

Non-Compliant Antenna Waiver Request

Response to Form 312, Schedule B, Question E15

Re: 3.8 Meter Fixed Earth Station
Fixed Satellite Service
C-Band: 5925 – 6425 MHz (Transmit)
3700 – 4200 MHz (Receive)

This antenna is an 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 (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 applicant 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.

Saga Communications of Charlottesville, LLC has successfully licensed a Prodelin, 3.8 meter earth station. The application file number (SES-LIC-20061207-02105) and call sign (E060432) of their licensed Prodelin 3.8 meter earth station, indicates that the 3.8 meter antenna proposed in this application will operate without conflicts.

The licensee of Call Sign E060432 has their licensed satellite arc from 43° to 139° West Longitude, and has limited their RF transmit power density to -10.4 dBW/4 kHz (EIRP Density of 35.5 dBW/4 kHz).

The maximum input spectral power density into the antenna for the proposed 3.8 meter Prodelin antenna in this application will not exceed -14.0 dBW/4 kHz (EIRP Density of 31.9 dBW/4 kHz). This application references the satellite arc limited to 99° West Longitude.

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

The applicant agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the Prodelin 3.8 meter antenna in the 1.5° to 2.0° region. The applicant understands that no adjacent satellite interference protection will be available in the 1.5° to 2.0° regions. The applicant further understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209.

Summary

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 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 -14.0 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.