Approved by OMB 3060–0678

Date & Time Filed: Dec 15 2020 4:20:12:286PM File Number: SES-MOD-INTR2020-03797

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 E970199

Name:	GUSA Licensee LLC	Phone Number:	9853351500
DBA Name:		Fax Number:	408-933-4960
Street:	461 S. Milpitas Boulevard	E-Mail:	Barbee.Ponder@Globalstar.com
City:	Milpitas	State:	CA
<b>Country:</b>	USA	Zipcode:	95035 –
Attention:	Mr L. Barbee Ponder IV		

9–16. Nai	me of Contact	Representative		
	Name:	Wen Doong	Phone Number:	9853351500
	<b>Company:</b>	Globalstar, Inc.	Fax Number:	
	Street:	1351 Holiday Square Blvd	E-Mail:	Wen.Doong@Globalstar.com
	City:	Covington	State:	LA
	<b>Country:</b>	USA	Zipcode:	70433–5438
	Attention:		<b>Relationship:</b>	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.	<ul> <li>(N/A) b1. Application for License of New Station</li> <li>(N/A) b2. Application for Registration of New Domestic Receive–Only Station</li> <li>b3. Amendment to a Pending Application</li> </ul>
<ul> <li>a1. Earth Station</li> <li>a2. Space Station</li> </ul>	<ul> <li>b4. Modification of License or Registration</li> <li>b5. Assignment of License or Registration</li> <li>b6. Transfer of Control of License or Registration</li> <li>b7. Notification of Minor Modification</li> </ul>
	<ul> <li>(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite</li> <li>(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States</li> <li>(N/A) b10. Other (Please specify)</li> <li>(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</li> <li>(N/A) b12. Application for Database Entry</li> <li>b13. Amendment to a Pending Database Entry Application</li> <li>b14. Modification of Database Entry</li> </ul>

17c. 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):				
17d.				
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a		
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:		
E970199		SESMOD2017011200029		

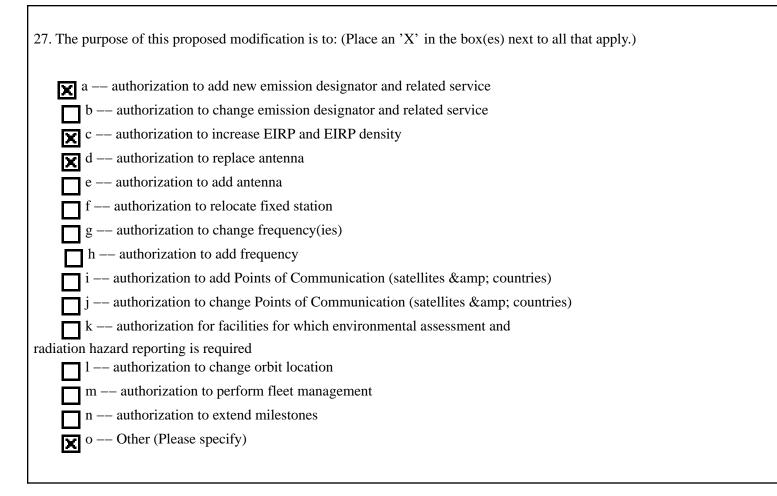
### TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:			
a. Fixed Satellite			
<b>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 a	all that apply.		
only one. Using U.S. licensed satellites			
O Common Carrier	tes		
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec facilities:	. 214 filings. Choose one. Are these		
Connected to a Public Switched Network O Not connected to a Public Switched Network O N/A			
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable 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: 5091Frequency Upper: 7055(Please specify additional frequency Control of the specific	cies 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
o c. 12/14 GHz VSAT Network
O 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



#### 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	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	۲	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	۲	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	0	No	۲	N/A

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?

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.	O 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	

O Yes O No ⊚ N/A

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.	O Yes	● 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	O 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	O 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.

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.



O No

Non-US Licensed Sat.

Yes

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? Republic of France

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 Clifton, Texas, under call sign E970199. Globalstar proposes to operate its secondgeneration 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.	<b>O</b> 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.	● <sup>B</sup>
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.

44. Applicant is a (an): (Choose the button next to applicable respon	nse.)
O Individual	
• Unincorporated Association	
• Partnership	
• Corporation	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
L.Barbee Ponder IV	General Counsel and VP − Regulatory Affairs
>	
	ORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
	OR REVOCATION OF ANY STATION AUTHORIZATION D/OR FORFEITURE (U.S. Code, Title 47, Section 503).
	(0.5. Code, The T, Section 505).

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

Location of Earth Sta	ation Site				
E1: Site Identifier:	CLFN-1	E5. Call Sign:	E970199		
E2: Contact Name	James Cathcart	E6. Phone Number:	254-675-4385		
E3. Street:	848 County Road 4290	E7. City:	Clifton		
		E8. County:	Bosque		
E4. State	ТХ	E9. Zip Code	76634		
E10. Area of Operat	ion:	Clifton			
E11. Latitude:	31 °48 '0.2 "N				
E12. Longitude:	97 °36 '44.3 "W				
E13. Lat/Lon Coord	linates are:	ONAD-27	● NAD-83	O <sup>N/A</sup>	
E14. Site Elevation	(AMSL):	218.0 meters			

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.	O <sup>Yes</sup>	O No	€ N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	• Yes	O <sup>No</sup>	O <sup>N/A</sup>
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as E18 Response	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation?E20 Response FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: GLOBALSTAR 2.0   HIBLEO-X   NGSO If	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

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

E21. Common Name:	E22. ITU Name:							
E23. Orbit Location:	E24. Country:							
POINTS OF COMMUNICATION (Destination Points)								
E25. Site Identifier:								
E26. Common Name:	E27. Country:							

#### ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
CLFN-1	CLF RFT1	1	Cobham SATCOM	SeaTel Tracker T6000	6.0	47.5 dBi at 5.150
CLFN-1	CLF RFT1	1	Cobham SATCOM	SeaTel Tracker T6000	6.0	51.2 dBi at 6.975

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)		E36. Above Sea Level(meters)	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
CLF RFT1	0.0/0.0	8.69	226.69	0.0	123.0	0.0	68.4
FREQUENCY	•			•		•	

#### E43/44. E45. E46. Antenna E47. Emission E48. Maximum E49. Maximum E28. Antenna Id **Frequency Bands** EIRP per Carrier ERIP Density per T/R<br>Mode Polarization(H,V, Designator (MHz) (dBW) Carrier **L**,**R**) (dBW/4kHz)

CLF RFT1	6900	7055	R	Left and Right Circular	1M23G7W	0.0	0.0
E50. Modulation entirety.)	and Services	s (If th	he 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	ž					
CLF RFT1	6875.9 6879.1		R	Left Hand Circular	70K0G7D	0.0	0.0
entirety.) Telemetry	carrier						
CLF RFT1	6900	7055	R	Left and Right Circular	NON	0.0	0.0
E50. Modulation entirety.)	and Services	s (If th	he complete de	escription does not appear in	1 this box, please	go to the end of t	the form to view it in its
Unmodulate	≥d CW for	testi	.ng				

CLF RFT1	6875.95 6877.15	R	Left Hand Circular	7K00G1D	0.0	0.0
E50. Modulatio entirety.)	on and Services (If t	he complete de	escription does not appear in	this box, please	go to the end of t	he form to view it in its
Telemetry	carrier					
CLF RFT1	6900 7055	R	Left and Right Circular	2M46G7W	0.0	0.0
Wideband	CDMA voice and	data				
CLF RFT1	5091 5092	Т	Left Hand Circular	76K0F2D	68.0	55.2
E50. Modulatic entirety.)	n and Services (If t	he complete de	escription does not appear in	this box, please	go to the end of t	he form to view it in its

CLF RFT1	5096	5250	Т	Left and Right Circular	1M23G7W	55.0	30.1
E50. Modulati	on and Servic	es (If th	he complete de	scription does not appear i	n this box, please	go to the end of t	he form to view it in its
entirety.)							
CDMA VOI	ce and da	ta					
CLF RFT1	6900	7055	R	Left and Right Circular	2M46G2W	0.0	0.0
entirety.) Wideband	CDMA for	single	e-carrier <i>P</i>	4MSS			
CLF RFT1	5091.38 5091.62		Т	Left Hand Circular	40K0G2D	68.0	58.0
E50. Modulati	on and Servic	es (If the	he complete de	scription does not appear i	n this box, please	go to the end of t	he form to view it in its
entirety.)							
Telecomm	and carrie	er					

CLF RFT1	6900	7055	R	Left and Right Circular	1M23XXX	0.0	0.0
E50. Modulat entirety.)	tion and Servic	es (If the	he complete des	cription does not appear	in this box, please	go to the end of t	the form to view it in its
	oise-modul	ated ca	arrier for	testing			
CLF RFT1	6900	7055	R	Left and Right Circular	200KG7D	0.0	0.0
Burst mo	ode packet	data w	vith BPSK m	odulation			
CLF RFT1	6900	7055	R	Left and Right Circular	230KG7D	0.0	0.0
E50. Modulat entirety.)	tion and Servic	es (If the	he complete des	cription does not appear	in this box, please	go to the end of t	the form to view it in its
Burst mo	ode packet	data w	vith BPSK m	odulation			

CLF RFT1	6900	7055	R	Left and Right Circular	280KG7D	0.0	0.0
E50. Modulati entirety.)	on and Servic	es (If th	he complete de	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Burst mo	de packet	data w	vith BPSK	modulation			
CLF RFT1	5096	5250	Т	Left and Right Circular	2M46G7W	55.0	27.1
Wideband	CDMA voi	ce and	data				
CLF RFT1	6900	7055	R	Left and Right Circular	1M23G2W	0.0	0.0
E50. Modulati entirety.) Direct-s			•	escription does not appear	in this box, please	go to the end of t	he form to view it in its

CLF RFT1	5096	5250	Т	Left and Right Circular	2M46G2W	55.0	27.1
E50. Modulation entirety.)	on and Service	s (If th	he complete descrip	tion does not appear	in this box, please	go to the end of t	he form to view it in its
Wideband	CDMA for	single	e-carrier AMSS	5			
CLF RFT1	6900	7055	R	Left and Right Circular	2M50G2D	0.0	0.0
				ler telemetry o			
CLF RFT1	6900	7055	R	Left and Right Circular	2M50G7D	0.0	0.0
E50. Modulation entirety.) Direct so		×		tion does not appear	•	go to the end of the	he form to view it in its

CLF RFT1	5096	5250	Т	Left and Right Circular	1M23XXX	59.0	34.1
E50. Modulation entirety.)	on and Servic	es (If th	ne complete desci	ription does not appear	in this box, please	go to the end of the	he form to view it in its
	se-modul	ated ca	arrier for t	esting			
CLF RFT1	5096	5250	Т	Left and Right Circular	1M23G2W	55.0	30.1
Direct-se	quence C	DMA for	single-car:	rier AMSS			
CLF RFT1	5096	5250	Т	Left and Right Circular	4M50G7D	68.0	37.5
E50. Modulatio entirety.) Burst mod			•	ription does not appear	•	go to the end of the	he form to view it in its

CLF RFT1	5096	5250	Т	Left and Right Circular	NON	59.0	59.0		
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.)									
Unmodulate	d CW for	testi	ng; maximum EI	RP 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	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
CLF RFT1	Non– Geostationary	5091 5250	0.0/0.0	0.0	10.0	360.0	10.0	6.29
	Non– Geostationary	6875 7055	0.0/0.0	0.0	10.0	360.0	10.0	0.0

# REMOTE CONTROL POINT LOCATION

E61. Call Sign N/A	E66. Phone Number 9853351500
NOTE: Please enter the callsign of the controlling station, not the	7855551500
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 Clifton, Texas, under call sign E970199. 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.