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**VIA HAND DELIVERY**

April 27, 2004

Marlene H. Dortch  
Federal Communications Commission  
Office of the Secretary  
445 12th Street, SW  
Washington, DC 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Received

APR 30 2004

Policy Branch  
International Bureau

**Re: Star One S.A. Petition for Declaratory Ruling To Add the Star One C1  
Satellite at 65° W.L. to the Permitted Space Station List;  
Call Sign S2611, File No. SAT-PPL-20031230-00367**

Dear Ms. Dortch:

Star One S.A. ("Star One") hereby submits the following additional information for association with the above-referenced petition for declaratory ruling.<sup>1</sup> Star One seeks to clarify the certain technical information regarding the Star One C1 satellite's Ku-band frequency usage and certain emission designators.

The Technical Appendix submitted with the Star One C1 petition for declaratory ruling inadvertently failed to include emission designators for requested FM/TV transmissions, as well as certain technical information regarding the satellite's Ku-band beacon signals. Attachments 1 and 2 hereto provide updated emission designators and Ku-band beacon information for association with the Technical Appendix.

Star One also seeks to clarify the Ku-band frequencies to be used by the Star One C1 satellite for service to the United States. In addition to Ku-band beacons at 11701 MHz and 12199 MHz, the Star One C1 satellite can provide service to the United States in the 14184-14256 MHz and 14424-14496 MHz (uplink) and 11884-11956 MHz and 12124-12196 MHz (downlink) bands. Although this information can be discerned by reference to the frequency tables and beam coverage maps in the Technical Appendix, Star One wishes to confirm separately the Ku-band frequency requirements of the Star One C1 satellite.

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<sup>1</sup> Star One S.A. Petition for Declaratory Ruling To Add the Star One C1 Satellite at 65° W.L. to the Permitted Space Station List, File No. SAT-PPL-20031230-00367 (rel. Dec. 30, 2003).

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Any questions regarding this matter may be directed to the undersigned.

Respectfully submitted,



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Carlos M. Nalda  
*Counsel for Star One S.A.*

cc: Fern Jarmulnek  
Robert Nelson  
Jennifer Gilsean  
Cornell Brooks  
Kal Krautkramer

## Attachment 1

### Corrected Emission Designators

#### Section 1.1.2

Table 8 – Emissions Designators

Signal	Emission Designator
Command	820KF2D
Telemetry / Ranging	200KG2D
Ku-band Communications Beacon	25K0N0N
FM/TV (Single carrier)	25M0F3F
FM/TV (Dual carrier)	17M5F3F
48 Mbps Digital (QPSK, R7/8)	36M0G7W
34 Mbps Digital (8PSK, R5/6)	17M9G7W
8448 kbps Digital (8PSK, R2/3)	5M50G7W
2048 kbps Digital (QPSK, R3/4)	1M64G7W
512 kbps Digital (QPSK, R1/2)	614KG7W
4.8 kbps Digital (QPSK, R1/2)	5K80G7W

## Attachment 2

### Ku-Band Beacons

#### k. Ku-Band Beacons

Two Ku-band downlink communications beacons will be continuously transmitted by the satellite and used by earth stations operators as a calibrated reference to compensate for rain attenuation and to adjust antenna pointing. These communication beacons will be transmitted via two global horns, one for each polarization, and will be available anywhere within the satellite's Ku-band coverage areas. The Ku-band beacon link budget is given in Table 18.

**Table 18 - Ku-Band Beacon Link Budget**

Parameter	Beacon
Frequency / Polarization	11701 MHz / H Pol 12199 MHz / V Pol
Modulation	Unmodulated
Maximum Satellite EIRP	9 dBW
Minimum Satellite EIRP	6 dBW
Downlink Rain Attenuation	-4.5 dB
Pointing, Atmospheric and Pol. Losses	-0.3 dB
Free Space Losses	-205.7 dB
Ground Station G/T	29.40 dB/K
Ground Station G/T Degradation	-2.6 dB
C/No	50.9 dBHz
Maximum PFD	-153.1 dBW/m <sup>2</sup> /4 kHz

[Former section 3.k is redesignated 3.l]