

**Globalstar USA, LLC**  
**Summary of Extended C-band Frequencies Information**  
**For Coordination with NTIA**

**June 24, 2005**

**Applicant:** Globalstar USA, LLC

**Location:** 461 S. Milpitas Blvd.  
Milpitas, CA 95035

**File No.:** SES-STA-20050620-00784

**Call Sign:** E050097

**Purpose:** Globalstar USA, LLC ('Globalstar') is applying for Special Temporary Authority for a period of 180 days from June 18, 2005 until December 14, 2005, to operate four earth station antennas from its proposed gateway location in Sebring, Florida, to communicate with the Globalstar LLC Mobile Satellite Service ('MSS') satellite constellation. The earth station antennas are necessary for Globalstar to meet increased customer demand that cannot adequately be met using the earth stations at Globalstar's existing U.S. gateways, which are already operating at full capacity and which are at too great a distance from the areas of increased customer demand to provide reliable service.

**Latitude** 27 27 34.3 N  
**Longitude** 81 21 26.6 W

**Transmit frequency** 5091-5250 MHz  
**Receive frequency** 6875-7055 MHz

**Polarization** RHCP & LHCP

**Antenna Size:** 5.5m

**Gain:** Tx: 47.6 dBi at 5.150 GHz  
RX: 50.2 dBi at 6.975 GHz

| <u>Emissions</u>          | <u>Maximum E.I.R.P.</u> | <u>Maximum E.I.R.P. Density</u> | <u>Frequency</u> | <u>Modulations</u>      |
|---------------------------|-------------------------|---------------------------------|------------------|-------------------------|
| 1M23XXX                   | 59                      | 34.1                            | 5096-5250 (MHz)  | White noise for testing |
| 1M23XXX                   |                         |                                 | 6900-7055 (MHz)  | White noise for testing |
| NON                       | 59                      | 59.0                            | 5096-5250 (MHz)  | Unmodulated CW testing  |
| NON                       |                         |                                 | 6900-7055 (MHz)  | Unmodulated CW testing  |
| 1M23G7W                   | 55                      | 30.1                            | 5096-5250 (MHz)  | CDMA/voice, data        |
| 1M23G7W                   |                         |                                 | 6900-7055 (MHz)  | CDMA/voice, data        |
| 1M23G2W                   | 55                      | 30.1                            | 5096-5250 (MHz)  | CDMA/single-car. AMSS   |
| 1M23G7W                   |                         |                                 | 6900-7055 (MHz)  | CDMA/single-car. AMSS   |
| 2M50G2D<br>car. Telemetry |                         |                                 | 6900-7055 (MHz)  | CDMA/single-            |

**Satellite:** S2115 (U.S.-licensed Globalstar Big LEO MSS system)  
**Orbital Location:** NGSO (1414 km altitude, 52 degree inclination)  
**Elevation Angle (E/W):** 5 degrees to 90 degrees  
**Azimuth (E/W):** 0 degrees to 360 degrees

