

From: Joseph Essex

To: Jose Trevino

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Subject: FCC file number 0547-EX-PL-2007

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Message:

The experimental site license would need to be a long term/permanent license. The purpose of this license is to enable the performance of shielding effectiveness testing of military EMI shielded shelters or components for use in these shelters. Our company produces these shelters for use by various government agencies. In order to ensure quality it is desired to perform testing on a significant number of shelters. We have current contracts which extent out more than 2 years and expect future business.

A brief description of this testing is the following:

A broadcasting antenna sends out an unpopulated signal at the test frequency to a receiving antenna. The difference in the signal from a test without shielding to with shielding is the shielding effectiveness measured in dBm. This value will differ from test point to test point and with different test frequencies.

The Nominal standard test frequencies for tests are the following:

Magnetic field (vertical & horizontal)

10 kHz

150 kHz

15 MHz

Plane Wave (vertical & horizontal)

400 MHz

1 GHz

10 GHz

We would monitor the frequency for the test prior to broadcasting to avoid interfering with existing signals.

We would broadcast at a single narrow band during a test. The test frequency would be supplied to the amplifier and broadcasting antenna by a signal generator with no modulation. The broadcasting antenna is located ~4 ft from the floor during the tests.