Date & Time Filed: Aug 26 2014 1:10:41:776PM File Number: SES-MOD-INTR2014-01723

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: Add additional 6.1m antenna to existing PET system license

1–8. Legal N	lame of App	plicant		
N	Name:	X2nSat	Phone Number:	707–283–8008
	OBA Name:		Fax Number:	707–283–8080
S	Street:	1333 N. McDowell Blvd	E-Mail:	enrique@x2nsat.com
C	City:	Petaluma	State:	CA
C	Country:	USA	Zipcode:	94954 –
A	Attention:	Mr Enrique Amezcua		

### 9–16. Name of Contact Representative

 Name:
 X2nSat
 Phone Number:
 707-283-8008

 Company:
 X2nSat
 Fax Number:
 707-283-8080

Street: 1333 N. McDowell Blvd E–Mail: enrique@x2nsat.com

City: Petaluma State: CA

Country: USA Zipcode: 94954–

Attention: Enrique Amezcua Relationship: Engineer

### **CLASSIFICATION OF FILING**

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

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

**b** 3. Amendment to a Pending Application

**b**4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

**b**7. 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 applicat  The image of the submitted with this applicat in the submitted with this application. If Yes, complete and attach FCC Form	ion? 159. If No, indicate reason for fee exemption	(see 47 C.F.R.Section 1.1114).		
Governmental Entity Noncomme	ercial educational licensee			
Other(please explain):				
17d.				
Fee Classification CGV – Fixed Satellite VSAT System				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending modification please enter only the file numbe	g application enter both fields, if this filing is a r:		
(a) Call sign of station: E120004	(a) Date pending application was filed:	(b) File number:		
B120004		SESLIC2011123001503		

## TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	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)	
<del>_</del>	
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 s facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
O 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	pplicable 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	nal frequencies in an attachment)

### TYPE OF STATION

25. CLASS OF STATION: Choose the button	next to the class of sta	tion that applies. Choose only	one.	
a. Fixed Earth Station				
o b. Temporary–Fixed Earth Station				
o. 12/14 GHz VSAT Network				
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/Δ		
Transmit/Receive Transmit-Only "For Space Station applications, select N/A."	O Receive—Only	O N/A		

## PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication)
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.	Yes No Rad Haz Study 6.1m

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?	٥	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	•	No	0	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	٥	Yes	•	No	0	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 Yes ⊗ No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	Rad Haz Study 1_2m
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
	Rad Haz Study 4m
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	O Yes O No
construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	Rad Haz Study 1_8m

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	<b>⊚</b> No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.		O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	○ Yes	<b>⊚</b> No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station?	hat administr	ation has

This mod to license E120004 is to add one 6.1 meter Ku-Band antenna in Atlanta, GA as a back-up to the existing VSAT network in CA.

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	<b>●</b> A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	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.	<b>o</b> c

### **CERTIFICATION**

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to applicable response	.)
o Individual	
<ul> <li>Unincorporated Association</li> </ul>	
Partnership	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Garrett Hill	Chief Executive Officer
>	
WILLFUL FALSE STATEMENTS MADE ON THIS FOR	M ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
	REVOCATION OF ANY STATION AUTHORIZATION
(U.S. Code, Title 47, Section 312(a)(1)), AND/O	R 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 St	ation Site					
E1: Site Identifier:	1310PET	E5. Call Sign:	E120004			
E2: Contact Name	Enrique Amezcua	E6. Phone Number:	7072838008			
E3. Street:	1310 Redwood Way	E7. City:	Petaluma			
		E8. County:	Sonoma			
E4. State	CA	E9. Zip Code	94954			
E10. Area of Operat	tion:	Fixed				
E11. Latitude:	38 °16 '27.2 "N					
E12. Longitude:	122 °39 '48.5 "W					
E13. Lat/Lon Coord	linates are:	<b>o</b> NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	11.0 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.

E16 If the many of the second of the Eight Country		1		
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Se Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	posed antenna(s) comply with the antenna	O Yes	O No	<b>⊚</b> N/A
E17. Is the facility operated by remote control? If YES, provide the loca point.	ntion and telephone number of the control	O Yes	s 🔞	. No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	<u> </u>		
		O Yes	s 🔞	No
E19. Is coordination with another country required? If YES, attach the r coordination contours as	name of the country(ies) and plot of	O Yes	s 🔞	. No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	s 🔞	No No
POINTS OF COMMUNICATION		-		
Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT   If you s	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 atGHz)
1310PET	PET -Ku-1	1	ViaSat	6.1m Ku – 8060	6.1	57.0 dBi at 14.25
1310PET	PET -Ku-1	1	ViaSat	6.1m Ku – 8060	6.1	55.8 dBi at 11.950
1310PET	PET -Ku-2	1	ANDREW	ES40	4.0	51.6 dBi at 11.950
1310PET	PET -Ku-2	1	ANDREW	ES40	4.0	53.1 dBi at 14.250

E28. Antenna Id	Diameter		` ′	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
PET -Ku-1	0.0/0.0	4.0	15.0	0.0	30.0	0.0	72.0
PET -Ku-2	0.0/0.0	3.0	14.0	0.0	30.0	0.0	68.0

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)
PET -Ku-1	11700 12200	R	Horizontal and Vertical	200KG7D	0.0	0.0
E50. Modulation entirety.)  QPSK, DATA		ic complete descript	non does not appear n	i iiis oox, picase go	to the end of the form	to view it in its
PET -Ku-1	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)  QPSK, DATA		ne complete descript	tion does not appear in	this box, please go	to the end of the form	to view it in its
PET –Ku–1	11700 12200	R	Horizontal and Vertical	800KG7D	0.0	0.0

E50. Modulatio entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
QPSK, DAT	A					
PET –Ku–1	14000 14500	Т	Horizontal and Vertical	3M40G7D	55.0	27.0
E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
QPSK, DAT	A					
PET -Ku-1	14000 14500	Т	Horizontal and Vertical	7M00G7D	59.7	28.7
E50. Modulatio entirety.)	n and Services (If t	he complete descripti	on does not appear in	n this box, please go t	o the end of the form	to view it in its
QPSK, DAT	A					
PET -Ku-2	11700 12200	R	Horizontal and Vertical	200KG7D	0.0	0.0

E entir	50. Modulation ety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
	QPSK, DATA						
PET	-Ku-2	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E entir	50. Modulation ety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
	QPSK, DATA						
PET	-Ku-2	11700 12200	R	Horizontal and Vertical	800KG7D	0.0	0.0
E entir	50. Modulation ety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
	QPSK, DATA						
PET	-Ku-2	14000 14500	Т	Horizontal and Vertical	3M40G7D	55.0	27.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
QPSK, DATA						
PET -Ku-2	14000 14500	Т	Horizontal and Vertical	7M00G7D	59.7	28.7
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
QPSK, DATA						

# FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	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)
PET -Ku-1	Geostationary	11700 12200	58.0/139.0	106.3	11.2	205.3	42.5	0.0
	Geostationary	14000 14500	58.0/139.0	106.3	11.2	205.3	42.5	9.4

PET -Ku-2	Geostationary	11700 12200	58.0/139.0	106.3	11.2	205.3	42.5	0.0
	Geostationary	14000 14500	58.0/139.0	106.3	11.2	205.3	42.5	9.4

### REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the controcallsign for which this 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 St	ation Site					
E1: Site Identifier:	ATL HUB	E5. Call Sign:				
E2: Contact Name	Enrique Amezcua	E6. Phone Number:	7072838008			
E3. Street:	4311 COMMUNICATIO NS DRIVE	E7. City:	NORCROSS			
		E8. County:	GWINNETT			
E4. State	GA	E9. Zip Code	30093			
E10. Area of Operat	tion:	Fixed				
E11. Latitude:	33 °56 '19.0 "N					
E12. Longitude:	84 °8 '9.0 "W					
E13. Lat/Lon Coord	linates are:	NAD-27	O NAD-83	O N/A		
E14. Site Elevation	(AMSL):	287.0 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
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 locat point.	ion and telephone number of the control	● Yes	O No
		1	
E18. Is frequency coordination required? If YES, attach a frequency coordination required?	rdination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the national contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA' the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT   If you se	elected 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 atGHz)
ATL HUB	ATL KU – 1	1	ViaSat	6.1m Ku – 8060K	6.1	55.8 dBi at 14.250
ATL HUB	ATL KU – 1	1	ViaSat	6.1m Ku – 8060K	6.1	57.0 dBi at 11.950

Id	Diameter		` ′	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
ATL KU – 1	0.0/0.0	6.2	287.0	0.0	30.0	0.0	72.0

# FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
ATL KU – 1	11700 12200	R	Horizontal and Vertical	200KG7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
QPSK, DATA	1					
ATL KU – 1	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)  QPSK, DATA		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
ATL KU – 1	11700 12200	R	Horizontal and Vertical	800KG7D	0.0	0.0
E50. Modulation entirety.)  QPSK, DATA		ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
ATL KU – 1	14000 14500	Т	Horizontal and Vertical	3M40G7D	55.0	27.0

## FREQUENCY COORDINATION

E28. Antenna Id		E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	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)
ATL KU – 1	Geostationary	11700 12200	60.0/143.0	141.2	42.8	251.4	17.0	0.0
	Geostationary	14000 14500	60.0/143.0	141.2	42.8	251.4	17.0	9.4

REMOTE CONTROL POINT LOCATION

E61. Call Sign E120004 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 7072838008			
E62. Street Address 1310 REDWOOD WAY				
E63. City Petaluma	E68. County Sonoma		E67/68. State/Country CA/ USA	E64. Zip Code 94954

## SATELLITE EARTH STATION AUTHORIZATIONS

FCC Form 312 – Schedule B:(Technical and Operational Description)
FOR OFFICIAL USE ONLY

Location of Earth St	ation Site					
E1: Site Identifier:	Remote12	E5. Call Sign:				
E2: Contact Name	Enrique Amezcua	E6. Phone Number:	7072838008			
E3. Street:	Conus, AK, HI,PR and VI	E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operat	tion:	Fixed				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	O NAD-27	O NAD-83	N/A		
E14. Site Elevation	(AMSL):	0.0 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
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 locat point.	ion and telephone number of the control	O Yes	No
E18. Is frequency coordination required? If YES, attach a frequency coordinate	dination report as		
		O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA' the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	s study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT   If you se	lected 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 atGHz)
Remote12	Remote 1.2	3000	Skyware Global	1.2 MKU	1.2	41.8 dBi at 12.000
Remote12	Remote 1.2	3000	Skyware Global	1.2 MKU	1.2	43.3 dBi at 14.300

Id	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange		EIRP for al
Remote 1.2	0.0/0.0	2.0	0.0	0.0	3.0	0.0	48.0

# FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Remote 1.2	11700 12200	R	Horizontal and Vertical	3M40G7D	0.0	0.0

E50. Modulation	and Sarvices (If th	e complete description	on does not annear in	this how please go to	o the end of the form	to view it in its
entirety.)	and services (ii th	ie complete description	on does not appear in	tills box, please go to	o the end of the form	to view it iii its
QPSK, DATA						
Remote 1.2	11700 12200	R	Horizontal and Vertical	7M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	le complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
QPSK, DATA						
Remote 1.2	14000 14500	Т	Horizontal and Vertical	200KG7D	43.0	27.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	the end of the form	to view it in its
QPSK, DATA						
Remote 1.2	14000 14500	Т	Horizontal and Vertical	400KG7D	46.0	27.0

## FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	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)
Remote 1.2	Geostationary	11700 12200	58.0/139.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	58.0/139.0	0.0	5.0	0.0	5.0	7.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign  NOTE: Please enter the callsign of callsign for which this application is		E66. Phone Number	
callsign for which this 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 St	ation Site					
E1: Site Identifier:	Remote18	E5. Call Sign:				
E2: Contact Name	Enrique Amezcua	E6. Phone Number:	7072838008			
E3. Street:	Conus, AK, HI,PR and VI	E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operat	ion:	Fixed				
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coord	linates are:	O NAD-27	O NAD-83	N/A		
E14. Site Elevation	(AMSL):	0.0 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
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	<b>⊚</b> N/A

E17. Is the facility operated by remote control? If YES, provide the locat point.	tion and telephone number of the control	O Yes	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	s's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: ALSAT   ALL AUTHORIZED U.S.   ALSAT   If you se	elected 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: ANTENNA	E27. Country:		

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
Remote18	Remote 1.8	1000	Skyware Global	1.8 MKU	1.8	45.3 dBi at 12.000
Remote18	Remote 1.8	1000	Skyware Global	1.8 MKU	1.8	46.8 dBi at 14.300

Id	Diameter		, ,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Remote 1.8	0.0/0.0	2.0	0.0	0.0	3.0	0.0	51.5

# FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Remote 1.8	11700 12200	R	Horizontal and Vertical	3M40G7D	0.0	0.0

E50. Modulation	and Services (If the	ne complete description	on does not appear in	this box please go to	o the end of the form	to view it in its
entirety.)	and services (ii ti	ie complete description	on does not appear in	tins box, pieuse go t	o the end of the form	to view it in its
QPSK, DATA	1					
Remote 1.8	11700 12200	R	Horizontal and Vertical	7M00G7D	0.0	0.0
E50. Modulation entirety.)  QPSK, DATA	,	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Remote 1.8	14000 14500	Т	Horizontal and Vertical	200KG7D	46.5	30.5
E50. Modulation entirety.)  QPSK, DATA	,	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Remote 1.8	14000 14500	Т	Horizontal and Vertical	400KG7D	49.5	30.5

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.)

Remote 1.8 | 14000 | T | Horizontal and Vertical | 800KG7D | 50.5 | 28.5 |

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.)

QPSK, DATA

## FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	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)
Remote 1.8	Geostationary	11700 12200	58.0/139.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	58.0/139.0	0.0	5.0	0.0	5.0	7.0

REMOTE CONTROL POINT LOCATION

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

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