

AMENDMENT PURPOSE

The purpose of this amendment is to allow expanded testing on the entire band. We require the full band as we test and design throughout the band and the restriction of a single frequency on our current license makes many of our studies impossible. In the beginning we had applied for only a single frequency, which has been adequate until recent months. Our testing is generally very short to verify pattern and performance of new and current designs. To verify no interference will be caused, we utilize Comstudy 2.2 engineering software with an updated database... This allows our engineers to study a particular frequency prior to operation as well as model the performance of the antenna system. We later will use this data to compare to the “real world” performance exhibited by the system to “proof” the system. We understand that if interference is inadvertently caused, we must cease operation immediately.

Concerning the increase of power from 100 watts to 250 watts ERP, this is needed as we are testing higher power level antenna systems. In the beginning our scope was limited only to LPFM studies and now has expanded to higher power levels. We require up to 250 watts input and 250 watts ERP – generally for testing elliptical and circular polarization designs.

The additional frequencies are needed to test and demonstrate Remote Pick up units and Studio to translator links, equipment and antenna systems. Those frequencies included for the RPU and STL testing include the following:

152.8575	153.362	MHz
160.8625	161.3975	MHz
161.6275	161.7725	MHz
450.0275	455.6225	MHz
450.6375	455.8625	MHz
940	970	MHz

Concerning the frequency in the 530 Khz to 1710 Khz band. This is needed for testing of new AM transmission systems and demonstration of such.