

Technical Summary
Summary of Extended Ku-band Frequencies Information
For Coordination with NTIA

March 14, 2007

Applicant: Loral Skynet Network Services

Location: Mt. Jackson, VA

File No.: SES-MFS-20070306-00299

Call Sign: E060351

Purpose: Modification filed to add extended Ku-band frequency to communicate with Telstar 14 /Estrela Do Sul satellite as point of communication, and to add new emission designators.

Latitude 38 43 42 N

Longitude 78 39 28. W

Transmit frequency 13800-14500 MHz

Receive frequency 11700-12200 MHz

Polarization Horizontal and Vertical

Antenna Size: 4.6m

Gain: Tx: 54.8 dBi at 14.25 GHz

Rx: 53.3 dBi at 11.95 GHz

<u>Emissions</u>	<u>Maximum E.I.R.P.</u>	<u>Maximum E.I.R.P. Density</u>	<u>Frequency</u>
1M76G7W	57.1	35.1	13800-14500 (MHz)

Modulations

1560 kbps QPSK FEC TPC .5333 SCPC

Satellite: Telstar 14/Estrela do sul

Orbital Location: 63 degrees W.L.

Satellite Arc (E/W): 7.0 degrees to 148 degrees

Elevation Angle (E/W): 6 degrees to 6 degrees

Azimuth (E/W) 259.3 degrees to 139.3 degrees

