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File Number: SES-MFS-20091221-01604

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

–8. Legal Nam	e of App	olicant		
Nan	ne:	GCL Licensee LLC	Phone Number:	408–933–4525
DB/ Nan			Fax Number:	408–933–4960
Stre	et:	461 S. Milpitas Boulevard	E–Mail:	tony.navarra@globalstar.com
City	7 <b>:</b>	Milpitas	State:	CA
Cou	ntry:	USA	Zipcode:	95035 –
Atte	ention:	Mr Anthony J. Navarra		

9–16. Name of Contact Representative

Name: William F. Adler Phone Number: 408–933–4401

**Company:** Globalstar, Inc. **Fax Number:** 408–933–4904

Street: 461 S. Milpitas Blvd. E–Mail: william.adler@globalstar.com

City: Milpitas State: CA

**Country:** USA **Zipcode:** 95035–5438

**Attention:** William F. Adler **Relationship:** Same

#### **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

**o** b3. Amendment to a Pending Application

b4. Modification of License or Registration

b5. Assignment of License or Registration

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

b14. Modification of Database Entry

	on? 159. If No, indicate reason for fee exemption (sercial educational licensee	ee 47 C.F.R.Section 1.1114).			
7d.					
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 apmodification please enter only the file number:	oplication enter both fields, if this filing is a			
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:			
E990336		SESMOD2005072801006			

# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	le or use the following type(s) of service(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 all that apply.		
only one.	Using U.S. licensed satellites		
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites		
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:	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	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: 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
o 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 & Double Countries)
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
l — 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

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?

Yes No

30. Is the applicant an alien or the representative of an alien?

Yes No N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes No 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?
- Yes No 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?	Yes <b>O</b>	No 🍙 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	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	<b>⊚</b> 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	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	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station? Republic of France	nat administr	ation has
3. Description. (Summarize the nature of the application and the services to be provided). (If the complete description pox, please go to the end of the form to view it in its entirety.)	n does not aj	ppear in this
GCL Licensee LLC requests modification of its earth station license in the maspecified herein.	anner	
Narrative Table 1		

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.	В
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.	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 app	plicable response.)		
Individual			
<ul> <li>Unincorporated Association</li> </ul>			
Partnership			
Corporation			
Governmental Entity			
Other (please specify)			
•			
45. Name of Person Signing	46. Title of Person Signing		
William F. Adler	Vice President — Legal and 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).

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

Location of Earth Station Site

E1: Site Identifier: LPMA-2 E5. Call Sign: E990336

E2: Contact Name Rafael Medina E6. Phone 787−

Number: 255−0000

E3. Street: Las Palmas E7. City: Cabo Rojo

Road 303 INT. E8. County: Cabo Rojo

KM 12.1

E4. State PR E9. Zip Code 00623

E10. Area of Operation: Cabo Rojo, PR, USA

E11. Latitude: 17 °58 '49.0 "N

E12. Longitude: 67 °8 '14.0 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 N/A

E14. Site Elevation (AMSL): 55.0 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 Yes O No

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?		<b>●</b> Yes	No	N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.		● Yes	٥	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	dination report as			
		Yes		No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	me of the country(ies) and plot of	O Yes	0	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?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.		Yes		No
POINTS OF COMMUNICATION				
Satellite Name: OTHER   OTHER   If you selected OTHER, please en	ter the following:			
E21. Common Name: GLOBALSTAR 2.0	E22. ITU Name: HIBLEO-X			
E23. Orbit Location: NGSO	E24. Country: France			

Satellite Name: GLOBALSTAR | GLOBALSTAR | NGSO If you selected OTHER, please enter the following:

FREQUENCY E28. Antenna Id	E43/44. Frequency Ba	E45	5. R Mo	ode	E46. Ante		E47. E	Emission	_	Maximum P per Carrier	E49. Maximum ERIP Density per	
LPA RFT2	Minor/Major (meters)	(meters)		63.2		Ground I (meters)		antenna fla (Watts)		Above Roofton (meters)		
E28. Antenna Id	E33/34. Diameter	E35. Ab			bove Sea meters)	E37. Buil Height A		E38. Total Input Powe	er at	E39. Maximur Antenna Heig	n E40. Total ht EIRP for al	
LPMA-2	LPA RFT2	1		Alcatel	l	9775		5.5		50.2 dBi at 6.975		
LPMA-2	LPA RFT2	1		Alcatel	l	9775		5.5		47.6 dBi at 5.150		
Site ID	E28. Antenna Id	E29. Qu	antity	E30. Manuf	facturer	E31. Mod	lel	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)		
ANTENNA	I	T						I				
E26. Common N						E27. Cou	ntrv:					
POINTS OF C		ION (Dest	tination l	Points)		Ι						
E23. Orbit Location: POINTS OF COMMUNICATION (Destination Points)							ntry:					
E21. Common Name:							E22. ITU Name:					

(dBW/4kHz)

LPA RFT2	6900	7055	R	Left and Right Circular	1M23G7W	0.0	0.0
E50. Modulation entirety.)	and Services	(If th	ne complete description	on does not appear in	n this box, please go to	o the end of the form	to view it in its
CDMA voice	and data	ì					
LPA RFT2	6900	7055	R	Left and Right Circular	NON	0.0	0.0
Unmodulate	d CW for	testi	.ng				
LPA RFT2	6900	7055	R	Left and Right Circular	2M46G7W	0.0	0.0
E50. Modulation entirety.)  Wideband C				on does not appear in	n this box, please go t	o the end of the form	to view it in its

LPA RFT2	5096	5250	Т	Left and Right Circular	1M23G7W	55.0	30.1
E50. Modulation entirety.)	on and Servic	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 voic	e and dat	ia					
LPA RFT2	6900	7055	R	Left and Right Circular	2M46G2W	0.0	0.0
Wideband	CDMA for	single	e-carrier	AMSS			
LPA RFT2	6900	7055	R	Left and Right Circular	1M23XXX	0.0	0.0
E50. Modulation	on and Servic	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
White-noi	se-modula	ited ca	arrier for	testing			

LPA RFT2	5096	5250	Т	Left and Right Circular	2M46G7W	55.0	27.1
E50. Modulation entirety.)	and Service	es (If th	ne complete descripti	on does not appear	in this box, please g	go to the end of the	e form to view it in its
Wideband (	CDMA voic	e and	data				
LPA RFT2	6900	7055	R	Left and Right Circular	1M23G2W	0.0	0.0
Direct-sed	quence CD	MA for	single-carrie	er AMSS			
LPA RFT2	5096	5250	Т	Left and Right Circular	2M46G2W	55.0	27.1
E50. Modulation entirety.)  Wideband			ne complete descripti e-carrier AMSS	on does not appear	in this box, please g	to the end of the	e form to view it in its

LPA RFT2	6900	7055	R	Left and Right Circular	2M50G2D	0.0	0.0
E50. Modulation entirety.)	and Service	es (If th	ne complete descrip	otion does not appear	in this box, please	go to the end of th	he form to view it in its
Direct-sec	quence CD	)MA for	single-carri	ier telemetry o	lata		
LPA RFT2	5096	5250	Т	Left and Right Circular	1M23XXX	59.0	34.1
White-nois	∍e-modula	ited ca	arrier for tes	sting			
LPA RFT2	5096	5250	Т	Left and Right Circular	1M23G2W	55.0	30.1
E50. Modulation entirety.)					in this box, please	go to the end of the	he form to view it in its
Direct-sec	quence CI	)MA for	single-carri	ier AMSS			

LPA RFT2	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	1	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	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 6875 – 7055	0.0/0.0	0.0	5.0	360.0	5.0	22.9

### REMOTE CONTROL POINT LOCATION

E61. Call Sign

N/A

E66. Phone Number

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

461 S. Milpitas Blvd.

E63. City Milpitas	E68. County Santa Clara	E67/68. State/Country CA/ USA	E64. Zip Code 95035

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