

470 JT 2K1 Amendment



Dear Mr. Huie,

A. Mission Designator Field:

The Modulating Signal is WCDMA/OFDM and the necessary bandwidth is 30 MHz.
Upstream at 3.400 GHz to 3.430 GHz / 30 MHz bandwidth.
Downstream 3.500 GHz to 3.530 GHz / 30 MHz bandwidth.

B. Equipment to be used:

The Alberio 750 refers to a base station of which there will be only one unit required.
However the Jupiter 250 is a wireless subscriber modem of which we need to test the systems ability to work in a point to multi-point configuration. Therefore we will need to test somewhere between ten and fifty wireless modems simultaneously with the Alberio 750 Base Station.

C. Frequency

Our customer requirements call for the above frequencies mentioned above in A. Mission Designator section. This leaves me no room for movement regarding frequency.

However we conducted some tests in this frequency range with our mobile laboratory Woods Hole with our mobile laboratory and were unable to receive any emissions in this frequency range. Our test bed utilized a receive 3.4 to 3.5 GHz Circular Polarized Antenna with 15 dBi gain, cable loss of -10dB and an LNA with +17dB of additional gain into a spectrum analyzer.

D. Temporary Licence:

Six months would be fine as long as I would be able to request an extension so that I would be able to test the network during each of the seasonal changes. The heavy vegetation and high tree canopy greatly affects the propagation of our RF signal and it is very important to us to be able to fully understand these affects.

I would however like to request a change to the start date and move it to March 15, 2002.