

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-STA-20070306-00301

Call Sign: E060351

Purpose: Loral Skynet Network Services, Inc. (LSNSI) herein requests a grant of Special Temporary Authority (STA) for 30 days, from March 15, 2006 through April 15, 2007, to add extended Ku-band frequencies to its existing 4.6 meter earth station located in Mt. Jackson, Virginia (call sign E060351) to provide communication services to commercial fishing vessels operating in international waters in the North Atlantic Ocean Region. Telstar 14/EDS is the only commercial satellite that can offer broadband services to maritime vessels in the North Atlantic Ocean Region which is an area otherwise not covered by KU-Band FSS satellites.

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/Estrella 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