Approved by OMB 3060–0678

Date & Time Filed: Feb 17 2021 4:46:15:490PM File Number: SES–MOD–INTR2021–00716

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 E990336

Name:	GCL 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		

ame of Contact	Representative		
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

CLASSIFICATION OF FILING

17. Choose the button next to the	
classification that applies to this filing for	(N/A) b1. Application for License of New Station
both questions a. and b. Choose only one	(N/A) b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	• b3. Amendment to a Pending Application
a1. Earth Station	b4. Modification of License or Registration
V V	b5. Assignment of License or Registration
• a2. Space Station	b6. Transfer of Control of License or Registration
	• b7. 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
	b13. Amendment to a Pending Database Entry Application
	b 14. Modification of Database Entry

17c. Is a fee submitted with this applicat		
If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).		
O Governmental Entity O Noncomme	ercial educational licensee	
• Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite 'Station	Transmit/Receive Earth	
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:
E990336		SESMFS2009122101604

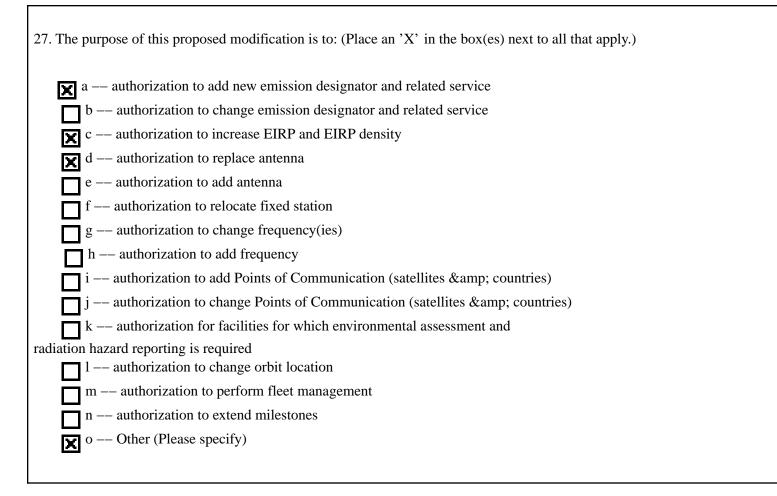
TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service	ce(s): Select all that apply:
a. Fixed Satellite	
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	O Yes
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.	Rad. Hazard

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	۲	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	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	۲	No	0	N/A

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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	le 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.	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?US for GLOBALSTAR and Republic of France for GLOBALSTAR 2.0

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.)

GCL Licensee LLC (together with its parent Globalstar, Inc., 'Globalstar') seeks to modify its licensed feeder link earth station antenna in Las Palmas, Puerto Rico, so that it can operate Globalstar's second-generation earth station antenna under Call Sign E990336. These second-generation antennas will yield significant operational benefits for

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
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.	O 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 S	tation Site			
E1: Site Identifier:	LPMA-2	E5. Call Sign:	E990336	
E2: Contact Name	Luis Figueroa	E6. Phone Number:	787–396–9057	
E3. Street:	Las Palmas	E7. City:	Cabo Rojo	
	Road 303 INT. KM 12.1	E8. County:	Cabo Rojo	
E4. State	PR	E9. Zip Code	00623	
E10. Area of Opera	tion:	Cabo Rojo, PR, US	SA	
E11. Latitude:	17 °58 '49.0 "N			
E12. Longitude:	67 °8 '14.0 "W			
E13. Lat/Lon Coord	dinates are:	() NAD-27	ONAD-83	O N/A
E14. Site Elevation	(AMSL):	55.0 meters		

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	ONd	O ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	¢) No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as E18 Response	۲	Yes	0	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 (S2115) HIBLEO-4 NGSO	If you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

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:						
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)
LPMA-2	LPA RFT2	1	Cobham SATCOM	SeaTelTracker T6000	6.0	47.5 dBi at 5.15
LPMA-2	LPA RFT2	1	Cobham SATCOM	SeaTelTracker T6000	6.0	51.2 dBi at 6.975

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	· · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
LPA RFT2	0.0/0.0	8.69	63.69	0.0	295.0	0.0	72.2
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
Mode Polarization(H,V, Designator (MHz) (dBW) Carrier **L**,**R**) (dBW/4kHz)

LPA RFT2	5096	5250	Т	Left and Right Circular	1M23G7W	55.0	30.1
E50. Modulati entirety.)	on and Servio	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
CDMA voi	ce and da	ta					
LPA RFT2	6900	7055	R	Left and Right Circular	1M23G7W	0.0	0.0
CDMA voi	ce and da	ta					
LPA RFT2	6900	7055	R	Left and Right Circular	NON	0.0	0.0
E50. Modulati entirety.)	on and Servio	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
Unmodula	ced CW fo	r testi	.ng				

LPA RFT2	6900	7055	R	Left and Right Circular	230KG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (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
	e packet.	data w	vith BPSK m	nodulation			
LPA RFT2	6900	7055	R	Left and Right Circular	280KG7D	0.0	0.0
Burst moc	e packet	data w	vith BPSK n	nodulation			
LPA RFT2	6900	7055	Т	Left and Right Circular	200KG7D	0.0	0.0
E50. Modulation entirety.)	n and Servic	es (If the	he complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
Burst mod	e packet.	data w	vith BPSK n	nodulation			

LPA RFT2	5096	5250	Т	Left and Right Circular	2M46G7W	55.0	27.1
E50. Modulat entirety.)	ion and Service	es (If the	he complete de	scription does not appear	in this box, please	go to the end of the	he form to view it in its
	d CDMA voic	e and	data				
LPA RFT2	6900	7055	R	Left and Right Circular	2M46G7W	0.0	0.0
	l CDMA voic						
LPA RFT2	5096	5250	Т	Left and Right Circular	2M46G2W	55.0	27.1
E50. Modulat entirety.)	ion and Service	es (If th	he complete de	scription does not appear	in this box, please	go to the end of the	he form to view it in its
Wideband	l CDMA for	single	e-carrier A	4MSS			

LPA RFT2	6900	7055	R	Left and Right Circular	2M46G2W	0.0	0.0
E50. Modulation entirety.)	on and Service	es (If th	he complete descript	ion 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				
LPA RFT2	5096	5250	Т	Left and Right Circular	1M23XXX	59.0	34.1
LPA RFT2	6900	7055	R	Left and Right Circular	1M23XXX	0.0	0.0
E50. Modulatic entirety.) White-noi			he complete descript	ion does not appear	in this box, please	go to the end of t	he form to view it in its

LPA RFT2	5096	5250	Т	Left and Right Circular	1M23G2W	55.0	30.1
E50. Modulati entirety.)	on and Servic	ces (If the	he complete descr	ription does not appear	in this box, please	go to the end of th	ne form to view it in its
Direct-s	equence C	DMA for	r single-car	rier AMSS			
LPA RFT2	6900	7055	R	Left and Right Circular	1M23G2W	0.0	0.0
LPA RFT2	5096	5250	Т	Left and Right	4M50G7D	72.2	41.5
E50. Modulati entirety.)	on and Servic	ces (If the	he complete descr	Circular ription does not appear	in this box, please	go to the end of th	ne form to view it in its

LPA RFT2	6900	7055	R	Left and Right Circular	2M50G2D	0.0	0.0
E50. Modulation entirety.)	on and Servio	ces (If the	ne complete de	scription does not appear	in this box, please	go to the end of t	he form to view it in its
Direct-se	equence C	DMA for	s single-ca	arrier telemetry (lata		
LPA RFT2	6900	7055	R	Left and Right Circular	2M50G7D	0.0	0.0
				arrier telemetry o			
LPA RFT2	5096	5250	Т	Left and Right Circular	NON	59.0	59.0
E50. Modulation entirety.) Unmodulat			•	scription does not appear			

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)
LPA RFT2	Non– Geostationary	5091 5250	0.0/0.0	0.0	5.0	360.0	5.0	10.29
	Non– Geostationary	6875 7055	0.0/0.0	0.0	5.0	360.0	5.0	0.0
E61. Call S N/A NOTE: Plea callsign for wh E62. Street	ase enter the calls ich this application	ign of the contro		408-	. Phone Number -933–4600			
E63. City Covington			E68. County St. Tamman			E67/68. State/Country LA/ USA	7	E64. Zip Code 70433

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

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

GCL Licensee LLC (together with its parent Globalstar, Inc., 'Globalstar') seeks to modify its licensed feeder link earth station antenna in Las Palmas, Puerto Rico, so that it can operate Globalstar's second-generation earth station antenna under Call Sign E990336. These secondgeneration antennas will yield significant operational benefits for Globalstar's global mobile satellite service ('MSS') network. Globalstar also seeks to use this antenna to transmit a new waveform over its MSS system.