

ANTENNA STATEMENT

January 11, 2005

Federal Communications Commission
The Portals
445 Twelfth Street, SW
Washington, DC 20554

RE: Intelsat LLC
C-Band Transmit/Receive Earth Station
Hagerstown, Maryland

Dear Sirs:

The antenna pattern contained in this application exceeds the CFR 25.209 sidelobe specification for the sidelobe envelope in the $\pm 1^\circ$ to 2.1° region by a maximum of 8.0 dB, at 6 GHz. Outside the main beam, the antenna meets the requirements of 25.209.

The maximum RF power density normally licensed by the Federal Communications Commission for smaller diameter antennas, utilizing C-band digital traffic, is -2.7 dBW/4 kHz. This license application is being filed by Intelsat LLC ("Intelsat") to operate with a RF transmit power density of -12.0 dBW/4 kHz.

A review of the antenna pattern envelope for the Channel Master 1.8 meter antenna (included with Exhibit F) indicated that the antenna exceeds the CFR 25.209 sidelobe specifications by 8.0 dB at 6 GHz. A comparison of the FCC's maximum authorized RF transmit power density (-2.7 dBW/4 kHz) and the actual transmit power density of the proposed earth station (-12.0 dBW/4 kHz), indicates that the applied for transmit power density is 9.3 dB lower than the specified power restrictions. When the Channel Master 1.8 meter antenna pattern envelope is considered, the applied for transmit power density is still 1.3 dB, lower than the maximum RF power density normally licensed by the FCC. This reduced RF transmit power will result in acceptable performance for the antenna, with respect to adjacent satellite interference.

Intelsat plans to operate this antenna with the Intelsat Americas 8 (89.0 W.L.) satellite. The low transmit power should allow for operations without causing interference into adjacent satellites.

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Intelsat agrees to accept any adjacent satellite interference in the 4 GHz receive band as a result of the performance of the antenna. Intelsat understands that adjacent satellite interference protection applies only to the extent of the criteria set forth in §25.209.

If the use of this antenna should cause interference into other systems, Intelsat will terminate transmissions immediately upon notice from the FCC.

Sincerely,

Omer Bashir
Principal Engineer
Telecomm Policy and Regulations
Intelsat LLC