

Purpose of Modification

Sunday, June 26, 2005

The purpose of this modification is:

1. To add a second identical antenna and transceiver. This is desired for our testing and experimental activities.
2. To add a new emission type to both the existing and the new antenna. This emission type is direct sequence BPSK spread spectrum. This emission will have spreading of up to 15 times or 11.8 dB. The off-axis EIRP values generated by the terminal in the transmit band are reduced to that of a compliant antenna by decreasing the power spectral density from -14 dBW/4kHz to -22 dBW/4kHz.

An affidavit from the impacted carrier, SES-Americom, for the spread spectrum transmission is submitted with this modification.

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