Date & Time Filed: Dec 15 2020 4:12:00:166PM File Number: SES-MOD-INTR2020-03796

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM

FCC Use Only

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY

### APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Modification of Earth Station License E050100

1-8.1	Legal	Name	of A	pplicant
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Name: GUSA Licensee LLC **Phone Number:** 985–335–1503

**DBA Fax Number:** 985–335–1703

Name:

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

9–16. Name of Contact Representative

Name: Wen Doong Phone Number: 985–335–1675

Company: Globalstar, Inc. Fax Number:

Street: 1351 Holiday Square Boulevard E–Mail: Wen.Doong@Globalstar.com

City: Covington State: LA

Country: USA Zipcode: 70433–

Attention: Relationship: Engineer

#### **CLASSIFICATION OF FILING**

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

**b**3. Amendment to a Pending Application

**b**4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

**b**7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

**b** 13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

<ul> <li>17c. Is a fee submitted with this application</li> <li>If Yes, complete and attach FCC Form</li> <li>Governmental Entity</li> <li>Other(please explain):</li> </ul>	159. If No, indicate reason for fee exemption (se	e 47 C.F.R.Section 1.1114).
17d.  Fee Classification CGX – Fixed Satellite Testation	Transmit/Receive Earth	
<ul><li>18. If this filing is in reference to an existing station, enter:</li><li>(a) Call sign of station: E050100</li></ul>	<ul><li>19. If this filing is an amendment to a pending apmodification please enter only the file number:</li><li>(a) Date pending application was filed:</li></ul>	oplication enter both fields, if this filing is a  (b) File number:  SESMFS2010110801409

# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
<b>x</b> b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	■ Using U.S. licensed satellites
O Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER stacilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a	Public Switched Network  N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	pplicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 5091 Frequency Upper: 7055	(Please specify additional frequencies in an attachment)

## TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.	
a. Fixed Earth Station	
• b. Temporary–Fixed Earth Station	
c. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
26. TYPE OF EARTH STATION FACILITY:	
Transmit/Receive Transmit-Only Receive-Only N/A	
"For Space Station applications, select N/A."	

# PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Communication)
j — authorization to change Points of Communication (satellites & touther)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

### **ENVIRONMENTAL POLICY**

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Yes No Rad. Hazard Analysis

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	N/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	•	No	0	N/A

	<del></del>	
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes •	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	• Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	<b>⊚</b> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. 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.	<b>⊚</b> Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes  Non–US Licer	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issue coordinated or is in the process of coordinating the space station? US for GLOBALSTAR and Republic of France for the process of coordinates of the process of coordinates of the space station? US for GLOBALSTAR and Republic of France for the process of the process of coordinates of the process of the proces		

43. Description. (Summarize the nature of the application and the services to be provided). (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') hereby requests authority to modify Globalstar's feeder link earth station antenna operating in Sebring, Florida, under call sign E050100. Globalstar proposes to operate its second-generation earth station antenna under this call sign, and to use this antenna to transmit

Cover letter

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	O A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	<b>●</b> B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	<b>o</b> c

#### **CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

O Individual	
O Unincorporated Association	
O Partnership	
O Corporation	
O Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
45. Name of Person Signing L.Barbee Ponder IV	46. Title of Person Signing General Counsel and VP − Regulatory Affairs

# SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth S	tation Site					
E1: Site Identifier:	SBRG-4	E5. Call Sign:	E050100			
E2: Contact Name	Jeff Fricke	E6. Phone Number:	1-985-502-7656			
E3. Street:	Building #735	E7. City:	Sebring			
	185 Sabre Dr.	E8. County:	Highlands			
E4. State	FL	E9. Zip Code	33870			
E10. Area of Opera	tion:	Sebring				
E11. Latitude:	27 °27 '35.6 "N					
E12. Longitude:	81 °21 '26.8 "W					
E13. Lat/Lon Coord	dinates are:	<b>○</b> NAD-27	<b>●</b> NAD-83	O N/A		
E14. Site Elevation	(AMSL):	15.2 meters				
ĺ						

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>O</b> Yes	O No	● N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antengain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufameasurements?  E17. Is the facility operated by remote control? If YES, provide the location and telepoint.	facturer's qualification  Yes	O No	O N/A
	•	_	
			No
T10 X C	E10 D		
E18. Is frequency coordination required? If YES, attach a frequency coordination re	eport as E18 Response  Yes	0	No
E19. Is coordination with another country required? If YES, attach the name of the coordination contours as	country(ies) and plot of  Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) When have you attached a copy of a completed FCC Form 854 and/or the FAA's study reg the structure to aviation? E20 Response FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN APPLICATION.	garding the potential hazard of Yes	•	No
POINTS OF COMMUNICATION	'		
Satellite Name: OTHER   OTHER   If you selected OTHER, please enter the foll	lowing:		
E21. Common Name: GLOBALSTAR 2.0 E22. ITU	Name: HIBLEO-X		
E23. Orbit Location: NGSO E24. Cour	intry: France		

Satellite Name: GLOBALSTAR (S2115) | HIBLEO-4 | NGSO If you selected OTHER, please enter the following:

on:			E22. ITU Name:						
			E24. Country:						
OMMUNICATI	ION (Destination	Points)	.1						
er:									
ime:			E27. Coun	try:					
				•					
E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Mod			E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)			
SBR RFT4	1	Cobham SATCOM	SeaTel	6.0		47.5 dBi at 5.150			
SBR RFT4	1	Cobham SATCOM	SeaTel	6.0		51.2 dBi at 6.975			
	-1	•		<u>!</u>		1	-1		
E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	Height Ab	ove Input Po	wer at				
0.0/0.0	8.69	23.89	0.0	123.0		0.0	68.4		
				<u>.</u>					
	E28. Antenna Id  SBR RFT4  SBR RFT4  E33/34. Diameter Minor/Major (meters)	E28. Antenna Id E29. Quantity Id E29. Quantity Id I	E28. Antenna Id E29. Quantity E30. Manufacturer  SBR RFT4 1 Cobham SATCOM  SBR RFT4 1 Cobham SATCOM  E33/34. Cobham SATCOM  E35. Above Ground Level (meters) (meters)  0.0/0.0 8.69 23.89	E28. Antenna Id E29. Quantity E30. Manufacturer SATCOM SeaTel SATCOM SeaTel SATCOM SeaTel SATCOM E31. Mode SeaTel SATCOM SEATEL	E28. Antenna Id E29. Quantity E30. Manufacturer Size <me rft4<="" sbr="" td=""><td>E28. Antenna Id E29. Quantity Manufacturer E31. Model E32. Antenna Size<meters>  SBR RFT4</meters></td><td>  E28. Antenna Id</td></me>	E28. Antenna Id E29. Quantity Manufacturer E31. Model E32. Antenna Size <meters>  SBR RFT4</meters>	E28. Antenna Id		

Polarization(H,V,

L,R)

Designator

EIRP per Carrier | ERIP Density per

(dBW)

Carrier

(dBW/4kHz)

Frequency Bands T/R<br/>br>Mode

(MHz)

SBR RFT4	6900	7055	R	Left and Right Circular	1M23G7W	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete de	escription does not appear in	this box, please	go to the end of t	the form to view it in its
CDMA voice	and data	i					
SBR RFT4	6875.9 6879.1		R	Left Hand Circular	70K0G7D	0.0	0.0
Telemetry	Carrier						
SBR RFT4	6900	7055	R	Left and Right Circular	N0N	0.0	0.0
E50. Modulation entirety.)  Unmodulate				escription does not appear in	this box, please	go to the end of t	the form to view it in its

SBR RFT4	6875.95 6877.15	R	Left Hand Circular	7K00G1D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go	to the end of the form	to view it in its
Telemetry	Carrier					
SBR RFT4	6900 7055	R	Left and Right Circular	2M46G7W	0.0	0.0
Wideband C	DMA voice and	data				
SBR RFT4	5096 5250	Т	Left and Right Circular	1M23G7W	55.0	30.1
E50. Modulation entirety.)	· ·	ne complete description	on does not appear in	this box, please go	to the end of the form	to view it in its

SBR RFT4	6900	7055	R	Left and Right Circular	2M46G2W	0.0	0.0
E50. Modulation entirety.)	on and Service	s (If tl	ne complete de	escription does not appear i	n this box, please	go to the end of t	he form to view it in its
Wideband	CDMA for	single	e-carrier	AMSS			
SBR RFT4	5091.38 5091.62		Т	Left Hand Circular	40K0G2D	68.0	58.0
Telecomma	and Carrie	r					
SBR RFT4	6900	7055	R	Left and Right Circular	1M23XXX	0.0	0.0
E50. Modulation entirety.)  White-not	on and Service			escription does not appear i	n this box, please	go to the end of t	he form to view it in its

SBR RFT4	6900	7055	R	Left and Right Circular	200KG7D	0.0	0.0	
E50. Modulation entirety.)	on and Service	es (If the	he complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its	
Burst mod	le packet	data w	vith BPSK	modulation				
SBR RFT4	6900	7055	R	Left and Right Circular	230KG7D	0.0	0.0	
Burst mod	le packet	data w	ith BPSK	modulation				
SBR RFT4	6900	7055	R	Left and Right Circular	280KG7D	0.0	0.0	
E50. Modulation entirety.)  Burst mod				escription does not appear	in this box, please	go to the end of t	he form to view it in its	

SBR RFT4	5096	5250	Т	Left and Right Circular	2M46G7W	55.0	27.1
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	this box, please go	to the end of the form	n to view it in its
Wideband (	DMA voice	e and	data				
SBR RFT4	6900	7055	R	Left and Right Circular	1M23G2W	0.0	0.0
Direct-sec	uence CDN	/A for	single-carrie	r AMSS			
SBR RFT4	5091	5092	Т	Left Hand Circular	76K0F2D	68.0	55.2
E50. Modulation entirety.)  FM subcarr			ne complete description	on does not appear in	this box, please go	to the end of the form	n to view it in its

SBR RFT4	5096 525	50 T	Left and Right Circular	2M46G2W	55.0	27.1
E50. Modulation entirety.)	n and Services (	If the complete d	escription does not appear	in this box, please	go to the end of the	he form to view it in its
Wideband	CDMA for sing	yle-carrier	AMSS			
SBR RFT4	6900 705	55 R	Left and Right Circular	2M50G2D	0.0	0.0
Direct-se	quence CDMA f	for single-c	carrier telemetry o	lata		
SBR RFT4	6900 705	55 R	Left and Right Circular	2M50G7D	0.0	0.0
E50. Modulatio entirety.)  Direct se			description does not appear		go to the end of the	he form to view it in its

SBR RFT4	5096	5250	Т	Left and Right Circular	1M23XXX	59.0	34.1
E50. Modulation entirety.)	n and Service	es (If th	ne complete de	escription does not appear	in this box, please	go to the end of the	ne form to view it in its
White-noi	se-modula	ated ca	arrier for	testing			
SBR RFT4	5096	5250	Т	Left and Right Circular	1M23G2W	55.0	30.1
SBR RFT4	5096	5250	Т	Left and Right Circular	4M50G7D	68.0	37.5
E50. Modulation entirety.)  Burst mod				escription does not appear		go to the end of the	ne form to view it in its

SBR RFT4	5096	5250	T	Left and Right	N0N	59.0	59.0
				Circular			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Unmodulated CW for testing; maximum EIRP density per carrier is 59.0 dBW in any bandwidth.

# FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
SBR RFT4	Non– Geostationary	5091 5250	0.0/0.0	0.0	5.0	360.0	5.0	6.29
	Non– Geostationary	6875 7055	0.0/0.0	0.0	5.0	360.0	5.0	0.0

## REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
N/A	408-933-4600
NOTE: Please enter the callsign of the controlling station, not the	
callsign for which this application is being filed.	

E62. Street Address 1351 Holiday Square Blvd			
E63. City Covington	E68. County St. Tammany Par	E67/68. State/Country LA/ USA	E64. Zip Code 70433

#### FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060–0678.

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.

### 43. Description. (Summarize the nature of the application and the services to be provided).

GUSA Licensee LLC (together with its parent Globalstar, Inc., 'Globalstar') hereby requests authority to modify Globalstar's feeder link earth station antenna operating in Sebring, Florida, under call sign E050100. Globalstar proposes to operate its second-generation earth station antenna under this call sign, and to use this antenna to transmit a new waveform over its global mobile satellite service ('MSS') network.