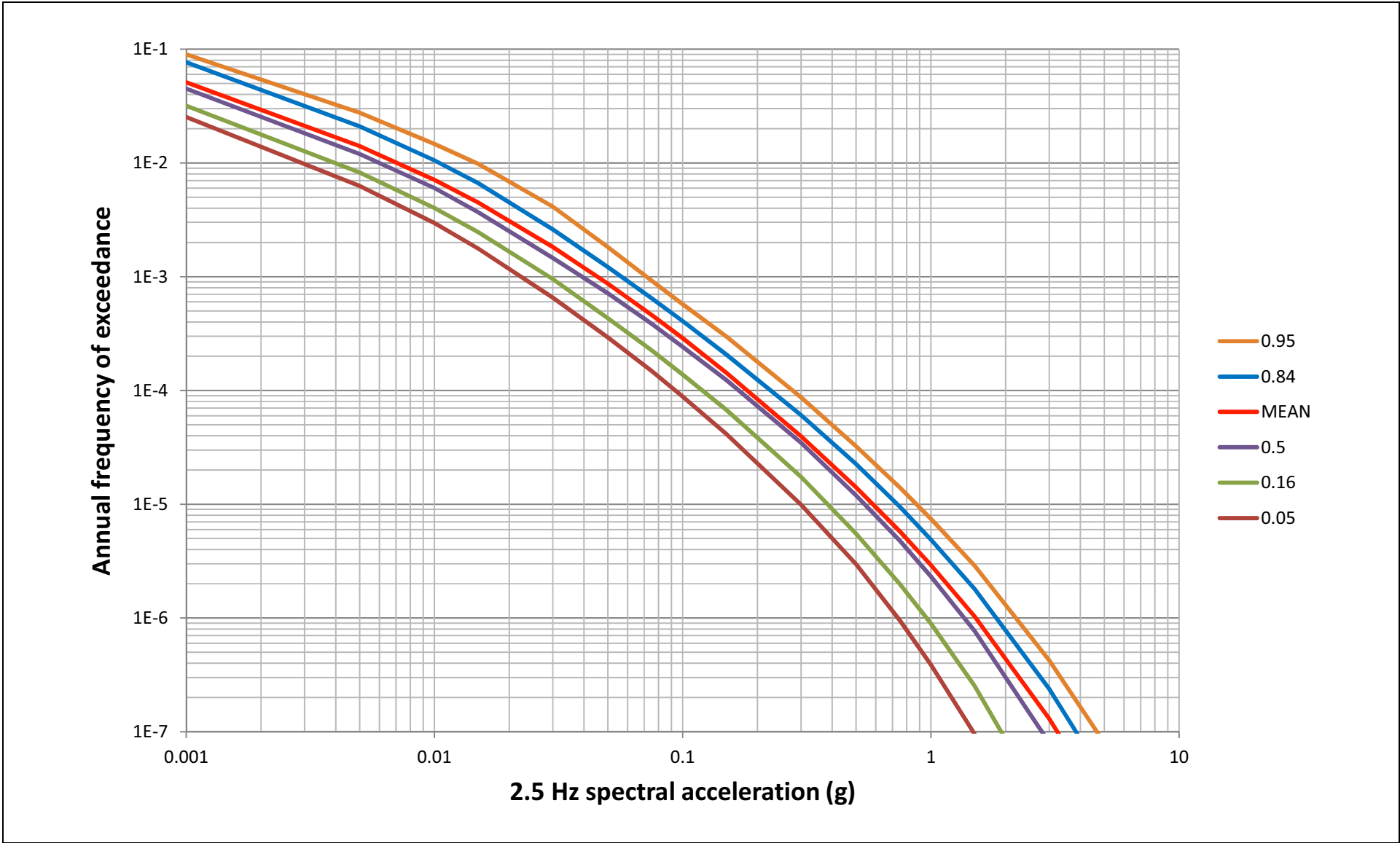


NAPS COL 2.0-27-A    **Figure 2.5.2-231**    Mean and Fractile Rock Hazard Curves for 1 Hz  
NAPS ESP VAR 2.0-4



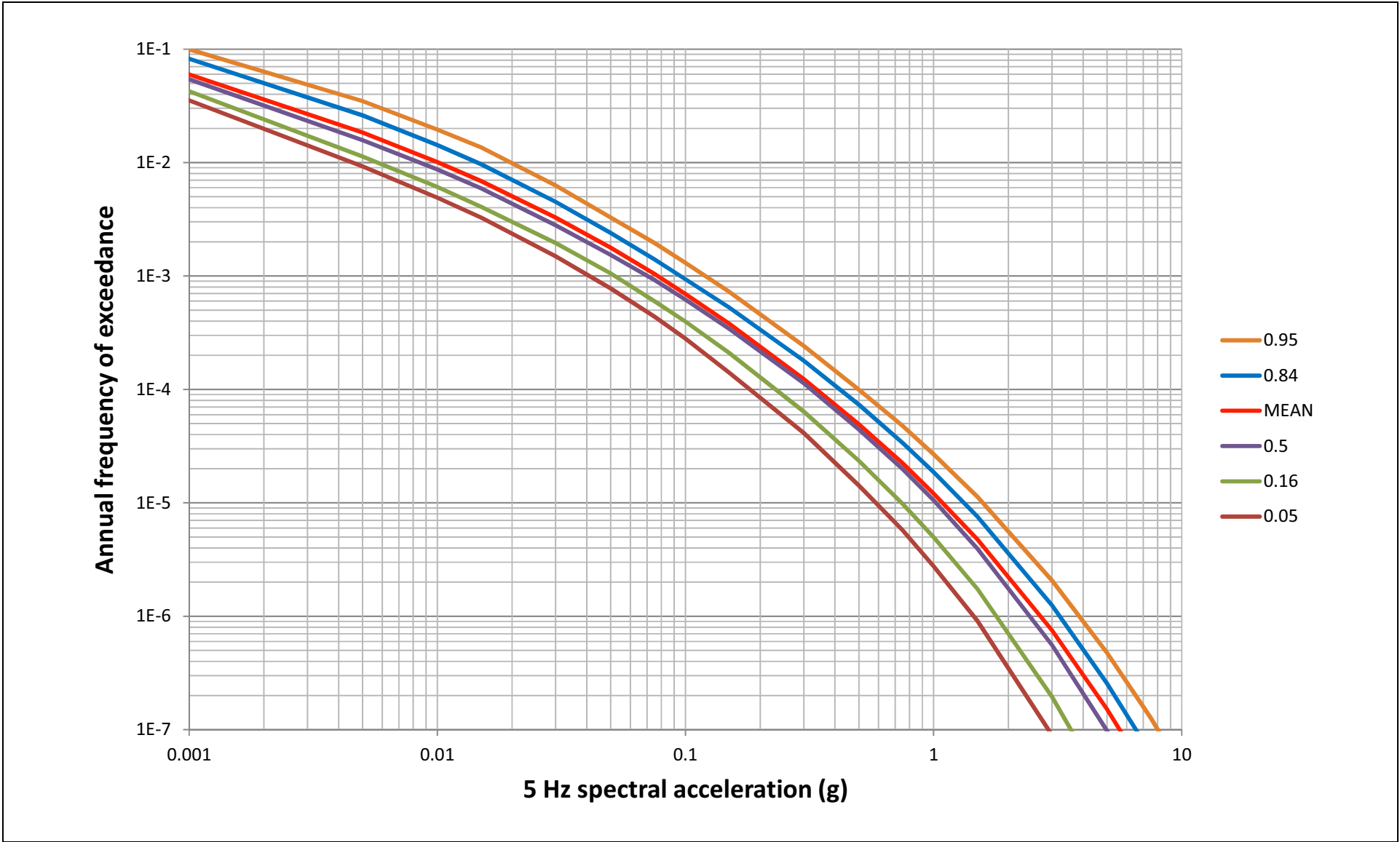


NAPS COL 2.0-27-A    **Figure 2.5.2-232    Mean and Fractile Rock Hazard Curves for 2.5 Hz**  
NAPS ESP VAR 2.0-4

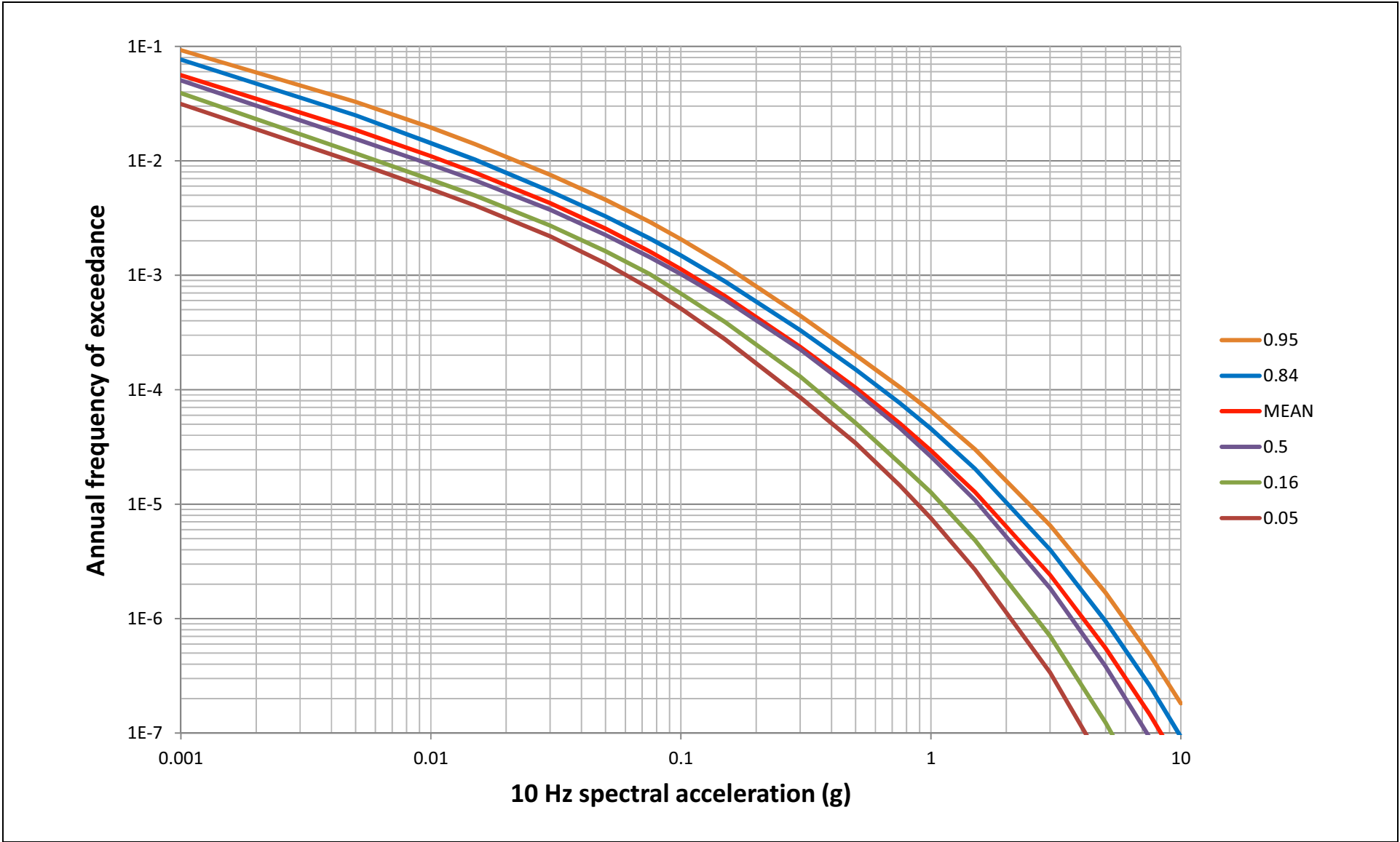




NAPS COL 2.0-27-A    Figure 2.5.2-233    Mean and Fractile Rock Hazard Curves for 5 Hz  
NAPS ESP VAR 2.0-4

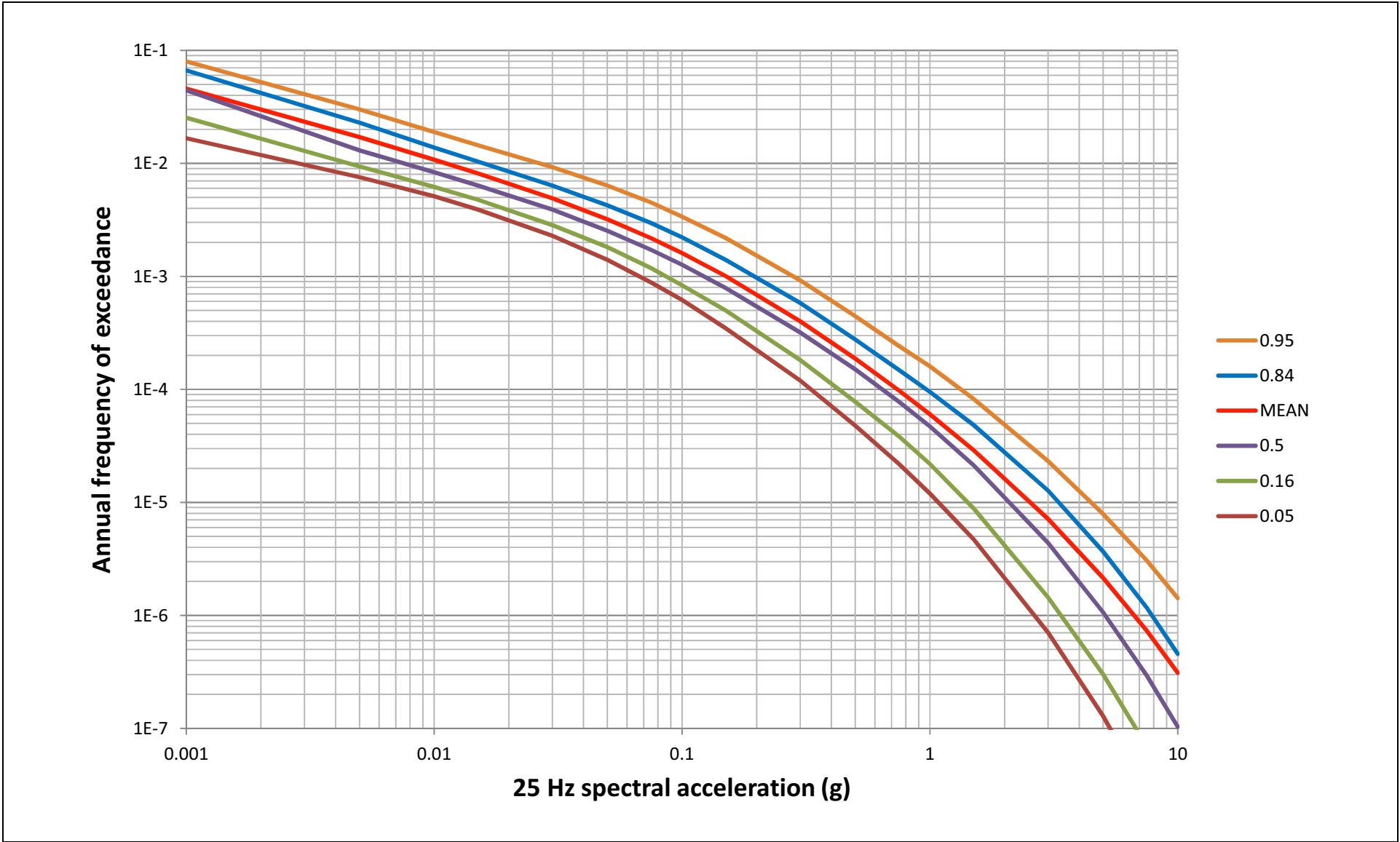


NAPS COL 2.0-27-A    Figure 2.5.2-234    Mean and Fractile Rock Hazard Curves for 10 Hz  
NAPS ESP VAR 2.0-4

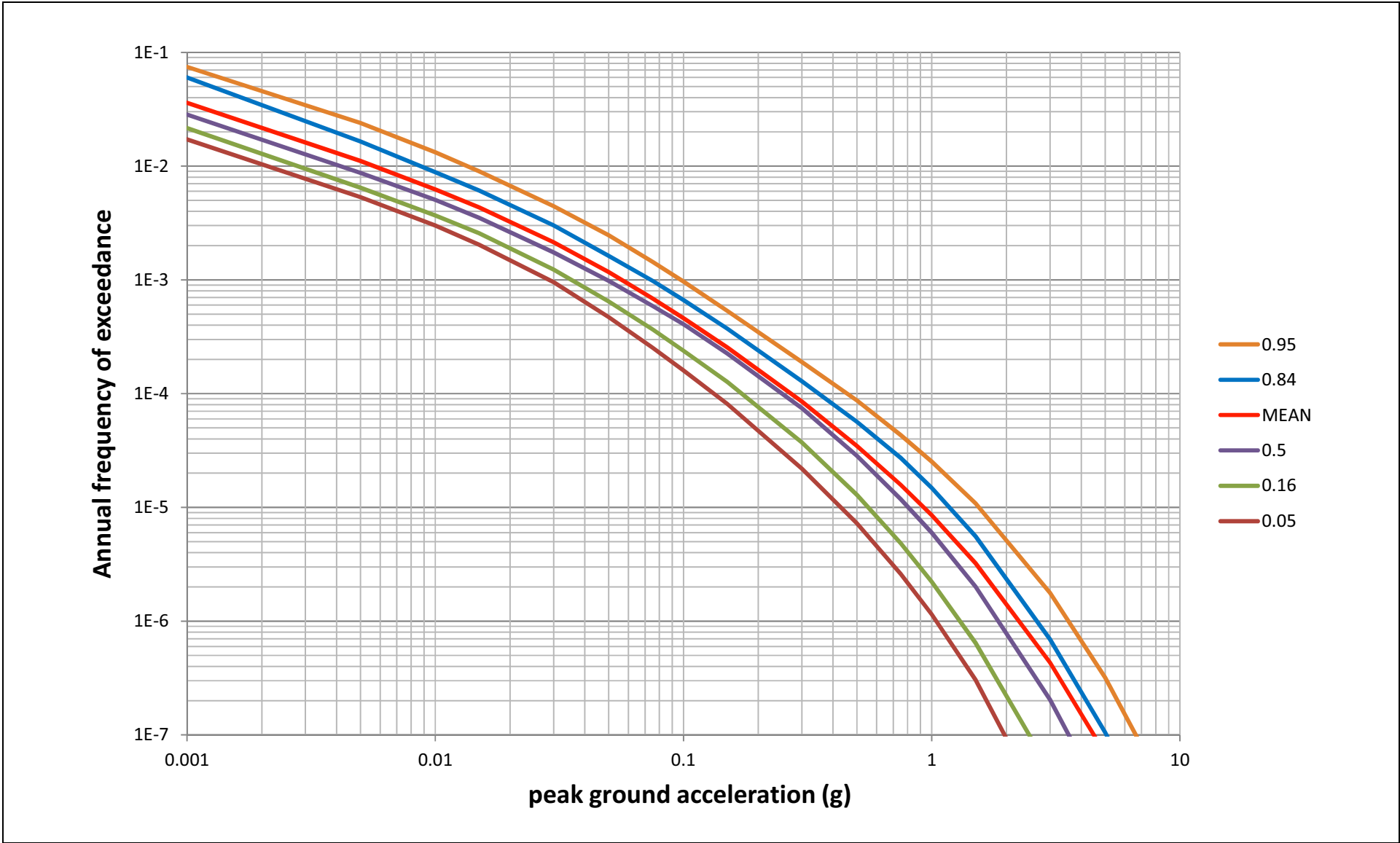




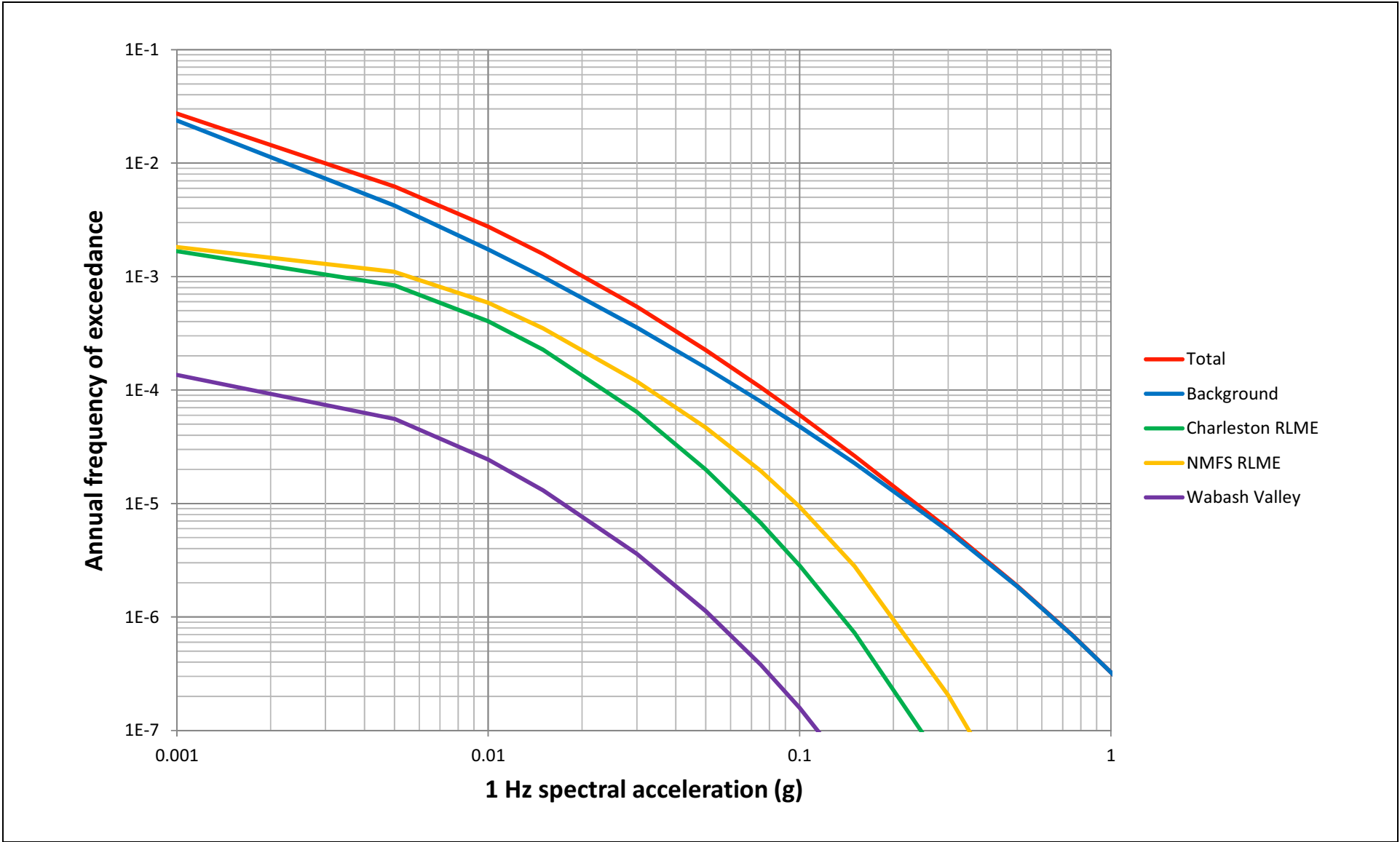
NAPS COL 2.0-27-A    **Figure 2.5.2-235**    Mean and Fractile Rock Hazard Curves for 25 Hz  
NAPS ESP VAR 2.0-4



NAPS COL 2.0-27-A    **Figure 2.5.2-236**    Mean and Fractile Rock Hazard Curves for PGA  
NAPS ESP VAR 2.0-4



NAPS COL 2.0-27-A    Figure 2.5.2-237    1 Hz Mean Rock Hazard from Background, Charleston, New Madrid and Wabash Valley  
NAPS ESP VAR 2.0-4





NAPS COL 2.0-27-A    Figure 2.5.2-238    10 Hz Mean Rock Hazard from Background, Charleston, New Madrid and Wabash Valley  
NAPS ESP VAR 2.0-4

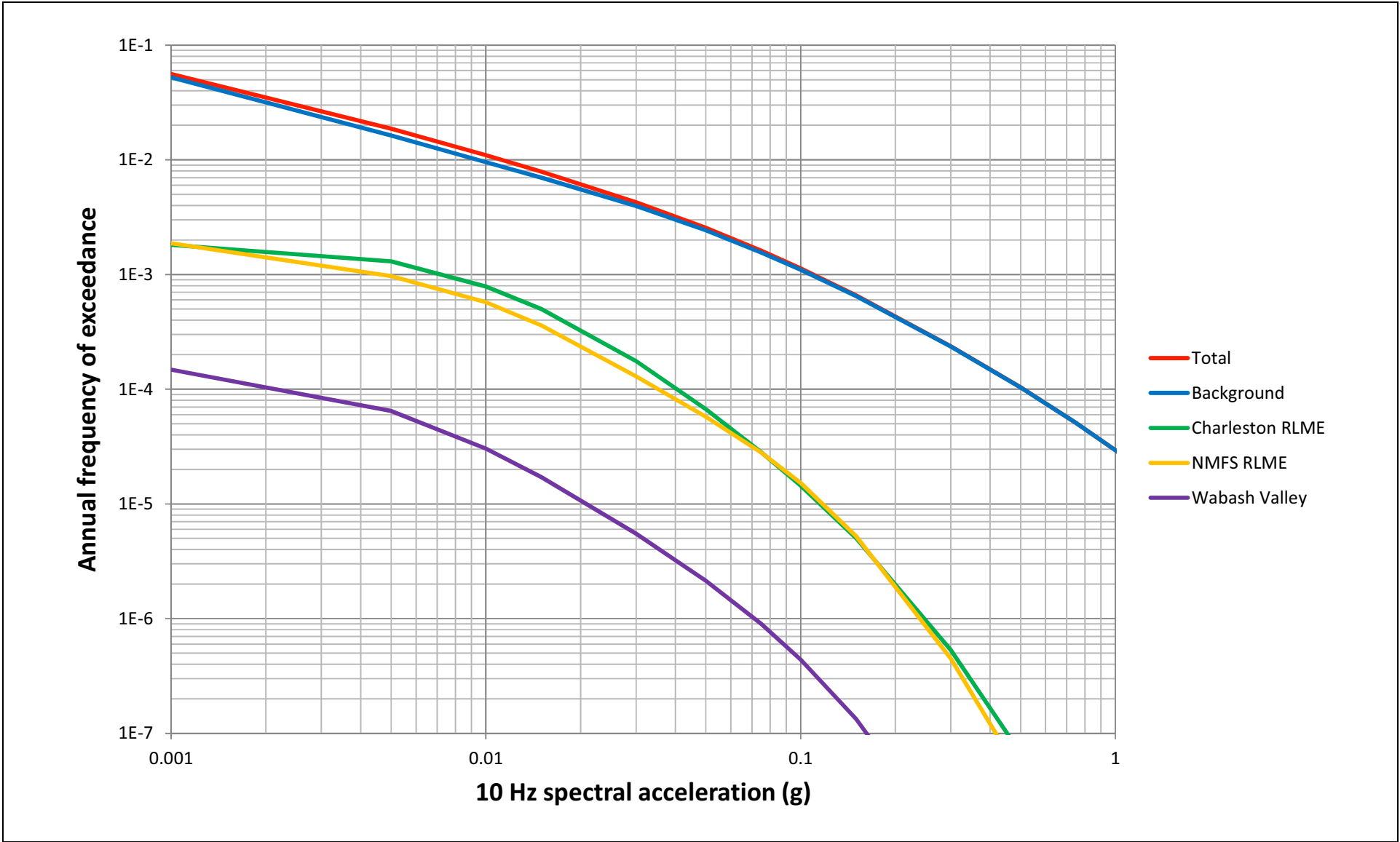
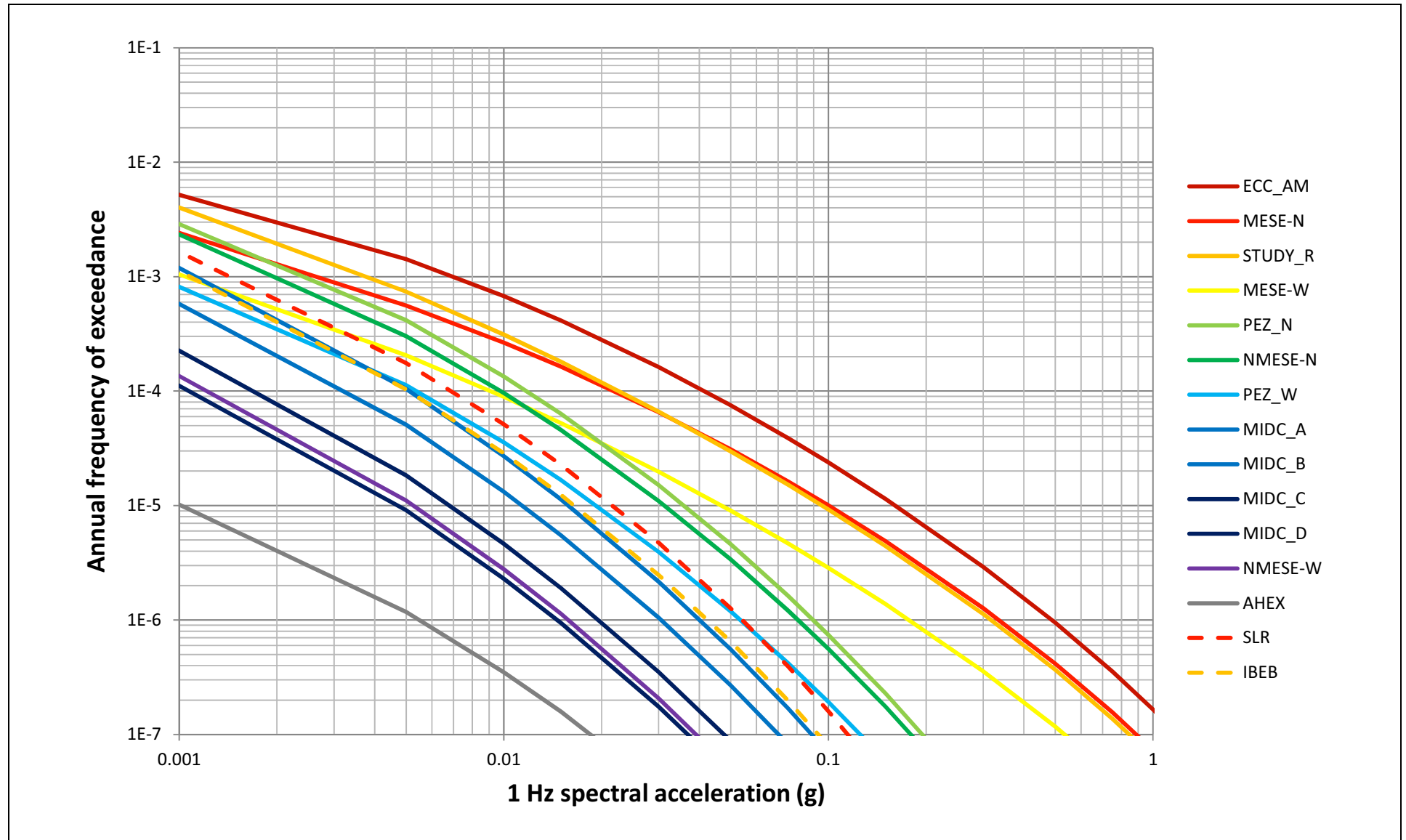


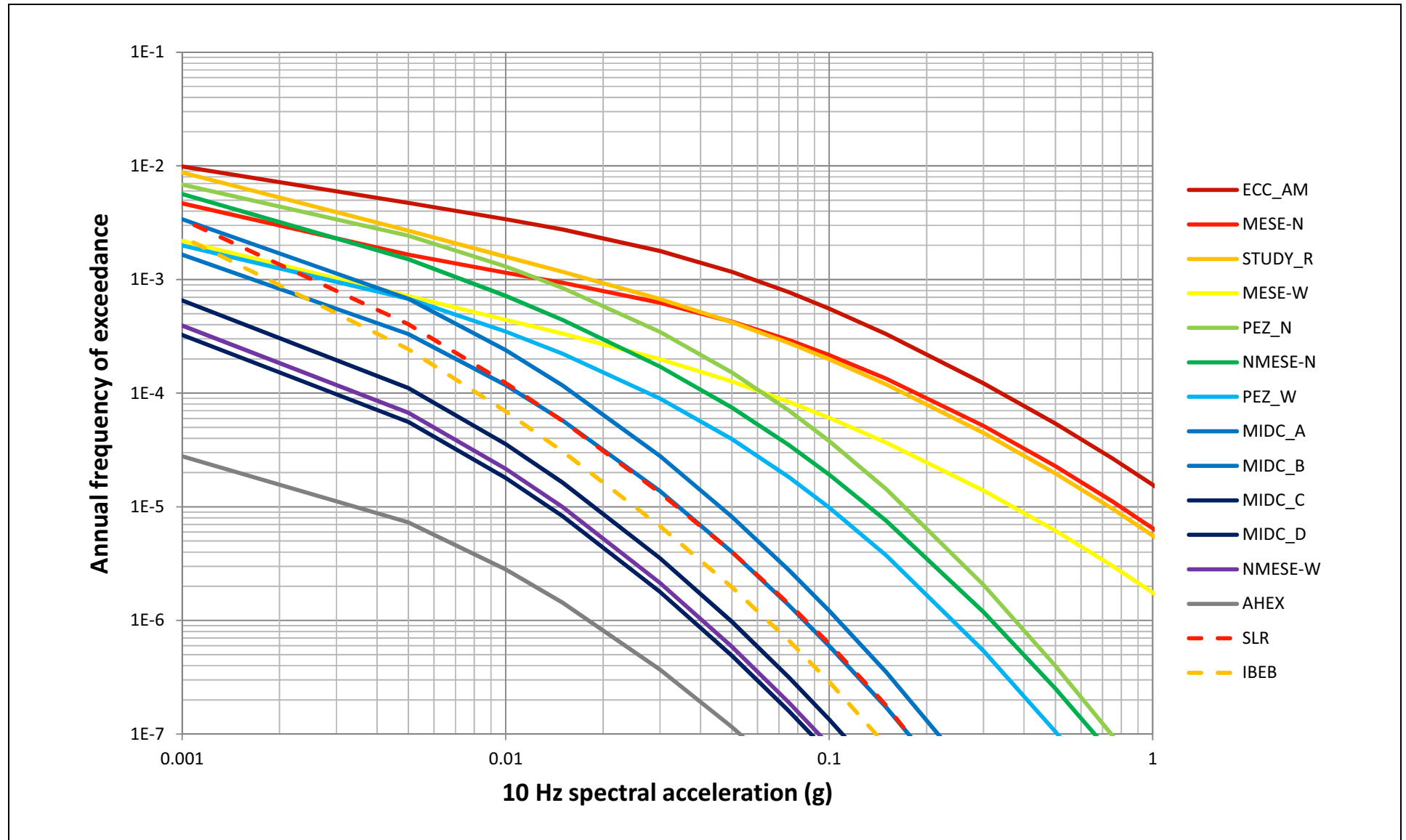
Figure 2.5.2-239 1 Hz Mean Rock Hazard from Individual Weighted Background Sources



BASIS: NEW

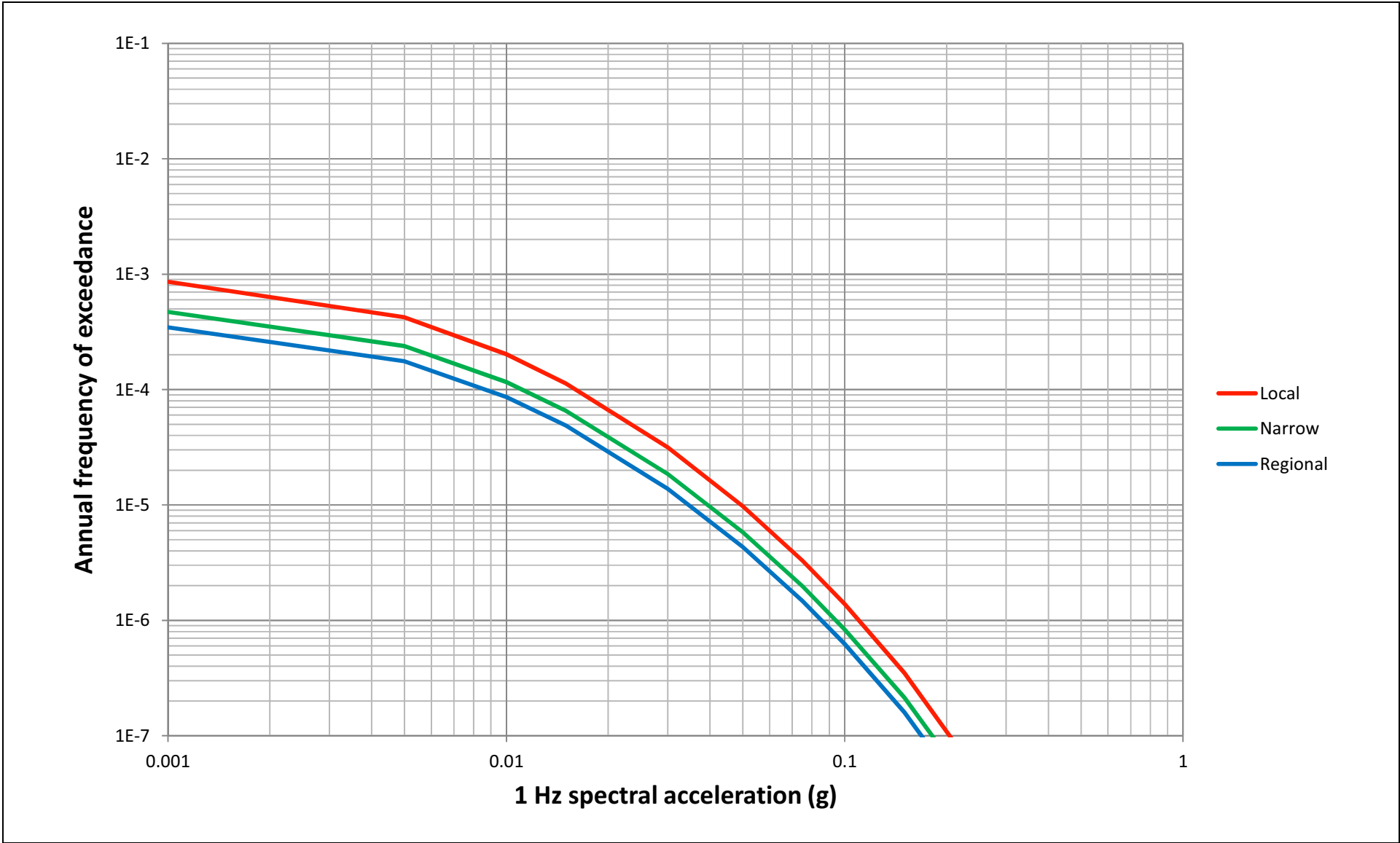
NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

Figure 2.5.2-240 10 Hz Mean Rock Hazard from Individual Weighted Background Sources

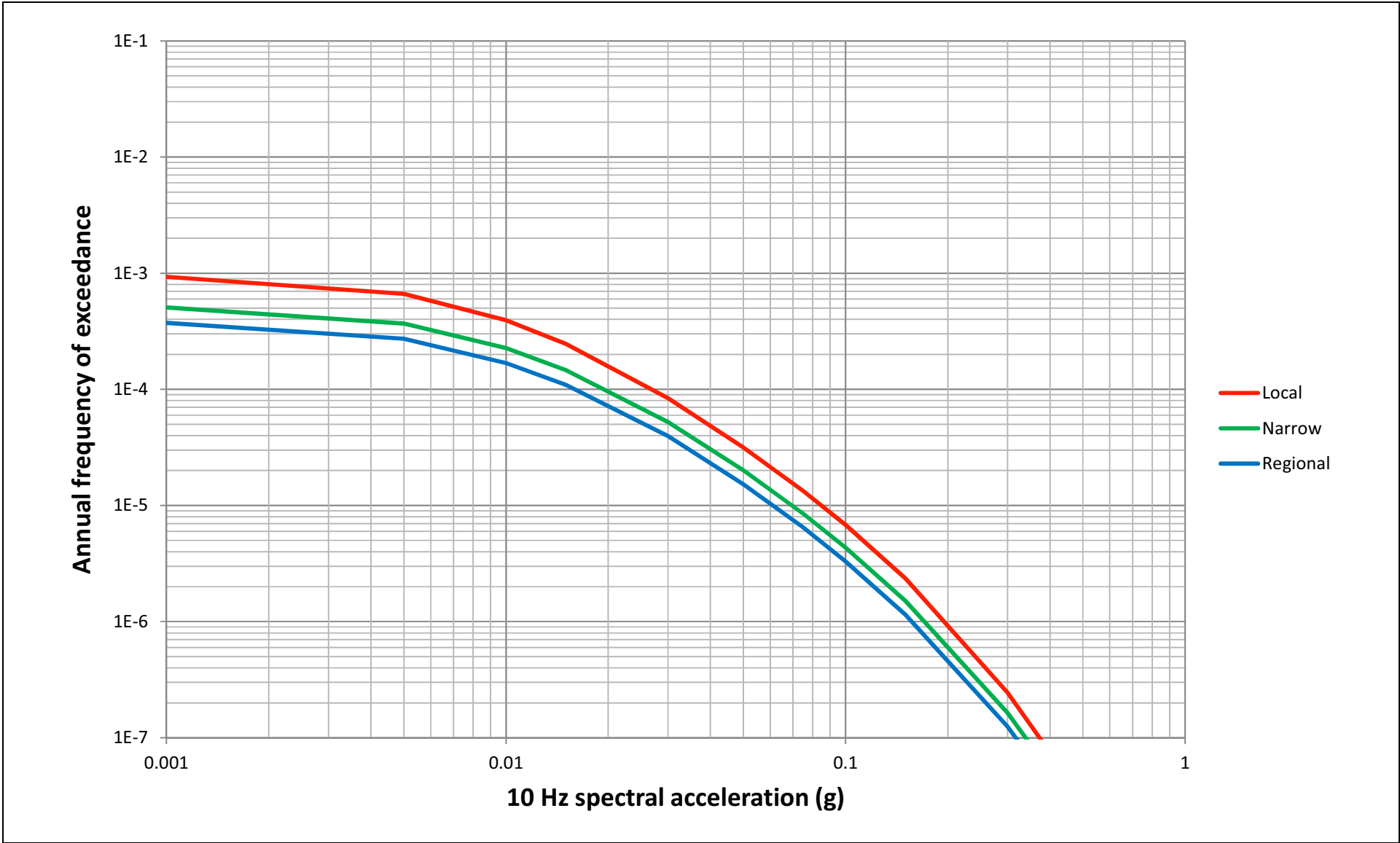




NAPS COL 2.0-27-A    Figure 2.5.2-241    1 Hz Mean Rock Hazard from Individual Weighted Charleston Sources  
NAPS ESP VAR 2.0-4

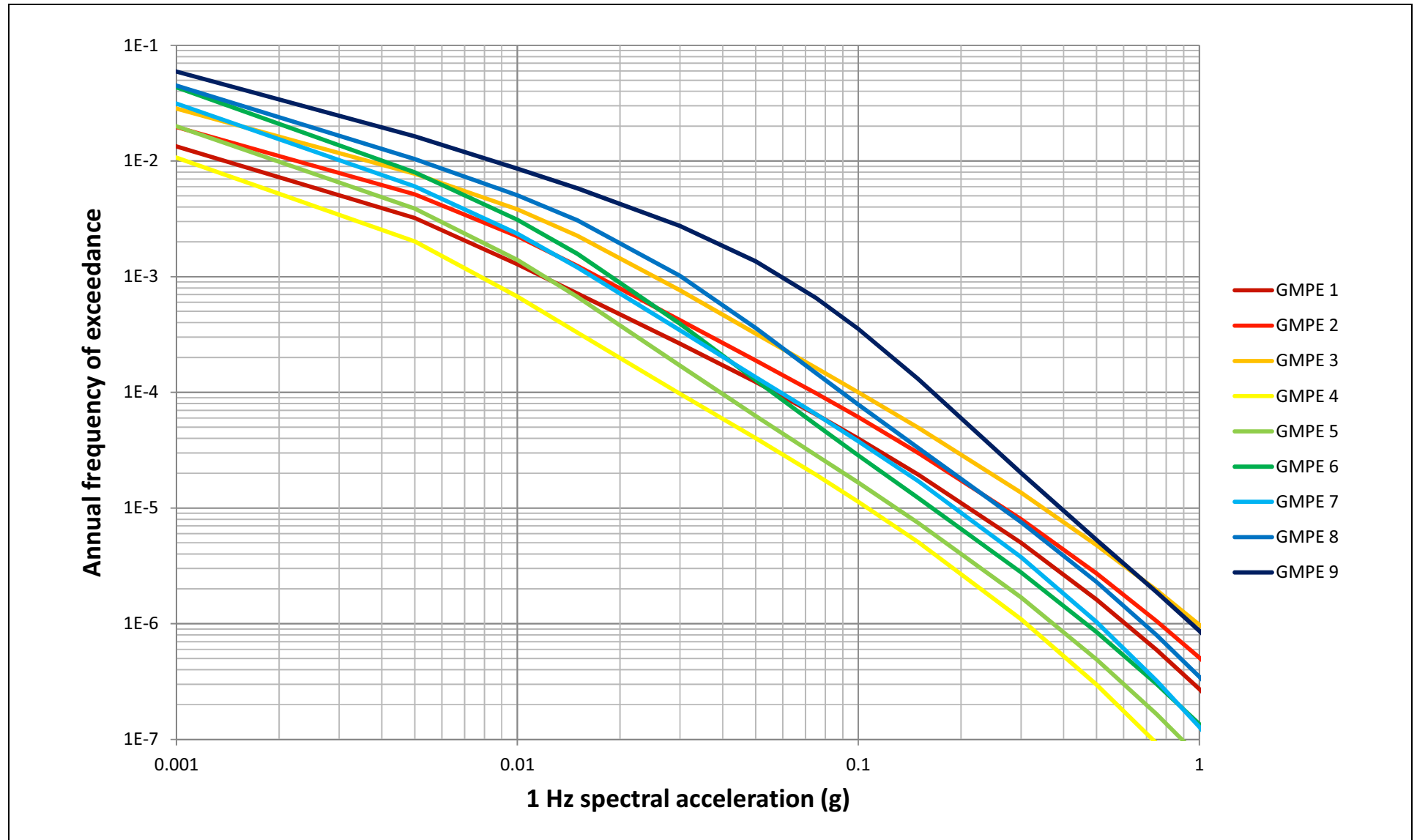


NAPS COL 2.0-27-A    Figure 2.5.2-242    10 Hz Mean Rock Hazard from Individual Weighted Charleston Sources  
NAPS ESP VAR 2.0-4



BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-243    Unweighted Sensitivity to the 9 EPRI (Background) Ground Motion Prediction Equations, 1 Hz  
NAPS ESP VAR 2.0-4

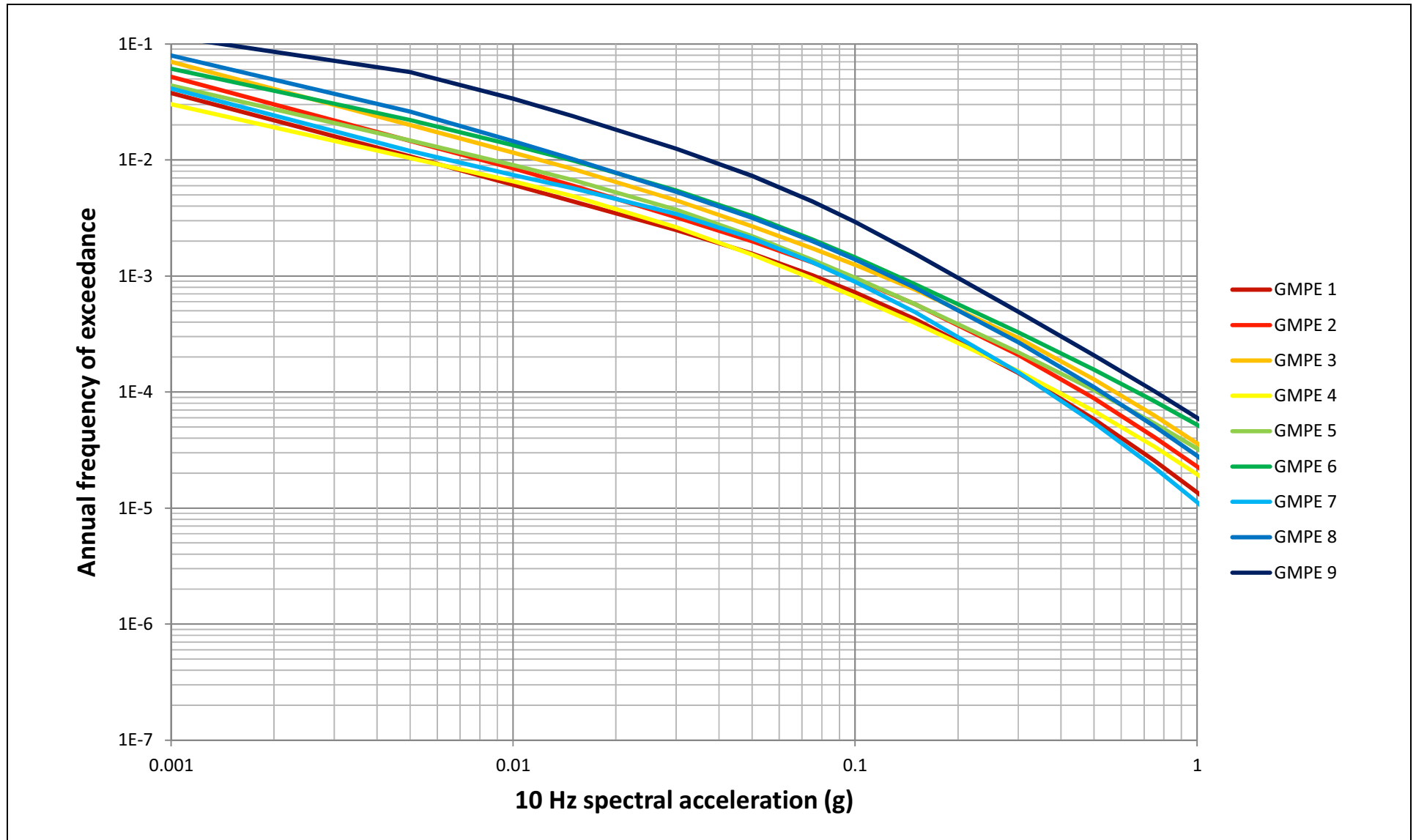




BASIS: NEW

NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

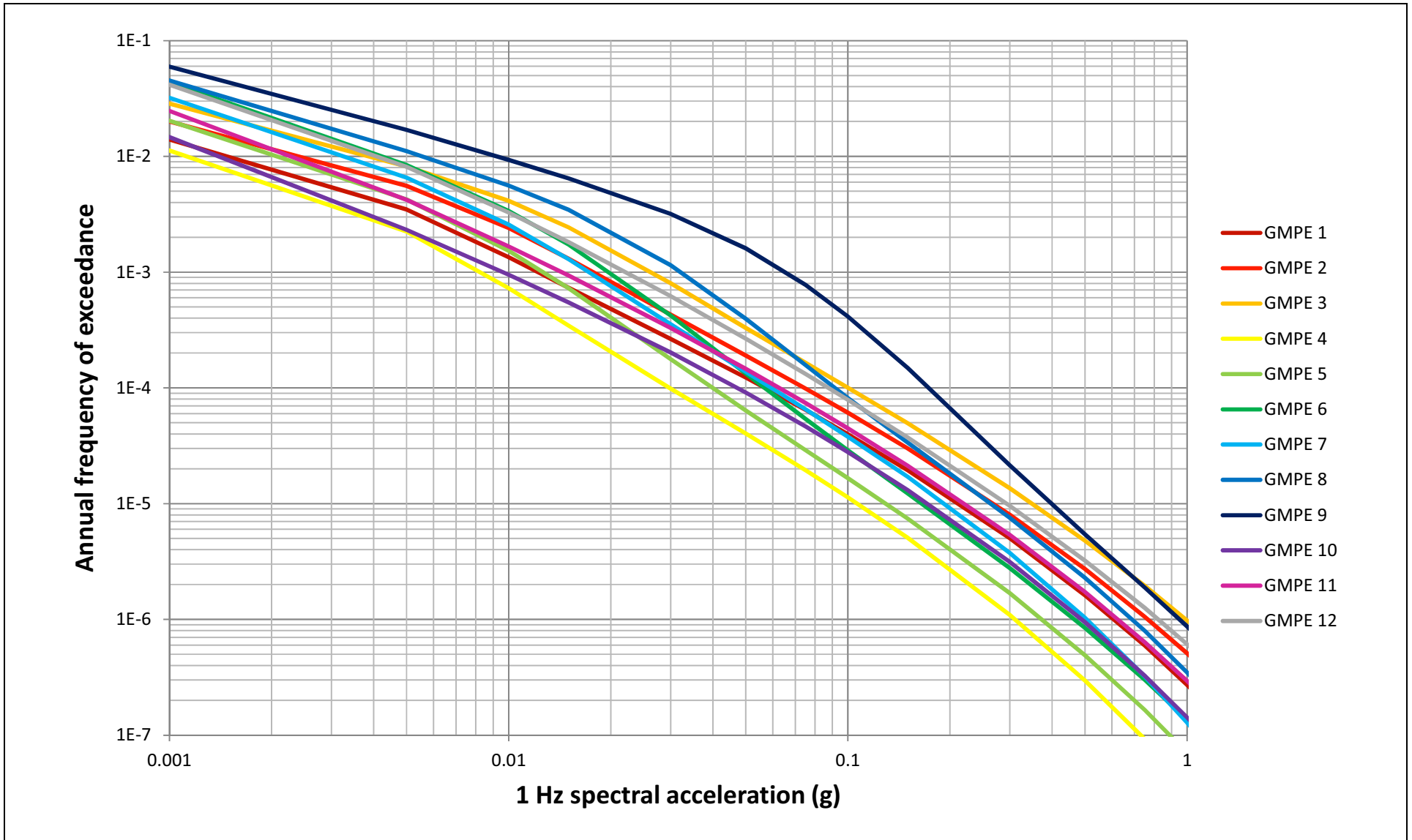
Figure 2.5.2-244 Unweighted Sensitivity to the 9 EPRI (Background) Ground Motion Prediction Equations, 10 Hz



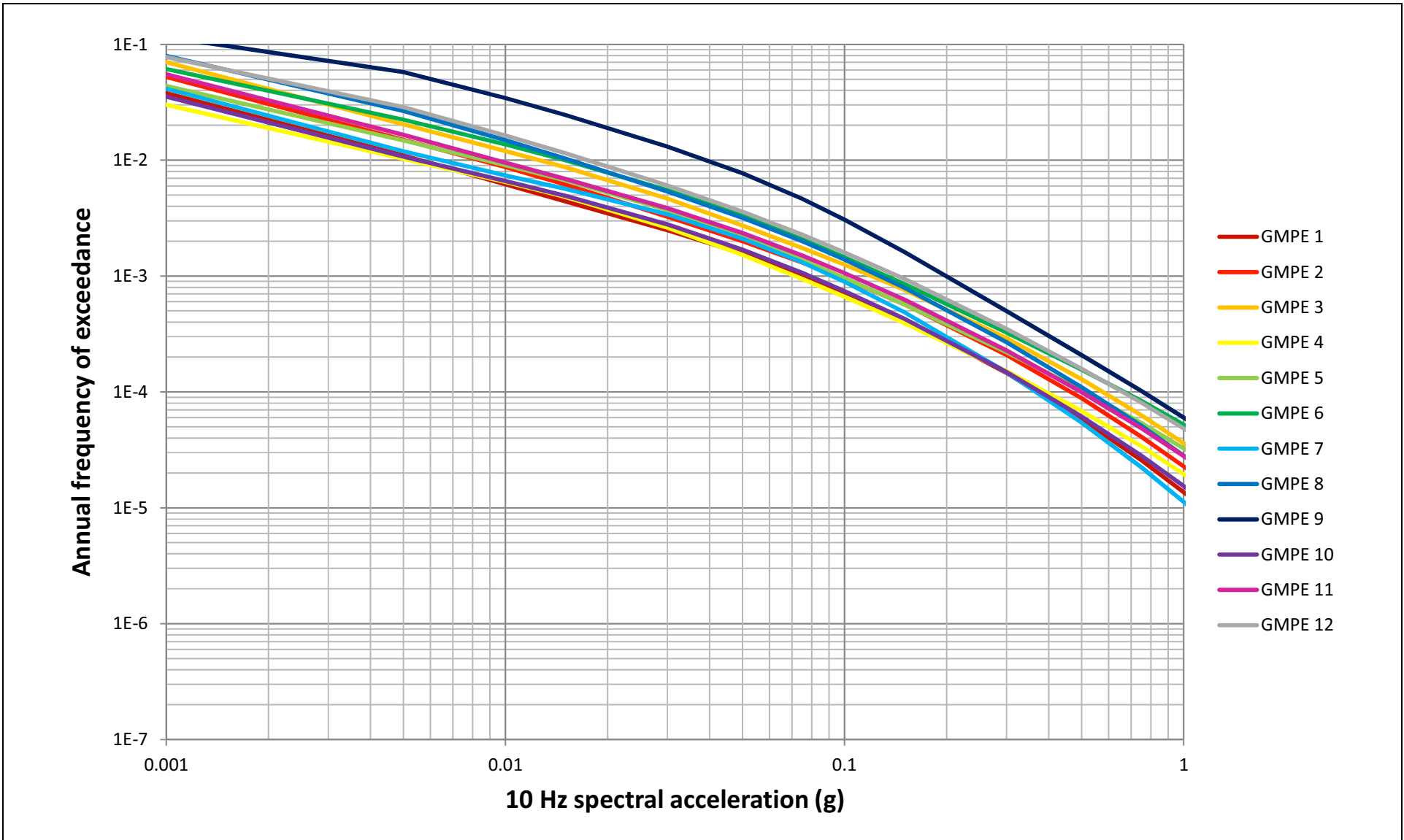
BASIS: NEW

NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

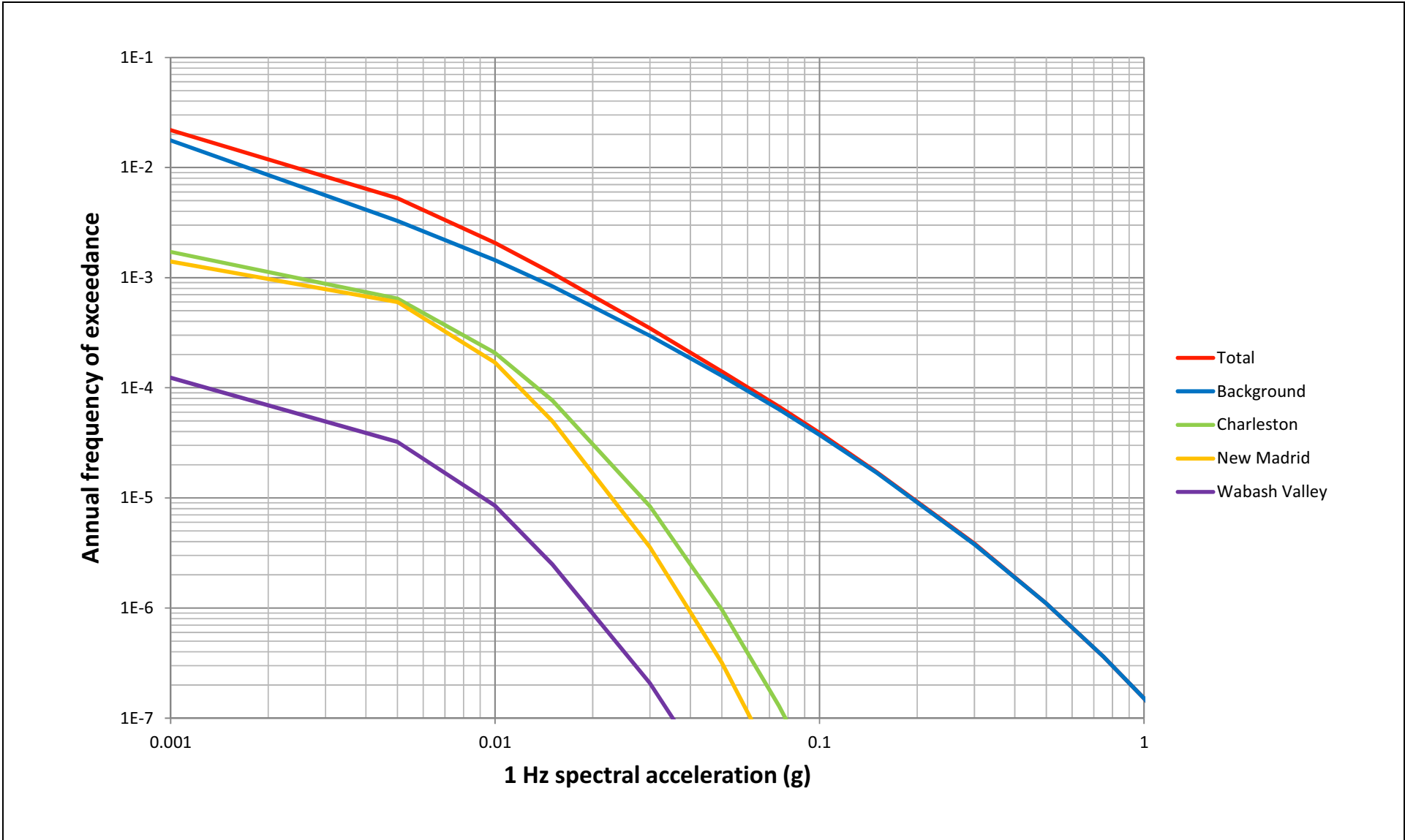
Figure 2.5.2-245 Unweighted Sensitivity to the 12 EPRI (RLME) Ground Motion Prediction Equations, 1 Hz



NAPS COL 2.0-27-A    Figure 2.5.2-246    Unweighted Sensitivity to the 12 EPRI (RLME) Ground Motion Prediction Equations, 10 Hz  
NAPS ESP VAR 2.0-4



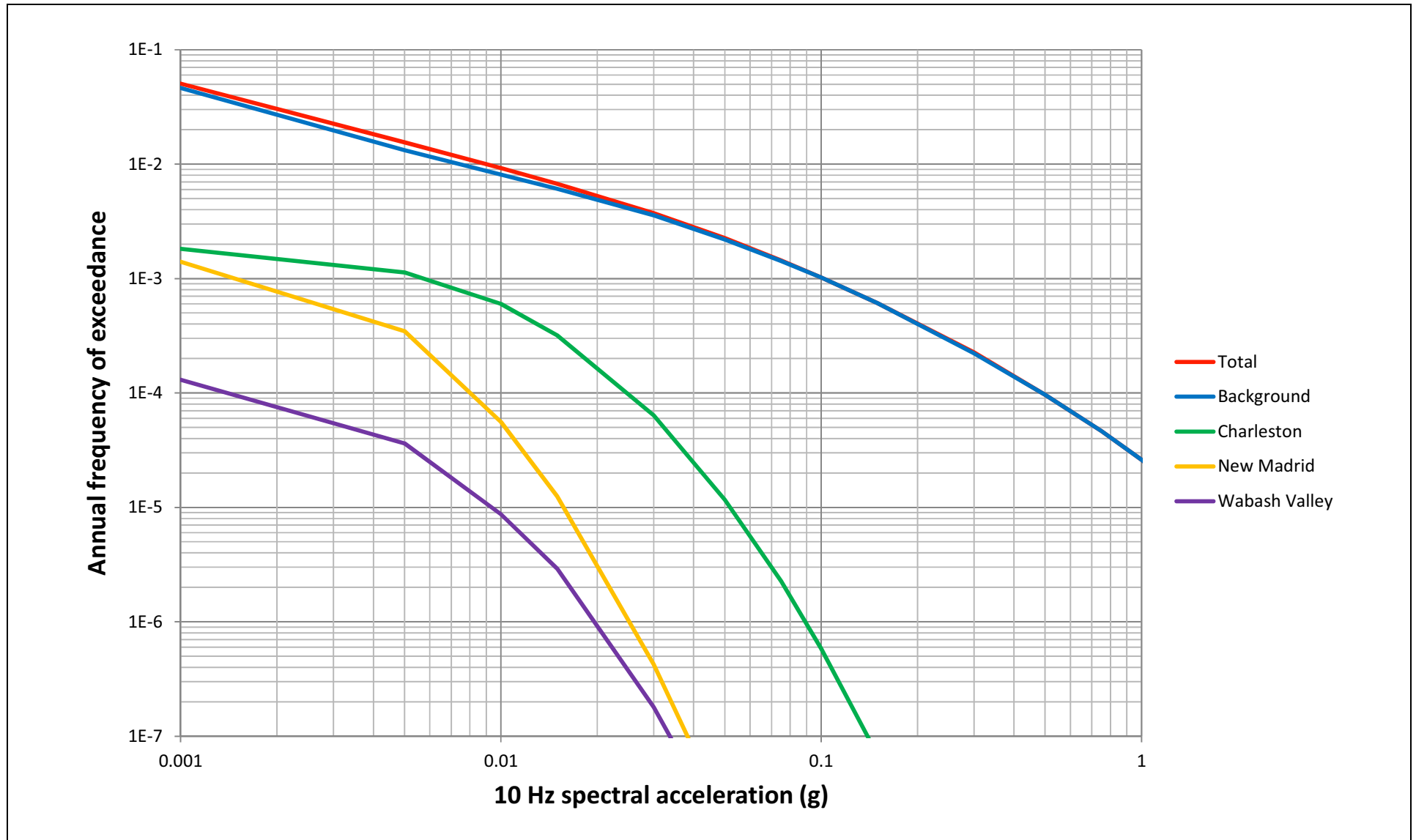
NAPS COL 2.0-27-A    Figure 2.5.2-247    1 Hz Median Rock Hazard from Background, Charleston, New Madrid and Wabash Valley  
NAPS ESP VAR 2.0-4



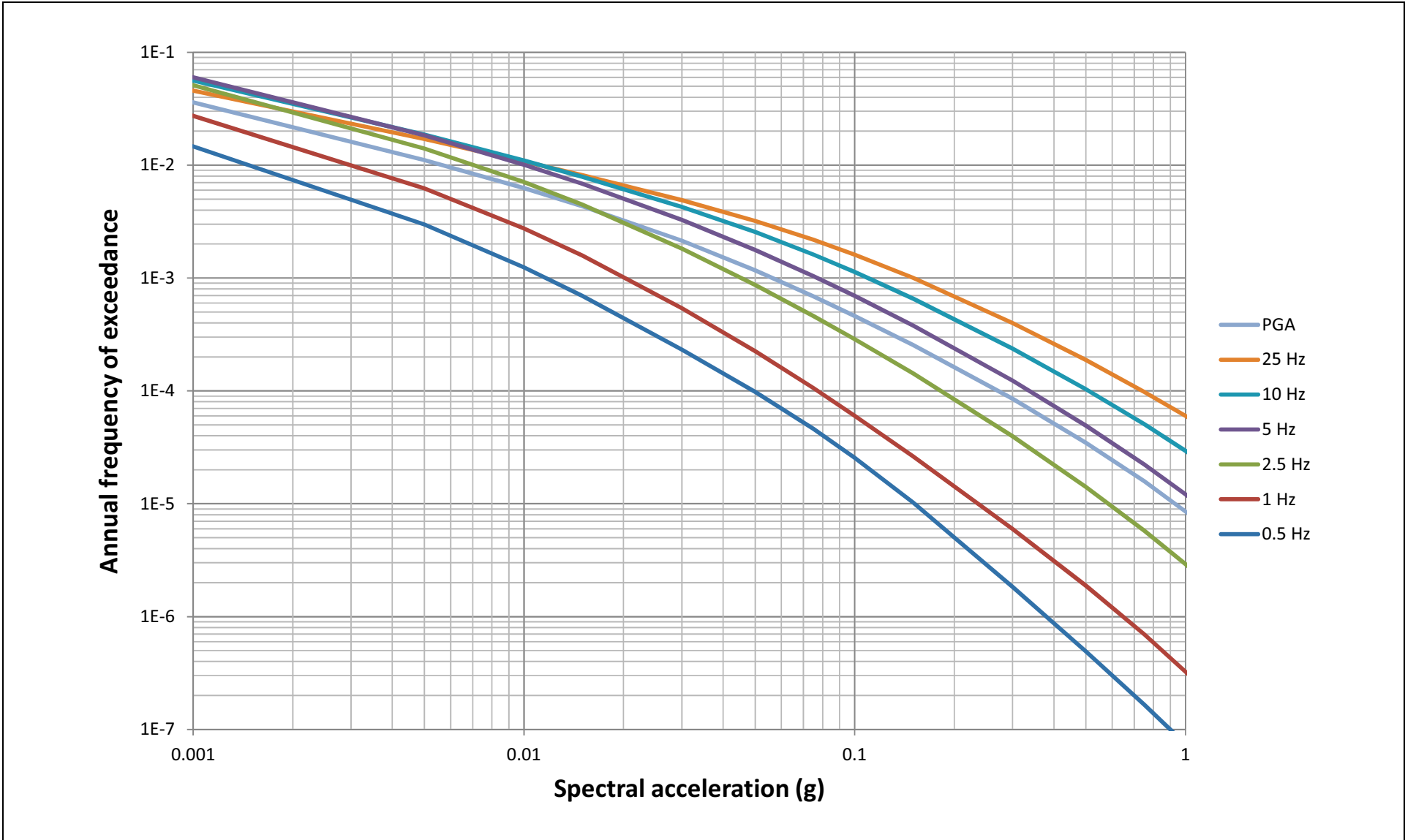


BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-248    10 Hz Median Rock Hazard from Background, Charleston, New Madrid and Wabash Valley  
NAPS ESP VAR 2.0-4

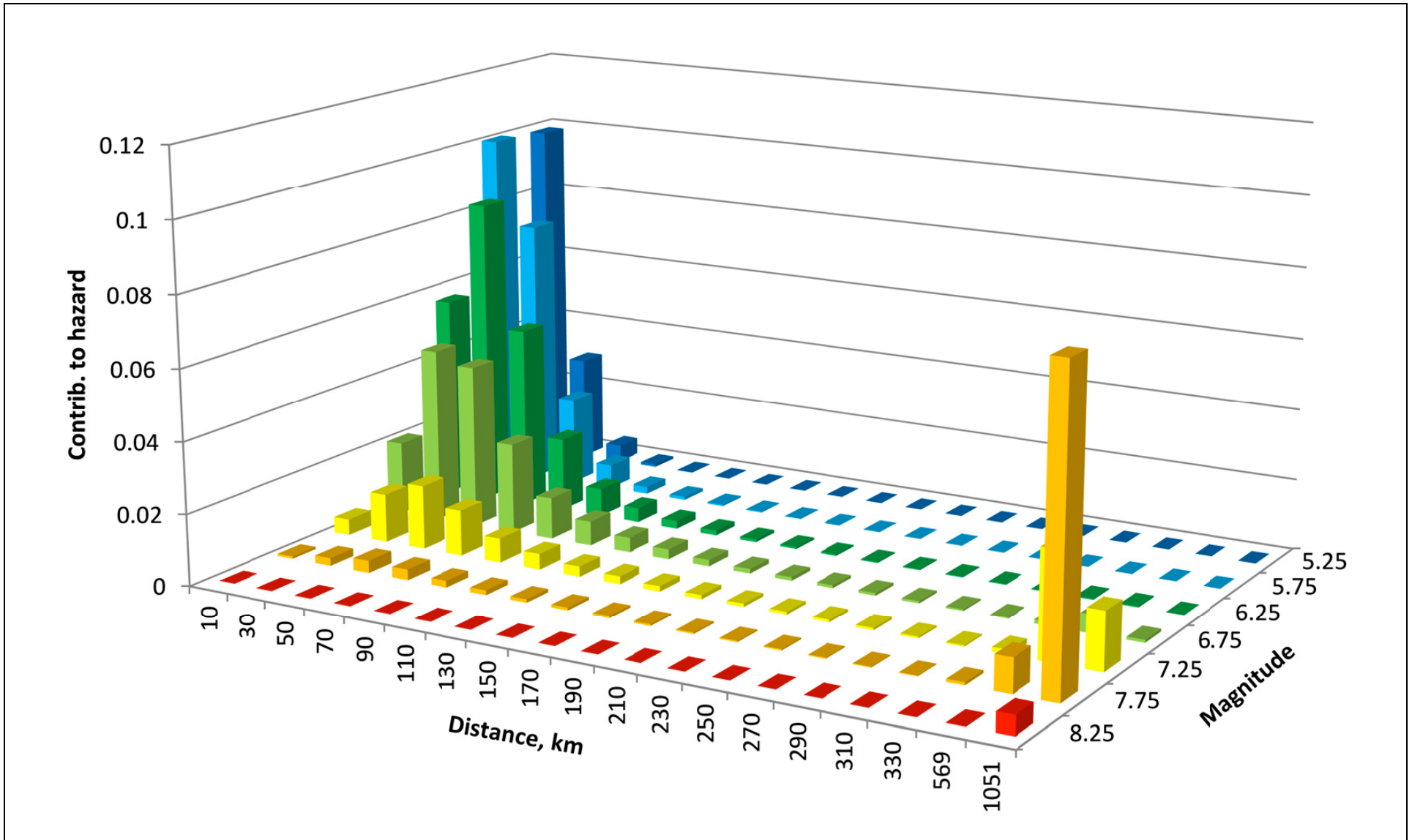


NAPS COL 2.0-27-A    Figure 2.5.2-249    Mean Total Rock Hazard Curves for 7 Spectral Frequencies  
NAPS ESP VAR 2.0-4



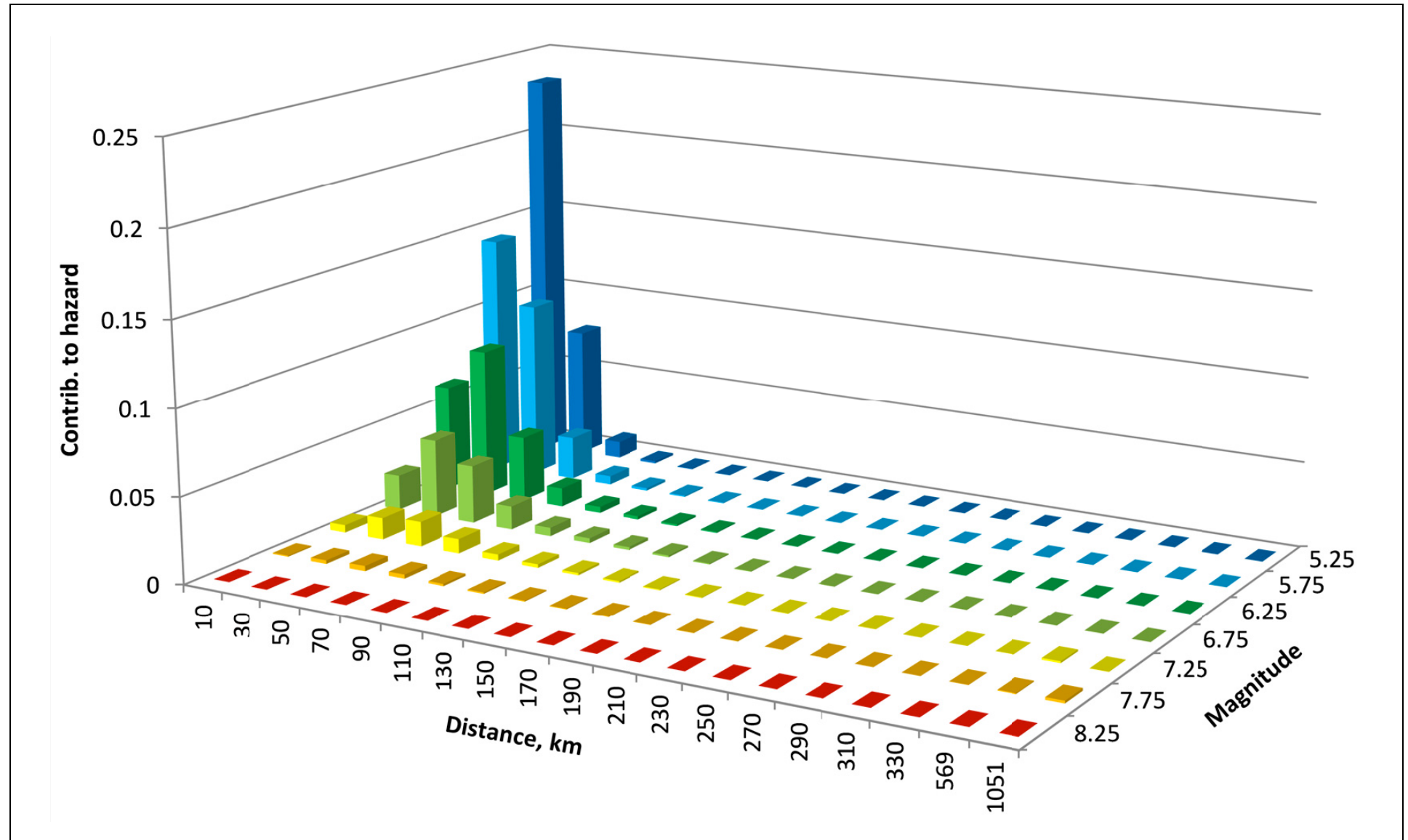
BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-250    Mean  $10^{-4}$  Deaggregation Plot for 1 and 2.5 Hz (LF)  
NAPS ESP VAR 2.0-4



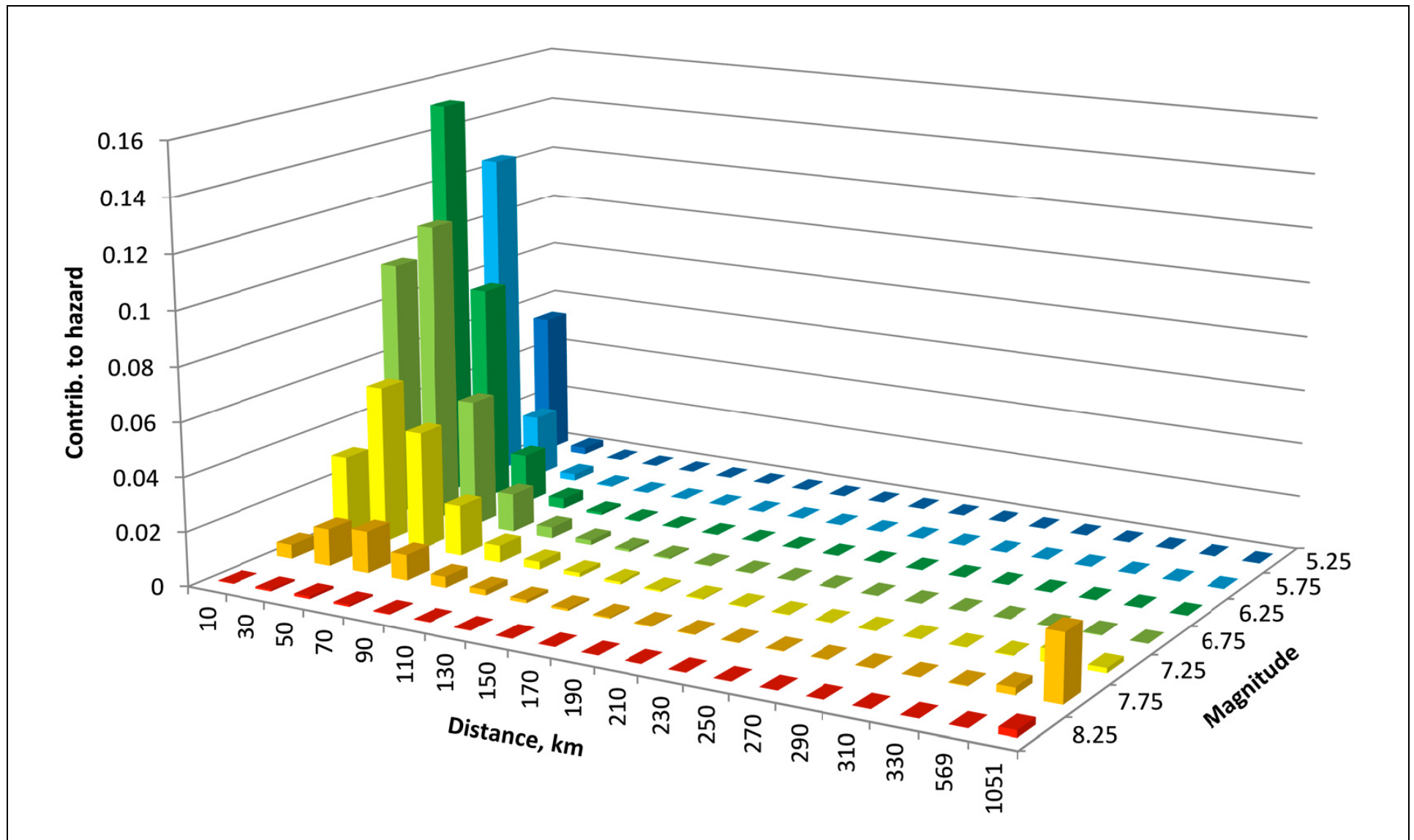
BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-251    Mean  $10^{-4}$  Deaggregation Plot for 5 and 10 Hz (HF)  
NAPS ESP VAR 2.0-4



BASIS: NEW

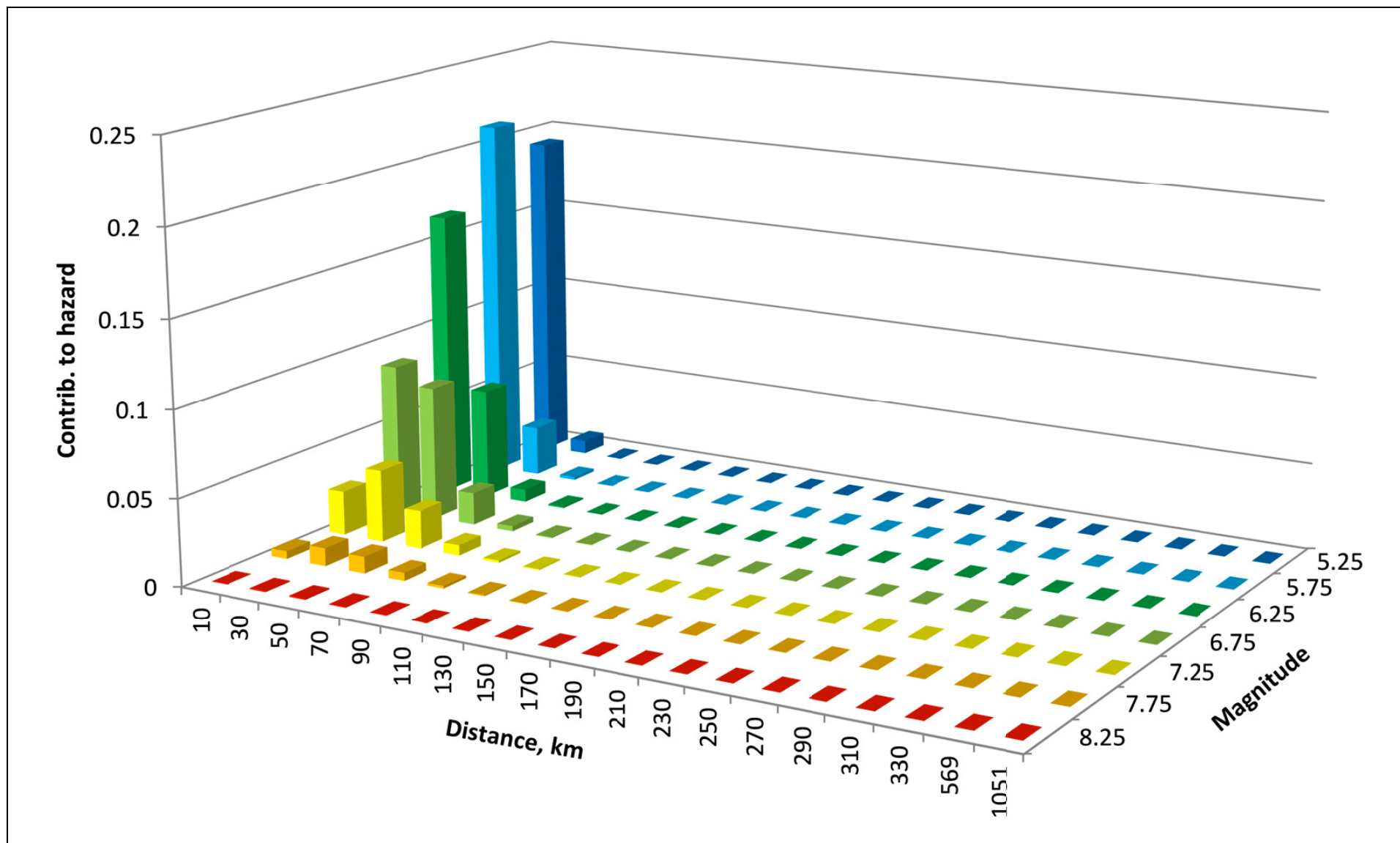
NAPS COL 2.0-27-A    Figure 2.5.2-252    Mean  $10^{-5}$  Deaggregation Plot for 1 and 2.5 Hz (LF)  
NAPS ESP VAR 2.0-4





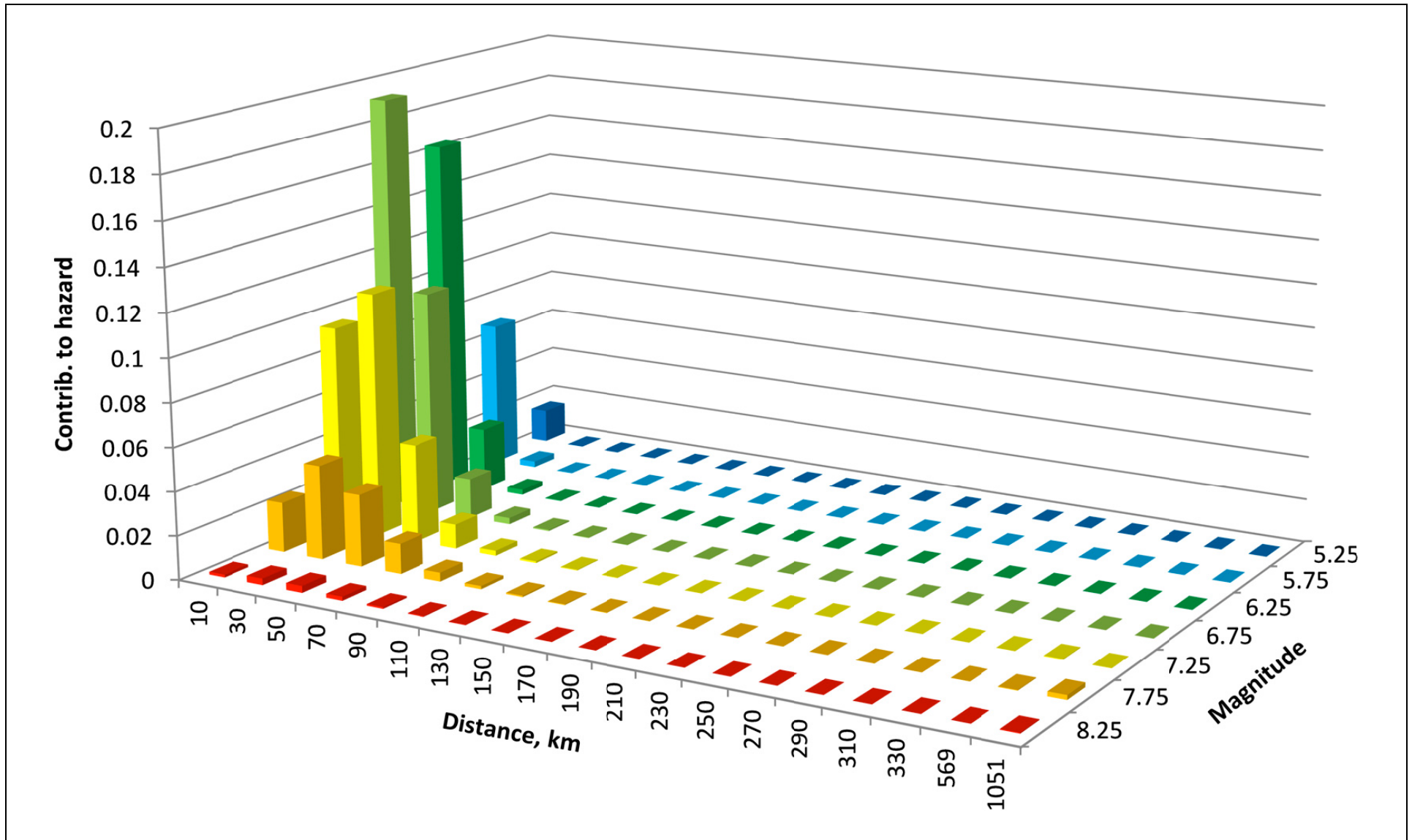
BASIS: NEW

NAPS COL 2.0-27-A    Figure 2.5.2-253    Mean  $10^{-5}$  Deaggregation Plot for 5 and 10 Hz (HF)  
NAPS ESP VAR 2.0-4



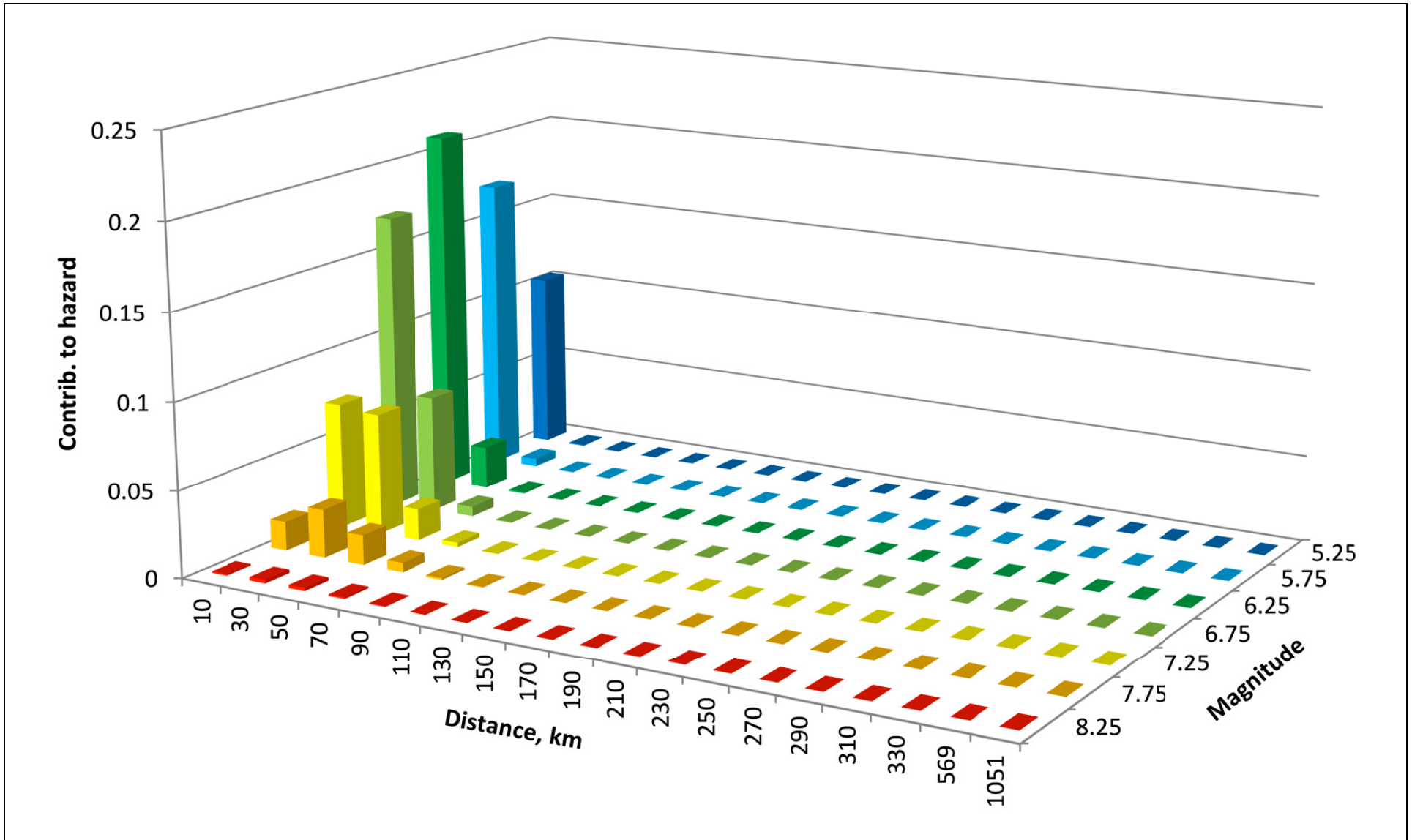
BASIS: NEW

NAPS COL 2.0-27-A Figure 2.5.2-254 Mean  $10^{-6}$  Deaggregation Plot for 1 and 2.5 Hz (LF)  
NAPS ESP VAR 2.0-4

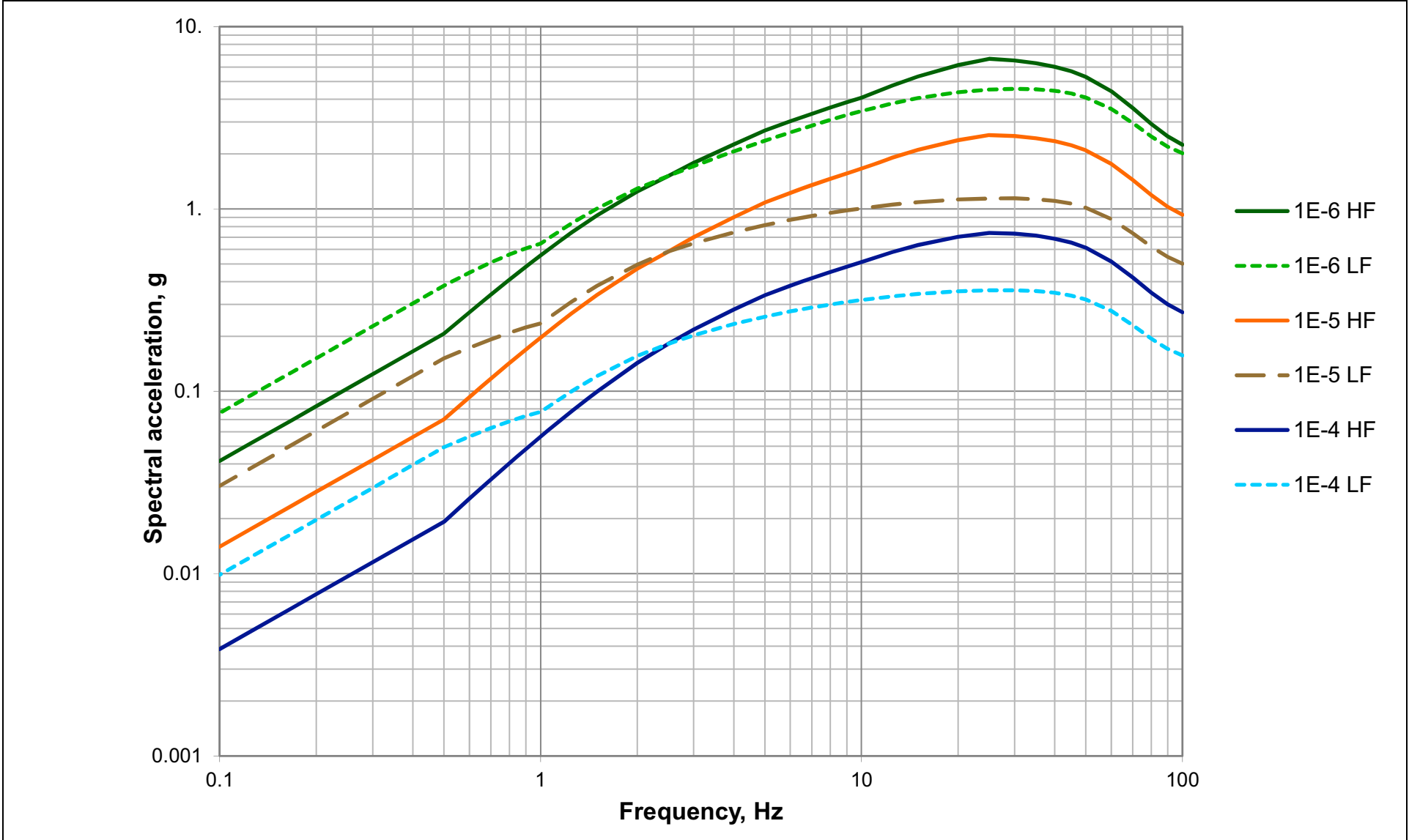


BASIS: NEW

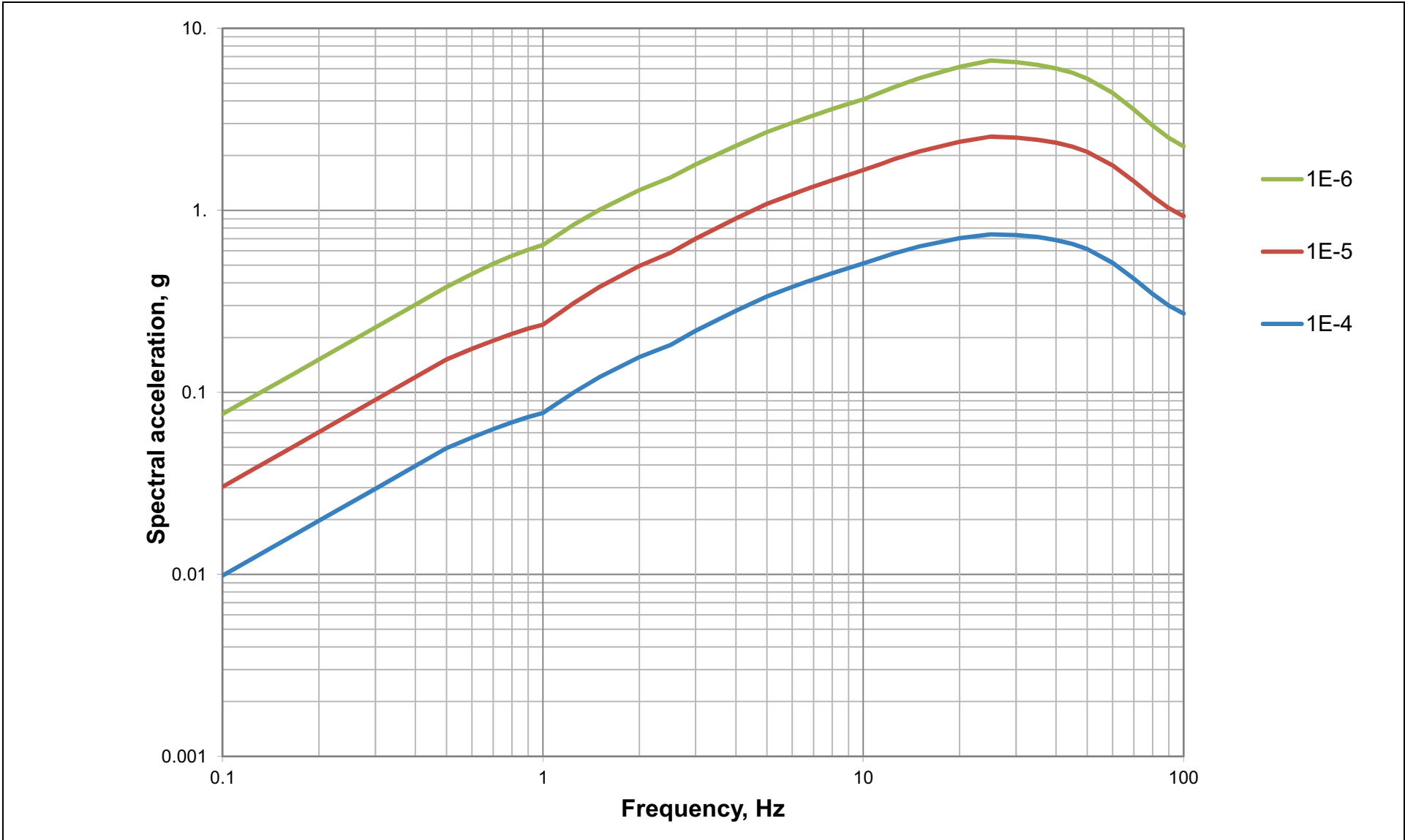
NAPS COL 2.0-27-A Figure 2.5.2-255 Mean  $10^{-6}$  Deaggregation Plot for 5 and 10 Hz (HF)  
NAPS ESP VAR 2.0-4



NAPS COL 2.0-27-A    Figure 2.5.2-256    High and Low Frequency Mean UHRS for MAFEs of  $10^{-4}$ ,  $10^{-5}$  and  $10^{-6}$   
NAPS ESP VAR 2.0-4

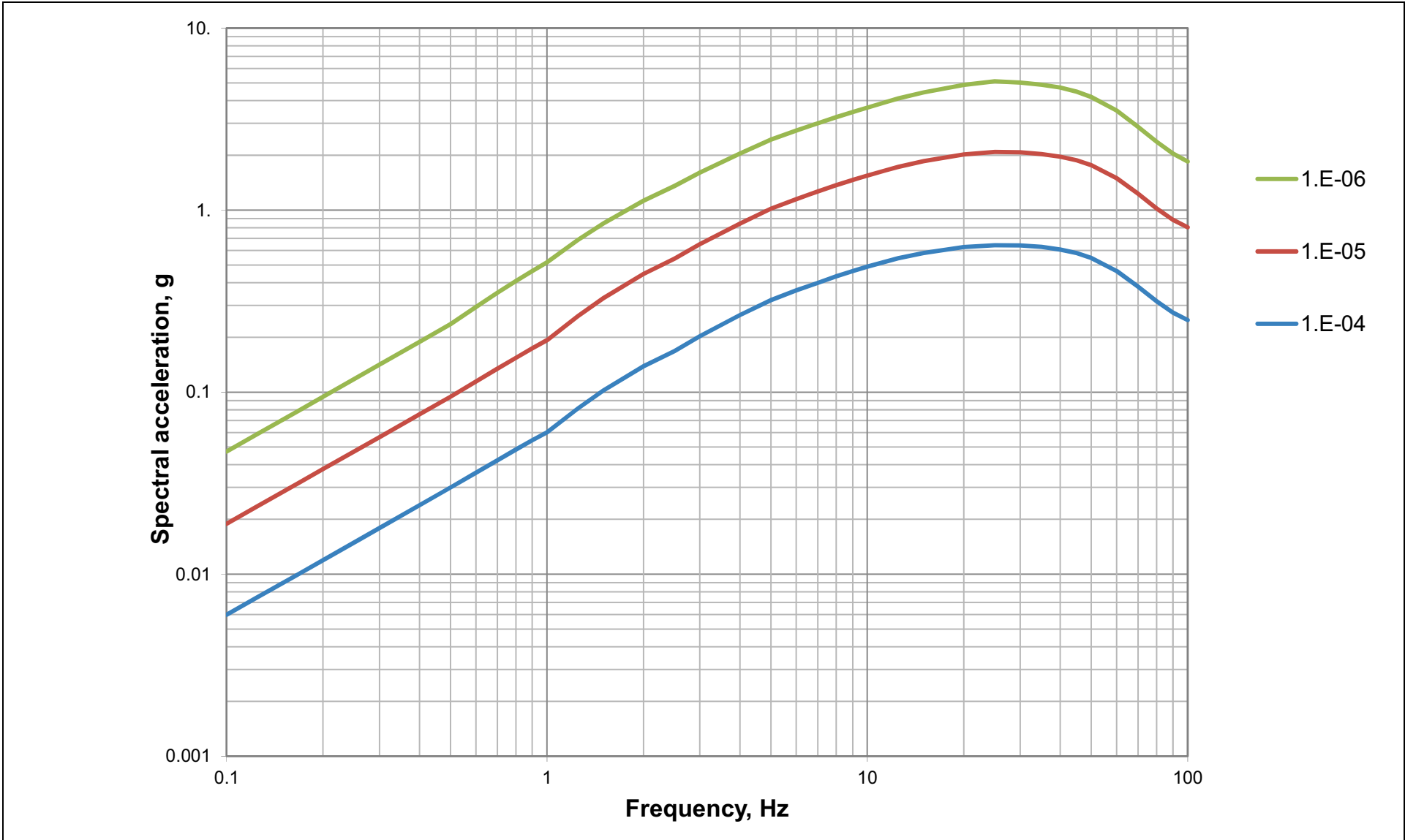


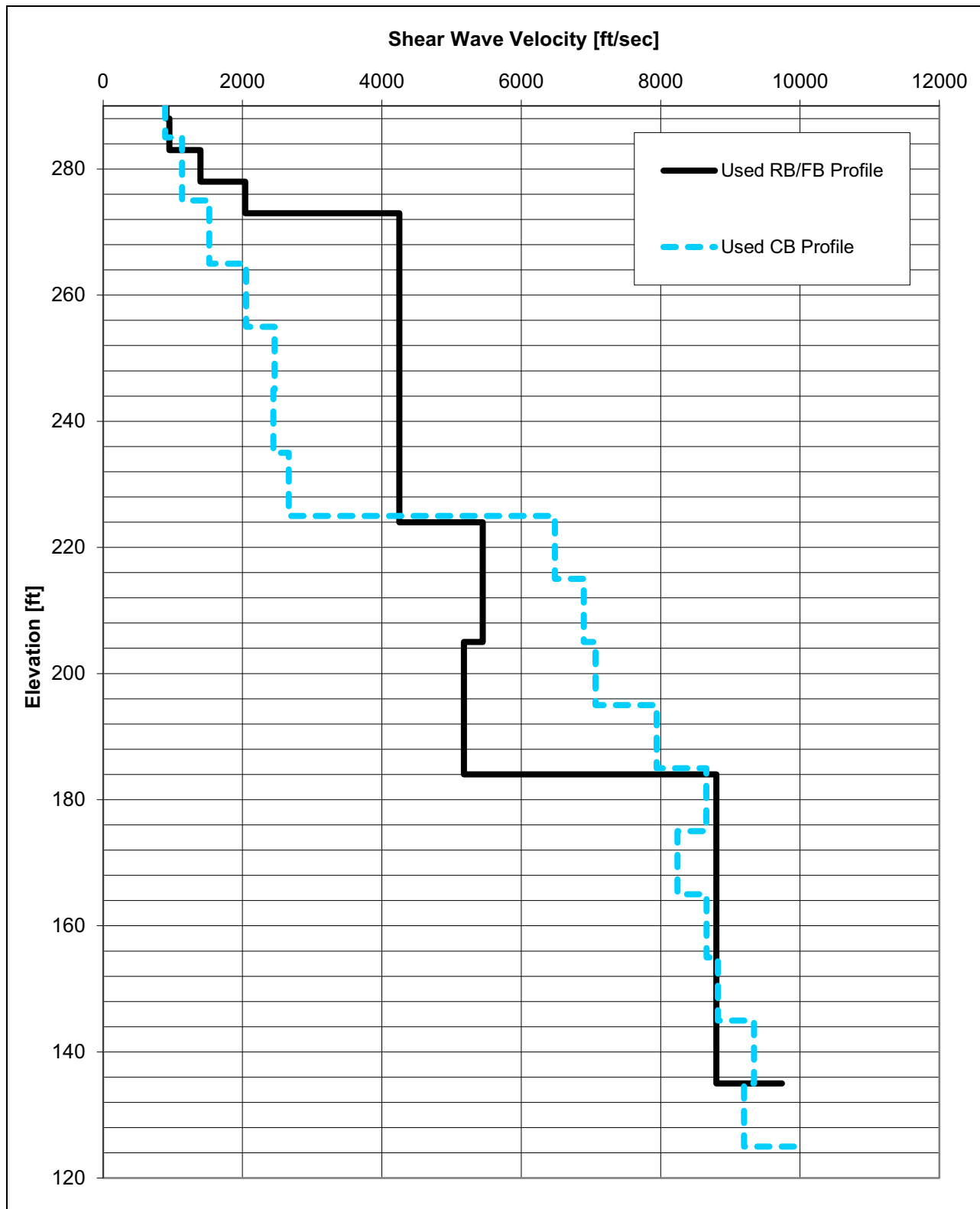
NAPS COL 2.0-27-A    **Figure 2.5.2-257**    Mean Rock UHRS for MAFEs of  $10^{-4}$ ,  $10^{-5}$  and  $10^{-6}$   
NAPS ESP VAR 2.0-4

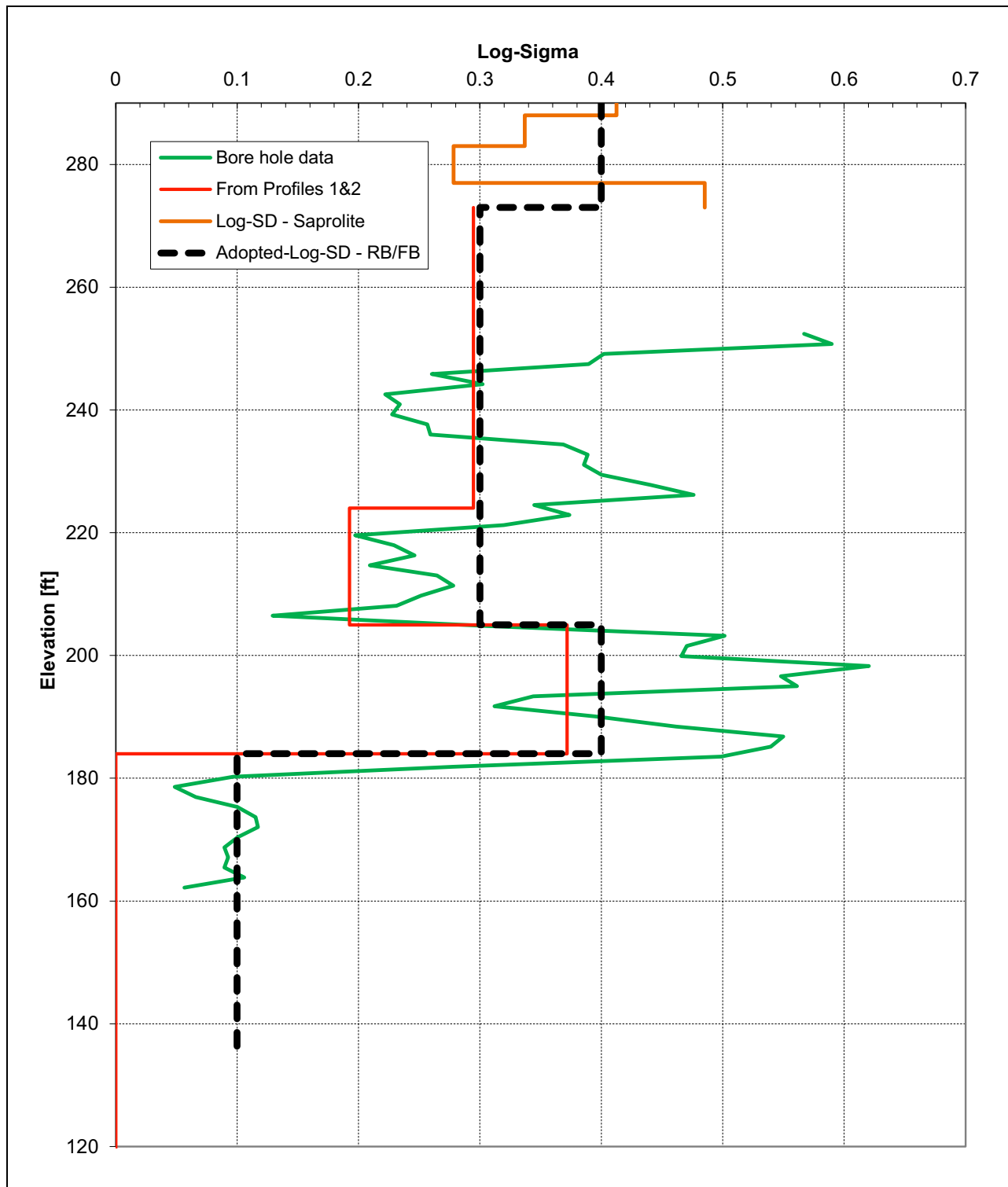


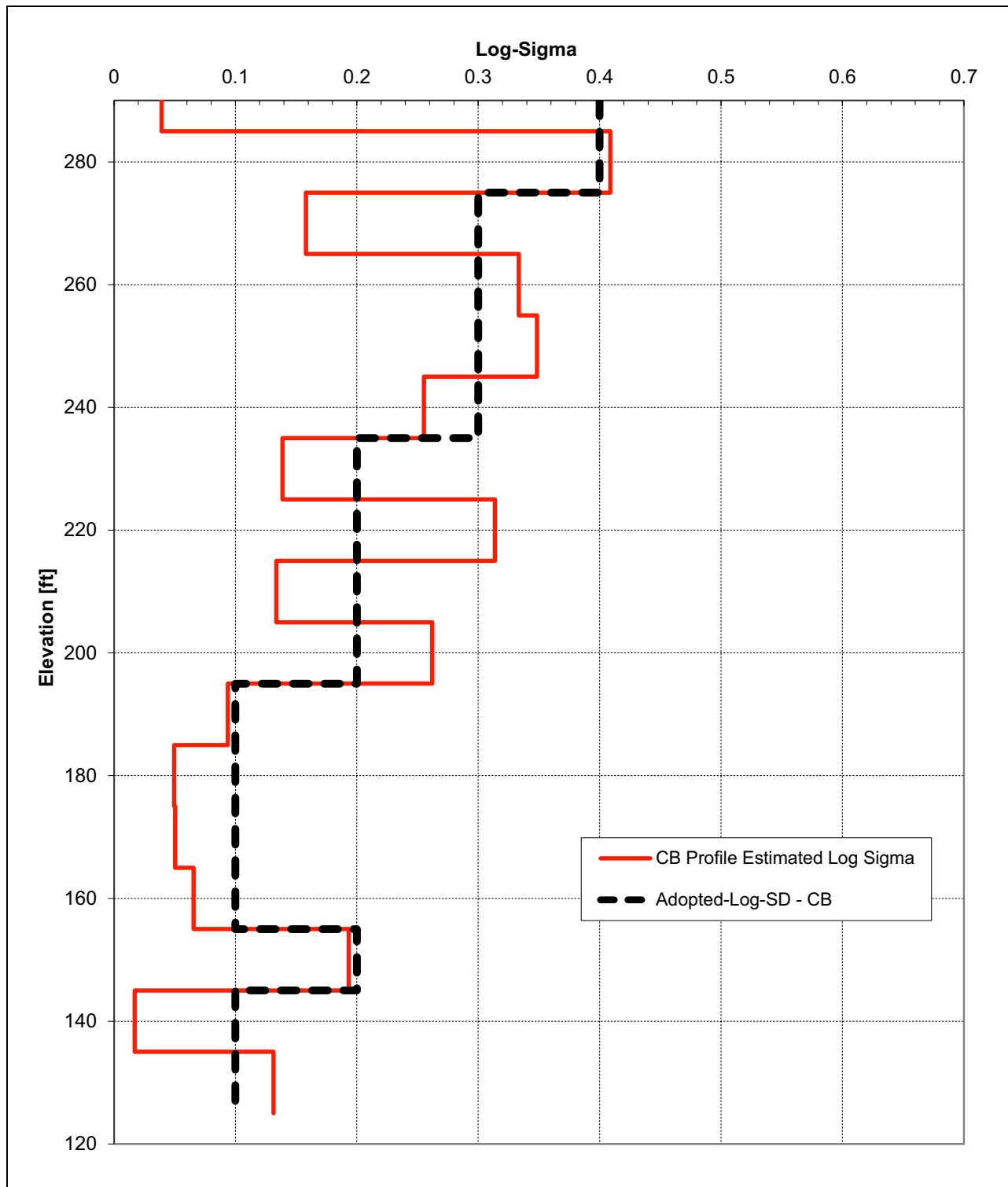


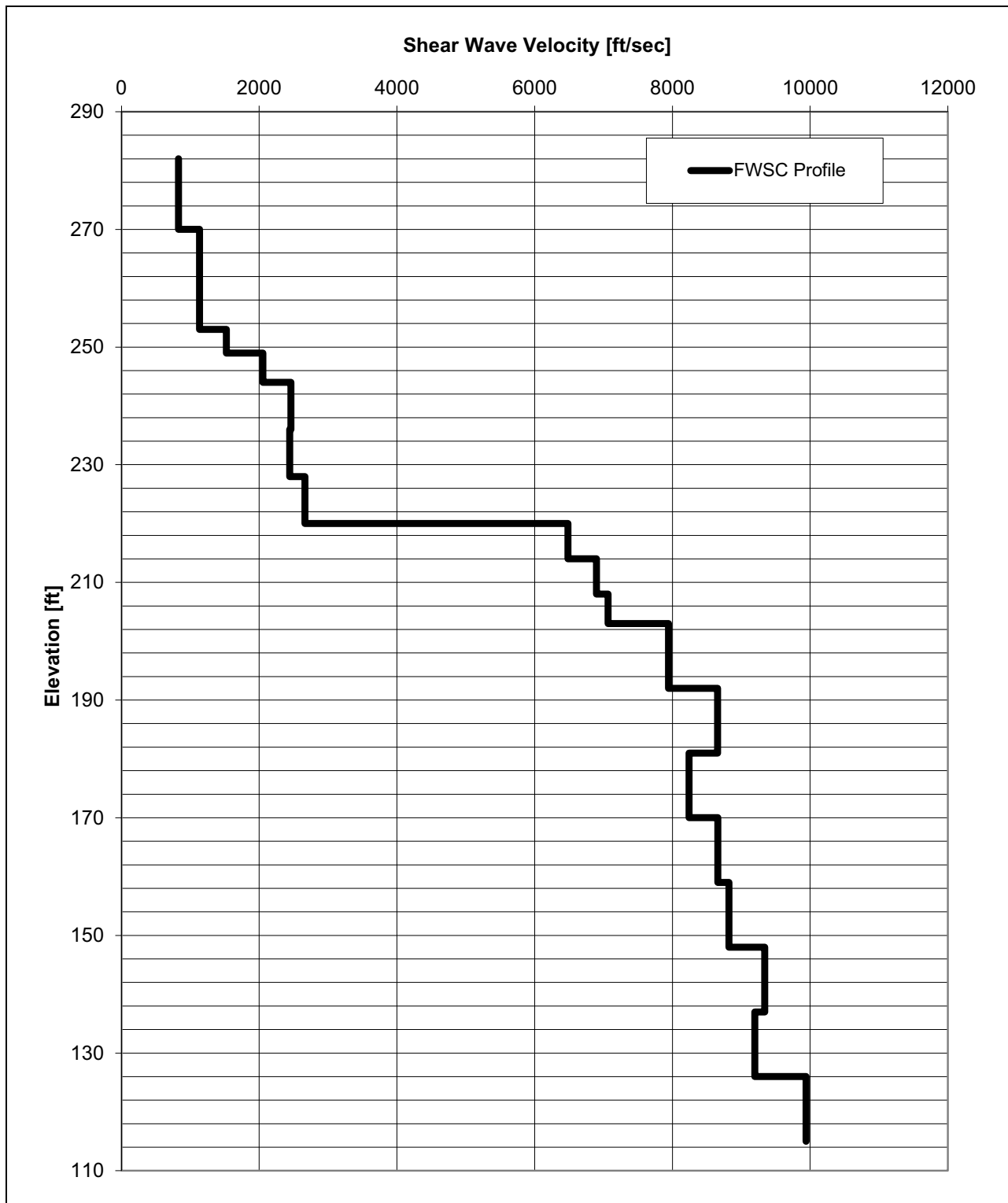
NAPS COL 2.0-27-A    Figure 2.5.2-258    Median Rock UHRS for MAFEs of  $10^{-4}$ ,  $10^{-5}$  and  $10^{-6}$   
NAPS ESP VAR 2.0-4



**NAPS COL 2.0-27-A    Figure 2.5.2-259    Best Estimate Shear-Wave Velocity Profile for RB/FB and CB Soil Columns**

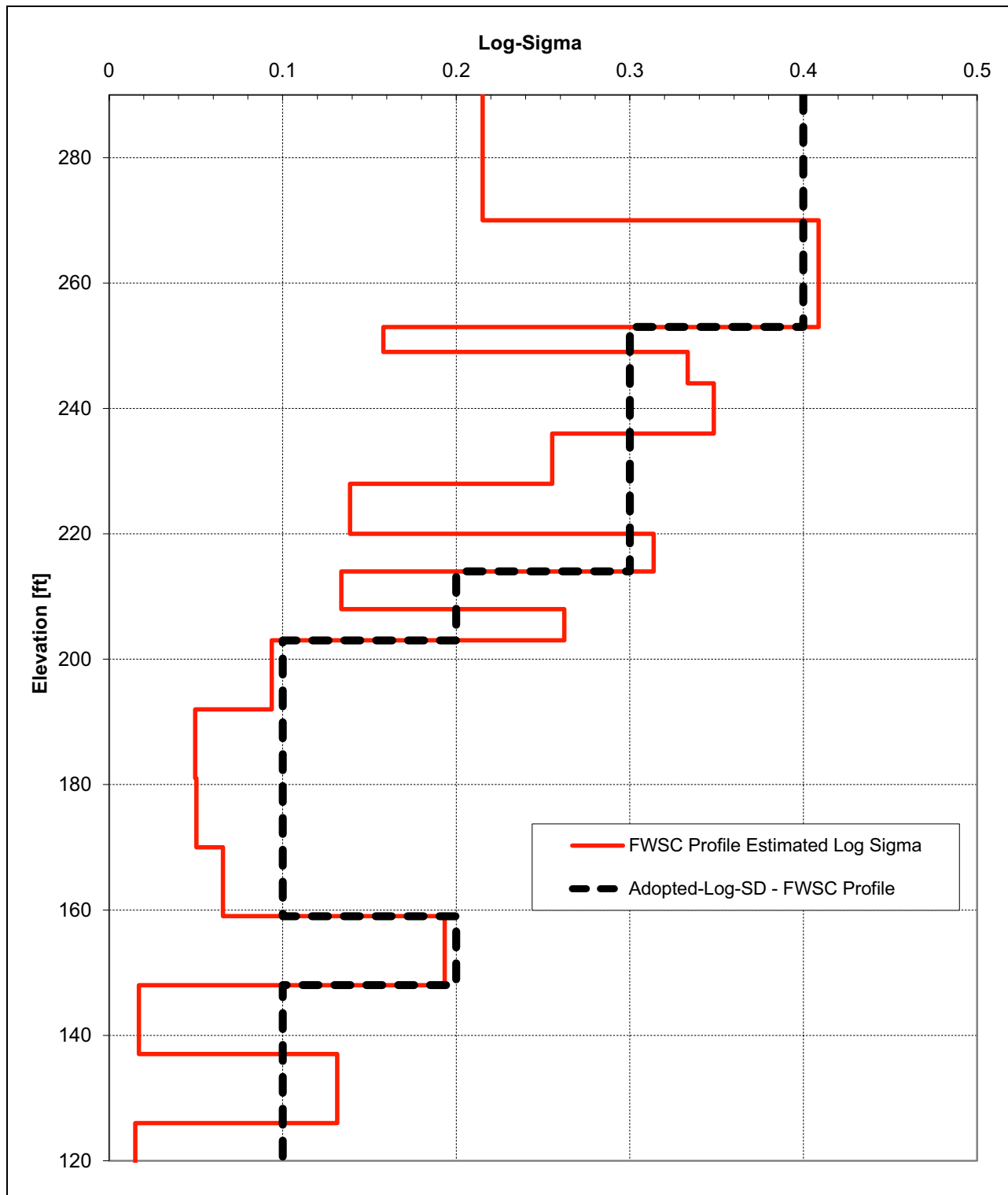
**NAPS COL 2.0-27-A    Figure 2.5.2-260    Logarithmic Standard Deviation for the RB/FB  
Shear-Wave Velocity Profile**

**NAPS COL 2.0-27-A    Figure 2.5.2-261    Logarithmic Standard Deviation for the CB  
Shear-Wave Velocity Profile**

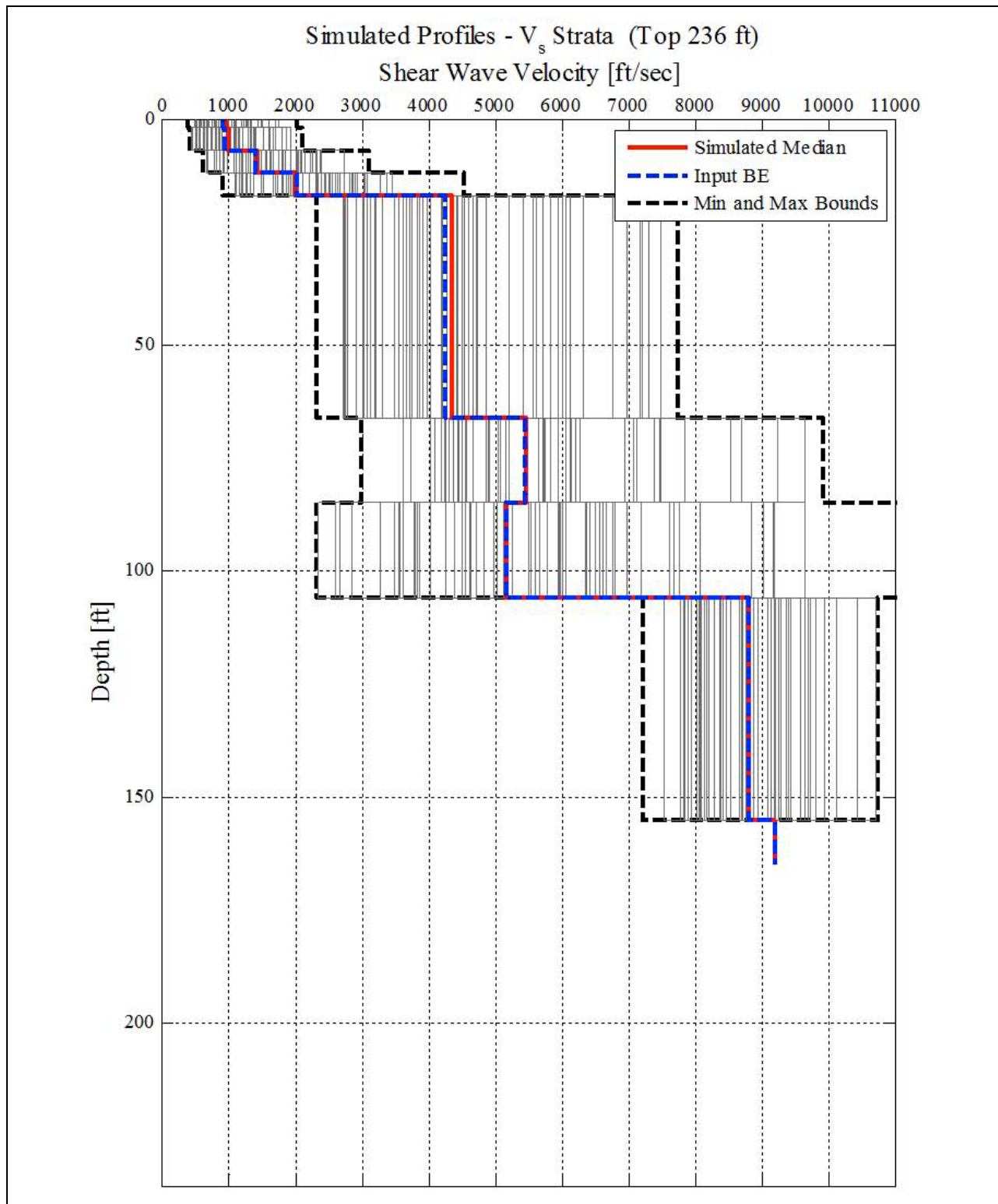
**NAPS COL 2.0-27-A    Figure 2.5.2-262    Best Estimate Shear-Wave Velocity Profile for FWSC Soil Column**



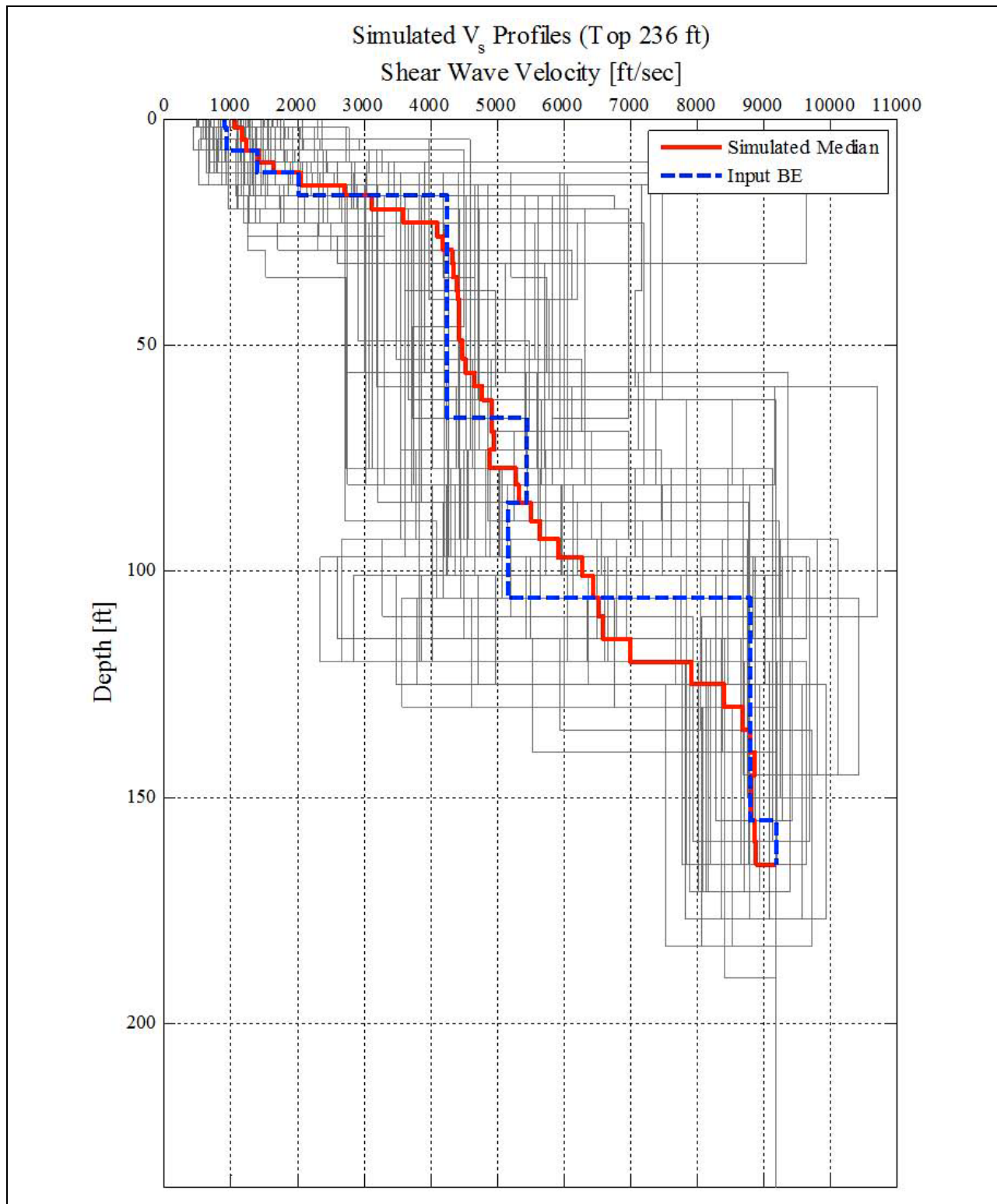
NAPS COL 2.0-27-A Figure 2.5.2-263 Logarithmic Standard Deviation for the FWSC Shear-Wave Velocity Profile

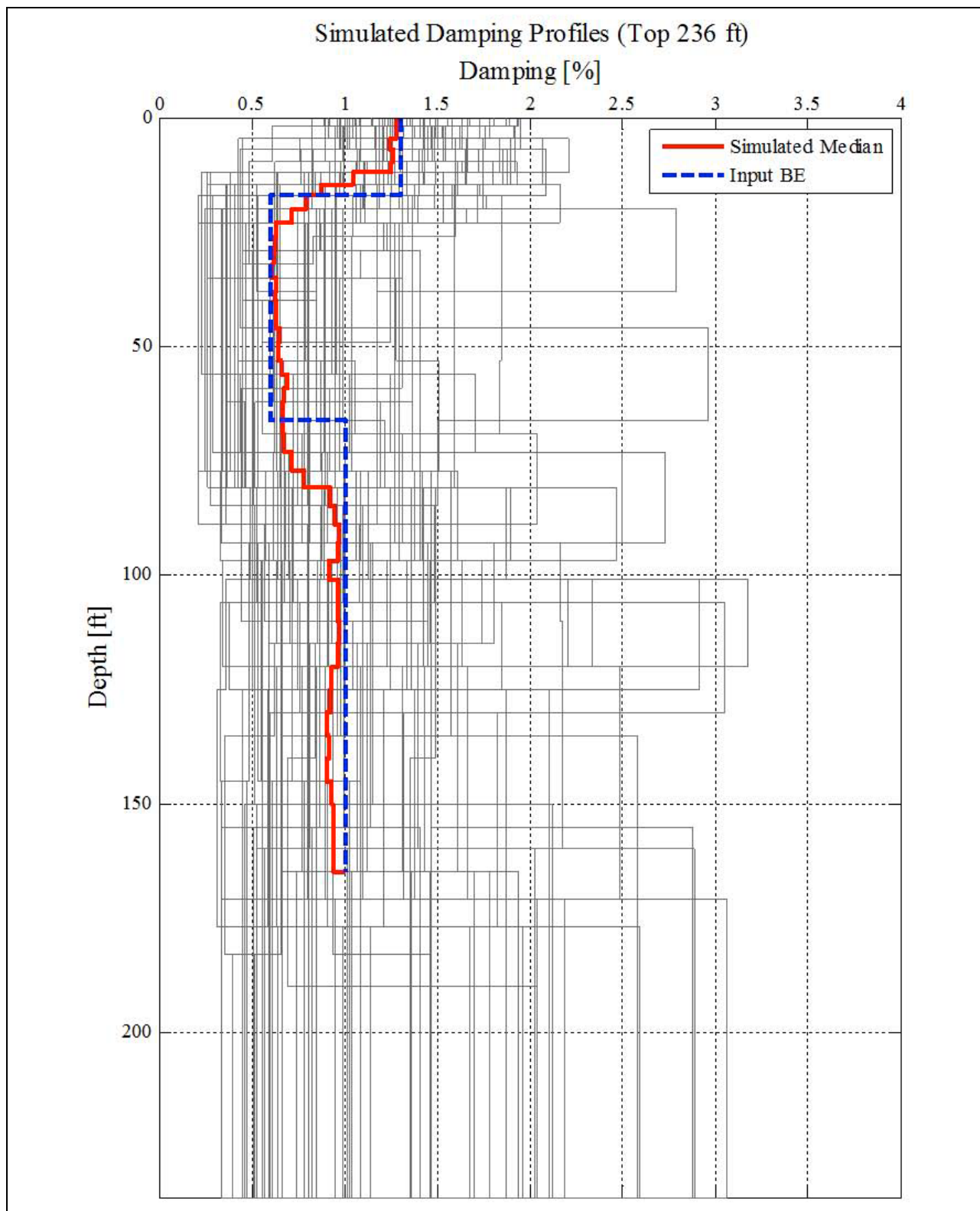


NAPS COL 2.0-27-A     **Figure 2.5.2-264 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for RB/FB Soil Column Not Including Thickness Variation (Half-Space at  $V_s = 9,200$  ft/s)**

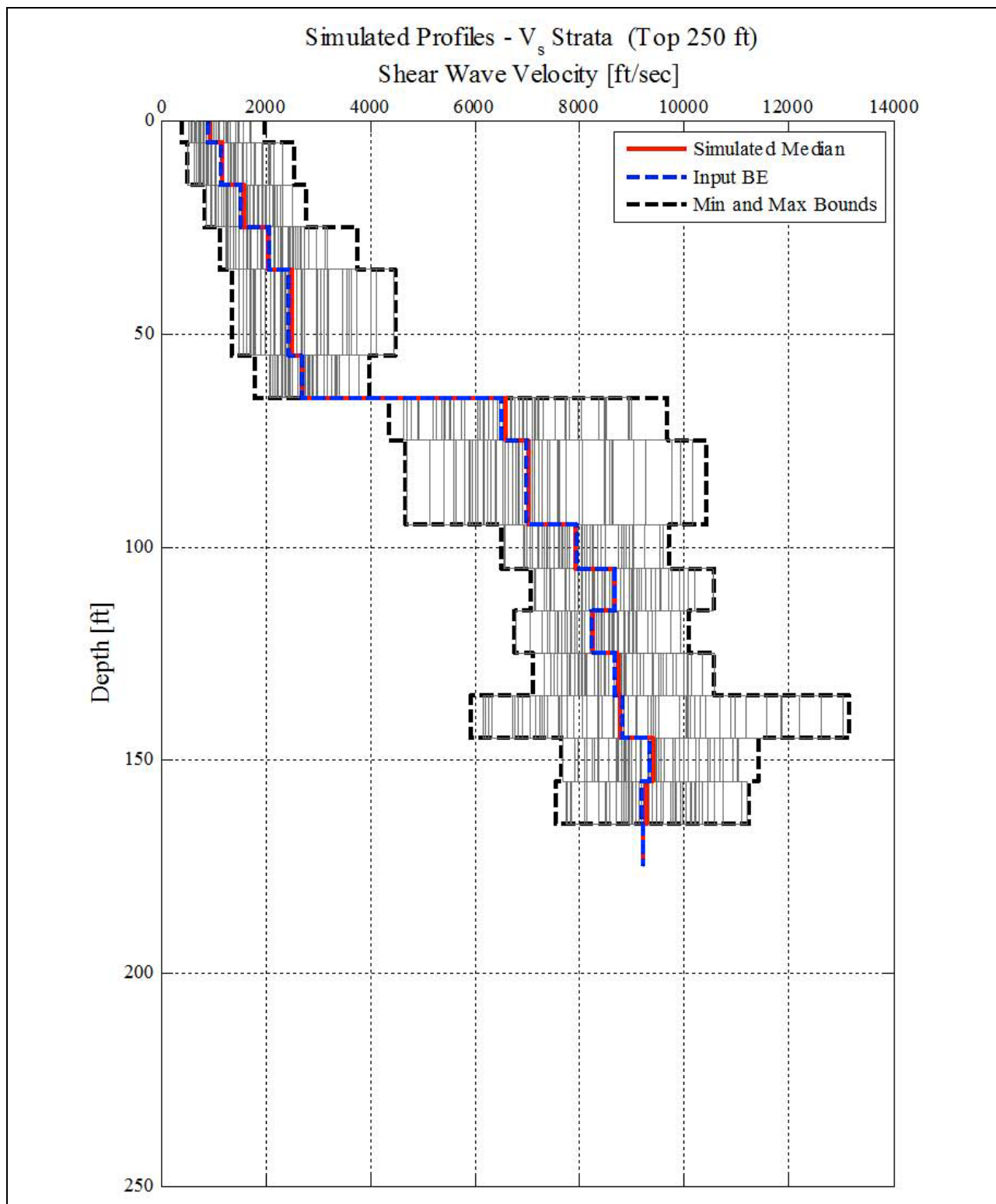


NAPS COL 2.0-27-A      **Figure 2.5.2-265 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for RB/FB Soil Column Including Thickness Variation (Half-Space at  $V_S = 9,200$  ft/s)**

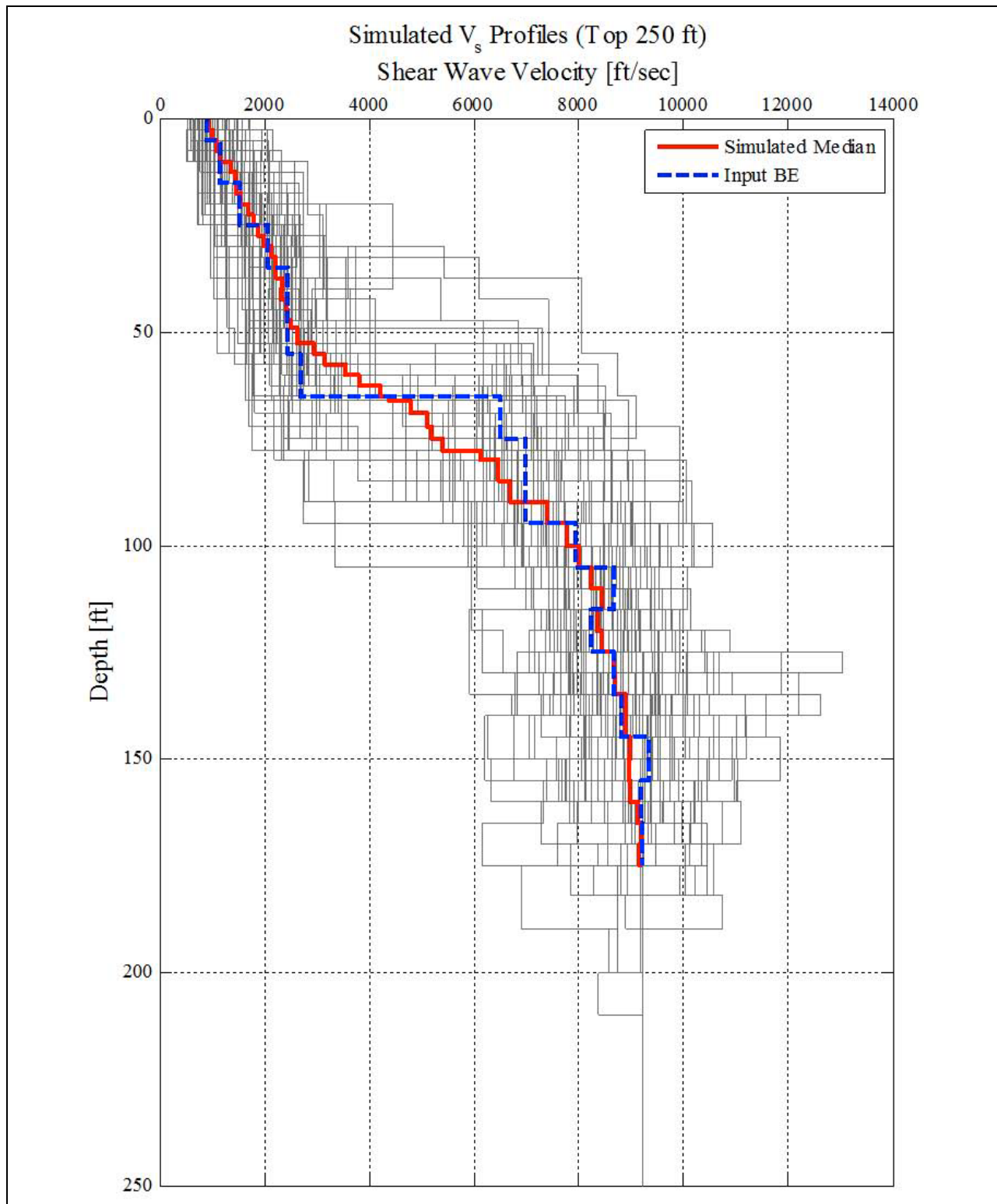


NAPS COL 2.0-27-A    **Figure 2.5.2-266 Low-Strain Damping Ratio for 60 Simulated Profiles for RB/FB Soil Column**

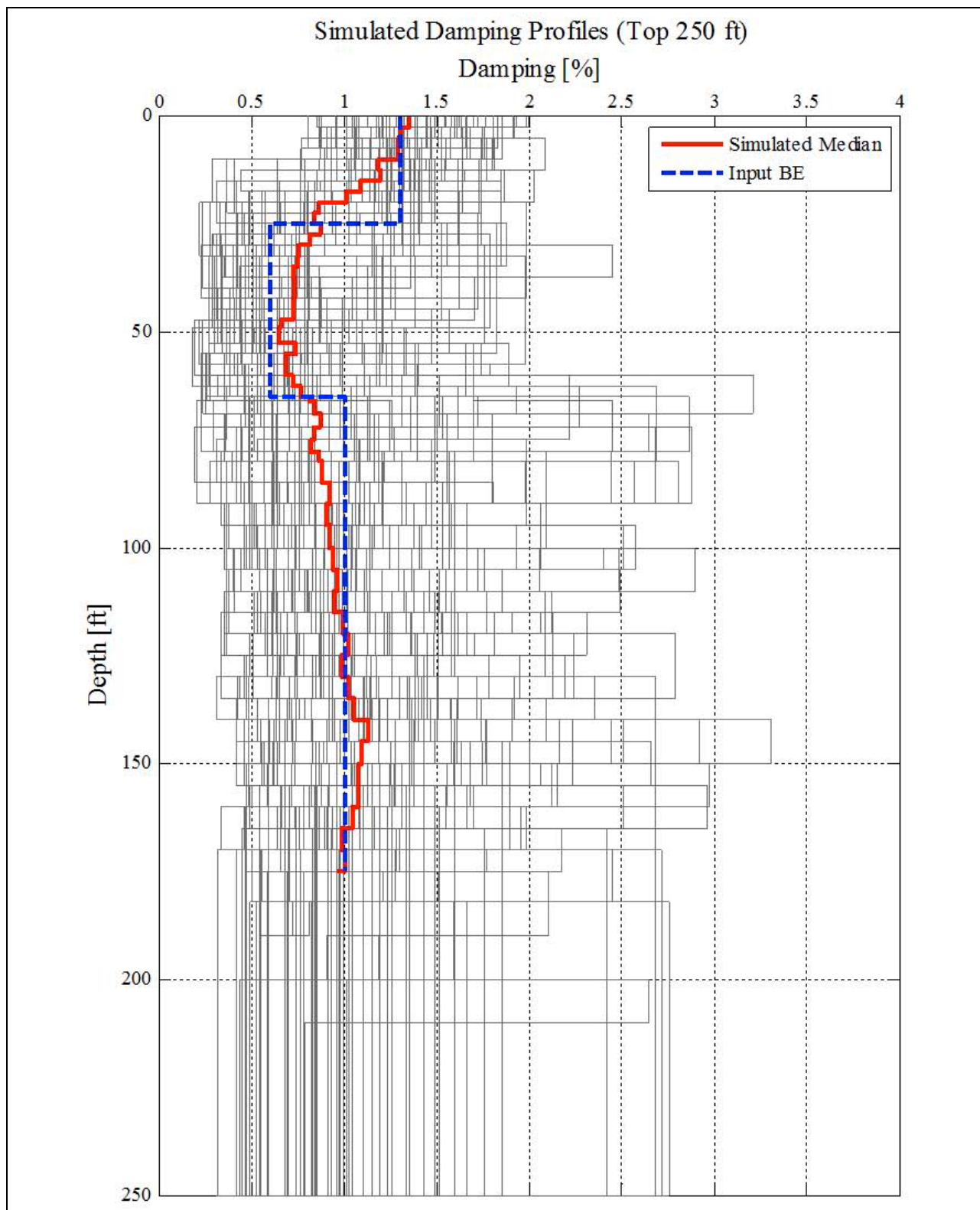
NAPS COL 2.0-27-A    **Figure 2.5.2-267 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for CB Soil Column Not Including Thickness Variation (Half-Space at  $V_s = 9,200$  ft/s)**



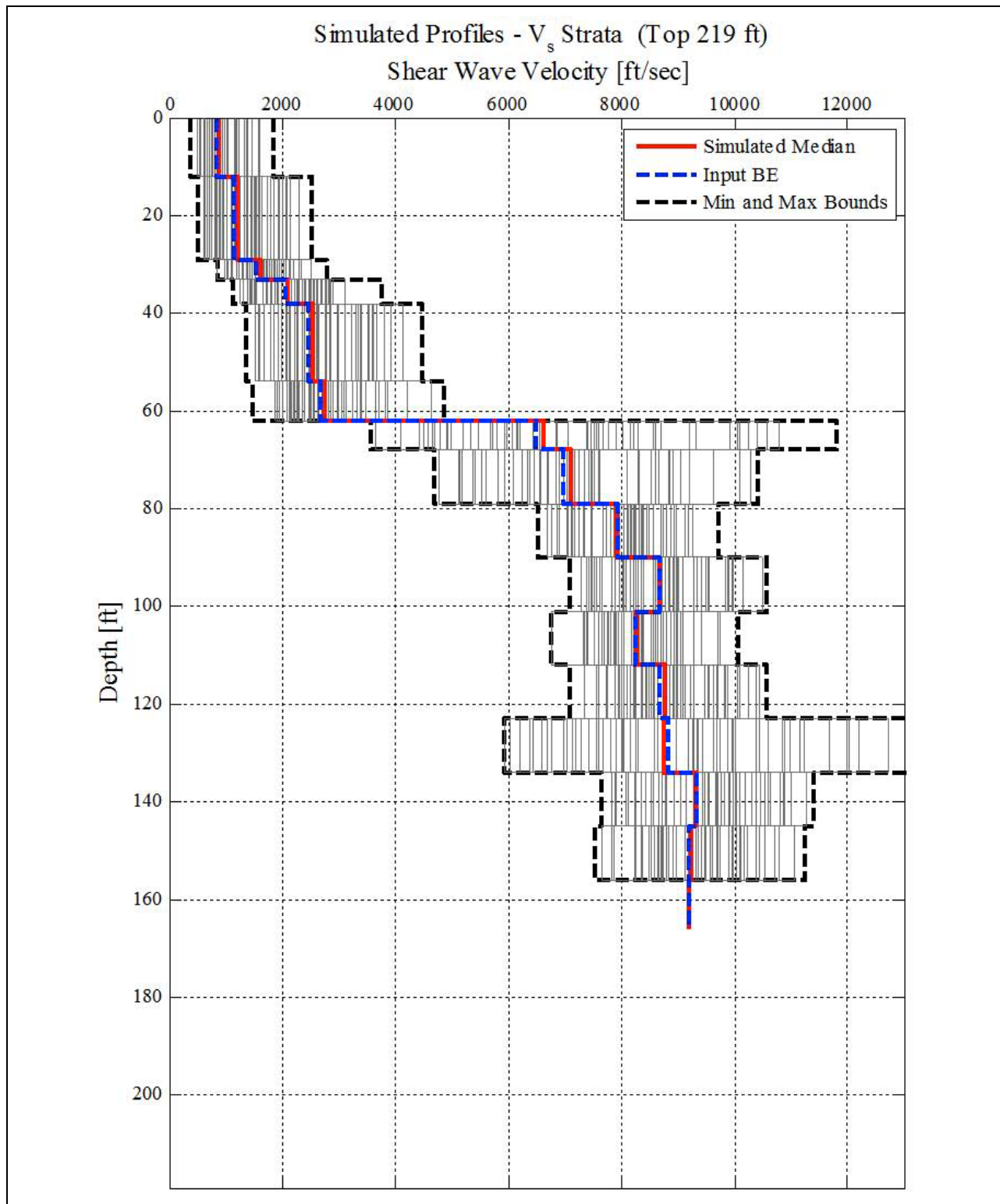
NAPS COL 2.0-27-A    **Figure 2.5.2-268 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for CB Soil Column Including Thickness Variation (Half-Space at  $V_S = 9,200$  ft/s)**



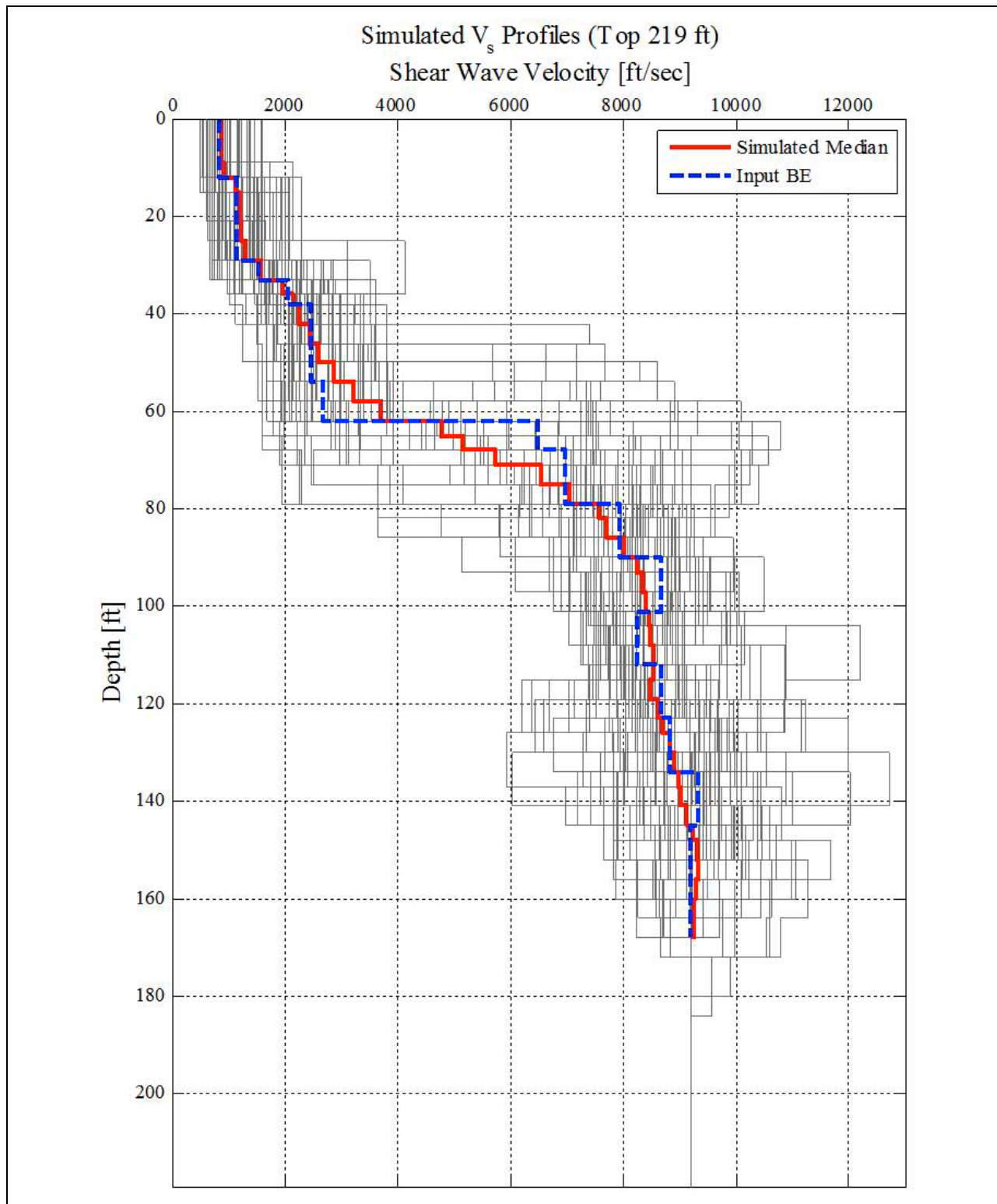


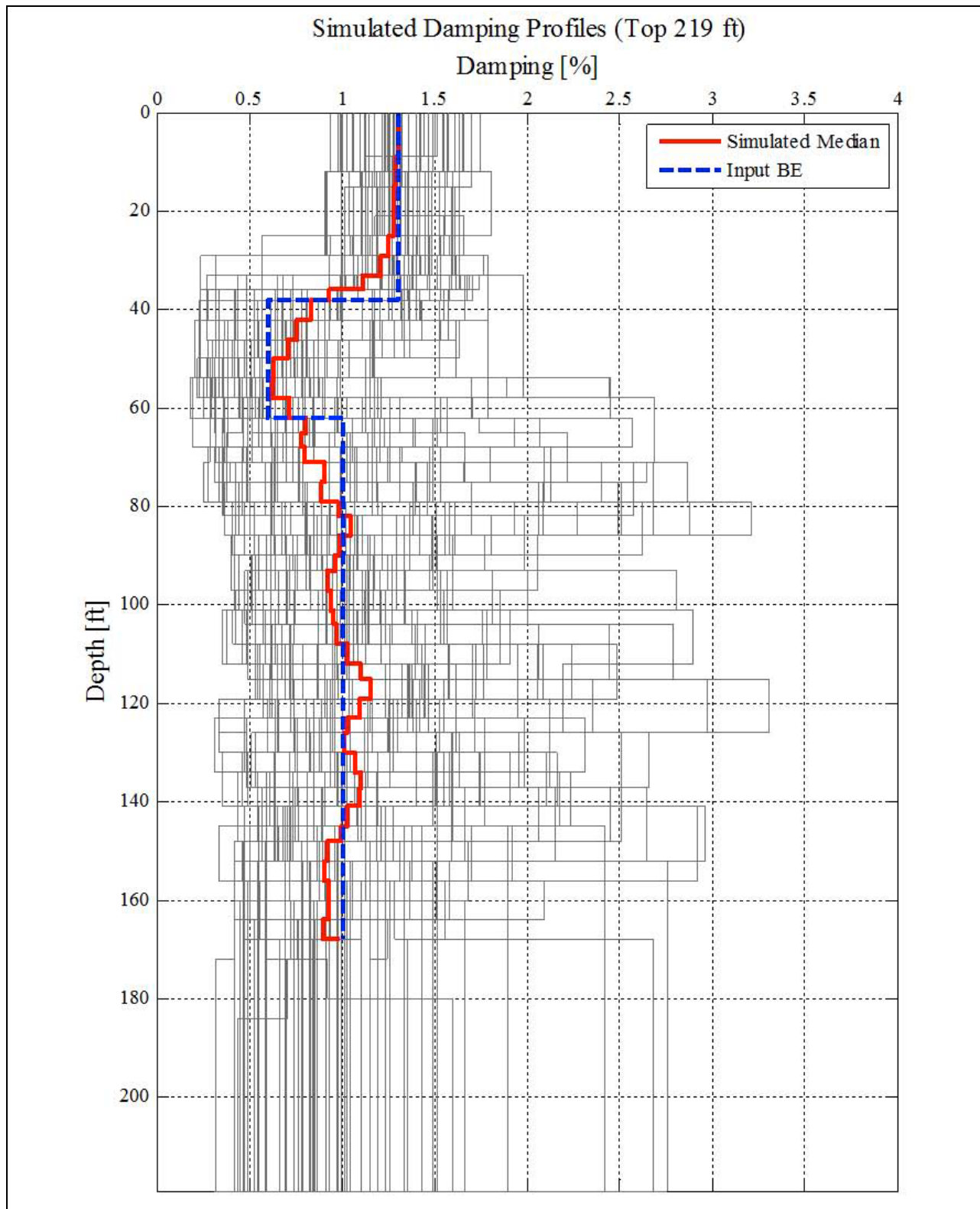
NAPS COL 2.0-27-A    **Figure 2.5.2-269 Low-Strain Damping Ratio for 60 Simulated Profiles for CB Soil Column**

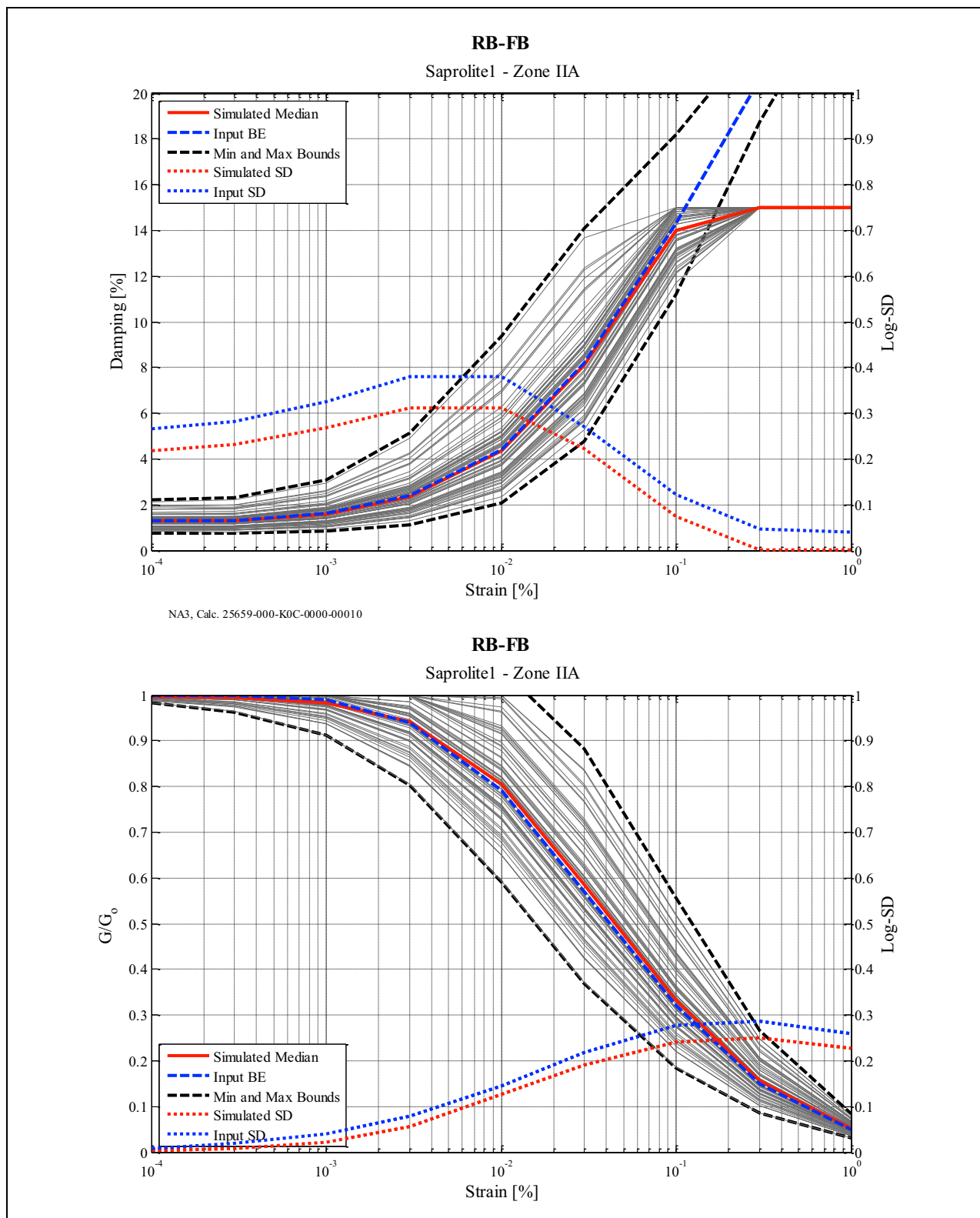
NAPS COL 2.0-27-A    **Figure 2.5.2-270 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for FWSC Soil Column Not Including Thickness Variation (Half-Space at  $V_s = 9,200$  ft/s)**



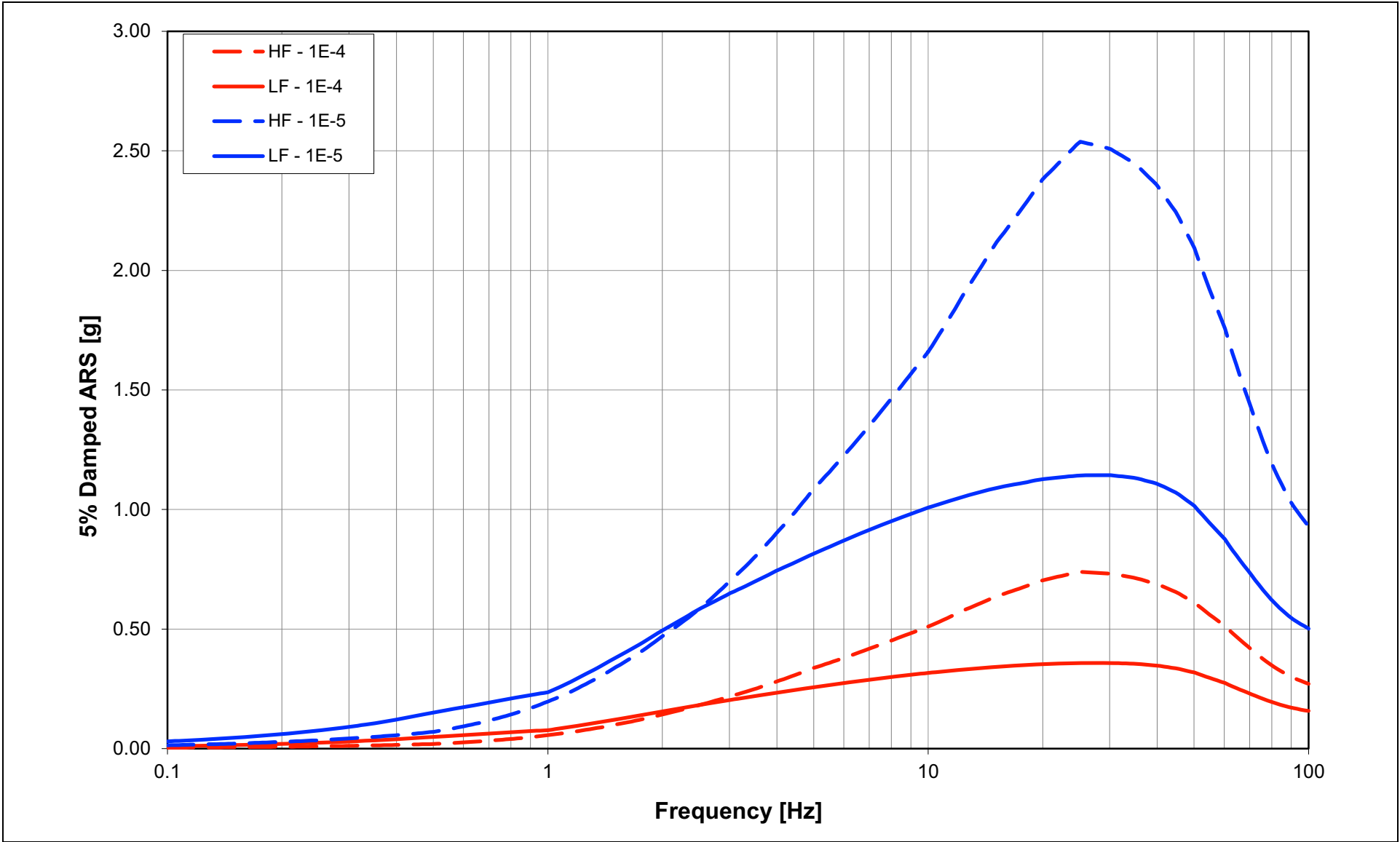
NAPS COL 2.0-27-A    **Figure 2.5.2-271 Low-Strain Shear-Wave Velocity for 60 Simulated Profiles for FWSC Soil Column Including Thickness Variation (Half-Space at  $V_S = 9,200$  ft/s)**



NAPS COL 2.0-27-A      **Figure 2.5.2-272 Low-Strain Damping Ratio for 60 Simulated Profiles for FWSC Soil Column**

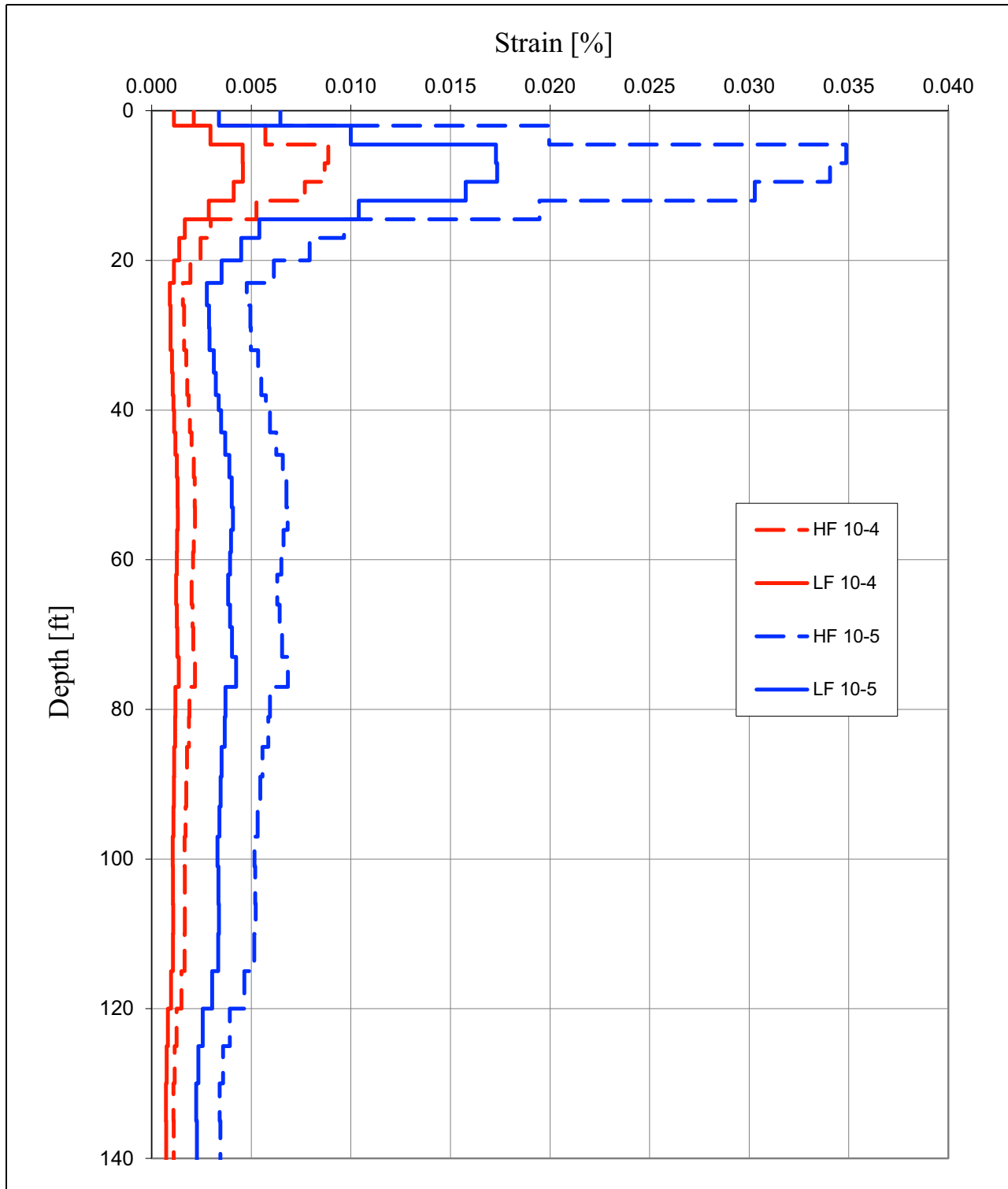
NAPS COL 2.0-27-A    **Figure 2.5.2-273**    **Strain-Dependent Property Curves for 60 Simulated Profiles for Saprolite1 Stratum of RB/FB Soil Column**

NAPS COL 2.0-27-A    Figure 2.5.2-274    High Frequency (HF) and Low Frequency (LF) Hard Rock Input Ground Motion Spectra  
NAPS ESP VAR 2.0-4





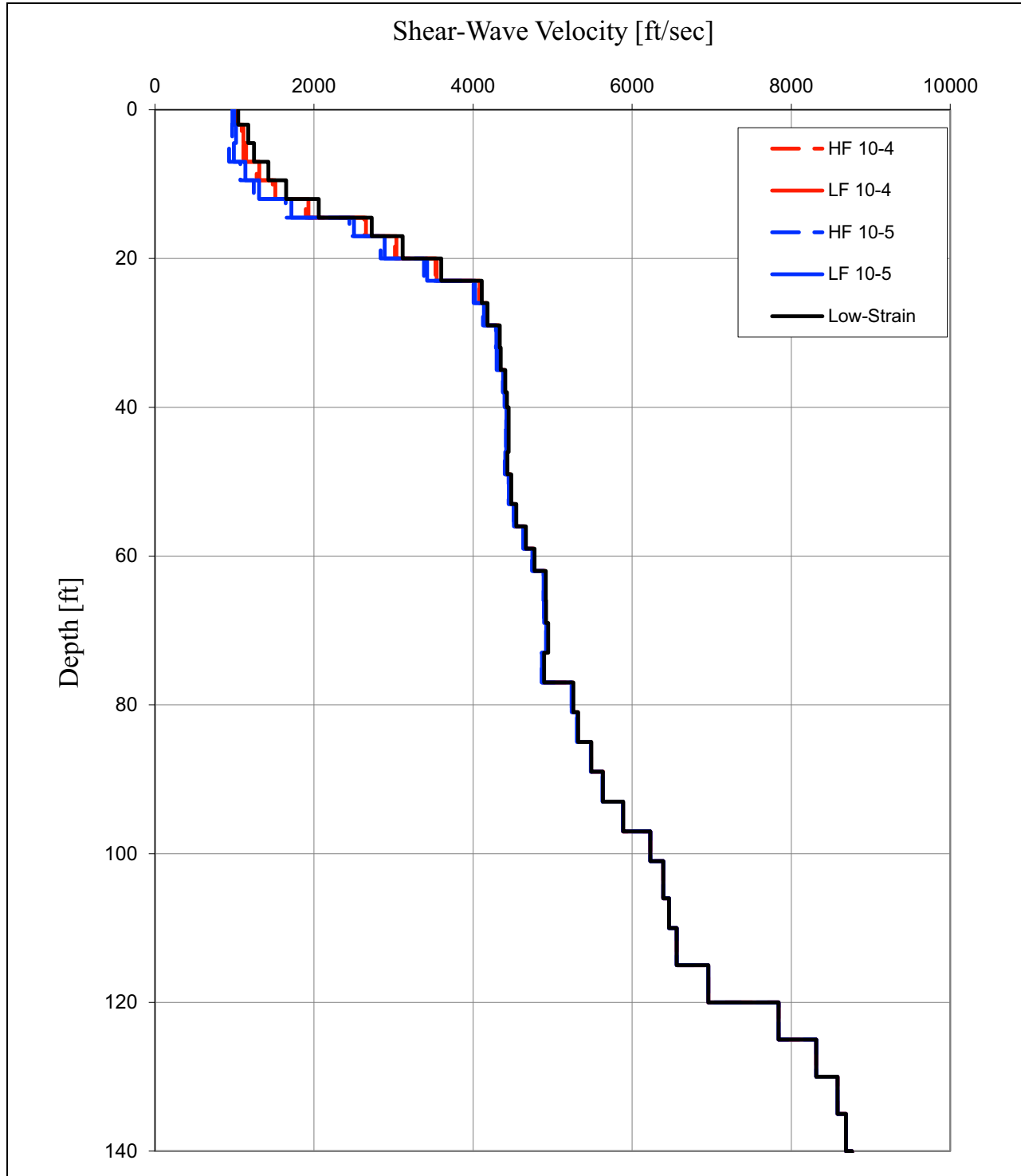
NAPS COL 2.0-27-A    **Figure 2.5.2-275**    **Log-Mean Strain Profiles in RB/FB Soil Column Subject to  $10^{-4}$  and  $10^{-5}$  HF and LF Input Hard Rock Ground Motions**



NOTE: Depth of zero corresponds to the finished grade at Elevation 290 ft.

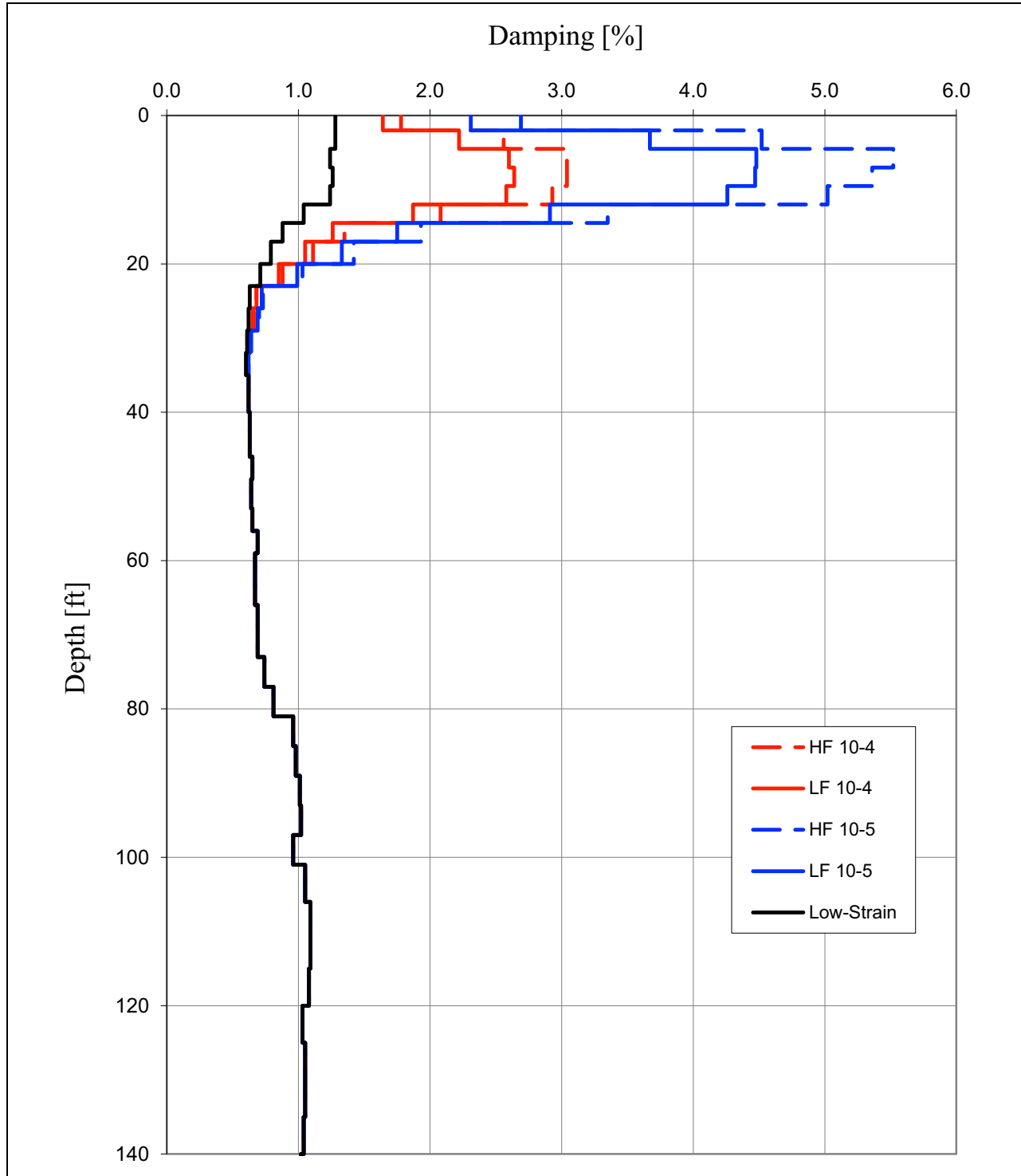


NAPS COL 2.0-27-A    **Figure 2.5.2-276 Log-Mean Low Strain and Strain-Compatible Shear Wave Velocity Profiles for RB/FB Soil Column Subject to  $10^{-4}$  and  $10^{-5}$  HF and LF Input Hard Rock Ground Motions**



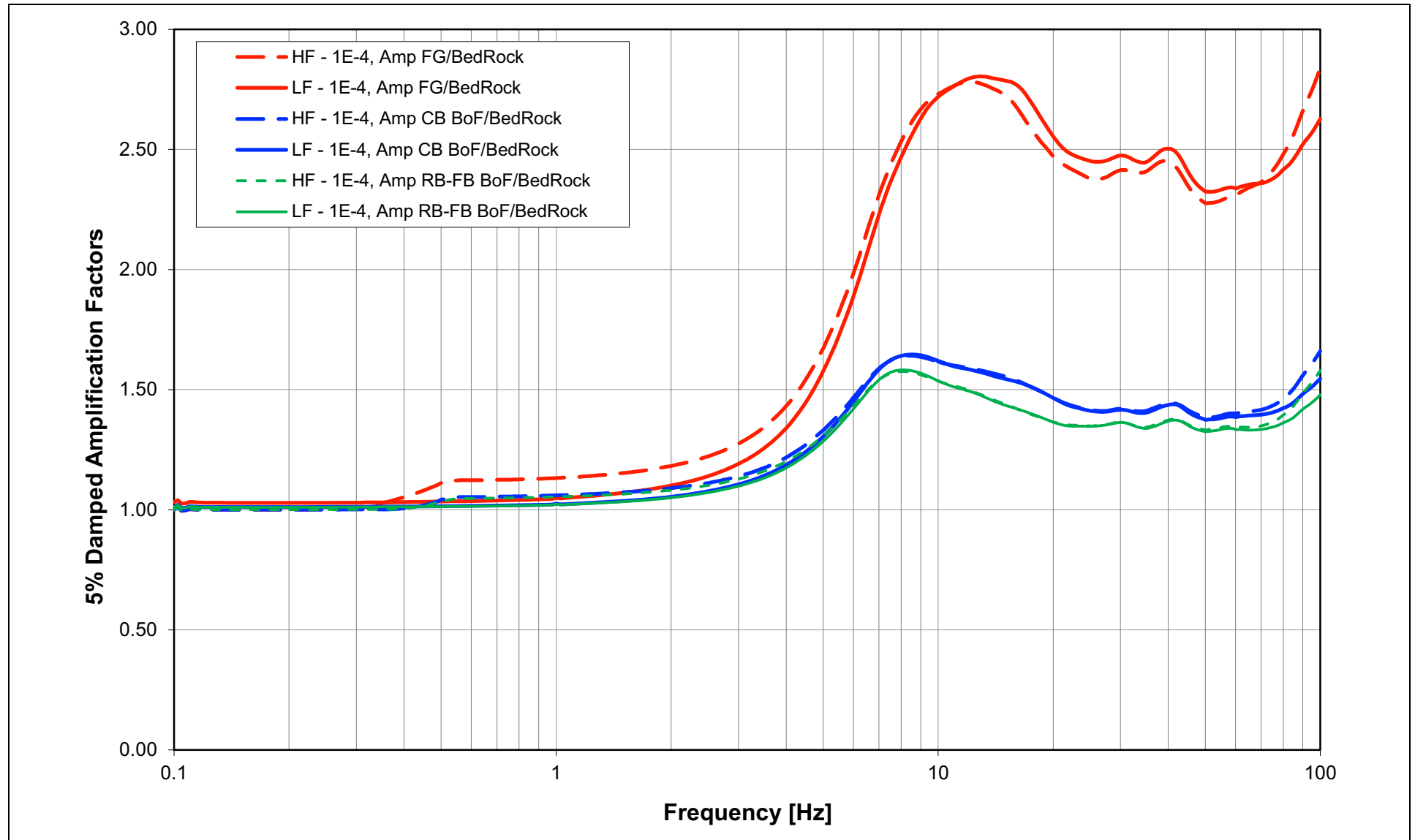
NOTE: Depth of zero corresponds to the finished grade at Elevation 290 ft.

NAPS COL 2.0-27-A      **Figure 2.5.2-277 Log-Mean Low Strain and Strain-Compatible Damping Profiles for RB/FB Soil Column Subject to  $10^{-4}$  and  $10^{-5}$  HF and LF Input Hard Rock Ground Motions**

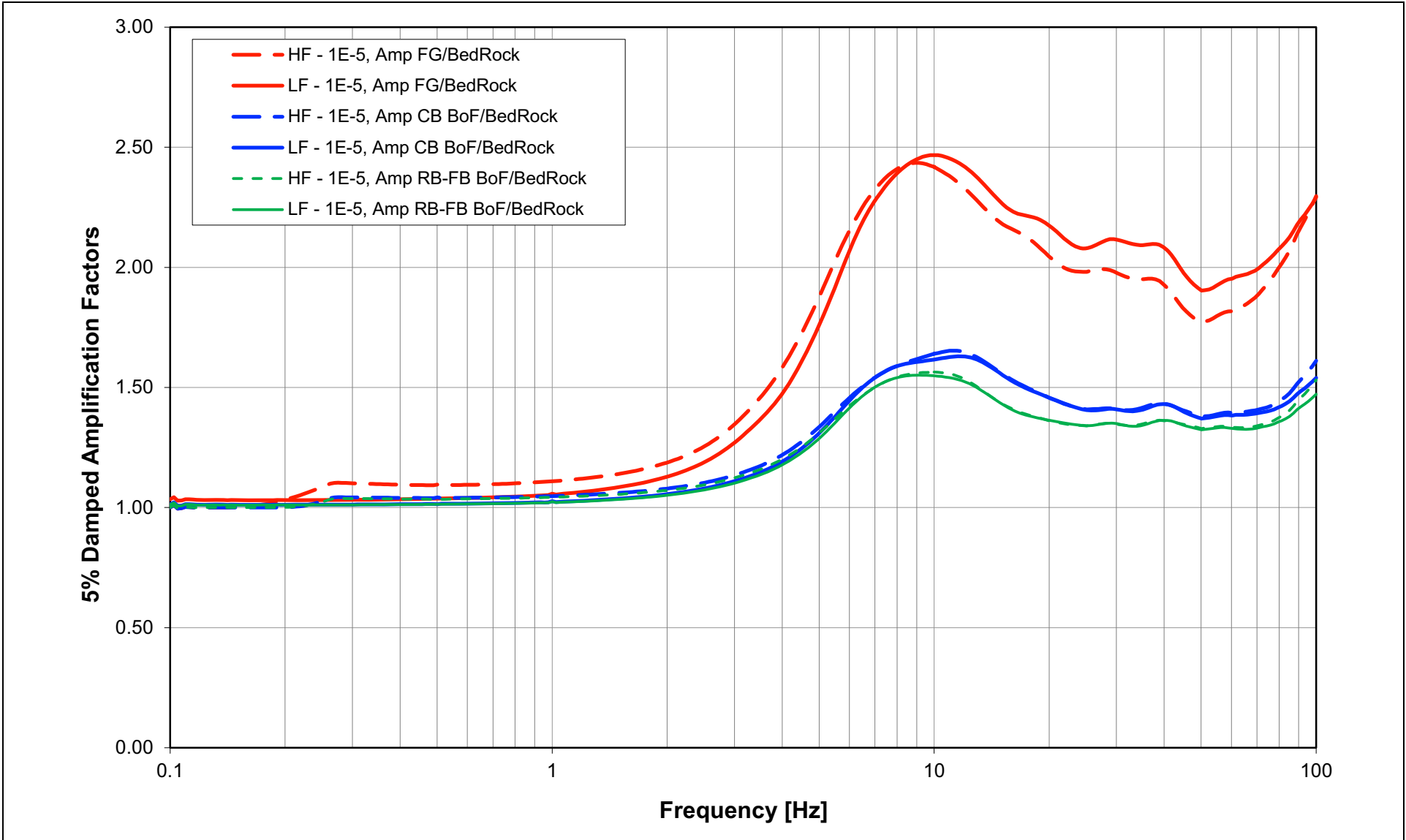


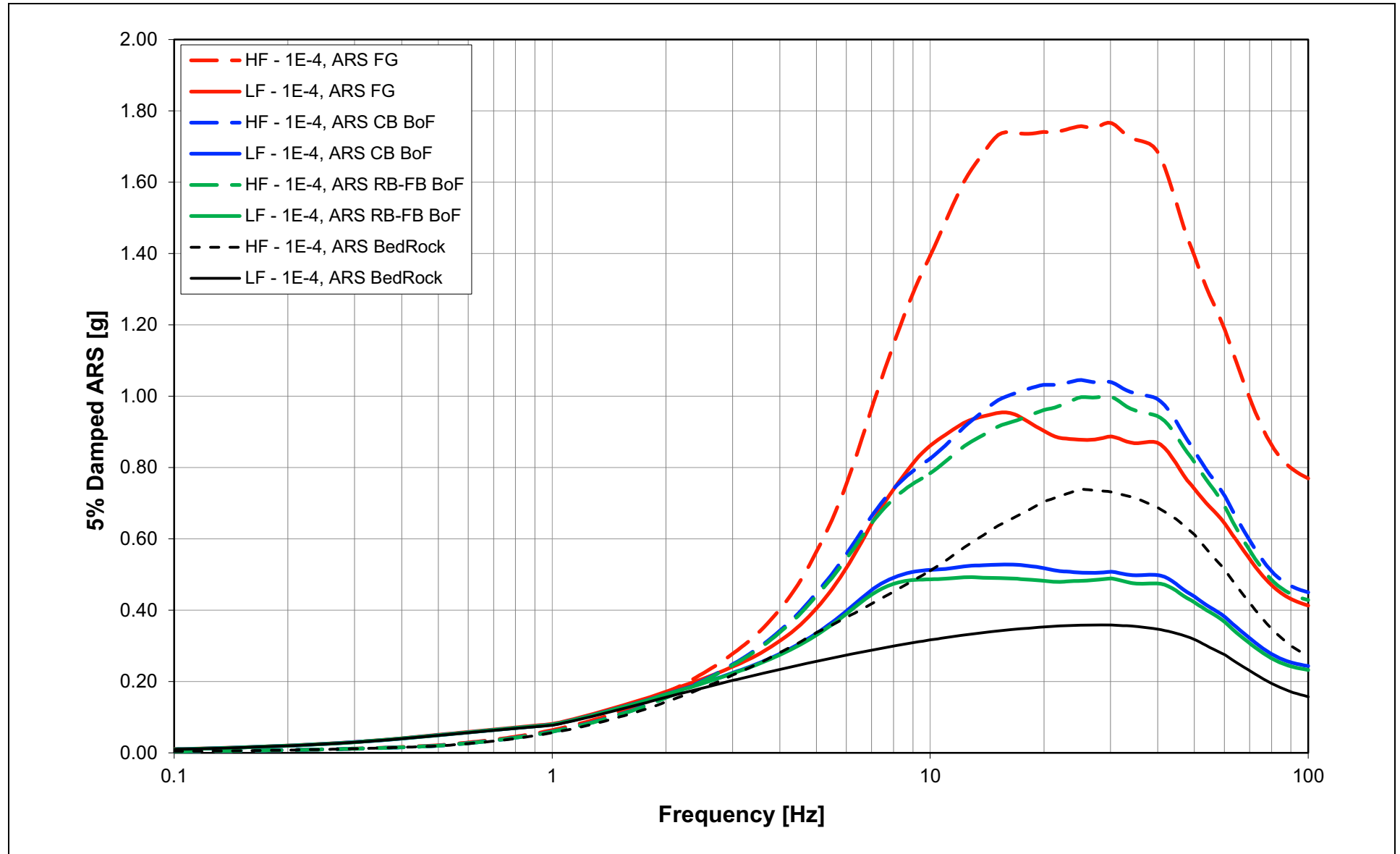
NOTE: Depth of zero corresponds to the finished grade at Elevation 290 ft.

NAPS COL 2.0-27-A    **Figure 2.5.2-278**    Mean Full Column Outcrop ARS Amplification Factors for RB/FB Soil Column at  $10^{-4}$  Hazard Level  
Input Ground Motion

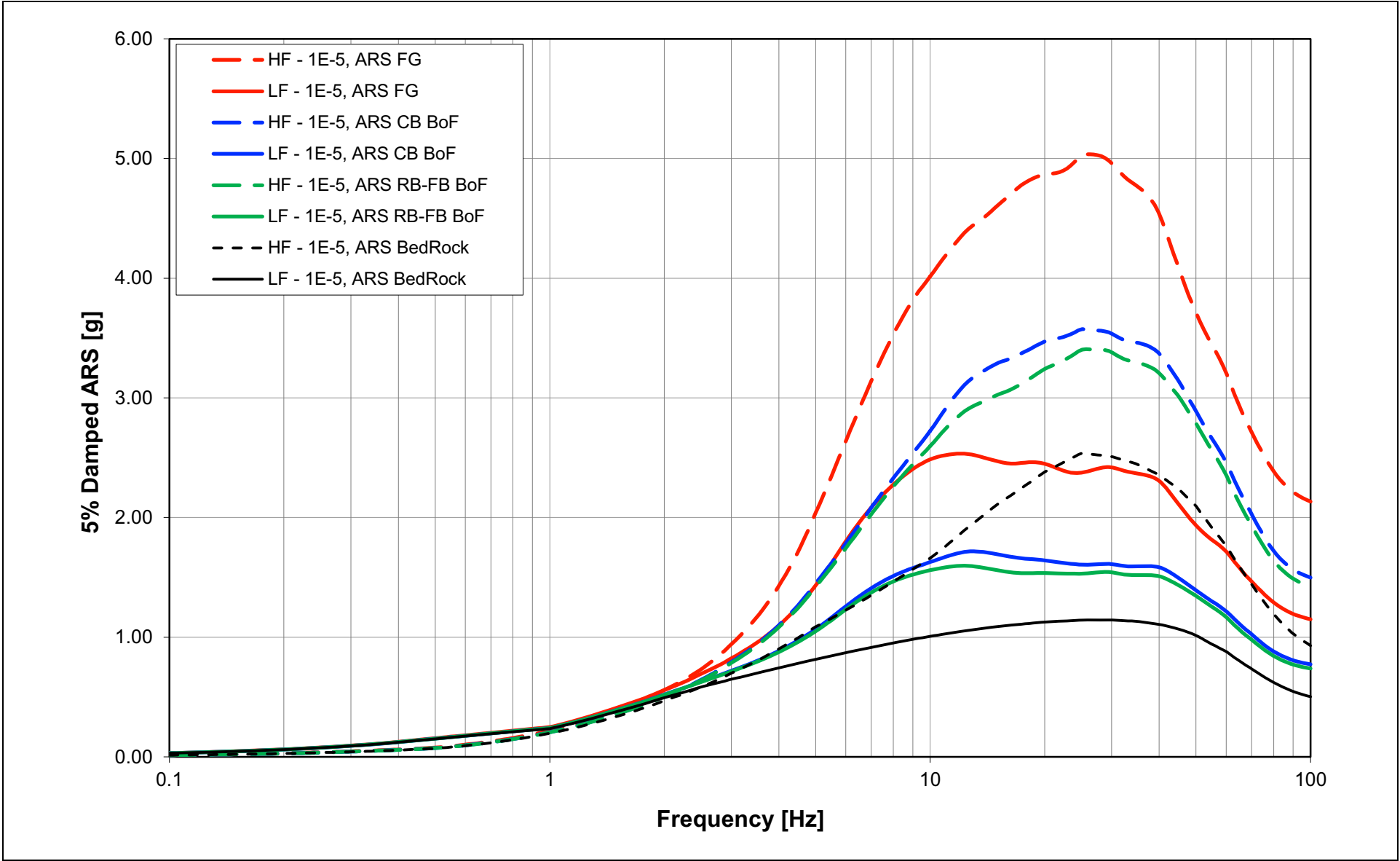


NAPS COL 2.0-27-A    **Figure 2.5.2-279    Mean Full Column Outcrop ARS Amplification Factors for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion**

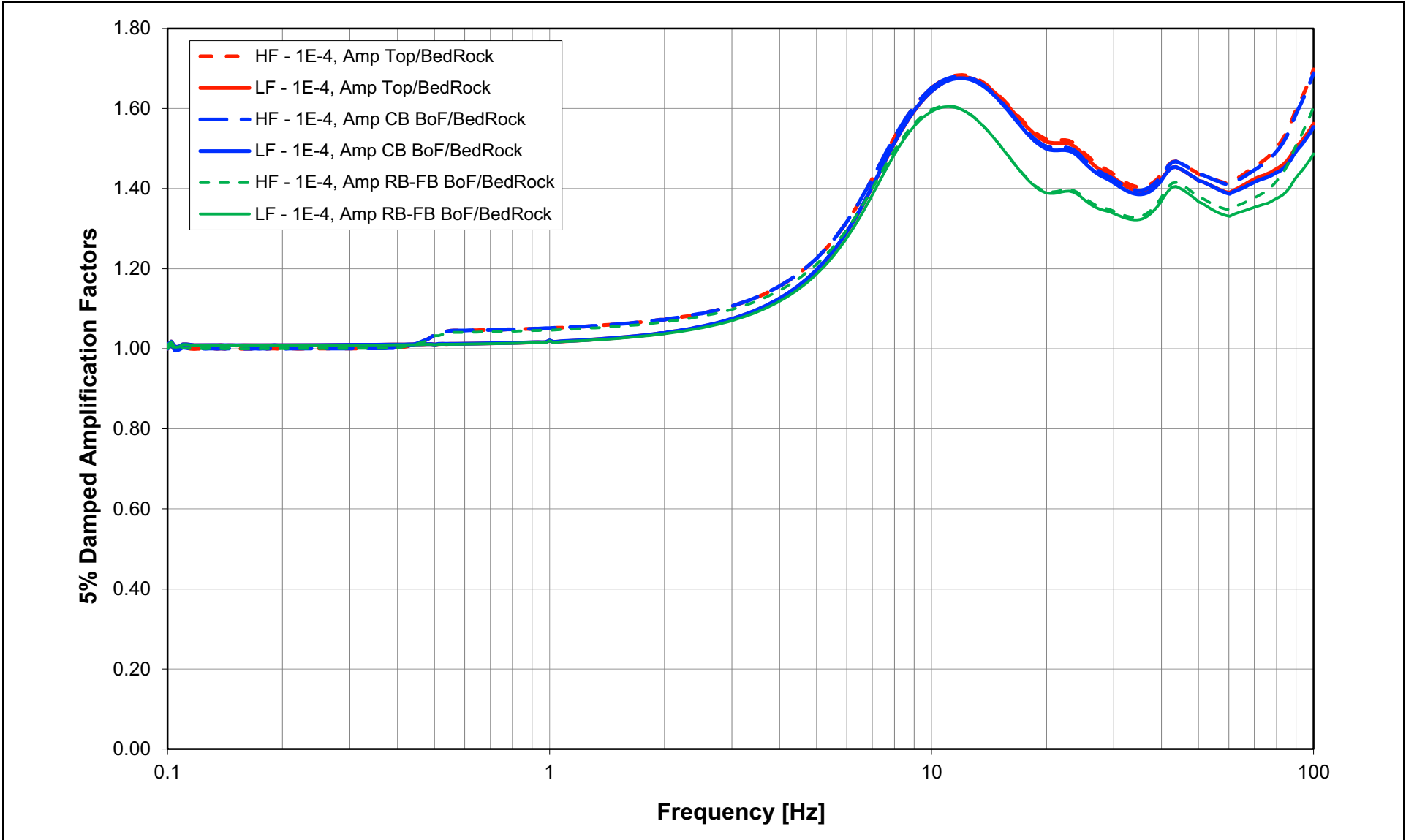


NAPS COL 2.0-27-A Figure 2.5.2-280 Mean Full Column Outcrop ARS for RB/FB Soil Column at  $10^{-4}$  Hazard Level Input Ground Motion

NAPS COL 2.0-27-A    **Figure 2.5.2-281**    Mean Full Column Outcrop ARS for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion

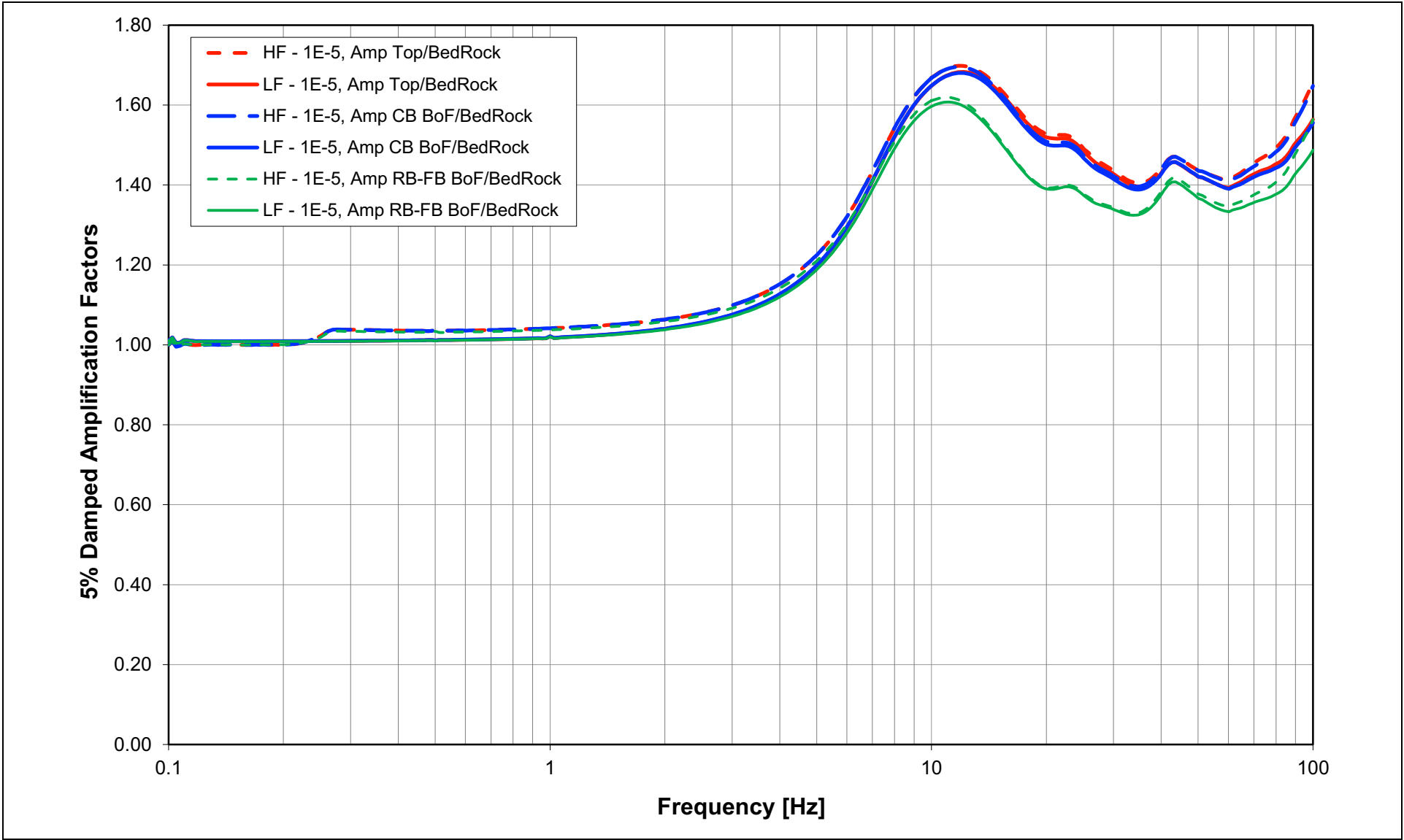


NAPS COL 2.0-27-A     **Figure 2.5.2-282**     Mean Partial Column Outcrop ARS Amplification Factors for RB/FB Soil Column at 10<sup>-4</sup> Hazard Level Input Ground Motion

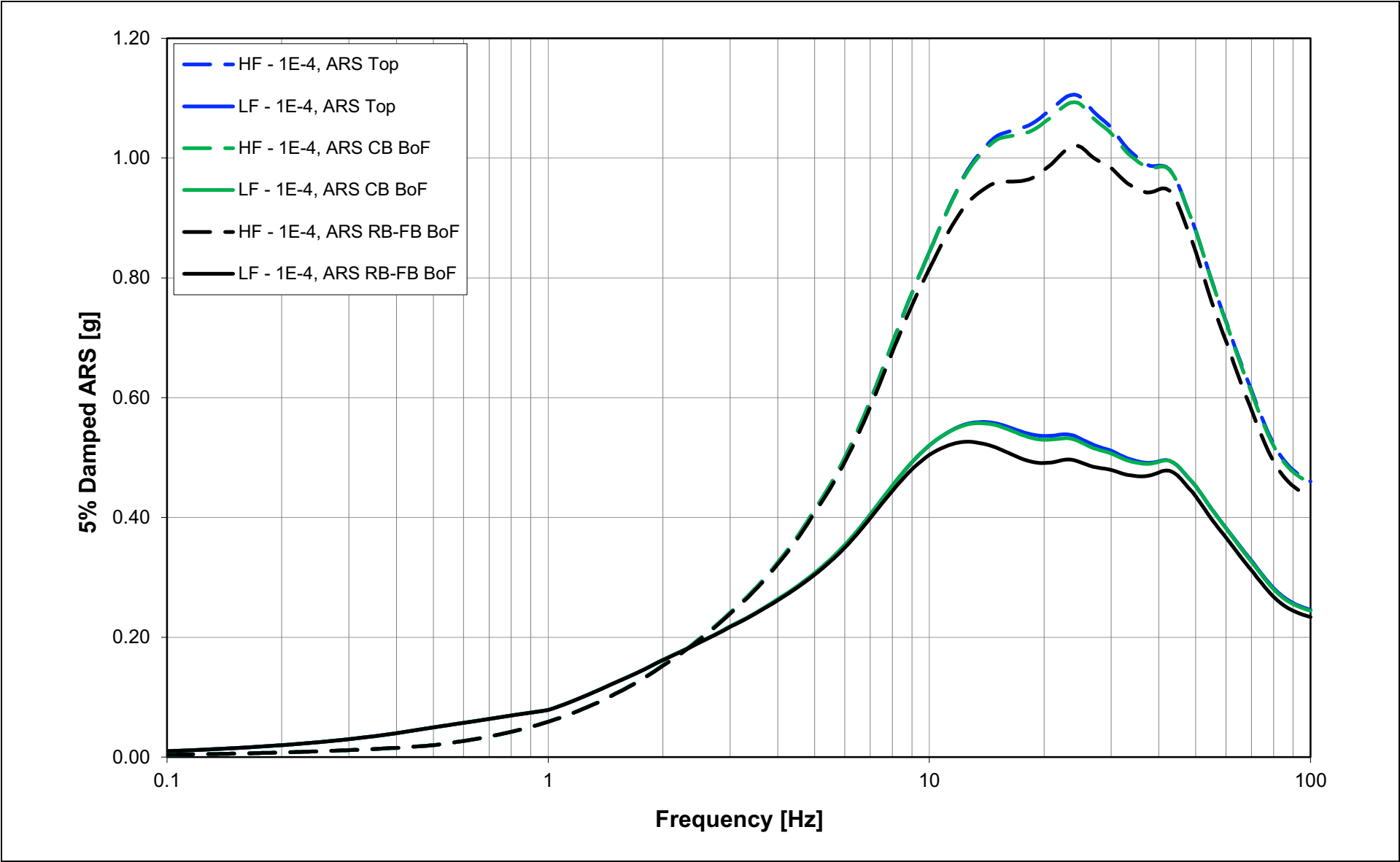




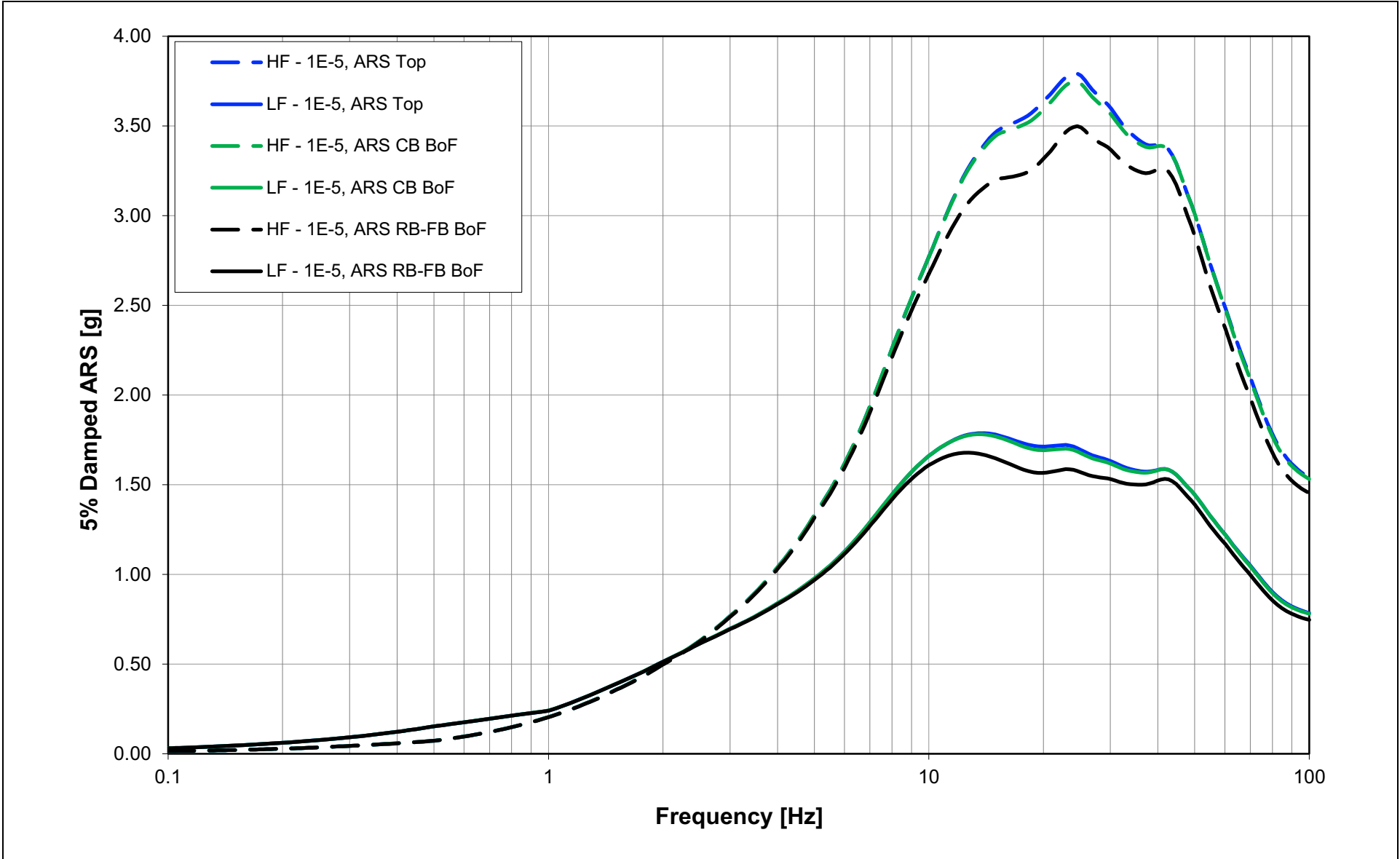
NAPS COL 2.0-27-A    **Figure 2.5.2-283**    Mean Partial Column Outcrop ARS Amplification Factors for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion



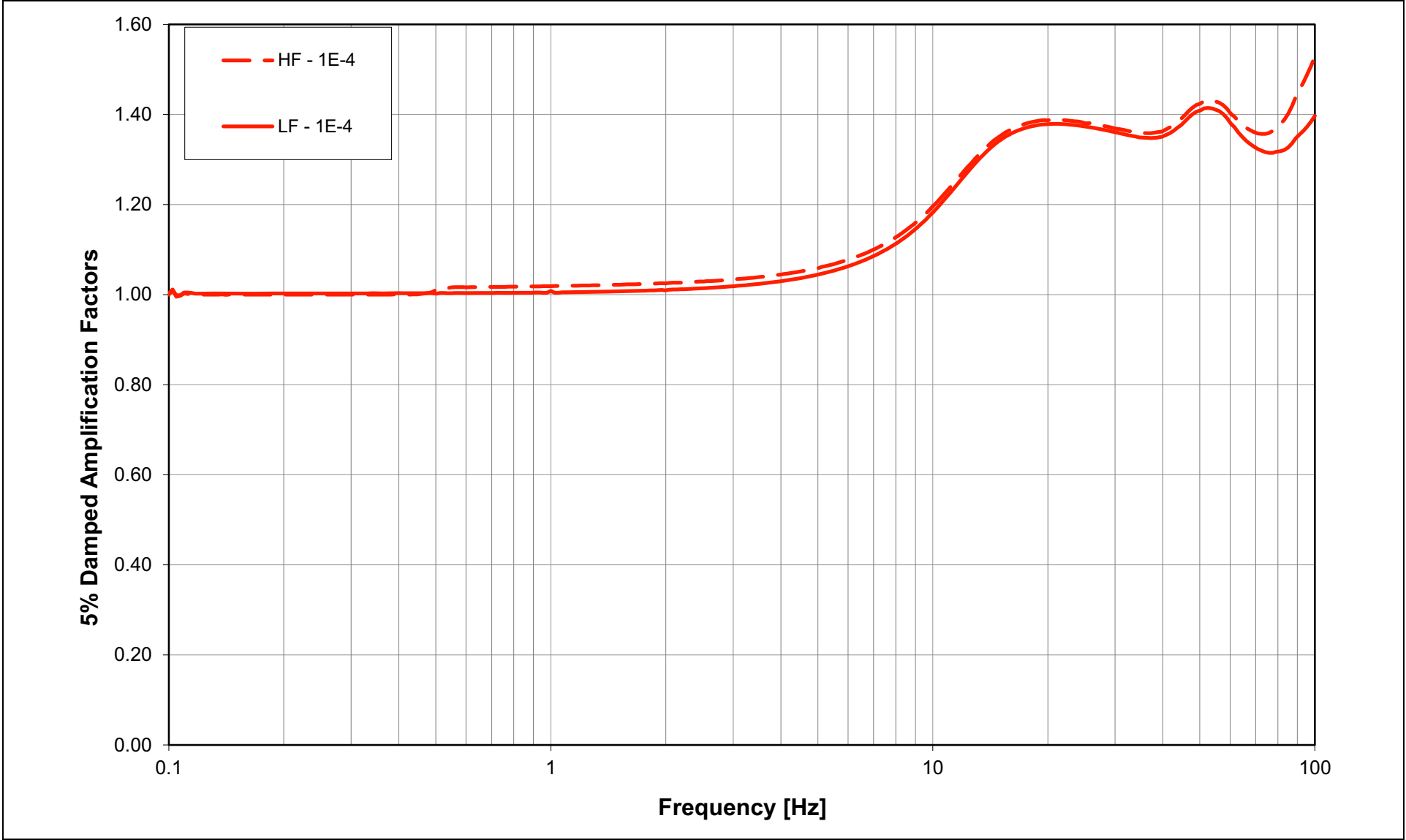
NAPS COL 2.0-27-A    **Figure 2.5.2-284**    Mean Partial Column Outcrop ARS for RB/FB Soil Column at 10<sup>-4</sup> Hazard Level Input Ground Motion



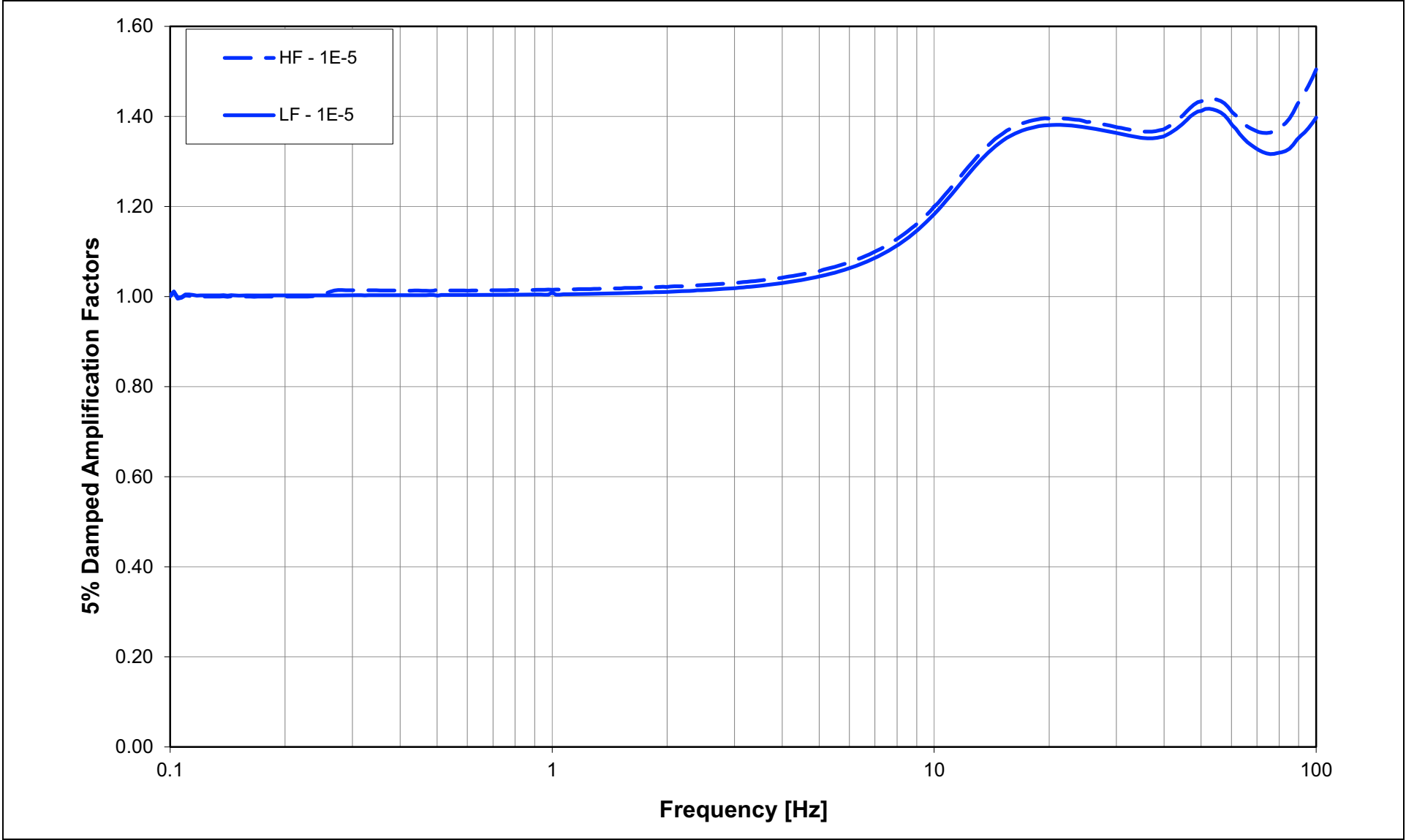
NAPS COL 2.0-27-A    **Figure 2.5.2-285**    Mean Partial Column Outcrop ARS for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion



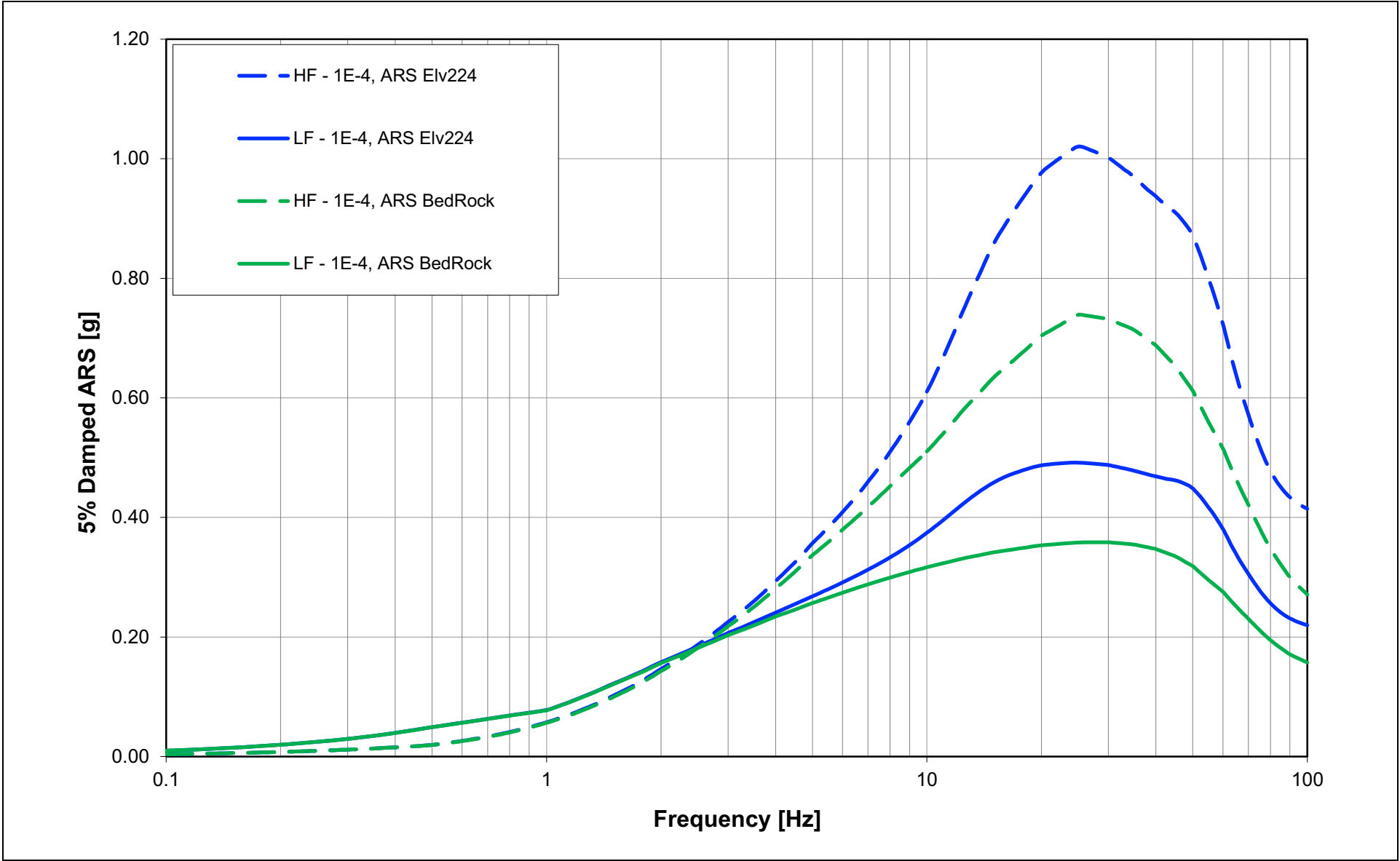
NAPS COL 2.0-27-A    **Figure 2.5.2-286**    Mean Geologic Outcrop ARS Amplification Factors for RB/FB Soil Column at 10<sup>-4</sup> Hazard Level  
Input Ground Motion



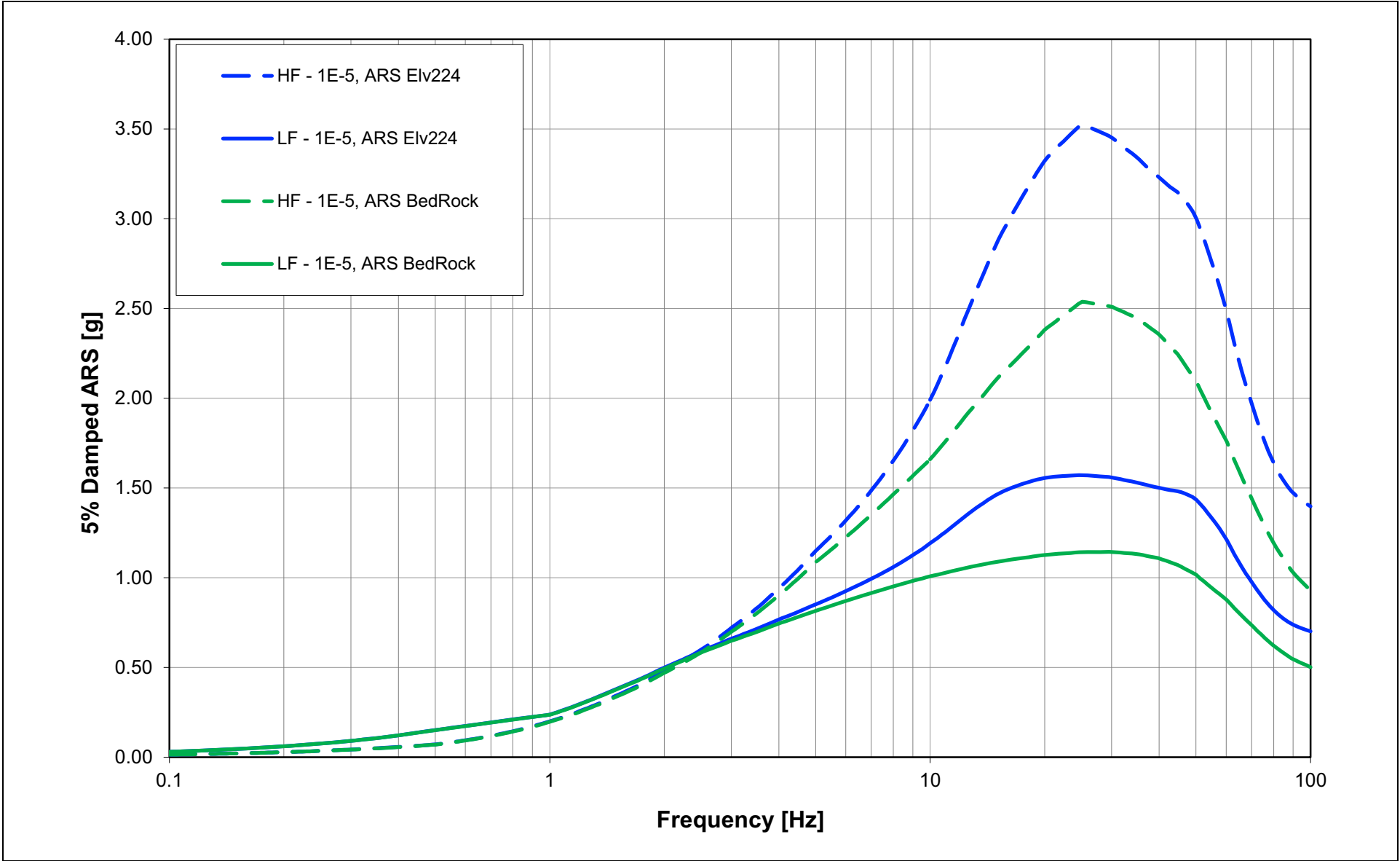
NAPS COL 2.0-27-A    **Figure 2.5.2-287**    Mean Geologic Outcrop ARS Amplification Factors for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level  
Input Ground Motion



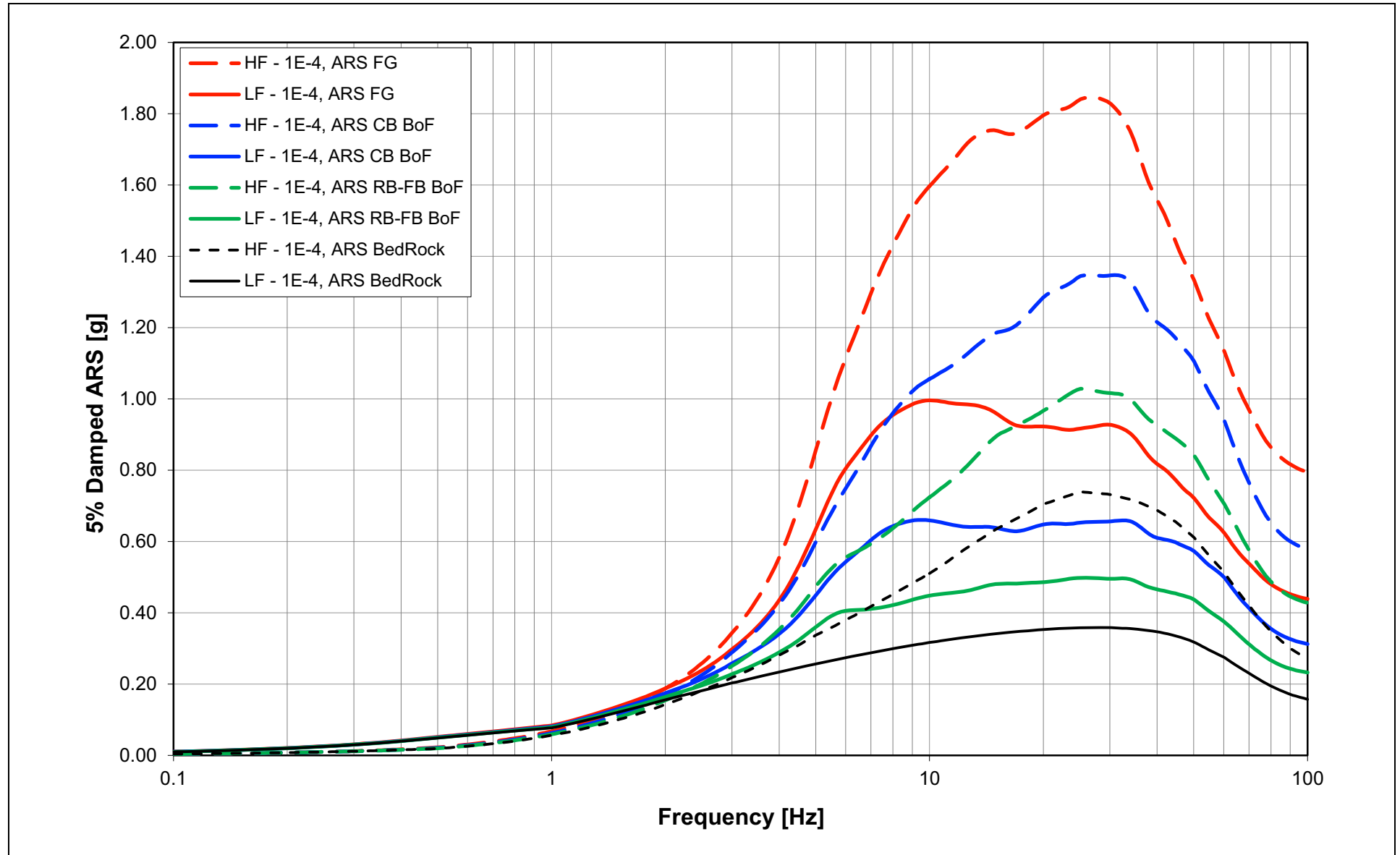
NAPS COL 2.0-27-A    **Figure 2.5.2-288**    Mean Geologic Outcrop ARS for RB/FB Soil Column at 10<sup>-4</sup> Hazard Level Input Ground Motion

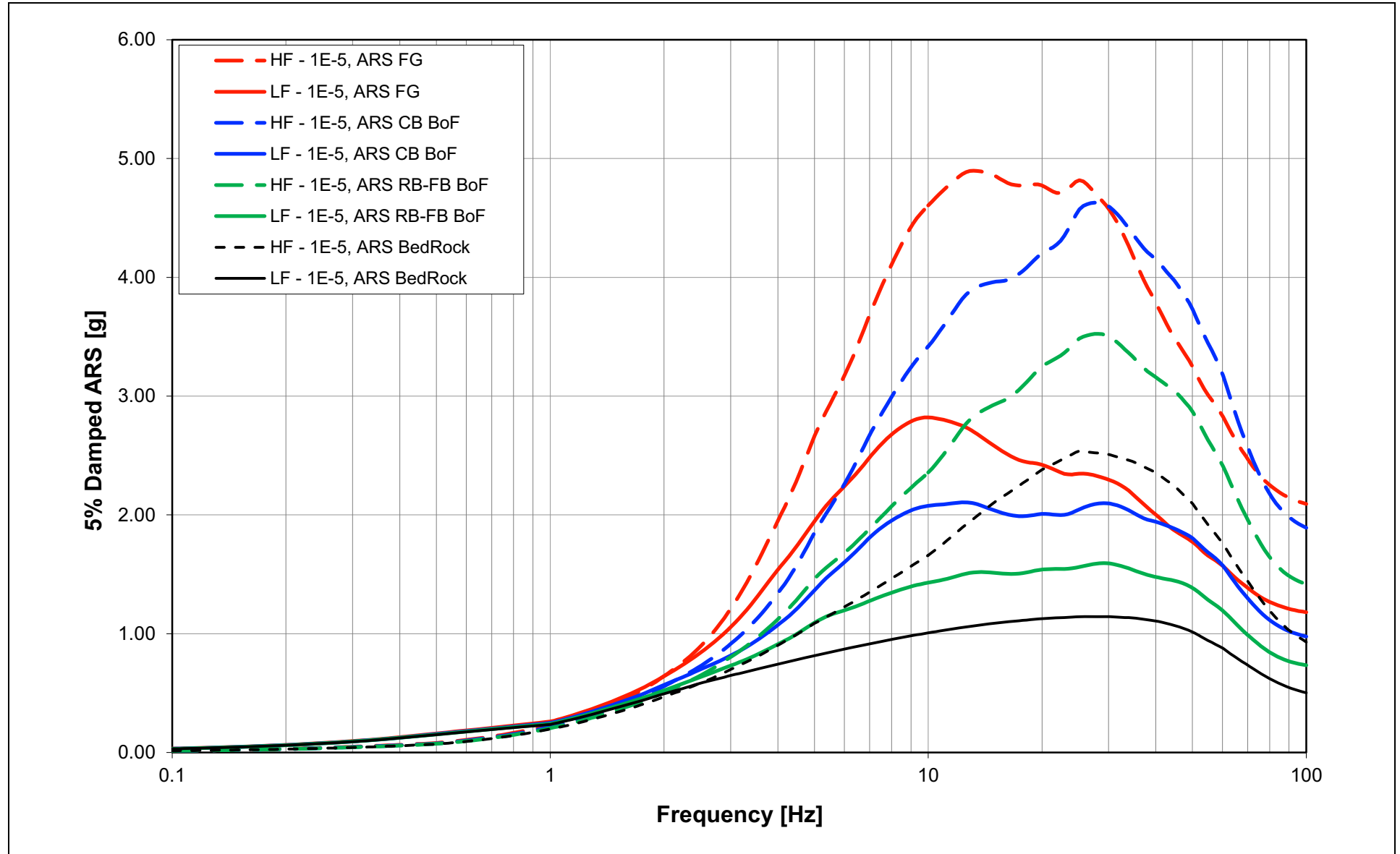


NAPS COL 2.0-27-A    **Figure 2.5.2-289**    Mean Geologic Outcrop ARS for RB/FB Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion

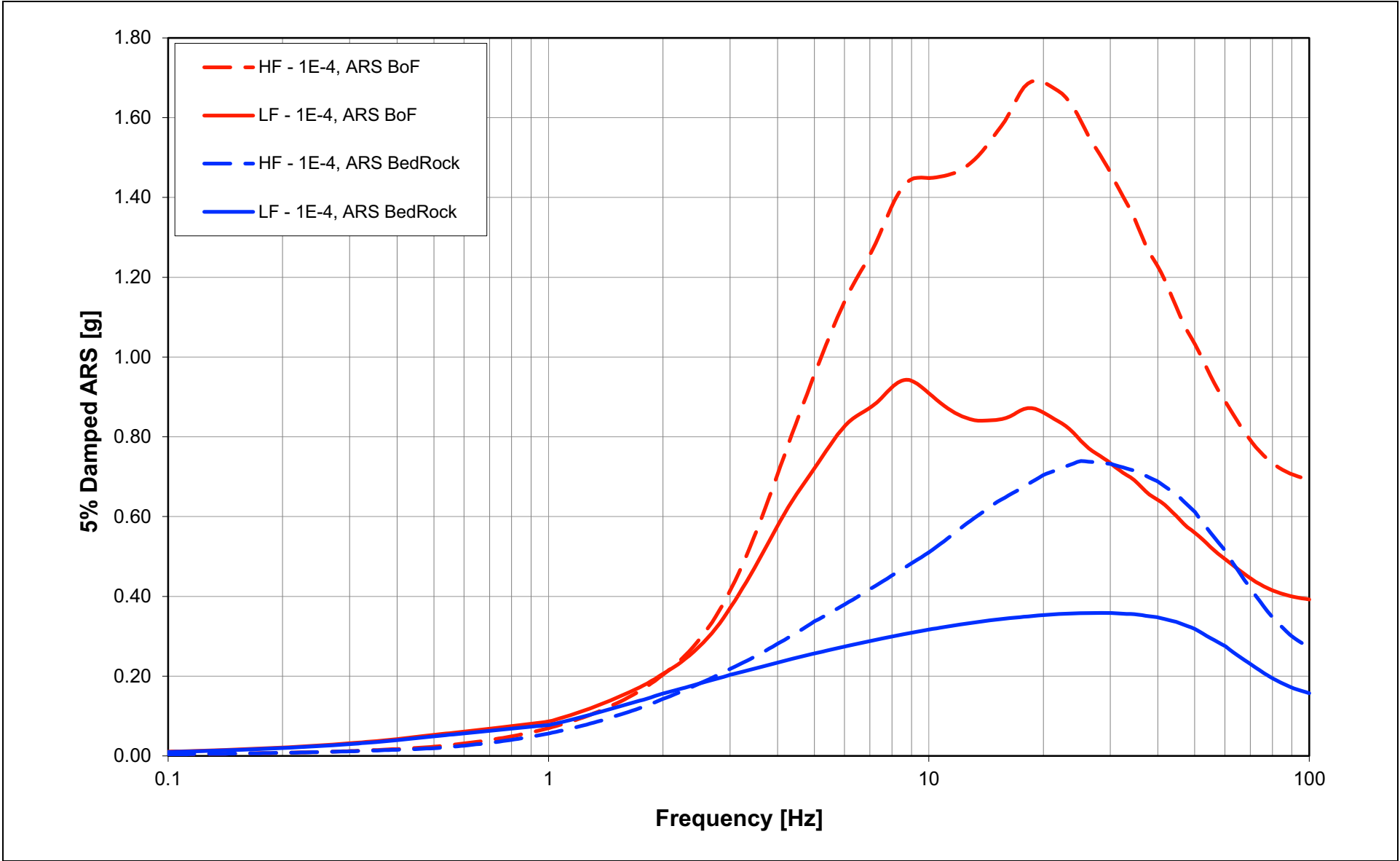




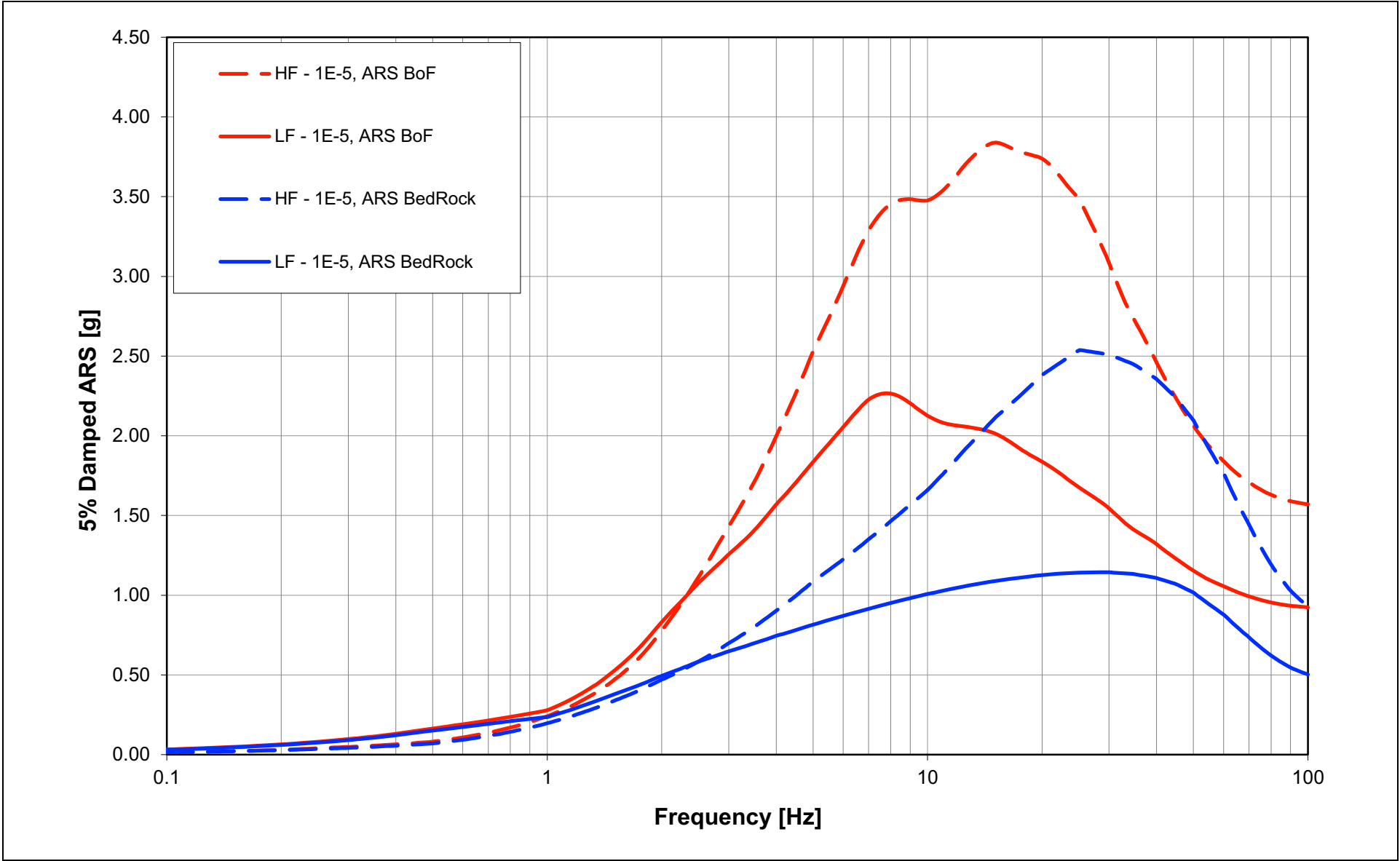
NAPS COL 2.0-27-A    **Figure 2.5.2-290**    Mean Full Column Outcrop ARS for CB Soil Column at  $10^{-4}$  Hazard Level Input Ground Motion

NAPS COL 2.0-27-A Figure 2.5.2-291 Mean Full Column Outcrop ARS for CB Soil Column at  $10^{-5}$  Hazard Level Input Ground Motion

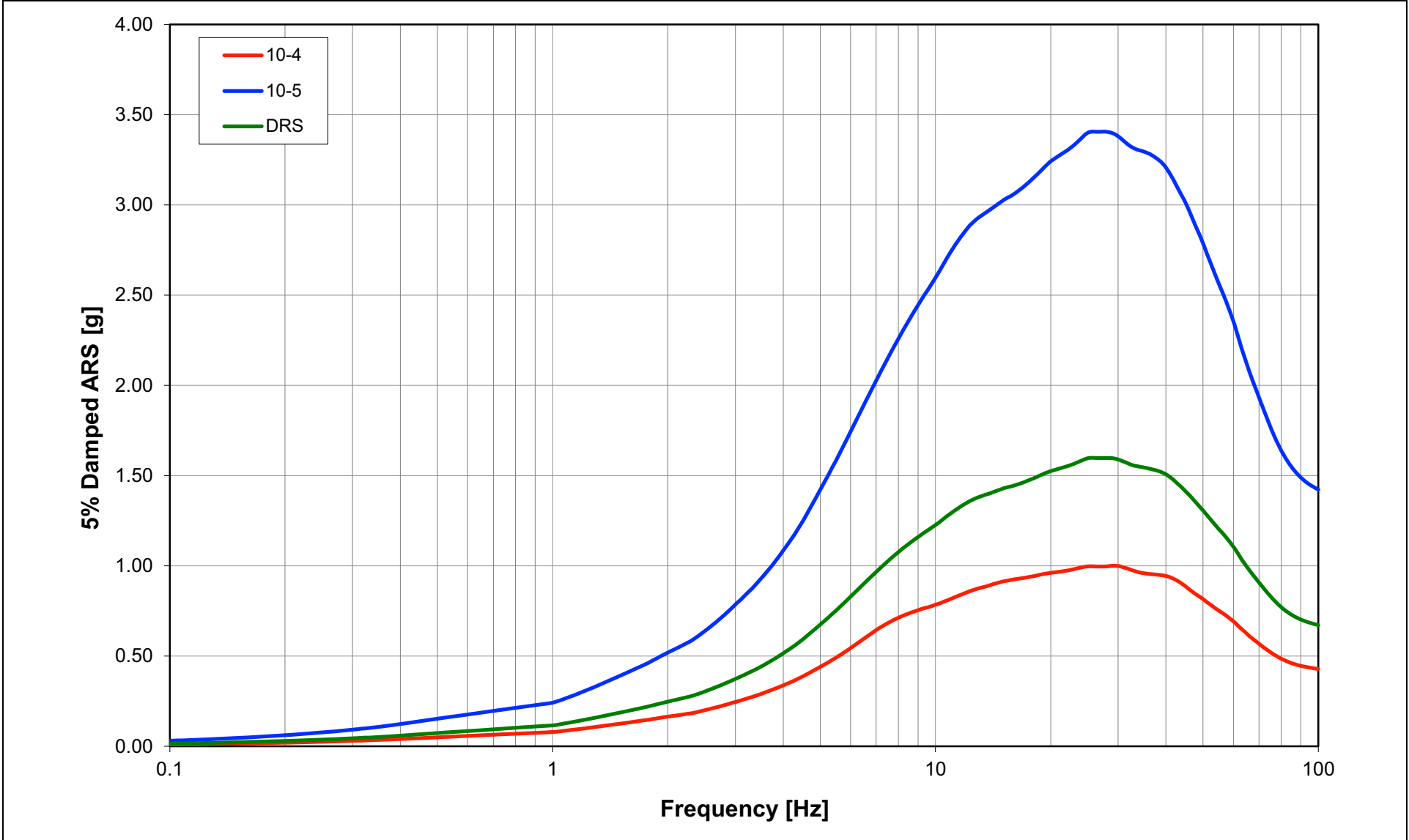
NAPS COL 2.0-27-A    **Figure 2.5.2-292**    Mean Full Column Outcrop ARS for FWSC Soil Column at 10<sup>-4</sup> Hazard Level Input Ground Motion



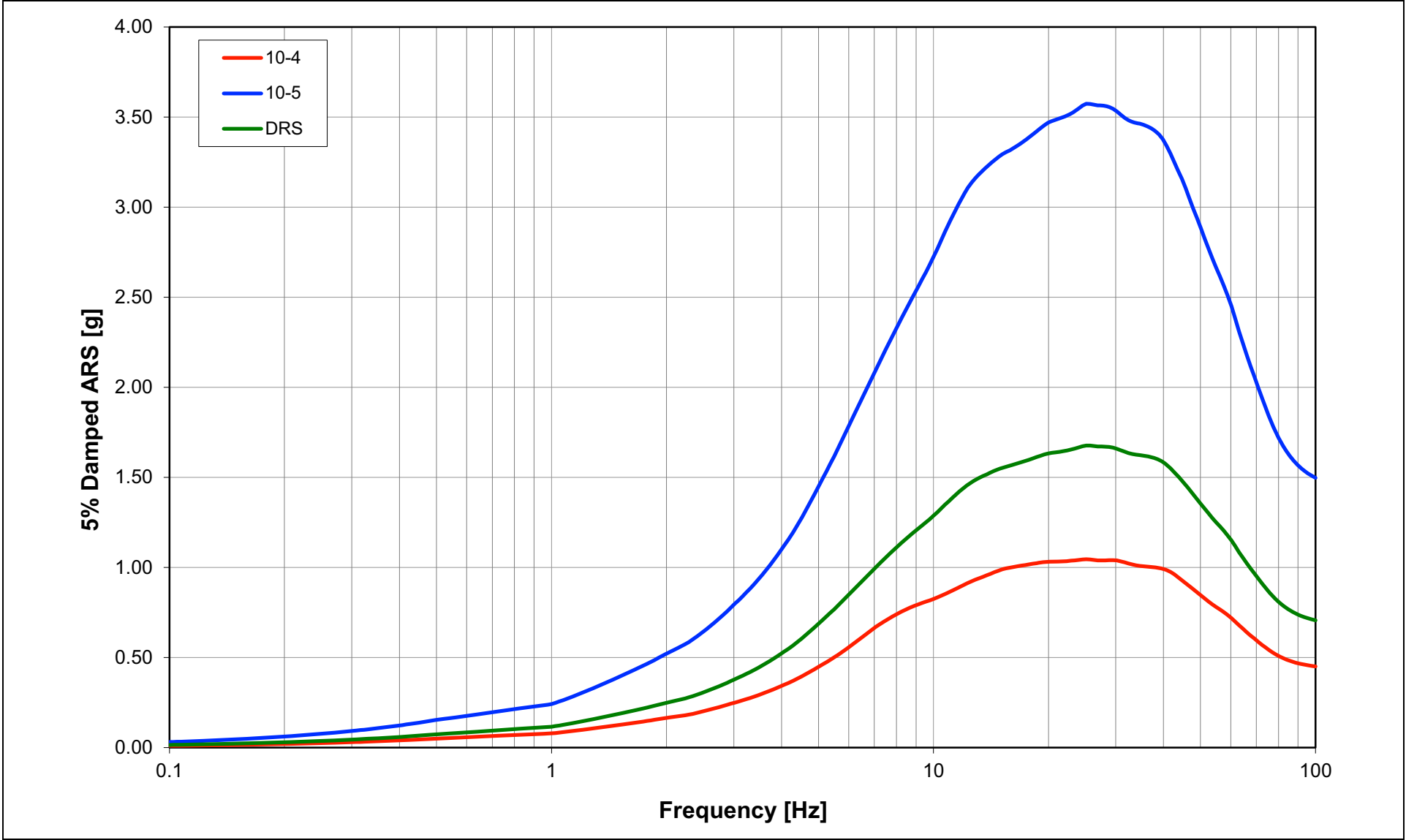
NAPS COL 2.0-27-A    **Figure 2.5.2-293**    Mean Full Column Outcrop ARS for FWSC Soil Column at 10<sup>-5</sup> Hazard Level Input Ground Motion



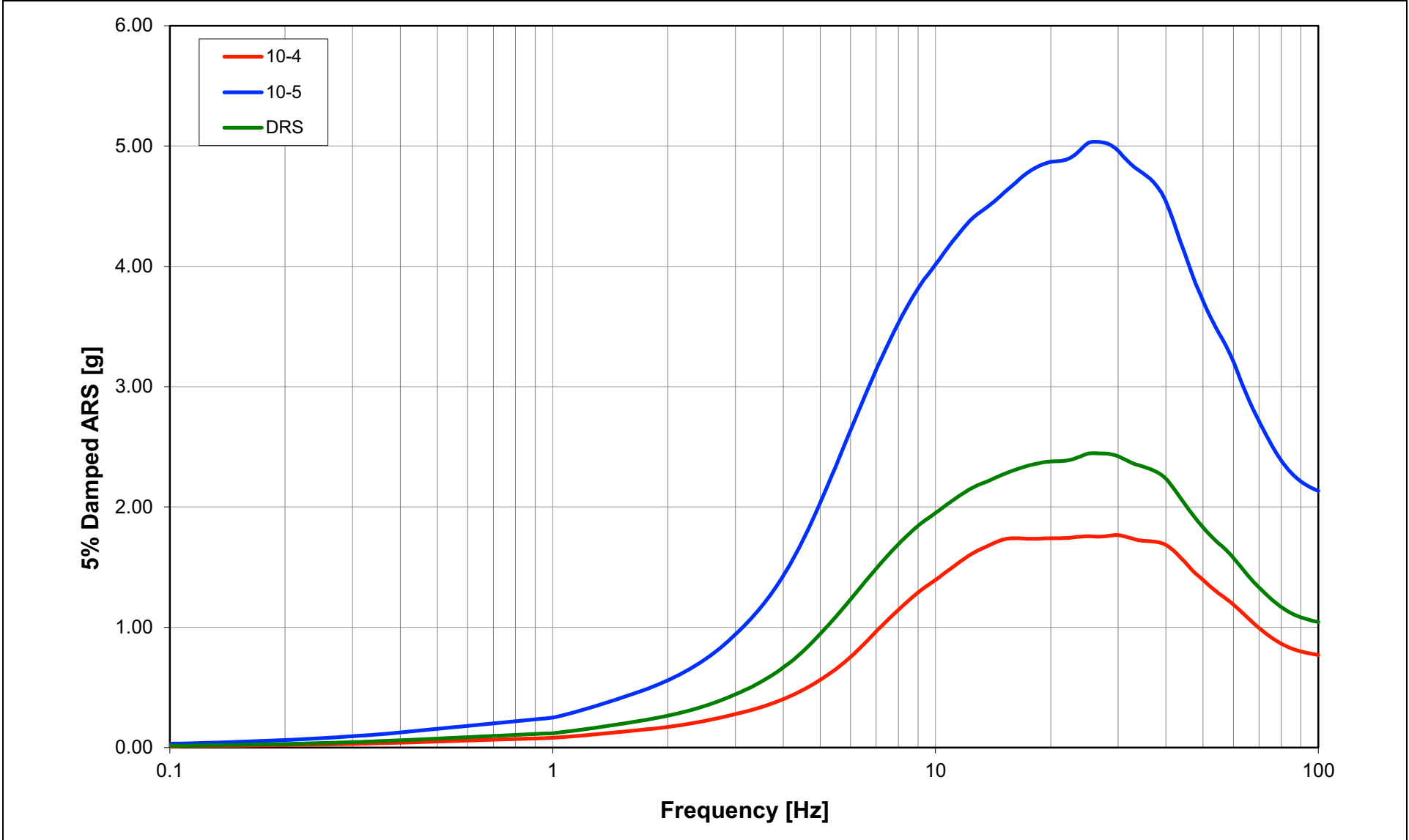
NAPS COL 2.0-27-A    **Figure 2.5.2-294**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for RB/FB Soil Column at Elevation 224 ft (BoF for RB/FB)



NAPS COL 2.0-27-A    **Figure 2.5.2-295**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for RB/FB Soil Column at Elevation 241 ft (BoF for CB)

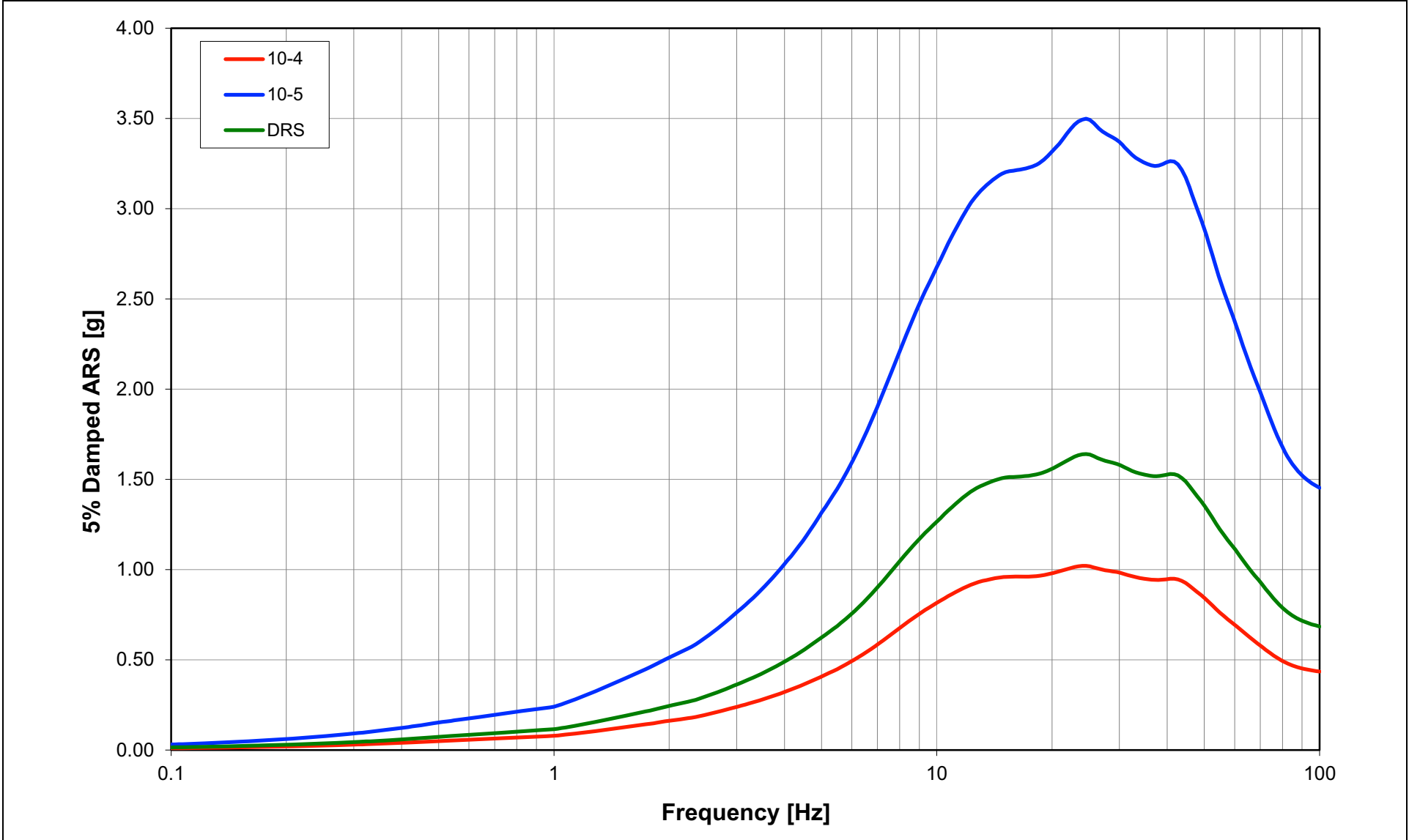


NAPS COL 2.0-27-A    **Figure 2.5.2-296**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for RB/FB Soil Column at Elevation 290 ft (Finished Grade)

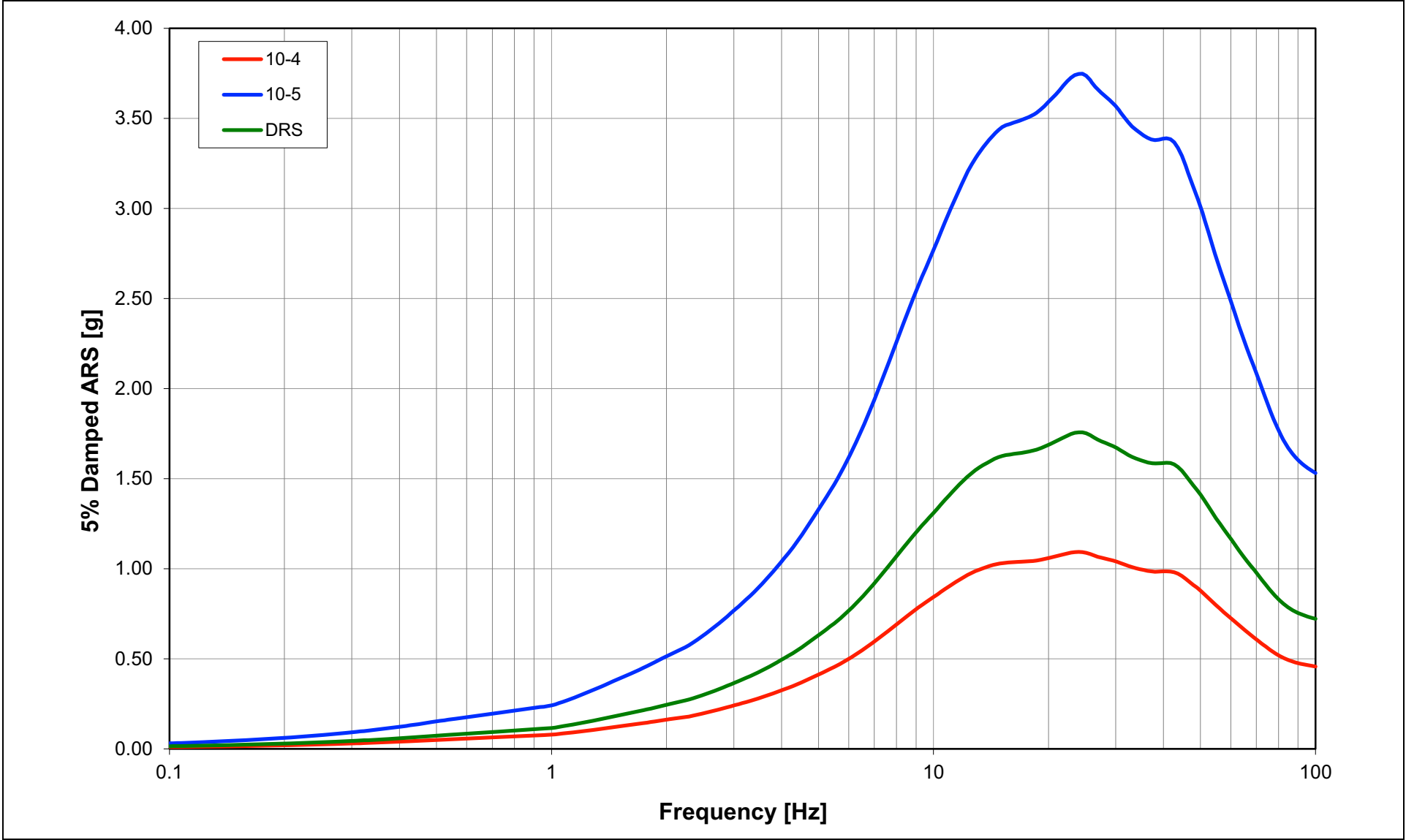




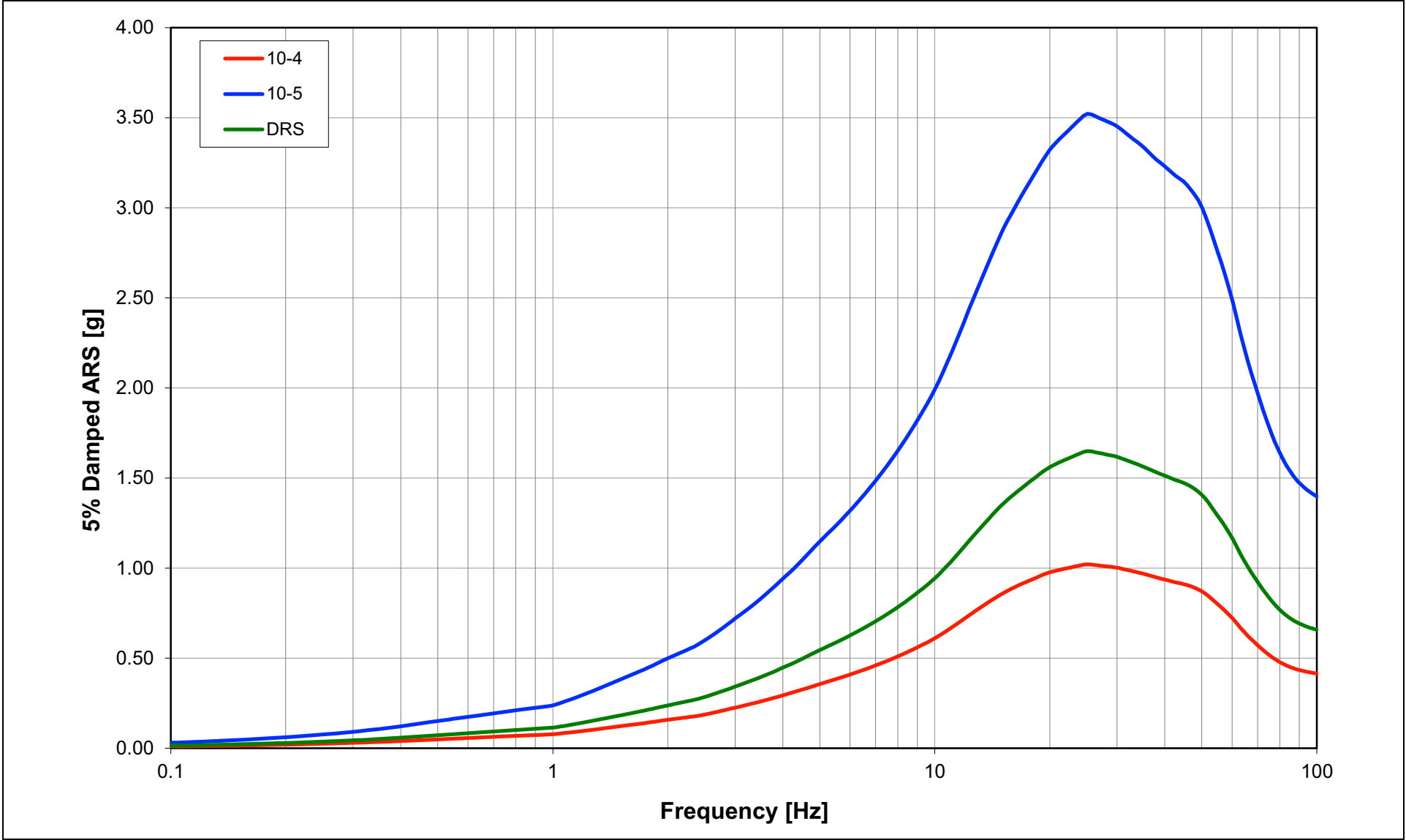
NAPS COL 2.0-27-A    **Figure 2.5.2-297**    Mean Horizontal Partial Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Partial Column Outcrop DRS for RB/FB Soil Column at Elevation 224 ft (BoF for RB/FB)



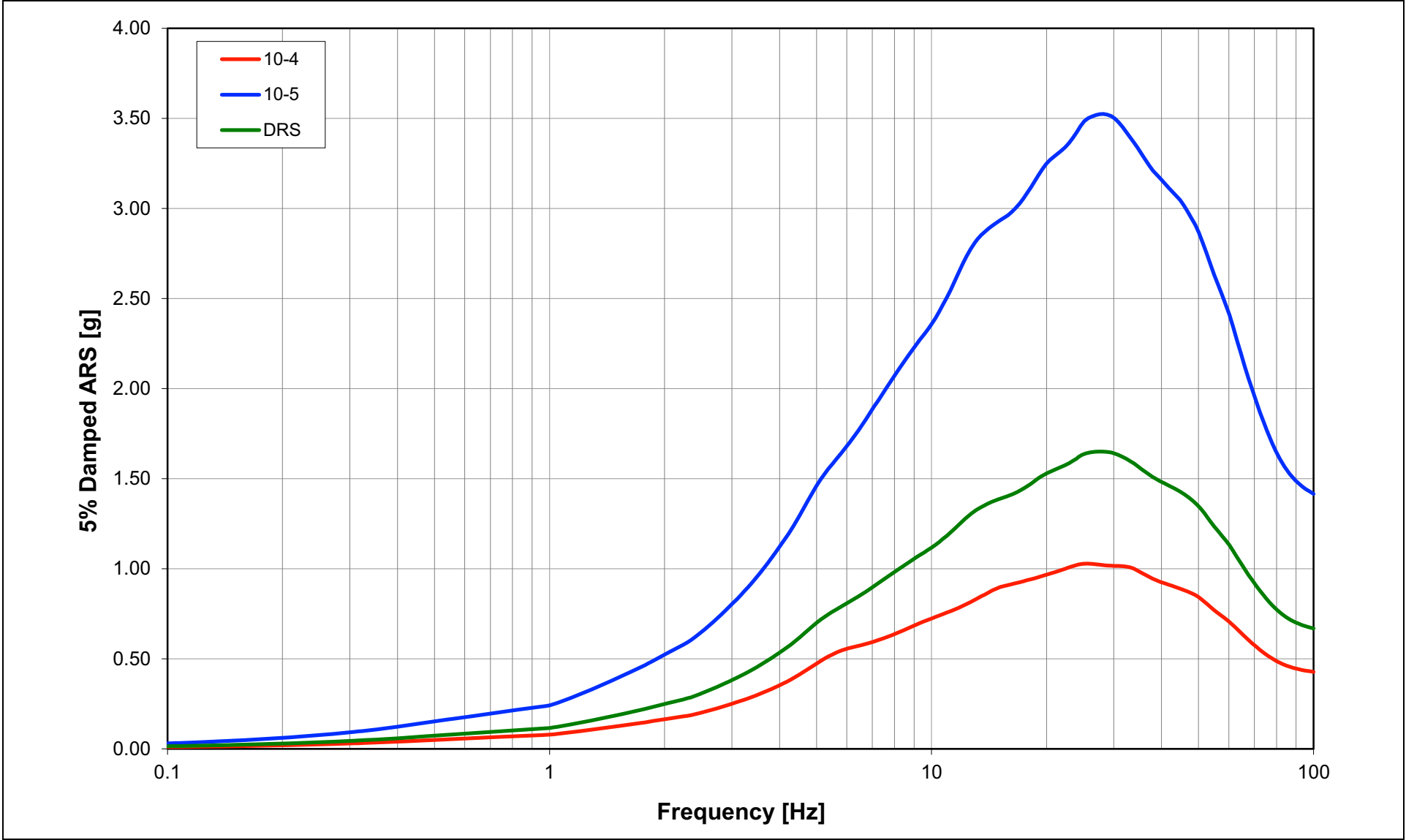
NAPS COL 2.0-27-A    **Figure 2.5.2-298**    Mean Horizontal Partial Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Partial Column Outcrop DRS for RB/FB Soil Column at Elevation 241 ft (BoF for CB).



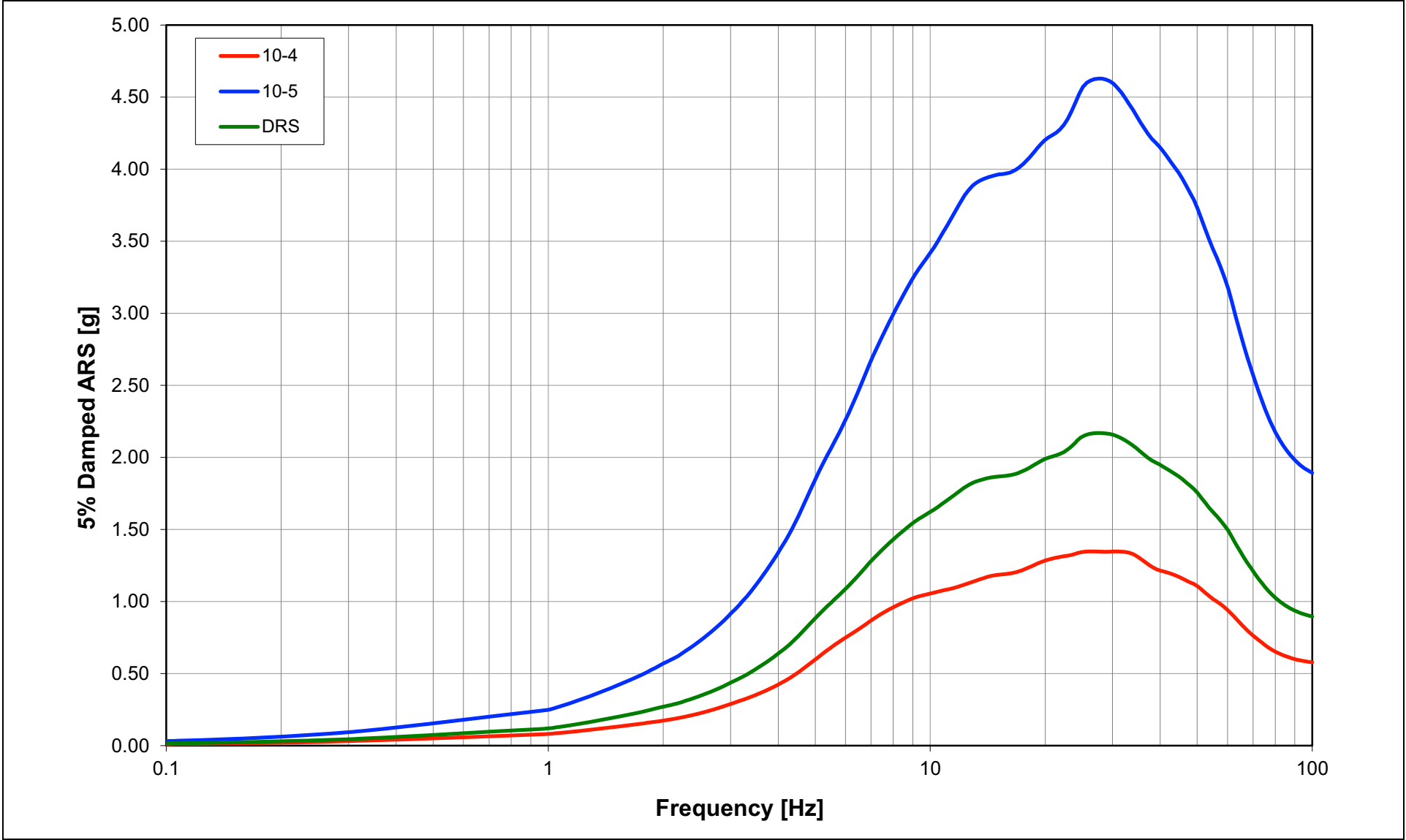
NAPS COL 2.0-27-A    **Figure 2.5.2-299**    Mean Horizontal Geologic Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Geologic Outcrop DRS for RB/FB Soil Column at Elevation 224 ft (GMRS Horizon)



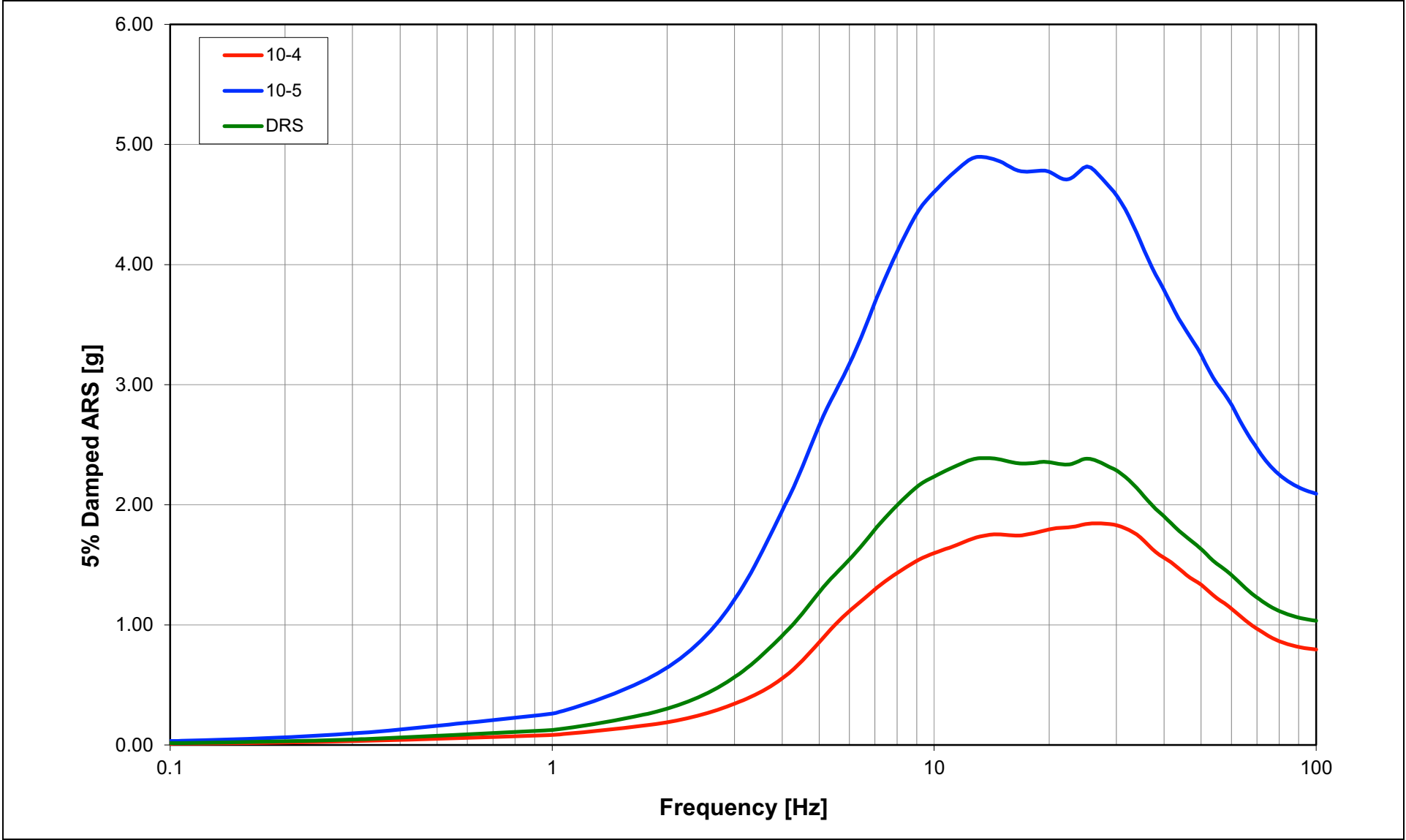
NAPS COL 2.0-27-A    **Figure 2.5.2-300**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for CB Soil Column at Elevation 224 ft (BoF for RB/FB)



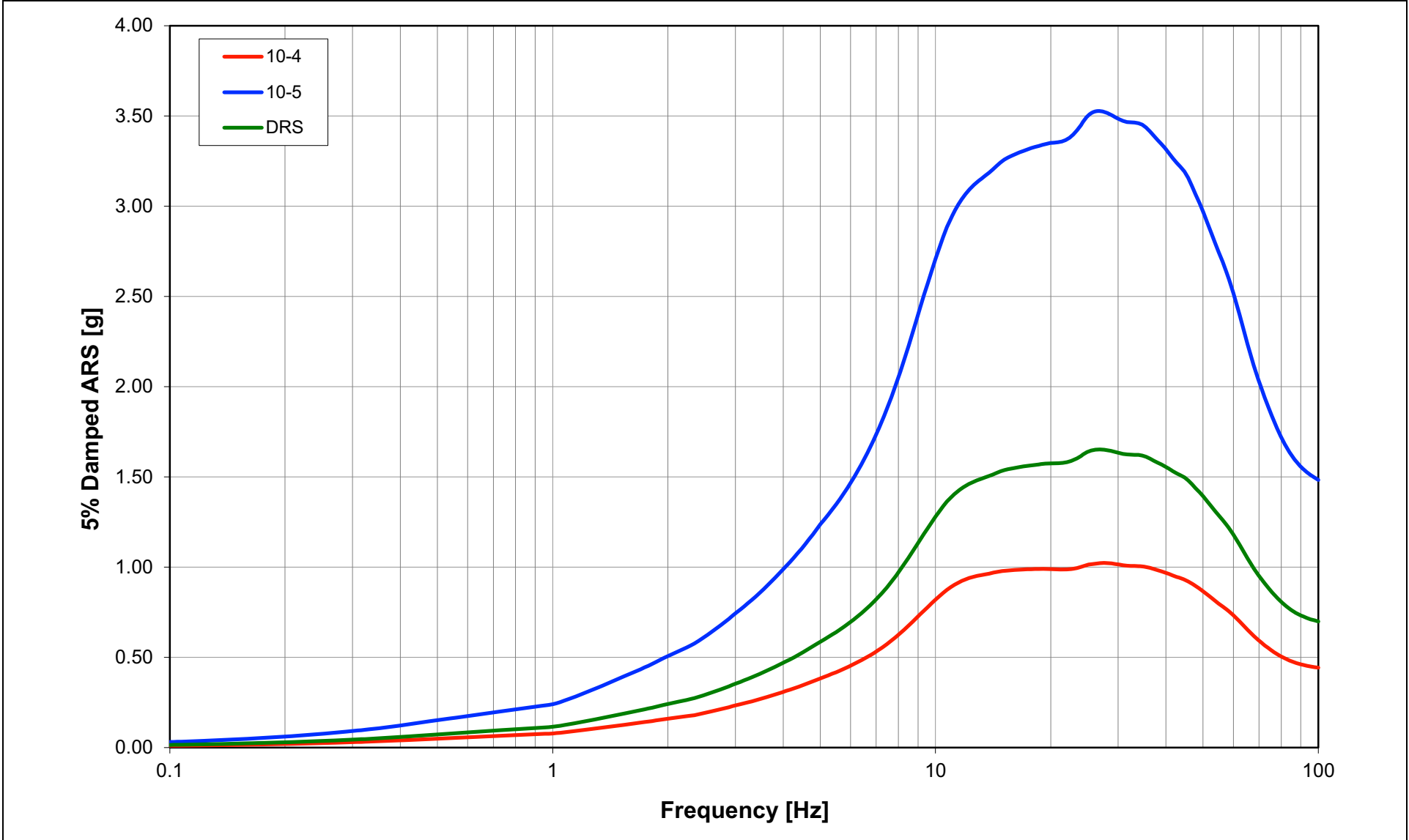
NAPS COL 2.0-27-A    **Figure 2.5.2-301**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for CB Soil Column at Elevation 241 ft (BoF for CB)



NAPS COL 2.0-27-A    **Figure 2.5.2-302**    Mean Horizontal Full Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Full Column Outcrop DRS for CB Soil Column at Elevation 290 ft (Finished Grade)

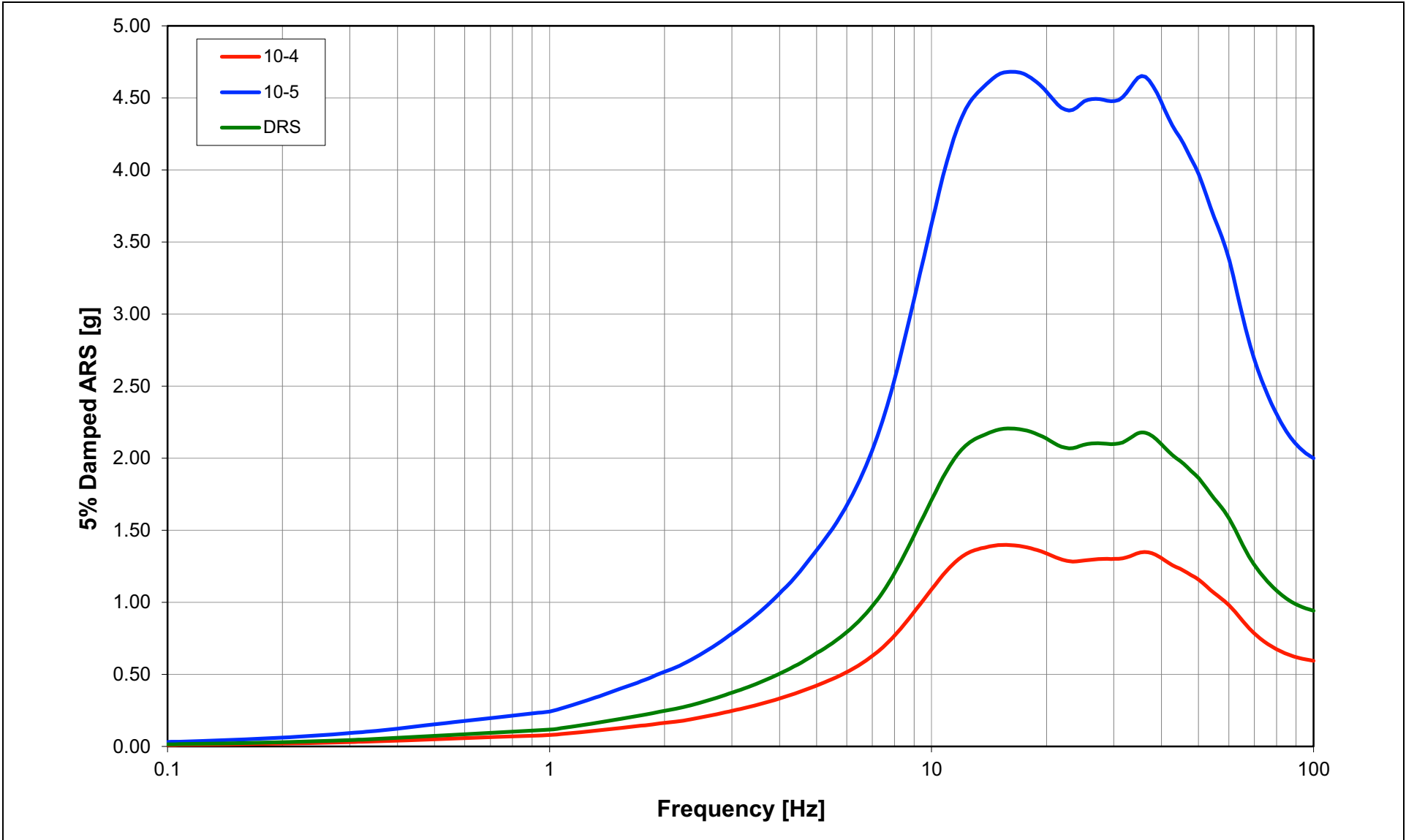


NAPS COL 2.0-27-A    **Figure 2.5.2-303**    Mean Horizontal Partial Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Partial Column Outcrop DRS for CB Soil Column at Elevation 224 ft (BoF for RB/FB)

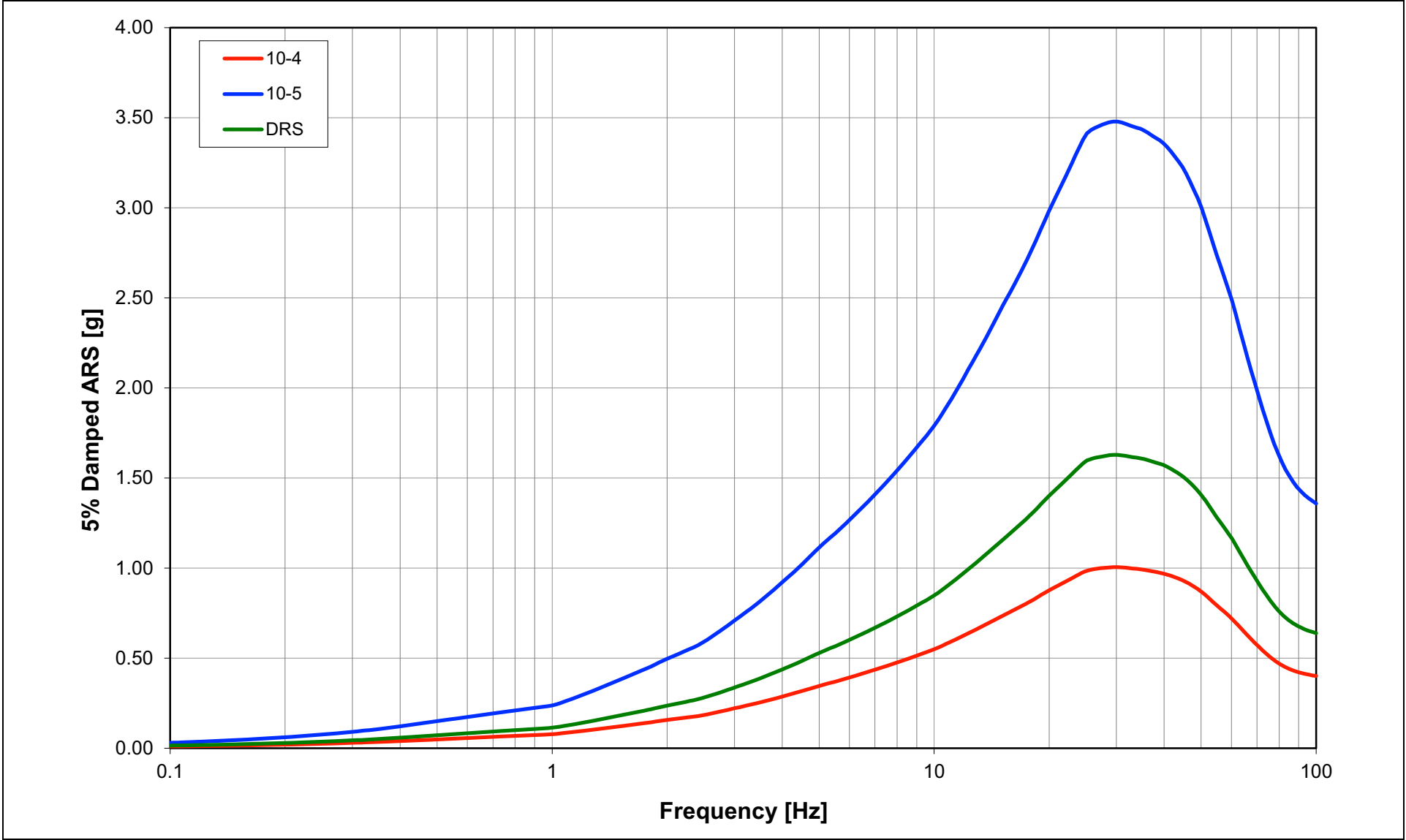




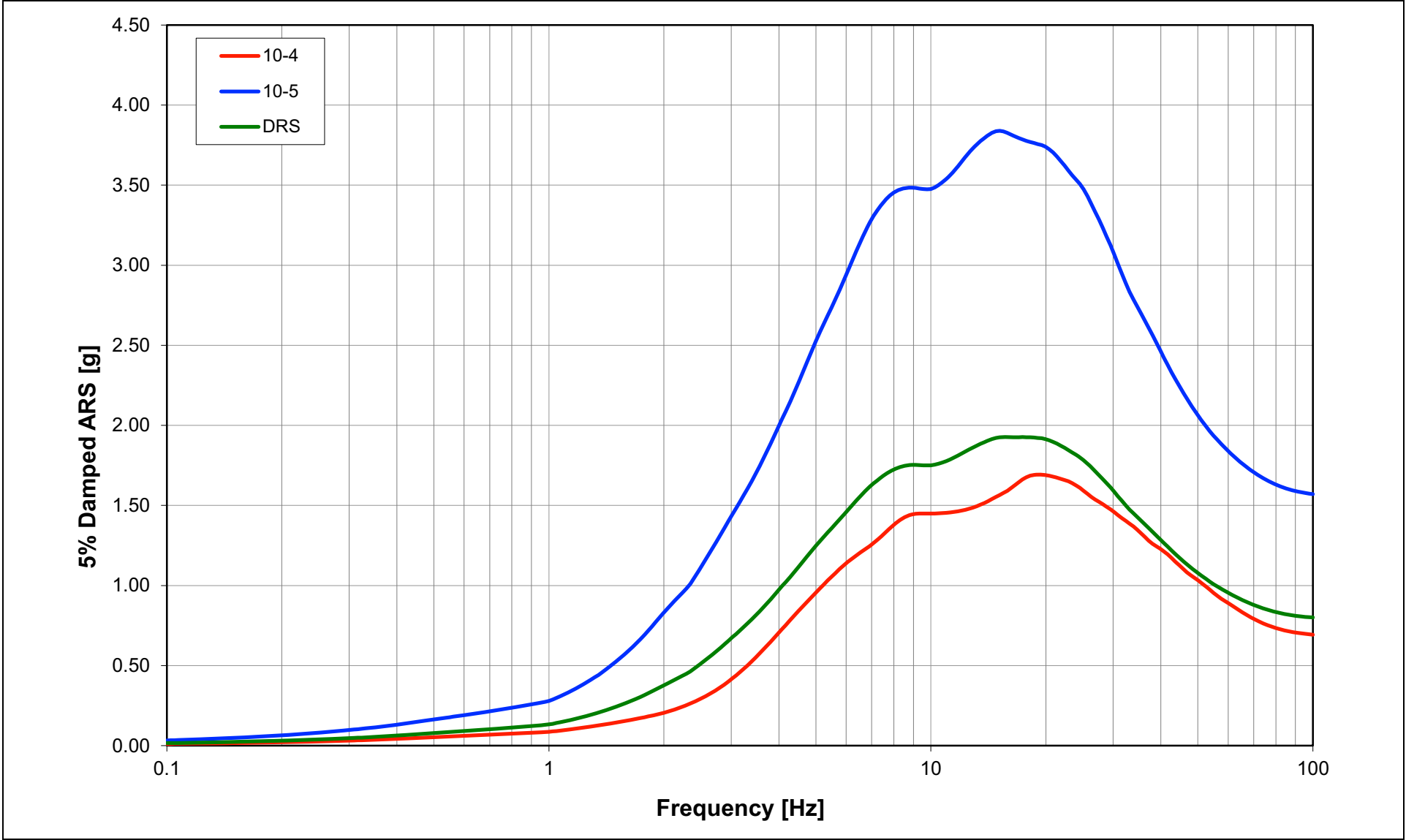
NAPS COL 2.0-27-A    **Figure 2.5.2-304**    Mean Horizontal Partial Column Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Partial Column Outcrop DRS for CB Soil Column at Elevation 241 ft (BoF for CB)



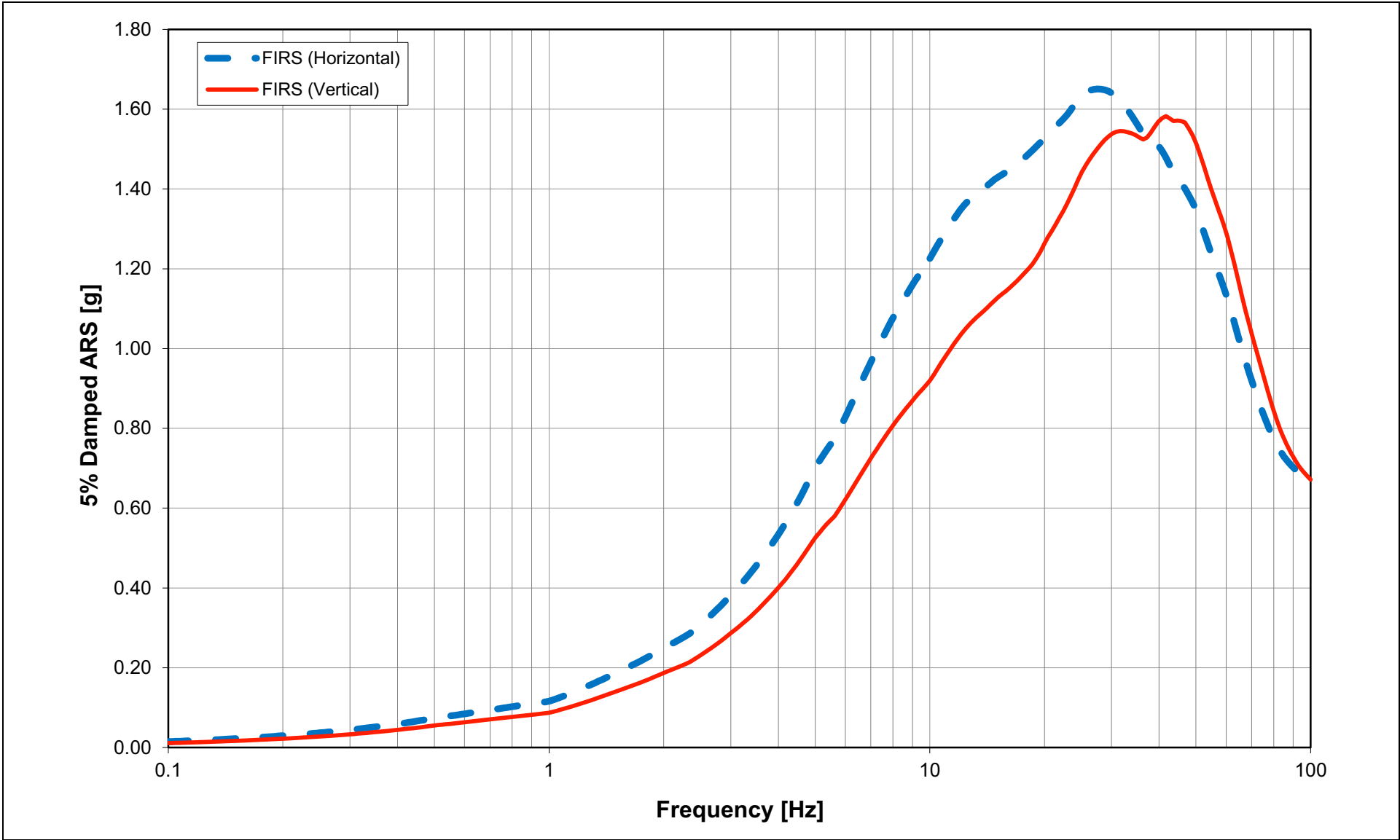
NAPS COL 2.0-27-A    **Figure 2.5.2-305**    Mean Horizontal Geologic Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Geologic Outcrop DRS for CB Soil Column at Elevation 224 ft (GMRS Horizon)



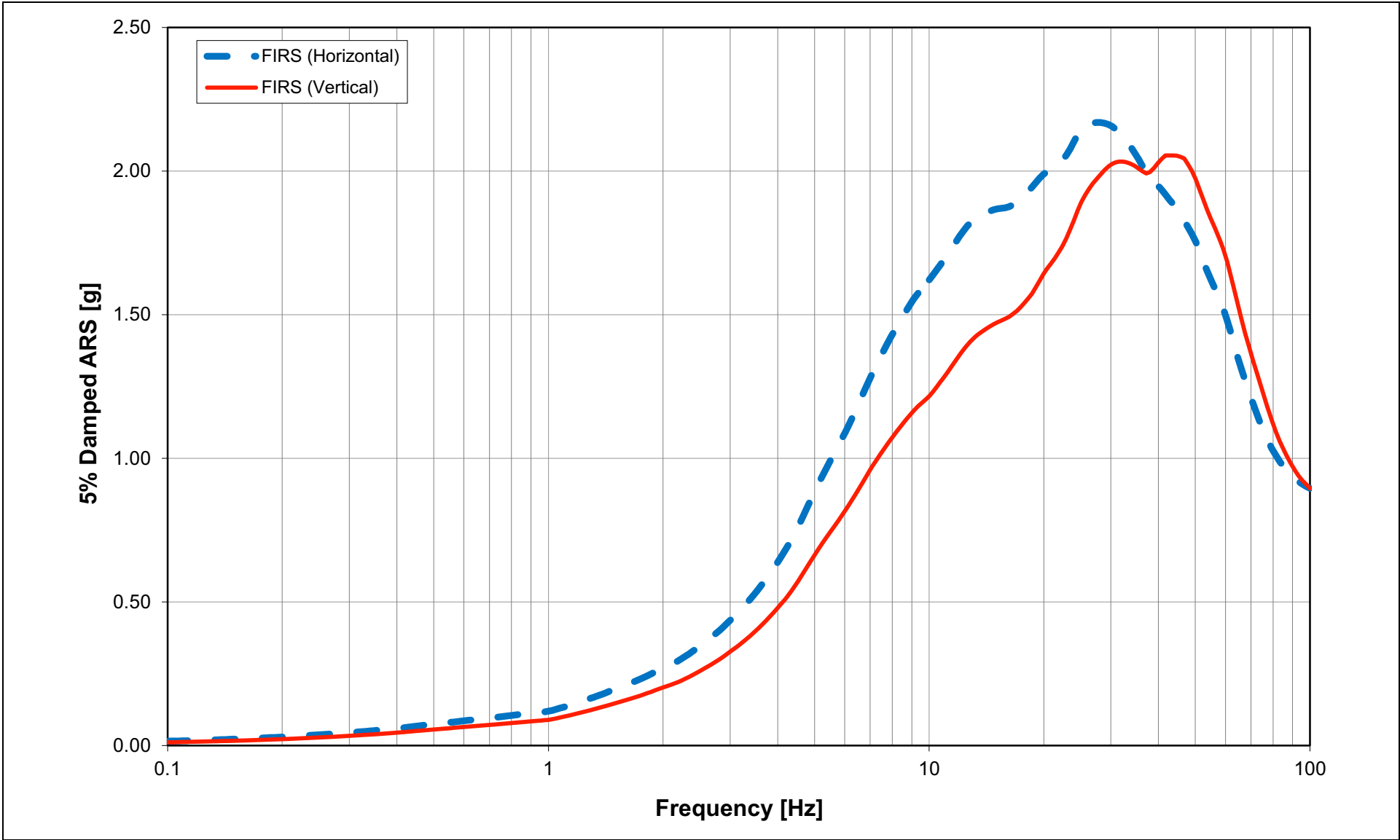
NAPS COL 2.0-27-A    **Figure 2.5.2-306**    Mean Horizontal Geologic Outcrop UHRS at  $10^{-4}$  and  $10^{-5}$  Hazard Levels and Geologic Outcrop DRS for FWSC Soil Column at Elevation 282 ft (BoF for FWSC)



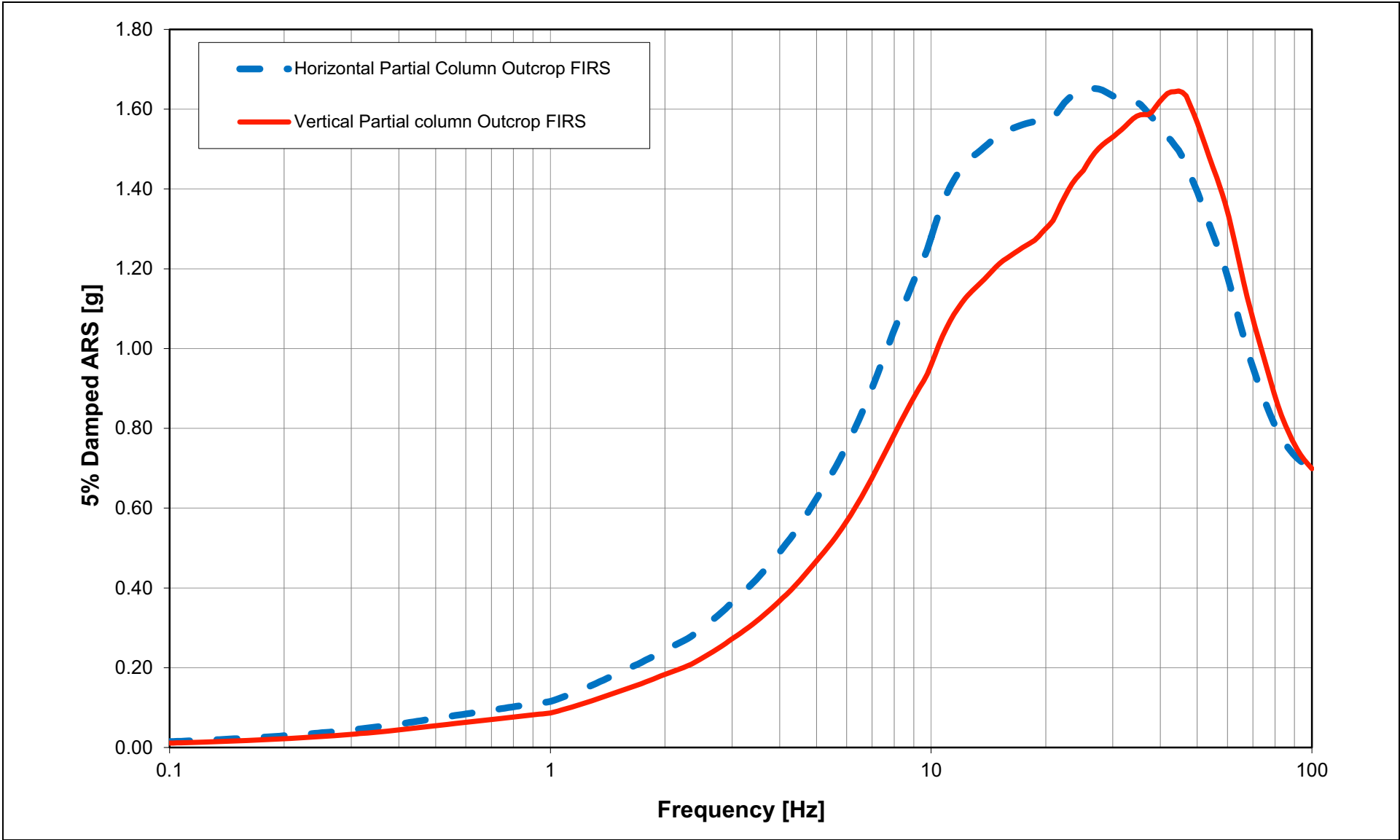
NAPS COL 2.0-27-A    **Figure 2.5.2-307**    Horizontal and Vertical RB/FB Full Column Outcrop FIRS  
NAPS DEP 3.7-1



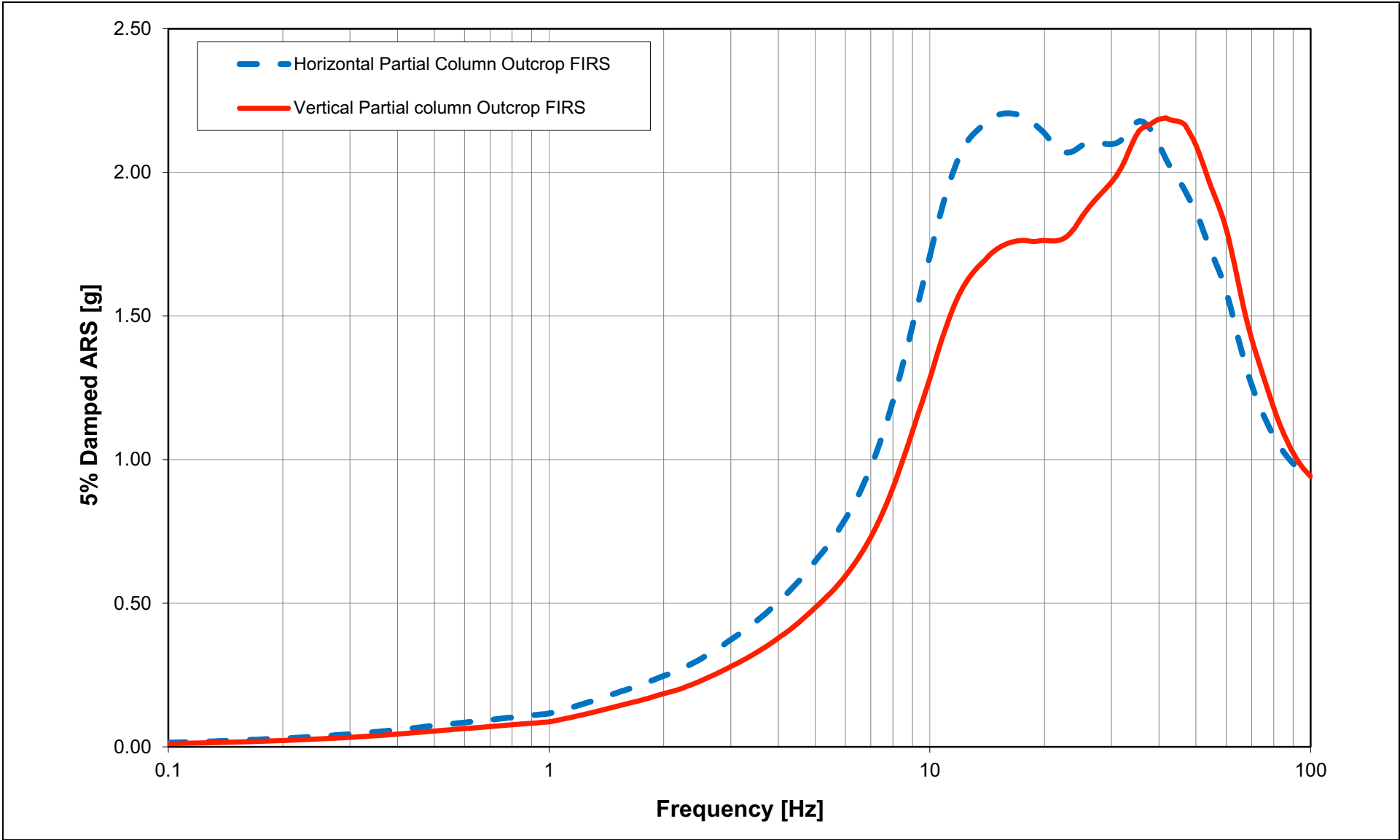
NAPS COL 2.0-27-A    **Figure 2.5.2-308**    Horizontal and Vertical CB Full Column Outcrop FIRS  
NAPS DEP 3.7-1



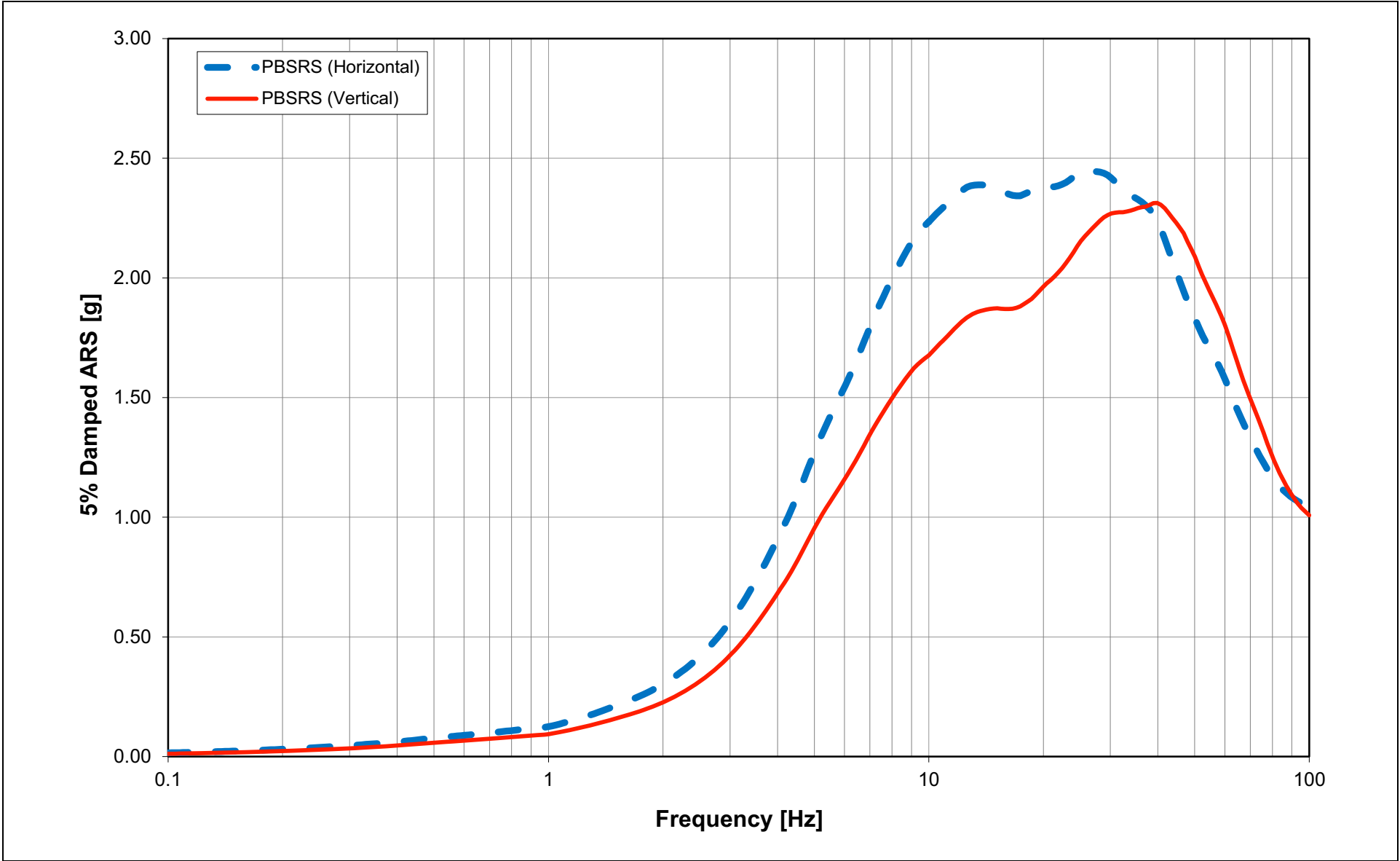
NAPS COL 2.0-27-A    **Figure 2.5.2-309**    Horizontal and Vertical RB/FB Partial Column Outcrop FIRS  
NAPS DEP 3.7-1



NAPS COL 2.0-27-A    **Figure 2.5.2-310**    Horizontal and Vertical CB Full Partial Outcrop FIRS  
NAPS DEP 3.7-1

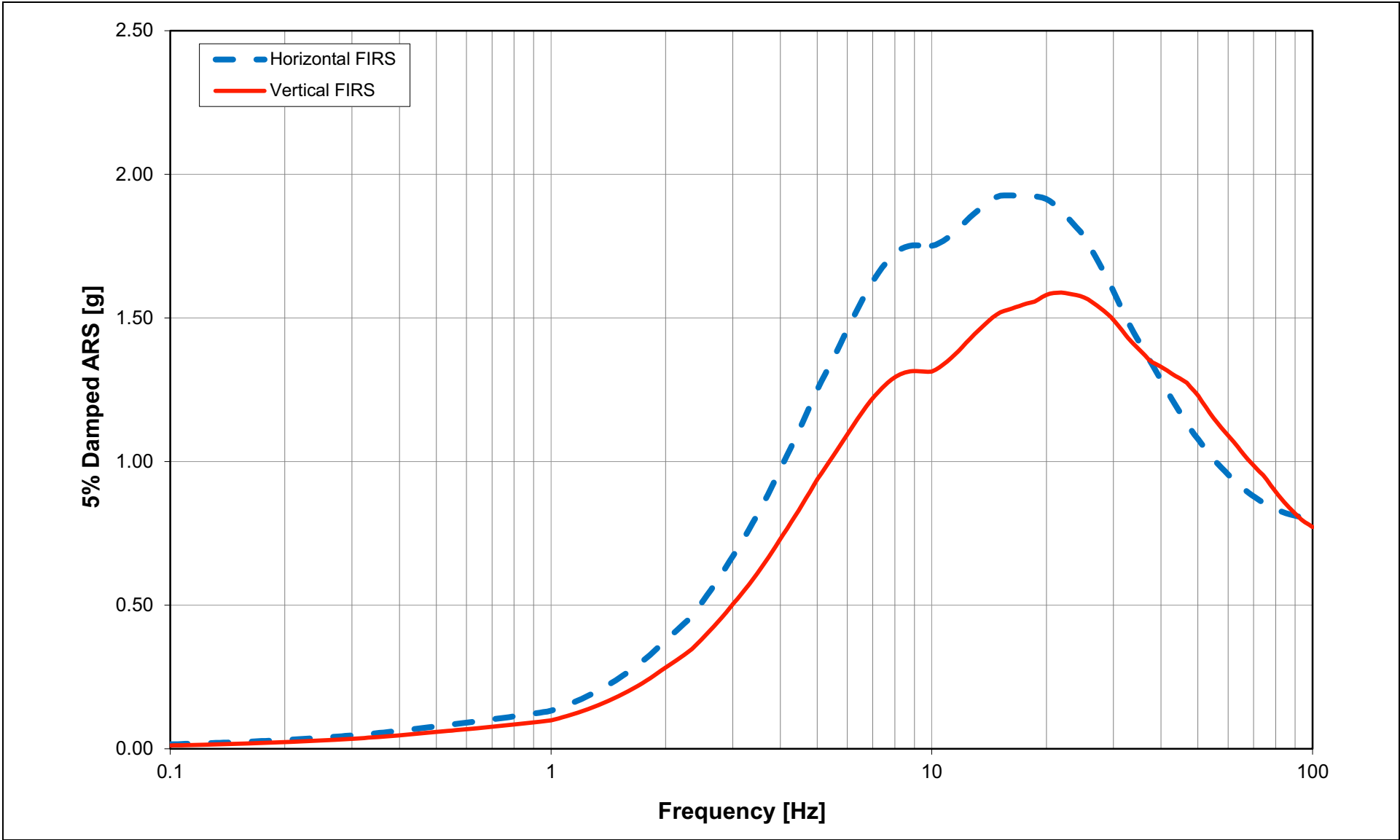


NAPS COL 2.0-27-A    **Figure 2.5.2-311**    Horizontal and Vertical PBSRS for RB/FB and CB

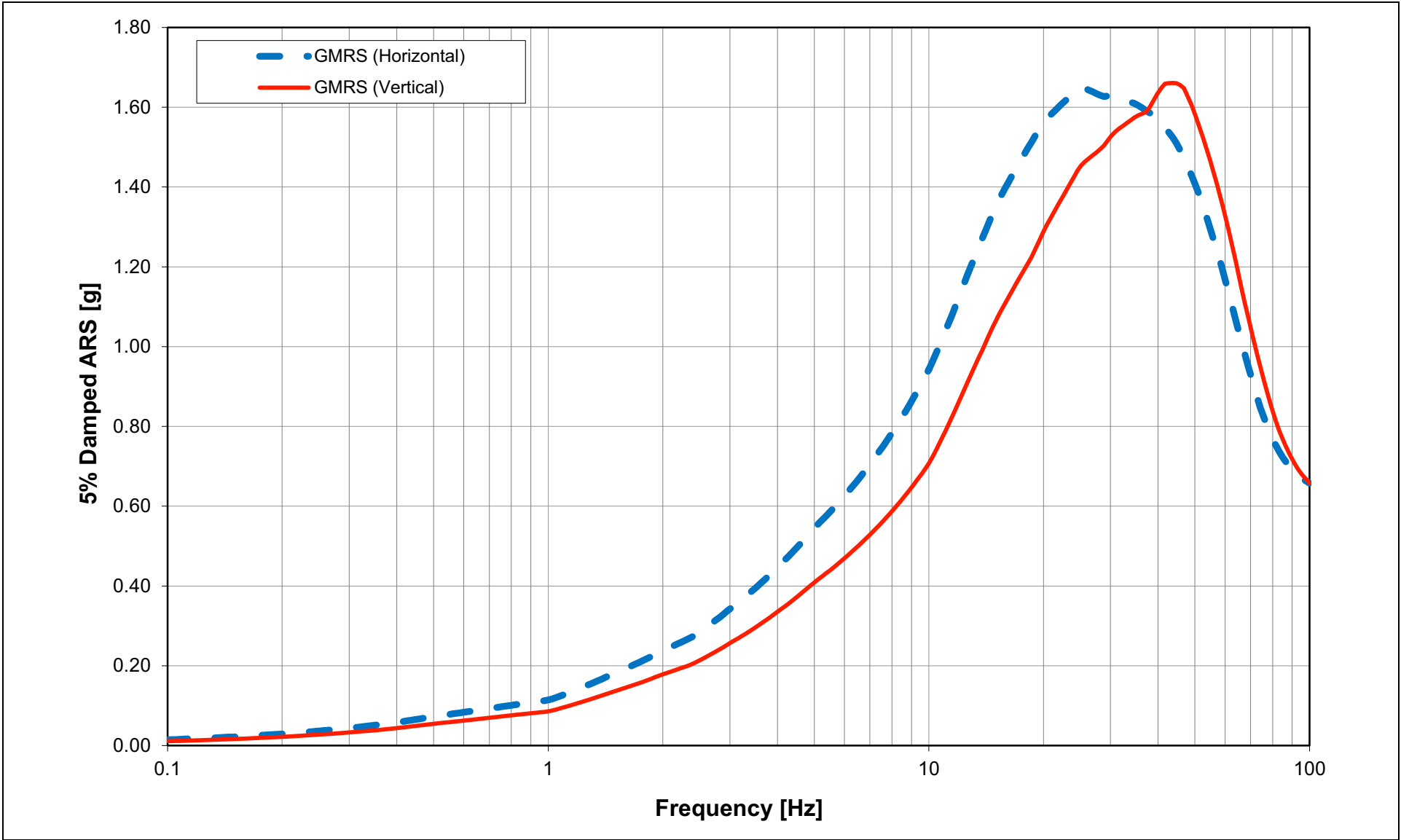




NAPS COL 2.0-27-A    **Figure 2.5.2-312    Horizontal and Vertical FWSC Geologic Outcrop FIRS**  
NAPS DEP 3.7-1

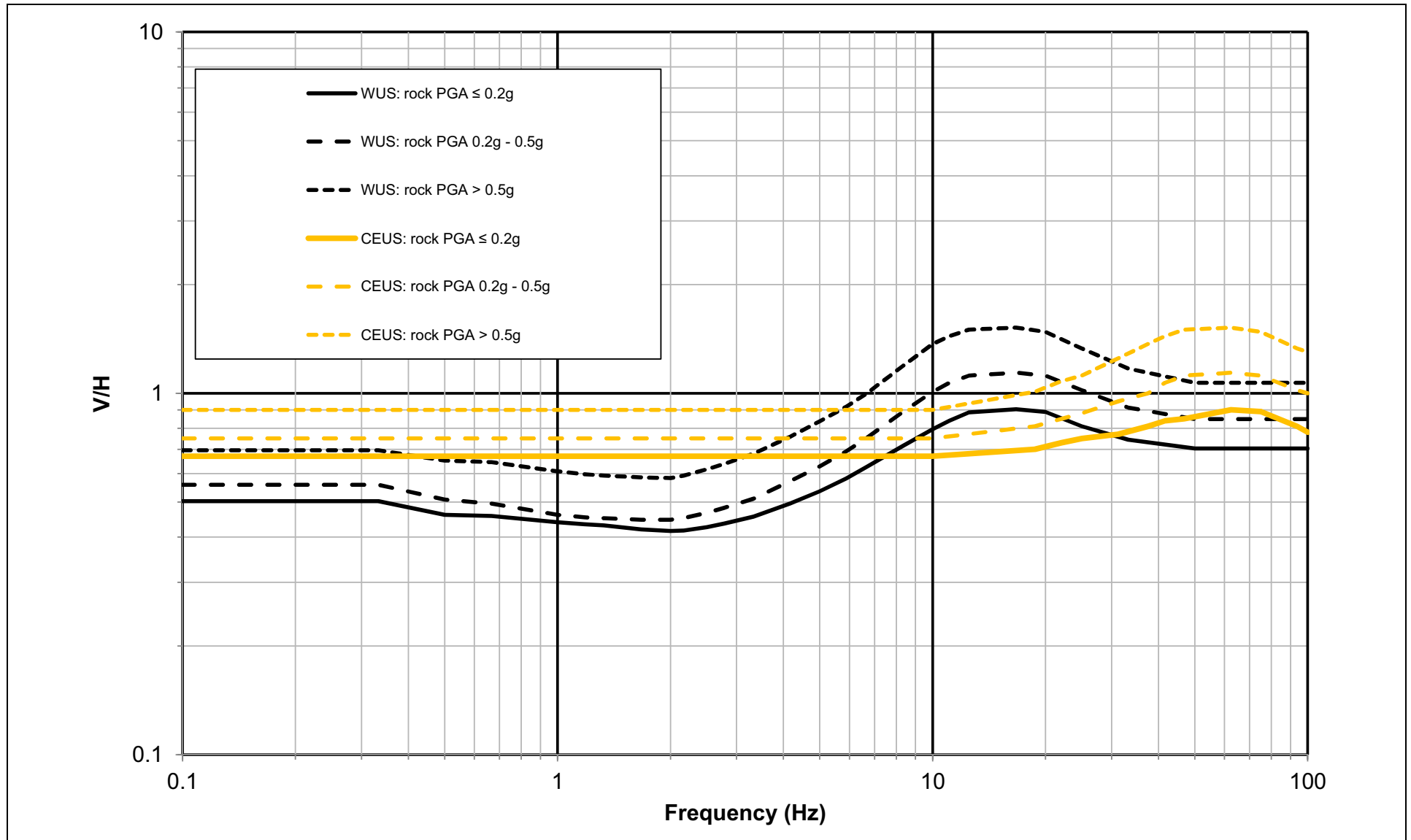


NAPS COL 2.0-27-A    **Figure 2.5.2-313    Horizontal and Vertical GMRS**  
NAPS ESP VAR 2.0-4



BASIS: NEW

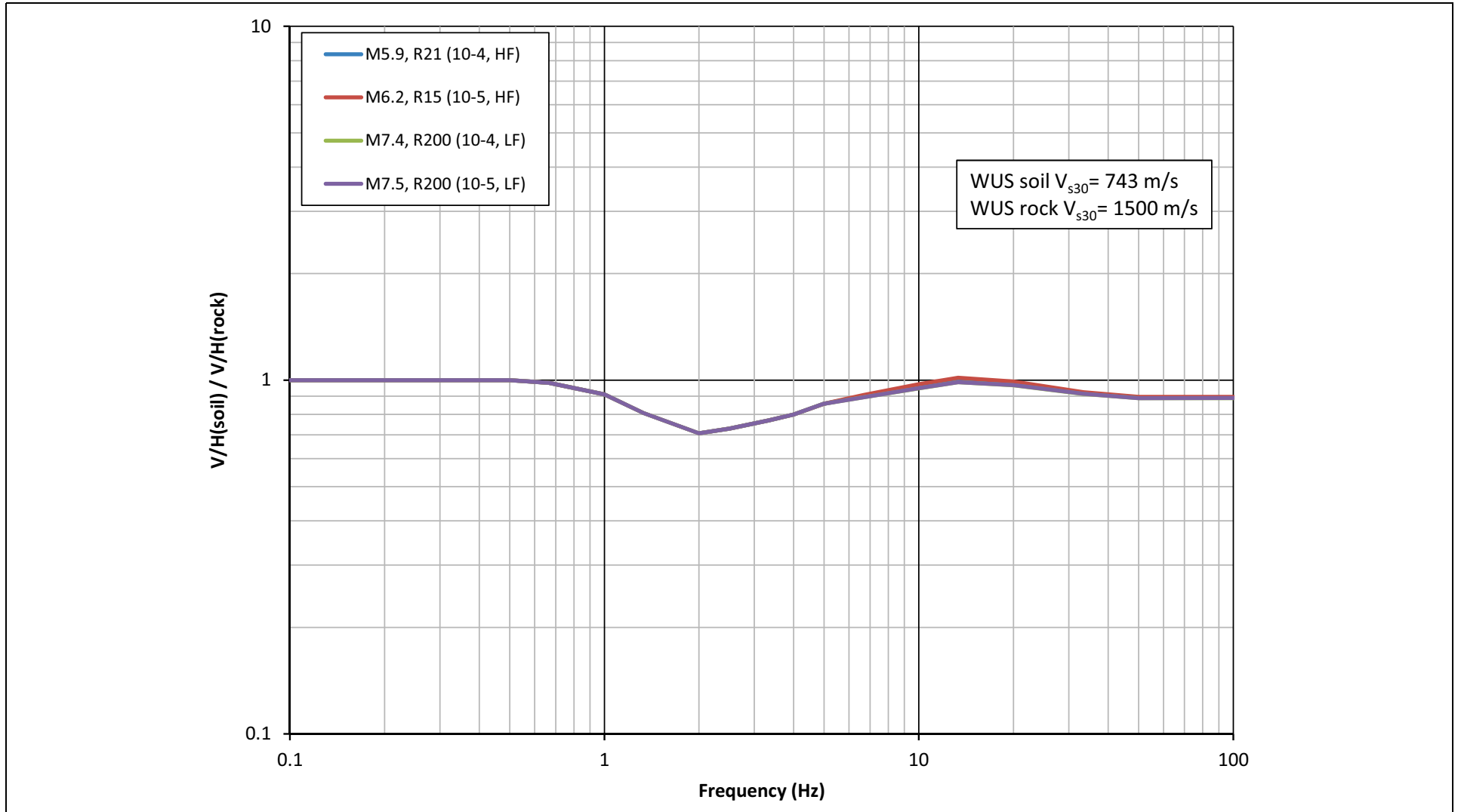
NAPS COL 2.0-27-A Figure 2.5.2-314 Rock V/H Ratios Recommended in NUREG/CR-6728 (Reference 2.5-385)  
NAPS ESP VAR 2.0-4



BASIS: NEW

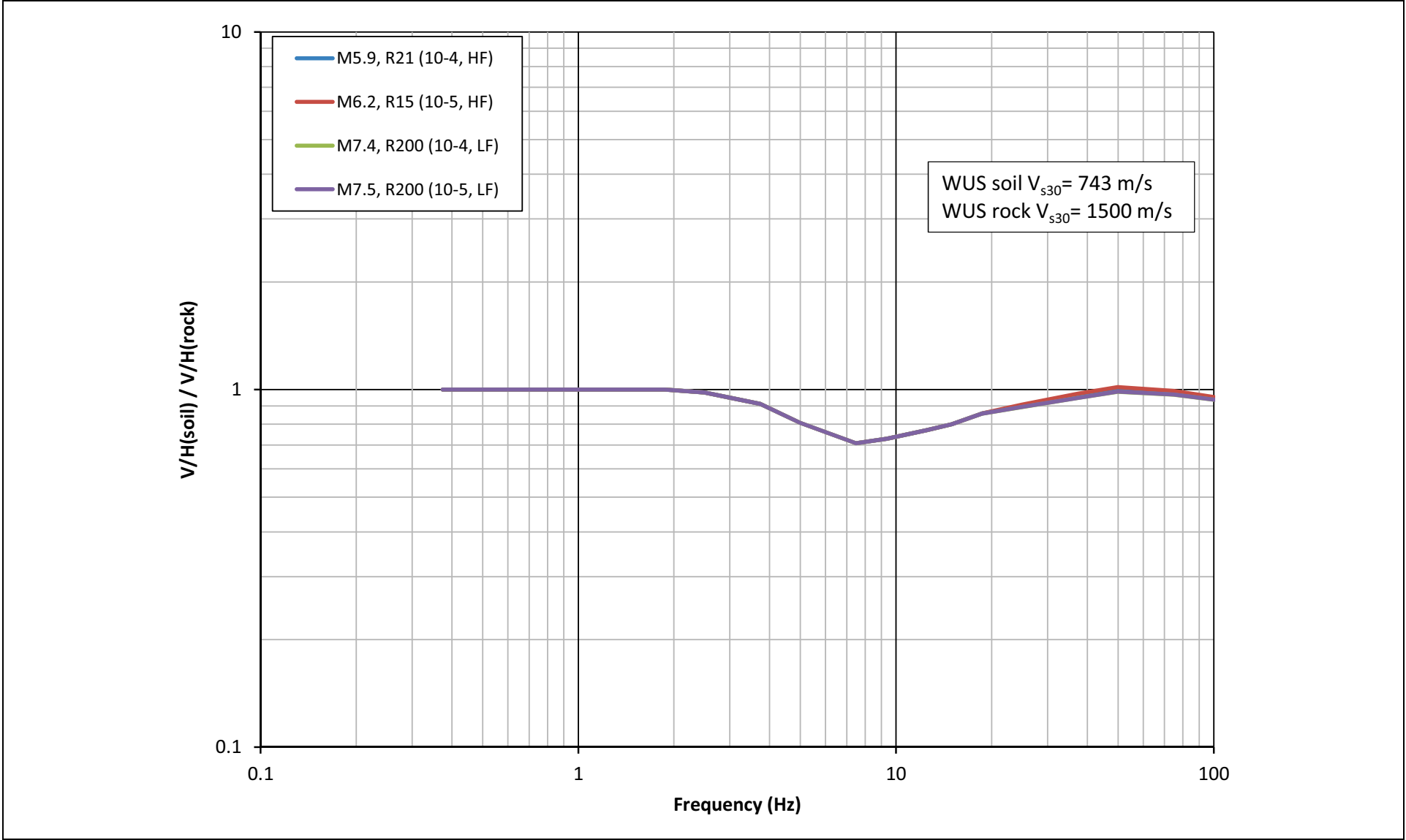
NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

Figure 2.5.2-315  $V/H_{WUS,soil} / V/H_{WUS,rock} (f(\text{Rock-to-Soil}))$  from GA11 V/H Model for the Suite of Controlling Magnitudes and Distances for Soil  $V_{s30}$  of 2,439 ft/s (743 m/s) and Rock  $V_{s30}$  of ~5,000 ft/s (1,500 m/s)



NOTE: The LF distances have been capped to the maximum applicable distance (200 km) of the GA11 V/H model ([Reference 2.5-388](#))

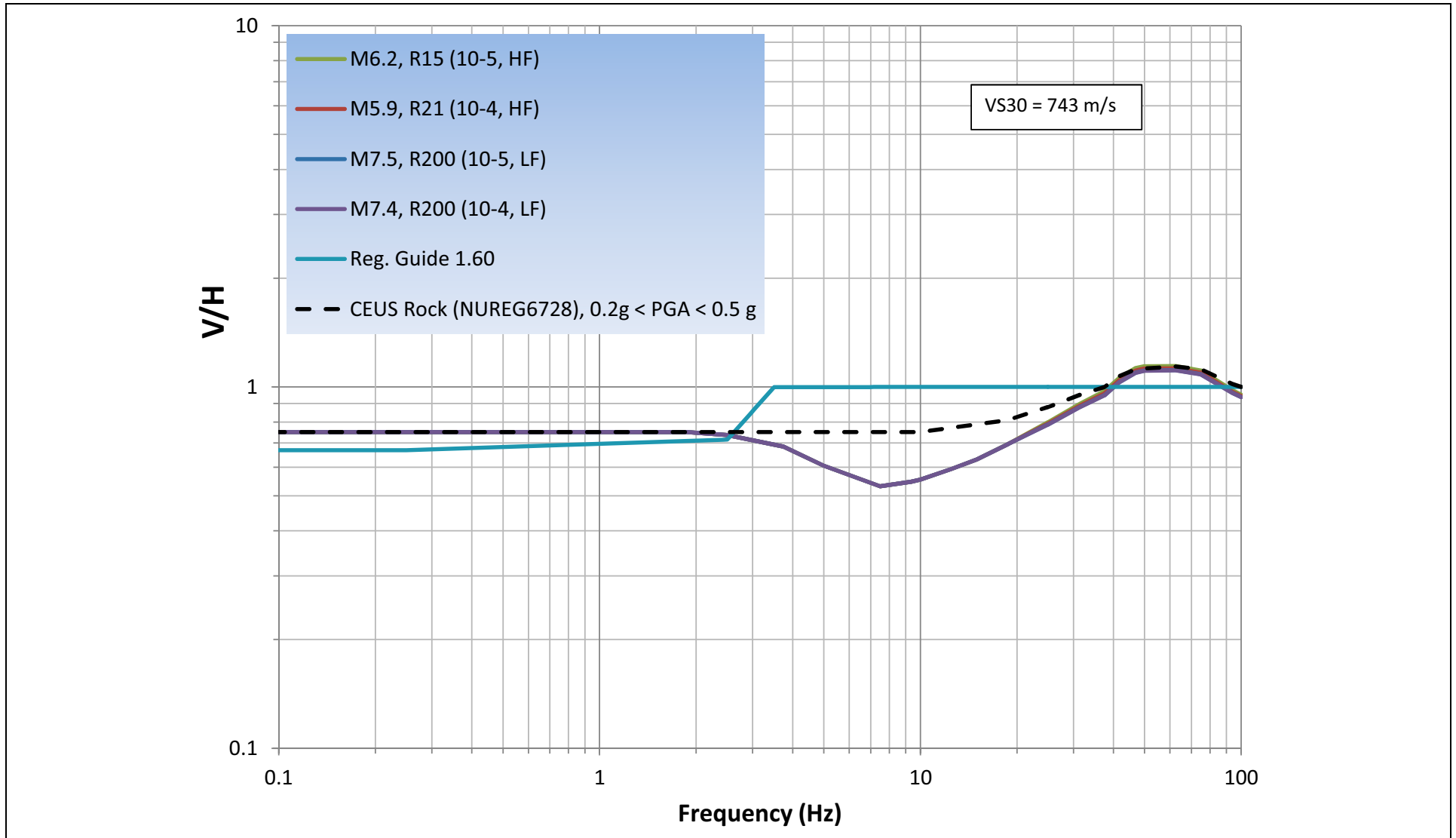
NAPS COL 2.0-27-A    **Figure 2.5.2-316**    Frequency-Shifted Versions of  $V/H_{WUS,soil} / V/H_{WUS,rock} (f(\text{Rock-to-Soil}) \times f(\text{WUS-to-CEUS}))$  from  
NAPS ESP VAR 2.0-4    **Figure 2.5.2-315**



BASIS: NEW

NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

Figure 2.5.2-317 Initial  $V/H_{\text{CEUS,soil}}$  for a Suite of Controlling Magnitudes and Distances and  $V_{S30}$  of 2,439 ft/s (743 m/s)

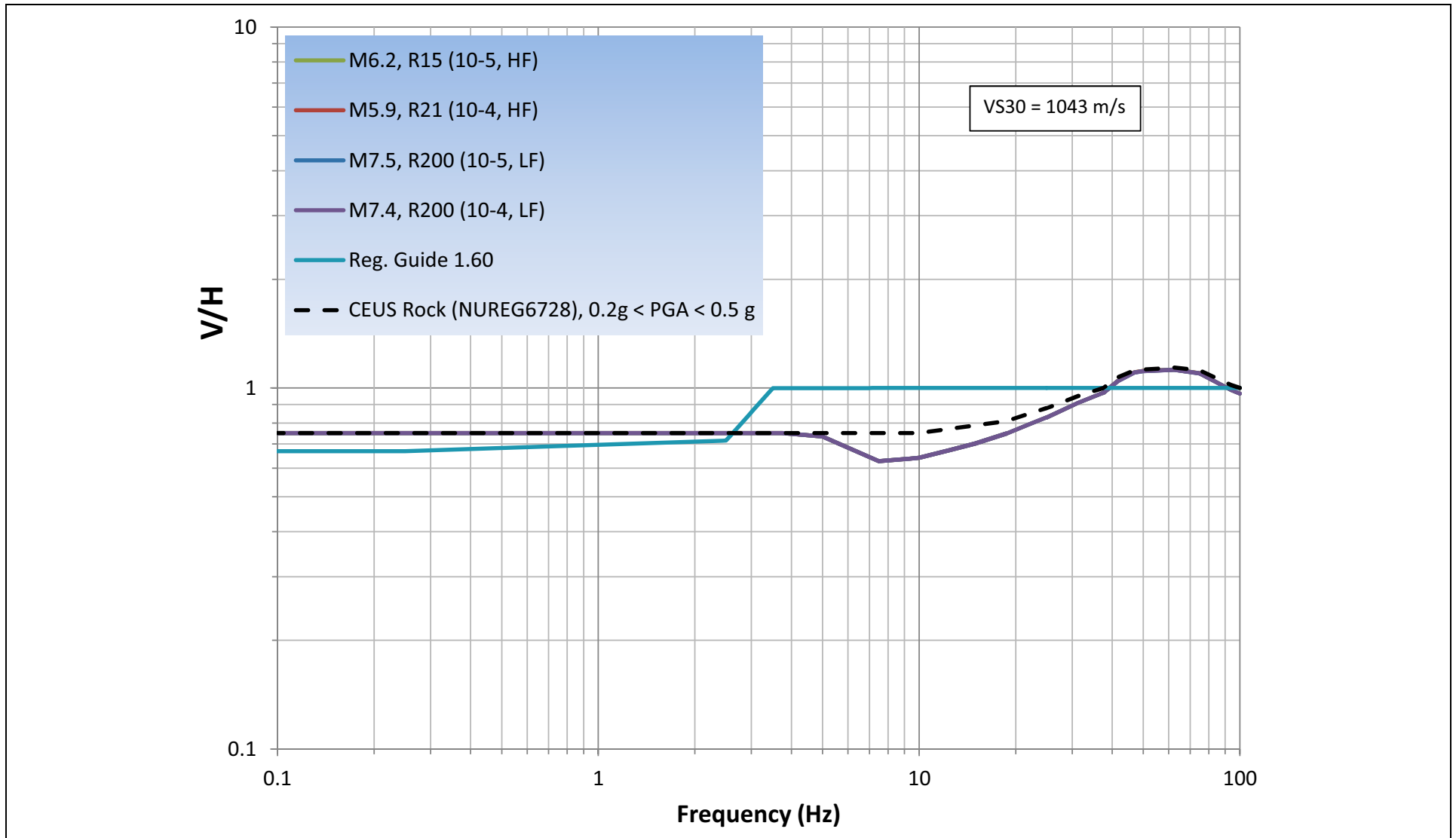


NOTE: Applicable  $V/H_{\text{CEUS,rock}}$  and the  $V/H$  from RG 1.60 are shown for comparison.

BASIS: NEW

NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

Figure 2.5.2-318 Initial  $V/H_{\text{CEUS,soil}}$  for a Suite of Controlling Magnitudes and Distances and  $V_{S30}$  of 3,423 ft/s (1,043 m/s)

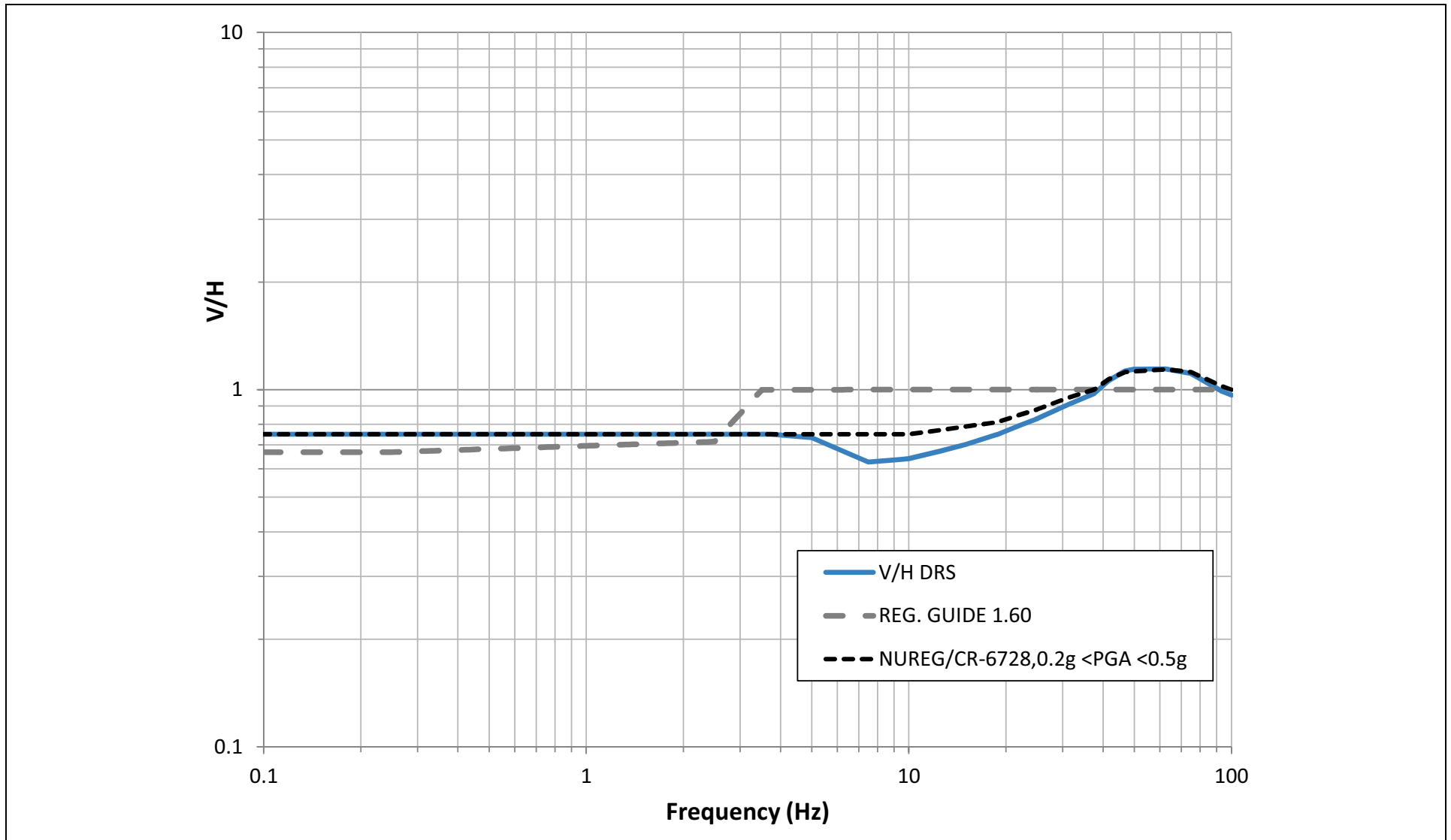


NOTE: Applicable  $V/H_{\text{CEUS,rock}}$  and the  $V/H$  from RG 1.60 are shown for comparison.

BASIS: NEW

NAPS COL 2.0-27-A  
NAPS ESP VAR 2.0-4

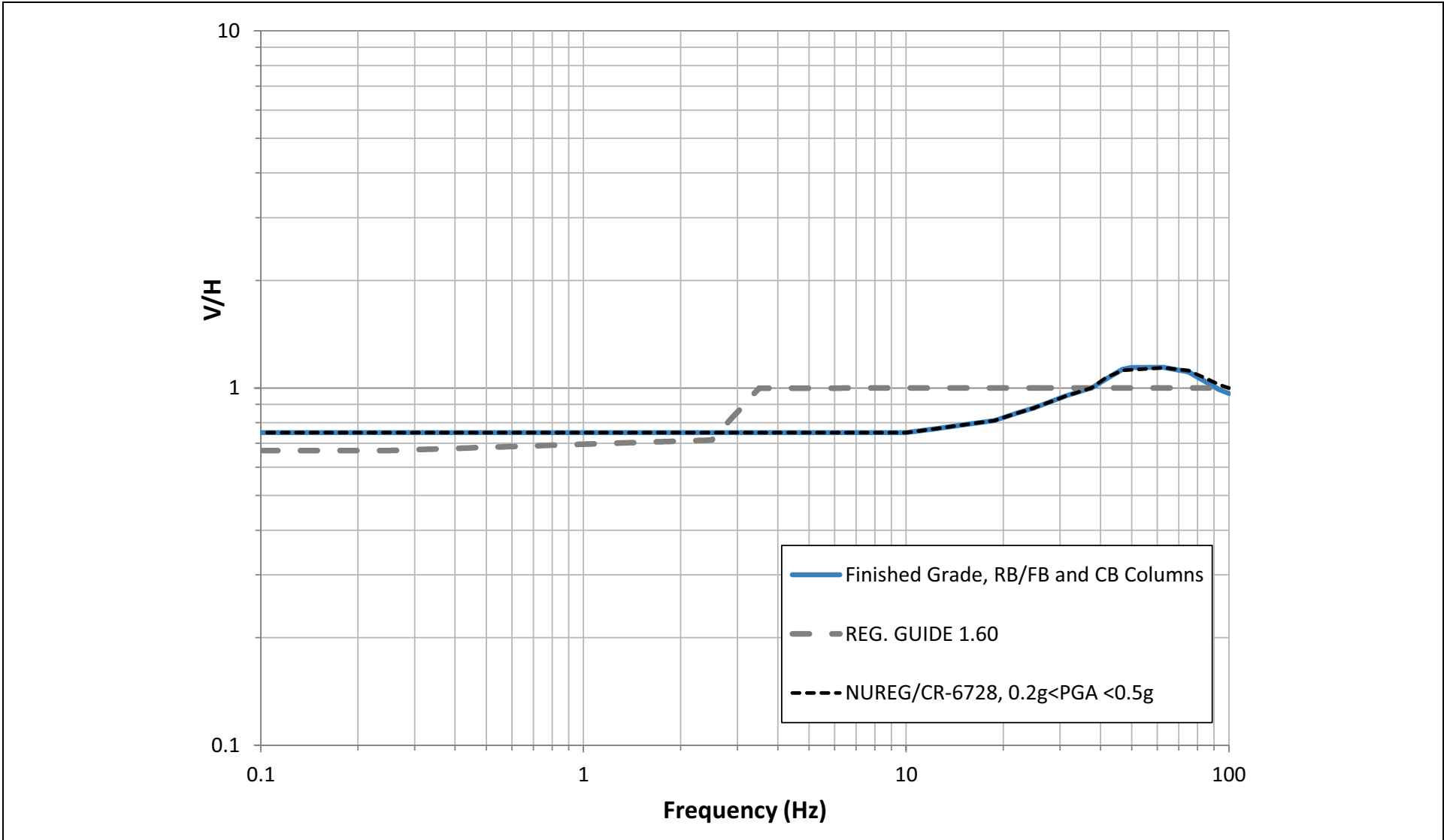
Figure 2.5.2-319 Initial PBSRS  $V/H_{CEUS,soil}$  Is the Envelope of 8  $V/H$  curves (Figures 2.5.2-317 and 2.5.2-318)



NOTE: Applicable  $V/H_{CEUS,rock}$  and the  $V/H$  from RG 1.60 are shown for comparison.



NAPS COL 2.0-27-A    **Figure 2.5.2-320    Final PBSRS  $V/H_{CEUS,soil}$  Where Mid-Frequency Dip Has Been Removed**  
NAPS ESP VAR 2.0-4



NOTE: Applicable  $V/H_{CEUS,rock}$  and the  $V/H$  from RG 1.60 are shown for comparison.