

Emissions Characteristics

For our experimental testing, we intend to decrease the antenna flange power spectral density from -14 dBW/4 kHz by the amount of the worst case azimuth gain non-compliance. By reducing the antenna flange power spectral density, adjacent satellite interference will be meet the intent of Section 25.209 and the SES Americom affidavit previously filed.

We plan to transmit digital OQPSK carriers with the following characteristics:

Non-Spread Spectrum Carrier

Occupied bandwidth = **2458** kHz

Power into Antenna = **6** Watts

EIRP = **8** kW

Power Spectral Density into antenna = -20 dBW/4KHz

Max. Gain difference in Azimuth between antenna and FCC209 = 5.2 dB

Equivalent PSD into an FCC209 compliant antenna = -15 dBW/4KHz

16x Spread Spectrum Carrier

Occupied bandwidth = **8602** kHz

Power into Antenna = **20** Watts

EIRP = **28** kW

Power Spectral Density into antenna = -20 dBW/4KHz

Max. Gain difference in Azimuth between antenna and FCC209 = 5.2 dB

Equivalent PSD into an FCC209 compliant antenna = -15 dBW/4KHz

Paul Moller
Intellicom Technologies Inc
480-993-2220
Cell 480-226-1493
PMoller@ITCcom.net

