

July 30, 2007

RE: Andrew Corporation

FCC ID: BCR-803D125

I have a few comments on this Application. Depending on your responses, kindly understand there may be additional comments.

1.) Please separate the Internal and External photographs into two discrete documents. FCC desires the photographs be provided as separate Internal and External exhibits.

[Please find separate internal and external photo exhibits](#)

2.) Please provide a Parts List. This is a requirement for all Licensed radio transmitters. These can be held Confidential if included as part of your Confidentiality Request letter.

[The part number and component value designations are included on the schematic diagrams. Is this sufficient for this requirement?](#)

3.) The IC application form does not match the label provided. Please review the model numbers.

[Please find a revised IC application form](#)

4.) The Test Setup photographs are out-of-focus. Moreover, I am unsure what test it is supposed to represent. If this is for transmitter Radiated Emissions, then you are reminded to always test with a load terminated transmitter as required by TIA/EIA 603. Since this is a bi-directional amplifier, it can be a bit tricky. Kindly review.

[I have tried to clear up the photos as much as possible and have included a comment pointing out the 50 ohm load. The signal source used to feed the signal to the device under test is located on the ground plane beneath the turntable. A 50 ohm SMA load is attached to the output coaxial port.](#)

5.) For Canada, you must specify the necessary bandwidth in addition to the emission designator on the Application forms. Please review.

[Please find an amended IC application form with the necessary bandwidths listed. These are the necessary bandwidths for a single channel, however, the booster tested is not limited to a single channel.](#)

6.) The emission designators shown on the application forms do not match those shown in the FCC Test Report section A9 page 12. Please review.

[The correct emission designators should be F3E and GXW to represent analogue voice and iDEN respectively. I have uploaded an amended report so that there is consistency between the application and the report.](#)

7.) The Canada test report uses a different set of emission designators than the FCC test report.

[The emission designators in the IC test report are the correct ones.](#)

8.) You have designated the Manual as a Confidential document. Except for very limited situations, manuals can never be held Confidential. This document appears instead to be the "Datasheet" listed in the Confidentiality Request letter. Please review.

[In the past Andrew has been able to do this based on the fact that they only provide installation manuals to the installer under a NDA.](#)

9.) Is this device intended to be sold with specific antennas approved by the manufacturer? If so, then specifications on these antennas would be advisable.

The device is not sold with any particular antenna. However, the Install manual specifies a maximum antenna gain of 12 dBi in order to ensure compliance with RF Exposure requirements.

10.) You are reminded that in the interests of limiting RF Exposure, it is required that MPE exhibit for this device be included. In addition, specific instructions to installers as to how antennas shall be installed must also be included in this filing – usually as an installation manual.

Please find an MPE prediction for this device. The install manual on page 1 includes a warning to the installer to maintain a 20 cm. separation between the antenna and nearby persons and specifies a maximum antenna gain of 12 dBi.

11.) In the interest of understanding this device, a gain chart of input to output power performed on mid channel, and for both uplink and downlink paths, would be helpful.

Pages 70 – 71 of the FCC report are intended to demonstrate the rf gain across frequency. The rf input level for these graphs is held at -50 dBm for the entire sweep. The nominal gain is 70 dB as stated in the manufacturer's data sheet.