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Table 1

STATION REQUIREMENTS FOR AN ISMS STANDARD STATION

Requirement Category .02-20 Hz (Alpha and Beta)* Pass Band 10 dB below Petersons low earth noise model Seismometer Noise within 5% in amplitude and 5° in phase Calibration 40 samples per second (\pm 50 μ s) Sample Rate 18 dB below Petersons low noise model Resolution 200 counts/nm @ 3 Hz Sensitivity 10 dB below Petersons low earth noise curve System Noise 126 dB Dynamic Range 90 dB over the pass band Linearity Timing Accuracy Operating Temperature 1 ms (Network standard timing required) -10° C to 45° C Authentication required a minimum of clock status, calibration status, and State of Heath vault status must be one of the official GSE formats Format TCP/IP (beta) Protocol < 15 seconds Delay in Transmission < 1 second Data Frame Length Priority given to IDC, then NDC Data Access 7 days Disk Buffer greater than 99% Data Availability Timely Data Transmission greater than 98% known within 100 m; relative location of array Station Location elements known to within 1 metre known within 1 degree Seismometer Orientation * 8.0 hertz for stations with "unique" capabilities