Approved by OMB 3060-0678

Date & Time Filed: May 14 2010 3:54:28:690PM

File Number: SES-MFS-20100514-00592

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 1-8. Legal Name of Applicant

Phone STM Networks Inc Name: 949-273-6800 Number:

DBA Fax 949-273-6020 Name: Number:

2 Faraday Street: E-Mail: gdarbyshire@stmi.com

Suite B

City: Irvine State: CA

Country: USA Zipcode: 92618 -

Attention: Mr Geoff Darbyshire

9-16. Name of Contact Representative

Name: Carly T. Didden Phone Number: 202-457-6323 Company: Patton Boggs LLP Fax Number: 202-457-6315

2550 M Street, NW E-Mail: Street: cdidden@pattonboggs.com

DC City: Washington State:

Country: USA Zipcode: 20037-

Attention: Carly T. Didden Relationship: Legal Counsel

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

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 Noncommo	O Governmental Entity Noncommercial educational licensee						
Other(please explain):	Other(please explain):						
17d.							
Fee Classification CGV - Fixed S	Satellite VSAT System	1					
18. If this filing is in reference to an existing station, enter: 19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:							
(a) Call sign of station: E070026	(a) Date pending applicat	ion was filed:	(b) File number:				
L070020			SESLIC2007020500187				
	TYPE OF	SERVICE					
20. NATURE OF SERVICE: This filing apply:	g is for an authorization to	provide or use the	following type(s) of service(s): Select all that				
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. 22. If earth station applicant, check all that apply.							
Choose only one.		Using U.S. lic					
O Common Carrier Non-Common			S. licensed satellites				
	TONAL COMMON CARE	RIER service, see i	nstructions regarding Sec. 214 filings. Choose				
one. Are these facilities: Connected to a Public Switched Net	work O Not connected to	a Public Switched	Network • N/A				
24. FREQUENCY BAND(S): Place an		l applicable freque	ency band(s).				
a. C-Band (4/6 GHz) 🗷 b. Ku-Band	,						
c.Other (Please specify upper and lo		-1 <i>C</i>					
Frequency Lower: Frequency Upper: (F	1 ,		n an attachment)				
		STATION					
25. CLASS OF STATION: Choose the	button next to the class of s	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							
11 _							
f. Non-Geostationary Space Station g. Other (please specify)							
Y							
26. TYPE OF EARTH STATION FACILITY: Transmit/Receive Transmit-Only Receive-Only N/A							
"For Space Station applications, select N/A."							
1 11	PURPOSE OF M	ODIFICATIO	N				
27. The purpose of this proposed modif	ication is to: (Place an 'X'	in the box(es) next	to all that apply.)				
X	an dadamatar - 11 1						
a authorization to add new emissi b authorization to change emission	•						
b authorization to change emission designator and related service							

□ c authorization to increase EIRP and EIRP density □ d authorization to replace antenna □ f authorization to add antenna □ f authorization to change frequency(ies) □ h authorization to add frequency □ i authorization to add Points of Communication (satellites & countries) □ j authorization to change Points of Communication (satellites & countries) □ 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.	O Yes ⊗ No
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast aeronautical en route or aeronautical fixed radio station services are not required to res	
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes ● No
30. Is the applicant an alien or the representative of an alien?	O Yes ● No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes ● No O 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?	O XV O XVA
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 O 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 attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus,	O 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(ics) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ics) 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-Drny Act of 1988, 21 U.S.C. Section 802, 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? 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 licensing the space station? If no license will be issued, what administration has coordinated 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 licensing the space station? If no license will be issued, what administration has coordinated 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 licensing the space station? If no license will be issued, what administration has coordinated or is in the process of licensing the space station? 43a. Geographic Service Rule Certification By se	exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances
names, 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(ics) 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, 2 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? 42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has locondinated 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? If no license will be issued, what administration has coordinated 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 licensing the space station? If no license will be issued, what administration has coordinated or is in the process of licensing the space station? 43. Description. (Summarize the nature of the application and the services to be provided). STM Networks seeks authority to modify its Ru-Band VSAT system. See Attachment A.Attachment A 43a. Geographic Service Rule Certification By selecting B, 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 and will not comply with such requirements. By selecting C, the undersigned certifies that the a	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
application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 2 U.S.C. Section 862, because of a conviction for possession of 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? Yes No 18 (1988) and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43. 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? 43c. Description. (Summarize the nature of the application and the services to be provided). STM Networks seeks authority to modify its Ku-Band VSAT system. See Attachment A.Attachment A. 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. 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. 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 23 and will not comply with such requirements. CERTIFICATION The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory ower 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 spectr	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
If Yes, answer 42.6 and attach an activity and extended and appropriate. If No, proceed to question 43. 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? 43c. Description. (Summarize the nature of the application and the services to be provided). STM Networks seeks authority to modify its Ku-Band VSAT system. See Attachment A.Attachment A 43c. 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. 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. 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. 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 application and in the spectrum are a material part heroof and are incorporated rerein as if set out in full in this application. The undersigned, individually and for the application and the retor of and are incorporated rerein as if set out in full in this application. The undersigned	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.
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A3a. 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. 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. 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 comply with such requirements seems 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. 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 response.) Individual Unincorporated Association Order partnership Partnership Partnership Order partnership Partnership	
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44. Applicant is a (an): (Choose the button next to applicable response.) O Individual O Unincorporated Association O Partnership O Corporation O Governmental Entity	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.
Unincorporated Association Partnership Corporation Governmental Entity	44. Applicant is a (an): (Choose the button next to applicable response.)
	 Unincorporated Association Partnership Corporation

46. Title of Person Signing 45. Name of Person Signing Emil Youssefzadeh

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 Star	tion Site						
E1: Site Identifier:	Jacksonville1	E5. Call Sign:					
E2: Contact Name	Andrew Mametz	E6. Phone Number:	904-27	9-1777			
E3. Street:	4905 Belfort Road, Ste 145	E7. City:	Jackson	nville			
		E8. County:	Duval				
E4. State	FL	E9. Zip Code	32256				
E10. Area of Operation	on:	CONUS, Alaska, ar	nd Hawaii				
E11. Latitude:	30 ° 14 ' 44.0 " N						
E12. Longitude:	81 ° 34 ' 53.0 " W						
E13. Lat/Lon Coordii	nates are:	$\circ_{\mathrm{NAD-27}}$	NAI	D-83	0	N/A	
E14. Site Elevation (A	AMSL):	4.0 meters					
E16. If the proposed a the Fixed Satellite Ser with the antenna gain	pliance with two-degree spacing policy. Intenna(s) do not operate in the Fixed Satell rvice (FSS) with non-geostationary satellite patterns specified in Section 25.209(a2) an cation measurements?	s, do(es) the proposed antenna		o _{Yes} o	> _{No}	● N/A	
	erated by remote control? If YES, provide t	he location and telephone nur	mber of the	o Yes	•	No	
E18. Is frequency coordination required? If YES, attach a frequency coordination report as							
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as							
FAA notification 854 and/or the FA aviation? FAILURE TO C	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.						
POINTS OF COMM	UNICATION						
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the							

Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT If you selected OTHER, please enter the Following:						
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					

Satellite Name:NSS-7 NSS-7 22 W.L. If you selected OTHER, please enter the following:																	
E21. Common Name:									E22. ITU Name:								
E23. Orbit	Lo	cation:							E2	E24. Country:							
		MMUNICA		_	inat	tion	Points)										
E25. Site I	den	tifier: Jack	son	ville1													
E26. Com	mor	Name:									E27. Co	ount	ry: US	SA			
E25. Site 1	den	tifier: Jack	son	ville1													
E26. Com	mor	Name:									E27. Co	ount	ry: US	SA			
ANTENNA					_										~ .		
Site ID		E28. Antenna Id		E29. Quantit	t y	M	E30. Ianufacture	r	E31. Model	A	E32. Antenna Size	7		/42. Anter mint and/ _dBi at	nna Gain or Recieve GHz)		
Jacksonvil	le1	Hub1	2			II	aanxi obecom		K45T	4.5	5	53.	2 dBi	at 11.950			
Jacksonvil	le1	Hub1	2			II	aanxi obecom		K45T	4.5	5	54.	5 dBi	at 14.250			
E28. Antenna Id		E33/34. Diameter linor/Majo (meters)	r	E3: Abo Grou Lev (meta	ve ind el	1	E36. Above Sea Level (meters)	ove Sea Level Height Above Ground			Input Power a antenn flange	Power at A antenna Heig		E39. aximum ntenna ght Above cooftop neters)	E40. Total EIRP for al carriers (dBW)		
Hub1	0.0	/0.0		5.5			9.5	0.0	0		200.0	0.00			76.5		
E28. Antenna		E43/44. Frequency	,	E45. T/R			6. Antenna larization		E47. Emissio	 on	E48. M EIF			II	Maximum Density per		
Id	B	ands(MHz	Z)	Mode		(I	H,V,L,R)	ļ	Designat	tor	Carri	Carrier(dBW)			Carrier(dBW/4kHz)		
Hub1		700 12200		R	Ci	rcu			1M50G7W	V	0.0	0.0			0.0		
E50. Mod	_		vic	<u>_</u>			deo, Voice, a	no	d Data					1			
Hub1	12	700.0 200.0		K	Ci	rcu			2M20G7W	V	0.0			0.0			
E50. Mod	_		vic	es Digit			deo, Voice an	nd	Data		<u> </u>			1			
Hub1	Hub1 14000.0 T Linear and Circular			2M20G7W	V	67.9			40.5								
E50. Mod	E50. Modulation and Services Digital Video, Voice, and Data																
Hub1 14000.0 T Linear and Circular 4M50G7W 71.0 40.5																	
					tal	Vic	deo, Voice, a	ınc	d Data								
E28. Antenna	E 5 1	. Satellite	E Fre	52/53.	7 (of S	4/55. Range Satellite Arc sern/Western Limit	n	E56. Earth Station Azimuth Angle Eastern	Ai Ele E	Angie astern	Ang	th ion uth	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon		

				Limit		Limit		(dBW/4kHz)
Hub1	Geostationary	11700.0 12200.0	22.0/143.0	106.5	17.7	254.7	16.1	0.0
	Geostationary	14000.0 14500.0	22.0/143.0	106.5	17.7	254.7	16.1	-12.1

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.									
E62. Street Address									
E63. City	,		E64. Zip Code						

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY

Location of Earth Station Si	te						
E1: Site Identifier:	Irvine2	E5. Call Sign:					
E2: Contact Name	Geoff Darbyshire	E6. Phone Number:	949-273-68	800			
E3. Street:	2 Faraday	E7. City:	Irvine				
		E8. County:	Orange				
E4. State	CA	E9. Zip Code	92618				
E10. Area of Operation:		CONUS, Alaska, and Ha	awaii				
E11. Latitude:	33 ° 38 ' 27.6 " N						
E12. Longitude:	117 ° 43 ' 19.1 " W						
E13. Lat/Lon Coordinates a	re:	O _{NAD-27}	● NAD-83	o _{N/A}			
E14. Site Elevation (AMSL):	94.5 meters					
do(es) the proposed antenna (b) as demonstrated by the n analysis showing compliance E16. If the proposed antenna the Fixed Satellite Service (I with the antenna gain pattern manufacturer's qualification	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. 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? E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.						
E18. Is frequency coord	E18. Is frequency coordination required? If YES, attach a frequency coordination report No No						
E19. Is coordination wire country(ies) and plot of	o Yes o 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.

								T		

Satellite Name:SATMEX-5 SATMEX-5 116.8 W.L. If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
Satellite Name: ALSAT ALL AUTHORIZED U.S. ALSAT following:	If you selected OTHER, please enter the						
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	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
Irvine2	Hub2	1	/\ndraw	ES46MP- 4124W	4.6	53.1 dBi at 11.950
Irvine2	Hub2	1	I A ndrew	ES46MP- 4124W	4.6	54.7 dBi at 14.250

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)	E40. Total EIRP for al carriers (dBW)
Hub2	0.0/0.0	5.5	100.0	0.0	125.9	0.0	75.7

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)					
Hub2	00 00	IK I	Linear and Circular	00	0.0	0.0					
E50. Modulation and Services NULL											
Hub2	00 00	li I i	Linear and Circular	00	0.0	0.0					
E50. Modu	lation and Servic	es NUL	L								
Hub2	11700.0 12200.0	IK I	Linear and Circular	4M50G7W	0.0	0.0					
E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data							
Hub2	14000.0 14500.0	l' l '	Linear and Circular	4M50G7W	71.0	40.5					
E50. Modu	lation and Service	es Digi	tal Video, Voice, a	nd Data							

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	"	E54/55. Range of Satellite Arc Eastern/Western Limit	A 71miith	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	Angle Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub2	Geostationary	11700.0 12200.0	50.0/143.0	102.8	9.8	220.4	42.4	0.0
	Geostationary	14000.0 14500.0	50.0/143.0	102.8	9.8	220.4	42.4	-5.5

REMOTE CONTROL POINT LOCATION	l .				
E61. Call Sign			E66.	Phone Numb	er
NOTE: Please enter the callsign of the control application is being filed.	lling station, not the callsign for	which this			
E62. Street Address					
E63. City	E68. County	,	E67/	68.	E64. Zip
			State /	e/Country	Code
	EARTH STATION And the state of	_	_		
		- Porus		, P (1011)	

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Location of Earth Station Sit	te									
E1: Site Identifier:	Irvine3	E5. Call Sign:								
E2: Contact Name	Geoff Darbyshire	E6. Phone Number:	949-273-68	800						
E3. Street:	2 Faraday	E7. City:	Irvine							
		E8. County:	Orange							
E4. State	4. State CA E9. Zip Code 92618									
E10. Area of Operation:	waii									
E11. Latitude:										
E12. Longitude:	117 ° 43 ' 19.1 " E									
E13. Lat/Lon Coordinates a	● NAD-83	o _{N/A}								
E14. Site Elevation (AMSL):	94.5 meters								
do(es) the proposed antenna (b) as demonstrated by the m	a(s) operate in the Fixed Satellite (s) comply with the antenna gain nanufacturer's qualification measure with two-degree spacing policy	patterns specified in Section 25 urement? If NO, provide as a te	5.209(a) and	●Yes ONO ON/A						
the Fixed Satellite Service (I	n(s) do not operate in the Fixed SerSS) with non-geostationary sate as specified in Section 25.209(a2) measurements?	llites, do(es) the proposed anter	ına(s) comply	o Yes o No o N/A						
E17. Is the facility operated control point.	o Yes o No									
E18. Is frequency coordination required? If YES, attach a frequency coordination report as										
			i							

E20. FA FAA no 854 and aviation FAILU	(ies AA otifi l/or n? RE) and plot Notificat cation is the FAA	ion - (S require 's stud	rdinationee 47 (ed, have y rega	CFR Pove yourding	Part 17 and attached attached the potent	d 47 a co	CFR popy of a	oart 2 com of th	25.113(pleted ne stru	c)) Wh FCC F cture to	ere Form	o Yes	● No
		COMMUN												
1		me:ALS	AT AI	LL AU	THOR	ZIZED U.S	. A	LSAT 1	If you	ı seleci	ed OTI	HER, p	olease enter	the
followin		non Name	j.						E22	ITU N	Jame:			
	E23. Orbit Location: E24. Country:													
Satellite	Satellite Name:GE-23 GE-23 172 E. L. If you selected OTHER, please enter the fol												wing:	
	E21. Common Name: E22. ITU Name:												<u> </u>	
E23. Or	23. Orbit Location: E24. Country:													
		COMMUN	VICATIO	N (Des	tinatio	n Points)								
	25. Site Identifier: 26. Common Name: E27. Country:													
ANTENN		ion Name	:							E27. C	ountry:			
Site ID		E28. ntenna Id	E29 Quan	9. E30. E31. Antenna Transm				42. Antenna Gain nint and/or Recieve dBi atGHz)						
Irvine3	Hu	b 3	1	ll ll	atriot <i>a</i> ystem	Antenna	2M	I38091	3.8		51.8	dBi at	11.950	
Irvine3	Hu	b 3	1	ll l	atriot <i>i</i> ystem	Antenna	2M	I38091	3.8		53.5	dBi at	14.250	
E28. Antenn Id	na	E33/3 Diamo Minor/N (mete	eter Major	Ab Gro Le	35. ove ound vel ters)	E36. Above Se Level (meters)		E37. Buildit Heigh Abov Groun Leve (meter	ng nt e nd l	In Pow ant fla	Total put er at enna nge atts)	out Maximum er at Antenna nna Height Above nge Rooftop		E40. Total EIRP for al carriers (dBW)
Hub 3	(0.0/0.0		14.9		109.4	9	.1		200.0		5.8		76.5
E28. Anteni		E43/ Freque Bands(1	ency	E45. T/R Mode	Po	6. Antenna blarization H,V,L,R)		E4 Emis Design	sion		B. Maxi EIRP p rrier(d	er	ERIP D	laximum ensity per lBW/4kHz)
Hub 3	11700.0 12200.0 R Linear and Circular 2M20G7W 0.0							0.0						
E50. Mo	odu	lation and	l Servic	es Dig	ital Vi	deo, Voice	, ar	d Data						
Hub 3 11700.0 R Linear and Circular 2M20G7W 0.0 0.0														
E50. Mo	odu		l Servic	es Dig	7	deo, Voice	, ar	d Data					1	
Hub 3	11700 0 Linear and													

E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data						
Hub 3	11700.0 12200.0	R	Linear and Circular	4M50G7W	0.0	0.0				
E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data						
Hub 3	14000.0 14500.0	Т	Linear and Circular	2M20G7W	66.9	39.5				
E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data						
Hub 3	14000.0 14500.0	Т	Linear and Circular	2M20G7W	66.9	39.5				
E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data						
Hub 3	14000.0 14500.0	Т	Linear and Circular	2M20G7W	66.9	39.5				
E50. Modu	lation and Servic	es Digi	tal Video, Voice, a	nd Data						
Hub 3 14000.0 T Linear and Circular 4M50G7W 70.0 39.5										
E50. Modu	E50. Modulation and Services Digital Video, Voice, and Data									

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc Eastern/Western Limit	I A 71miifn	Angle Fastern	E58. Earth Station Azimuth Angle Western Limit	Angle Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub 3	Geostationary	11700.0 12200.0	50.0/188.0	102.8	9.8	258.8	7.7	0.0
	Geostationary	14000.0 14500.0	50.0/188.0	102.8	9.8	258.8	7.7	-2.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Numb	er
NOTE: Please enter the callsign of the controlling station, rapplication is being filed.	not the callsign for which this		
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

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Location of Earth Station Site

E1: Site Identifier: Remote1 E5. Call Sign:

E2: Contact Name Geoff Darbyshire E6. Phone Number: 949-273-6800

E3. Street: E7. City:

E4. State E10. Area of Operation: E11. Latitude: 0 ° 0 ' 0.0 "	E8. County: E9. Zip Code CONUS, Alask	ca, and Ha	92618 awaii		
E12. Longitude: 0 ° 0 ' 0.0 "	ONAR 27		@ NAD 02		O NY / A
	O _{NAD-27}		●NAD-83		o _{N/A}
	0.0 meters				
E15. If the proposed antenna(s) operate in the Fixed Satellite S do(es) the proposed antenna(s) comply with the antenna gain p (b) as demonstrated by the manufacturer's qualification measur analysis showing compliance with two-degree spacing policy.	atterns specified i	n Section 25	5.209(a) and	● Yes ○	o _{No} o _{N/A}
E16. If the proposed antenna(s) do not operate in the Fixed Satthe Fixed Satellite Service (FSS) with non-geostationary satelli with the antenna gain patterns specified in Section 25.209(a2) a manufacturer's qualification measurements?	tes, do(es) the pro	posed anter	nna(s) comply	o _{Yes} o	No ●N/A
E17. Is the facility operated by remote control? If YES, provide control point.	e the location and	telephone n	umber of the	o Yes	• No
E18. Is frequency coordination required? If YES, att as	ach a frequenc	y coordina	ation report	o Yes	● No
E19. Is coordination with another country required? country(ies) and plot of coordination contours as	If YES, attach	the name	of the	o Yes	• No
E20. FAA Notification - (See 47 CFR Part 17 and FAA notification is required, have you attached a 854 and/or the FAA's study regarding the potenti aviation? FAILURE TO COMPLY WITH 47 CFR PARTS THE RETURN OF THIS APPLICATION.	copy of a con al hazard of the	npleted Fo	CC Form ire to	o Yes	● No
POINTS OF COMMUNICATION			·		
Satellite Name:SATMEX-5 SATMEX-5 116.8 W	.L. If you selec	ted OTHI	ER, please er	nter the fo	llowing:
E21. Common Name:	E22	. ITU Naı	ne:		
E23. Orbit Location:	E24	. Country	:		
Satellite Name: TELSTAR 11N USASAT26A 37 following:	55 W.L. If you	selected (OTHER, plea	ase enter t	he
E21. Common Name:	E22	. ITU Naı	ne:		
E23. Orbit Location:	E24	. Country	:		
Satellite Name:NSS-7 NSS-7 22 W.L. If you select	rted OTHER r	olease ente	er the followi	ng.	
E21. Common Name:		2. ITU Nai			
E23. Orbit Location:		. Country			
					41
Satellite Name:ALSAT ALL AUTHORIZED U.S. following:				ease enter	tne
E21. Common Name:	E22	. ITU Nai	ne:		
E23. Orbit Location:	E24	. Country	:		
POINTS OF COMMUNICATION (Destination Points)		 I			
E25. Site Identifier:		 			
E26. Common Name:		E27. Cou	ntry:		
ANTENNA					
E28.		E32.	E41/42	2. Antenn	a Gain

Site ID	Antenna Id	II	29. intity		E30. ufacturer	E31. Model	II .	tenna Size	Т		nint and/d lBi at	or Recieve GHz)	
Remote1	R10	200	ll ll	Patrio Sys.	t Antenna	100KUG	1.0		40.2	dBi at	11.950		
Remote1	R10	200	ll ll	Patriot Sys.	t Antenna	100KUG	1.0		41.9	41.9 dBi at 14.250			
E28. Antenna Id	E33/3 Diame Minor/M (meter	ter Iajor	E3 Abo Gro Lev (met	ove und vel	E36. Above Sea Level (meters)	E37. Buildin Heigh Abov Groun Level	ng it e id I	E38. T Inpu Power anten flang (Wat	it r at ina ge	Maximum Antenna Height Above Rooftop (meters)		E40. Total EIRP for al carriers (dBW)	
R10	0.0/0.0		1.5		0.0	0.0		3.0		0.0		46.7	
FREQUEN	1	1		1		1					1		
E28. Antenna Id	E43/4 Freque Bands(M	ncy	E45. T/R Mode	Po	6. Antenna larization H,V,L,R)	E4' Emis	sion	E	RP p			E49. Maximum ERIP Density per Carrier(dBW/4kHz)	
R10	11700.0 12200.0	·	R	Linea Circu	ar and ılar	2M20G	7W	0.0	<u> </u>	<u> </u>	0.0		
E50. Mod	lulation and	Servic	es Digi	ital Vi	deo, Voice,	and Data							
R10	11700.0 12200.0		R	Linea Circu	ar and ılar	4M50G	7 W	0.0			0.0		
E50. Mod	lulation and	Servic	es Digi	ital Vi	deo, Voice,	and Data							
R10	14000.0 14500.0		Т	Linea Circu	ar and ılar	2M20G	7W	46.7			19.3		
E50. Mod	lulation and	Servic	es Digi	ital Vi	deo, Voice,	and Data							
R10	14000.0 14500.0		Т	Linea Circu	ar and ılar	4M50G	7W	46.7	7 16.2				
	lulation and			ital Vi	deo, Voice,	and Data							
FREQUEN	CY COORDI	NATIO	N			<u> </u>		1			11		
F28		E	52/53.	E5	4/55. Rang	E56. Earth	ı	E57. ntenna	E5 Ear	th 📗	E59. Antenna	E60. Maximum	

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	Angle Factorn	E58. Earth Station Azimuth Angle Western Limit	Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
R10	Geostationary	11700.0 12200.0	22.0/143.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000.0 14500.0	22.0/143.0	0.0	5.0	0.0	5.0	-9.0

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.	
E62. Street Address	,

E63. City	E68. County	E67/68.	E64. Zip
·		State/Country	Code
		/	

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FCCF	orm 312 - Schedule B	o:(Technical and Ope	i auonai Desci	ipuon <i>)</i>
	FOR C	OFFICIAL USE ONLY		
Location of Earth Station	Site			
E1: Site Identifier:	Remote2	E5. Call Sign:		
E2: Contact Name	Geoff Darbyshire	E6. Phone Number:	949-273-68	300
E3. Street:		E7. City:		
E4. State		E8. County: E9. Zip Code		
E10. Area of Operation:		CONUS, Alaska, an	d Hawaii	
E11. Latitude:	0 ° 0 ' 0.0 "	COIVOS, Maska, an	a Hawan	
E12. Longitude:	0 ° 0 ' 0.0 "			
E13. Lat/Lon Coordinates		o _{NAD-27}	●NAD-83	o _{N/A}
E14. Site Elevation (AMS		0.0 meters	- 1 (11) -03	- 14/11
do(es) the proposed antenu (b) as demonstrated by the analysis showing complian E16. If the proposed antenu the Fixed Satellite Service	ana(s) operate in the Fixed Sate ma(s) comply with the antenna manufacturer's qualification rance with two-degree spacing poina(s) do not operate in the Fix (FSS) with non-geostationary terns specified in Section 25.20	gain patterns specified in Secti neasurement? If NO, provide a policy. ed Satellite Service (FSS), or is satellites, do(es) the proposed	on 25.209(a) and as a technical f they operate in antenna(s) comply	Yes ○No ○N/AYes ○No ●N/A
manufacturer's qualification	on measurements?			
E17. Is the facility operate control point.	d by remote control? If YES, I	provide the location and teleph	one number of the	o Yes ● No
E18. Is frequency coo as	rdination required? If YE	S, attach a frequency coo	rdination report	o Yes • No
	with another country required coordination contours a		ame of the	o _{Yes} • _{No}
E20. FAA Notification FAA notification is r 854 and/or the FAA' aviation? FAILURE TO COM THE RETURN OF	on - (See 47 CFR Part 17 required, have you attack s study regarding the postPLY WITH 47 CFR PATHIS APPLICATION.	and 47 CFR part 25.11 hed a copy of a complete tential hazard of the str	ed FCC Form ructure to	o Yes ⊗ No
POINTS OF COMMUNI				
Satellite Name:TELS' following:	TAR 11N USASAT26A	37.55 W.L. If you selec	ted OTHER, plea	ase enter the
E21. Common Name:		E22. ITU	Name:	
E23. Orbit Location:		E24. Cou	intry:	
Satellite Name:SATM	1EX-5 SATMEX-5 116	5.8 W.L. If you selected C	THER, please er	nter the following:
E21. Common Name:		E22. ITU		<u> </u>
E23. Orbit Location:		E24. Cou		
		I	-	

	Name:NSS-7 nmon Name:	1 - 1.0 %	, , , ===	. ,,,,_,	11 3 0 0 00100	100 0 111		ITU Na		10110 /	,	
	it Location:						E24. Country:					
Satellite	Name:ALSA	T AI	LL AU	THOR	IZED U.S.	ALSAT				HER, p	olease ente	r the
following	g:						, ·					
	nmon Name:						-	ITU Na				
	it Location: F COMMUNIO	CATIC	N (Dog	tination	Doints)		E24.	Countr	<u>y:</u>			
	Identifier:	CATIC	JN (Des	шашог	i Polits)							
E26. Con	nmon Name:							E27. Co	untry:			
ANTENNA	\ 			ı					ı			
Site ID	E28. Antenna Id	I	29. ntity		E30. ufacturer	E31. Model	Ant	232. tenna Size	II	ransm	2. Antenn int and/or lBi at	
Remote2	R12	200		Prode Corpo	lin ration	1123	1.2		41.7	41.7 dBi at 11.950		
Remote2	R12	200		Prode Corpo	lin ration	1123	1.2		43.2 (43.2 dBi at 14.250		
E28. Antenna Id	E33/34 Diamet Minor/M (meters	er ajor	Ab Gro Le	35. ove ound vel ters)	E36. Above Sea Level (meters)	E37 Build Heig Abo Grou Lev (mete	ing ht ve nd el	E38. Inp Powe anter flan (Wa	out er at nna ige	ut Maximum r at Antenna nna Height Above ge Rooftop		E40. Total EIRP for al carriers (dBW)
R12	0.0/0.0		1.8		0.0	0.0		3.0		0.0		48.0
FREQUEN E28. Antenna Id	E43/44	ıcy	E45. T/R Mode	Po	6. Antenna larization H,V,L,R)	Emi	47. ssion gnator	E	. Maxi IRP p		ERIP D	Iaximum Jensity per dBW/4kHz)
R12	11700.0 12200.0		R	Linea Circu	ar and ılar	2M200	37W	0.0			0.0	
E50. Mod	dulation and S	Servic	es Dig	ital Vi	deo, Voice,	and Data					1	
R12	11700.0 12200.0		R	Linea Circu	ar and ılar	4M500	37W	0.0			0.0	
E50. Mod	dulation and S	Servic	es Dig	7		and Data					1	
R12	14000.0 14500.0		Т	Linea Circu	ar and ılar	2M200	37W	48.0			20.6	
E50. Mod	dulation and S	Servic	es Dig			and Data		11			1	
R12	14000.0 14500.0		Т	Circu		4M500		48.0			17.5	
	dulation and S			ital Vi	deo, Voice,	and Data						
FREQUEN	CY COORDIN	NATIO	<u> N</u>						1			
E28. Antenna	E51. Satelli	III .	52/53. equenc		4/55. Rang Satellite Ar		h on A	E57. Intenna		rth ion A	E59. Antenna	E60. Maximum EIRP Density

Id	Orbit Type	Limits (MHz)	Eastern/Western Limit		Angle Eastern Limit		Western	
R12	Geostationary	11700.0 12200.0	50.0/143.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000.0 14500.0	50.0/143.0	0.0	5.0	0.0	5.0	-9.0

		12200.0	<u> </u>	J				JL	
	Geostationary	14000.0 14500.0	50.0/143.0	0.0	5.0	0.0	5.0	-9.0	
REMOTE (CONTROL POI	NT LOCATIO	ON						
		ign of the cont	rolling station, not the	callsign for	which this	E66.	. Phone Numb	oer	
E62. Street						JL			
E63. City				E68. County			//68. e/Country	E64 Cod	
			E EARTH STA chedule B:(Tech FOR OFFICI	nnical an	d Operati				
Location of	Earth Station Sit	e							
E1: Site Ide	entifier:	Remote3	E5.	Call Sign:					
E2: Contac	t Name	Geoff Darb	yshire E6.	Phone Num	iber:	949-273	3-6800		
E3. Street:			E7.	City:					
				County:					
E4. State				Zip Code					
	of Operation:		CC)NUS, Ala	iska, and H	awaii			
E11. Latitu		0 ° 0 ' 0.0 "							
E12. Longi		0 ° 0 ' 0.0 "	_			_		_	
E13. Lat/L	on Coordinates ar	e:	0	NAD-27		NAD)-83	\circ_{N}	I/A
E14. Site E	Elevation (AMSL)	:	0.0) meters					
do(es) the p (b) as demo	proposed antenna(ponstrated by the m	s) comply with anufacturer's q	he Fixed Satellite Serva the antenna gain patte qualification measurem ree spacing policy.	erns specified	d in Section 2	5.209(a) an		o _{No}	o _{N/A}
the Fixed Sawith the ant	atellite Service (F	SS) with non-s s specified in S	ate in the Fixed Satelli geostationary satellites Section 25.209(a2) and ?	, do(es) the p	proposed ante	nna(s) com		o _{No}	● N/A
E17. Is the control poir		by remote cont	rol? If YES, provide th	e location ar	nd telephone	number of t	he o Yes	•	No
E18. Is fro	equency coord	ination requi	ired? If YES, attac	h a frequer	ncy coordin	ation repo	ort o Yes	•	No
II .	oordination wit es) and plot of		ountry required? If a contours as	YES, attac	h the name	of the	o _{Yes}	•	No
II .			FR Part 17 and 47 you attached a co	_			n		

854 and/or the FAA's study regarding the potential hazard of the structure to o Yes No aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION. POINTS OF COMMUNICATION Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following: E21. Common Name: E22. ITU Name: E23. Orbit Location: E24. Country: Satellite Name: TELSTAR 11N | USASAT26A | 37.55 W.L. If you selected OTHER, please enter the following: E21. Common Name: E22. ITU Name: E23. Orbit Location: E24. Country: Satellite Name:SATMEX-5 | SATMEX-5 | 116.8 W.L. If you selected OTHER, please enter the following: E22. ITU Name: E21. Common Name: E23. Orbit Location: E24. Country: Satellite Name: NSS-7 | NSS-7 | 22 W.L. If you selected OTHER, please enter the following: E22. ITU Name: E21. Common Name: E24. Country: E23. Orbit Location: POINTS OF COMMUNICATION (Destination Points) E25. Site Identifier: E26. Common Name: E27. Country: ANTENNA E32. E41/42. Antenna Gain E28. E29. E30. E31. Site ID Antenna Transmint and/or Recieve Model Antenna Id| Quantity Manufacturer **Size** dBi at GHz) Prodelin Remote3 R18 50 1184 1.8 45.0 dBi at 11.950 Corporation Prodelin 50 Remote3 R18 1184 1.8 46.5 dBi at 14.250 Corporation E37. E38. Total E39. E35. **Building** E33/34. E36. Input Maximum E40. Total E28. Above Height **Diameter** Above Sea Power at Antenna **EIRP** for Ground Above Antenna Minor/Major Level antenna **Height Above** al carriers Ground Id Level (meters) (meters) flange Rooftop (dBW) (meters) Level (Watts) (meters) (meters) 0.0/0.02.1 0.0 0.0 4.0 0.0 52.5 R18 FREQUENCY E28. E43/44. E45. E46. Antenna E47. E48. Maximum E49. Maximum Antenna Frequency T/R **Polarization Emission** EIRP per **ERIP Density per** Carrier(dBW/4kHz) Bands(MHz) Mode (H,V,L,R)**Designator** Carrier(dBW) Id

2M20G7W

0.0

0.0

Linear and

Circular

Linear and

R

E50. Modulation and Services Digital Video, Voice, and Data

11700.0

12200.0

11700.0

R18

R18	12200.0	R	Circular	4M50G7W	0.0	0.0				
E50. M	E50. Modulation and Services Digital Video, Voice, and Data									
R18	14000.0 14500.0	Т	Linear and Circular	2M20G7W	52.5	25.1				
E50. M	odulation and Se	rvices Di	gital Video, Voic	e, and Data						
R18	14000.0 14500.0	Т	Linear and Circular	4M50G7W	52.5	22.0				
E50. M	E50. Modulation and Services Digital Video, Voice, and Data									

E28. Antenna Id	E51. Satellite Orbit Type	1 - "I	E54/55. Range of Satellite Arc Eastern/Western Limit	A 71miifn	Angle Eastern	Station	Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
R18	Geostationary	11700.0 12200.0	50.0/143.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14400.0 14500.0	50.0/143.0	0.0	5.0	0.0	5.0	-7.8

REMOTE CONTROL POINT LOCATION

E61. Call Sign						
NOTE: Please enter the callsign of the controlling station, not the application is being filed.						
E62. Street Address						
E63. City	E68. County		E64. Zip Code			

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY

Location of Earth Sta	tion Site								
E1: Site Identifier:	Jacksonville2	E5. Call Sign:							
E2: Contact Name	Andrew Mametz	E6. Phone Number:	904-279-1777						
E3. Street:	4905 Belfort Road, Ste 145	E7. City: Jacksonvi							
		E8. County:	Duval						
E4. State	FL	E9. Zip Code	32256						
E10. Area of Operation	on:	CONUS, Alaska, and Hawaii							
E11. Latitude:	30 ° 14 ' 44.0 " N								
E12. Longitude:	81 ° 34 ' 53.0 " W								
E13. Lat/Lon Coordin	nates are:	o _{NAD-27}	● NAD-83	o _{N/A}					
E14. Site Elevation (A	AMSL):	4.0 meters							
E15. If the proposed a	E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites,								

(b) as demonstr	ated by the man	ufacturer's qua	he antenna gain pa alification measure e spacing policy.					● Yes C	No O _{N/A}
the Fixed Satel with the antenn	ite Service (FSS) with non-ge- pecified in Se	e in the Fixed Sate ostationary satelli ction 25.209(a2) a	tes, do(es) t	he proj	posed antenna		o _{Yes} c	No ⊗N/A
E17. Is the faci control point.	lity operated by	remote contro	1? If YES, provide	the locatio	n and t	telephone nur	nber of the	o Yes	• No
E18. Is frequas	ency coordina	ation require	ed? If YES, atta	ach a freq	uency	/ coordinati	on report	o Yes	No
	lination with a		ntry required?	If YES, at	tach t	the name of	f the	o Yes	No
FAA notific 854 and/or t aviation? FAILURE T	ation is requi he FAA's stu	red, have y dy regardi WITH 47	R Part 17 and you attached a ng the potenti CFR PARTS	copy of a	com of th	pleted FC ne structur	C Form e to	o Yes	● No
POINTS OF C	OMMUNICAT	ION							
Satellite Nar following:	ne:TELSTAR	11N USA	SAT26A 37.5	55 W.L. II	you	selected O	ΓHER, pl	ease enter t	the
E21. Commo	on Name:				E22.	. ITU Name	e:		
E23. Orbit L	ocation:				E24.	. Country:			
Satellite Nar following:	ne:ALSAT A	ALL AUTH	ORIZED U.S.	ALSAT	If you	u selected (OTHER, p	olease enter	the
E21. Commo	on Name:				E22.	. ITU Name	e:		
E23. Orbit L	ocation:				E24.	. Country:			
POINTS OF C	OMMUNICAT	ION (Destina	tion Points)			-			
E25. Site Ide									
E26. Commo	on Name:					E27. Coun	try:		
ANTENNA	F20		1			F22	E 44	40 4 4	<u> </u>
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufactur	er E31 Mod	. 11	E32. Antenna Size	1	42. Anteni mint and/o dBi at	na Gain or Recieve GHz)
Jacksonville	2 Hub4	1	Shaanxi Probecom	K45T	4.	5	53.2 dBi	at 11.950	
Jacksonville	2 Hub4	1	Shaanxi Probecom	K45T	4.	5	54.5 dBi	at 14.250	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters	d Above Sea Level	E37 Buildi Heigl Abov Grou Leve (mete	ng ht ve nd el	E38. Tot Input Power a antenna flange (Watts)	nt Ai A Heig R	E39. nximum ntenna ht Above ooftop neters)	E40. Total EIRP for al carriers (dBW)
Hub4 0.	0/0.0	5.5	9.5	0.0		50.0	0.0		71.5
FREQUENCY								1	

Antenna Id	Frequency Bands(MHz)	T/R Mode	Polarization (H,V,L,R)	Emission Designator	EIRP per Carrier(dBW)	ERIP Density per Carrier(dBW/4kHz)	
Hub4	11700.0 12200.0	R	Linear and Circular	2M20G7W	0.0	0.0	
E50. Modulation and Services Digital Video, Voice, and Data							
Hub4	11700.0 12200.0	R	Linear and Circular	4M50G7W	0.0	0.0	
E50. Modu	lation and Servic	es Digi	tal Video, Voice, ar	nd Data			
Hub4	14000.0 14500.0	Т	Linear and Circular	2M20G7W	67.9	40.5	
E50. Modu	lation and Servic	es Digi	tal Video, Voice, ar	nd Data			
Hub4	14000.0 14500.0	Т	Linear and Circular	4M50G7W	71.0	40.5	
E50. Modu	lation and Servic	es Digi	tal Video, Voice, ar	nd Data			

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc Eastern/Western Limit	A 71miith	Angle Eastern	E58. Earth Station Azimuth Angle Western Limit	Angle Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub4	Geostationary	11700.0 12200.0	22.0/143.0	106.5	17.7	254.7	16.1	0.0
	Geostationary	14000.0 14500.0	22.0/143.0	106.5	17.7	254.7	16.1	-12.1

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Numb	E66. Phone Number		
NOTE: Please enter the callsign of the controlli application is being filed.				
E62. Street Address				
E63. City	E68. County	E67/68. State/Country	E64. Zip Code	

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: Remote4 E5. Call Sign:

E2: Contact Name Geoff Darbyshire E6. Phone Number: 949-273-6800

E3. Street: E7. City:

E4. State E8. County: E9. Zip Code

E10. Area of Operation:		Maritime - Atl	antic and Pacific Ocear	18			
E11. Latitude:	$0^{\circ}0$ ' 0.0 "						
E12. Longitude:	$0~^{\circ}~0~^{\prime}~0.0~^{\prime\prime}$						
E13. Lat/Lon Coordinates a	re:	○NAD-27	◎ NAD-83	o _{N/A}			
E14. Site Elevation (AMSL)):	0.0 meters					
do(es) the proposed antenna (b) as demonstrated by the m	a(s) operate in the Fixed Satellite (s) comply with the antenna gain nanufacturer's qualification meas e with two-degree spacing policy	n patterns specified surement? If NO, pr	in Section 25.209(a) and	●Yes ONO ON/A			
the Fixed Satellite Service (I	a(s) do not operate in the Fixed S FSS) with non-geostationary sate as specified in Section 25.209(a2 measurements?	ellites, do(es) the pr	oposed antenna(s) comply	o _{Yes} o _{No} ⊛ _{N/A}			
E17. Is the facility operated control point.	I telephone number of the	o Yes • No					
E18. Is frequency coord as	ey coordination report	o Yes • No					
E19. Is coordination wit country(ies) and plot of	the name of the	o Yes ● No					
E20. FAA Notification FAA notification is rec 854 and/or the FAA's saviation? FAILURE TO COMP	O Yes ● No						
POINTS OF COMMUNICATION	ATION						
Satellite Name: ALSAT following:	' ALL AUTHORIZED U.S	S. ALSAT If yo	ou selected OTHER, pl	ease enter the			
E21. Common Name:		E22	2. ITU Name:				
E23. Orbit Location:		E24	4. Country:				
Satellite Name:SATME	EX-5 SATMEX-5 116.8 V	W.L. If you sele	cted OTHER, please er	nter the following:			
E21. Common Name:		E22. ITU Name:					
E23. Orbit Location:		E24	4. Country:				
Satellite Name:GE-23	GE-23 172 E. L. If you se	elected OTHER,	please enter the follow	ving:			
E21. Common Name:		E2	2. ITU Name:				
E23. Orbit Location:		E24	4. Country:				
Satellite Name:ALSAT following:	' ALL AUTHORIZED U.S	S. ALSAT If yo	ou selected OTHER, pl	ease enter the			
E21. Common Name:		E2:	2. ITU Name:				
E23. Orbit Location: E24. Country:							
Satellite Name:NSS-7	NSS-7 22 W.L. If you sel	lected OTHER,	please enter the following	ing:			
E21. Common Name:		E2:	2. ITU Name:				
E23. Orbit Location:		E24	4. Country:				
Satellite Name:TELSTA following:	AR 11N USASAT26A 3'	7.55 W.L. If you	ı selected OTHER, plea	ase enter the			
E21. Common Name:		E22	2. ITU Name:				

E23. Orb	23. Orbit Location: E24. Country:													
POINTS O	POINTS OF COMMUNICATION (Destination Points)													
E25. Site	Identifier:													
E26. Con	E26. Common Name: E27. Country:													
ANTENNA			1					1			1			
Site ID	E28. Antenna Id		29. ntity		E30. ufacturer		E31. Model	Antonno		T		/42. Anten smint and/ _dBi at	na Gain or Recieve GHz)	
Remote4	R19	150		SeaTe	1	40	06RZA	1.0	0		39.0	dBi	at 12.50	
Remote4	R19	150		SeaTe	1	40	06RZA	1.0	0		40.0	dBi	at 14.00	
E28. Antenna Id	E33/34 Diamet Minor/M (meter	er ajor	E3 Abo Gro Le (met	ove und vel	E36. Above Sea Level (meters)	1	E37. Buildin Heigh Above Groun Level (meters	t e d		E38. T Inpu Power anten flang (Wat	it r at ina ge	Hei	E39. Iaximum Antenna ight Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)
R19	0.0/0.0		5.5		20.0	0	.0		8.	.0		0.0		52.0
FREQUENCY														
E28. Antenna Id	E43/44 Frequer Bands(M	ıcy	E45. T/R Mode	Po	6. Antenna larization H,V,L,R)	Emission EIRP per ERI		ERIP	P. Maximum P Density per er(dBW/4kHz)					
R19	11700.0 12200.0		R	Linea Circu	ar and ılar		2M20G7	7W	r	0.0			0.0	
E50. Mod	lulation and S	Servic	es Digi	ital Vi	deo, Voice,	an	d Data							
R19	11700.0 12200.0		R	Linea Circu	ar and ılar		4M50G7W 0.0		0.0					
E50. Mod	lulation and S	Servic	es Digi	ital Vi	deo, Voice,	an	d Data							
R19	14000.0 14500.0		Т	Linea Circu	ar and ılar		2M20G7W 46.7			19.3				
E50. Mod	lulation and S	Servic	es Digi	ital Vi	deo, Voice,	an	d Data							
R19	14000.0 14500.0		Т	Linea Circu	ar and ılar		4M50G7	7W	r	46.7			16.2	
E50. Mod	lulation and S	Servic	es Digi	ital Vi	deo, Voice,	an	d Data							
FREQUEN	CY COORDIN	NATIO	N	11			11	11						
E28. Antenna Id	E51. Satelli Orbit Type	te Fre	52/53. equenc imits MHz)	y of S	4/55. Rang Satellite Ar tern/Weste Limit	rc	E56. Earth Station Azimut Angle Easter Limit	n th n	Ant Elev An Eas	257. tenna vation ngle stern imit	E5 Ear Stat Azim Ang West Lin	rth ion nuth gle tern	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz
R19	Geostationa	* X 7	700.0 200.0	22.0	/143.0		0.0		5.0		0.0		5.0	0.0
	Geostationa	* X 7 II	0.000	22.0	/143.0		0.0		5.0		0.0		5.3	-9.0

http://licensing.fcc.gov/ibfsweb/ib.page.FetchForm?id_app_num=87593&form=P015_101... 5/14/2010

REMOTE CONTROL POINT LOCATION

E61. Call Sign

E66. Phone Number

1			I			
	lsign of the controlling station	n, not the callsign for whi	ich this			
application is being filed. E62. Street Address						
E63. City		E68. County	E67/68		E64. Zip	
,			State/C	ountry	Code	
	SATELLITE EARTI	H STATION AU	THORIZATIONS	<u> </u>	_	
	orm 312 - Schedule B					
	FOR C	OFFICIAL USE ON	LY			
Location of Earth Station S E1: Site Identifier:	ite Remote5	E5. Call Sign:				
E2: Contact Name	Geoff Darbyshire	E6. Phone Number	r: 949-273-6	800		
E3. Street:	Geon Darbysinic	E7. City:	. 747-213-0	000		
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operation:		Maritime - Atla	ntic and Pacific Ocea	an		
E11. Latitude:	0 ° 0 ' 0.0 "					
E12. Longitude:	0 ° 0 ' 0.0 "	0	6	_	^	
E13. Lat/Lon Coordinates		o _{NAD-27}	◎ NAD-83	3	o _{N/A}	
E14. Site Elevation (AMSI	L):	0.0 meters				
do(es) the proposed antenna (b) as demonstrated by the	a(s) operate in the Fixed Sate a(s) comply with the antenna manufacturer's qualification n ce with two-degree spacing po	gain patterns specified in neasurement? If NO, pro-	Section 25.209(a) and	● Yes ○	No ON/A	
the Fixed Satellite Service	na(s) do not operate in the Fixe (FSS) with non-geostationary rns specified in Section 25.209 in measurements?	satellites, do(es) the prop	posed antenna(s) comply	o _{Yes} o	No ●N/A	
E17. Is the facility operated control point.	by remote control? If YES, p	provide the location and t	elephone number of the	o Yes	● No	
E18. Is frequency coor as	dination required? If YE	S, attach a frequency	coordination report	o Yes	● No	
	ith another country requi		he name of the	o Yes	● 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.						
POINTS OF COMMUNIC	CATION					
Satellite Name:SATM	EX-5 SATMEX-5 116	5.8 W.L. If you select	ted OTHER, please e	nter the fo	llowing:	
E21. Common Name:			ITU Name:			
E23. Orbit Location:		E24.	Country:			
			<u> </u>			

	Satellite Name:TELSTAR 11N USASAT26A 37.55 W.L. If you selected OTHER, please enter the following:												
	mon Name:						E22.	E22. ITU Name:					
E23. Orbi	t Location:						E24. Country:						
Satellite N	Satellite Name: NSS-7 NSS-7 22 W.L. If you selected OTHER, please enter the following:												
E21. Com	mon Name:						E22.	ITU Na	ame:				
E23. Orbit Location:								E24. Country:					
Satellite Name:GE-23 GE-23 172 E. L. If you selected OTHER, please enter the following:													
E21. Com	mon Name:						E22. ITU Name:						
E23. Orbi	t Location:						E24.	Countr	y:				
	F COMMUNIO	CATIO	N (Des	tinatior	n Points)								
E25. Site													
E26. Com	mon Name:							E27. Co	untry:				
ANTENNA													
	E28. Antenna Id		29. ntity		E30. ufacturer	urer E31. Model		32. tenna ize		ransm	2. Antenna int and/or Bi at		
Remote5		150		SeaTe	:1	2406	0.6		34.0 dBi at 11.9500				
Remote5	R20	150		SeaTe	1	2406	0.6		36.0 d	Bi at 1	14.2500		
E28. Antenna Id	Diamet Minor/M	Diameter Ground Level (meters) Above Sea Level (meters) Above Sea Level (meters)		Build	ing ght ve ind el	ng Inp nt Powe anter nd flan (Was		out Maximu er at Antenn nna Height Ab ge Rooftoj		E40. Total EIRP for al carriers (dBW)			
R20	0.0/0.0		5.5		20.0	0.0		8.0		0.0		52.0	
FREQUEN	CY					•							
E28. Antenna Id	E43/44 Frequer Bands(M	ıcy	E45. T/R Mode	Po	6. Antenna larization H,V,L,R)	Emi	47. ission gnator	E	Maxi IRP p rier(d	er	E49. Maximum ERIP Density per Carrier(dBW/4kHz)		
R20	11700 122	0.00	R	Linea Circu	ar and ılar	4M500	37W	0.0			0.0		
E50. Mod	ulation and S	Servic	es Digi	ital Vi	deo, Voice,	and Data	l						
R20	11700.0 12200.0		R	Linea Circu	ar and ılar	2M200	37W	0.0			0.0		
E50. Mod	ulation and S	Servic	es Dig	ital Vi	deo, Voice,	and Data	ļ	·					
R20	14000.0 14500.0		Т	Linea Circu	ar and ılar	2M200	37W	46.7			19.3		
E50. Mod	E50. Modulation and Services Digital Video, Voice, and Data												
R20	14000 0 Linear and					4M500	4M50G7W 46.7 16.2						
E50. Mod	E50. Modulation and Services Digital Video, Voice, and Data												
FREQUENCY COORDINATION													
						E50 Ear	ll ll	E57.	E5 Ear	- 11	E59.	E60. Maximum	

E28. Antenna Id	E51. Satellite Orbit Type		E54/55. Range of Satellite Arc Eastern/Western Limit	Azimuth	Angle	Azimuth Angle	Elevation Angle Western	toward the
R20	Geostationary	11700.0 12200.0	22.0/143.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000.0 14500.0	22.0/143.0	0.0	5.0	0.0	5.0	-9.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the application is being filed.				
E62. Street Address				
E63. City]		E64. Zip Code	

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description)

FOR OFFICIAL USE ONLY								
Location of Earth Station Si	ite							
E1: Site Identifier:	Remote6	E5. Call Sign:						
E2: Contact Name	Geoff Darbyshire	E6. Phone Number:	949-273-68	800				
E3. Street:		E7. City:	City:					
		E8. County:						
E4. State		E9. Zip Code						
E10. Area of Operation:		Maritime - Atlantic and	Pacific Ocea	n				
E11. Latitude:	0 ° 0 ' 0.0 "							
E12. Longitude:	$0^{\circ}0$ ' 0.0 "							
E13. Lat/Lon Coordinates a	nre:	o _{NAD-27}	◎ NAD-83	$\circ_{N/A}$				
E14. Site Elevation (AMSL	<i>a</i>):	0.0 meters						
E15. If the proposed antenna do(es) the proposed antenna (b) as demonstrated by the ranalysis showing compliance	25.209(a) and	• Yes ONO ON/A						
the Fixed Satellite Service (a(s) do not operate in the Fixed S FSS) with non-geostationary sate ns specified in Section 25.209(a2 measurements?	ellites, do(es) the proposed ante	enna(s) comply	oyes ono on/A				
E17. Is the facility operated control point.	number of the	O Yes ● No						
E18. Is frequency coordas	nation report	o Yes • No						
E19. Is coordination wi country(ies) and plot of	e of the	o Yes • 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?

o Yes • No

52.0

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS	\mathbf{OF}	CON	IMIINI	ICATION
runis.	()r	1.1.11	IVILIA	IL A I ILDIN

1 011/15 01 001/11/10/11/10/1							
Satellite Name:NSS-7 NSS-7 22 W.L. If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
Satellite Name:TELSTAR 11N USASAT26A 37.55 W.L. If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
Satellite Name:SATMEX-5 SATMEX-5 116.8 W.L. If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
Satellite Name:GE-23 GE-23 172 E. L. If you selected OTH	ER, please enter the following:						
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
POINTS OF COMMUNICATION (Destination Points)							
E25. Site Identifier:							

ANTENNA

E26. Common Name:

Site ID	E28. Antenna Id	E29. Quantit	y Mar	E30. nufacturer	E31. Model	Ant	32. tenna size	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)		
Remote6	R21	150	SeaT	el	6009	1.5		45.0 d	lBi at 11.9500	
Remote6	R21	150	SeaTe	el	6009	1.5		45.1 d	lBi at 14.2500	
E28. Antenna Id	E33/34 Diamet Minor/M (meters	er ajor	E35. Above Fround Level meters)	E36. Above Sea Level (meters)	Build Heig Abo Grou Lev (mete	ing tht ve ind el	E38. Inp Power anter flan (Wa	out er at nna ige	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers (dBW)

E27. Country:

8.0

0.0

FREQUENCY

R21

0.0/0.0

5.5

20.0

E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. Antenna Polarization (H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier(dBW)	E49. Maximum ERIP Density per Carrier(dBW/4kHz)		
R21	11700.0 12200.0	IIV I	Linear and Circular	2M20G7W	0.0	0.0		
E50. Modulation and Services Digital Video, Voice, and Data								
R21	11700.0 12200.0	IK I	Linear and Circular	4M50G7W	0.0	0.0		

0.0

E50. Mod	ulation and Service	ces Digi	tal Video, Voice, a	nd Data			
R21	14000.0 14500.0	II. I .	Linear and Circular	2M20G7W	46.7	19.3	
E50. Modulation and Services Digital Video, Voice, and Data							
R21	14000.0 14500.0	Т	Linear and Circular	4M50G7W	46.7	16.2	
E50. Mod	lulation and Service	ces Digi	tal Video, Voice, a	nd Data			

E28. Antenna Id	E51. Satellite Orbit Type	1 - "I	E54/55. Range of Satellite Arc Eastern/Western Limit	A 71miith	Angle Eastern	E58. Earth Station Azimuth Angle Western Limit	Aligie Western	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
R21	Geostationary	11700.0 12200.0	22.0/143.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000.0 14500.0	22.0/143.0	0.0	5.0	0.0	5.0	-9.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Numb	oer
NOTE: Please enter the callsign of the controlling station, application is being filed.	not the callsign for which this		
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

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Attachment A Description of Application (Response to Question 43)

STM Networks Inc. ("STM") hereby requests authority to modify its VSAT blanket earth station license, E70026, as described herein.

STM requests authority for the following modifications:

1. Modification to Site Location Jacksonville1 (Site ID No. 4 on license)

- Change Point of Communication from SATMEX-5 to NSS-7 (Point of Communication No. 7 on license)
- No change to Jacksonville1 site information (Site Location No. 4 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 8 on license)
- No change to Jacksonville1, Hub 1 antenna information (Antenna Facilities No. 1 on license)
- No change in Hub 1 frequencies (Particulars of Operations Nos. 1-4 on license)
- No change in Hub 1 frequency coordination (Frequency Coordination Nos. 7-8 on license)

2. Modification to Site Location Irvine2 (Site ID No. 1 on license)

- Delete Hub 2 frequencies with Emission 2M20G7W (Particulars of Operations Nos. 6&8 on license)
- Change Irvine2, Hub 2 antenna from Shaanxi Probecom to Andrew (Antenna Facilities No. 2 on license)
- No change to Irvine2 site information (Site Location No. 1 on license)
- No change to SATMEX-5 Point of Communication (Point of Communication No. 1 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 2 on license)
- No change to Hub 2 frequencies with Emission 4M50G7W (Particulars of Operations Nos. 5&7 on license)
- No change in Hub 2 frequency coordination (Frequency Coordination Nos. 1-2 on license)

3. Modification to Site Location Irvine3 (Site ID No. 2 on license)

- Change Point of Communication from SATMEX-5 to GE-23 (Point of Communication No. 3 on license)
- Change Irvine3, Hub 3 antenna from Patriot Antenna Sys. Model No. 380AZ to Patriot Antenna Sys. Model No. 2M38091 (Antenna Facilities No. 3 on license)
- Add two (2) additional 11700-12200 MHz with Emission 2M20G7W receive frequencies and two (2) additional 14000-14500 MHz with Emission 2M20G7W transmit frequencies to Hub 3; no change to licensed Hub 3 frequencies (Particulars of Operations No. 9-12 on license)

- No change to Irvine2 site information (Site Location No. 2 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 4 on license)
- No change to Hub 3 frequency 14000-14500 MHz with Emission 2M20G7W (Particulars of Operation No. 10 on license)
- No change in Hub 3 frequency coordination (Frequency Coordination Nos. 3-4 on license)

4. Modification to Site Location Remote1 (Site ID No. 3 on license)

- Add Telstar 11N Point of Communication
- Add NSS-7 Point of Communication
- No change to Remote1, R10 antenna (Antenna Facilities No. 4 on license)
- No change to Remote1 site information (Site Location No. 3 on license)
- No change to SATMEX-5 Point of Communication (Point of Communication No. 6 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 5 on license)
- No change to R10 frequencies (Particulars of Operations Nos. 13-16 on license)
- No change to R10 frequency coordination (Frequency Coordination Nos. 5-6 on license)

5. Modification to Site Location Remote2 (Site ID No. 5 on license)

- Add Telstar 11N Point of Communication
- Add NSS-7 Point of Communication
- No change to Remote 2, R12 antenna (Antenna Facilities No. 5 on license)
- No change to Remote2 site information (Site Location No. 5 on license)
- No change to SATMEX-5 Point of Communication (Point of Communication No. 10 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 9 on license)
- No change to R12 frequencies (Particulars of Operations Nos. 17-20 on license)
- No change to R12 frequency coordination (Frequency Coordination Nos. 9-10 on license)

6. Modification to Site Location Remote3 (Site ID No. 6 on license)

- Add Telstar 11N Point of Communication
- Add NSS-7 Point of Communication
- No change to Remote3, R18 antenna (Antenna Facilities No. 6 on license)
- No change to Remote3 site information (Site Location No. 6 on license)
- No change to SATMEX-5 Point of Communication (Point of Communication No. 12 on license)
- No change to ALSAT Point of Communication (Point of Communication No. 11 on license)
- No change to R18 frequencies (Particulars of Operations Nos. 21-24 on license)
- No change to R18 frequency coordination (Frequency Coordination Nos. 11-12 on license)

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7. Add Site Location Jacksonville2

• All data is new and needs to be added to the license

8. Add Site Location Remote4

• All data is new and needs to be added to the license

9. Add Site Location Remote5

• All data is new and needs to be added to the license

10. Add Site Location Remote6

• All data is new and needs to be added to the license

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