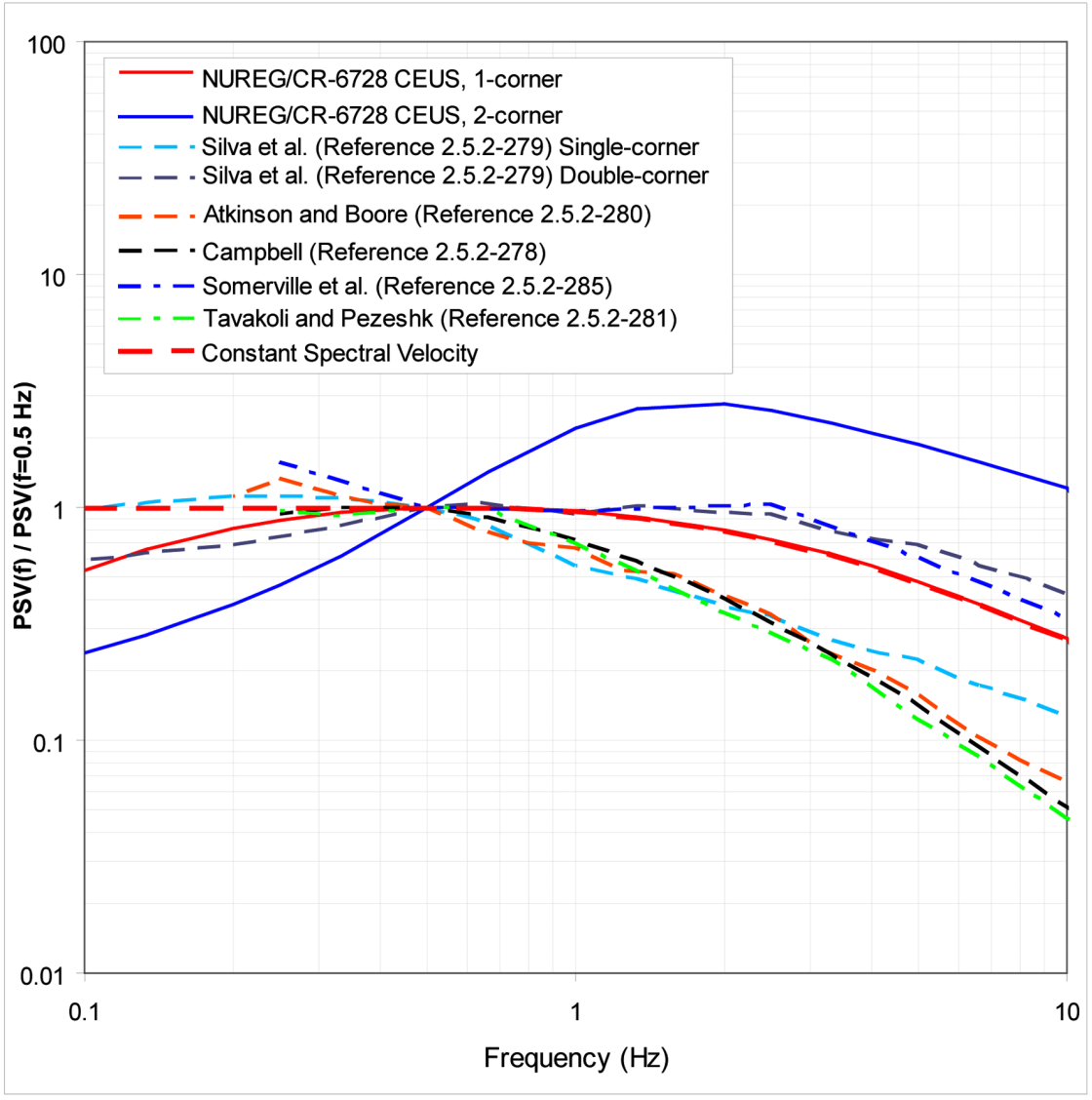


Figure 2.5.2-251. Extension of Response Spectra to 0.1 Hz

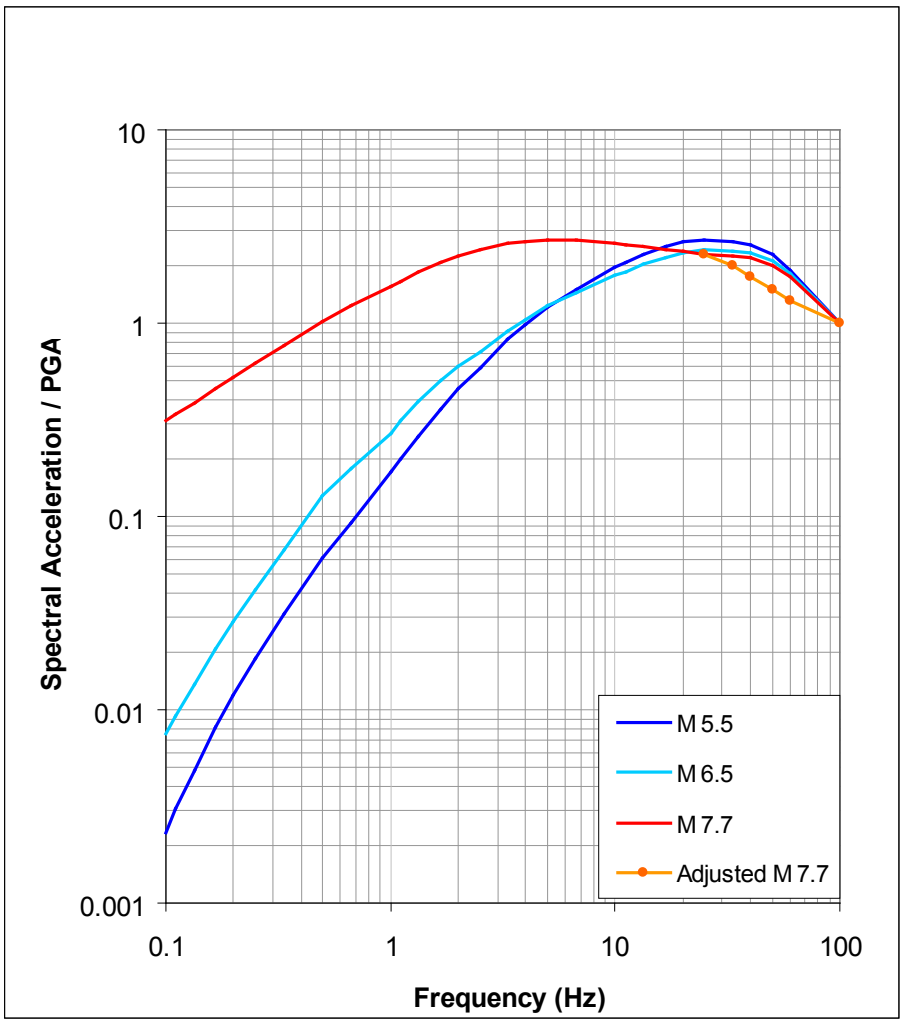


Figure 2.5.2-252. Response Spectral Shapes Used for Site Response

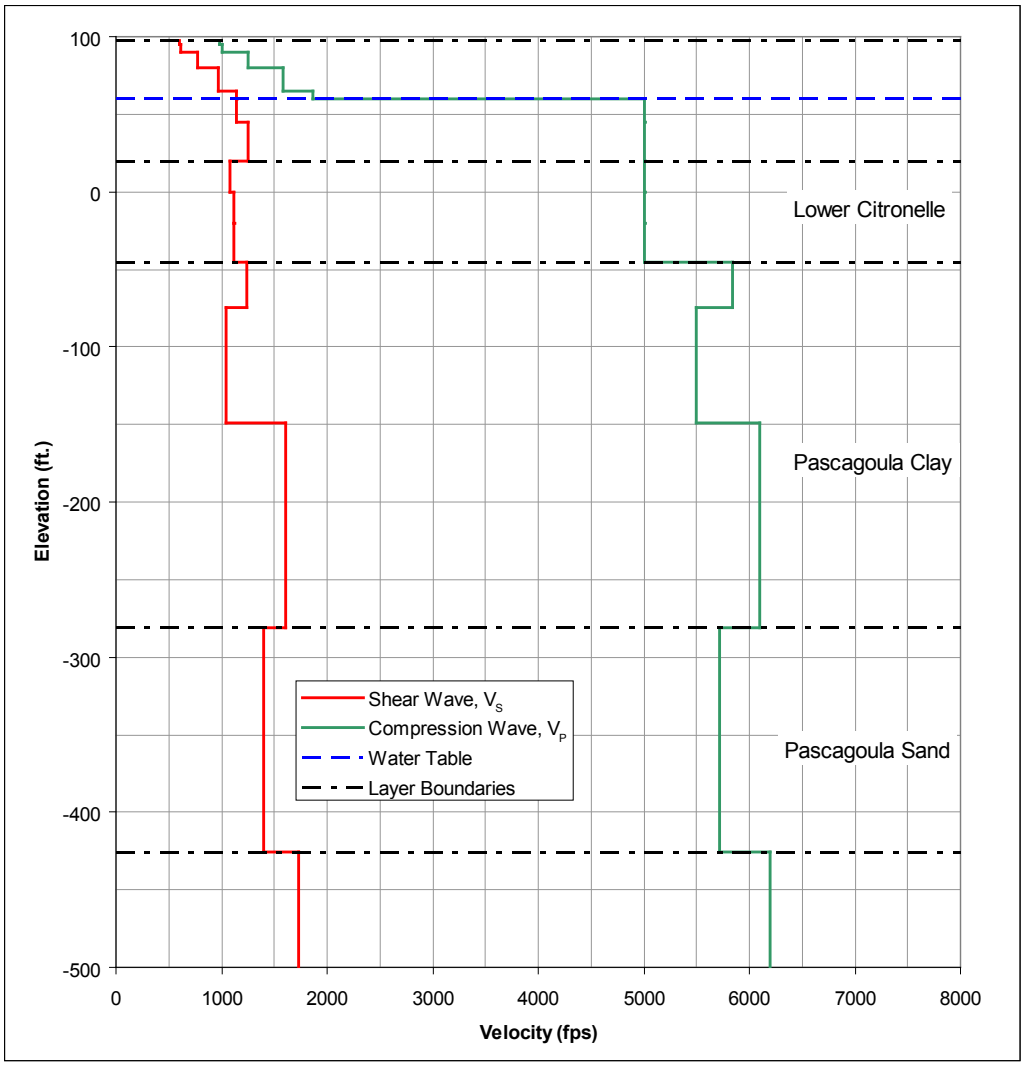


Figure 2.5.2-253. RBS Site Design Seismic Velocity Profile Revision 0

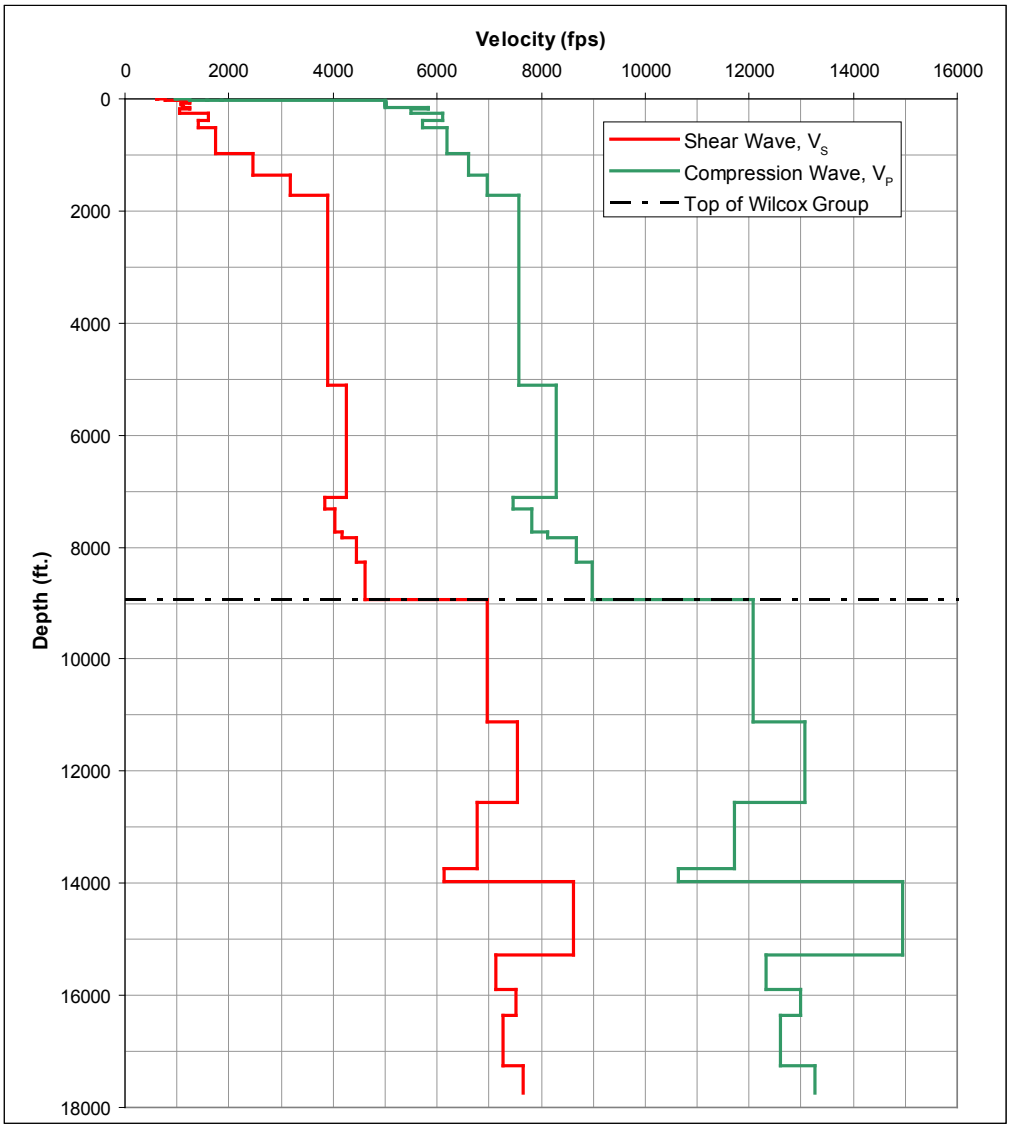
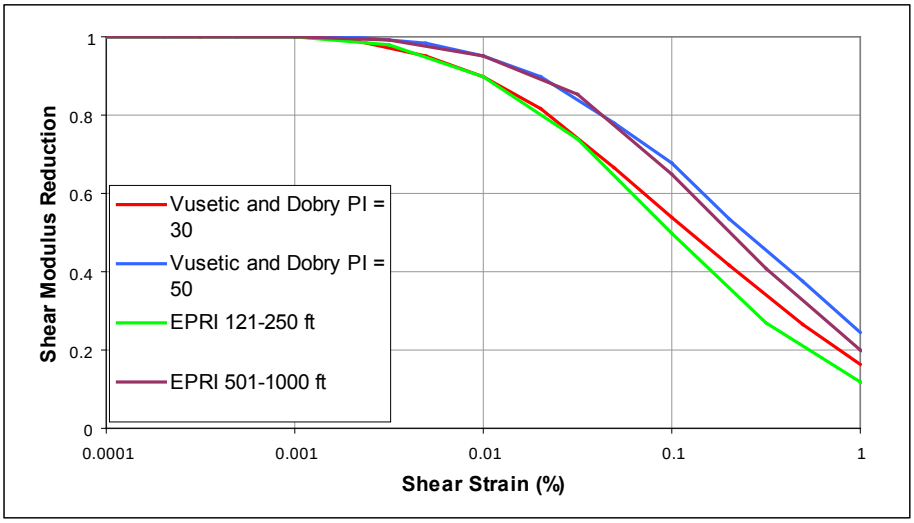


Figure 2.5.2-254. RBS Site Design Seismic Velocity Profile at Depth



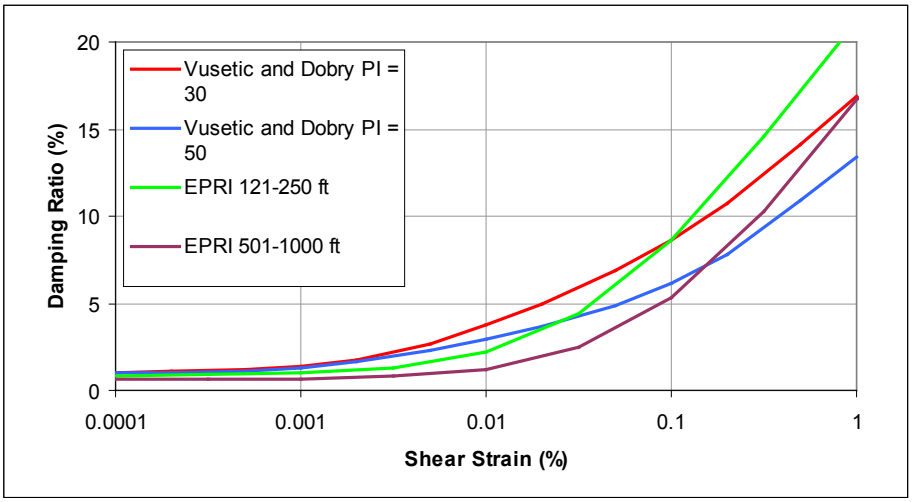


Figure 2.5.2-255. Modulus Reduction and Damping Relationships Used in the Site Response Analysis

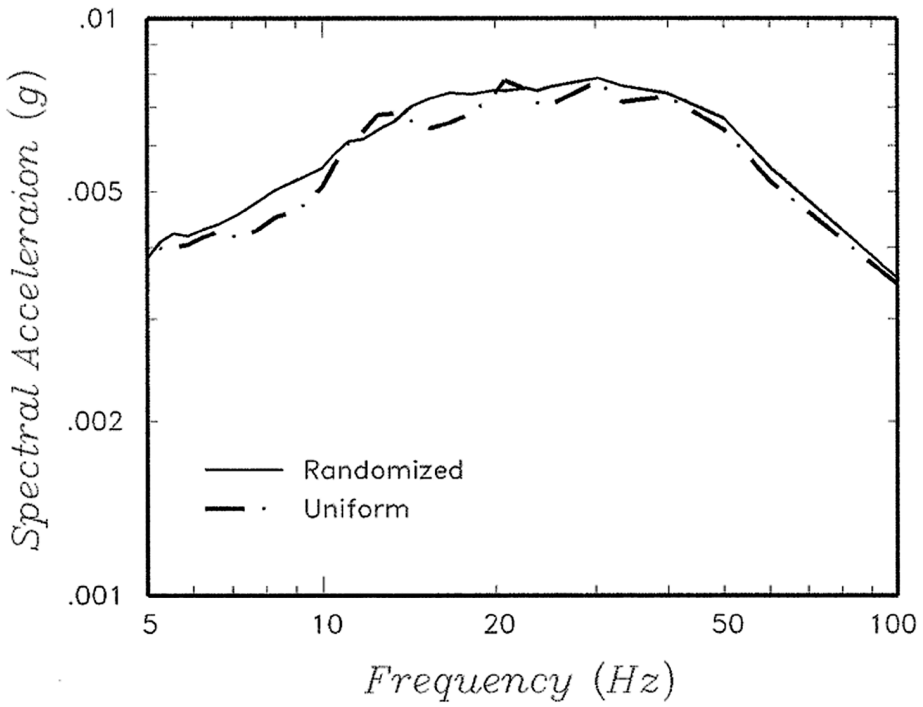


Figure 2.5.2-256. Assessment of Scattering κ

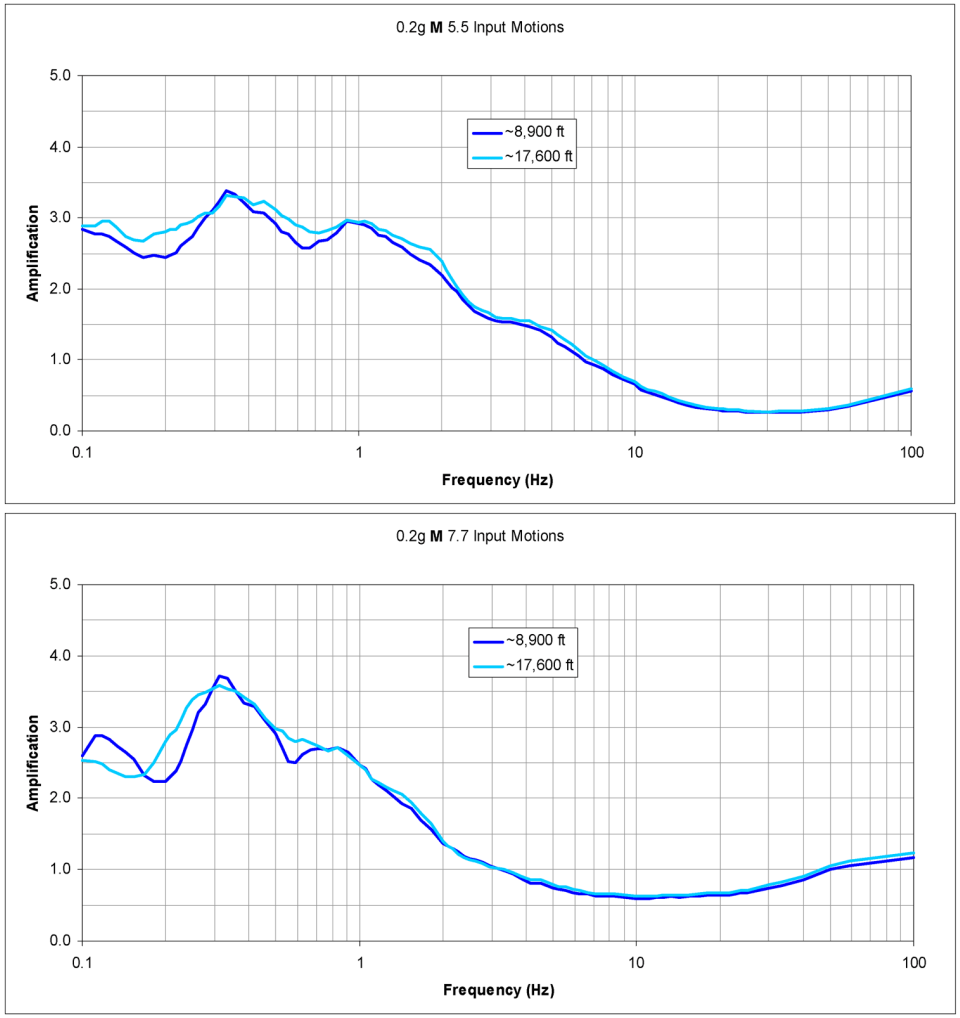


Figure 2.5.2-257. Sensitivity of Site Amplification to Profile Depth

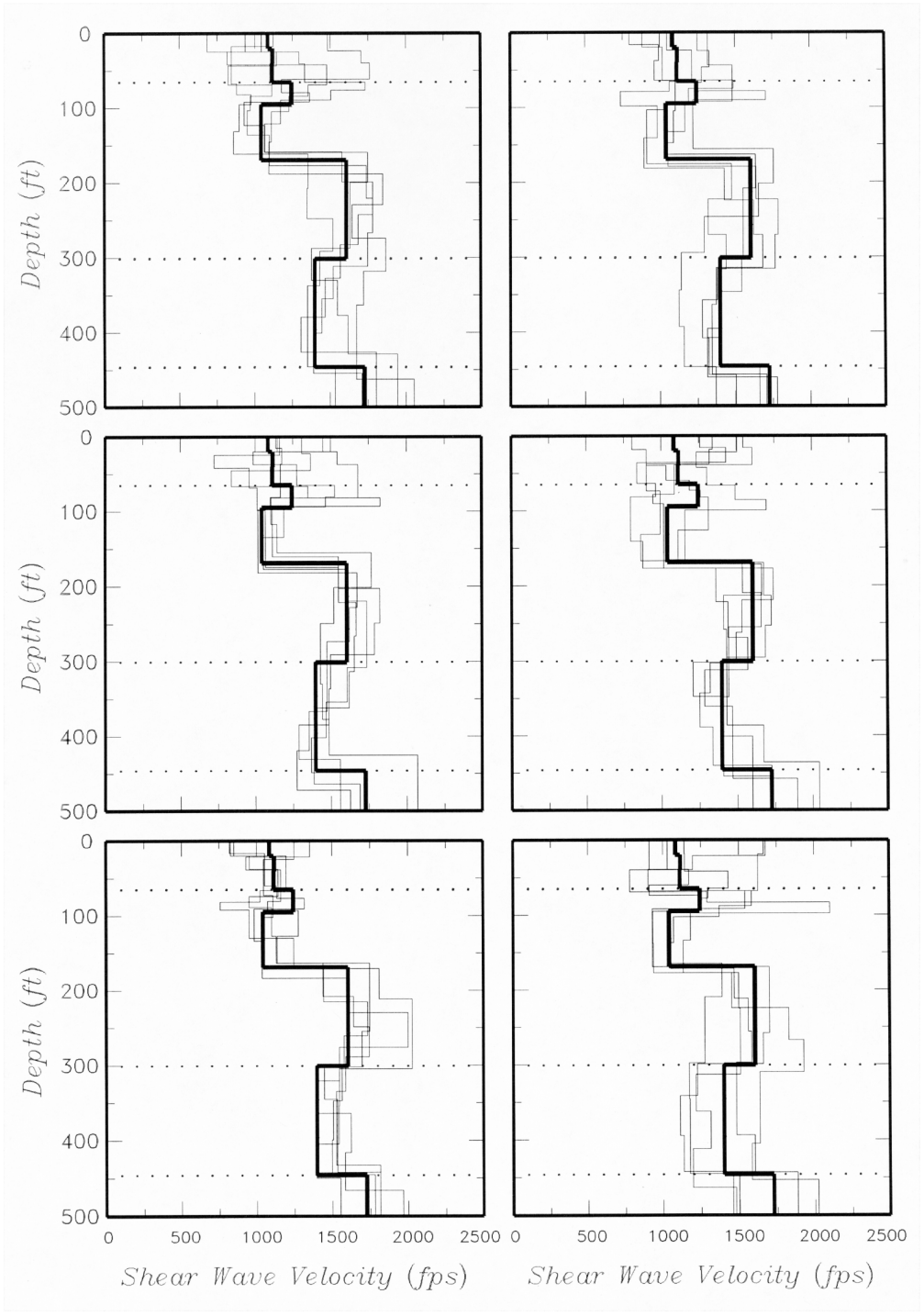


Figure 2.5.2-258. Randomized Velocity Profiles 1-30 for the GMRS Analysis

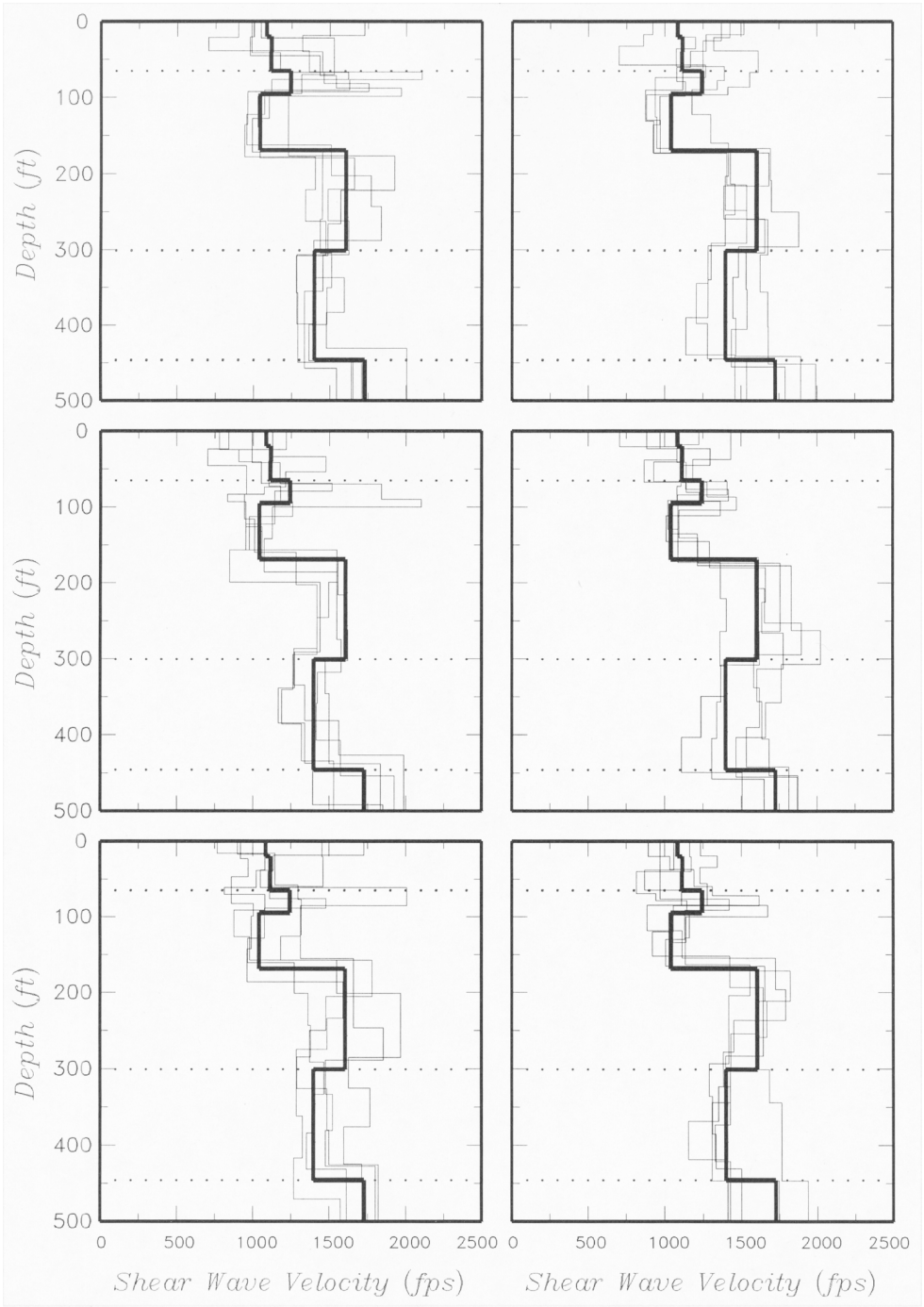


Figure 2.5.2-259. Randomized Velocity Profiles 31-60 for the GMRS Analysis

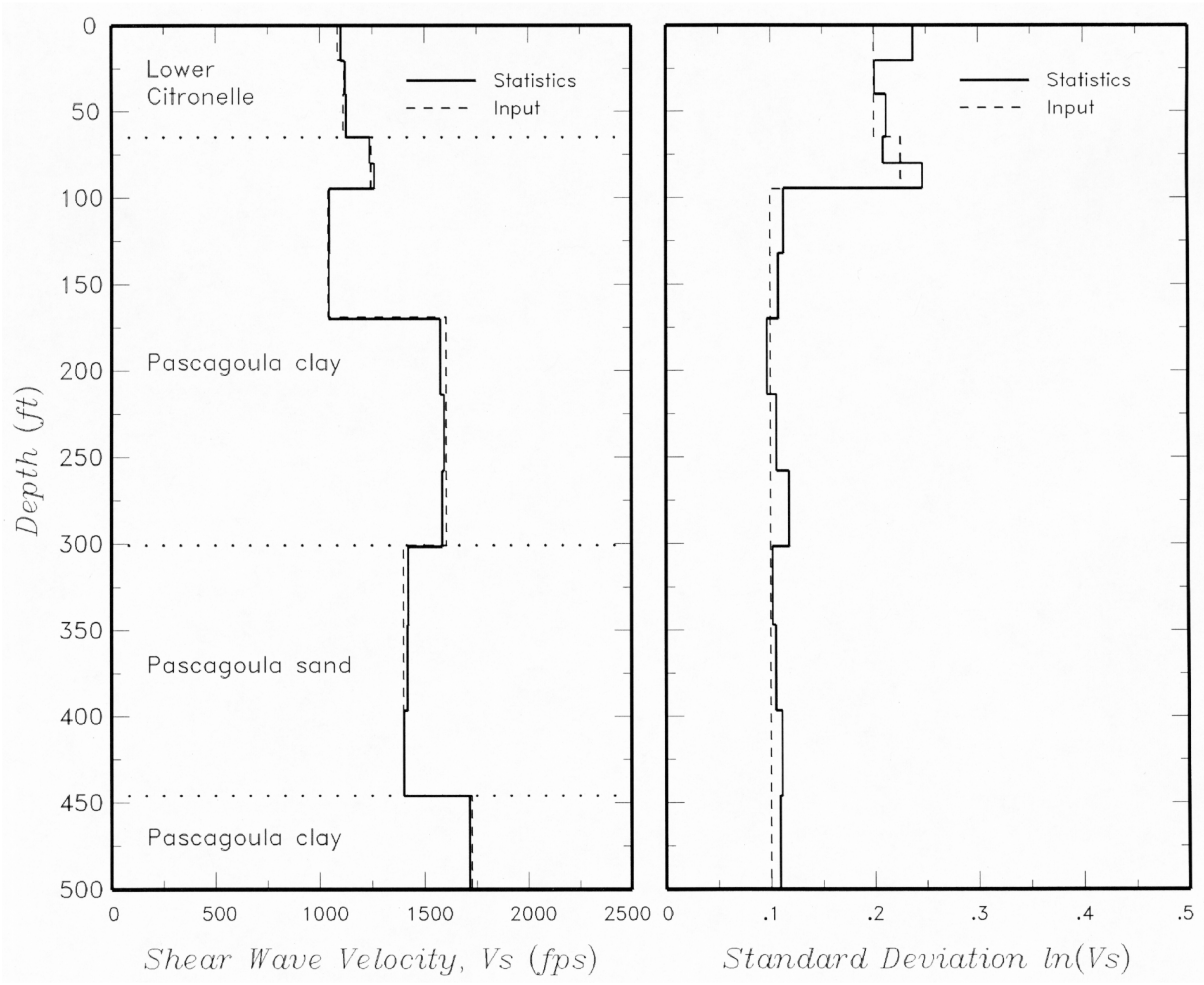


Figure 2.5.2-260. Statistics of Randomized Velocity Profiles for the GMRS Analysis

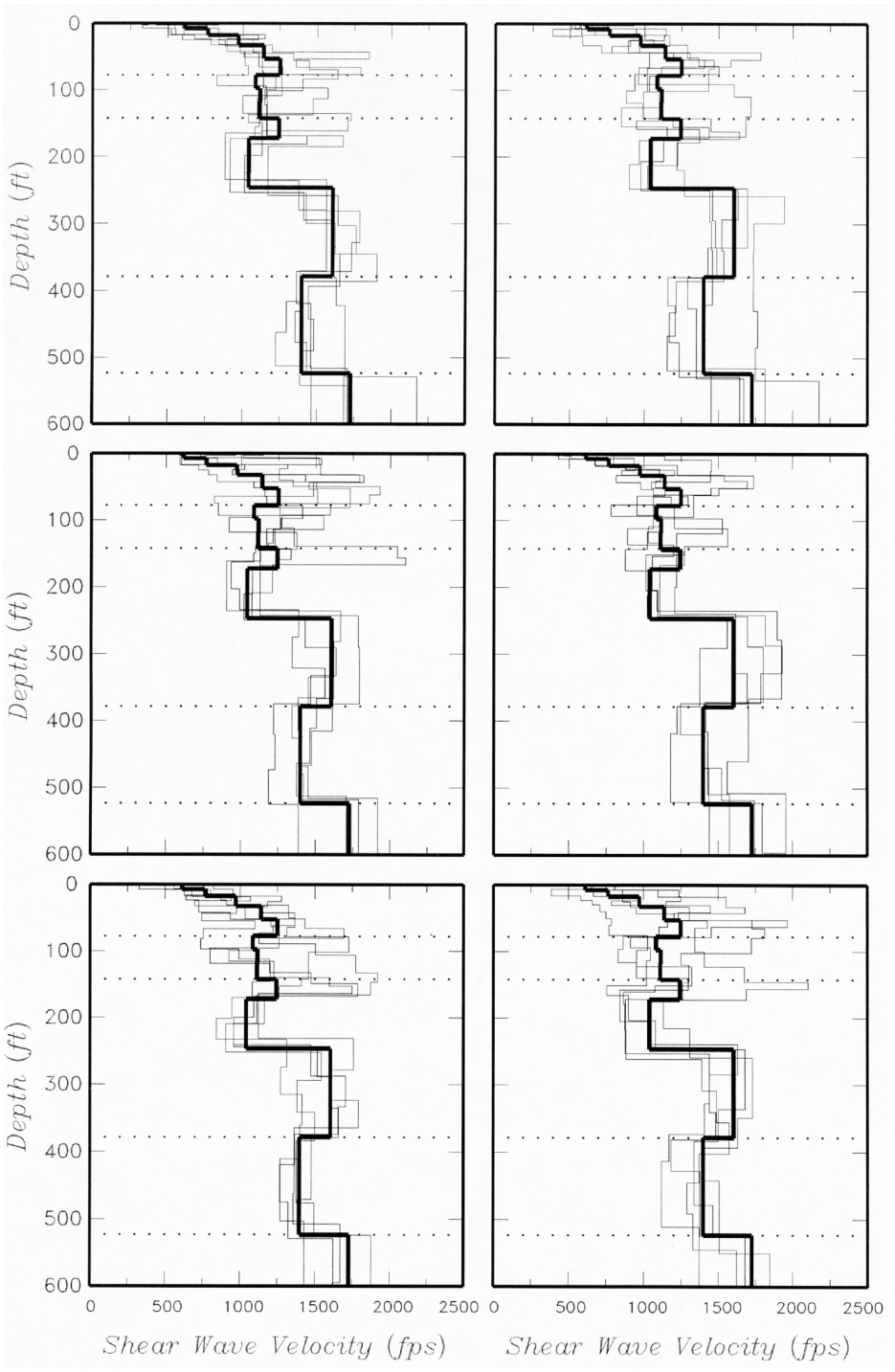


Figure 2.5.2-261. Randomized Velocity Profiles 1-30 for the Finished Grade Analysis

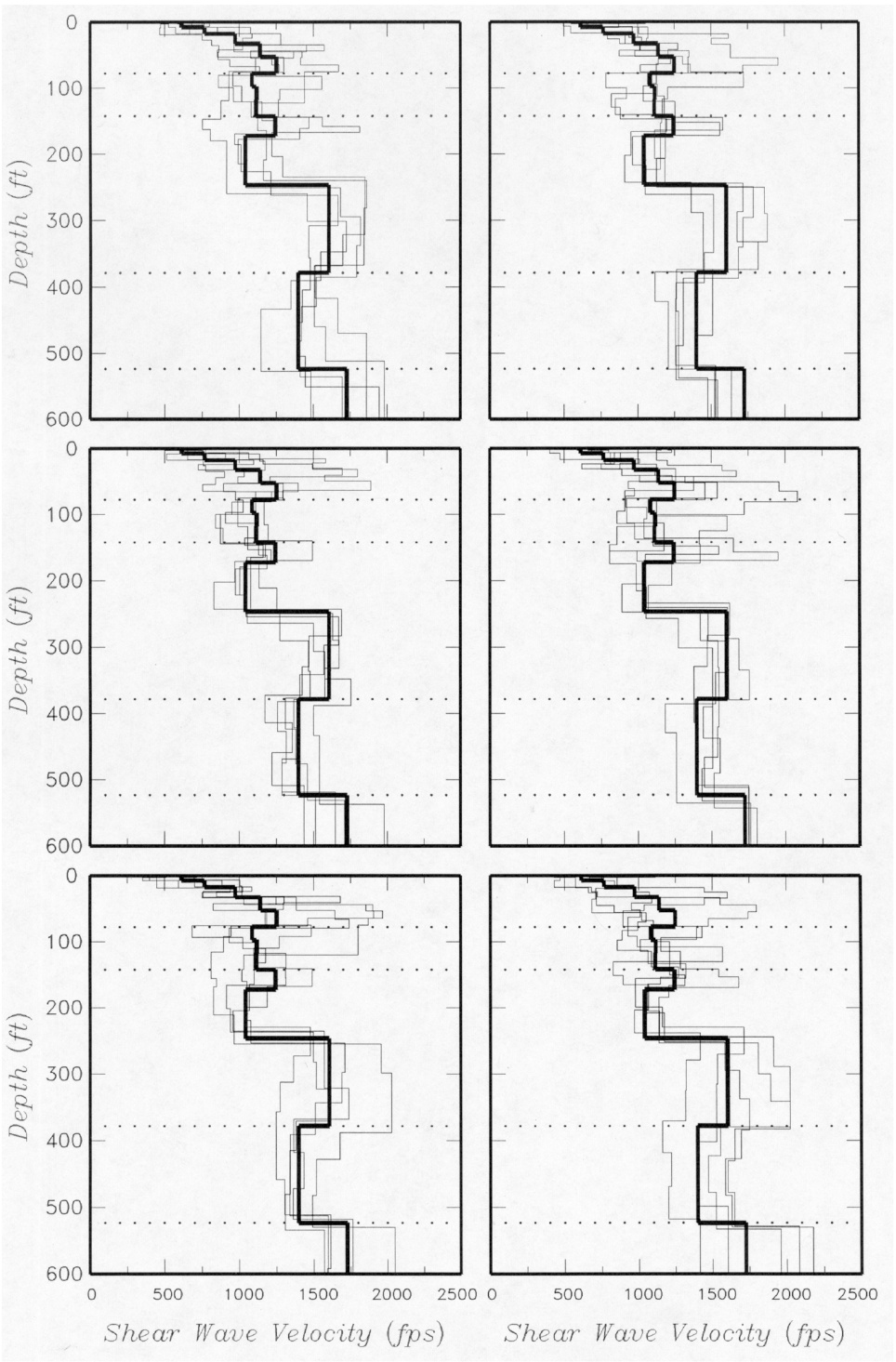


Figure 2.5.2-262. Randomized Velocity Profiles 31-60 for the Finished Grade Analysis

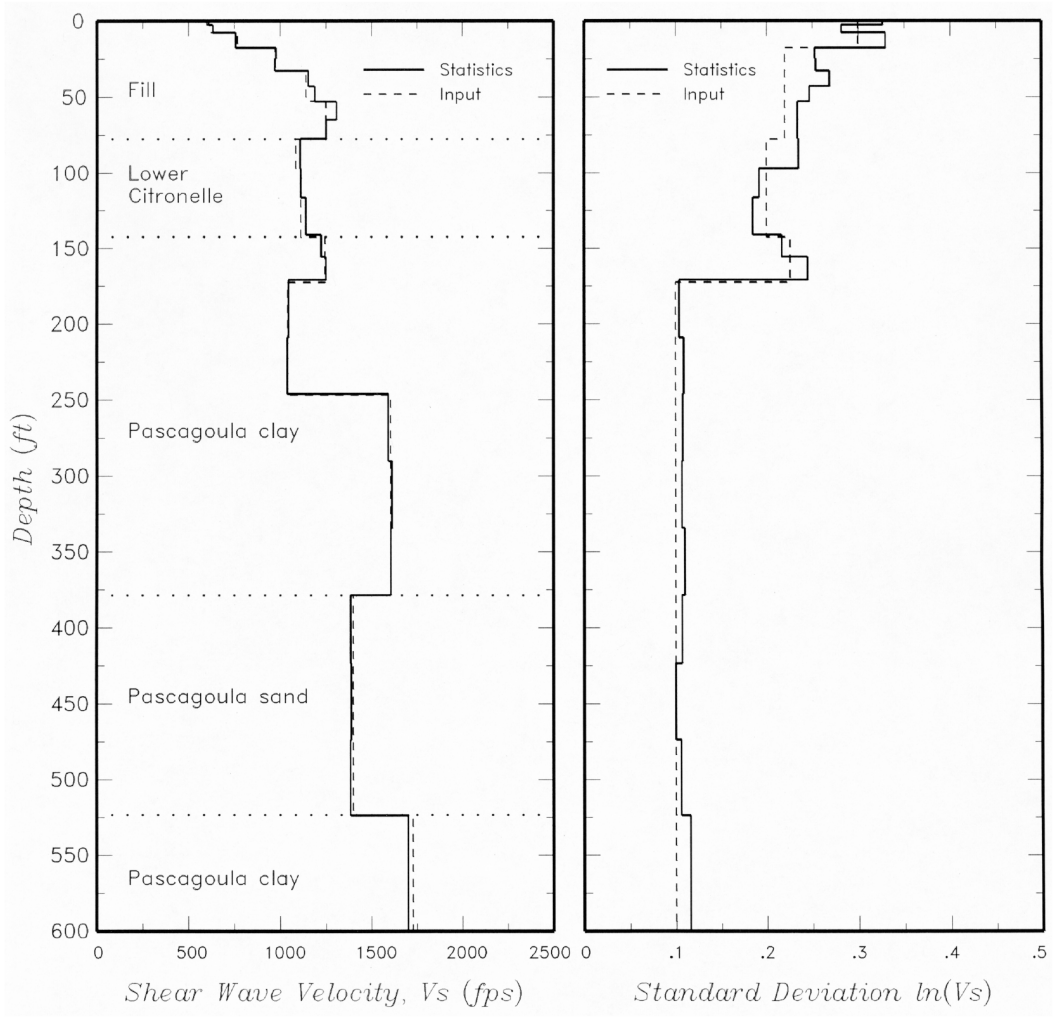


Figure 2.5.2-263. Statistics of Randomized Velocity Profiles for the Finished Grade Analysis **Revision 0**

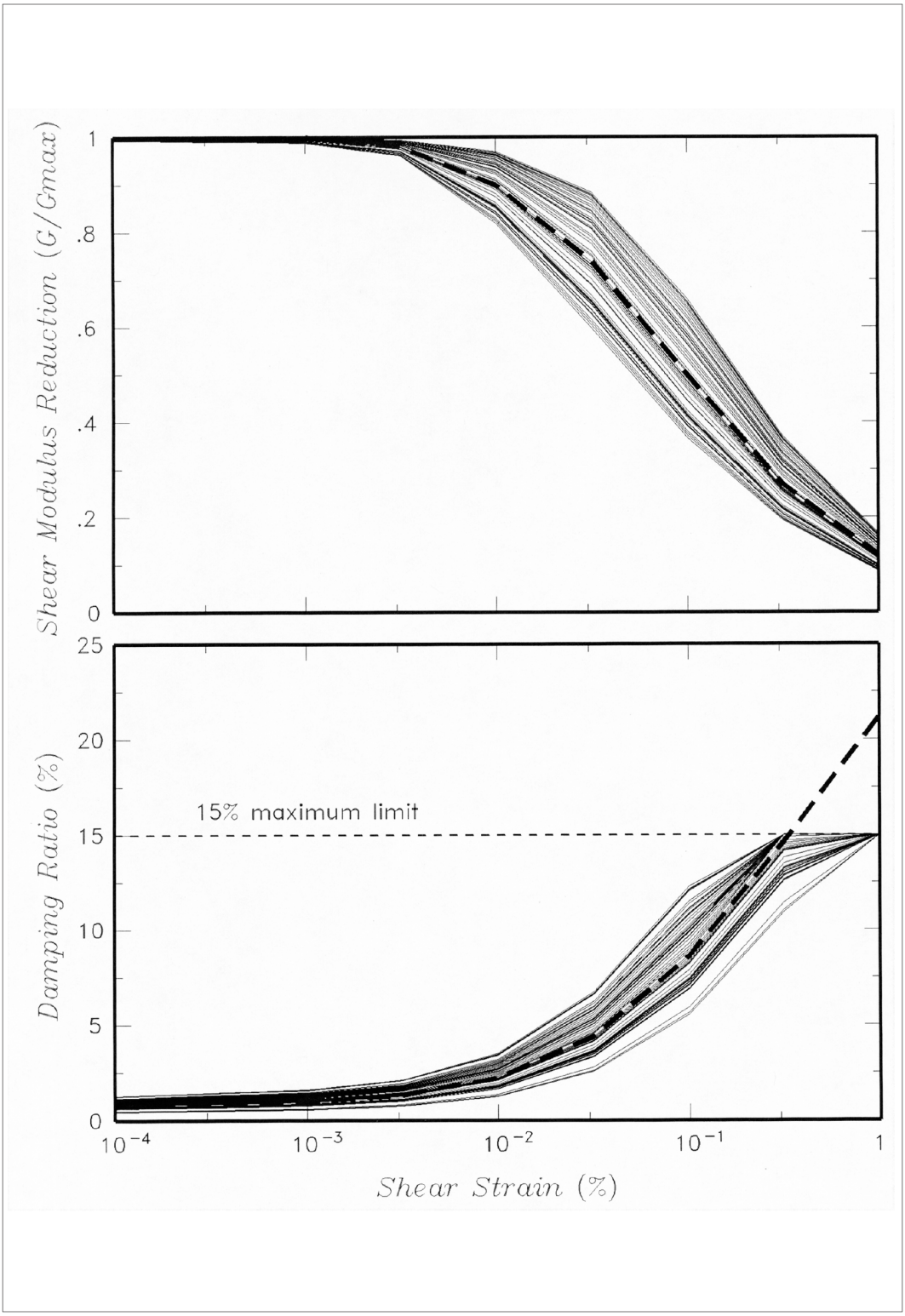


Figure 2.5.2-264. Randomized Shear Modulus (G) Reduction and Damping Relationships Used for the Granular Backfill and Lower Citronelle

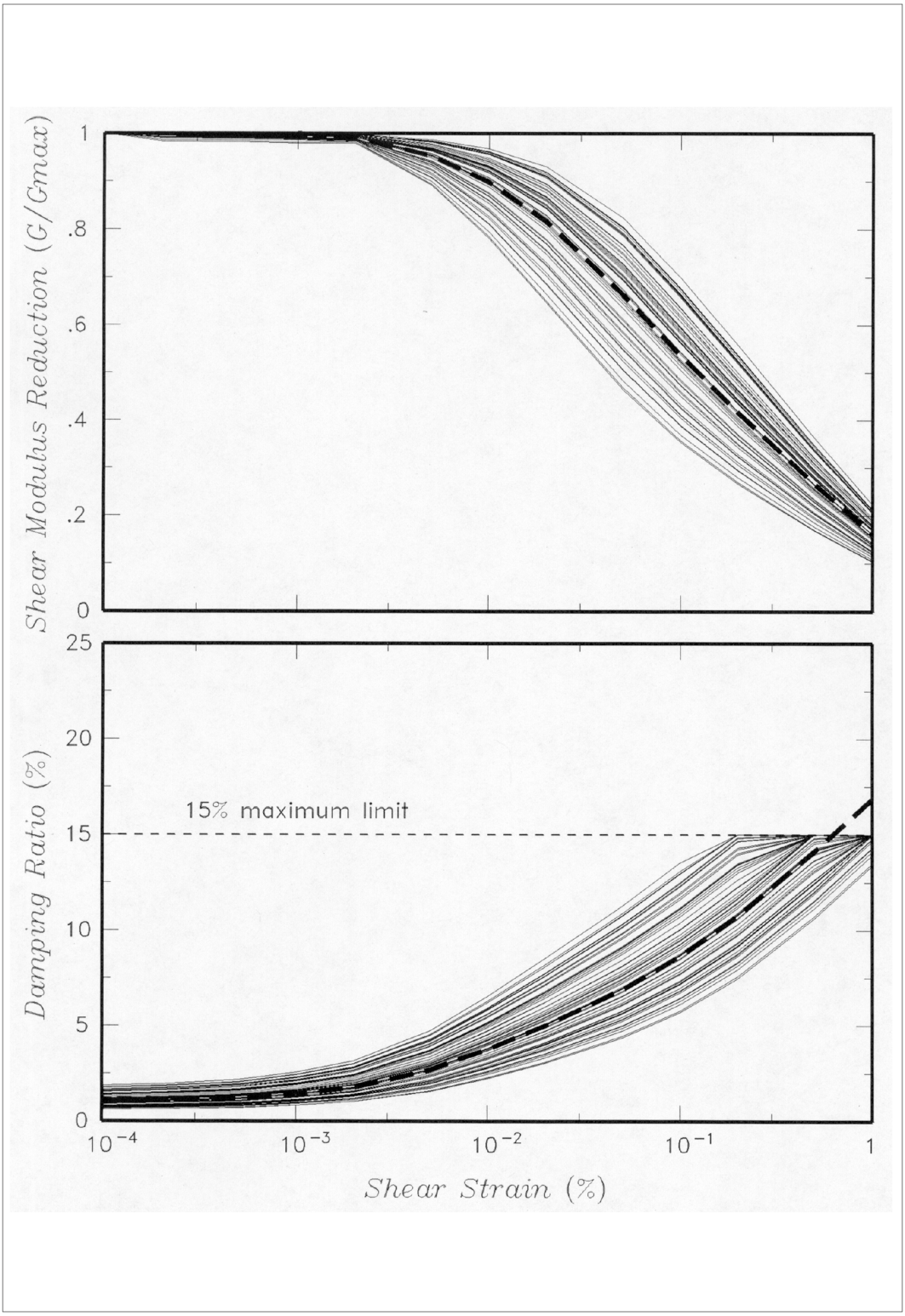


Figure 2.5.2-265. Randomized Shear Modulus (G) Reduction and Damping Relationships used for the Pascagoula Clays Above the Aquifer

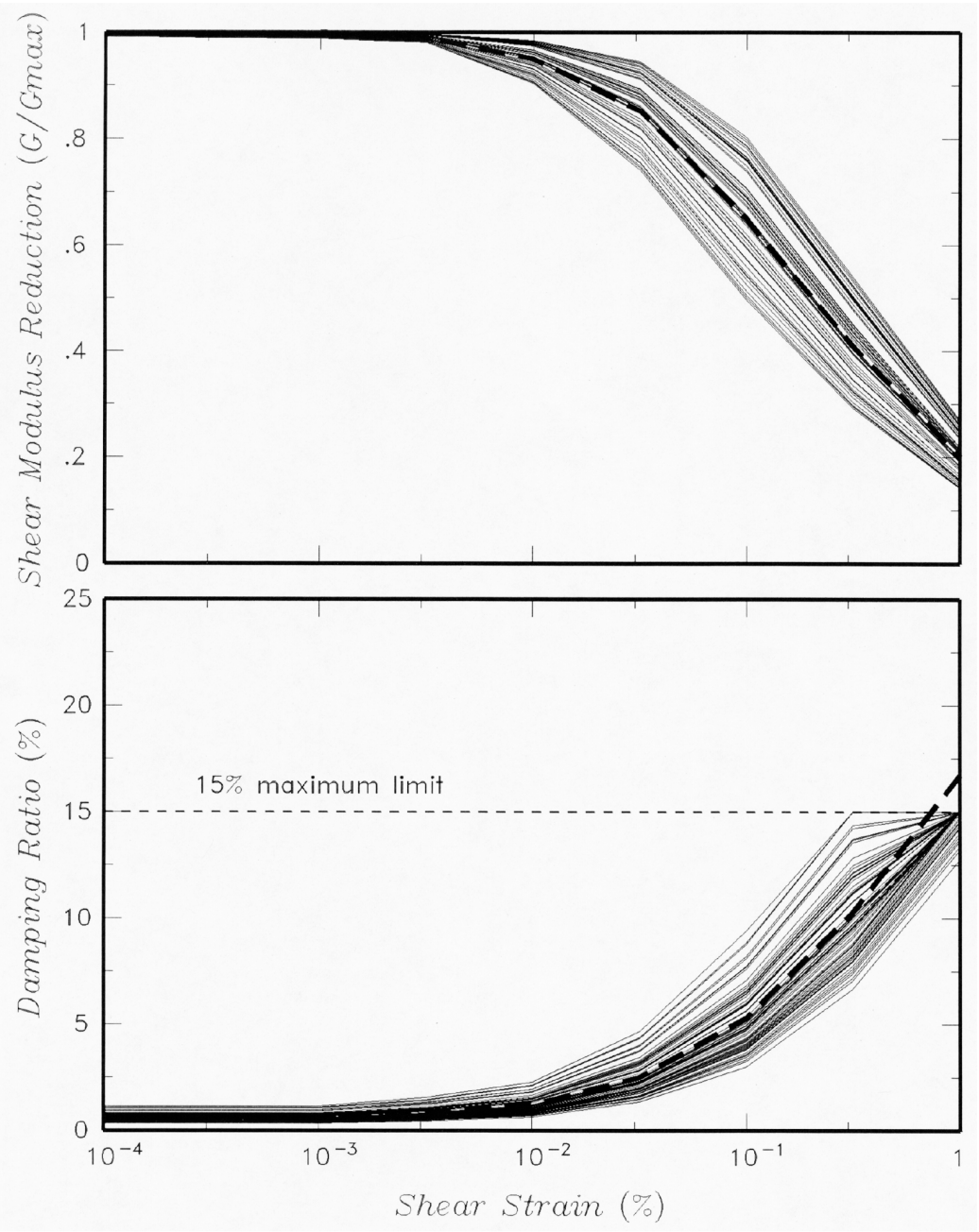


Figure 2.5.2-266. Randomized Shear Modulus (G) Reduction and Damping Relationships Used for the Pascagoula Sands in the Zone 1 Aquifer

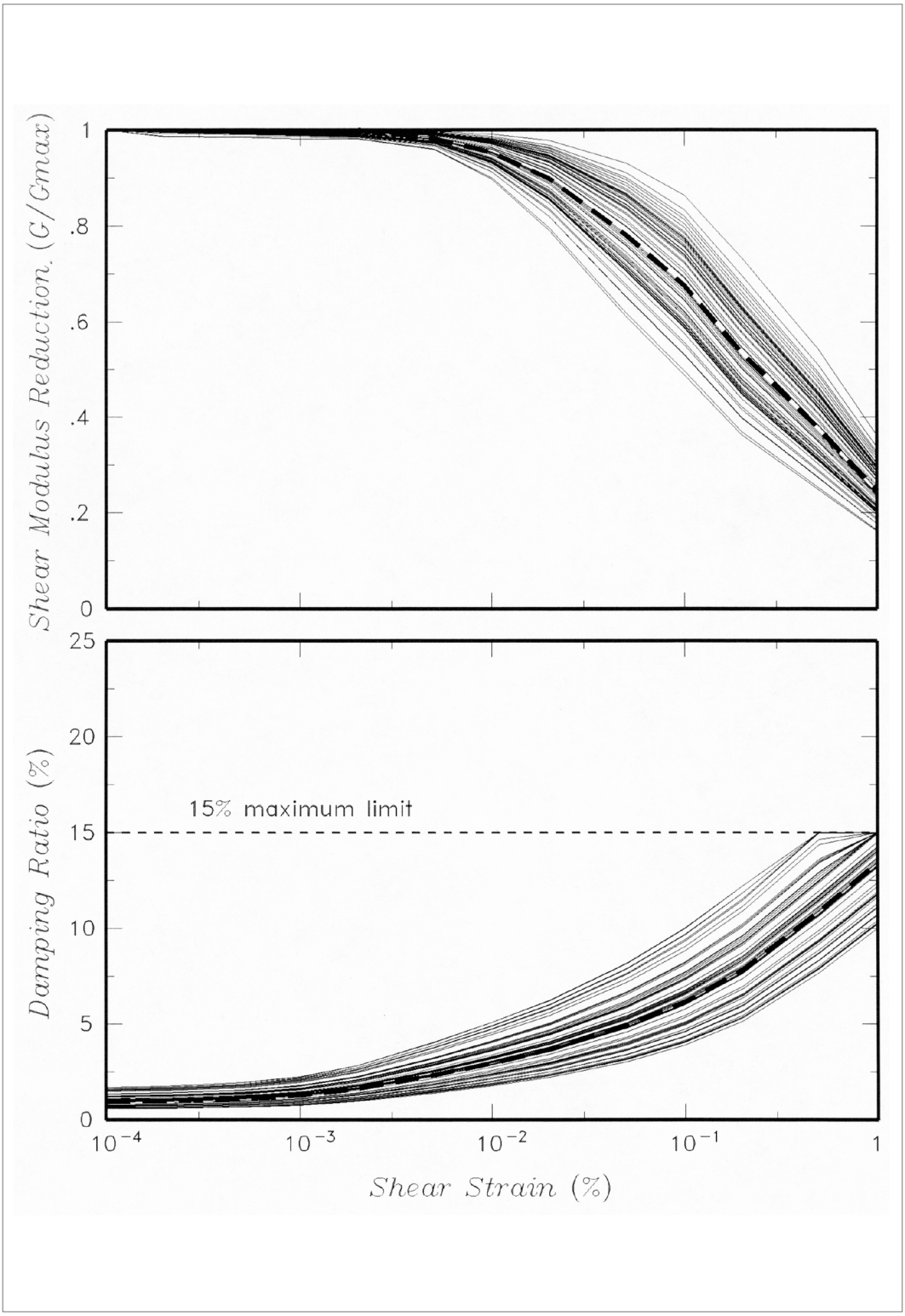


Figure 2.5.2-267. Randomized Shear Modulus (G) Reduction and Damping Relationships Used for the Pascagoula Clays Below the Aquifer

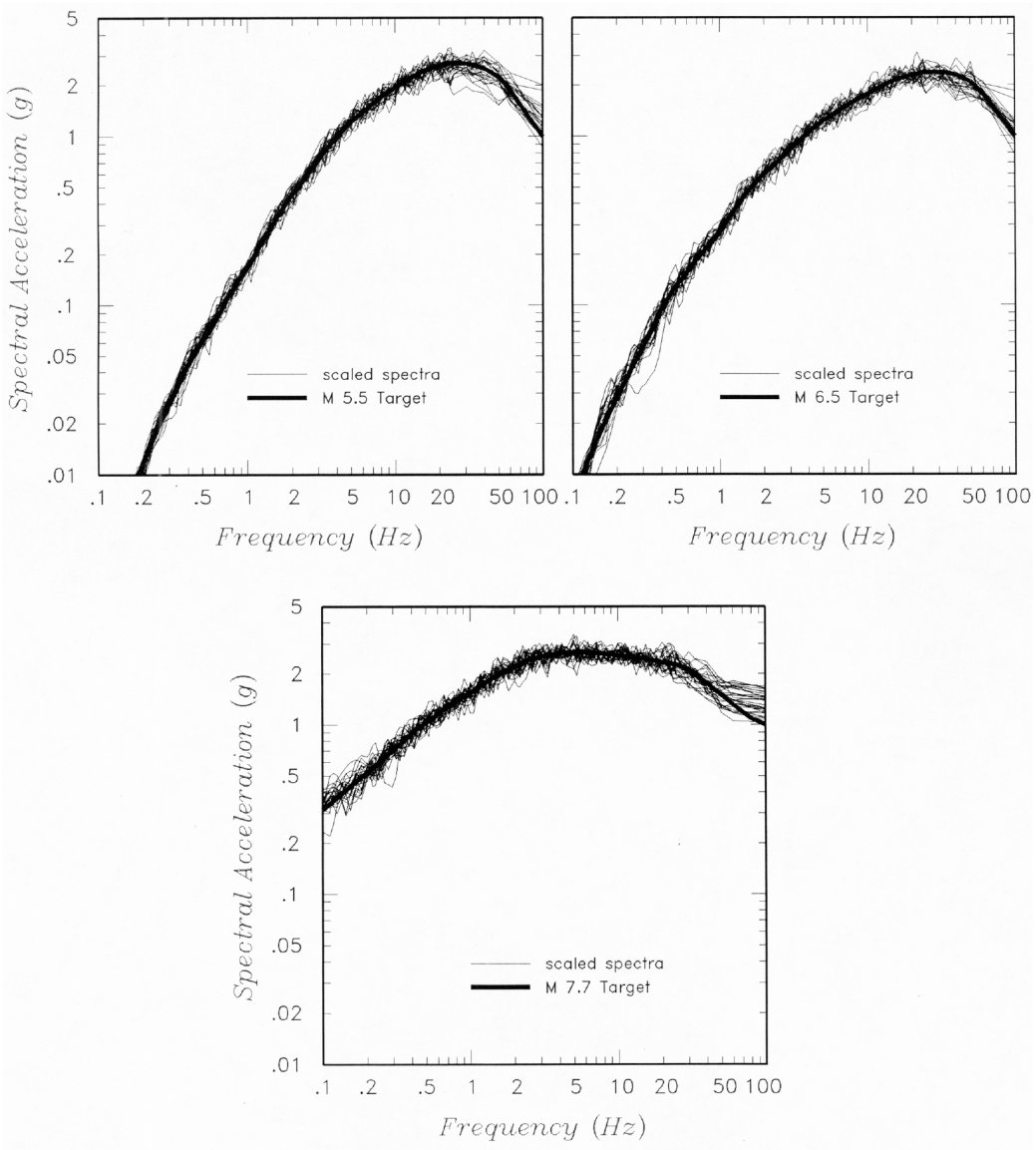


Figure 2.5.2-268. Example Response Spectra of Time Histories Used for Site Response Analyses

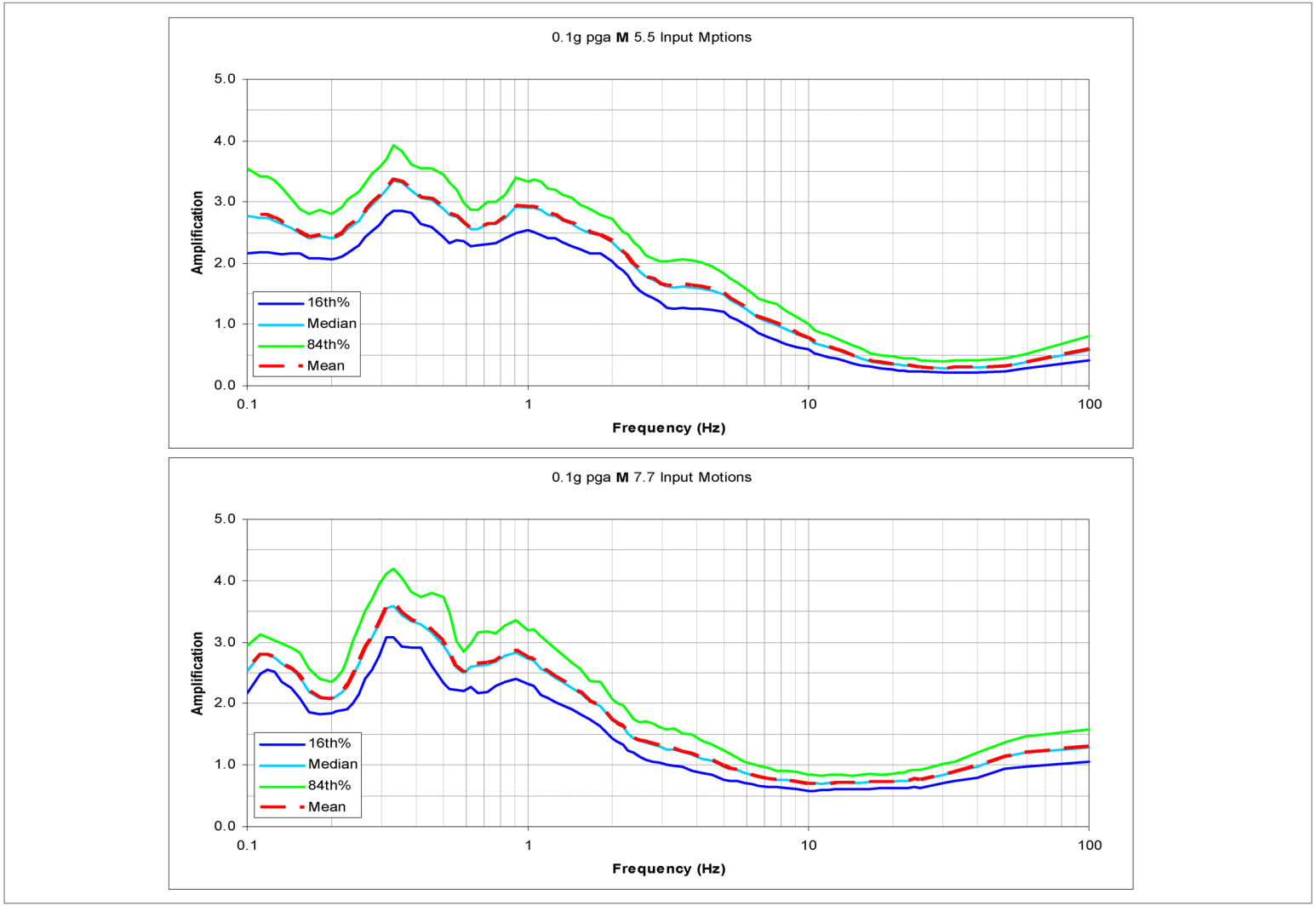


Figure 2.5.2-269. Example Statistics of Site Amplification for the RBS GMRS Profile **Revision 0**

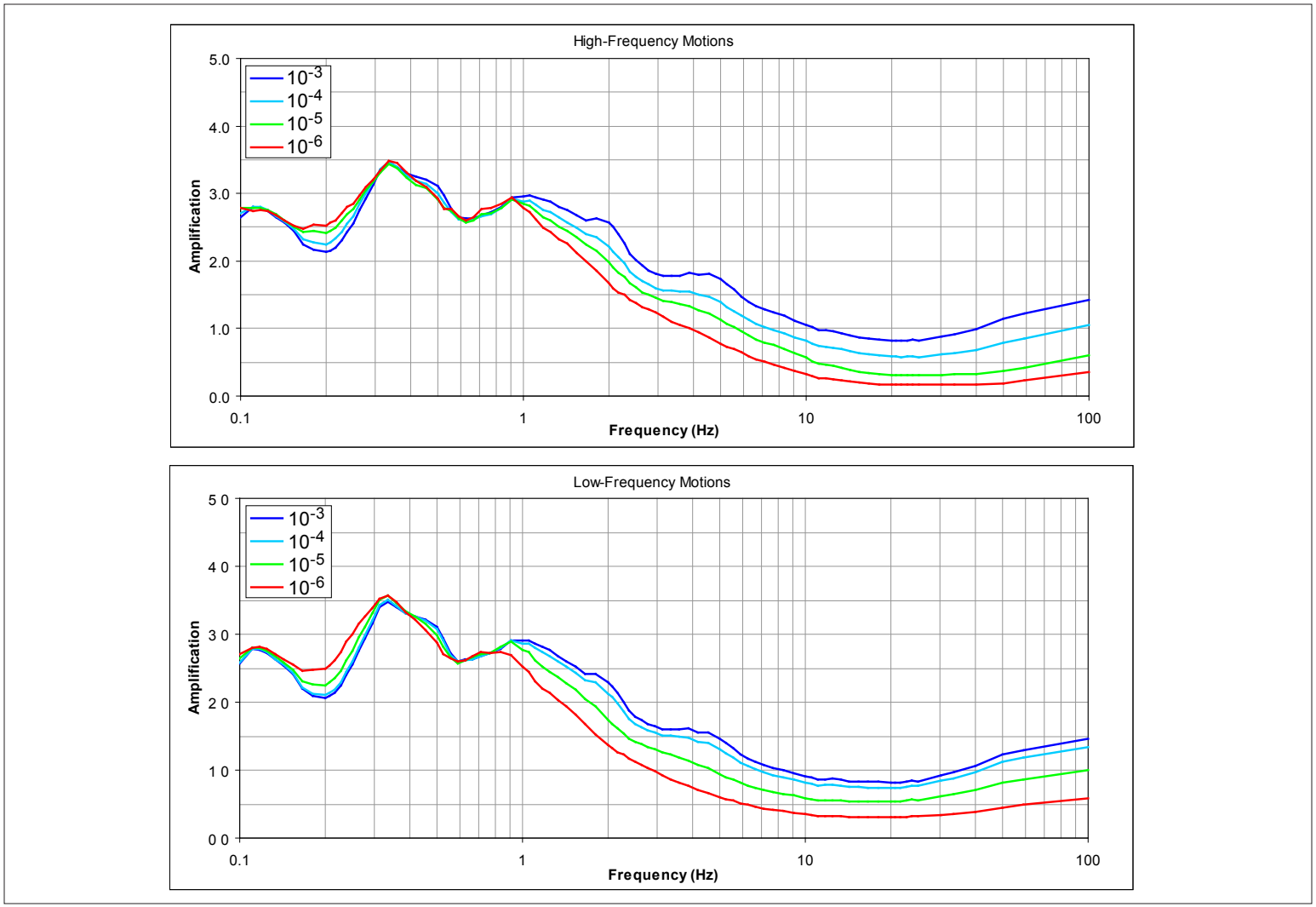


Figure 2.5.2-270. GMRS Profile Amplification Functions for the RBS Site

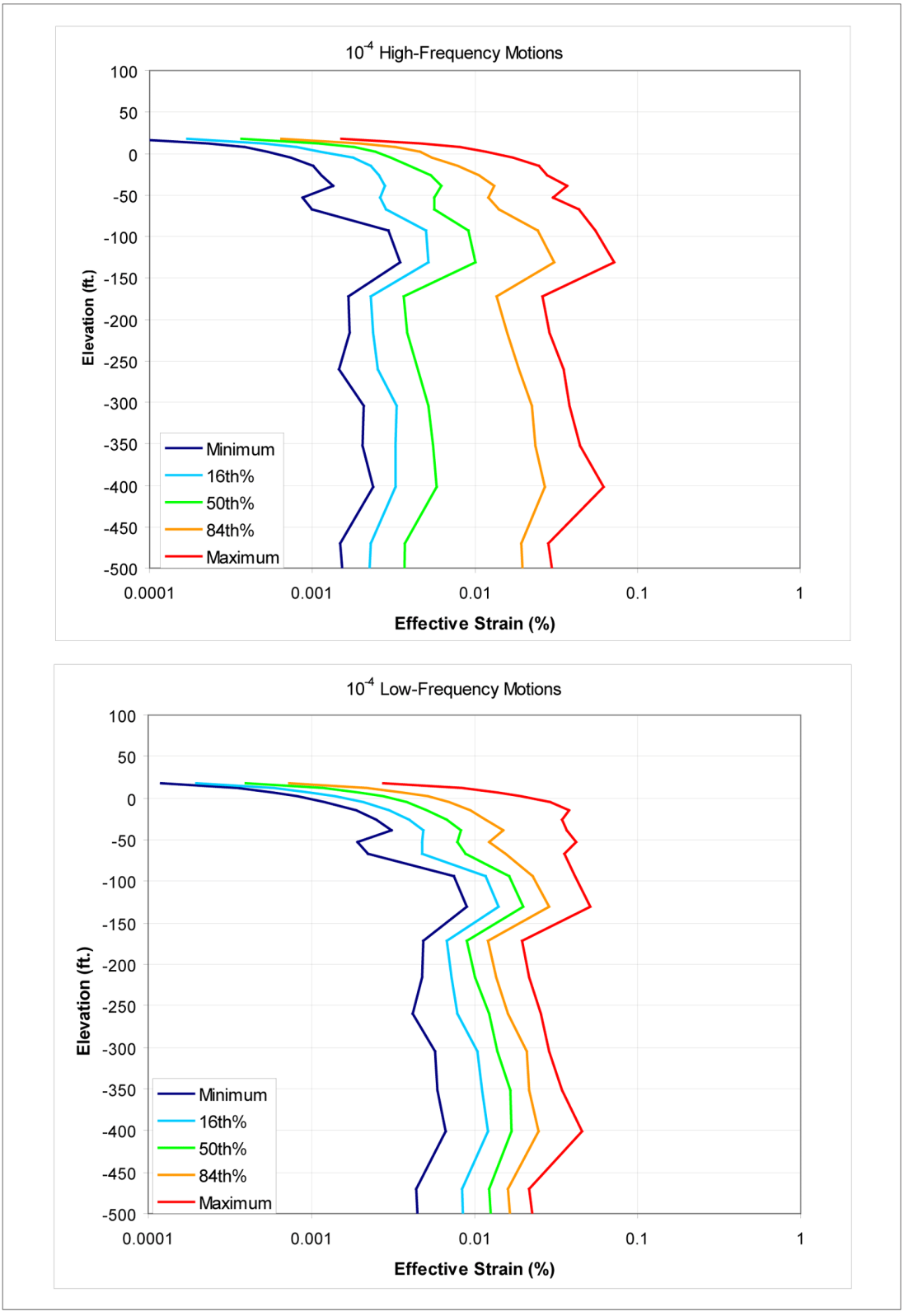


Figure 2.5.2-271. Statistics of Effective Strain for the GMRS Profile and 10^{-4} Motions

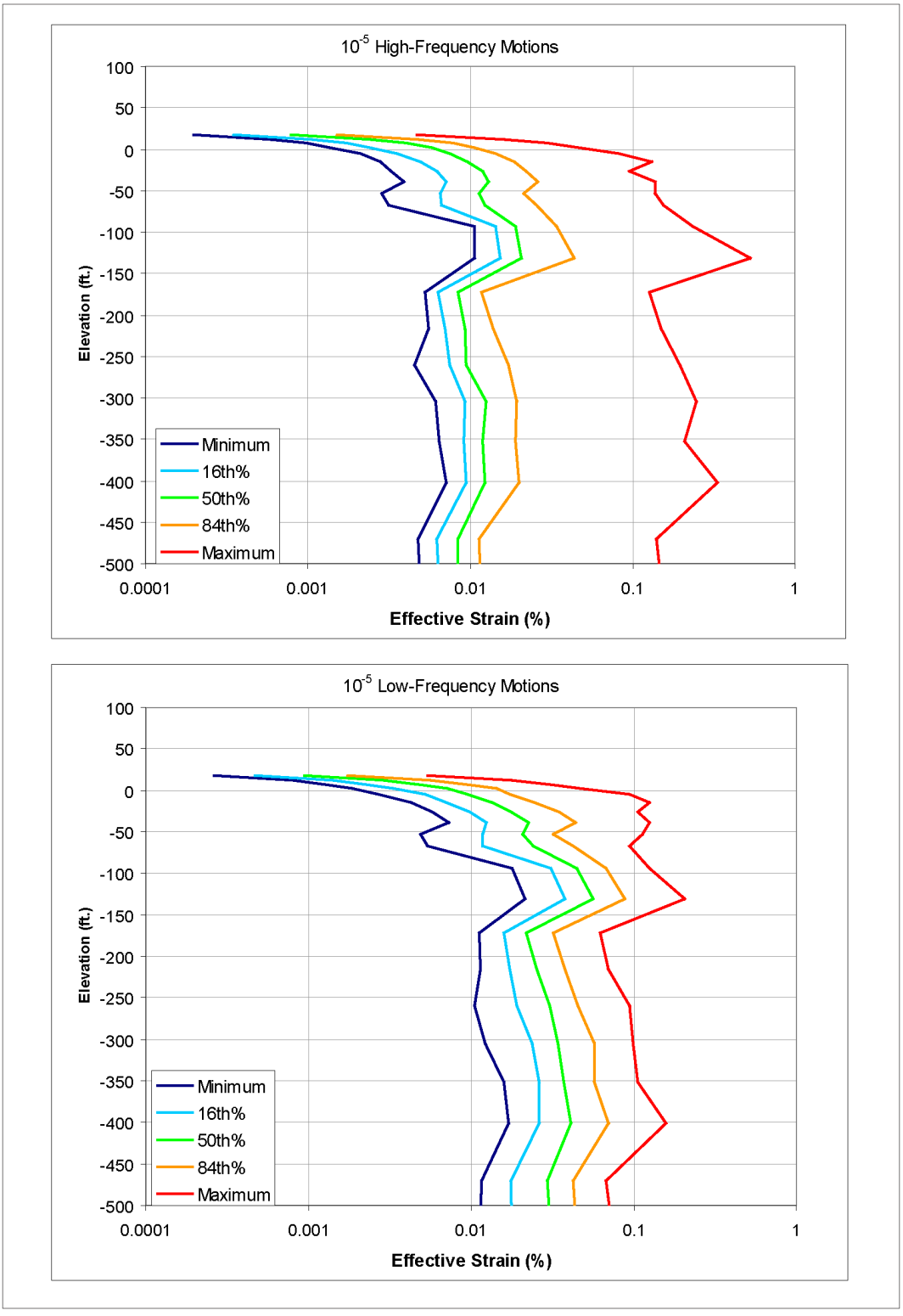


Figure 2.5.2-272. Statistics of Effective Strain for the GMRS Profile and 10^{-5} Motions

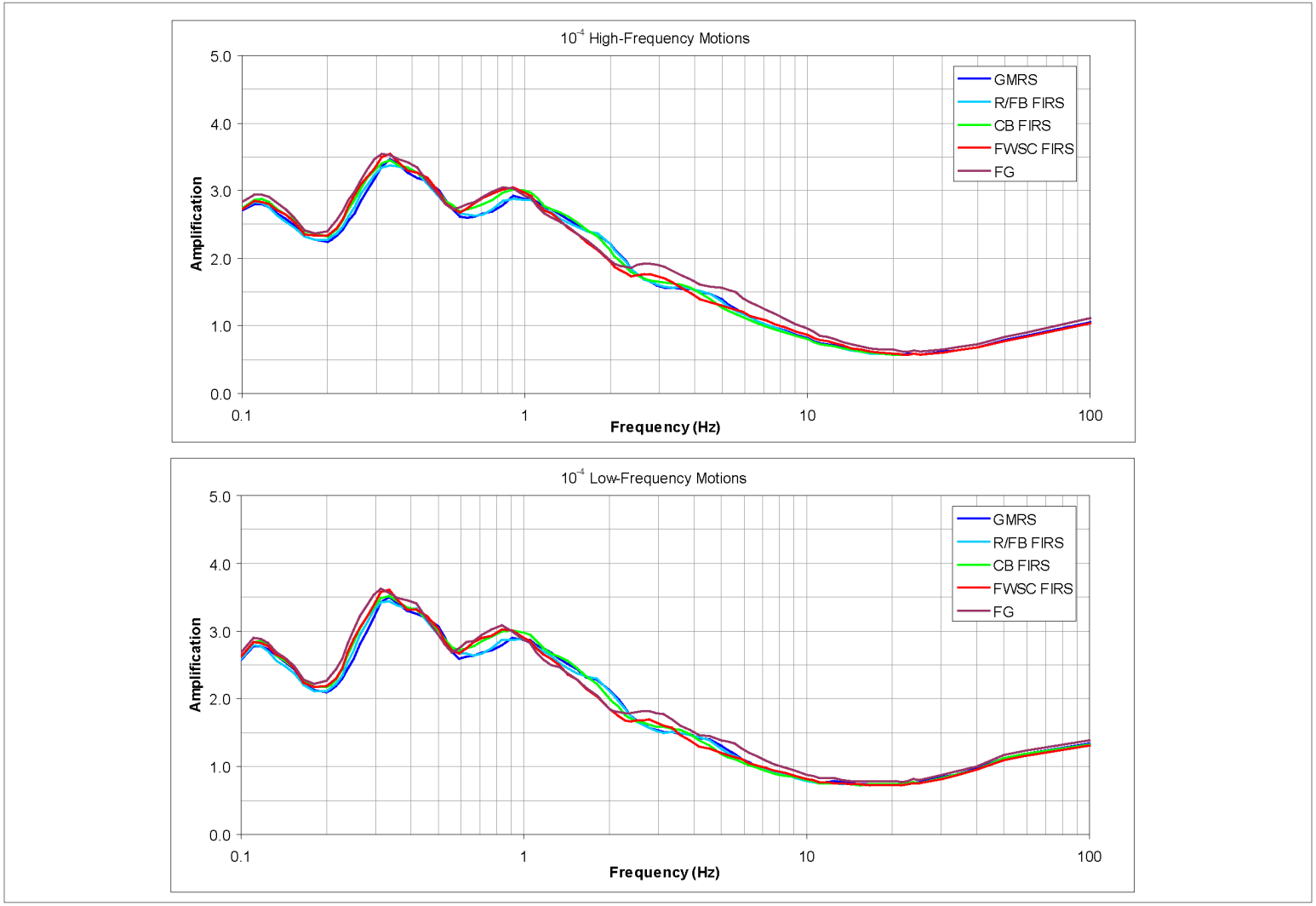


Figure 2.5.2-273. 10^{-4} GMRS and FIRS Amplification Functions for the RBS Site

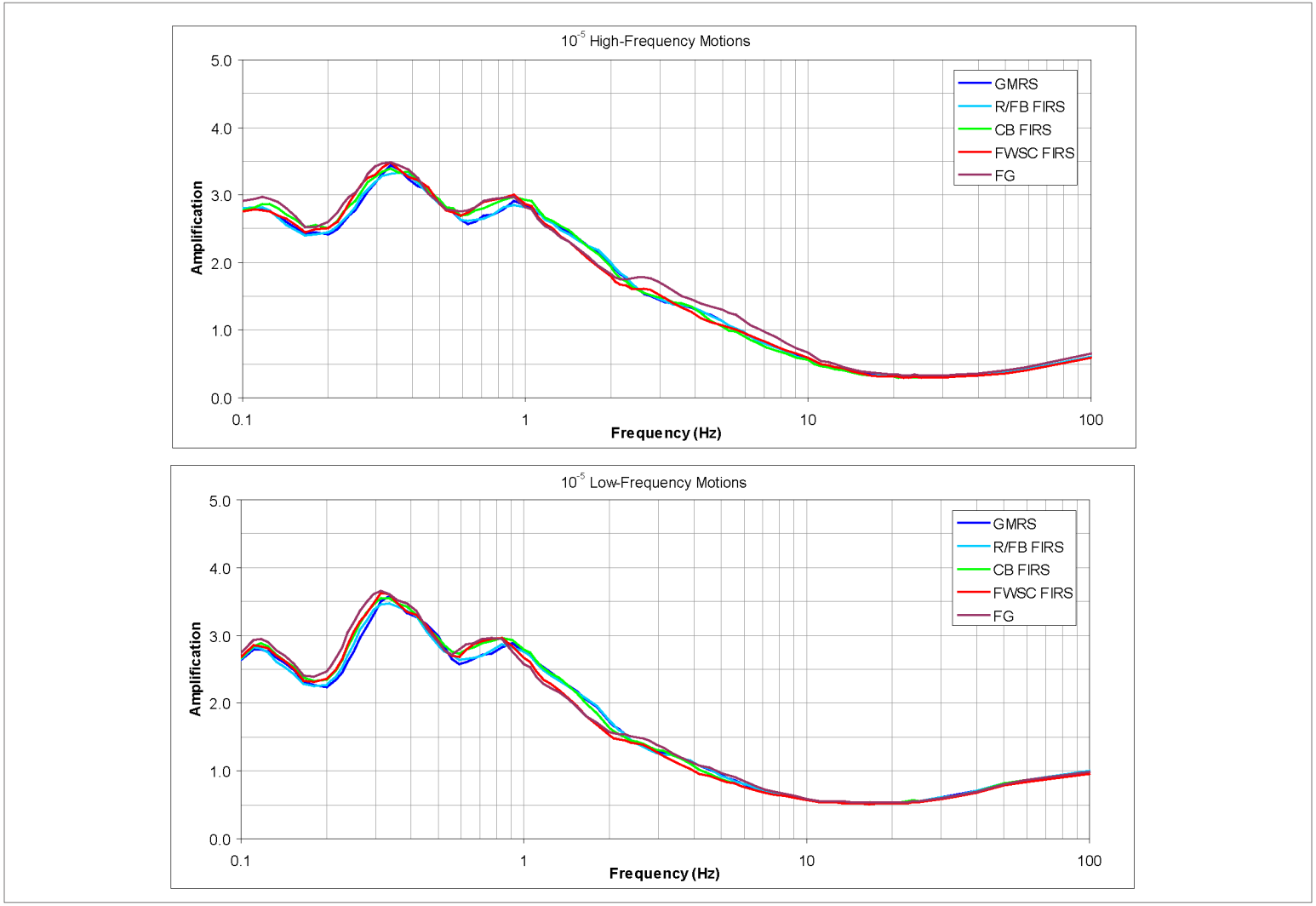


Figure 2.5.2-274. 10^{-5} GMRS and FIRS Amplification Functions for the RBS Site

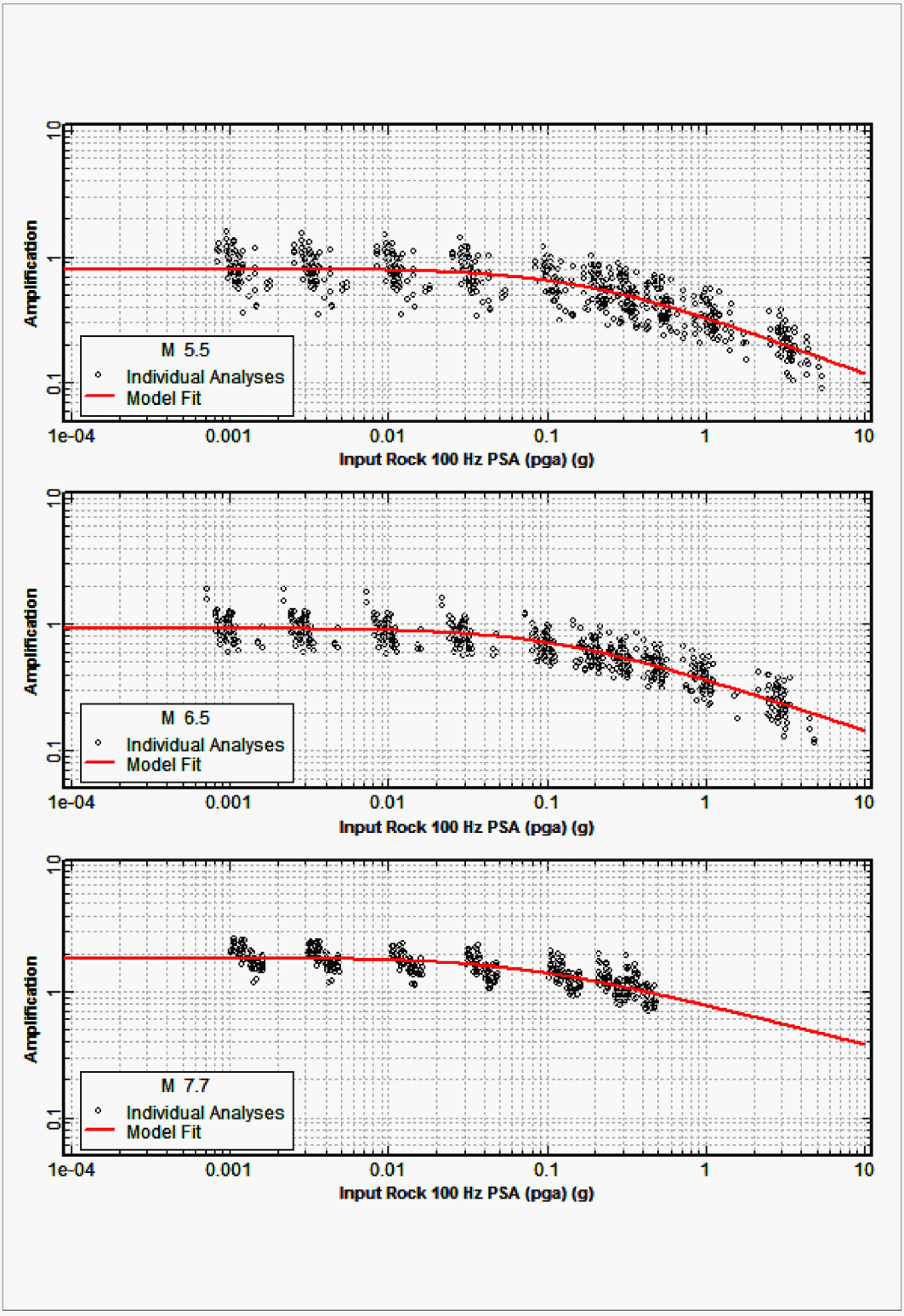


Figure 2.5.2-275. Site Amplification Function for 100 Hz Revision 0

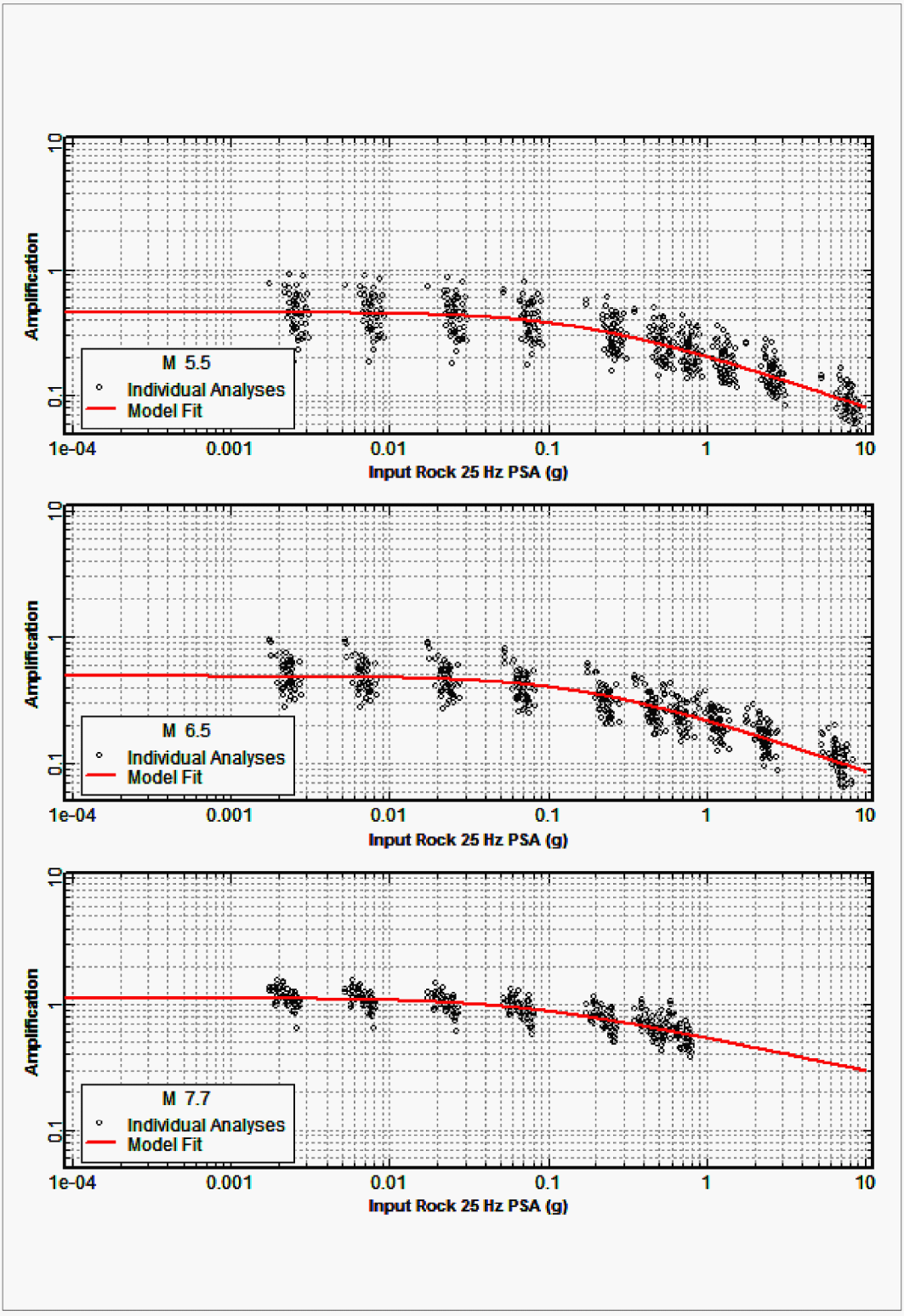


Figure 2.5.2-276. Site Amplifcation Function for 25 Hz Revision 0

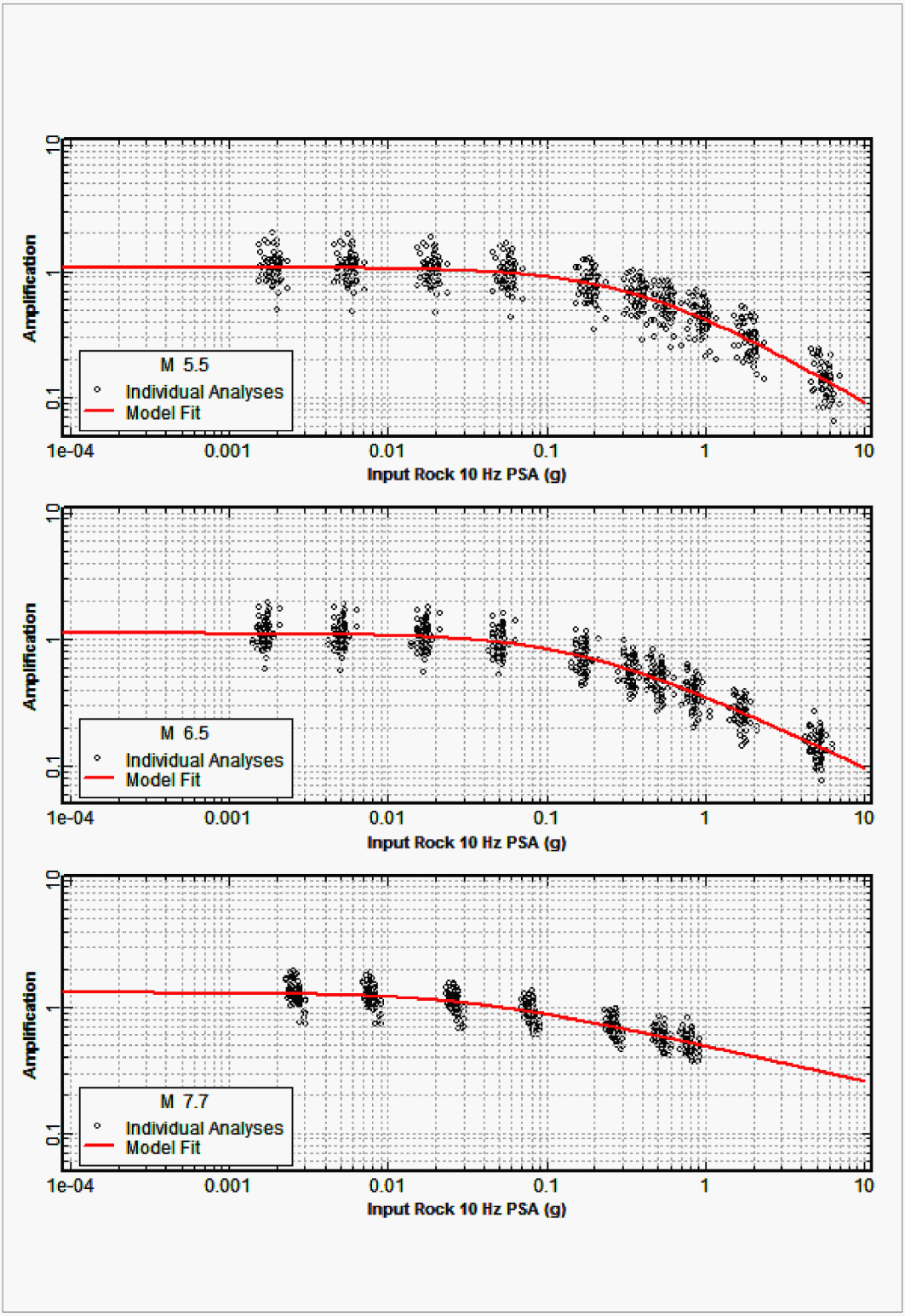


Figure 2.5.2-277. Site Amplification Function for 10 Hz Revision 0

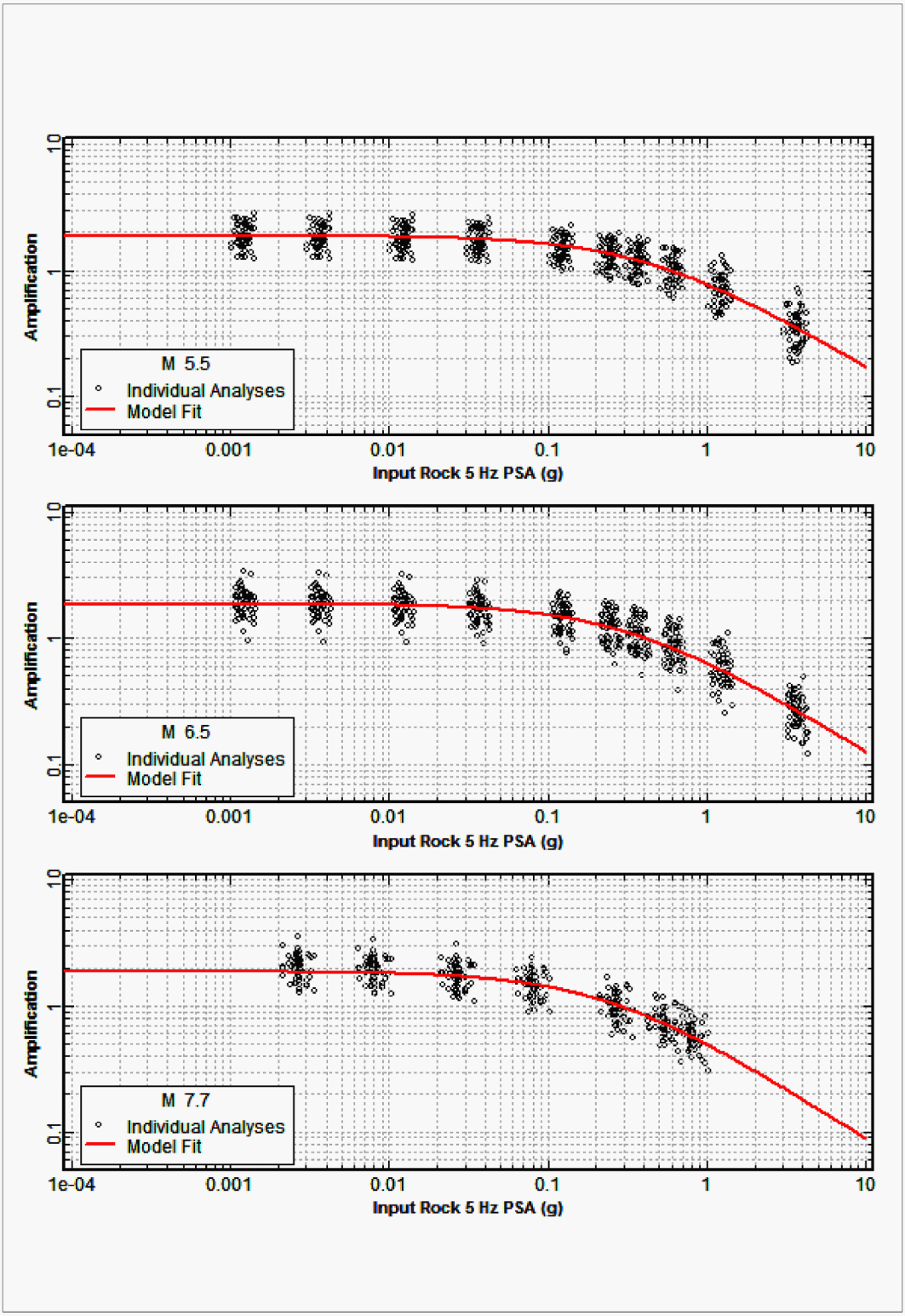


Figure 2.5.2-278. Site Amplification Function for 5 Hz Revision 0

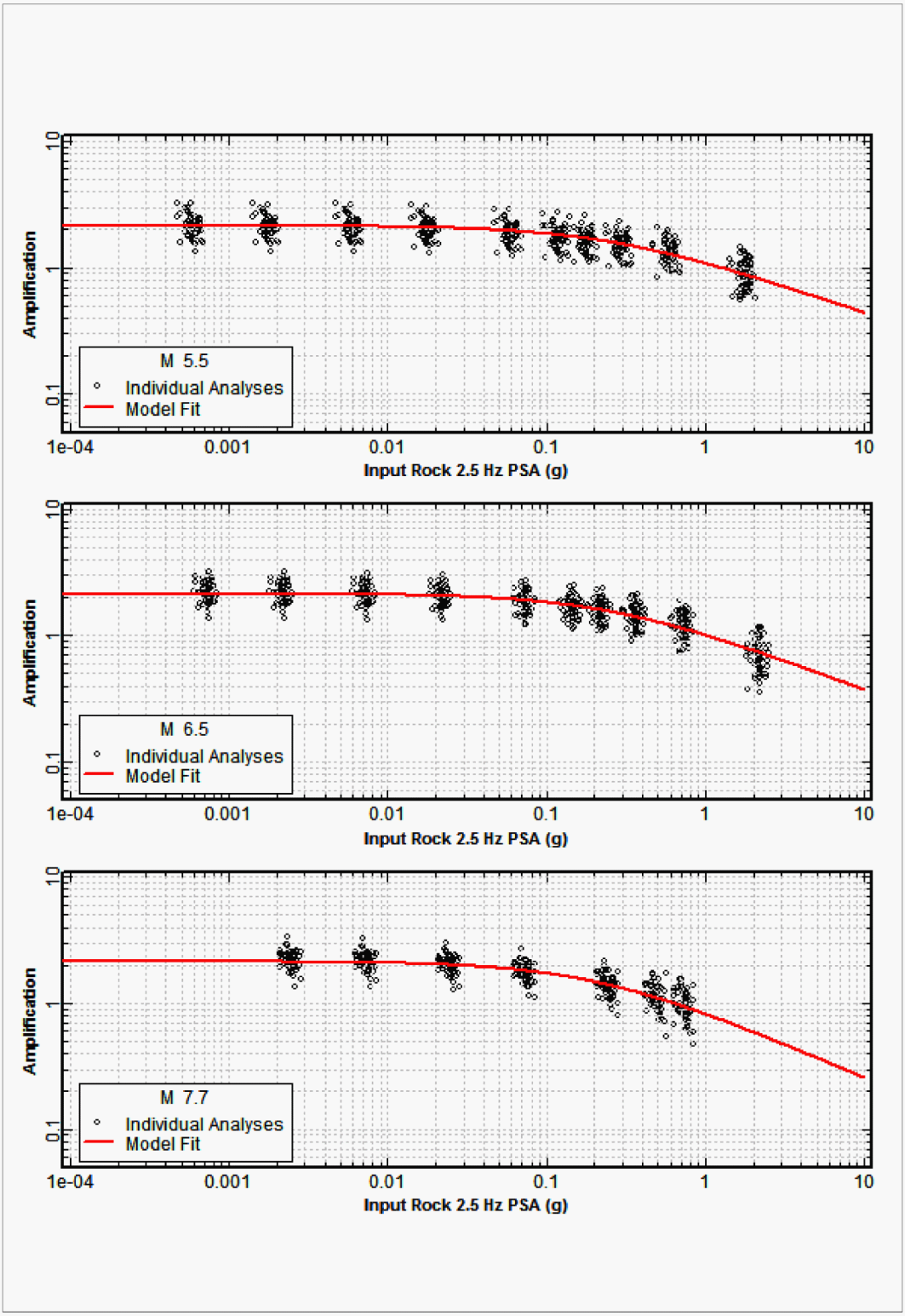


Figure 2.5.2-279. Site Amplification Function for 2.5 Hz Revision 0

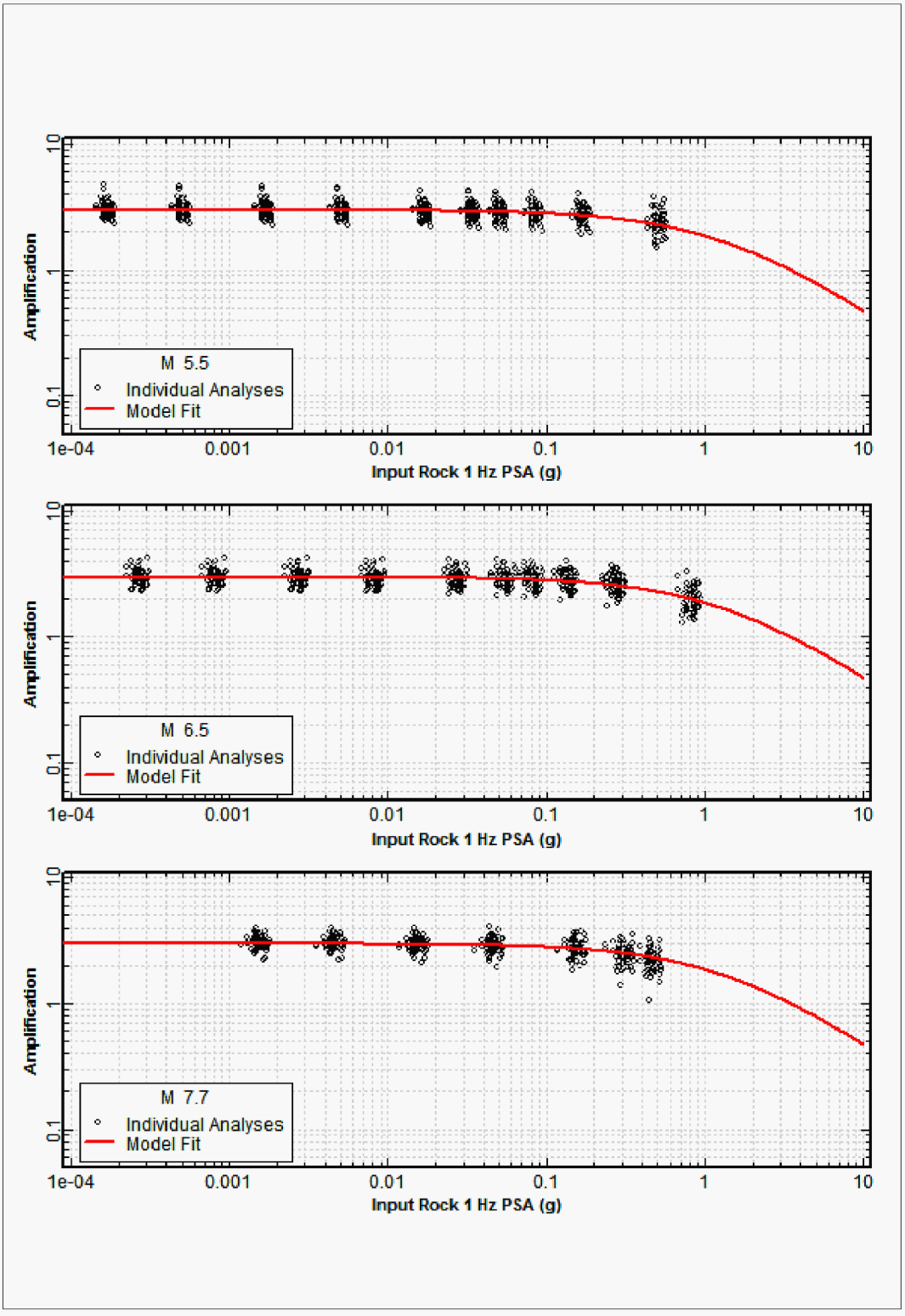


Figure 2.5.2-280. Site Amplification Function for 1 Hz Revision 0

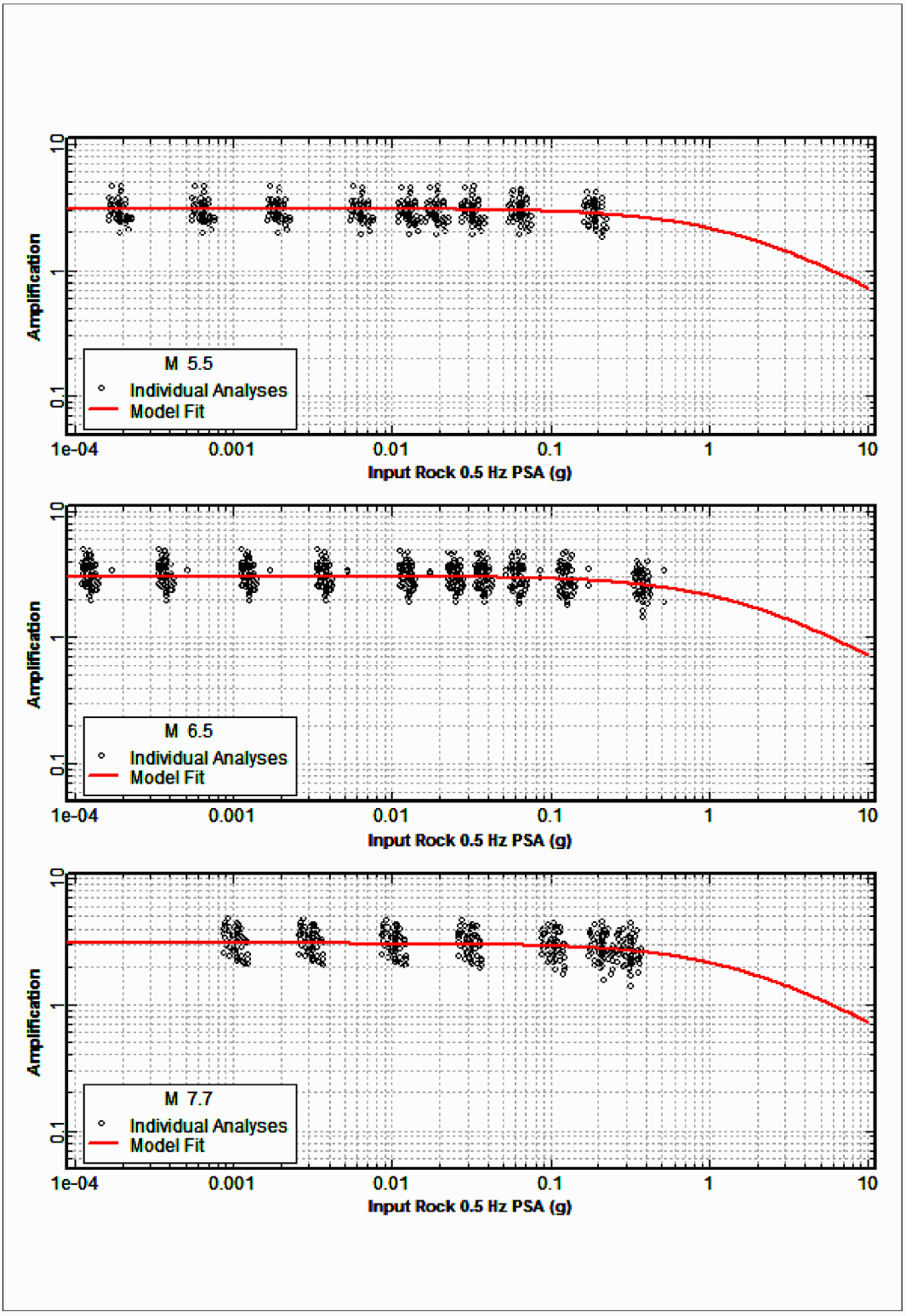


Figure 2.5.2-281. Site Amplification Function for 0.5 Hz Revision 0

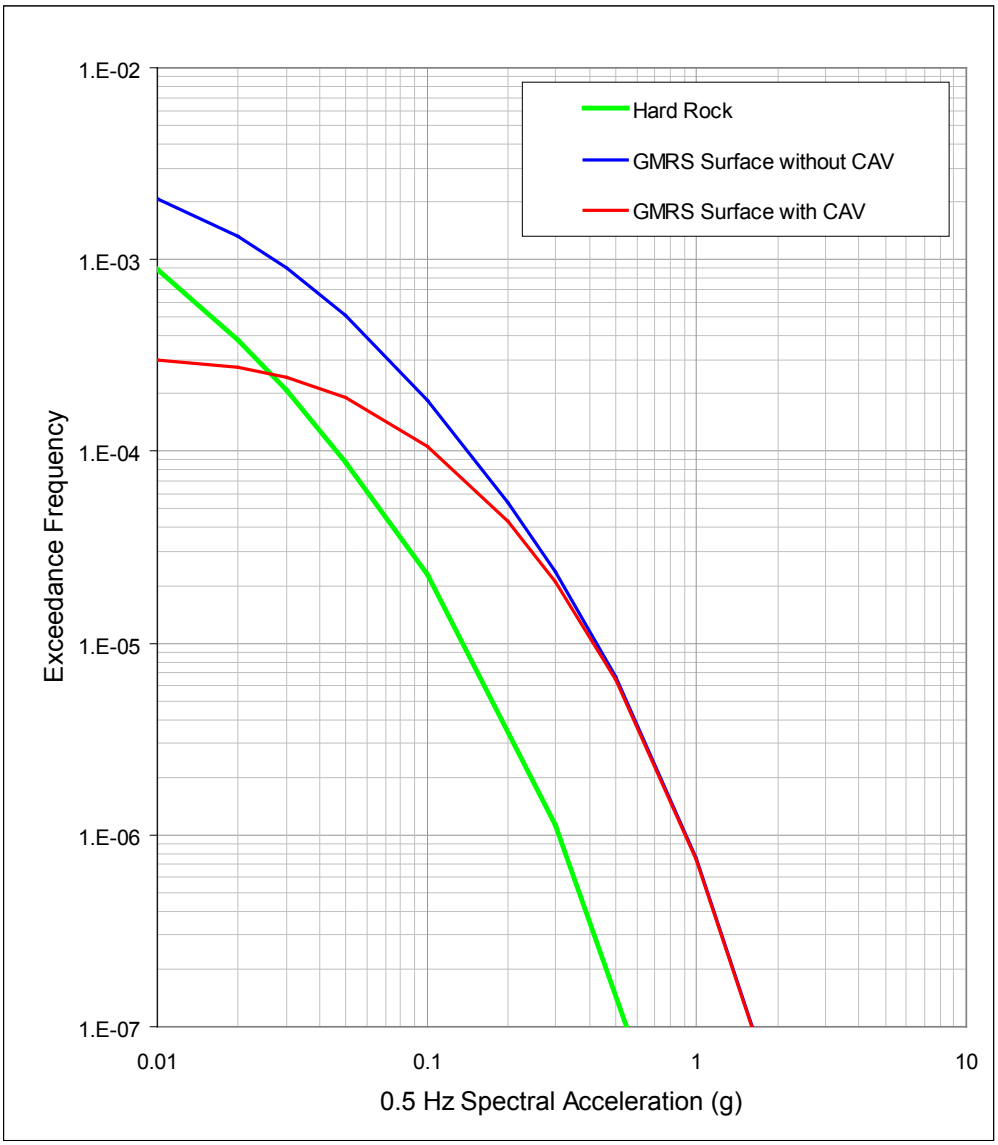


Figure 2.5.2-282. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 0.5-Hz Spectral Acceleration

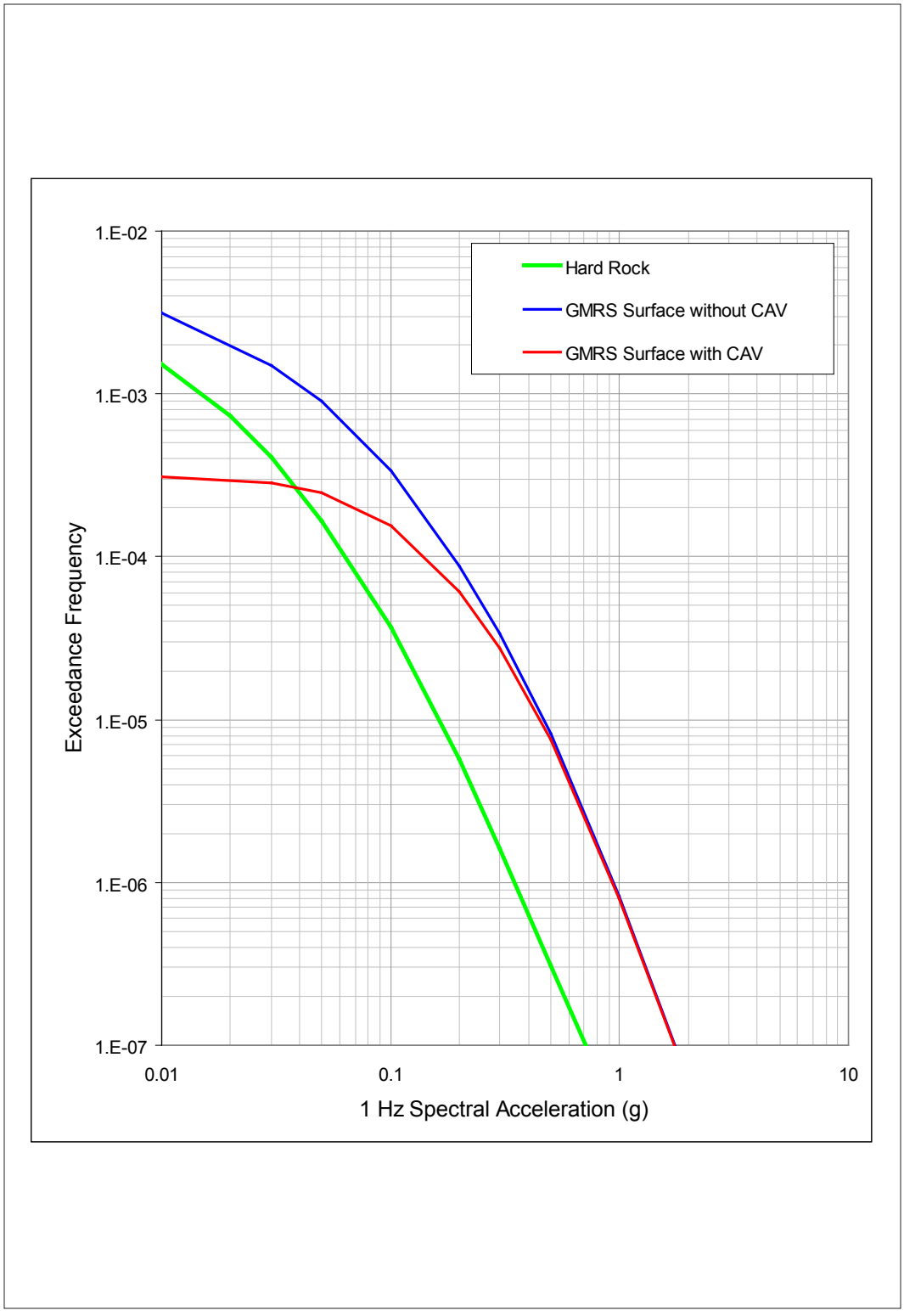


Figure 2.5.2-283. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 1-Hz Spectral Acceleration

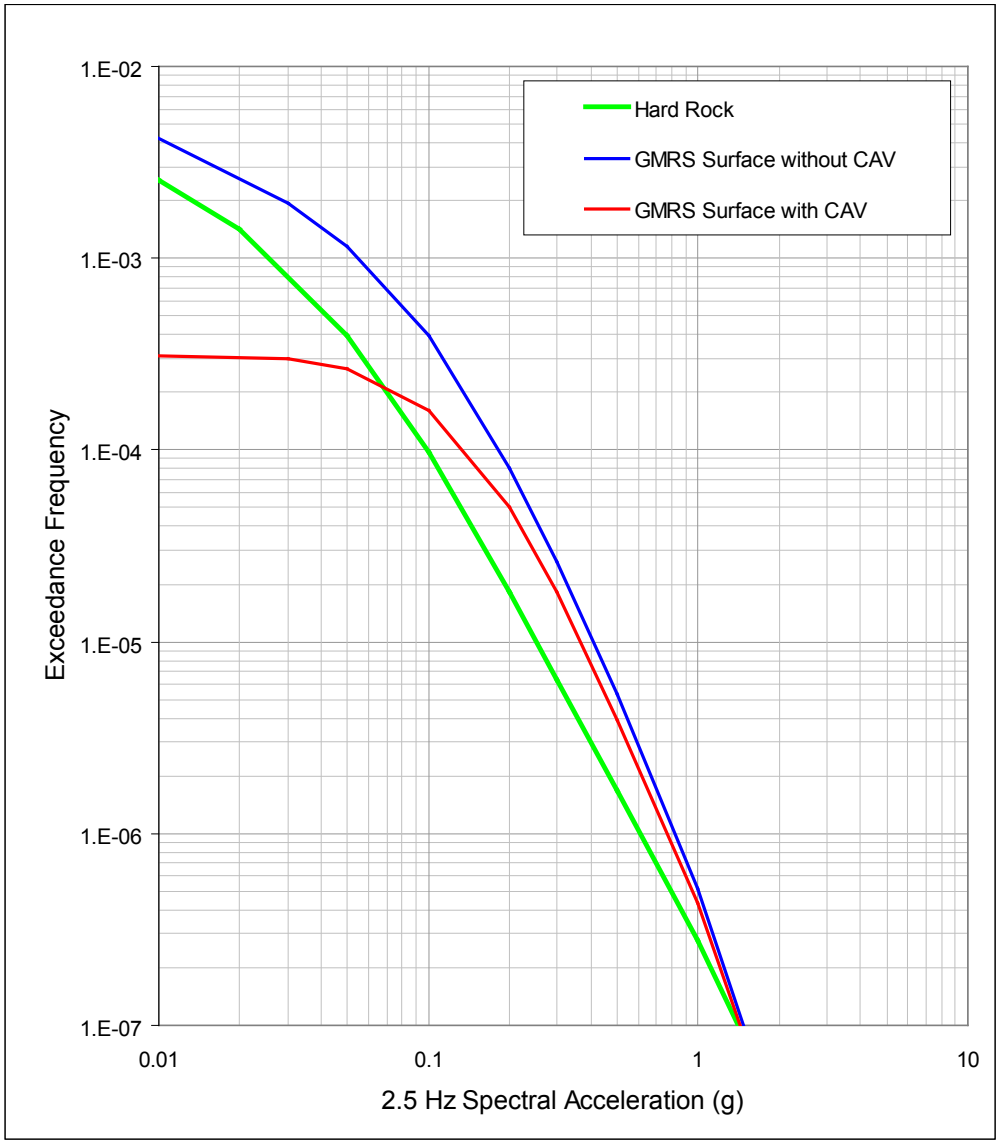


Figure 2.5.2-284. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 2.5-Hz Spectral Acceleration

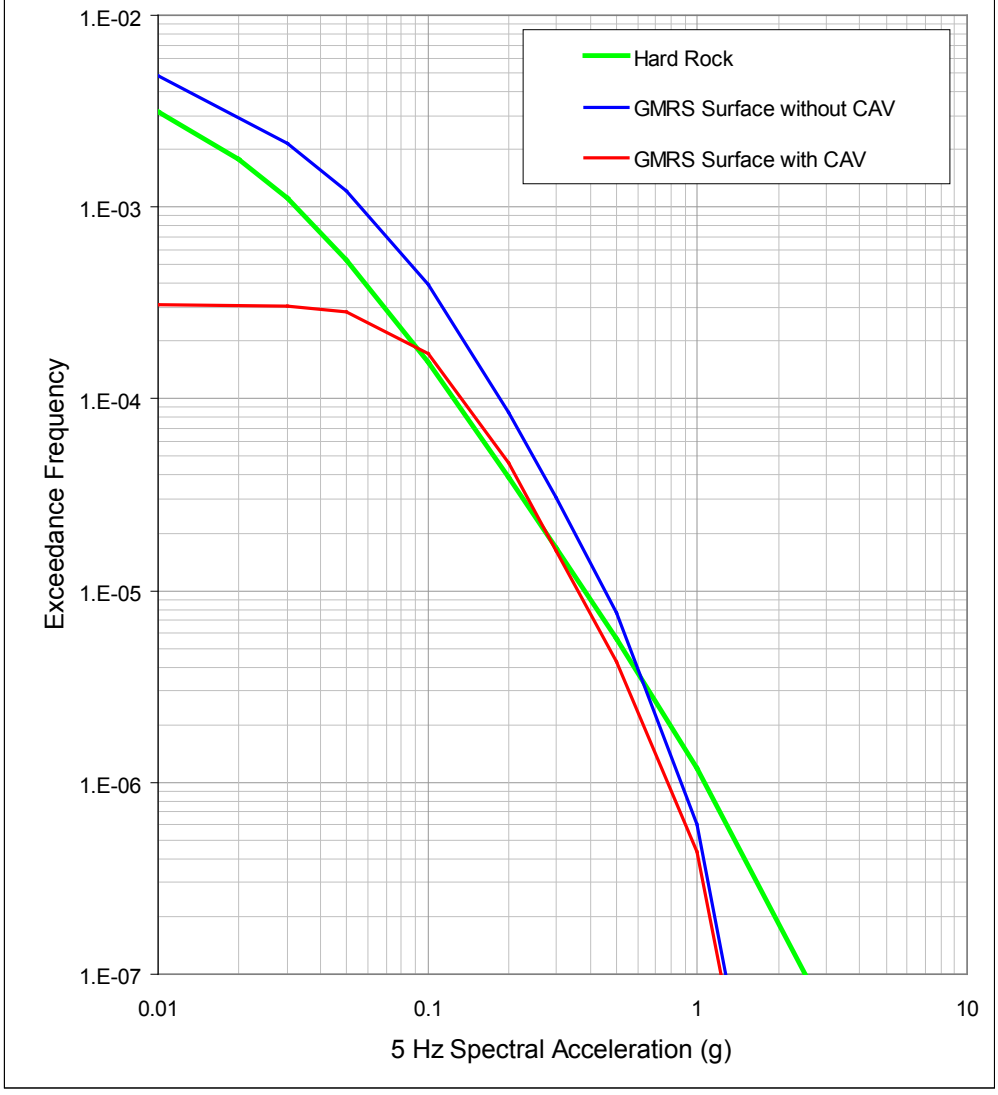


Figure 2.5.2-285. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 5-Hz Spectral Acceleration

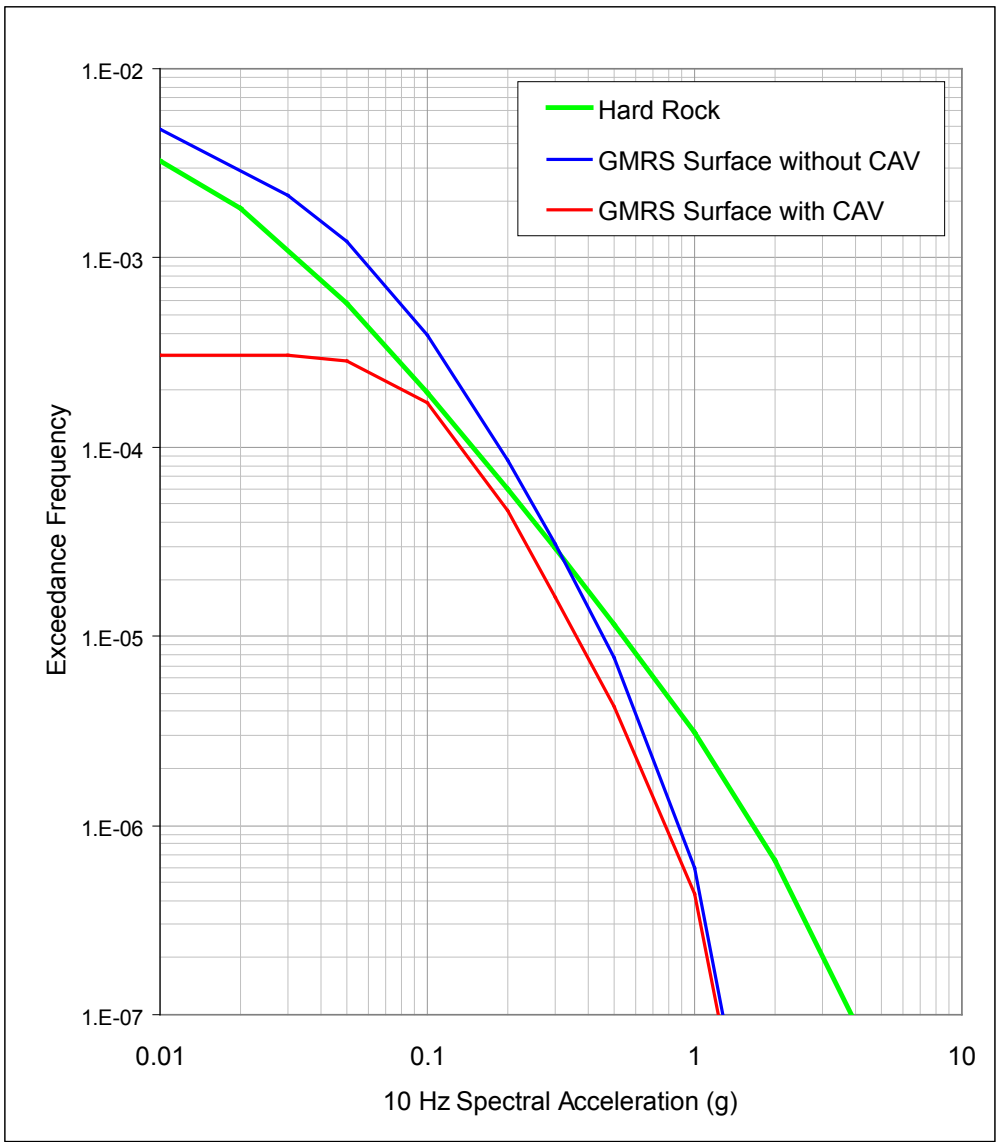


Figure 2.5.2-286. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 10-Hz Spectral Acceleration

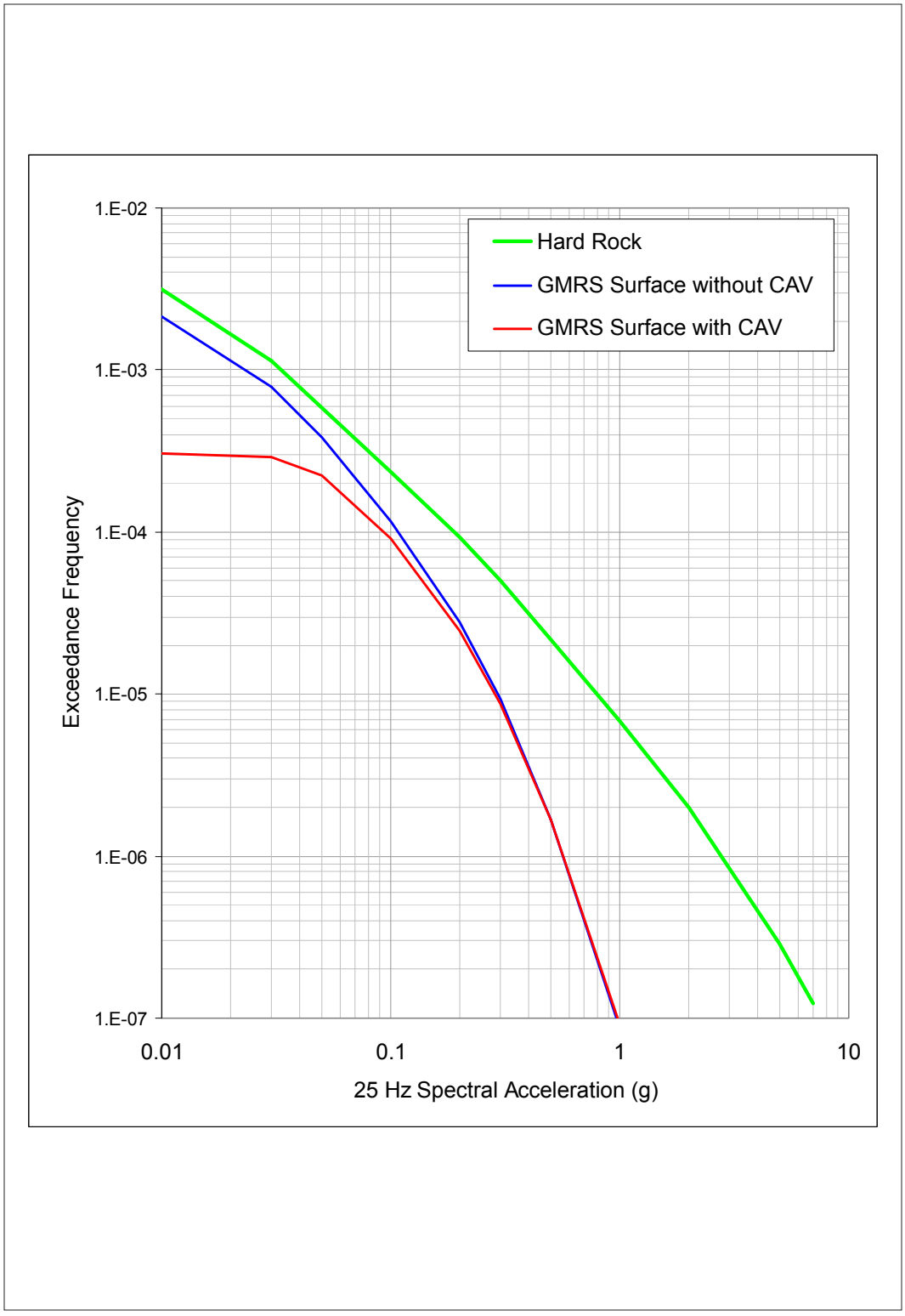


Figure 2.5.2-287. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 25-Hz Spectral Acceleration

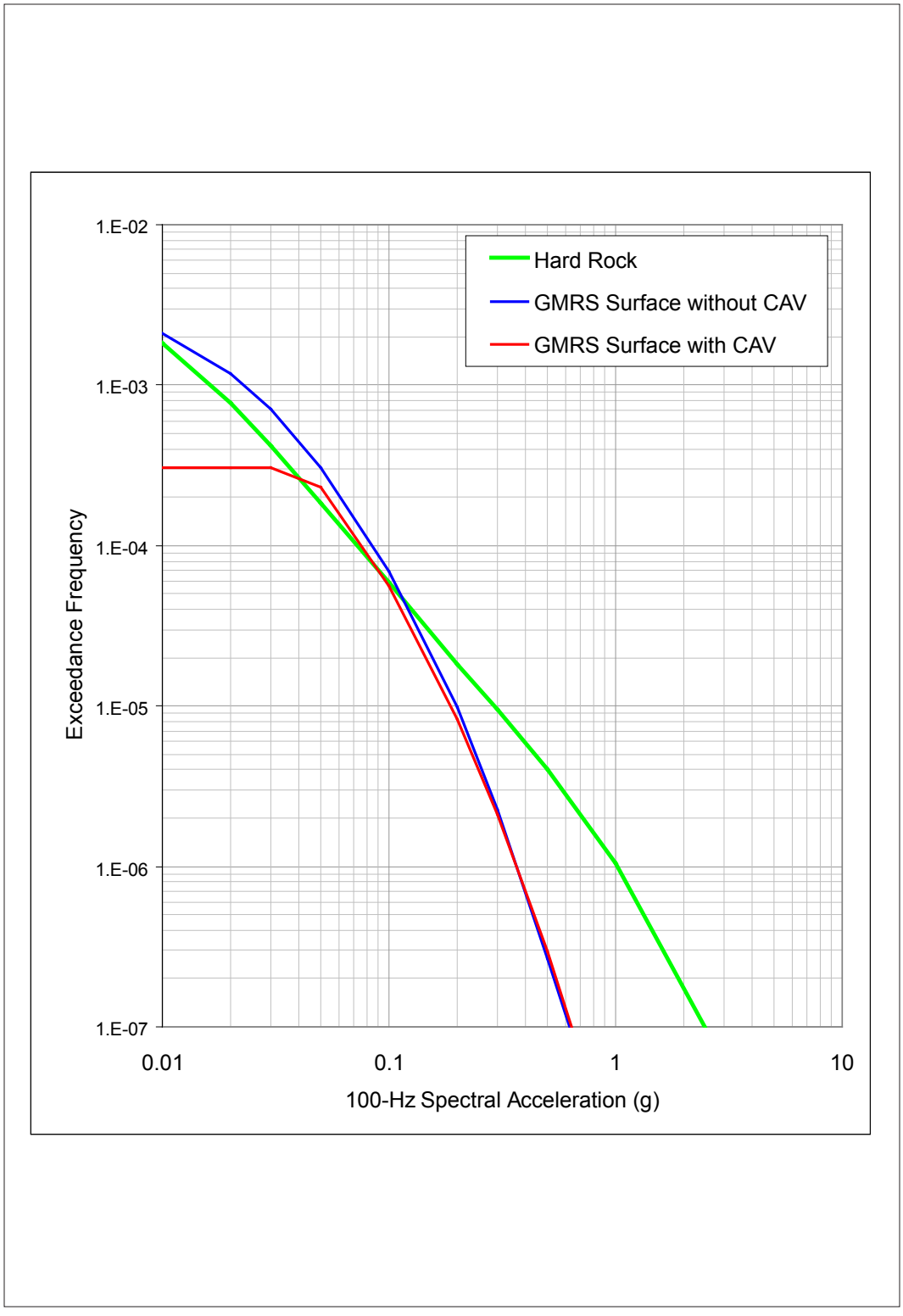


Figure 2.5.2-288. Surface Hazard Curves for the GMRS Profile Computed with and without CAV for 100-Hz Spectral Acceleration

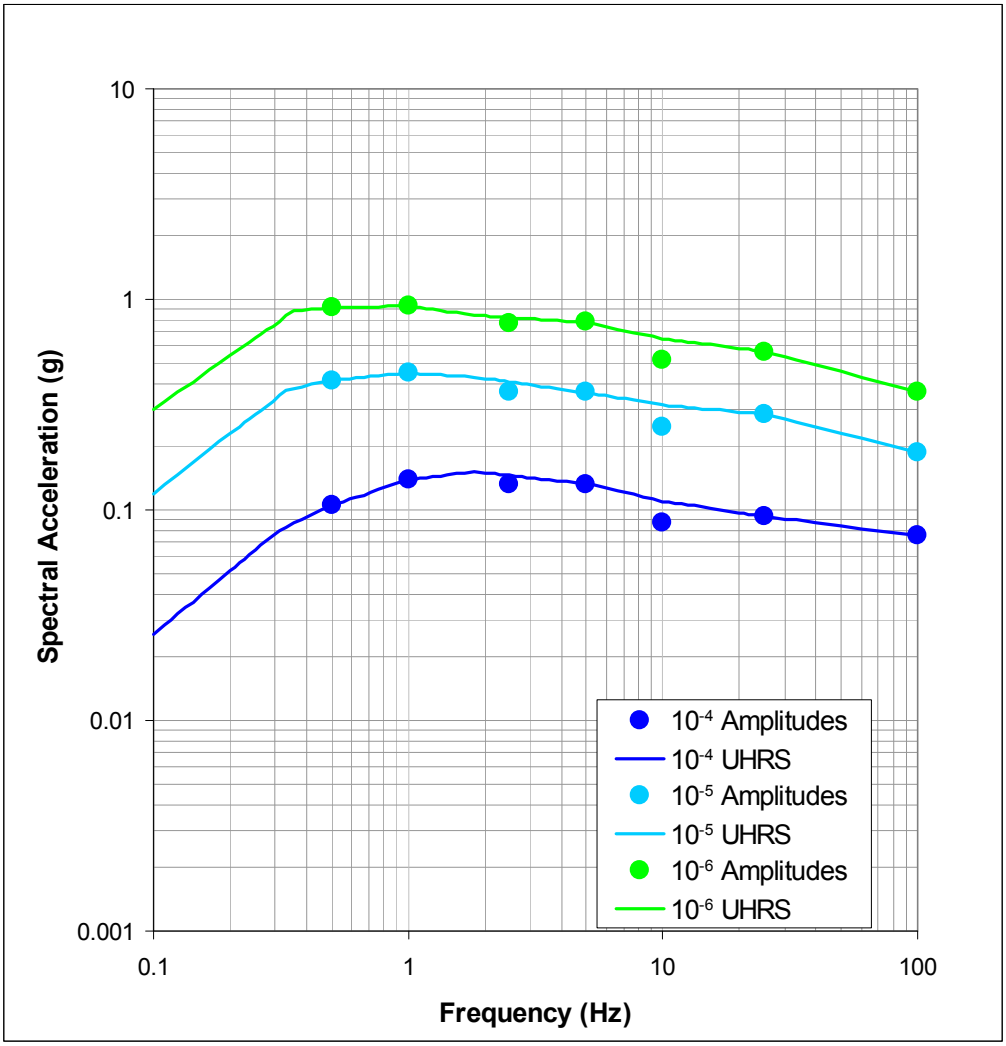


Figure 2.5.2-289. Development of Surface UHRS for the GMRS Profile

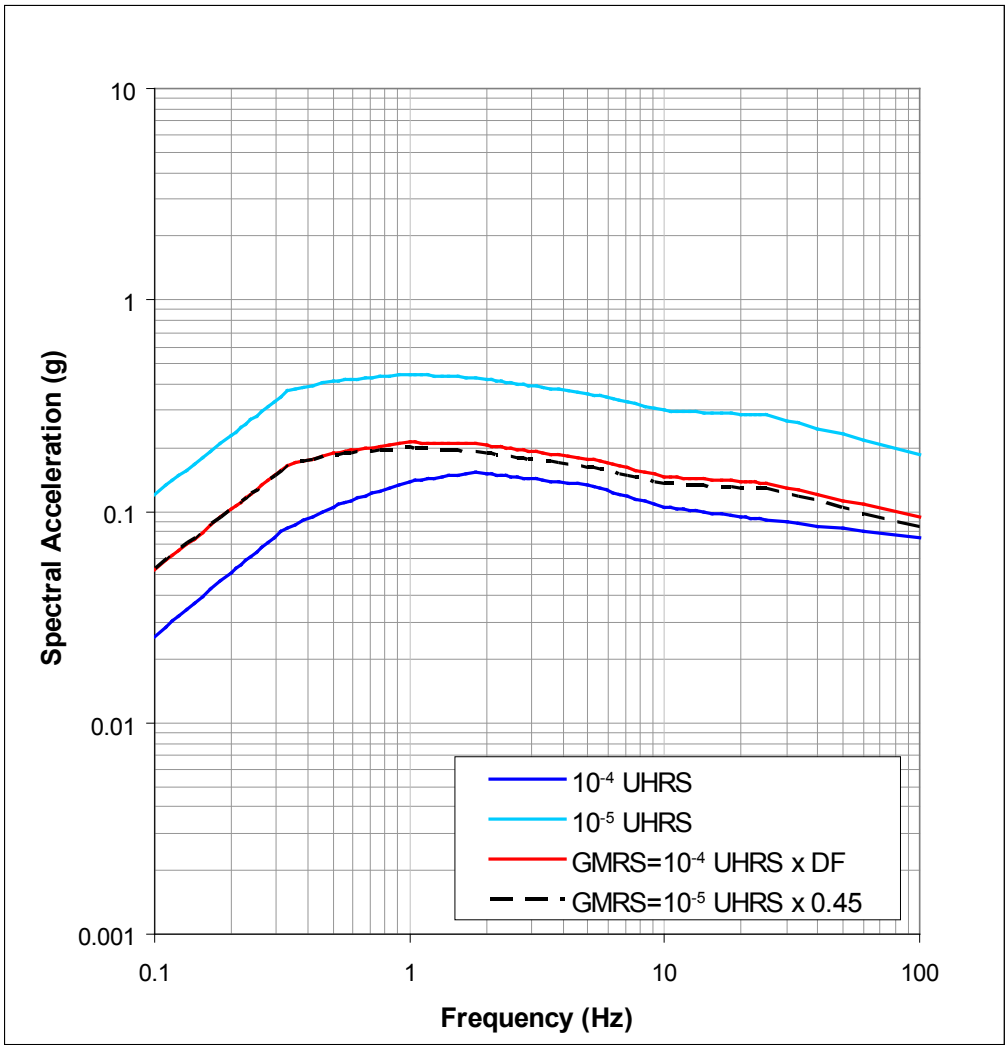


Figure 2.5.2-290. Development of the Horizontal GMRS for the RBS Site

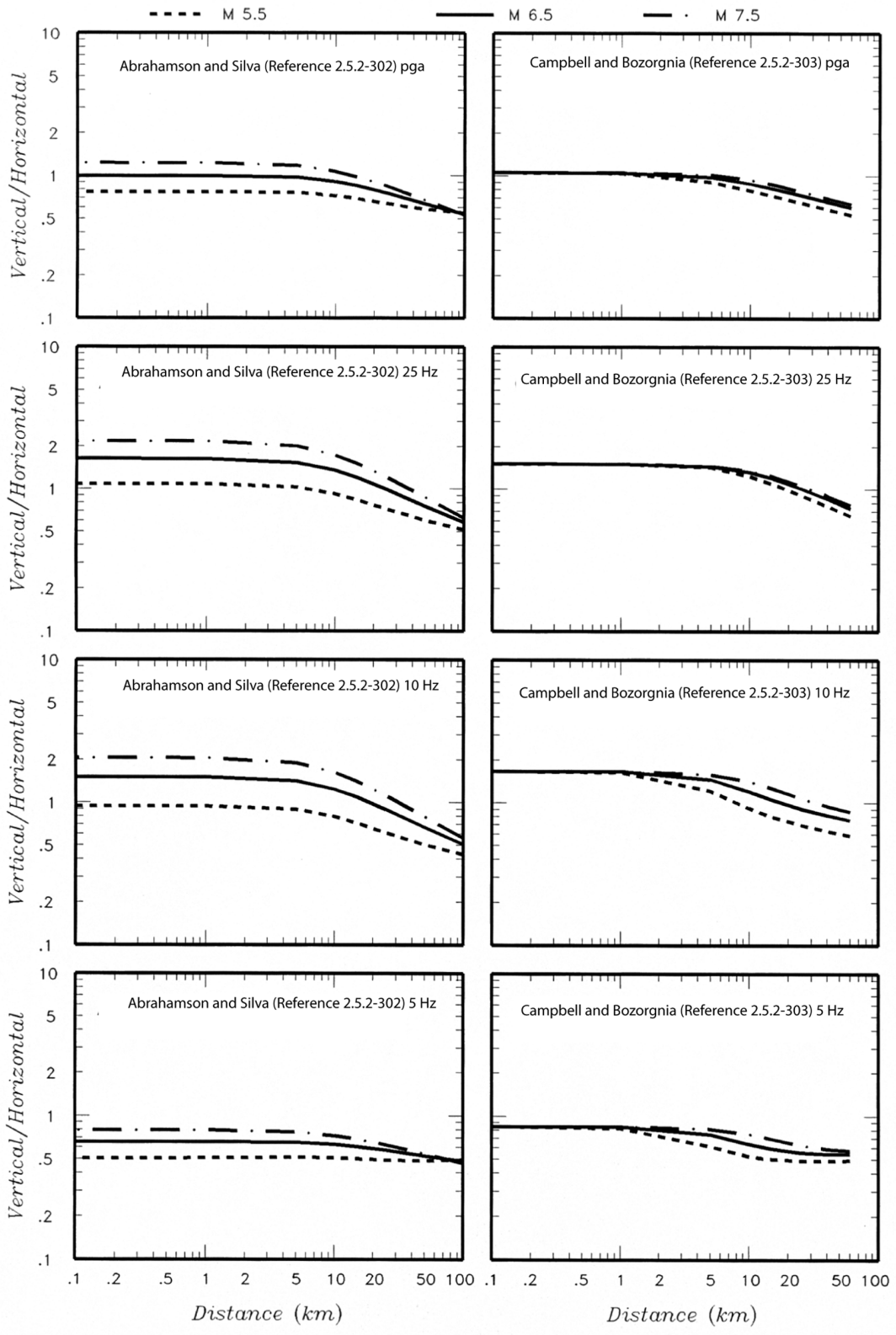


Figure 2.5.2-291. Empirical Vertical-to-Horizontal Spectral Ratios for Soil Sites and Frequencies from 5 to 100 Hz (PGA) **Revision 0**

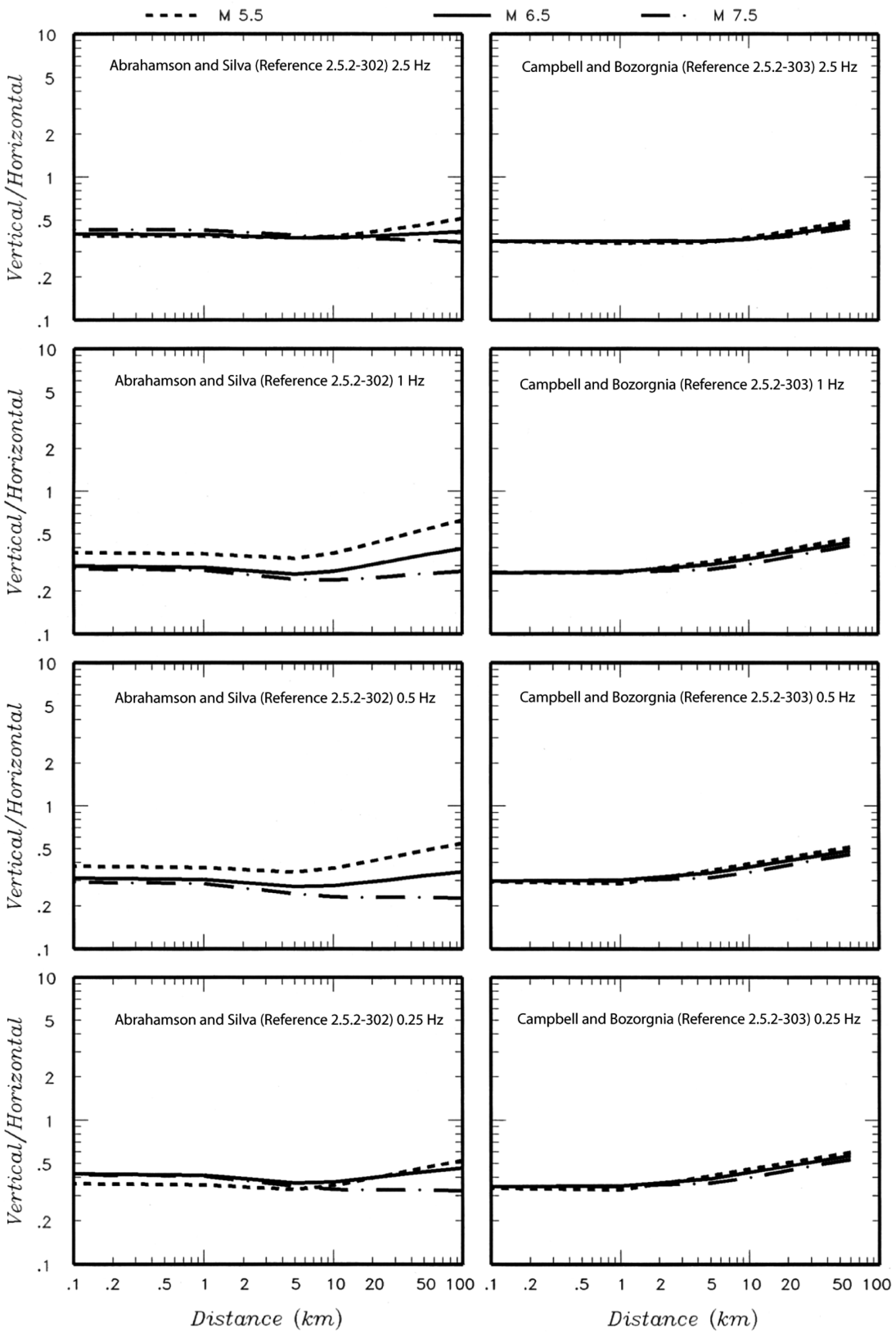


Figure 2.5.2-292. Empirical Vertical-to-Horizontal Spectral Ratios for Soil Sites and Frequencies from 0.25 to 2.5 Hz (PGA) Revision 0

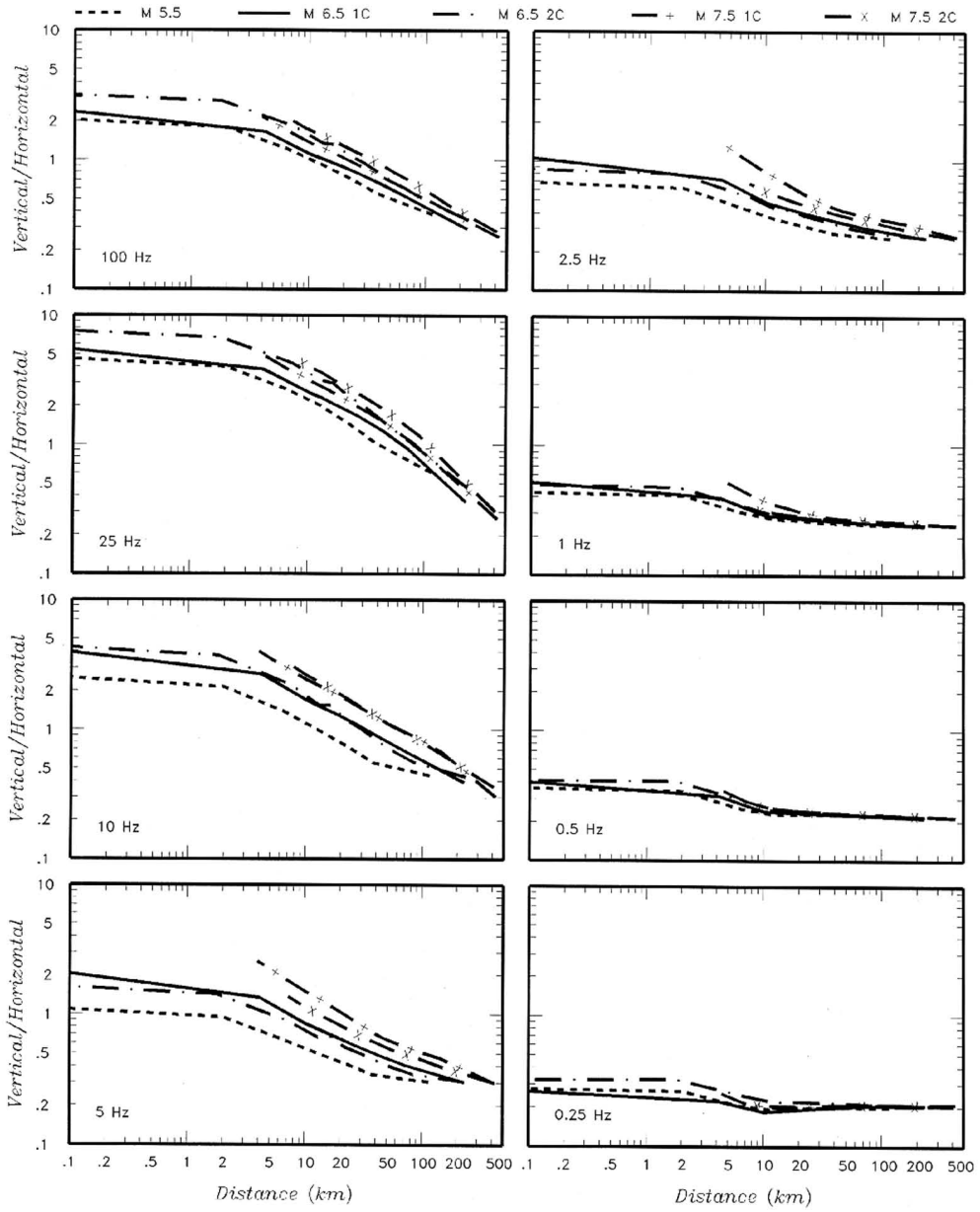


Figure 2.5.2-293. Site-Specific Vertical-to-Horizontal Spectral Ratios for the GMRS Analysis Profile

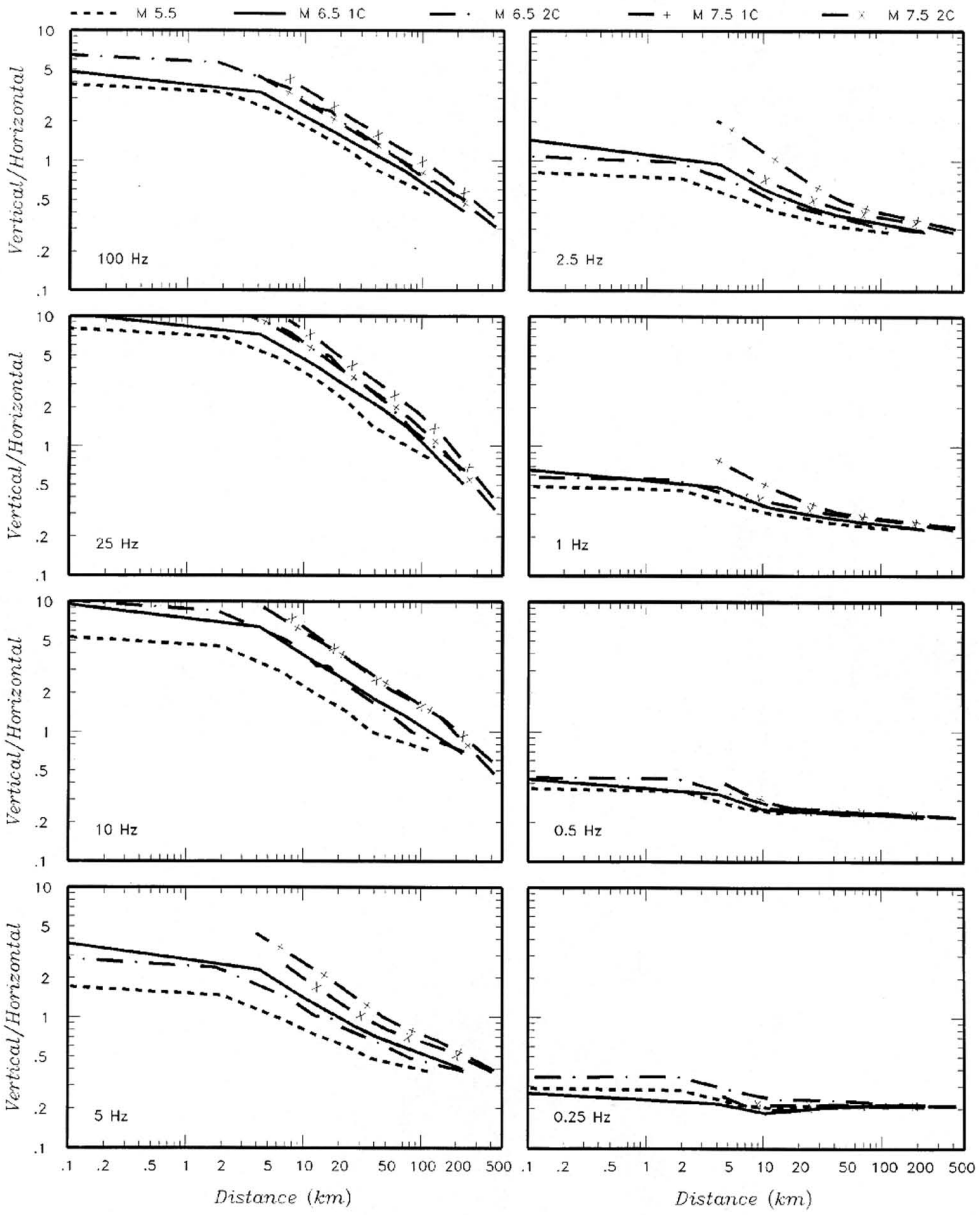


Figure 2.5.2-294. Site-Specific Vertical-to-Horizontal Spectral Ratios for the Finished Grade Analysis Profile

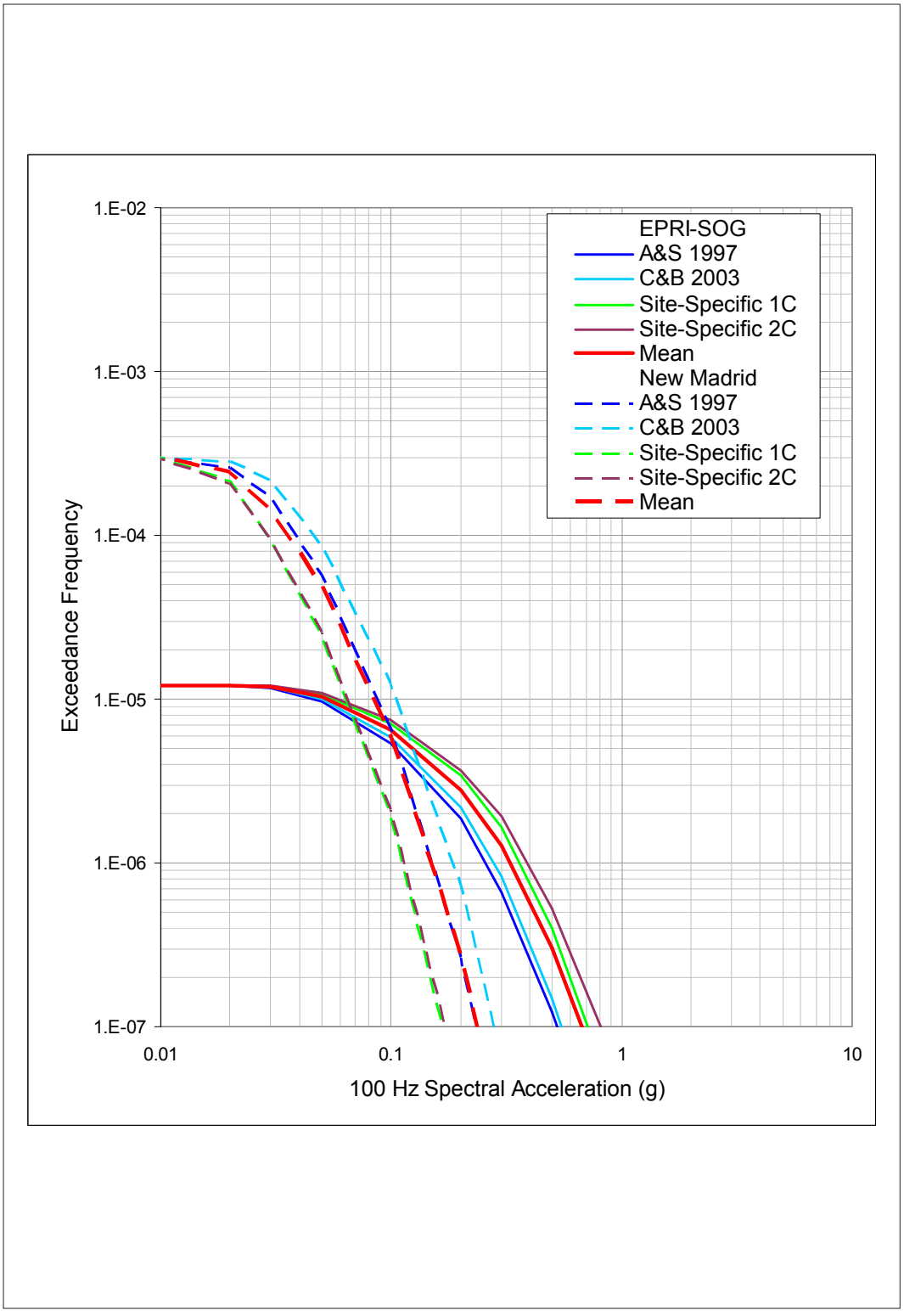


Figure 2.5.2-295. Development of Vertical Soil Hazard Curves for the New Madrid and EPRI-SOG Seismic Sources

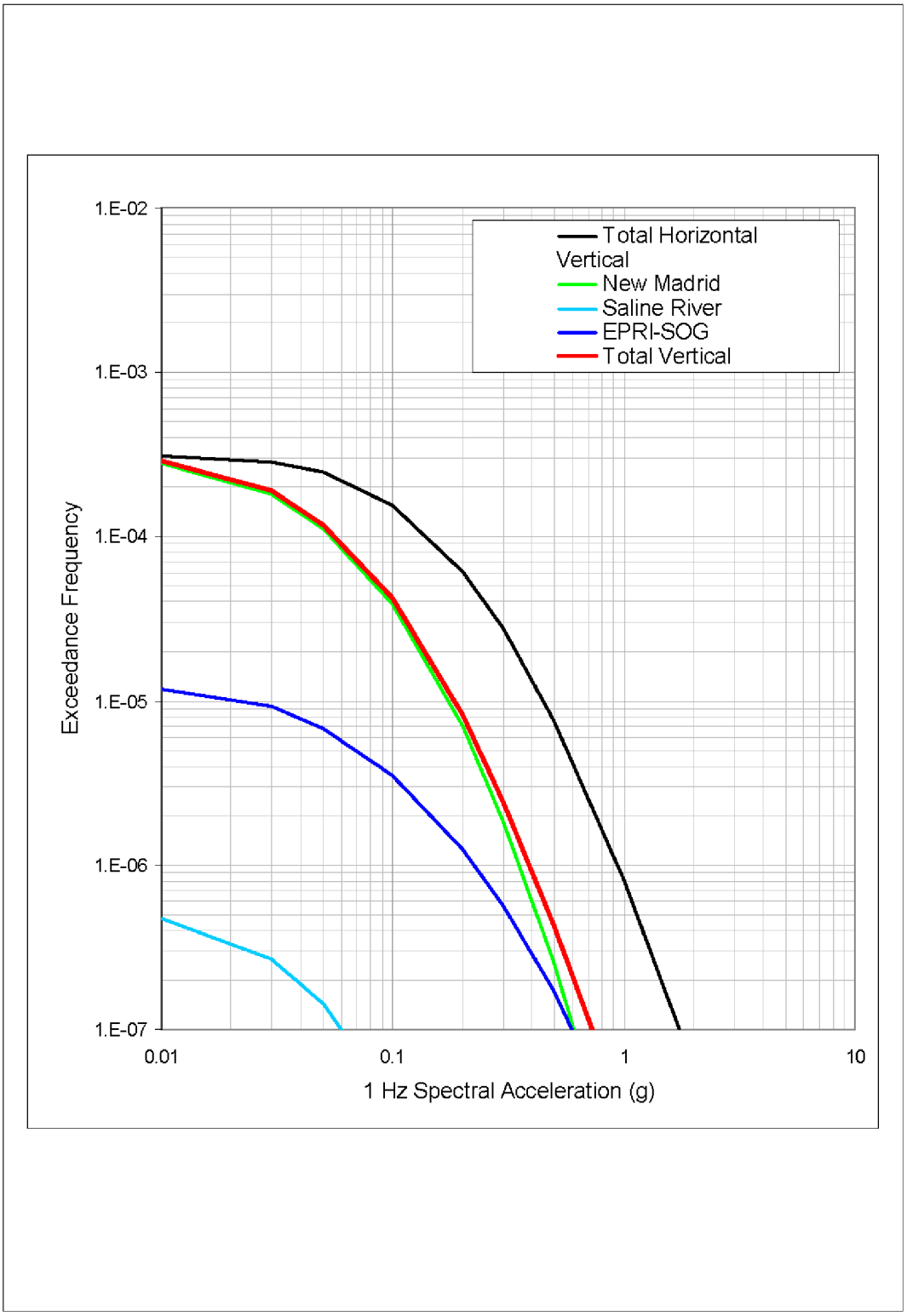


Figure 2.5.2-296. Vertical Surface Hazard Curves for the GMRS Profile for 1-Hz Spectral Acceleration

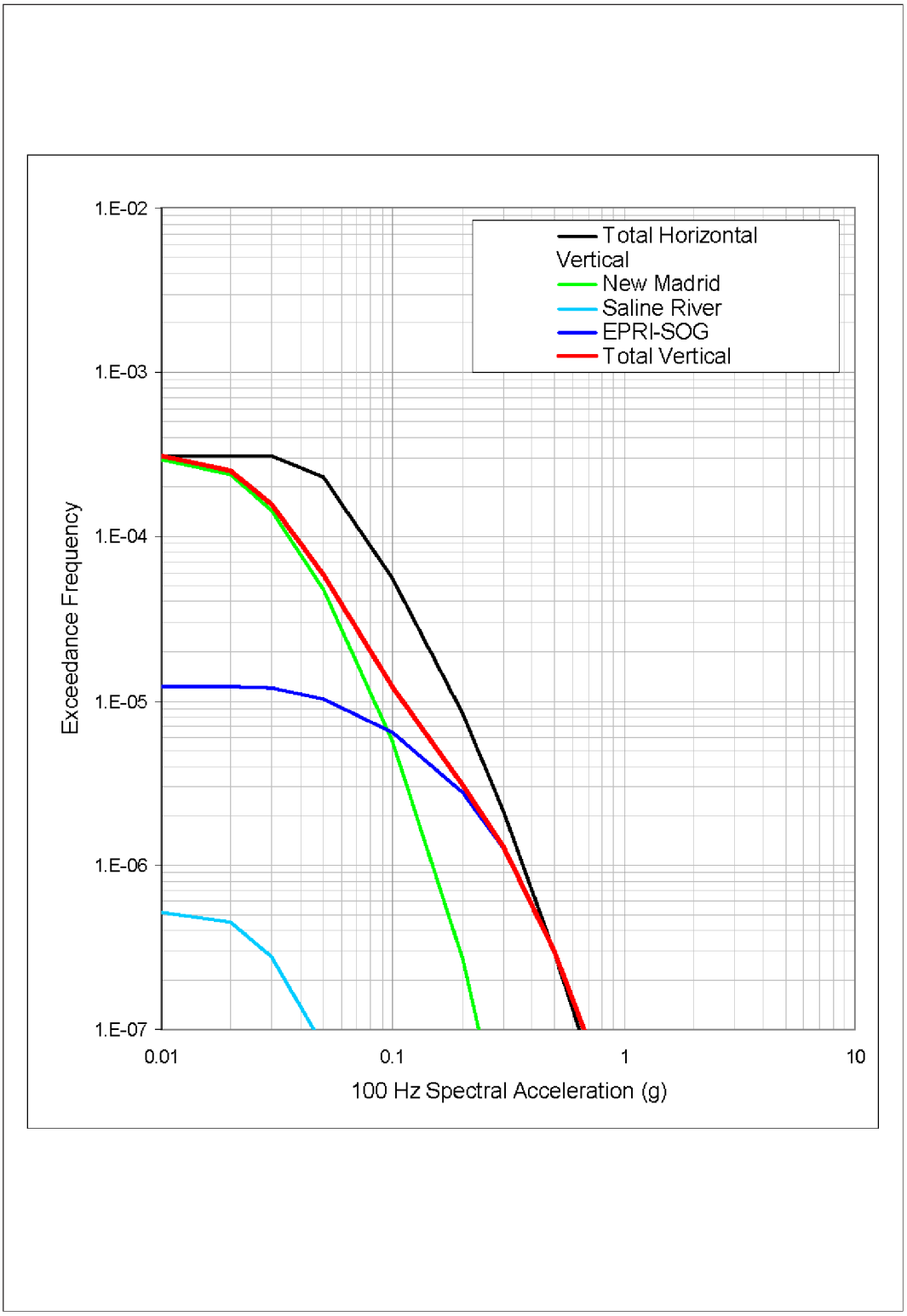


Figure 2.5.2-297. Vertical Surface Hazard Curves for the GMRS Profile for 100-Hz Spectral Acceleration

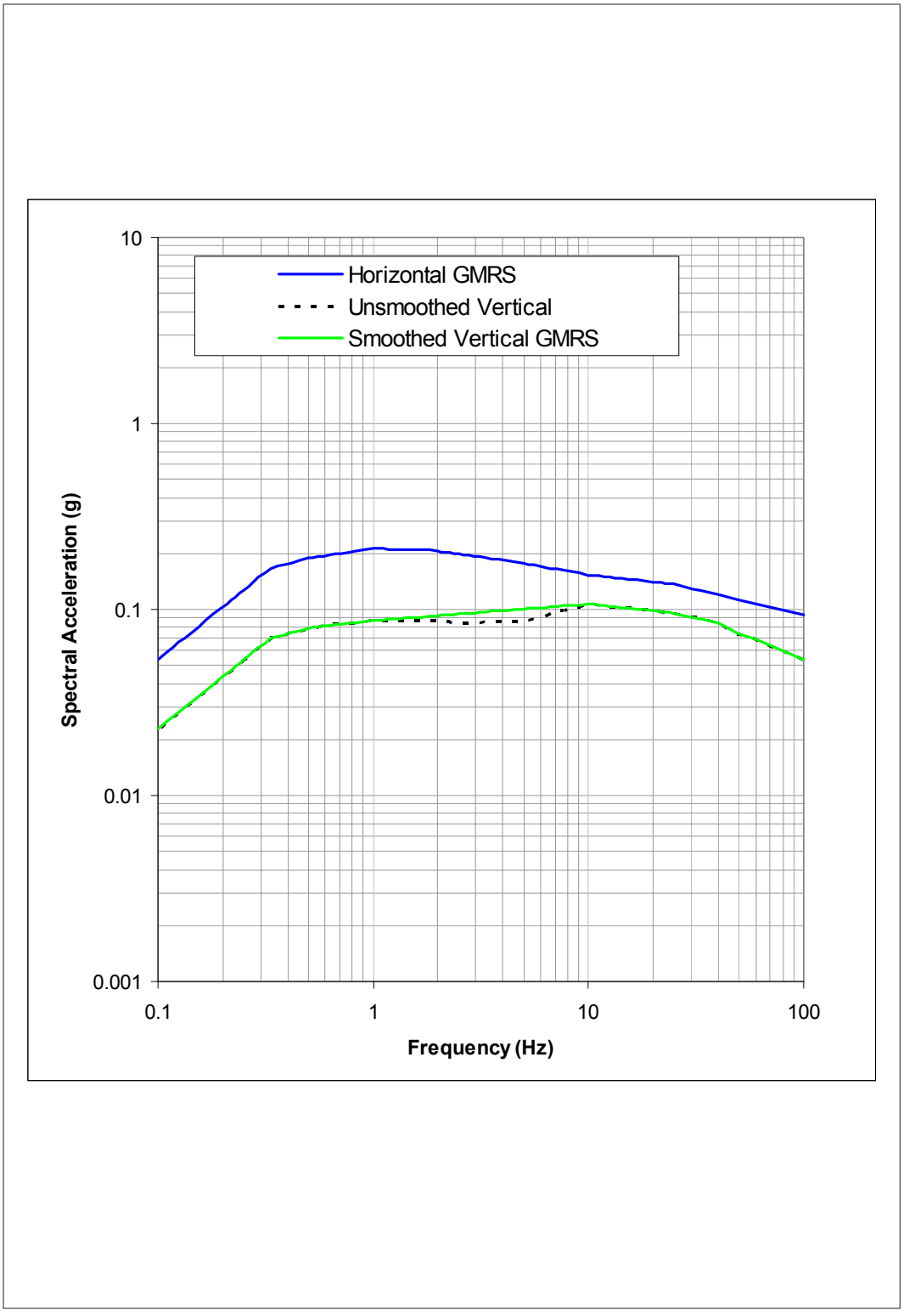


Figure 2.5.2-298. Development of the Vertical GMRS for the RBS Site

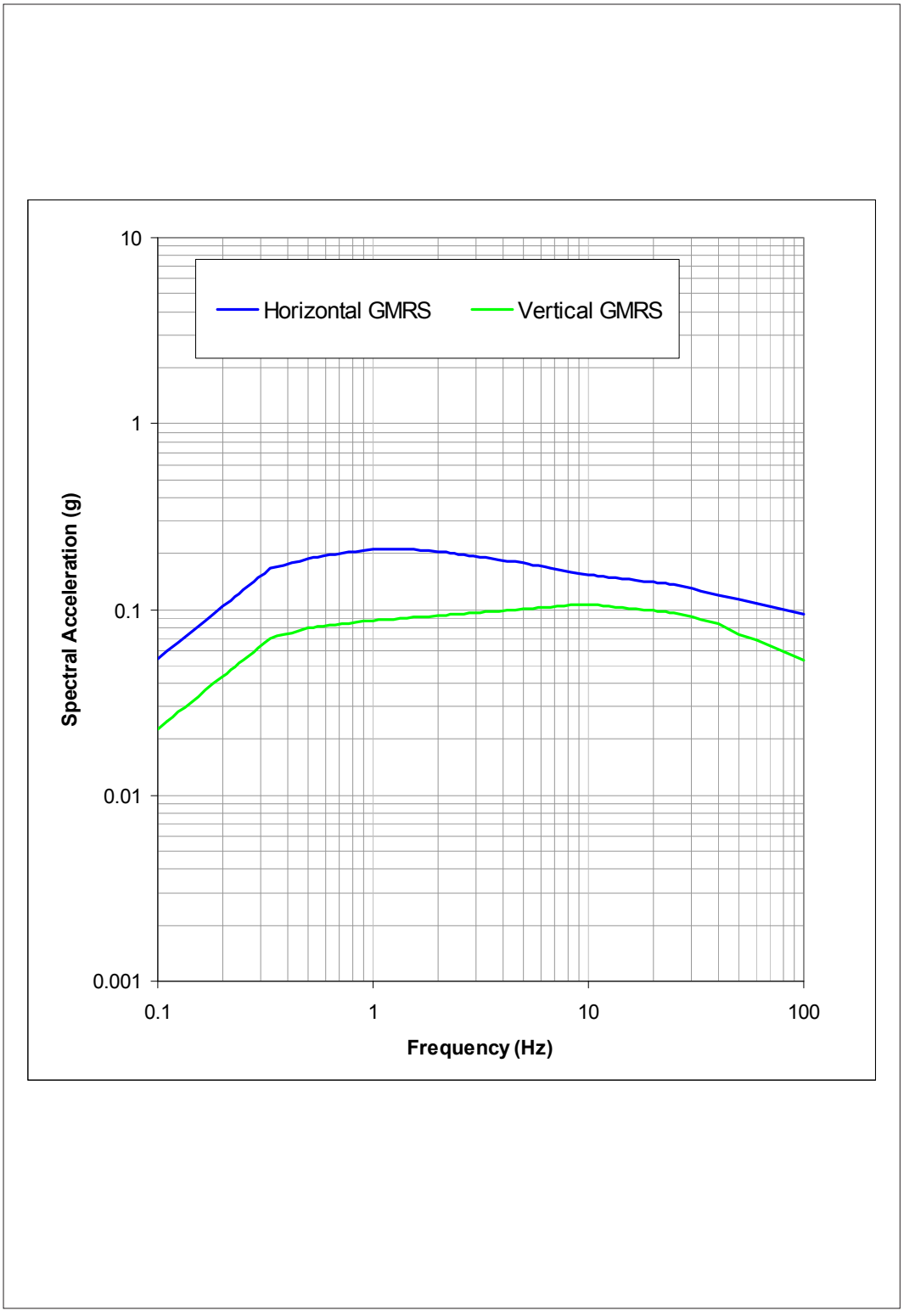


Figure 2.5.2-299. RBS GMRS (5 Percent Damping) **Revision 0**

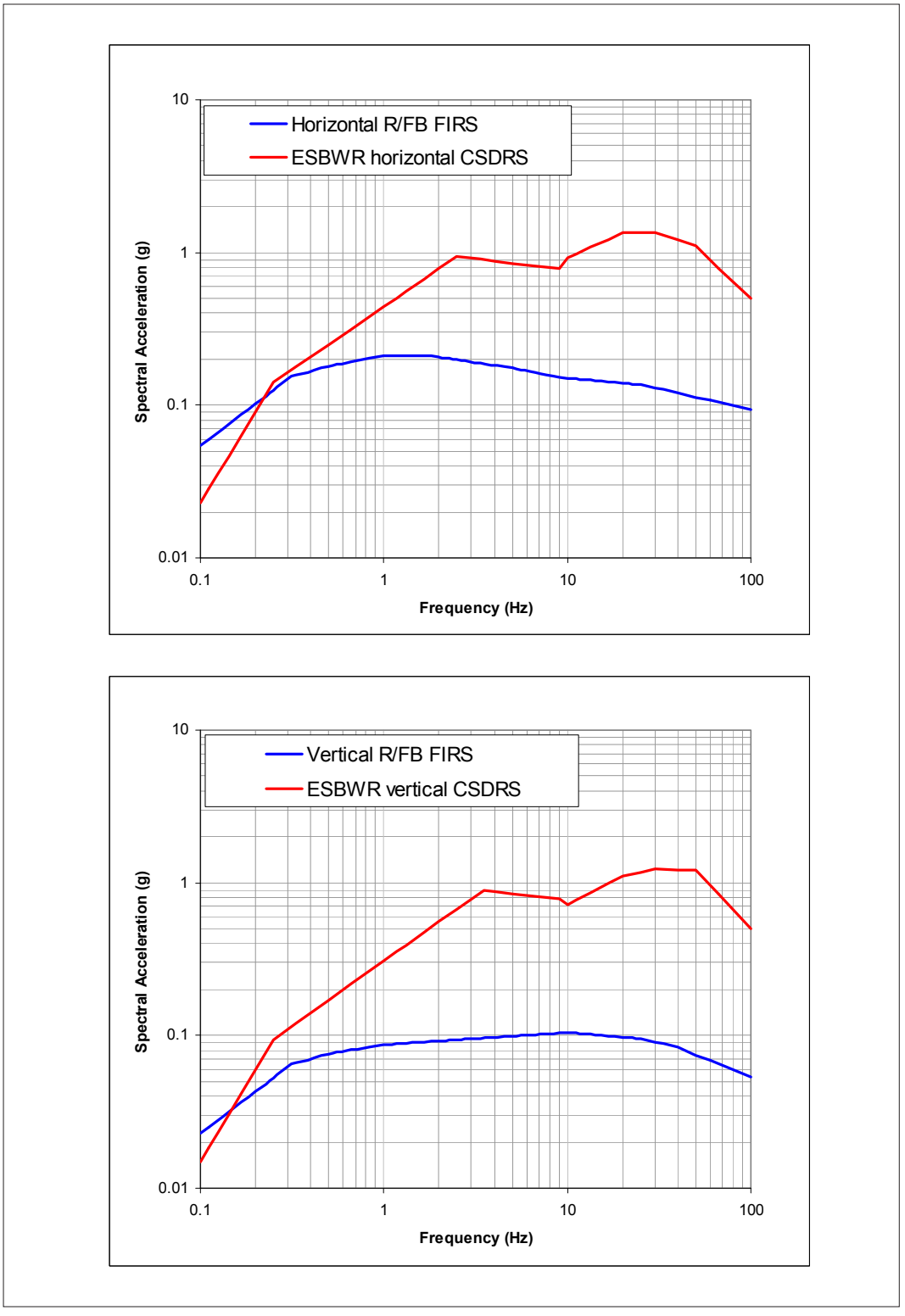


Figure 2.5.2-300. RBS R/FB FIRS (5 Percent Damping) **Revision 0**

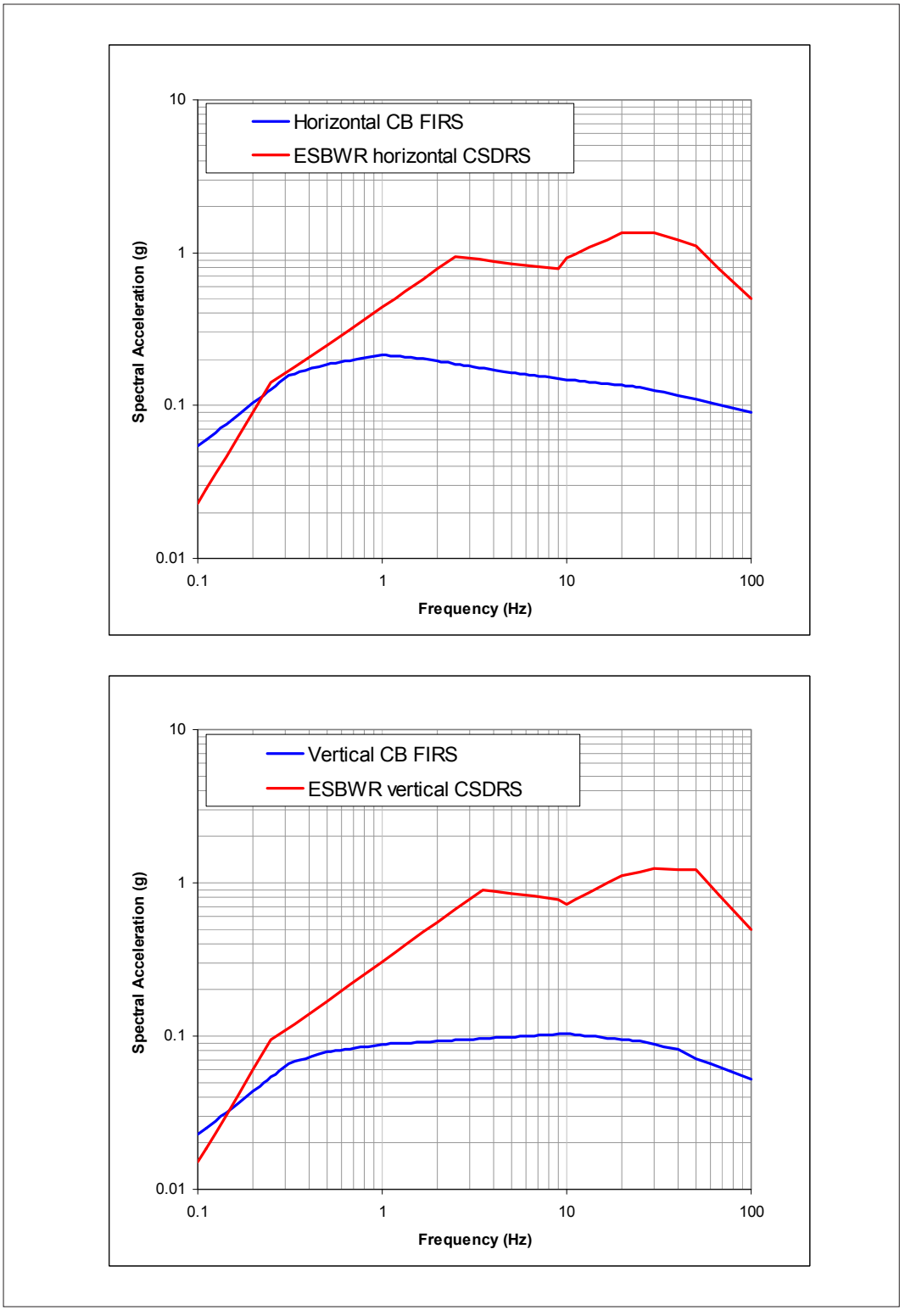


Figure 2.5.2-301. RBS CB FIRS (5 Percent Damping) **Revision 0**

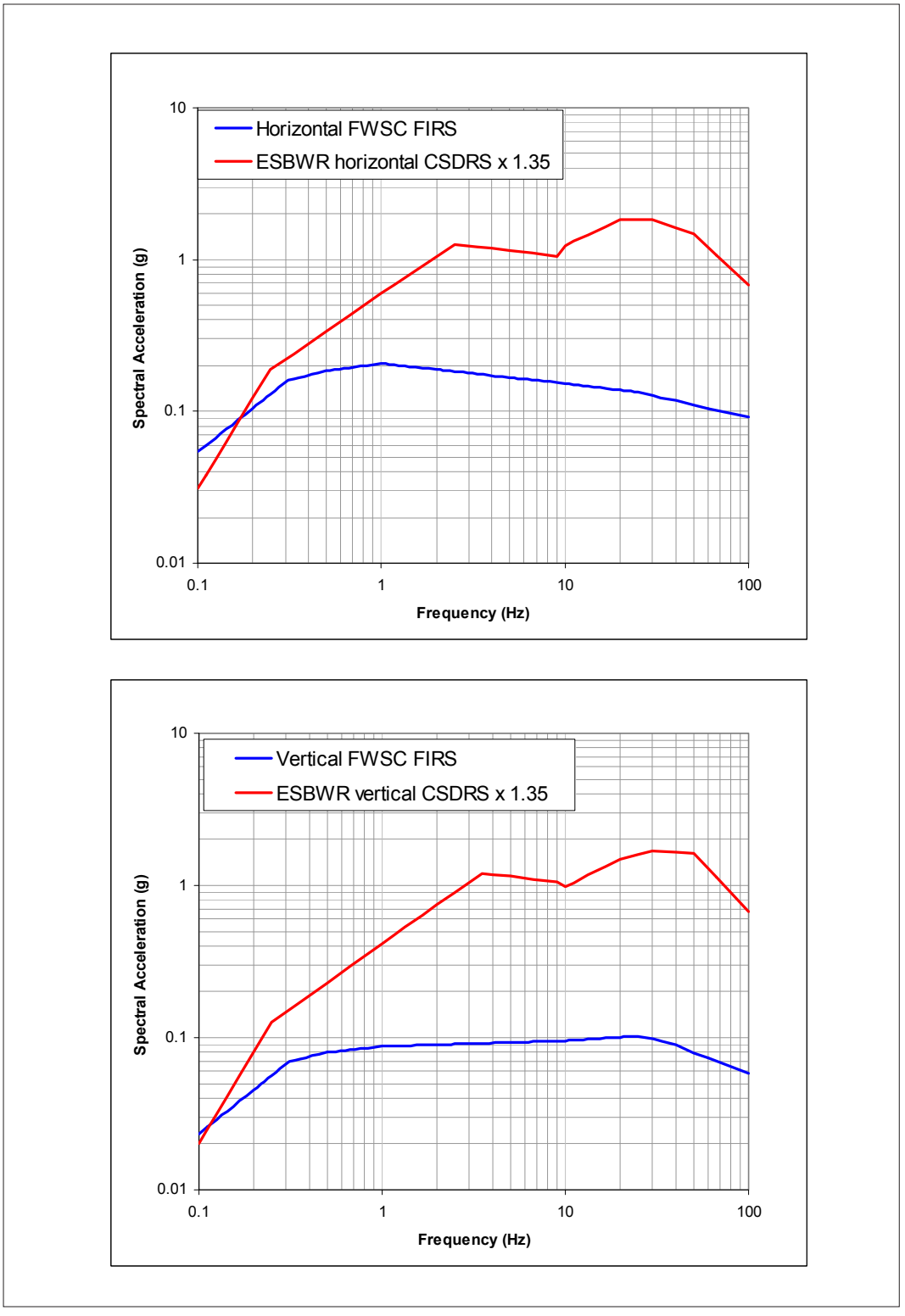


Figure 2.5.2-302. RBS FWSC FIRS (5 Percent Damping) **Revision 0**

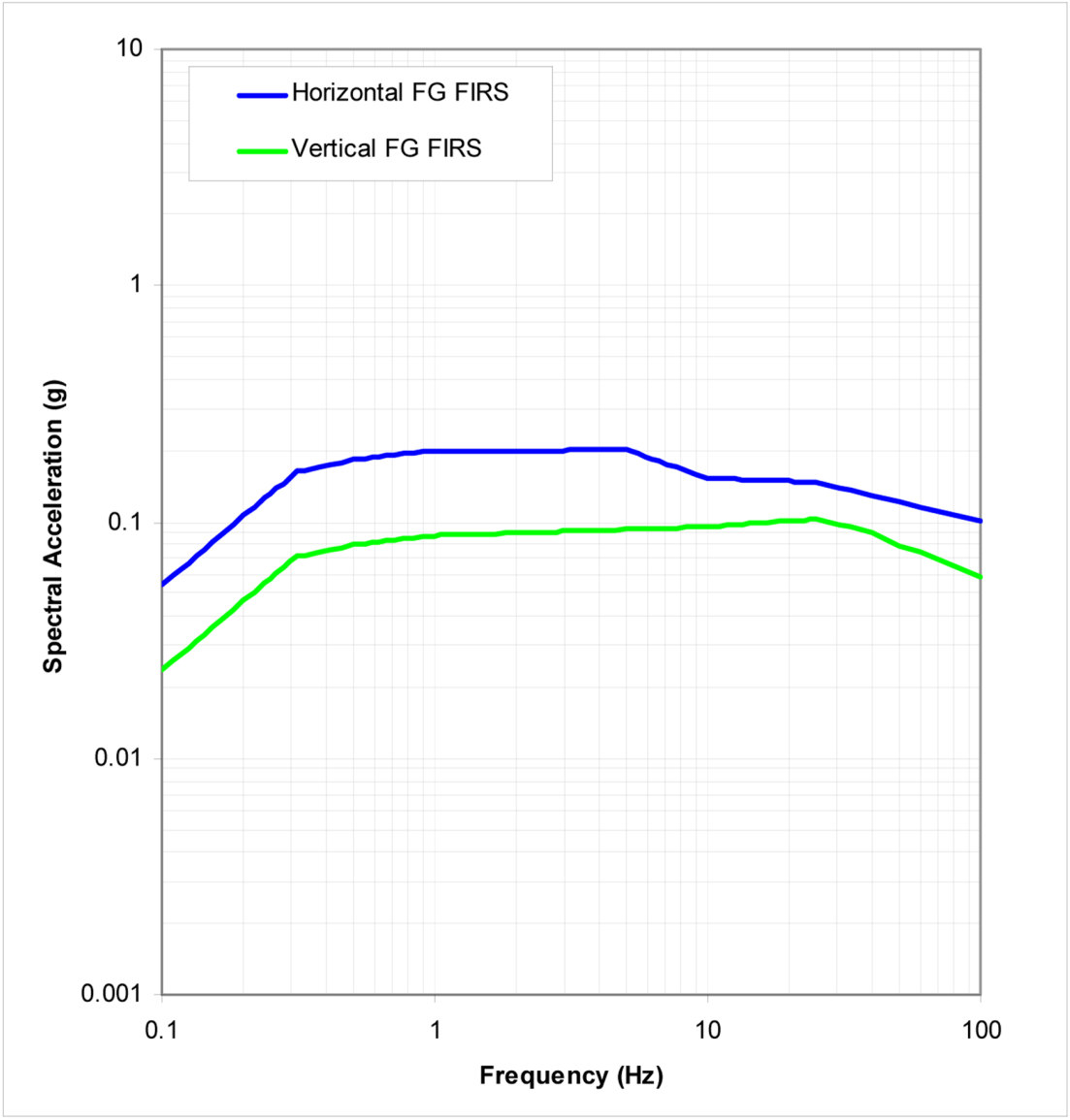


Figure 2.5.2-303. RBS FG FIRS (5 Percent Damping) **Revision 0**