

This application is for a MIL-STD-188-125-1 Continuous Wave Immersion (CWI) and Shielding Effectiveness (SE) test that is required to confirm that the American Electric Power (AEP) enclosure, located at 1770 Georgesville Road, Columbus, Ohio 43228 provides the necessary attenuation across the frequency range as dictated by American Electric Power.

Each "transmission" will occur for a short interval at a total number of discrete frequencies (approximately 800) distributed evenly in log (frequency) space over the range of 100 kHz to approximately 20 MHz (the "low frequency" band) and 20 MHz to 1000 MHz (the "high frequency" band). The list or set of frequencies within each band and the associated transmissions are identified as a "sweep." For each sweep the transmissions will sequentially occur at each frequency in the list, starting with the first and progressing to the last in the list. The length of transmission at each discrete frequency will be approximately 30 milliseconds.

An individual sweep covering either the low or high frequency band will take on the order of 10 seconds. At the conclusion of the sweep data is transferred from the test equipment (an Agilent E5071C OREQ network analyser) to the controlling laptop PC and preparations are made for the next sweep (moving measurement probes, annotating the test log book, and so forth).

The sweep repeat rate or rate at which any individual frequency in a sweep will be revisited is thus variable.

We will notch out the frequencies that were on our original license WH9XFZ. – please see attached.

Attached is a sample frequency list that is generally used by Jaxon Engineering and Maintenance.