

**Non-Compliant Antenna Waiver Request**

Re: .96 Meter Fixed Earth Station  
Fixed Satellite Service  
Ku-Band 11700 – 12200 and 14000 – 14500 MHz

The proposed antennas AVL 960K and Winegard DS960, .96 Meter earth stations do not strictly comply with 25.209 of the FCC Rules and Regulations. Further, the AVL and Winegard antennas are repackaged Channel Master TYPE 960 Antennas.

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.

The application file number and call sign, SES-MOD-20060321-00478 and E000658 of a previously licensed Channel Master 960, .96 meter earth station, indicates that the .96 meter antenna proposed in this application will operate without conflict.

The maximum input spectral power density into the antenna for the proposed .96 meter Channel Master 960 (AVL 960K and Winegard DS960) antenna will not exceed -19 dBW/4 kHz.

In this case, the antenna exceeds the patterns of §25.209 in the 1.25° to 1.72° region measured at the low, mid, and high frequency bands, by a worst case difference of 3 dB. The Max EIRP Density at the Antenna Flange is -19 dBW/4KHz. This figure is below the maximum allowed of -14 dBW/4KHz by a margin of 5 dB.

The applicant to agree to accept any adjacent satellite interference in the 11/12 GHz receive band as a result of the performance of the antenna. 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.

Should the use of this antenna cause interference to other systems; the applicant agrees to terminate transmission upon notice from the Commission.

The minimum elevation angle of the proposed earth station will not exceed the minimum elevation angle of 5° of the previously licensed .96 meter under Call Sign E000658, therefore the antenna gains for the proposed will not exceed those of that previously licensed with respect to any transmit power limitations.

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

### **Summary**

The antenna pattern contained with this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the 1.25° to 1.72° region. Outside the main beam, the antenna meets the requirements of 25.209.

The application file number (SES-MOD-20060321-00478) and call sign, (E000658), of a previously licensed Channel Master 960, .96 meter earth station, indicates that the 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 Ku-Band is -14 dBW/4 kHz. This antenna will operate at a maximum transmit power density of -19 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.

**Non-Compliant Antenna Waiver Request**

Re: .98 Meter Fixed Earth Station  
Fixed Satellite Service  
Ku-Band 11700 – 12200 and 14000 – 14500 MHz

The proposed antennas Prodelin1984, .98 Meter earth stations do 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.

The application file number and call sign, SES-MOD-20060321-00478 and E000658 of a previously licensed Prodelin1984, .98 meter earth station, indicates that the .98 meter antenna proposed in this application will operate without conflict.

The maximum input spectral power density into the antenna for the proposed .98 meter Prodelin1984 antenna will not exceed -19 dBW/4 kHz.

In this case, the antenna exceeds the patterns of §25.209 in the 1.25° to 1.72° region measured at the low, mid, and high frequency bands, by a worst case difference of 3 dB. The Max EIRP Density at the Antenna Flange is -19 dBW/4KHz. This figure is below the maximum allowed of -14 dBW/4KHz by a margin of 5 dB.

The applicant to agree to accept any adjacent satellite interference in the 11/12 GHz receive band as a result of the performance of the antenna. 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.

Should the use of this antenna cause interference to other systems; the applicant agrees to terminate transmission upon notice from the Commission.

The minimum elevation angle of the proposed earth station will not exceed the minimum elevation angle of 5° of the previously licensed .98 meter under Call Sign E000658, therefore the antenna gains for the proposed will not exceed those of that previously licensed with respect to any transmit power limitations.

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

### **Summary**

The antenna pattern contained with this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the 1.25° to 1.72° region. Outside the main beam, the antenna meets the requirements of 25.209.

The application file number (SES-MOD-20060321-00478) and call sign, (E000658), of a previously licensed Prodelin1984, .98 meter earth station, indicates that the 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 Ku-Band is -14 dBW/4 kHz. This antenna will operate at a maximum transmit power density of -19 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.

**Non-Compliant Antenna Waiver Request**

Re: 0.90x0.66 Meter elliptical Fixed Earth Station  
Fixed Satellite Service  
Ku-Band 11700 – 12200 and 14000 – 14500 MHz

The proposed antennas Swe-Dish XC90-66K, 0.90x0.66 Meter elliptical earth stations do 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.

The application file number and call sign, SES-MOD-20080616-00780 and E080144 of a previously licensed Swe-Dish XC90-66K, earth station, indicates that the 0.90x0.66 Meter elliptical antenna proposed in this application will operate without conflict.

The maximum input spectral power density into the antenna for the proposed 0.90x0.66 Meter elliptical Swe-Dish XC90-66K antenna will not exceed -19 dBW/4 kHz.

In this case, the antenna exceeds the patterns of §25.209 in the 1.25° to 2.0° region measured at the low, mid, and high frequency bands, by a worst case difference of 3 dB. The Max EIRP Density at the Antenna Flange is -19 dBW/4KHz. This figure is below the maximum allowed of -14 dBW/4KHz by a margin of 5 dB.

The applicant to agree to accept any adjacent satellite interference in the 11/12 GHz receive band as a result of the performance of the antenna. 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.

Should the use of this antenna cause interference to other systems; the applicant agrees to terminate transmission upon notice from the Commission.

The minimum elevation angle of the proposed earth station will not exceed the minimum elevation angle of 5° of the previously licensed 0.90x0.66 Meter elliptical under Call Sign E080144, therefore the antenna gains for the proposed will not exceed those of that previously licensed with respect to any transmit power limitations.

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

### **Summary**

The antenna pattern contained with this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the 1.25° to 2.0° region. Outside the main beam, the antenna meets the requirements of 25.209.

The application file number (SES-MOD-20080616-00780) and call sign, (E080144), of a previously licensed Swe-Dish XC90-66K, 0.90x0.66 Meter elliptical earth station, indicates that the 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 Ku-Band is -14 dBW/4 kHz. This antenna will operate at a maximum transmit power density of -19 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.