Approved by OMB 3060–0678

Date & Time Filed: May 18 2006 3:55:04:466PM File Number: SES-MOD-INTR2006-01309

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:

Refiling of partial application dismissed without prejudice, FCC File No. SES–MOD–20060407–00593, FCC Call Sign E940457, to add authority for .74 and .98 remote antennas.

1–8. Legal Name of Applicant				
Ň	lame:	Wal–Mart Stores, Inc., a Delaware corporation	Phone Number:	479–277–3387
	DBA Name:		Fax Number:	479–936–2486
S	treet:	702 S.W. 8th Street	E-Mail:	jmfield@wal-mart.com
		Licensing Department 8916		
C	City:	Bentonville	State:	AR
C	Country:	USA	Zipcode:	72716 -0500
А	ttention:	Jim Fielding		

9–16. Name of Cont	tact Representative		
Name:	C. Douglas Jarrett	Phone Number:	2024344282
Compar	ny: Keller and Heckm	an LLP Fax Number:	2024344646
Street:	Suite 500 West	E–Mail:	buckley@khlaw.com
	1001 G Street, NV	7	
City:	Washington	State:	DC
Country	y: USA	Zipcode:	20001-
Attentio	on: Elizabeth Buckley	Relationship:	Legal Counsel
CLASSIFICATIO	N OF FILING		
	pplies to this filing for ad b. Choose only one	 (N/A) b1. Application for License of Ne (N/A) b2. Application for Registration of (N/A) b3. Amendment to a Pending 	of New Domestic Receive–Only Station g Application
		(N/A) b4. Modification of License of	or Registration

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

17c. Is a fee submitted with this applicati	on?				
• If Yes, complete and attach FCC Form	If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).				
O Governmental Entity O Noncomme	rcial educational licensee				
• Other(please explain): Refiling of par	tial application dismissed without prejudice, FCC	C File No. SES–MOD–20060407–00593, FCC Call			
Sign E940457					
17d.					
Fee Classification CGX – Fixed Satellite T Station	Transmit/Receive Earth				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending a modification please enter only the file number:	pplication enter both fields, if this filing is a			
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:			
E940457		SESRWL2004121501840			

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
only one.	Substantial Station approximation and the approximation of the station of the sta
Common Carrier 💿 Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected to a	Public Switched Network O N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	applicable frequency band(s).
a. C–Band (4/6 GHz) k. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: Frequency Upper: (Please specify addition	onal frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
o a. Fixed Earth Station
• b. Temporary–Fixed Earth Station
● c. 12/14 GHz VSAT Network
O d. Mobile Earth Station
• e. Geostationary Space Station
• f. Non–Geostationary Space Station
• g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION



ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	● Yes ● No Exhibit B					
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	۲	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	۲	No	0	N/A
32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	0	Yes	۲	No	0	N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than	0	Yes	6	No	\circ
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?					

N/A

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

BASIC QUALIFICATIONS

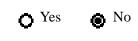
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	O Yes	le No
	Exhibit D	
36. Has the applicant or any party to this application or amendment had any FCC 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	S No
	Exhibit E	

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	le No
	Exhibit F	
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other	O Yes	
means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	Exhibit G	
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	le No
	Exhibit H	
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.	Exhibit I	

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41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes,
answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No,
proceed to question 43.



O No

Yes

Exhibit J

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Application seeks authority to add .74m and .98m remote antennas.

Exhibit K

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

O Unincorporated Association

- Partnership
- Corporation

Governmental Entity

Other (please specify)

45. Name of Person Signing
Jim M. Fielding46. Title of Person Signing
Wireless Development/Satellite Network

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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 S	tation Site					
E1: Site Identifier:	Hub–Primary	E5. Call Sign:	E940457			
E2: Contact Name	Jim Fielding	E6. Phone Number:	4792773387			
E3. Street:	702 S.W. 8th Street	E7. City:	Bentonville			
		E8. County:	Benton			
E4. State	AR	E9. Zip Code	72716			
E10. Area of Opera	tion:	CONUS, AK, HI ar	nd PR			
E11. Latitude:	36 °21 '58.0 "N					
E12. Longitude:	94 °13 '8.0 "W					
E13. Lat/Lon Coord	linates are:	O NAD-27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	392.6 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.	• Yes	O ^{No}	O ^{N/A}
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O ^{Yes}	O ^{No}	● ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	۲	Yes	0	No

POINTS OF COMMUNICATION

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

Satellite Name: GALAXY 10R | GALAXY 10R | 123 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:					
E23. Orbit Location:	E24. Country:					
POINTS OF COMMUNICATION (Destination Points)						
E25. Site Identifier: Hub–Primary						
E26. Common Name:	E27. Country: USA					

E25. Site Identifier: Hub–Primary	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
Hub–Primary	Hub (1)	1	Vertex	5351	9.0	59.2 dBi at 11.9500
Hub–Primary	Hub (1)	1	Vertex	5351	9.0	60.4 dBi at 14.2500

Id			· · · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Hub (1)	9.0/9.0	10.1	402.7	0.0	500.0	0.0	87.4

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)
Hub (1)	11.7 12.2	R	Horizontal and Vertical	200KG7D	0.0	0.0
E50. Modulation entirety.) QPSK, DATA	and Services (If that and Services (If that and Services (If the services		on does not appear in	this box, please go to	o the end of the form	to view it in its
Hub (1)	11.7 12.2	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If th	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	A, INROUTE, 256	KSPS				
Hub (1)	11.7 12.2	R	Horizontal and Vertical	800KGD7	0.0	0.0

E50. Modulation entirety.)	on and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK, DAT	FA, INROUTE, 51	2 KSPS				
Hub (1)	11.7 12.2	R	Horizontal and Vertical	1M60G7D	0.0	0.0
E50. Modulation entirety.)	on and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
QPSK, DAT	FA, INROUTE, 10	24 KSPS				
Hub (1)	14.0 14.5	Т	Horizontal and Vertical	36M0F9F	80.3	55.4
E50. Modulation entirety.)	on and Services (If	the complete descri	ption does not appear	in this box, please	go to the end of t	he form to view it in its
FM VIDEO	WITH AUDIO SUB	CRX				
Hub (1)	14.0 14.5	Т	Horizontal and Vertical	12M0G7D	81.2	46.4

E50. Modulatie entirety.)	on and Services (If t	he complete descript	ion does not appear i	in this box, please g	go to the end of t	he form to view it in its
QPSK, DA'	FA, INROUTE, 10	MSPS				
Hub (1)	14.0 14.5	Т	Horizontal and Vertical	24M0G7D	84.2	46.4
E50. Modulation entirety.)	on and Services (If t	he complete descript	ion does not appear i	in this box, please g	go to the end of t	he form to view it in its
QPSK, DA	FA, INROUTE, 20	MSPS				
Hub (1)	14.0 14.5	Т	Horizontal and Vertical	36M0G7D	85.9	46.4
E50. Modulatie entirety.)	on and Services (If t	he complete descript	ion does not appear i	in this box, please g	go to the end of t	he form to view it in its
QPSK, DA'	FA, INROUTE, 30	MSPS				
Hub (1)	14.0 14.5	Т	Horizontal and Vertical	6M00G7D	78.2	46.4

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, INROUTE, 5 MSPS

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		E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub (1)	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign E940457 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 4792772674			
E62. Street Address 702 SW 8th Street				
E63. City Bentonville	E68. County Benton		E67/68. State/Country AR/ USA	E64. Zip Code 72716

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

Location of Earth St	tation Site						
E1: Site Identifier:	Hub (Secondary)	E5. Call Sign:	E940457				
E2: Contact Name	Jim Fielding	E6. Phone Number:	4792772674				
E3. Street:	2001 Bear Hollow Road	E7. City:	Pineville				
		E8. County:	McDonald				
E4. State	МО	E9. Zip Code	64856				
E10. Area of Opera	tion:	CONUS, AK, HI and PR					
E11. Latitude:	36°30'6.0 "N						
E12. Longitude:	94 °15 '57.0 "W						
E13. Lat/Lon Coord	linates are:	O NAD-27	• NAD-83	O ^{N/A}			
E14. Site Elevation	(AMSL):	397.3 meters					

two-degree spacing policy.	by the manufacturer's quantication measurement? If NO, provide as a technical analysis showing compliance with	• Yes	O ^{No}	O ^{N/A}
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O ^{Yes}	O ^{No}	● ^{N/A}
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	۲	Yes	0	No

POINTS OF COMMUNICATION

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

Satellite Name: GALAXY 10R | GALAXY 10R | 123 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
POINTS OF COMMUNICATION (Destination Points)					
E25. Site Identifier: Hub (Secondary)					
E26. Common Name:	E27. Country: USA				

E25. Site Identifier: Hub (Secondary)	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
Hub (Secondary)	Hub 2	1	Harris	5346	6.1	55.4 dBi at 11.95
Hub (Secondary)	Hub 2	1	Harris	5346	6.1	56.5 dBi at 14.25

E28. Antenna Id	Diameter		· · · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Hub 2	6.1/6.1	7.4	404.7	0.0	500.0	0.0	83.5

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)		
Hub 2	11.7 12.2	R	Horizontal and Vertical	200KG7D	0.0	0.0		
E50. Modulation entirety.) QPSK, DATA	and Services (If the se		on does not appear in	this box, please go t	o the end of the form	to view it in its		
Hub 2	11.7 12.2	R	Horizontal and Vertical	400KG7D	0.0	0.0		
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, INROUTE, 256 KSPS								
Hub 2	11.7 12.2	R	Horizontal and Vertical	800KG7D	0.0	0.0		

E50. Modulation entirety.)	and Services (If the services of the services	he complete descripti	on does not appear ir	n this box, please go	to the end of the form	to view it in its
QPSK, DATA	., INROUTE, 512	2 KSPS				
Hub 2	11.7 12.2	R	Horizontal and Vertical	1M60G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear ir	this box, please go	to the end of the form	to view it in its
QPSK, DATA	, INROUTE, 102	24 KSPS				
Hub 2	14 14.5	Т	Horizontal and Vertical	6M00G7D	74.3	42.5
E50. Modulation entirety.)	and Services (If the services of the services	he complete descripti	on does not appear ir	n this box, please go	to the end of the form	to view it in its
QPSK, DATA	, INROUTE, 5 M	ISPS				
Hub 2	14 14.5	Т	Horizontal and Vertical	12M0G7D	77.3	42.5

E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 10	MSPS				
Hub 2	14.0 14.5	Т	Horizontal and Vertical	36M0F9F	76.8	51.9
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
FM VIDEO W	NITH AUDIO SUB	CRX				
Hub 2	14.0 14.5	Т	Horizontal and Vertical	24M0G7D	80.3	42.5
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 20	MSPS				
Hub 2	14.0 14.5	Т	Horizontal and Vertical	36M0G7D	82.1	42.5

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, INROUTE, 30 MSPS

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Hub 2	Geostationary	14.000 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign E940457 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 4792772674					
E62. Street Address 702 SW 8th Street						
E63. City Bentonville	E68. County Benton		E67/68. State/Country AR/ USA	E64. Zip Code 72716		

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

Location of Earth S	Station Site					
E1: Site Identifier:	VSAT 1	E5. Call Sign:	E940457			
E2: Contact Name	Jim Fielding	E6. Phone Number:	4792772674			
E3. Street:		E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operation	ation:	CONUS, AK, HI	CONUS, AK, HI and PR			
E11. Latitude:	0 °0 '0.0 "					
E12. Longitude:	0 °0 '0.0 "					
E13. Lat/Lon Coor	rdinates are:	ONAD-27	O NAD−83	● N/A		
E14. Site Elevation	n (AMSL):	0.0 meters				

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you sele	cted OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
POINTS OF COMMUNICATION (Destination Points)					
E25. Site Identifier: VSAT 1					

E26. Common Name:	E27. Country: USA
	•

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)	
VSAT 1	.74 Prod.	5000	Prodelin	HANT–91TR	0.74	37.7 dBi at 11.95	
VSAT 1	.74 Prod.	5000	Prodelin	HANT-91TR	0.74	39.0 dBi at 14.25	

Id	Diameter			Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
.74 Prod.	0.56/0.98	0.0	0.0	0.0	2.0	0.0	42.0

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
.74 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
FM VIDEO W	VITH AUDIO SUB	CRX				
.74 Prod.	11.7 12.2	R	Horizontal and Vertical	6M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he 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	, INROUTE, 5 M	ISPS				
.74 Prod.	11.7 12.2	R	Horizontal and Vertical	12M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he 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	., INROUTE, 10	MSPS				
.74 Prod.	11.7 12.2	R	Horizontal and Vertical	24M0G7D	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.) QPSK , DATA	, INROUTE, 20	MSPS				
.74 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the services of the services	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	, INROUTE, 30	MSPS				
.74 Prod.	14 14.5	Т	Horizontal and Vertical	200KG7D	42.0	25.0
E50. Modulation entirety.)	and Services (If the services of the services	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	, INROUTE, 128	KSPS				
.74 Prod.	14 14.5	Т	Horizontal and Vertical	400KG7D	42.0	22.0

E50. Modulation entirety.)	and Services (If the services of the services	he complete description	on does not appear i	in this box, please g	go to the end of th	e form to view it in its
QPSK, DATA	, INROUTE, 256	5 KSPS				
.74 Prod.	14 14.5	Т	Horizontal and Vertical	800KG7D	42.0	19.0
E50. Modulation entirety.)	and Services (If the services of the services	he complete description	on does not appear i	in this box, please g	go to the end of th	e form to view it in its
QPSK, DATA	, INROUTE, 512	2 KSPS				
.74 Prod.	14 14.5	Т	Horizontal and Vertical	1M60G7D	42.0	16.0
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear i	in this box, please g	go to the end of th	e form to view it in its
QPSK, DATA	., INROUTE, 102	24 KSPS				
FREQUENCY CC	ORDINATION					

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E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevatio Angle Western Limit	on EIRP Density toward the
.74 Prod.	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
REMOTE CONTROL POINT LOCATION E61. Call Sign E940457 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed. E62. Street Address 702 SW 8th St								
E63. City Bentonville			E68. County Benton	7		E67/68. State/Country AR/ USA	A	E64. Zip Code 72716

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: VSAT 2	E5. Call Sign:	E940457			
E2: Contact Name Jim Fielding	g E6. Phone Number:	4792772674			
E3. Street:	E7. City:				
	E8. County:				
E4. State	E9. Zip Code				
E10. Area of Operation:	CONUS, AK, HI	and PR			
E11. Latitude: 0 °0 '0.0 "					
E12. Longitude: 0 °0 '0.0 "					
E13. Lat/Lon Coordinates are:	● 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.	O ^{Yes}	● ^{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 location and telephone number of the control		
point.	• Yes	O No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you selected OTHER, please enter the following:				
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)				

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: VSAT 2	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
VSAT 2	.74 Raven	2000	Raven	HNS-1035610	0.74	36.7 dBi at 11.95
VSAT 2	.74 Raven	2000	Raven	HNS-1035610	0.74	38.7 dBi at 14.25

Id	Diameter		· · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
.74 Raven	0.69/0.84	0.0	0.0	0.0	2.0	0.0	41.7

FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode		E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
.74 Raven	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
FM VIDEO V	NITH AUDIO SUB	CRX				
.74 Raven	11.7 12.2	R	Horizontal and Vertical	6M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 5 M	ISPS				
.74 Raven	11.7 12.2	R	Horizontal and Vertical	12M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descripti	on does not appear in	this box, please go t	o the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 10	MSPS				
.74 Raven	11.7 12.2	R	Horizontal and Vertical	24M0G7D	0.0	0.0

E50. Modulation	and Services (If the	he complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
entirety.) QPSK, DATA	, INROUTE, 20	MSPS				
.74 Raven	11.7 12.2	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he 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	, INROUTE, 30	MSPS				
.74 Raven	14 14.5	Т	Horizontal and Vertical	200KG7D	41.7	24.7
E50. Modulation entirety.)	and Services (If the	he 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	, INROUTE, 128	8 KSPS				
.74 Raven	14 14.5	Т	Horizontal and Vertical	400KG7D	41.7	21.7

QPSK, DATA, INROUTE, 256 KSPS .74 Raven 14 14.5 T Horizontal and Vertical 800KG7D 41.7 18.7
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, INROUTE, 512 KSPS
.74 Raven 14 14.5 T Horizontal and Vertical 1M60G7D 41.7 15.7
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, INROUTE, 1024 KSPS FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
.74 Raven	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
REMOTE CC	ONTROL POIN	T LOCATION				-		
	ign ase enter the calls ich this applicati	•	U	4792	Phone Number 2772674			
E62. Street 702 SW 8th				I				
E63. City			E68. County	7		E67/68.		E64. Zip Code

Bentonville	Benton	State/Country AR/ USA	E64. Zip Code 72716	

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: VSAT 3	E5. Call Sign:	E940457			
E2: Contact Name Jim Fieldi	ng E6. Phone Number:	4792772674			
E3. Street:	E7. City:				
	E8. County:				
E4. State	E9. Zip Code				
E10. Area of Operation:	CONUS, AK, HI a	CONUS, AK, HI and PR			
E11. Latitude: $0 \circ 0 \circ 0 \circ 0$	1				
E12. Longitude: $0 \circ 0 \circ 0 \circ 0$	1				
E13. Lat/Lon Coordinates 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.	O ^{Yes}	● ^{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 location and telephone number of the control		
point.	• Yes	O No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you sele	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier: VSAT 3	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
VSAT 3	.98 Prod.	10000	Prodelin	9008668	0.98	39.9 dBi at 11.95
VSAT 3	.98 Prod.	10000	Prodelin	9008668	0.98	41.3 dBi at 14.25

Id	Diameter		· · · ·	Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
.98 Prod.	0.98/0.98	0.0	0.0	0.0	2.0	0.0	44.3

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
.98 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
FM VIDEO W	NITH AUDIO SUB	CRX				
.98 Prod.	11.7 12.2	R	Horizontal and Vertical	6M00G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 5 M	1SPS				
.98 Prod.	11.7 12.2	R	Horizontal and Vertical	12M0G7D	0.0	0.0
E50. Modulation entirety.)	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.)					
.98 Prod.	11.7 12.2	R	Horizontal and Vertical	24M0G7D	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	., INROUTE, 20	MSPS					
.98 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0G7D	0.0	0.0	
E50. Modulation entirety.)	and Services (If the services of the services	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its	
QPSK, DATA	, INROUTE, 30	MSPS					
.98 Prod.	14 14.5	Т	Horizontal and Vertical	200KG7D	44.3	27.3	
E50. Modulation entirety.)	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.)						
entirety.) QPSK, DATA, INROUTE, 128 KSPS							
.98 Prod.	14 14.5	Т	Horizontal and Vertical	400KG7D	44.3	24.3	

E50. Modulation entirety.)	and Service	es (If th	ne complete descr	ription does not appear	in this box, please	go to the end of the	ne form to view it in its	;
QPSK, DATA	, INROUT	'Е, 256	KSPS					
.98 Prod.	14	14.5	Т	Horizontal and Vertical	800KG7D	44.3	21.3	
E50. Modulation entirety.)	and Service	es (If th	ne complete descr	ription does not appear	in this box, please	go to the end of the	ne form to view it in its	;
QPSK, DATA	, INROUT	E, 512	KSPS					
.98 Prod.	14	14.5	Т	Horizontal and Vertical	1M60G7D	44.3	19.3	
E50. Modulation entirety.)	and Service	es (If th	ne complete descr	ription does not appear	in this box, please	go to the end of the	ne form to view it in its	;
QPSK, DATA			4 KSPS					

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevatio Angle Western Limit	on EIRP Density toward the
.98 Prod.	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
REMOTE CONTROL POINT LOCATION E61. Call Sign E940457 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.								
E62. Street Address 702 SW 8th Street								
E63. City Bentonville			E68. County Benton	7		E67/68. State/Country AR/ USA	Ą	E64. Zip Code 72716

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

Location of Earth Stati	ion Site				
E1: Site Identifier: V	VSAT 4	E5. Call Sign:	E940457		
E2: Contact Name J	im Fielding	E6. Phone Number:	4792772674		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operatio	on:	CONUS, AK, HI an	d PR		
E11. Latitude: 0	0 °0 '0.0 "				
E12. Longitude: 0	0 °0 '0.0 "				
E13. Lat/Lon Coordin	nates are:	ONAD-27	O NAD−83	● N/A	
E14. Site Elevation (A	AMSL):	0.0 meters			

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

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control		
point.	• Yes	O No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you set	ected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

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:			
POINTS OF COMMUNICATION (Destination Points)				
E25. Site Identifier: VSAT 4				

E26. Common Name:	E27. Country: USA
	•

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
VSAT 4	1.2 Prod.	10000	Prodelin	1134	1.2	41.5 dBi at 11.95
VSAT 4	1.2 Prod.	10000	Prodelin	1134	1.2	43.1 dBi at 14.25

Id	Diameter		· · · ·	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1.2 Prod.	1.2/1.2	0.0	0.0	0.0	2.0	0.0	46.1

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1.2 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulatior entirety.)	and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
FM VIDEO V	VITH AUDIO SUB	CRX				
1.2 Prod.	11.7 12.2	R	Horizontal and Vertical	6M00G7D	0.0	0.0
E50. Modulatior entirety.)	and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 5 M	1SPS				
1.2 Prod.	11.7 12.2	R	Horizontal and Vertical	12M0G7D	0.0	0.0
E50. Modulatior entirety.)	and Services (If t	he complete descripti	on does not appear in	n this box, please go	to the end of the form	to view it in its
QPSK, DATA	A, INROUTE, 10	MSPS				
1.2 Prod.	11.7 12.2	R	Horizontal and Vertical	24M0G7D	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.) QPSK, DATA	, INROUTE, 20	MSPS				
1.2 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0G7D	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	, INROUTE, 30	MSPS				
1.2 Prod.	14 14.5	Т	Horizontal and Vertical	200KG7D	46.1	29.1
E50. Modulation entirety.)	and Services (If the services of the services	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	, INROUTE, 128	KSPS				
1.2 Prod.	14 14.5	Т	Horizontal and Vertical	400KG7D	46.1	26.1

E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear i	n this box, please go	to the end of the form	n to view it in its
QPSK, DATA	, INROUTE, 256	5 KSPS				
1.2 Prod.	14 14.5	Т	Horizontal and Vertical	800KG7D	46.1	23.1
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear i	n this box, please go	to the end of the form	n to view it in its
QPSK, DATA	, INROUTE, 512	2 KSPS				
1.2 Prod.	14 14.5	Т	Horizontal and Vertical	1M60G7D	46.1	20.1
E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear i	n this box, please go	to the end of the form	n to view it in its
	., INROUTE, 102	24 KSPS				
FREQUENCY CC	ORDINATION					

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevatio Angle Western Limit	n EIRP Density toward the
1.2 Prod.	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
	ign ise enter the calls ich this applicati	•	•	4792	. Phone Number 2772674			
E62. Street . 702 SW 8th								
E63. City Bentonville			E68. County Benton	I		E67/68. State/Country AR/ US	A	E64. Zip Code 72716

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

Location of Earth Station Site					
E1: Site Identifier: VSAT 5	E5. Call Sign:	E940457			
E2: Contact Name Jim Fielding	E6. Phone Number:	4792772674			
E3. Street:	E7. City:				
	E8. County:				
E4. State	E9. Zip Code				
E10. Area of Operation:	CONUS, AK, HI	and PR			
E11. Latitude: 0 °0 '0.0 "					
E12. Longitude: 0 °0 '0.0 "					
E13. Lat/Lon Coordinates are:	ONAD-27	ONAD-83	● N/A		
E14. Site Elevation (AMSL):	0.0 meters				

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

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control		
point.	• Yes	O No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

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

Satellite Name: GALAXY 10R GALAXY 10R 123 W.L. If you selected OTHER, please enter the following:							
E21. Common Name:	E22. ITU Name:						
E23. Orbit Location:	E24. Country:						
POINTS OF COMMUNICATION (Destination Points)							
E25. Site Identifier: VSAT 5							

E26. Common Name:	E27. Country: USA
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E25. Site Identifier: VSAT 5	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)	
VSAT 5	1.8 Prod.	1000	Prodelin	1184	1.8	45.0 dBi at 11.95	
VSAT 5	1.8 Prod.	1000	Prodelin	1184	1.8	46.7 dBi at 14.25	

Id				Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
1.8 Prod.	1.8/1.8	0.0	0.0	0.0	2.0	0.0	49.7

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1.8 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulation entirety.)	and Services (If the services of the services	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
FM VIDEO W	TTH AUDIO SUB	CRX				
1.8 Prod.	11.7 12.2	R	Horizontal and Vertical	6M00G7D	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	., INROUTE, 5 M	ISPS				
1.8 Prod.	11.7 12.2	R	Horizontal and Vertical	12M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the services of the services	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	., INROUTE, 10	MSPS				
1.8 Prod.	11.7 12.2	R	Horizontal and Vertical	24M0G7D	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
	., INROUTE, 20	MSPS				
1.8 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation entirety.)			on does not appear in	this box, please go to	o the end of the form	to view it in its
QPSK, DATA	, INROUTE, 30	MSPS				
1.8 Prod.	14 14.5	Т	Horizontal and Vertical	200KG7D	49.7	32.7
E50. Modulation entirety.)	and Services (If the services of the services	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	., INROUTE, 128	KSPS				
1.8 Prod.	14 14.5	Т	Horizontal and Vertical	400KG7D	49.7	29.7

E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear i	in this box, please g	go to the end of th	e form to view it in its
QPSK, DATA	, INROUTE, 256	5 KSPS				
1.8 Prod.	14 14.5	Т	Horizontal and Vertical	800KG7D	49.7	26.7
E50. Modulation entirety.)			on does not appear i	in this box, please §	go to the end of th	e form to view it in its
QPSK, DATA	., INROUTE, 512	2 KSPS				
1.8 Prod.	14 14.5	Т	Horizontal and Vertical	1M60G7D	49.7	23.7
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear i	in this box, please g	go to the end of th	e form to view it in its
	, INROUTE, 102	24 KSPS				
FREQUENCY CC	ORDINATION					

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	n EIRP Density toward the
1.8 Prod.	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
E61. Call S E940457 NOTE: Plea	INTROL POIN ign ase enter the calls ich this application	ign of the contro	•	4792	. Phone Number 2772674			
E62. Street 702 SW 8th								
E63. City Bentonville			E68. County Benton	1		E67/68. State/Country AR/ US		E64. Zip Code 72716

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

Location of Earth St	tation Site				
E1: Site Identifier:	VSAT 6	E5. Call Sign:	E940457		
E2: Contact Name	Jim Fielding	E6. Phone Number:	4792772674		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Opera	tion:	CONUS, AK, HI ar	nd PR		
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	dinates are:	O NAD−27	O NAD−83	● ^{N/A}	
E14. Site Elevation	(AMSL):	0.0 meters			

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

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control		
point.	• Yes	O No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Exhibit M	0	Yes	● ^{No}	0
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	● ^{No}	0
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?Exhibit O FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	• No	0

Satellite Name: GALAXY 10R GALAXY 10R 123 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 If you selected OTHER, please enter the following:					
E21. Common Name:	E22. ITU Name:				
E23. Orbit Location:	E24. Country:				
POINTS OF COMMUNICATION (Destination Points)					
E25. Site Identifier: VSAT 6					

E26. Common Name:	E27. Country: USA
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E25. Site Identifier: VSAT 6	
E26. Common Name:	E27. Country: USA

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi at GHz)
VSAT 6	2.4 Prod.	1000	Prodelin	1244	2.4	47.7 dBi at 11.95
VSAT 6	2.4 Prod.	1000	Prodelin	1244	2.4	49.2 dBi at 14.25

Id	Diameter			Height Above	E38. Total Input Power at antenna flange (Watts)	0	EIRP for al
2.4 Prod.	2.4/2.4	0.0	0.0	0.0	2.0	0.0	52.2

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
2.4 Prod.	11.7 12.2	R	Horizontal and Vertical	36M0F9F	0.0	0.0

E50. Modulation entirety.)	and Services (If the	he complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its		
FM VIDEO W	VITH AUDIO SUB	CRX						
2.4 Prod.	11.7 12.2	R	Horizontal and Vertical	6M00G7D	0.0	0.0		
E50. Modulation entirety.)	and Services (If the	he 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, INROUTE, 5 MSPS								
2.4 Prod.	11.7 12.2	R	Horizontal	36M0G7D	0.0	0.0		
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, INROUTE, 30 MSPS								
2.4 Prod.	11.7 12.2	R	Horizontal and Vertical	24M0G7D	0.0	0.0		

E50. Modulation entirety.)	and Services (If the	he 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	., INROUTE, 20	MSPS						
2.4 Prod.	11.7 12.2	Т	Horizontal and Vertical	12M0G7D	0.0	0.0		
E50. Modulation entirety.)	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	, INROUTE, 10	MSPS						
2.4 Prod.	14 14.5	Т	Horizontal and Vertical	200KG7D	52.2	35.2		
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)								
QPSK, DATA, INROUTE, 128 KSPS								
2.4 Prod.	14 14.5	Т	Horizontal and Vertical	400KG7D	52.2	32.2		

E50. Modulation entirety.)	and Services (If	the complete descript	tion does not appear	in this box, please	go to the end of the	ne form to view it in its
QPSK, DATA	A, INROUTE, 25	6 KSPS				
2.4 Prod.	14 14.5	Т	Horizontal and Vertical	800KG7D	52.2	29.2
E50. Modulation entirety.)	and Services (If	the complete descript	tion does not appear	in this box, please	go to the end of the	ne form to view it in its
QPSK, DATA	A, INROUTE, 51	2 KSPS				
2.4 Prod.	14 14.5	Т	Horizontal and Vertical	1M60G7D	52.2	26.2
E50. Modulation entirety.)			tion does not appear	in this box, please	go to the end of the	ne form to view it in its
GPSK, DATA	A, INROUTE, 10	24 KSPS				

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
2.4 Prod.	Geostationary	14 14.5	60.0/140.0	100.0	5.0	250.0	5.0	-10.0
REMOTE CO	NTROL POIN	T LOCATION	1	1	1		4	
E61. Call SignE66. Phone NumberE9404574792772674NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.E66. Phone Number								
E62. Street Address 702 SW 8th Street								
E63. City Bentonville			E68. County Benton	,		E67/68. State/Country AR/ USA	72	54. Zip Code 716

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