

E050100 SES-STA-20110412-00448 IE2011001081  
GUSA Licensee LLC

Approved by OMB  
3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
STA Request for Sebring antenna (SBRG-4) with GLOBALSTAR 2.0 - Extension for STA

I. Applicant

Name:	GUSA Licensee LLC	Phone Number:	408-933-4525
DBA Name:		Fax Number:	408-933-4960
Street:	461 S. Milpitas Boulevard	E-Mail:	tony.navarra@globalstar.com
City:	Milpitas	State:	CA
Country:	USA	Zipcode:	95035
Attention:	Mr Anthony J Navarra		

60 days 'extension with conditions'



File# SES-STA-20110412-00448  
Call Sign E050100 Grant Date 04/19/2011  
(or other identifier)  
Term Dates  
From 04/24/2010 To 06/23/2011  
Approved: [Signature]


Attachment to Grant  
GUSA Licensee LLC

IBFS File Nos. SES-STA-20110412-00440 (E000342), SES-STA-20110412-00441 (E000343), SES-STA-20110412-00442 (E000344), SES-STA-20110412-00443 (E000345), SES-STA-20110412-00446 (E050098), SES-STA-20110412-00447 (E050099), SES-STA-20110412-00448 (E050100)

The referenced requests for extension of special temporary authority ARE GRANTED. GUSA Licensee LLC is authorized to operate fixed earth stations in Clifton, Texas (Call Signs E000342, E000343, E000344, and E000345) in the 5091-5250 MHz (Earth-to-space) and 6875-7055 MHz (space-to-Earth) frequency bands for testing and telecommand, telemetry, and control communications with HIBLEO-X satellites for an additional period of 60 days ending June 22, 2011, and to operate other fixed earth stations in Sebring, Florida (Call Signs E050098, E050099, and E050100) in the 5091-5250 MHz (Earth-to-space) and 6875-7055 MHz (space-to-Earth) frequency bands for testing and telecommand, telemetry, and control communications with HIBLEO-X satellites for an additional period ending June 22, 2011 in accordance with the technical parameters specified in the STA applications, except that the EIRP spectral density of telecommand transmissions shall not exceed 55.2 dBW/4kHz. The request for authority to operate with power spectral density higher than 55.2 dBW/4kHz IS DEFERRED for further consideration. These temporary authorizations are subject to the following further conditions.

1. All operations pursuant to this authorization shall be on an unprotected and non-harmful interference basis. Operations shall not cause harmful interference to, and GUSA Licensee LLC shall not claim protection from interference caused by, any other lawfully operating station. In the event that harmful interference results, operations shall cease immediately upon notification of such interference, and GUSA Licensee LLC shall immediately inform the Commission in writing of such event.
2. No authority for commercial operation is granted herein.

*60 days extension with conditions*

 <b>GRANTED</b> International Bureau	File # <u>SES-STA-20110412-00448</u>
	Call Sign <u>E050100</u> Grant Date <u>04/19/2011</u> (or other identifier)
	From <u>04/24/2010</u> Term Dates To <u>06/23/2011</u>
	Approved: <u>Paul E. Blas</u>

April 12, 2011

Samir C. Jain

Ms. Mindel De La Torre  
Chief, International Bureau  
Federal Communications Commission  
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Washington, DC 20554

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samir.jain@wilmerhale.com

Re: **Request for Extension of Special Temporary Authority**

GUSA Licensee LLC

File Nos. SAT-AMD-20091221-00147; SES-MFS-20091221-01615;  
SES-MFS-20091221-01616; SES-MFS-20091221-01617;  
SES-MFS-20091221-01618; SES-AFS-20091221-01607;  
SES-MFS-20091221-01608; SES-MFS-20091221-01609;  
SES-MFS-20091221-01610; SES-MFS-20091221-01611;  
SES-MFS-20091221-01601

ITU Designation: HIBLEO-X

Dear Ms. De La Torre:

GUSA Licensee LLC (“Globalstar”) hereby requests a 60-day extension of previously granted Special Temporary Authority<sup>1</sup> (“STA”) for ten of its Commission-licensed antennas to communicate with its launched second-generation satellites for purposes of telemetry and control pending grant of the necessary authorizations and registration of its satellites by the government of France, as required by the Commission’s recent *Order*.<sup>2</sup> Globalstar requests expedited treatment of this extension request because its existing STA for these earth stations expires between April 17 and April 23, 2011, and Globalstar requires the continued ability to communicate with its satellites from these antennas.<sup>3</sup>

<sup>1</sup> As permitted under 47 C.F.R. § 25.120. The previously granted STA requests were: SES-STA-20110225-00214 (SBRG-1); SES-STA-20110225-00215 (SBRG-2); SES-STA-20110225-00216 (SBRG-3); SES-STA-20110225-00217 (SBRG-4); SES-STA-20110225-00207 (CLFN-1); SES-STA-20110225-00208 (CLFN-2); SES-STA-20110225-00209 (CLFN-3); SES-STA-20110225-00210 (CLFN-4); SES-STA-20110225-00213 (CLFN-5); SES-STA-20110225-00211 (CLFN-IOT). Technical exhibits for these antennas are attached to the instant request.

<sup>2</sup> See *Order, Globalstar Licensee LLC, Application for Modification of Non-geostationary Mobile Satellite Service Space Station License, GUSA Licensee LLC, Applications For Modification Of Mobile Satellite, Service Earth Station Licenses*, 26 FCC Rcd 3948, 3962 ¶ 35 (IB, rel. Mar. 18, 2011) (“*Order*”).

<sup>3</sup> Details about individual STA terms are contained in the attached technical exhibits.

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As described in the *Order*, Globalstar has embarked on a transition to its second-generation satellite constellation.<sup>4</sup> This transition involves the launch of 24 new satellites, with the first batch of six satellites launched on October 19, 2010, and preparations for subsequent launches well under way.<sup>5</sup>

The Commission conditioned the grant of Globalstar's application, which includes the authority for its antennas to communicate with the second-generation satellites, upon Globalstar's receipt of certain French authorizations and international registration of Globalstar's satellites by the government of France.<sup>6</sup> Globalstar is in the midst of the authorization process in France, which it hopes to complete as expeditiously as possible. However, that process will not be complete by the time Globalstar's current STA expires. In the meantime, Globalstar must be able to continue effective control and monitoring of its launched satellites and, accordingly, requests authority to do so.

The public interest justifications for granting this authority remain substantially the same as those provided in the previous requests. In short, the public interest will be served by the grant of these STA requests because they will ensure effective control center communications with launched satellites, and these operations are necessary to ensure the provision of high quality service to U.S. customers.

Please do not hesitate to contact me with any questions.

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<sup>4</sup> *Id.* at 3590-591 ¶ 5.

<sup>5</sup> *See generally* Globalstar, *Press Releases*, <http://www.globalstar.com/en/index.php?cid=7010>.

<sup>6</sup> *See Order*, 26 FCC Rcd at 3962 ¶ 35 (“The authority to operate granted in connection with these earth station applications shall become effective upon grant by France of an authorization for space operations under the June 3, 2008 French law n° 2008-518 relating to space operations, and only for communications with space stations for which France grants authority and undertakes to register under the United Nations Registration Convention.”)

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Respectfully submitted,

*/s/ Samir Jain*

Samir Jain  
*Counsel to GUSA Licensee LLC*

Encl.

Exhibit 2: Earth Station Technical Information

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

File Nos. / Call Signs:       SES-MFS-20091221-01615 / E050097 (SBRG-1)  
                                      SES-MFS-20091221-01616 / E050098 (SBRG-2)  
                                      SES-MFS-20091221-01617 / E050099 (SBRG-3)  
                                      SES-MFS-20091221-01618 / E050100 (SBRG-4)

STA term:                       60 days, beginning on:  
                                      April 18, 2011 for SES-MFS-20091221-01615 / E050097 (SBRG-1)  
                                      April 24, 2011 for SES-MFS-20091221-01616 / E050098 (SBRG-2)  
                                      April 24, 2011 for SES-MFS-20091221-01617 / E050099 (SBRG-3)  
                                      April 24, 2011 for SES-MFS-20091221-01618 / E050100 (SBRG-4) ✓

Location:                       Sebring, Florida

Latitude:                       27°27’35” N  
                                      (27°27’34.3” N to 27°27’35.6” N for SBRG-1 through SBRG-4)

Longitude:                      81°21’28” W  
                                      (81°21’26.6 W to 81°21’28.4” W for SBRG-1 through SBRG-4)

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 2.5 MHz

Carrier:                        See table below

<u>Frequency Band (MHz)</u>	<u>T/R Mode &amp; 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	30.1	CDMA/voice and data
6900 – 7055	Rx – L/RHCP	1M23G7W			CDMA/voice and data
5096 – 5250	Tx – L/RHCP	1M23G2W	55	30.1	CDMA/for single-carrier AMSS.
6900 – 7055	Rx – L/RHCP	1M23G2W			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	2M46G2W			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

Maximum EIRP: 68 dBW (for all carriers combined)

Maximum EIRP Density: 59 dBW/MHz

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 (French-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 transmit co-ordination 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.

**2. Contact**

<b>Name:</b>	Mr. Paul A. Monte	<b>Phone Number:</b>	408-933-4521
<b>Company:</b>		<b>Fax Number:</b>	408-933-4960
<b>Street:</b>	461 S. Milpitas Boulevard	<b>E-Mail:</b>	paul.monte@globalstar.com
<b>City:</b>	Milpitas	<b>State:</b>	CA
<b>Country:</b>	USA	<b>Zipcode:</b>	95035
<b>Attention:</b>	Mr. Paul A. Monte	<b>Relationship:</b>	Same

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number SESMFS2009122101618 or Submission ID

4a. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity  Noncommercial educational licensee

Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant

Change Station Location

Other

6. Requested Use Prior Date

04/24/2011

7. City Sebring

8. Latitude  
(dd mm ss.s h) 27 27 35.6 N

9. State FL	10. Longitude (dd mm ss.s h) 81 21 26.8 W
11. Please supply any need attachments. Attachment 1: Exh. 1 – Cover Attachment 2: Exh. 2 – Tech Info Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;">GUSA Licensee LLC is applying for an extension of its special temporary authority to operate the TCU earth station antenna at Sebring, FL to support the launch campaign of Globalstar's second-generation constellation. This antenna will be used to communicate with satellites in Globalstar's first-generation constellation (FCC call sign S2115) and</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No	
14. Name of Person Signing Anthony J Navarra	15. Title of Person Signing President
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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## **12. Description**

GNUA Licensee LLC is applying for an extension of its special temporary authority to operate the TCU earth station antenna at Sebring, FL to support the launch campaign of Globalstar's second-generation constellation. This antenna will be used to communicate with satellites in Globalstar's first-generation constellation (FCC call sign S2115) and in its French-licensed second-generation constellation. Globalstar has filed four separate applications for extension of special temporary authority -- one for each antenna at the Sebring, FL location. Globalstar requests that they be processed simultaneously. Multiple earth station antennas provide opportunities for telemetry and control of multiple satellites in view simultaneously at a ground location, which is a common occurrence for a LEO satellite constellation.