

Waiver Non-Compliant Antenna

Re: 3.8 Meter Fixed Earth Station
Fixed Satellite Service
C-Band 5925 – 6425 MHz, 3700 – 4200 MHz

This antenna is a Prodelin 3.8 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 (FCC) 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.

The application file number (SES-LIC-20061207-02105) and call sign (E060432), of a previously licensed Prodelin 3.8 meter earth station, indicates that the 3.8 meter antenna proposed in this application will operate without conflict.

The 4 GHz antenna pattern contained with this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the 1° to 1.5° region by a maximum of 6 dB at 4 GHz. Outside the main beam, the antenna meets the requirements of 25.209.

The applicant agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna in the 1° to 1.5° region. The applicant understands that no adjacent satellite interference protection will be available in the 1° to 1.5° regions. The applicant understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209. Should the use of this antenna cause interference to other systems; the applicant agrees to terminate transmission upon notice from the Commission.

The 6 GHz antenna pattern for this proposed earth station meets the antenna performance standards set forth in CFR 25.209.

Summary

The 4 GHz antenna pattern contained with this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the 1° to 1.5° region by a maximum of 6 dB at 4 GHz. Outside the main beam, the antenna meets the requirements of 25.209.

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