

Non-Compliant Antenna Waiver Request

Response to Form 312, Schedule B, Question E15

Re: 2.4 Meter Fixed Earth Station
Fixed Satellite Service
C-Band 5925 – 6425 MHz

This antenna is an AVL Technologies 2.4 meter antenna and it does not strictly comply with 25.209 of the FCC Rules and Regulations.

In the Part 25 Earth Station Fifth Report and Order, the Federal Communications Commission (Commission) adopted streamlined procedures for reviewing non-routine earth station license applications. As part of that Report and Order, the Commission directed the International Bureau to create a list of approved non-routine earth station antennas to be posted on the Commission's website. The Commission concluded that a website listing approved non-routine antennas, including antenna gain patterns and the conditions placed on the use of each antenna, would help applicants in preparing applications for non-routine earth station licenses and expedite review of these applications.

Earth station applicants proposing to use an antenna that is on this list will no longer need to attach antenna radiation plots as an exhibit to their applications, as required by Section 25.132(b)(3) of the Commission's rules. They need only provide an attachment to their applications citing the particular non-routine earth station antenna they plan to use, and an application file number and call sign of a license in which that type of non-routine antenna has been approved.

Hurst USA, Inc. has successfully licensed an AVL Technologies C-band, 2.4 meter earth station. The application file number (SES-LIC-20070427-00529) and call sign (E070079) of their licensed AVL Technologies 2.4 meter earth station, indicates that the 2.4 meter antenna proposed in this application will operate without conflicts.

The licensee of Call Sign E070079 has a licensed satellite arc from 60° to 143° West Longitude, and has limited their RF transmit power density to -13.0 dBW/4 kHz (EIRP Density of 28.8 dBW/4 kHz).

The maximum input spectral power density into the antenna for the proposed 2.4 meter AVL Technologies antenna in this application will not exceed -13.1 dBW/4 kHz (EIRP Density of 28.7 dBW/4 kHz). This application references the satellite arc from 60° to 143° West Longitude.

Per §25.115(h)(4) the earth station applicant certifies that it will limit its pointing error to 0.5°.

Summary

The application file number (SES-LIC-20070427-00529) and call sign, (E070079), of a previously licensed AVL 2.4 meter earth station, indicates that the 2.4 meter antenna proposed in this application will operate without conflict.

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 -13.1 dBW/4 kHz.

If the use of this antenna should cause interference to other systems, the applicant will terminate such transmissions immediately upon notice from the FCC or offended parties.