

Sebring, FL Earth Station

Globalstar USA, LLC (“GUSA”) is seeking Special Temporary Authority to operate the Globalstar gateway earth station at Sebring, Florida, with the following parameters:

File No.: SES-MFS-20091221-01615

Call Sign: E050097 (SBRG-1)

STA term: October 18, 2010, to April 16, 2011

Location: Sebring, Florida

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: 5.5 m

Gain: Tx: 47.6 dBi at 5.150 GHz
Rx: 50.2 dBi at 6.975 GHz

Max. antenna height: 27 feet above ground level

Necessary Bandwidth: Transmit bandwidth is 159 MHz
Receive bandwidth is 180 MHz
Maximum carrier bandwidth is 1.23 MHz

Carrier: See table below

<u>Frequency Band (MHz)</u>	<u>T/R Mode & Polarization</u>	<u>Emission Designator</u>	<u>Maximum EIRP (dBW)</u>	<u>Maximum EIRP Density (dBW/4kHz)</u>	<u>Modulation</u>
5091 - 5092	Tx- LHCP	76K0F2D	68	55.2	FM subcarrier on telecommand carrier
6875.95 – 6877.15	Rx – LHCP	7K00G1D			Telemetry carrier
5096 – 5250	Tx – L/RHCP	1M23XXX	59	34.1	White noise modulated carrier for testing
6900 – 7055	Rx – L/RHCP	1M23XXX			White noise modulated carrier for testing
5096 – 5250	Tx – L/RHCP	N0N	59	59	Unmodulated CW for testing

6900 – 7055	Rx – L/RHCP	N0N			Unmodulated CW for testing
5096 – 5250	Tx – L/RHCP	1M23G7W	55	30	CDMA/voice and data
6900 – 7055	Rx – L/RHCP	1M23G7W			CDMA/voice and data
5096 – 5250	Tx – L/RHCP	1M23G2W	55	30	CDMA/for single-carrier AMSS.
6900 – 7055	Rx – L/RHCP	1M23G7W			CDMA/for single-carrier AMSS
6900 – 7055	Rx – L/RHCP	2M50G2D			Direct sequence CDMA for single-carrier telemetry data
5096 – 5250	Tx – L/RHCP	2M46G7W	55	27.1	CDMA/voice and data
6900 – 7055	Rx – L/RHCP	2M46G7W			CDMA/voice and data
5096 – 5250	Tx – L/RHCP	2M46G2W	55	27.1	CDMA/for single-carrier AMSS.
6900 – 7055	Rx – L/RHCP	2M46G7W			CDMA/for single-carrier AMSS
5091.38 – 5091.62	Tx- LHCP	40K0G2D	68	58	Telecommand carrier
6875.9 – 6879.1	Rx – LHCP	70K0G7D			Telemetry carrier

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

Satellite: HIBLEO-X GLOBALSTAR 2.0 (Pending France-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

NOTE: The telecommand / telemetry carrier with designator 40K0G2D/70K0G7D are for GLOBALSTAR 2.0 satellites while the telecommand / telemetry carrier with designator 76K0F2D/7K00G1D are for current Globalstar satellites (Call Sign S2115).

Information on MLS Sites

For the Sebring, Florida Globalstar gateway site, there are three potential MLS sites, i.e., Category III airports, within the 213 nautical mile coordination distance. The Sebring site is located at 27-27-35 N, 81-21-28 W. The airports are:

JAX	Jacksonville International Airport, approximately 182 nautical miles from Sebring
TPA	Tampa International Airport, approximately 70 nautical miles away
MCO	Orlando International Airport, approximately 58 nautical miles away

These sites fall outside the 39.8 nautical mile maximum trigger distance for MLS/MSS coordination. In addition, based on a directory used for MLS coordination purposes, and to the best of its knowledge, GUSA believes that MLS is not active at any of those sites and will not be active during the requested 180-day STA period.