

ORIGINAL

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LORAL

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RECEIVED

SEP 20 2001

John P. Stern
Deputy General Counsel

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

September 20, 2001

Received

OCT 5 2001

Office of the Secretary
Federal Communications Commission

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
445 12th Street SW, TW-A325
Washington, DC 20554

Re: Ex Parte Presentation in File Nos. SAT-MOD-19991102-00106; SAT-MOD-19991101-00107; SAT-MOD-19991101-00108; SAT-MOD-19991101-00109

Dear Ms. Salas:

Laurence Atlas and I (Loral Space & Communications Ltd.), Robert Hedinger, R. Victor Bernstein, Richard Currier (Loral Skynet), and Phil Verveer (Willkie Farr & Gallagher) met yesterday with Thomas Tycz, Fern Jarmulnek, John Martin and Jennifer Gilson of the International Bureau to discuss and review certain technical details contained in the above referenced pending requests for modifications to certain Loral satellite authorizations and to discuss the status of the requests.

All of these modification requests are "permit but disclose" proceedings. Pursuant to section 1.1206(b) of the Commission's *ex parte* rules, I am submitting an original and 2 copies of this cover letter with the attached summary of certain technical details of the modification requests, which was distributed and discussed at yesterday's meeting. This attached summary contains no new data; all the information presented in the summary is also contained in the pending modification requests filed at the Commission on November 2, 1999.

Please contact me at (703) 414-1060 if you have any questions concerning this matter.

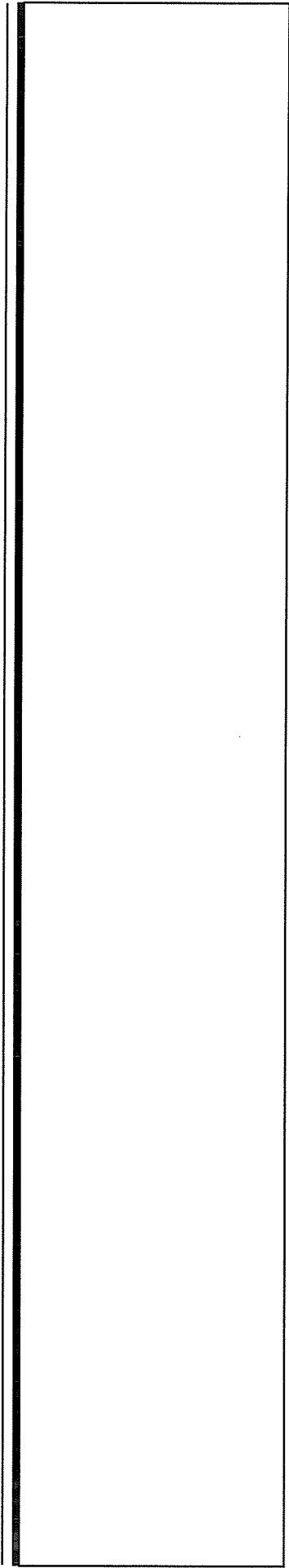
Sincerely,



John P. Stern

Attachment

No. of Copies rec'd 0+2
List A B C D E



**Review of Telstar 8:
Loral's First Ka-band Satellite**



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Loral Skynet Proprietary

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Telstar 8 Efficiently Uses the Ka-band Spectrum

- **Operates in 500 MHz of the Ka-band spectrum**
 - 19.7 – 20.2 GHz downlink
 - 29.5 – 30.0 GHz uplink
- **Four times frequency re-use: 1584 MHz total used bandwidth**
- **Twenty-four 66 MHz (usable bandwidth) uplink spot beams fully cover CONUS**
- **Four 396 MHz (usable bandwidth) downlink spot beams cover LA-San Francisco, Denver, Chicago, and NY-Washington areas**
- **Six uplink spot beams connect to one downlink spot beam**

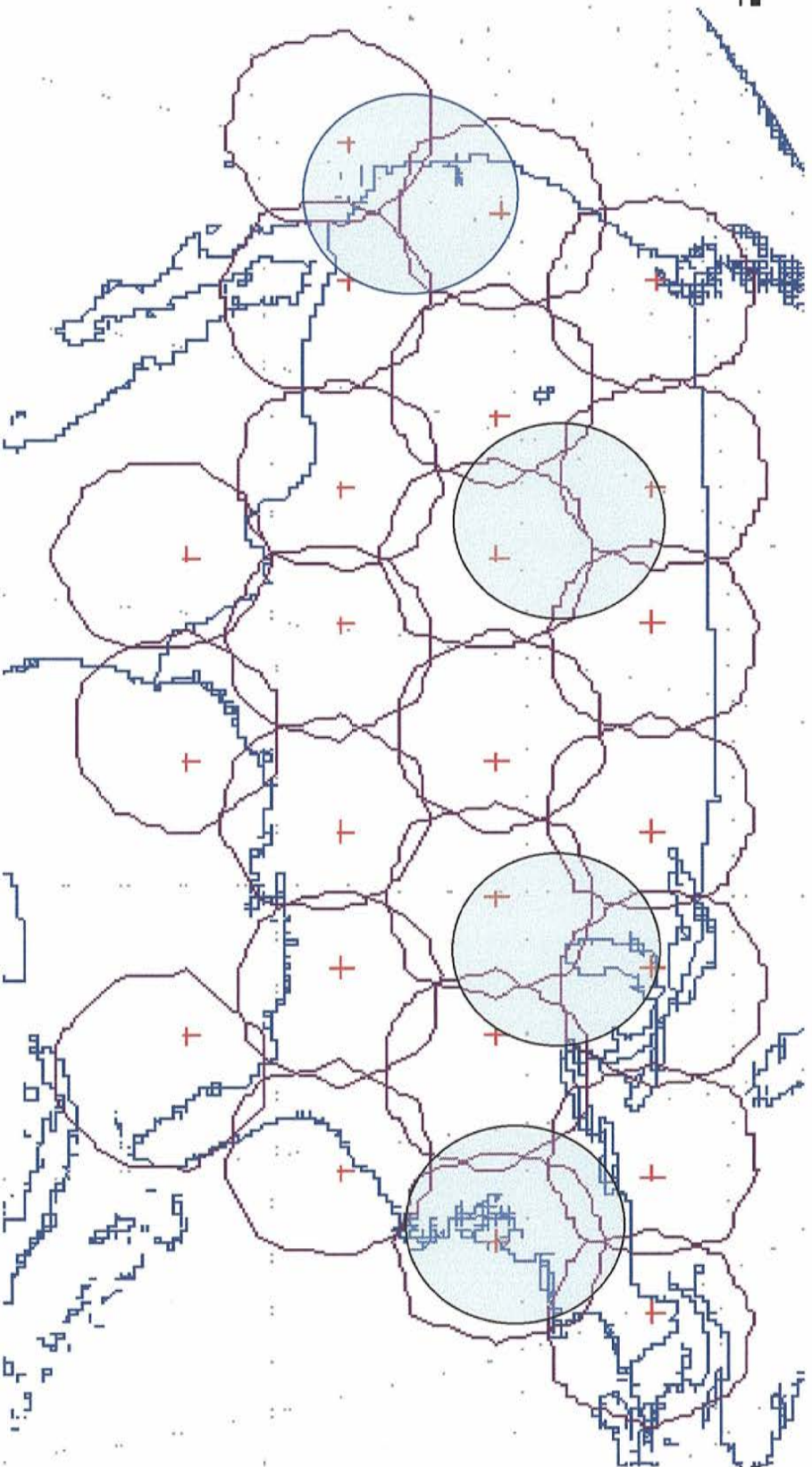


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Telstar 8 Uplink and Downlink Ka-band Spot Beams

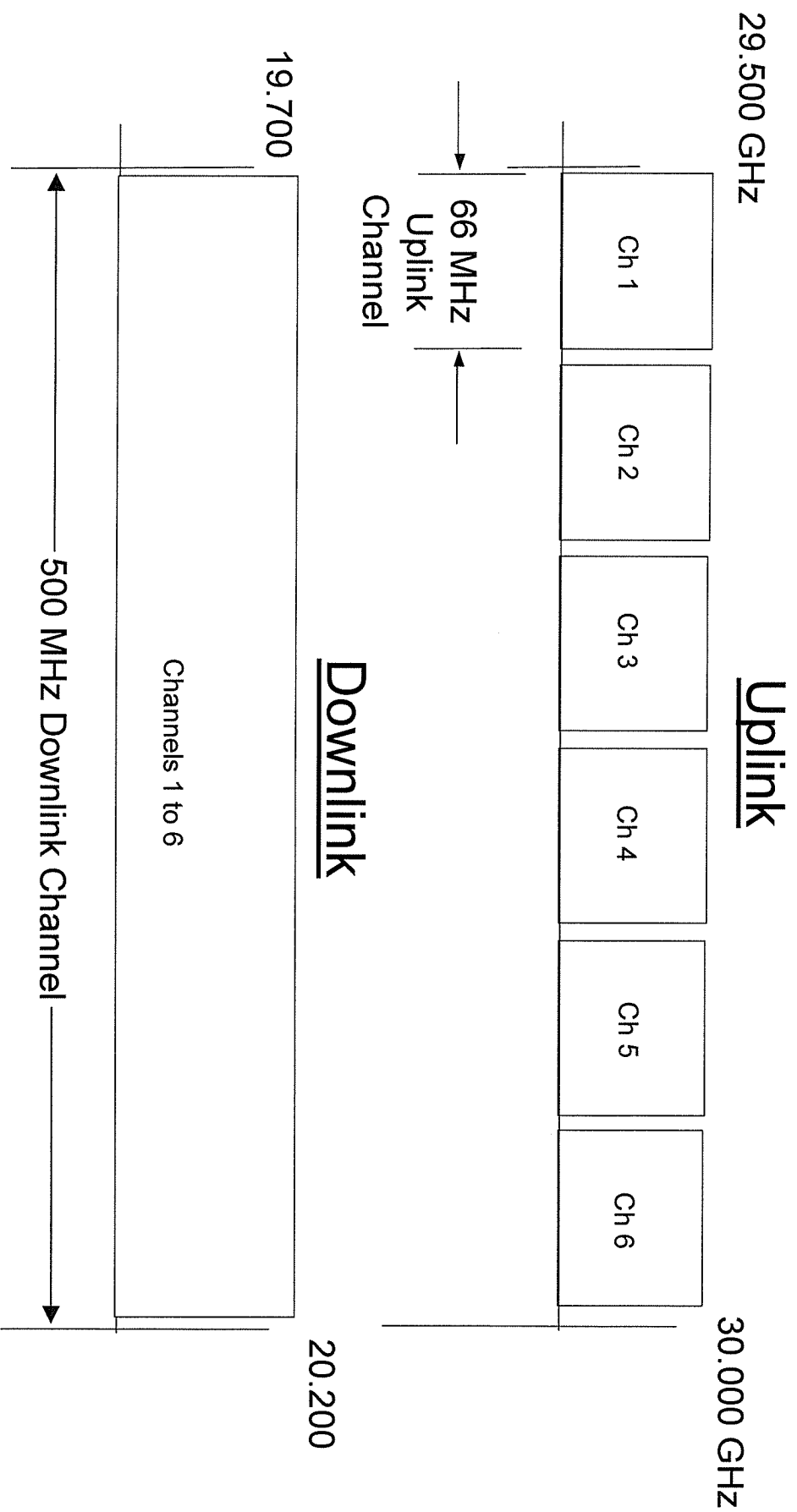


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Telstar 8 Ka-Band Frequency Plan



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Telstar 8 Payload Capabilities

- **NAFTA Coverage at Ku-Band**
 - 24 Transponders (each at 36 MHz) (H- & V-pol)
 - 130-W Ku-band linearized TWTTAs
 - Coverage emphasized over SE USA by +2 dB
 - Interconnectivity between NAFTA and South America
- **NAFTA Coverage at C-Band**
 - 22 Transponders (20 at 36 MHz and 2 at 72 MHz)
 - Twenty 37-W and two 100-W C-band linearized TWTTAs
 - Interconnectivity between NAFTA and South America for 72 MHz transponders
- **Interconnectivity and Broadcast Mode**
 - Between Ku-band South America and NAFTA beams for up to two transponders
 - Between C-band South America and NAFTA beams for two 72-MHz transponders



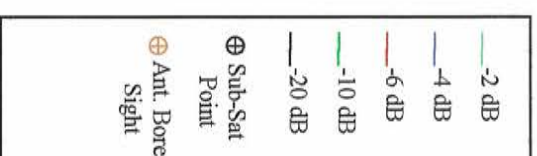
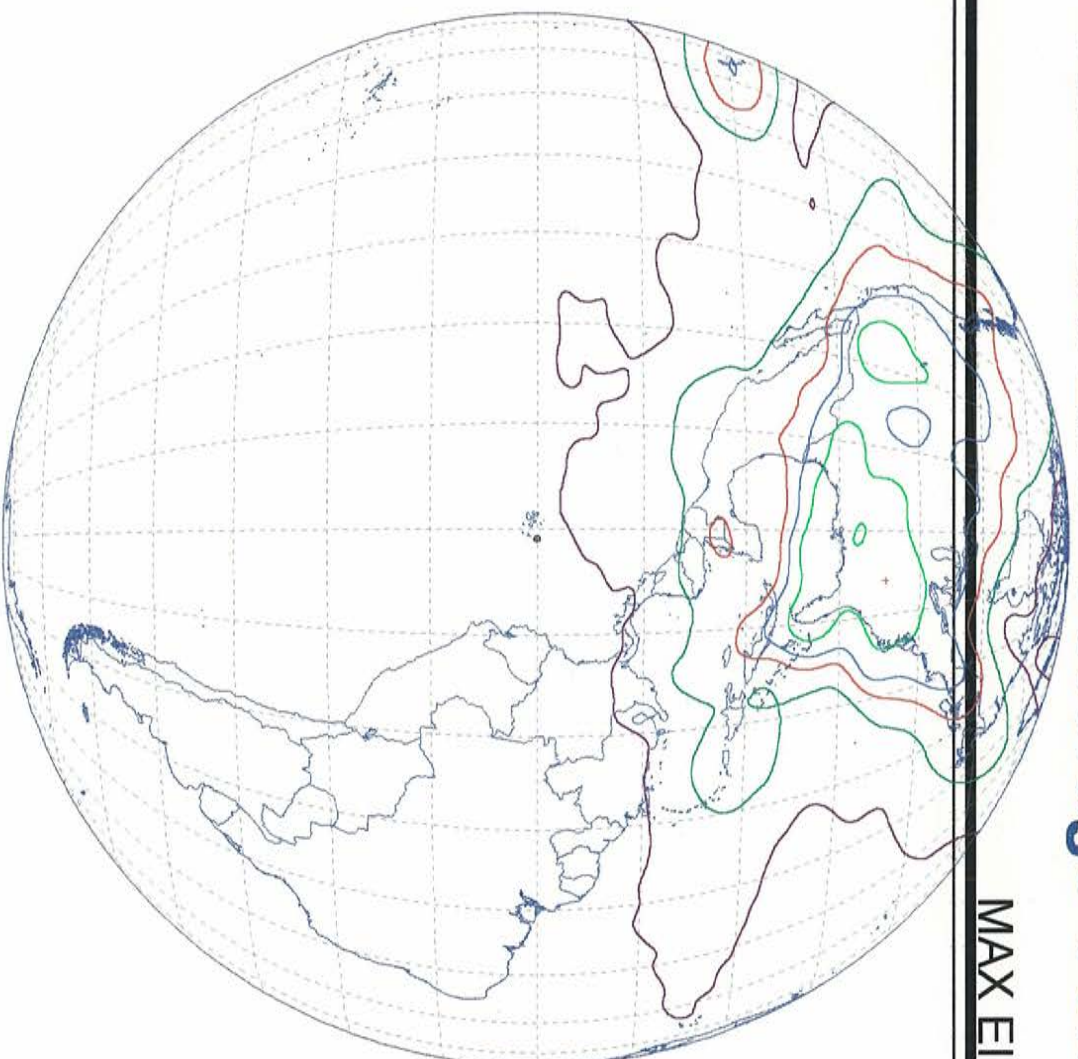
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NAFTA - Ku-Band EIRP Coverage Contours

MAX EIRP = 51.4 dBW



Telstar 8 - Payload Capabilities (cont.)

- **South America Coverage at C- and Ku- Bands**
 - Ku-band coverage over most of South America
 - Ku-band emphasized over east coast of Brazil and Argentina
 - 12 Ku-band transponders (each at 36 MHz)
 - 130-W Ku-band linearized TWTA's
 - C-band coverage over most of South America
 - 6 C-band transponders (each at 72 MHz)
 - 100-W C-band linearized TWTA's with -3 dB OBO



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South America - Ku-Band EIRP Coverage Contours

MAX EIRP = 51.6 dBW

