

Waiver Non-compliant Antenna

In this application, Satcom Transportables proposes to employ the AVL 2400C 2.4m C-band earth station antenna.

The AVL 2400C antenna has been recognized as non-compliant with the antenna performance standards defined in 47 C.F.R. Ch. 1 §25.209. Per the instructions set forth in the FCC International Bureau Public Notice DA 09-425 ("International Bureau Establishes Website for List of Previously Approved Non-Routine Earth Station Antennas"), Satcom Transportables cites the following non-routine earth station application to serve as a reference for this application: Reference Application File Number: SES-LIC-20071102-01525 Reference Call Sign: E070255.

Satcom Transportables will operate the earth station associated with its' application at a level 14.3 dB below the maximum power density into the antenna defined in 47 C.F.R. Ch. 1 §25.212(d)(2). As such, the maximum RF density will not exceed -17.0 dBW/4kHz. The power density restrictions specified by the FCC for small diameter antennas utilizing digital traffic at C-Band is -2.7 dBW/4 kHz. This antenna will operate at a maximum transmit power density of -17.0 dBW/4 kHz which will account for any shortfall in the antenna pattern to 47 C.F.R. Ch. 1 §25.209.

The earth station applicant certifies that the operation of this antenna will conform to the requirements of 47 C.F.R. Ch §25.220 as the previous license grants using this antenna.

Furthermore, Satcom Transportables understands that it is not protected from interference which may result from the AVL 2400C antenna's main lobe and/or side lobe performance characteristics. As such, Satcom Transportables will only seek protection to the level associated with an antenna meeting the performance standards defined in 47 C.F.R. Ch. 1 §25.209.