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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: WB36 May 2020 Power Increase for 3 Antennas & add 9 New Antennas

egal Name of Ap	pplicant		
Name:	Marlink, Inc.	Phone Number:	240-595-0655
DBA Name:		Fax Number:	713–946–0403
Street:	3327 South Sam Houston Parkway East	E–Mail:	tom.collins@marlink.com
	Suite 100		
City:	Houston	State:	TX
<b>Country:</b>	USA	Zipcode:	77047 –
<b>Attention:</b>	Tom Collins		

#### 9–16. Name of Contact Representative

Name: James G. Lovelace Phone Number: 281 606 0117

Company: Marlink, Inc. Fax Number: 713–946–0403

Street: 3327 S Sam Houston Parkway Eas E-Mail: james.lovelace@marlink.com

Suite 100

City: Houston State: TX

Country: USA Zipcode: 77047–

**Attention:** James G. Lovelace **Relationship:** Other

#### **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

<del>*</del>	159. If No, indicate reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).		
<del>-</del>	Governmental Entity Noncommercial educational licensee			
	Other(please explain):			
17d.				
Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending 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:		
WB36		SESMOD2017101101136		

# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide 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)  Earth Staions on Vessels
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 Wing Non-U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:
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 applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)

## TYPE OF STATION

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

## PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
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

Ex 9 RadHaz Reports

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?

Yes No

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

O Yes No No N/A

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

- Yes No N/A

- 32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?
- Yes No N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?		
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.	Ex 7 Freq Coord	
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	Yes No	
	Ex 8 Waiver Requests	
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	Yes No	
	Ex 6 Areas of Operat	

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	Yes No  No  Ex 10 – Ext Ku Recie
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  Ex 5B.2 Ka Plots
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	Yes No  Ex 5B.1 Ka Plots
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.	Ex 5A.5 Ku Plots

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.	• Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	Yes  Ex 5A.4 Ku Plo	O No
	En official for	CS
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station? All are on Approved Space Station List	l, what administra	tion has

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.)

Applicant respectfully requests modification of WB36 License to authorize increase in power to the antenna flange and new associated specifications and emission designators for up to 500 Thrane & Thrane Sailor model TT7080A 'Sailor 800A' 0.83 meter Ku-Band antennas, 500 Intellian Model 'V150NX' 1.50 meter Ku-Band antennas and 500 Intellian model 'V85NX'

Ex 1 Narrative

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 <sup>B</sup>
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
	Ex 5A.3 Ku Plots

#### **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 application)	able response.)	
o Individual		
<ul> <li>Unincorporated Association</li> </ul>		
• Partnership		
Corporation		
O Governmental Entity		
Other (please specify)		
45. Name of Person Signing Tore Morten Olsen	46. Title of Person Signing President Maritime	
	President Maritime	
>		

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

## SATELLITE EARTH STATION AUTHORIZATIONS

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

Location of Earth Station Site

E1: Site Identifier: 2KU–BAND ESV E5. Call Sign: WB36

& VSAT

E2: Contact Name David Atabala E6. Phone 281–809–9708

Number:

E3. Street: 11707 S Sam E7. City: Houston

Houston Parkway

W

E8. County: Harris

E4. State TX E9. Zip Code 77031

E10. Area of Operation: U.S. and International Waters and CONUS, AK, HI, US&P

E11. Latitude: 0 °0 '0.0 "

E12. Longitude: 0 °0 '0.0 "

E13. Lat/Lon Coordinates are: NAD-27 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	O No	<b>⊚</b> 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 location and telephone number of the control point.	<b>⊚</b> Yes	s 0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as Ex 2 Inform. Attach			
12. Is frequency coordination required: If TES, attach a frequency coordination report as Ex 2 inform. Attach	O Yes	s 💿	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	s <b>©</b>	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.	O Ye	s 🔞	No
POINTS OF COMMUNICATION	•		
Satellite Name: PERMITTED LIST   If you selected OTHER, please enter the following:			

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

# POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

# ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
2KU–BAND ESV & VSAT	TTSA80020W	500	THRANE & THRANE	TT7080A SAILOR 800A	0.83	37.9 dBi at 11.70	
2KU–BAND ESV & VSAT	TTSA80020W	500	THRANE & THRANE	TT7080A SAILOR 800A	0.83	40.0 dBi at 14.25	
2KU–BAND ESV & VSAT	INTV150NX	500	INTELLIAN	V150NX	1.5	43.8 dBi at 12.20	
2KU–BAND ESV & VSAT	INTV150NX	500	INTELLIAN	V150NX	1.5	45.1 dBi at 14.25	
2KU–BAND ESV & VSAT	INTV85NX	500	INTELLIAN	V85NX	0.85	38.8 dBi at 11.70	
2KU–BAND ESV & VSAT	INTV85NX	500	INTELLIAN	V85NX	0.85	40.6 dBi at 14.25	
2KU–BAND ESV & VSAT	INTV80e	500	INTELLIAN	V80e	0.8	37.8 dBi at 11.70	
2KU–BAND ESV & VSAT	INTV80e	500	INTELLIAN	V80e	0.8	39.3 dBi at 14.25	

2KU–BAND ESV & VSAT	INTV100NX	500	INTELLIAN	V100NX	1.05	40.4 dBi at 11.70
2KU–BAND ESV & VSAT	INTV100NX	500	INTELLIAN	V100NX	1.05	41.6 dBi at 14.25
2KU–BAND ESV & VSAT	INTV130NX	500	INTELLIAN	V130NX	1.25	41.7 dBi at 11.70
2KU–BAND ESV & VSAT	INTV130NX	500	INTELLIAN	V130NX	1.25	43.1 dBi at 14.25
2KU–BAND ESV & VSAT	V240MTKU	500	INTELLIAN	V240MTKU	2.4	46.5 dBi at 11.80
2KU–BAND ESV & VSAT	V240MTKU	500	INTELLIAN	V240MTKU	2.4	47.4 dBi at 14.25
2KU–BAND ESV & VSAT	V240MTG2KU	500	INTELLIAN	V240MTGen2K U	2.4	47.3 dBi at 11.80
2KU–BAND ESV & VSAT	V240MTG2KU	500	INTELLIAN	V240MTGen2K U	2.4	48.2 dBi at 14.25
2KU–BAND ESV & VSAT	2400KU	500	SEA TEL	2400KU	2.4	46.7 dBi at 11.70
2KU–BAND ESV & VSAT	2400KU	500	SEA TEL	2400KU	2.4	48.1 dBi at 14.25

Id	Diameter	E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
TTSA80020W	0.83/0.83	0.0	0.0	0.0	18.2	0.0	52.6
INTV150NX	1.5/1.5	0.0	0.0	0.0	151.4	0.0	66.9

INTV85NX	0.85/0.85	0.0	0.0	0.0	20.0	0.0	53.61
INTV80e	0.8/0.8	0.0	0.0	0.0	5.7	0.0	46.85
INTV100NX	1.05/1.05	0.0	0.0	0.0	21.4	0.0	54.9
INTV130NX	1.25/1.25	0.0	0.0	0.0	34.0	0.0	58.41
V240MTKU	2.4/2.4	0.0	0.0	0.0	263.0	0.0	71.6
V240MTG2KU	2.4/2.4	0.0	0.0	0.0	295.1	0.0	72.9
2400KU	2.4/2.4	0.0	0.0	0.0	260.0	0.0	72.24

## FREQUENCY

	E43/44. Frequency Bands (MHz)	E45. T/R Mode			EIRP per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
TTSA80020W	10700 12200	R	Horizontal and Vertical	44K8G1W	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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

	i		1		1	1
TTSA80020W	10700	R	Horizontal and	44K8G7W	0.0	0.0
	12200		Vertical			

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its		
T	RAFFIC USING QP	SK AND BPSK MO	DULATION					
TTSA80020W	10700 12200	R	Horizontal and Vertical	54M0G1W	0.0	0.0		
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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
TTSA80020W	10700 12200	R	Horizontal and Vertical	54M0G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
TTSA80020W	14000 14500	Т	Horizontal and Vertical	44K8G1W	31.3	20.8		

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	n this box, please go t	to the end of the form	to view it in its		
DIGITAL TR	RAFFIC USING QP	SK AND BPSK MC	DULATION					
TTSA80020W	14000 14500	Т	Horizontal and Vertical	44K8G7W	31.3	20.8		
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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
TTSA80020W	14000 14500	Т	Horizontal and Vertical	5M00G1W	51.7	20.8		
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	n this box, please go t	to the end of the form	to view it in its		
DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
TTSA80020W	14000 14500	Т	Horizontal and Vertical	5M00G7W	51.7	20.8		

E50. Modulatior entirety.)	and Services (If the	e complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its		
	RAFFIC USING QP	SK AND BPSK MO	DULATION					
INTV150NX	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0		
entirety.)  DIGITAL TE	E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV150NX	10700 12200	R	Horizontal and Vertical	44K8G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
INTV150NX	10700 12200	R	Horizontal and Vertical	54M0G1W	0.0	0.0		

E50. Modulation	n and Services (If the	ne complete description	on does not appear in	n this box, please go	to the end of the form	to view it in its		
entirety.)  DIGITAL TE	RAFFIC USING QP	SK AND BPSK MC	DULATION					
INTV150NX	10700 12200	R	Horizontal and Vertical	54M0G7W	0.0	0.0		
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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV150NX	14000 14500	Т	Horizontal and Vertical	44K8G1W	41.6	31.1		
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
INTV150NX	14000 14500	Т	Horizontal and Vertical	44K8G7W	41.6	31.1		

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its	
	RAFFIC USING QF	SK AND BPSK MO	DULATION				
INTV150NX	14000 14500	Т	Horizontal and Vertical	50M0G1W	66.9	25.9	
entirety.)  DIGITAL TH	RAFFIC USING QF	SK AND BPSK MO	DULATION				
INTV150NX	14000 14500	Т	Horizontal and Vertical	50M0G7W	66.9	25.9	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV85NX	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0	

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its	
	RAFFIC USING QF	SK AND BPSK MO	DULATION				
INTV85NX	10700 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0	
entirety.)  DIGITAL TE	RAFFIC USING QF	SK AND BPSK MO	DULATION				
INTV85NX	10700 12200	R	Horizontal and Vertical	54M0G1W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV85NX	10700 12200	R	Horizontal and Vertical	54M0G7W	0.0	0.0	

E50. Modulation entirety.)	n and Services (If t	he complete descripti	on does not appear i	n this box, please go	to the end of the form	n to view it in its	
	RAFFIC USING Q	PSK AND BPSK MO	DDULATION				
INTV85NX	14000 14500	Т	Horizontal and Vertical	2M10G1W	49.7	22.5	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV85NX	14000 14500	Т	Horizontal and Vertical	2M10G7W	49.7	22.5	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV85NX	14000 14500	Т	Horizontal and Vertical	44K8G1W	33.0	22.5	

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its	
	RAFFIC USING QE	SK AND BPSK MC	DULATION				
INTV85NX	14000 14500	Т	Horizontal and Vertical	44K8G7W	33.0	22.5	
entirety.)  DIGITAL TE	RAFFIC USING QE	PSK AND BPSK MC	DULATION				
INTV80e	10700 12200	R	Horizontal and Vertical	44K8G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATIO							
INTV80e	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0	

E50. Modulation	and Services (If the	ne complete description	on does not appear ir	this box, please go t	to the end of the form	to view it in its	
DIGITAL TF	RAFFIC USING QP	SK AND BPSK MO	DULATION				
INTV80e	10700 12200	R	Horizontal and Vertical	54M0G1W	0.0	0.0	
E50. Modulation entirety.)  DIGITAL TF	RAFFIC USING QP			i tilis box, piease go t	to the end of the form	to view it in its	
INTV80e	10700 12200	R	Horizontal and Vertical	54M0G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV80e	14000 14500	Т	Horizontal and Vertical	2M10G1W	46.85	19.65	

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its	
	RAFFIC USING QP	SK AND BPSK MC	DULATION				
INTV80e	14000 14500	Т	Horizontal and Vertical	2M10G7W	46.85	19.65	
E50. Modulation entirety.)  DIGITAL TF	RAFFIC USING QP			Tillis box, piease go t	to the end of the form	to view it in its	
INTV80e	14000 14500	Т	Horizontal and Vertical	44K8G1W	30.99	20.5	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV80e	14000 14500	Т	Horizontal and Vertical	44K8G7W	30.99	20.5	

E50. Modulation entirety.)	n and Services (If the	he complete descripti	on does not appear is	n this box, please go	to the end of the form	to view it in its	
	RAFFIC USING QE	PSK AND BPSK MC	DULATION				
INTV100NX	10700 12200	R	Horizontal and Vertical	44K8G1W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV100NX	10700 12200	R	Horizontal and Vertical	44K8G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV100NX	10700 12200	R	Horizontal and Vertical	54M0G1W	0.0	0.0	

E50. Modulatio	on and Services (If	the complete description	ion does not appear	in this box, please	go to the end of the	he form to view it in its	
entirety.)  DIGITAL T	RAFFIC USING Q	PSK AND BPSK MO	DDULATION				
INTV100NX	10700 12200	R	Horizontal and Vertical	54M0G7W	0.0	0.0	
E50. Modulation entirety.)  DIGITAL T	`	PSK AND BPSK MO		in this box, please g	go to the end of t	the form to view it in its	
INTV100NX	14000 14500	Т	Horizontal and Vertical	44K8G1W	35.1	24.6	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV100NX	14000 14500	Т	Horizontal and Vertical	44K8G7W	35.1	24.6	

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear i	n this box, please go	to the end of the form	to view it in its
DIGITAL T	RAFFIC USING QF	SK AND BPSK MC	DULATION			
INTV100NX	14000 14500	Т	Horizontal and Vertical	5M00G1W	54.9	23.9
E50. Modulation entirety.)  DIGITAL TI	RAFFIC USING QF			71 0	to the end of the form	
INTV100NX	14000 14500	Т	Horizontal and Vertical	5M00G7W	54.9	23.9
E50. Modulation entirety.)	n and Services (If the	ne complete descripti	on does not appear i	n this box, please go	to the end of the form	to view it in its
DIGITAL T	RAFFIC USING QF	SK AND BPSK MC	DULATION			
INTV130NX	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear ir	this box, please go to	o the end of the form	to view it in its	
	RAFFIC USING QP	SK AND BPSK MO	DULATION				
INTV130NX	10700 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0	
DIGITAL TE	RAFFIC USING QP	SK AND BPSK MO	DULATION				
INTV130NX	10700 12200	R	Horizontal and Vertical	54M0G7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
INTV130NX	10700 12200	R	Horizontal and Vertical	5M00G1W	0.0	0.0	

E50. Modulatior entirety.)	and Services (If the	ne complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
	RAFFIC USING QF	SK AND BPSK MC	DULATION			
INTV130NX	14000 14500	Т	Horizontal and Vertical	44K8G1W	40.3	29.1
entirety.)  DIGITAL TE	RAFFIC USING QF	SK AND BPSK MC	DULATION			
INTV130NX	14000 14500	Т	Horizontal and Vertical	44K8G7W	40.3	29.1
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION						
INTV130NX	14000 14500	Т	Horizontal and Vertical	8M00G1W	58.41	25.41

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its	
T	RAFFIC USING QP	SK AND BPSK MO	DULATION				
INTV130NX	14000 14500	Т	Horizontal and Vertical	8M00G7W	58.41	25.41	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
V240MTKU	10700 12200	R	Horizontal and Vertical	200MG1W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION							
V240MTKU	10700 12200	R	Horizontal and Vertical	200MG7W	0.0	0.0	

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
<u> </u>	RAFFIC USING QP	SK AND BPSK MO	DULATION			
V240MTKU	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
E50. Modulation entirety.)  DIGITAL TR	and Services (If the RAFFIC USING QP			this box, please go t	o the end of the form	to view it in its
V240MTKU	10700 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0
E50. Modulation entirety.)  DIGITAL TF	a and Services (If the			this box, please go t	o the end of the form	to view it in its
V240MTKU	14000 14500	Т	Horizontal and Vertical	100MG1W	71.6	27.6

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
DIGITAL TR	RAFFIC USING QP	SK AND BPSK MO	DULATION			
V240MTKU	14000 14500	Т	Horizontal and Vertical	100MG7W	71.6	27.6
E50. Modulation entirety.)  DIGITAL TR	RAFFIC USING QP			Tuns oox, preuse go t	o the end of the form	
V240MTKU	14000 14500	Т	Horizontal and Vertical	44K8G1W	39.5	29.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	n this box, please go t	o the end of the form	to view it in its
DIGITAL TR	RAFFIC USING QP	SK AND BPSK MO	DULATION			
V240MTKU	14000 14500	Т	Horizontal and Vertical	44K8G7W	39.5	29.0

E50. Modulation entirety.)	on and Services (	(If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL T	RAFFIC USING	QPSK AND BF	SK MODULATION			
V240MTG2KU	10700 12200	R	Horizontal and Vertical	200MG1W	0.0	0.0
E50. Modulation entirety.)	on and Services (	(If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL 1	WALLTO OPING	ALOK WIND BE	SK MODULATION			
V240MTG2KU	10700 12200	R	Horizontal and Vertical	200MG7W	0.0	0.0
E50. Modulation entirety.)	on and Services (	(If the complete d	escription does not appear	in this box, please	go to the end of	the form to view it in its
DIGITAL T	RAFFIC USING	QPSK AND BE	SK MODULATION			
V240MTG2KU						

E50. Modulation entirety.)	on and Services (	(If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
DIGITAL T	RAFFIC USING	QPSK AND BE	PSK MODULATION			
V240MTG2KU	10700 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T			PSK MODULATION	in this box, please	go to the end of t	he form to view it in its
V240MTG2KU	14000 14500	Т	Horizontal and Vertical	100MG1W	72.9	28.9
E50. Modulation entirety.)	on and Services (	(If the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
DIGITAL T	RAFFIC USING	QPSK AND BE	PSK MODULATION			
V240MTG2KU	14000 14500	Т	Horizontal and Vertical	100MG7W	72.9	28.9

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear ir	this box, please go t	o the end of the form	to view it in its
	RAFFIC USING QP	SK AND BPSK MC	DULATION			
V240MTG2KU	14000 14500	Т	Horizontal and Vertical	44K8G1W	43.0	32.5
E50. Modulation entirety.)  DIGITAL THE	RAFFIC USING QF			Tuns oox, piease go t	o the end of the form	to view it in its
V240MTG2KU	14000 14500	Т	Horizontal and Vertical	44K8G7W	43.0	32.5
E50. Modulation entirety.)  DIGITAL TI	n and Services (If the			n this box, please go t	o the end of the form	to view it in its
2400KU	10700 12200	R	Horizontal and Vertical	200MG1W	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
DIGITAL TR	AFFIC USING QP	SK AND BPSK MO	DULATION			
2400KU	10700 12200	R	Horizontal and Vertical	200MG7W	0.0	0.0
E50. Modulation entirety.)  DIGITAL TR	and Services (If the			this box, please go to	o the end of the form	to view it in its
2400KU	10700 12200	R	Horizontal and Vertical	44K8G1W	0.0	0.0
E50. Modulation entirety.)  DIGITAL TR	and Services (If the			this box, please go to	o the end of the form	to view it in its
2400KU	10700 12200	R	Horizontal and Vertical	44K8G7W	0.0	0.0

E50. Modulation	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
entirety.)  DIGITAL TR	AFFIC USING QP	SK AND BPSK MO	DULATION			
2400KU	14000 14500	Т	Horizontal and Vertical	100MG1W	72.24	28.27
E50. Modulation entirety.)  DIGITAL TR	AFFIC USING QP			this box, please go to	o the end of the form	to view it in its
2400KU	14000 14500	Т	Horizontal and Vertical	100MG7W	72.24	28.27
E50. Modulation entirety.)  DIGITAL TR	and Services (If the			this box, please go to	o the end of the form	to view it in its
2400KU	14000 14500	Т	Horizontal and Vertical	44K8G1W	43.09	32.6

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

			1		1	
2400KU	14000	Т	Horizontal and	44K8G7W	43.09	132.6
240010	14000	1	110112011tai and	T-11007 11	13.07	32.0
	14500		Vertical			
	14300		verticai			

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

## 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	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
TTSA80020W	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0

INTV150NX	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
INTV85NX	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
INTV80e	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
INTV100NX	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
INTV130NX	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
V240MTKU	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0
V240MTG2K U	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0

2400KU	Geostationary	10700 12200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	14000 14500	0.0/0.0	0.0	5.0	0.0	5.0	0.0

## REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number			
NOTE: Please enter the callsign of the contro 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 Station Site E1: Site Identifier: 4KA-BAND ESV E5. Call Sign: **WB36** & VSAT E2: Contact Name David Atabala E6. Phone 281-809-9708 Number: E3. Street: 11707 S Sam E7. City: Houston Houston Parkway W E8. County: Harris E4. State TXE9. Zip Code 77031 E10. Area of Operation: U.S. and International Waters and CONUS, AK, HI, US&P E11. Latitude: 0.0° 0° 0" E12. Longitude: 0 °0 '0.0 " E13. Lat/Lon Coordinates are: **⋒** NAD-83 NAD-27 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>O</b> Yes	O No	<b>⊚</b> 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 locar point.	tion and telephone number of the control	Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coo	rdination report as Ex 5A.1 Ku Plots	O Yes	No
E19. Is coordination with another country required? If YES, attach the n 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?Q E20 Exhibit FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL FAPPLICATION.	a's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: PERMITTED LIST   If you selected OTHER, plea	ase enter the following:		
E21. Common Name:			
E23. Orbit Location:			
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	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
4KA-BAND ESV & VSAT	2400KA	500	SEA TEL	2400KA	2.4	50.6 dBi at 19.20
4KA-BAND ESV & VSAT	2400KA	500	SEA TEL	2400KA	2.4	54.1 dBi at 29.00
4KA–BAND ESV & VSAT	V240MTKA	500	INTELLIAN	V240MTKA	2.4	48.5 dBi at 18.7
4KA–BAND ESV & VSAT	V240MTKA	500	INTELLIAN	V240MTKA	2.4	51.6 dBi at 29.0
4KA-BAND ESV & VSAT	V240MTG2KA	500	INTELLIAN	V240MTGen2K A	2.4	48.5 dBi at 18.7
4KA–BAND ESV & VSAT	V240MTG2KA	500	INTELLIAN	V240MTGen2K A	2.4	51.6 dBi at 29.0

Id	Diameter	E35. Above Ground Level (meters)	` ′	Height Above Ground Level	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
2400KA	2.4/2.4	0.0	0.0	0.0	79.4	0.0	73.09
V240MTKA	2.4/2.4	0.0	0.0	0.0	66.1	0.0	69.8
V240MTG2KA	2.4/2.4	0.0	0.0	0.0	74.1	0.0	70.3

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)
2400KA	17800 19400	R	Left and Right Circular	200MG1W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T	n and Services (If the			n this box, please go	o to the end of the form	to view it in its
2400KA E50. Modulation	17800 19400 n and Services (If the	R ne complete descrip	Left and Right Circular tion does not appear in	200MG7W this box, please gr	0.0 to the end of the form	0.0 to view it in its
entirety.)  DIGITAL T	RAFFIC USING QE	PSK AND BPSK M	MODULATION			

E50. Modul entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
DIGITA	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
2400KA	17800 19400	R	Left and Right Circular	44K8G7W	0.0	0.0
E50. Modul entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
	TRAFFIC USIN					
2400KA	19600 20200	R	Left and Right Circular	200MG1W	0.0	0.0
E50. Modul entirety.)	ation and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
DIGITA	TRAFFIC USING	G QPSK AND BP	SK MODULATION			
2400KA	19600 20200	R	Left and Right Circular	200MG7W	0.0	0.0

E50. Modulation	n and Services (If	the complete descripti	on does not appear i	n this box, please g	o to the end of the	e form to view it in its
entirety.)  DIGITAL T	RAFFIC USING Q	PSK AND BPSK MO	DDULATION			
2400KA	19600 20200	R	Left and Right Circular	44K8G1W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T		PSK AND BPSK MO		n this box, please g	o to the end of the	e form to view it in its
2400KA	19600 20200	R	Left and Right Circular	44K8G7W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T		the complete descripti		n this box, please g	o to the end of the	e form to view it in its
2400KA	28350 29100	Т	Left and Right Circular	100MG1W	73.09	29.12

E50. Modulatio entirety.)	n and Services (	If the complete d	escription does not appear	in this box, please	go to the end of th	e form to view it in	ı its
DIGITAL T	RAFFIC USING	QPSK AND BE	SK MODULATION				
2400KA	28350 29100	Т	Left and Right Circular	100MG7W	73.09	29.12	
entirety.)  DIGITAL T	RAFFIC USING	QPSK AND BE	PSK MODULATION				
2400KA	28350 29100	Т	Left and Right Circular	44K8G1W	68.09	57.6	
E50. Modulatio entirety.)	n and Services (	If the complete d	escription does not appear	in this box, please	go to the end of th	ne form to view it in	ı its
DIGITAL T	RAFFIC USING	QPSK AND BE	PSK MODULATION				
2400KA	28350 29100	Т	Left and Right Circular	44K8G7W	68.09	57.6	

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
	RAFFIC USING QE	SK AND BPSK MC	DULATION			
2400KA	29250 30000	Т	Left and Right Circular	100MG1W	73.09	29.12
E50. Modulation entirety.)  DIGITAL THE	RAFFIC USING QF			tuns oox, piease go t	o the end of the form	to view it in its
2400KA	29250 30000	Т	Left and Right Circular	100MG7W	73.09	29.12
E50. Modulation entirety.)  DIGITAL TI	n and Services (If the			this box, please go t	o the end of the form	to view it in its
2400KA	29250 30000	Т	Left and Right Circular	44K8G1W	68.09	57.6

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
T	AFFIC USING QP	SK AND BPSK MO	DULATION			
2400KA	29250 30000	Т	Left and Right Circular	44K8G7W	68.09	57.6
E50. Modulation entirety.)  DIGITAL TR	AFFIC USING QP			tills box, picase go t	o the end of the form	to view it in its
V240MTKA	17800 19400	R	Left and Right Circular	200MG1W	0.0	0.0
E50. Modulation entirety.)	and Services (If the			this box, please go to	o the end of the form	to view it in its
V240MTKA	17800 19400	R	Left and Right Circular	200MG7W	0.0	0.0

E50. Modulation	n and Services (If t	he complete descripti	on does not appear in	n this box, please go t	to the end of the form	to view it in its
DIGITAL T	RAFFIC USING QE	PSK AND BPSK MC	DULATION			
V240MTKA	17800 19400	R	Left and Right Circular	44K8G1W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T	RAFFIC USING QE			Tulis box, piease go t	to the end of the form	to view it in its
V240MTKA	17800 19400	R	Left and Right Circular	44K8G7W	0.0	0.0
E50. Modulation entirety.)  DIGITAL T	n and Services (If t			n this box, please go t	to the end of the form	to view it in its
V240MTKA	19600 20200	R	Left and Right Circular	200MG1W	0.0	0.0

E50. Modulatio entirety.)	n and Services (If the	ne complete description	on does not appear in	this box, please go t	to the end of the form	to view it in its
	RAFFIC USING QE	SK AND BPSK MC	DULATION			
V240MTKA	19600 20200	R	Left and Right Circular	200MG7W	0.0	0.0
E50. Modulatio entirety.)  DIGITAL T	RAFFIC USING QE			i this box, please go t	to the end of the form	to view it in its
V240MTKA	19600 20200	R	Left and Right Circular	44K8G1W	0.0	0.0
E50. Modulatio entirety.)  DIGITAL T	n and Services (If the RAFFIC USING QF			n this box, please go t	to the end of the form	to view it in its
V240MTKA	19600 20200	R	Left and Right Circular	44K8G7W	0.0	0.0

E50. Modulation entirety.)	n and Services (If	the complete description	on does not appear	in this box, please g	o to the end of th	ne form to view it in its
	RAFFIC USING Q	PSK AND BPSK MO	DDULATION			
V240MTKA	28350 29100	Т	Left and Right Circular	100MG1W	69.8	25.8
entirety.)  DIGITAL TE	RAFFIC USING Q	PSK AND BPSK MO	DDULATION			
V240MTKA	28350 29100	Т	Left and Right Circular	100MG7W	69.8	25.8
	RAFFIC USING Q	PSK AND BPSK MO	DDULATION			ne form to view it in its
V240MTKA	28350 29100	Т	Left and Right Circular	44K8G1W	62.1	51.6

E50. Modulatio entirety.)	on and Services (If	the complete descript	ion does not appear	in this box, please	go to the end of the	he form to view it in its	3
DIGITAL T	RAFFIC USING Ç	PSK AND BPSK M	ODULATION				
V240MTKA	28350 29100	Т	Left and Right Circular	44K8G7W	62.1	51.6	
entirety.)  DIGITAL T	RAFFIC USING Ç	PSK AND BPSK M	ODULATION				
V240MTKA	29250 30000	Т	Left and Right Circular	100MG1W	69.8	25.8	
E50. Modulatio entirety.)	on and Services (If	the complete descript	ion does not appear	in this box, please	go to the end of the	he form to view it in its	3
DIGITAL T	RAFFIC USING Ç	PSK AND BPSK M	ODULATION				
V240MTKA	29250 30000	Т	Left and Right Circular	100MG7W	69.8	25.8	

E50. Modulatio	n and Services (If t	he complete descripti	on does not appear i	n this box, please go	to the end of the form	to view it in its
entirety.)  DIGITAL T	RAFFIC USING QI	PSK AND BPSK MC	DULATION			
V240MTKA	29250 30000	Т	Left and Right Circular	44K8G1W	62.1	51.6
entirety.)  DIGITAL T	RAFFIC USING QI	PSK AND BPSK MC	DULATION			
V240MTKA	29250 30000	Т	Left and Right Circular	44K8G7W	62.1	51.6
E50. Modulatio entirety.)  DIGITAL T	n and Services (If t			n this box, please go t	to the end of the form	to view it in its
V240MTG2KA	17800 19400	R	Left and Right Circular	200MG1W	0.0	0.0

E50. Modulation entirety.)	n and Services (If the	e complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its		
	RAFFIC USING QP	SK AND BPSK MO	DULATION					
V240MTG2KA	17800 19400	R	Left and Right Circular	200MG7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	17800 19400	R	Left and Right Circular	44K8G1W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	17800 19400	R	Left and Right Circular	44K8G7W	0.0	0.0		

E50. Modulation entirety.)	n and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its		
	RAFFIC USING QP	SK AND BPSK MO	DULATION					
V240MTG2KA	19600 20200	R	Left and Right Circular	200MG1W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	19600 20200	R	Left and Right Circular	200MG7W	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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	19600 20200	R	Left and Right Circular	44K8G1W	0.0	0.0		

E50. Modulatio entirety.)	n and Services (If t	he complete descripti	on does not appear i	n this box, please go	to the end of the form	to view it in its
	RAFFIC USING Q	PSK AND BPSK MO	DULATION			
V240MTG2KA	19600 20200	R	Left and Right Circular	44K8G7W	0.0	0.0
E50. Modulatio entirety.)  DIGITAL T		PSK AND BPSK MO		it tills box, picase go	to the end of the form	to view it iii its
V240MTG2KA	28350 29100	T	Left and Right Circular	100MG1W	70.3	26.3
E50. Modulatio entirety.)  DIGITAL T		he complete descripti		n this box, please go	to the end of the form	to view it in its
V240MTG2KA	28350 29100	Т	Left and Right Circular	100MG7W	70.3	26.3

E50. Modulatio entirety.)	n and Services (If t	he complete descripti	on does not appear i	n this box, please go	to the end of the for	m to view it in its		
	RAFFIC USING Q	PSK AND BPSK MC	DULATION					
V240MTG2KA	28350 29100	Т	Left and Right Circular	44K8G1W	59.6	48.4		
entirety.)  DIGITAL T	RAFFIC USING Q	PSK AND BPSK MO	DULATION					
V240MTG2KA	28350 29100	Т	Left and Right Circular	44K8G7W	59.6	48.4		
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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	29250 30000	Т	Left and Right Circular	100MG1W	70.3	26.3		

E50. Modulation entirety.)	n and Services (If	the complete descript	ion does not appear	in this box, please go	o to the end of the	form to view it in its		
	RAFFIC USING Q	PSK AND BPSK MO	DDULATION					
V240MTG2KA	29250 30000	Т	Left and Right Circular	100MG7W	70.3	26.3		
entirety.)  DIGITAL T	RAFFIC USING Q	PSK AND BPSK MO	DDULATION					
V240MTG2KA	29250 30000	Т	Left and Right Circular	44K8G1W	59.6	48.4		
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.)  DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION								
V240MTG2KA	29250 30000	Т	Left and Right Circular	44K8G7W	59.6	48.4		

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

# 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)
2400KA	Geostationary	17800 20200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	28350 30000	0.0/0.0	0.0	5.0	0.0	5.0	0.0
V240MTKA	Geostationary	17800 20200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	28350 30000	0.0/0.0	0.0	5.0	0.0	5.0	0.0
V240MTG2K A	Geostationary	17800 20200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	28350 30000	0.0/0.0	0.0	5.0	0.0	5.0	0.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign WB36 NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E66. Phone Number 346–223–0396			
E62. Street Address 3327 S. Sam Houston Parkway E Suite 100				
E63. City Houston	E68. County Harris		E67/68. State/Country TX/ USA	E64. Zip Code 77047

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#### 43. Description. (Summarize the nature of the application and the services to be provided).

Applicant respectfully requests modification of WB36 License to authorize increase in power to the antenna flange and new associated specifications and emission designators for up to 500 Thrane & Thrane Sailor model TT7080A 'Sailor 800A' 0.83 meter Ku-Band antennas, 500 Intellian Model 'V150NX' 1.50 meter Ku-Band antennas and 500 Intellian model 'V85NX' 0.85 meter Ku-Band antennas and to add to license new authorizations for up to 500 Intellian model 'V80e' 0.80 meter Ku-band antennas, 500 Intellian model 'V100NX' 1.05 Meter Ku-band antennas, 500 Intellian model 'V130NX' 1.25 Meter Ku-band antennas, 500 Intellian model 'V240MTKu' 2.4 meter Ku-band antennas, 500 Intellian model 'V240MTKa' 2.4 Meter Ka-band Antennas, 500 Intellian model 'V240MTGen2Ku' 2.4 meter Ku-band antennas, 500 Intellian model 'V240MTGen2Ku' 2.4 meter Ka-band Antennas, 500 SeaTel model '2400Ku' 2.4 meter Ku-band antennas and 500 SeaTel model '2400Ka 2.4 Meter Ka-band antennas. Please see Exhibit 1 for details and Showing of Compliance with Application Requirements