

Waiver Non-Compliant Antenna

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

This antenna is a Prodelin Corporation 1251 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.

Global Crossing Americas Solutions, Inc. has successfully licensed Prodelin C-band, 2.4 meter (Model 1251) earth stations. The application file number and call sign, SES-LIC-20080519-00642 and E080110 of one of their previously licensed Prodelin 1251, 2.4 meter earth stations, indicates that the 2.4 meter antenna proposed in this application will operate without conflict as all others have with current license grants.

The maximum input spectral power density into the antenna for the proposed 2.4 meter Prodelin Corporation antenna will not exceed -17.3 dBW/4 kHz.

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.

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

In this case, the antenna exceeds the patterns of §25.209 in the 1° to 1.9° region measured at the low, mid, and high frequency bands, as well as in various portions of the frequency band from 100° to 175°. The Max EIRP Density at the Antenna Flange is -17.3 dBW/4KHz. This figure is below the maximum allowed of -2.7 dBW/4KHz by a margin of 14.6 dB.

Summary

The application file number (SES-LIC-20080519-00642) and call sign, (E080110), of a previously licensed Prodelin 1251, 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 -17.3 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.