Approved by OMB 3060–0678

Date & Time Filed: Jul 23 2015 11:48:21:403AM File Number: SES–MOD–INTR2015–01370

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 Authorization E020288

1–8. Legal Name of Applicant Globecomm License Sub LLC **Phone Number:** Name: 631-231-9800 DBA Fax Number: 631-231-1557 Name: Street: 45 Oser Avenue E-Mail: fcclicense@globecomm.com City: Hauppauge State: NY USA Zipcode: **Country:** 11788 Attention: John Flynn

9–16. Name of Contac	t Doprogontativo			
9-10. Name of Contac	a Representative			
Name:	Colleen King	Phone Number:	202-719-7307	
Company	: Wiley Rein LLP	Fax Number:	202-719-7049	
Street:	1776 K Street, NW	E-Mail:	cking@wileyrein.com	
City:	Washington	State:	DC	
Country:	USA	Zipcode:	20006-	
Attention		Relationship:	Legal Counsel	

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
¥	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
	• b14. Modification of Database Entry

17c. Is a fee submitted with this application		
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see	ee 47 C.F.R.Section 1.1114).
• Governmental Entity • Noncomme	ercial educational licensee	
• Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite 7 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 ap modification please enter only the file number:	pplication enter both fields, if this filing is a
(a) Call sign of station: E020288	(a) Date pending application was filed:	(b) File number:
		SESMOD2015051900303

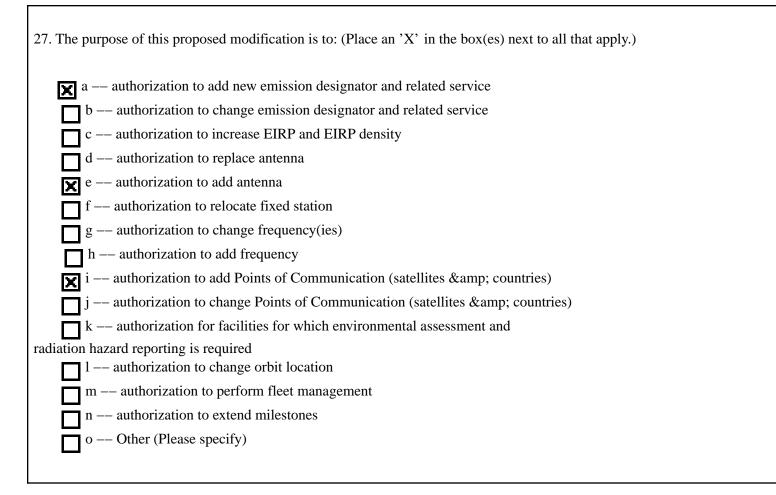
TYPE OF SERVICE

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. 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: Frequency Upper: (Please specify addition	onal 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
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.

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}
	RadHaz Study –	GSM13
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.	• Yes	● No
	RadHaz Study –	GSM12

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
	RadHaz Study – GSM11
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	O Yes ● No
means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	RadHaz Study – GSM–9
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.	O Yes ● No
	RadHaz Study – GSM–8
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.	RadHaz Study – GSM–7

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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

Yes

RadHaz Study – GSM–6

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?

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.)

Globecomm License Sub LLC seeks to modify Laurel, Maryland earth station license, call sign E020288, by adding additional emissions and increasing the total transmit power. This modification also seeks to revise the ID's of many of the antennas on the current authorization and to add a new 3.8 meter Ku-band antenna (GSM-11) to the authorization.

13 GHz Study

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.	● 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.	O ^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
	RadHaz Study – GSM14

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	licable response.)
O Individual	
• Unincorporated Association	
• Partnership	
• Corporation	
Governmental Entity	
• Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Julia Hanft	Sr. Vice President and General Counsel, Contracts
>	
(U.S. Code, Title 18, Section 1	E ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT 001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION 2(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 S	tation Site					
E1: Site Identifier:	Laurel	E5. Call Sign:	E020288			
E2: Contact Name	John Flynn	E6. Phone Number:	631-231-9800			
E3. Street:	9898 Brewers Court	E7. City:	Laurel			
		E8. County:	Howard			
E4. State	MD	E9. Zip Code	20723			
E10. Area of Opera	tion:	CONUS				
E11. Latitude:	39 °6 '45.5 "N					
E12. Longitude:	76 °49 '58.0 "W					
E13. Lat/Lon Coord	dinates are:	O ^{NAD-27}	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	72.42 meters				
l						

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 ^{No}	O ^{N/A}
two degree spacing policy.		

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?	O Yes	O ^{No}	♥ N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	o Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	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? 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: PERMITTED LIST If you selected OTHER, plea	If you selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				

Satellite Name: Telstar 12 (S2462) | USASAT-14L | 15W 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)
Laurel	GSM-7	1	Andrew Corp.	ES76K-1	7.6	57.7 dBi at 11.95
Laurel	GSM-7	1	Andrew Corp.	ES76K-1	7.6	59.9 dBi at 14.25
Laurel	GSM-8	1	Andrew Corp.	ES76K-1	7.6	57.7 dBi at 11.95
Laurel	GSM-8	1	Andrew Corp.	ES76K-1	7.6	59.9 dBi at 14.25
Laurel	GSM-6	1	Andrew Corp.	ES56	5.6	55.7 dBi at 12.00
Laurel	GSM-6	1	Andrew Corp.	ES56	5.6	57.1 dBi at 14.00
Laurel	GSM-13	1	Andrew Corp.	ES56	5.6	55.7 dBi at 12.00
Laurel	GSM-13	1	Andrew Corp.	ES56	5.6	57.1 dBi at 14.00

Laurel	GSM-14	1	ASC Signal	4.9m	4.9	53.2 dBi at 11.95	
Laurel	GSM-14	1	ASC Signal	4.9m	4.9	55.1 dBi at 14.25	
Laurel	GSM-9	1	Prodelin Corp.	1214	2.4	47.4 dBi at 11.95	
Laurel	GSM-9	1	Prodelin Corp.	1214	2.4	49.2 dBi at 14.25	
Laurel	GSM-12	1	Prodelin Corp.	1383	3.8	51.7 dBi at 12.00	
Laurel	GSM-12	1	Prodelin Corp.	1383	3.8	53.2 dBi at 14.00	
Laurel	GSM-11	1	Patriot Ant. Systems	3.8m	3.8	51.8 dBi at 11.95	
Laurel	GSM-11	1	Patriot Ant. Systems	3.8m	3.8	53.5 dBi at 14.25	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	
GSM-7	0.0/0.0	8.6	81.0	0.0	400.0	0.0	85.9
GSM-8	0.0/0.0	8.6	81.0	0.0	400.0	0.0	85.9
GSM-6	0.0/0.0	6.6	79.0	0.0	750.0	0.0	85.85
GSM-13	0.0/0.0	6.6	79.0	0.0	650.0	0.0	85.23
GSM-14	0.0/0.0	5.5	77.9	0.0	200.0	0.0	78.1
GSM-9	0.0/0.0	3.5	75.9	0.0	125.0	0.0	70.2

GSM-12	0.0/0.0	4.8	77.2	0.0	125.0	0.0	74.2
GSM-11	0.0/0.0	4.8	77.2	0.0	400.0	0.0	79.5

FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
GSM-7	13750 14000	Т	Horizontal and Vertical	30M0G7W	75.9	37.2

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.)

Digital	Audio.	Video.	and	Data
DIGICUI	Huuro,	viaco,	ana	Ducu

GSM-7	13750	Т	Horizontal and	700KG7W	68.2	45.8
	14000		Vertical			

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.)	

Digital Audio, Video, and Data

GSM-7	13780 14000	Horizontal and Vertical	36M0G7W	81.7	42.2

E50. Modulatio	n and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
entirety.)						
Digital A	udio, Video, a	and Data				
GSM-14	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
Digital A	udio, Video, a	and Data				
GSM-14	14000 14500	Т	Horizontal and Vertical	36M0G7W	78.1	38.6
E50. Modulatio entirety.)	n and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
Digital A	udio, Video, a	and Data				
GSM-9	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0

E50. Modulation	n and Services (If	the complete descript	ion does not appear i	n this box, please go	to the end of the form	n to view it in its
entirety.)						
Digital Au	udio, Video, a	nd Data				
GSM–9	14000 14500	Т	Horizontal and Vertical	36M0G7W	70.2	30.7
E50. Modulation entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please go	to the end of the form	n to view it in its
Digital Au	udio, Video, a	nd Data				
GSM-12	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If	the complete descript	ion does not appear i	n this box, please go	to the end of the form	n to view it in its
Digital Au	udio, Video, a	nd Data				
GSM-12	14000 14500	Т	Horizontal and Vertical	36M0G7W	74.2	34.7

E50. Modulation	n and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	n to view it in its
entirety.)						
Digital Au	udio, Video, an	nd Data				
GSM-11	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
Digital Au	udio, Video, an	nd Data				
GSM-11	11700 12200	R	Horizontal and Vertical	500KG7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
Digital Au	udio, Video, an	nd Data				
GSM-11	14000 14500	Т	Horizontal and Vertical	36M0G7W	79.0	39.5

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.)

Digital Audio, Video, and Data

GSM-11	14000	Т	Horizontal and	500KG7W	60.5	39.5
	14500		Vertical			

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.)

Digital Audio, Video, and Data

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Range of Satellite Arc Eastern/West	Station Azimuth Angle	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)
GSM-7	Geostationary	13750 14000	15.0/143.0	108.7	13.0	254.4	9.7	-6.3
	Geostationary	13780 14000	15.0/143.0	108.7	13.0	254.4	9.7	-6.3

GSM-11	Geostationary	11700 12200	5.0/143.0	101.7		5.3	254.4	9.7	0.0
	Geostationary	14000 14500	5.0/143.0	101.7		5.3	254.4	9.7	-0.7
REMOTE CONTROL POINT LOCATION									
E61. Call Sign E66. Phone Number NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E66. Phone Number E62. Street Address E66. Phone Number									
E63. City			E68. County	7			E67/68. State/Country /	E64	I. Zip Code

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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).

Globecomm License Sub LLC seeks to modify Laurel, Maryland earth station license, call sign E020288, by adding additional emissions and increasing the total transmit power. This modification also seeks to revise the ID's of many of the antennas on the current authorization and to add a new 3.8 meter Ku-band antenna (GSM-11) to the authorization. All other information in the current license remains unchanged.