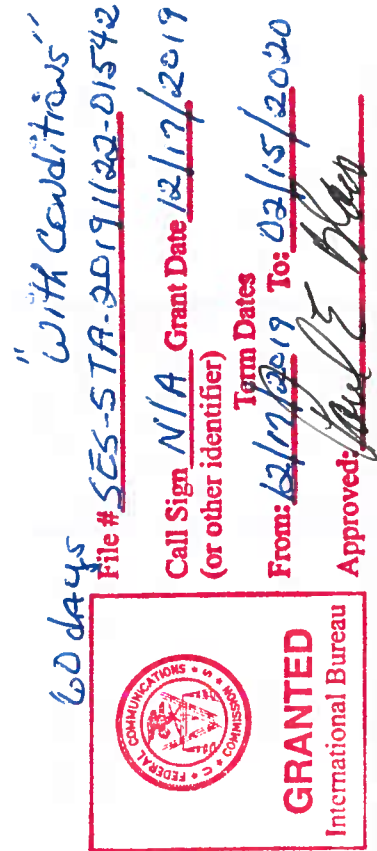


APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Clifton, TX STA application

1. Applicant

Name:	GUSA Licensee LLC	Phone Number:	985-335-1503
DBA Name:		Fax Number:	985-335-1703
Street:	1351 Holiday Square Blvd.	E-Mail:	Barbee.Ponder@Globalstar.com
City:	Covington	State:	LA
Country:	USA	Zipcode:	70433
Attention:	Mr L. Barbee Ponder IV		



2. Contact		Name: Wen Doong	Phone Number: 985-335-1675
Company: Globalstar, Inc.	Fax Number:		
Street: 1351 Holiday Square Blvd.	E-Mail: Wen.Doong@Globalstar.com		
City: Covington	State: LA		
Country: USA	Zipcode: 70433		
Attention:	Relationship: Engineer		
(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 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 11/27/2019			
7. City Clifton			
8. Latitude (dd mm ss.s h) 31 48 2.149 N			

9. State TX	10. Longitude (dd mm ss.s h) 97 36 44.37 W
11. Please supply any need attachments. Attachment 1: Cover letter	Attachment 2: Technical exhibit 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.)	GUSA Licensee LLC (together with its parent Globalstar, Inc., 'Globalstar') is applying for special temporary authority to test and validate a prototype of Globalstar's new, second-generation earth station antenna at its Clifton, TX gateway location. Globalstar plans to deploy a number of second-generation antennas at its U.S. gateway locations over
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.	Yes ☒ No ☐
14. Name of Person Signing L. Barbee Ponder IV	15. Title of Person Signing General Counsel and VP – Regulatory Affairs
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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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

12. Description

GUSA Licensee LLC (together with its parent Globalstar, Inc., 'Globalstar') is applying for special temporary authority to test and validate a prototype of Globalstar's new, second-generation earth station antenna at its Clifton, TX gateway location. Globalstar plans to deploy a number of second-generation antennas at its U.S. gateway locations over the next one to two years. During the requested 60-day STA period, Globalstar will validate this prototype antenna's satellite tracking capability, its telemetric commands to Globalstar's satellites, and its ability to carry operational traffic over Globalstar's MSS network. With respect to its RF characteristics, this antenna will be similar to Globalstar's existing, licensed earth station antennas in Clifton.

Applicant: GUSA Licensee LLC
Call Sign: No Call Sign
File No.: SES-STA-20191122-01542
Special Temporary Authority ("STA")



File # SES-STA-20191122-01542
Call Sign N/A Grant Date 12/17/2019
(or other identifier)
Term Dates
From: 12/17/2019 To: 02/15/2020
Approved: Paul E. [Signature]

GUSA Licensee LLC ("GUSA") is granted Special Temporary Authority for 60 days to operate its C-band fixed earth station in Clifton, TX with NGSO satellite system Globalstar Big LEO MSS, Call Sign S2115 and French licensed NGSO satellite system HIBLEO-X GLOBALSTAR 2.0 to conduct antenna verification testing on center frequencies 5091-5250 MHz (Earth-to-space) and 6875-7055 MHz (space-to-Earth) under the following conditions:

1. Operations under this authority are on a non-interference basis only.
2. Operations under this authority are on a non-protected basis only.
3. Operations shall comply with the emission designations, power, and frequency coordinated parameters.
4. GUSA shall, at all times, take all necessary measures to ensure that operation of this earth station does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR § 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
5. In the event of any harmful interference under this grant of special temporary authority GUSA must cease operations immediately upon notification of such interference, and must inform the Commission in writing, immediately of such an event.
6. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at GUSA's risk.
7. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future GUSA applications.

This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 CFR § 0.261, and is effective immediately.

LAWLER, METZGER, KEENEY & LOGAN, LLC

1717 K STREET, NW
SUITE 1075
WASHINGTON, D.C. 20006

STEPHEN J. BERMAN

PHONE (202) 777-7700
FACSIMILE (202) 777-7763

November 22, 2019

Via Electronic Filing

Tom Sullivan
Chief, International Bureau
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

**Re: Request for Special Temporary Authority – 60 Days (Clifton, TX)
GUSA Licensee LLC**

Dear Mr. Sullivan:

GUSA Licensee LLC (together with its parent Globalstar, Inc., “Globalstar”) hereby requests a 60-day Special Temporary Authority (“STA”) under Section 25.120 of the Commission’s rules in order to test and validate a prototype of Globalstar’s new, second-generation gateway earth station antenna in Clifton, TX.¹ Globalstar plans to deploy second-generation earth station antennas at its U.S. gateway locations over the next one to two years. During the requested 60-day STA period, Globalstar will validate the prototype antenna’s satellite tracking capability, its telemetric commands to Globalstar’s satellites, and its ability to carry operational traffic over Globalstar’s mobile satellite service (“MSS”) network.

Globalstar’s second-generation earth station antennas are 6-meter dishes with radomes, manufactured by Seatel. These antennas will yield significant operational benefits for Globalstar’s MSS network. They will be more efficient than Globalstar’s existing transceivers, requiring less power and only minimal maintenance. These second-generation facilities will also provide superior satellite-tracking capability, relying on state-of-the-art auto-track technology. These antennas will be similar to Globalstar’s current gateway systems from an RF perspective, and will comply with all applicable Commission regulations. Globalstar provides the relevant technical parameters of its prototype second-generation antenna at Exhibit 1 to this application.

The testing and validation process for Globalstar’s prototype second-generation gateway antenna will consist of three basic phases. In the first phase, Globalstar will test the antenna’s ability to receive communications from its MSS constellation and track its satellites. The antenna will not transmit to the satellites during this period. In the second phase, Globalstar’s prototype antenna will send telemetric commands to its MSS satellites. These telemetry

¹ 47 C.F.R. § 25.120.

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transmissions will have no effect on Globalstar's communications traffic. In the final phase, the prototype antenna will support Globalstar's MSS operations by transmitting actual communications traffic during scheduled test periods. Globalstar will verify the antenna's performance as it carries commercial communications traffic from its customers.

This testing and validation process should take approximately thirty to sixty days. Once validated, this prototype second-generation antenna will become fully operational at the Clifton gateway facility and carry an appropriate share of Globalstar's MSS traffic. Globalstar expects to decommission one of its existing, first-generation antennas in Clifton during the first half of 2020. Within the near future, Globalstar will submit an application for permanent authority for this new earth station antenna.

Globalstar respectfully requests expedited treatment of this STA request. The prototype antenna has been delivered to Globalstar's Clifton facility, and Globalstar hopes to initiate the testing and validation process as soon as possible.

Please do not hesitate to contact me with any questions.

Respectfully submitted,

/s/ Stephen J. Berman
Stephen J. Berman

cc: Paul Blais

Exhibit 2: Earth Station Technical Information for STA Request

GUSA Licensee LLC (together with its parent Globalstar, Inc., “Globalstar”) is seeking a 60-day Special Temporary Authority (“STA”) to operate a new antenna at the Globalstar gateway earth station at Clifton, Texas, with the following parameters:

Proposed STA term:	November 27, 2019 to January 26, 2020
Location:	Clifton, Texas
Latitude:	31° 48' 2.1492" N
Longitude:	97° 36' 44.3736" W
Transmit frequency:	5091 – 5250 MHz
Receive frequency:	6875 – 7055 MHz
Polarization:	RHCP & LHCP
Antenna Size:	6 meters
Gain:	Tx: 47.3 dBi at 5.150 GHz Rx: 49.4 dBi at 6.975 GHz
Max. antenna height:	28.5 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 & 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 Clifton, Texas, Globalstar gateway site, there are four potential MLS sites, i.e., Category III airports, within the 200 nautical mile coordination distance. The Clifton site is located at 31-48-06 N, 97-36-45 W. The airports are:

IAH	Houston – George Bush International Airport, approximately 163 nautical miles from Clifton
AUS	Austin – Bergstrom International Airport, approximately 91 nautical miles away
DFW	Dallas/Ft. Worth International Airport, approximately 71 nautical miles away
AFW	Ft. Worth Alliance Field, approximately 68 nautical miles away

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 60-day STA period.