Approved by OMB
3060−0678

Date & Time Filed: Jul 7 2022 2:22:18:130PM
File Number: SES−MOD−INTR2022−02194

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD − MAIN FORM FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	FCC Use Only

APPLICANT INFORMATION
Enter a description of this application to identify it on the main menu:
Add 2 Intellian & 5 KNS Ku−band, & 2 Intellian & 1 SeaTel C−band ESV Antennas

1−8. Legal Name of Applicant

Name:	Marlink, Inc.	**Phone Number:**	240−595−0655
DBA Name:		**Fax Number:**	713−946−0403
Street:	3327 South Sam Houston Parkway East Suite 100	**E−Mail:**	Tom.Collins@marlink.com
City:	Houston	**State:**	TX
Country:	USA	**Zipcode:**	77047 −
Attention:	Tom Collins		

9−16. Name of Contact Representative

Name:	James G. Lovelace	**Phone Number:**	281−606−9117
Company:	Marlink−ITC, Inc.	**Fax Number:**	713−946−0403
Street:	3327 South Sam Houston Parkway Suite 100	**E−Mail:**	james.lovelace@marlink.com
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 b3. Amendment to a Pending Application b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive−Only Station Using Non−U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non−U.S. Licensed Satellite to Provide Service in the United States (N/A) b10. Other (Please specify) (N/A) b11. Application for Earth Station to Access a Non−U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States (N/A) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry

17c. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Noncommercial educational licensee Other(please explain):
17d. Fee Classification

18. If this filing is in reference to an existing station, enter: (a) Call sign of station: WB36	19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number: (a) Date pending application was filed: (b) File number: SESMOD2020052800575

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 only one. Common Carrier Non−Common Carrier	22. If earth station applicant, check all that apply. Using U.S. licensed satellites Using Non−U.S. licensed satellites

23. If applicant is providng 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. 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 & countries)
j −− authorization to change Points of Communication (satellites & countries)
k −− authorization for facilities for which environmental assessment and radiation hazard reporting is required
l −− 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 Exhibit 8

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?	Yes 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?	Yes No 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.	Ex 3 − Ownership

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 Exhibit 9 − Waiver
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 Exhibit 4A.1
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 Exhibit 4A.2
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition?If Yes, attach as an exhibit, an explanation of circumstances	Yes No Exhibit 6−Operations
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 Informative Attach

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 5B.2
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 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 No Exhibit 5B.1
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?All are on Approved Space Station List	

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.)

Marlink−ITC, Inc. requests that authorization for the following new ESV remote antennas be added to the WB36 license − 500 Intellian Model V45C 0.45 Meter Ku−band Antennas, 500 Intellian Model V60E 0.65 Meter Ku−band Antennas, 500 KNS Model C4 0.45 Meter Ku−band Antennas, 500 KNS Model Z6 0.61 Meter Ku−band Antennas, 500 KNS Model Z7 0.75 Meter Ku−

Exhibit 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.	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.	B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	C
	Exhibit 5B.3

CERTIFICATION

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

44. Applicant is a (an): (Choose the button next to applicable response.)

Individual
Unincorporated Association
Partnership
Corporation
Governmental Entity
Other (please specify)

45. Name of Person Signing	46. Title of Person Signing
Tore Morten Olsen	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 & VSAT	E5. Call Sign:	WB36
E2: Contact Name	Dave Atabala	E6. Phone Number:	281−809−9708
E3. Street:	3327 S Sam Houston Parkway East	E7. City:	Houston
	Suite 100	E8. County:	Harris
E4. State	TX	E9. Zip Code	77047
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.	Yes No 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?	Yes No N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	Yes No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Yes No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	Yes No
E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	Yes 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>	E41/42. Antenna Gain Transmint and/or Recieve (____dBi at _____GHz)	
2KU−BAND ESV & VSAT	INTV45C	500	INTELLIAN	v45C	0.45	32.9 dBi at 11.70	
2KU−BAND ESV & VSAT	INTV45C	500	INTELLIAN	v45C	0.45	34.3 dBi at 14.25	
2KU−BAND ESV & VSAT	INTV60E	500	INTELLIAN	v60E	0.65	36.3 dBi at 11.70	
2KU−BAND ESV & VSAT	INTV60E	500	INTELLIAN	v60E	0.65	37.4 dBi at 14.25	
2KU−BAND ESV & VSAT	KNSC4	500	KNS	C4	0.45	32.87 dBi at 11.75	
2KU−BAND ESV & VSAT	KNSC4	500	KNS	C4	0.45	33.88 dBi at 14.25	
2KU−BAND ESV & VSAT	KNSZ6	500	KNS	Z6MK4/Z6MK2	0.61	35.46 dBi at 11.75	
2KU−BAND ESV & VSAT	KNSZ6	500	KNS	Z6MK4/Z6MK2	0.61	37.04 dBi at 14.25	
2KU−BAND ESV & VSAT	KNSZ7	500	KNS	Z7MK4/Z7MK3 /Z7MK2	0.75	37.21 dBi at 11.75	
2KU−BAND ESV & VSAT	KNSZ7	500	KNS	Z7MK4/Z7MK3 /Z7MK2	0.75	38.97 dBi at 14.25	
2KU−BAND ESV & VSAT	KNSZ8	500	KNS	Z8MK4/Z8MK3 /Z8MK2	0.83	37.72 dBi at 11.75	

2KU−BAND ESV & VSAT	KNSZ8	500	KNS	Z8MK4/Z8MK3 /Z8MK2	0.83	39.6 dBi at 14.25	
2KU−BAND ESV & VSAT	KNSZ10	500	KNS	Z10MK4/Z10M K3/Z10MK2	1.0	39.75 dBi at 11.75	
2KU−BAND ESV & VSAT	KNSZ10	500	KNS	Z10MK4/Z10M K3/Z10MK2	1.0	41.15 dBi at 14.25	

E28. Antenna Id	**E33/34. Diameter Minor/Major (meters)**	**E35. Above Ground Level (meters)**	**E36. Above Sea Level(meters)**	**E37. Building Height Above Ground Level (meters)**	**E38. Total Input Power at antenna flange (Watts)**	**E39. Maximum Antenna Height Above Rooftop (meters)**	**E40. Total EIRP for al carriers(dBW)**
INTV45C	0.45/0.45	0.0	0.0	0.0	5.75	0.0	41.89
INTV60E	0.65/0.65	0.0	0.0	0.0	5.75	0.0	44.99
KNSC4	0.45/0.45	0.0	0.0	0.0	5.2	0.0	41.04
KNSZ6	0.61/0.61	0.0	0.0	0.0	6.9	0.0	45.42
KNSZ7	0.75/0.75	0.0	0.0	0.0	6.9	0.0	47.35
KNSZ8	0.83/0.83	0.0	0.0	0.0	6.9	0.0	47.98
KNSZ10	1.0/1.0	0.0	0.0	0.0	6.9	0.0	49.53

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)**
INTV45C	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

INTV45C	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

INTV45C	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

INTV45C	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

INTV45C	14000 14500	T	Horizontal and Vertical	2M10G1W	39.73	12.53

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

INTV45C	14000 14500	T	Horizontal and Vertical	2M10G7W	39.73	12.53

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

INTV45C	14000 14500	T	Horizontal and Vertical	44K8G1W	23.02	12.53

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

INTV45C	14000 14500	T	Horizontal and Vertical	44K8G7W	23.02	12.53

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

INTV60E	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

INTV60E	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

INTV60E	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

INTV60E	10700 12200	T	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

INTV60E	14000 14500	T	Horizontal and Vertical	2M10G1W	43.1	15.9

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

INTV60E	14000 14500	T	Horizontal and Vertical	2M10G7W	43.1	15.9

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

INTV60E	14000 14500	T	Horizontal and Vertical	44K8G1W	26.39	15.9

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

INTV60E	14000 14500	T	Horizontal and Vertical	44K8G7W	26.39	15.9

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

KNSC4	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

KNSC4	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

KNSC4	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

KNSC4	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

KNSC4	14000 14500	T	Horizontal and Vertical	2M10G1W	38.73	11.53

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

KNSC4	14000 14500	T	Horizontal and Vertical	2M10G7W	38.73	11.53

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

KNSC4	14000 14500	T	Horizontal and Vertical	44K8G1W	22.02	11.53

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

KNSC4	14000 14500	T	Horizontal and Vertical	44K8G7W	22.02	11.53

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

KNSZ6	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

KNSZ6	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

KNSZ6	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

KNSZ6	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

KNSZ6	14000 14500	T	Horizontal and Vertical	2M10G1W	42.05	14.85

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

KNSZ6	14000 14500	T	Horizontal and Vertical	2M10G7W	42.05	14.85

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

KNSZ6	14000 14500	T	Horizontal and Vertical	44K8G1W	25.34	14.85

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

KNSZ6	14000 14500	T	Horizontal and Vertical	44K8G7W	25.34	14.85

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

KNSZ7	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

KNSZ7	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

KNSZ7	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

KNSZ7	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

KNSZ7	14000 14500	T	Horizontal and Vertical	2M10G1W	44.31	17.11

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

KNSZ7	14000 14500	T	Horizontal and Vertical	2M10G7W	44.31	17.11

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

KNSZ7	14000 14500	T	Horizontal and Vertical	44K8G1W	27.6	17.11

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

KNSZ7	14000 14500	T	Horizontal and Vertical	44K8G7W	27.6	17.11

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

KNSZ8	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

KNSZ8	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

KNSZ8	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

KNSZ8	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

KNSZ8	14000 14500	T	Horizontal and Vertical	2M10G1W	46.27	19.07

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

KNSZ8	14000 14500	T	Horizontal and Vertical	2M10G7W	46.27	19.07

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

KNSZ8	14000 14500	T	Horizontal and Vertical	44K8G1W	29.56	19.07

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

KNSZ8	14000 14500	T	Horizontal and Vertical	44K8G7W	29.56	19.07

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

KNSZ10	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

KNSZ10	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

KNSZ10	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

KNSZ10	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

KNSZ10	14000 14500	T	Horizontal and Vertical	2M10G1W	49.53	22.33

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

KNSZ10	14000 14500	T	Horizontal and Vertical	2M10G7W	49.53	22.33

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

KNSZ10	14000 14500	T	Horizontal and Vertical	44K8G1W	33.18	22.69

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

KNSZ10	14000 14500	T	Horizontal and Vertical	44K8G7W	33.18	22.69

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/Western 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)**
INTV45C	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

INTV60E	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
KNSC4	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
KNSZ6	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
KNSZ7	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
KNSZ8	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
KNSZ10	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 WB36 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	E66. Phone Number 346−223−0396
E62. Street Address 3327 S. Sam Houston Pkwy E Suite 100	

E63. City Houston	E68. County Harris	E67/68. State/Country TX/ USA	E64. Zip Code 77047

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:	1 C−BAND REMOTE ESVS	E5. Call Sign:	WB36	
E2: Contact Name	Dave Atabala	E6. Phone Number:	281−809−9708	
E3. Street:	3327 S Sam Houston Parkway East	E7. City:	Houston	
	Suite 100	E8. County:	Harris	
E4. State	TX	E9. Zip Code	77047	
E10. Area of Operation:		US AND INTL WATERS		
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.	Yes	No	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?	Yes	No	N/A

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

E18. Is frequency coordination required? If YES, attach a frequency coordination report as Exhibit 7	Yes No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	Yes No
E20. FAA Notification − (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation?Exhibit 5A.2 FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	Yes 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>	E41/42. Antenna Gain Transmint and/or Recieve (____dBi at _____GHz)	
1 C−BAND REMOTE ESVS	V240MTC	500	INTELLIAN	V240MTC	2.4	37.5 dBi at 39.1	
1 C−BAND REMOTE ESVS	V240MTC	500	INTELLIAN	V240MTC	2.4	41.1 dBi at 6.14	
1 C−BAND REMOTE ESVS	V240MT2C	500	INTELLIAN	V240MTGEN2C	2.4	38.0 dBi at 3.91	
1 C−BAND REMOTE ESVS	V240MT2C	500	INTELLIAN	V240MTGEN2C	2.4	41.6 dBi at 6.14	
1 C−BAND REMOTE ESVS	2400C	500	SEA TEL	2400C	2.4	37.3 dBi at 3.95	
1 C−BAND REMOTE ESVS	2400C	500	SEA TEL	2400C	2.4	41.1 dBi at 6.18	

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	E37. Building Height Above Ground Level (meters)	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	E40. Total EIRP for al carriers(dBW)
V240MTC	2.4/2.4	0.0	0.0	0.0	302.0	0.0	65.9
V240MT2C	2.4/2.4	0.0	0.0	0.0	338.8	0.0	66.9
2400C	2.4/2.4	0.0	0.0	0.0	309.0	0.0	65.99

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)
V240MTC	3700 4200	R	Linear and 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						
V240MTC	3700 4200	R	Linear and 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						
V240MTC	3700 4200	R	Linear and 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

V240MTC	3700	4200	R	Linear and Circular	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

V240MTC	5925	6425	T	Linear and Circular	100MG1W	65.9	21.9

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

V240MTC	5925	6425	T	Linear and Circular	100MG7W	65.9	21.9

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

V240MTC	5925	6425	T	Linear and Circular	44K8G1W	44.2	33.7

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

V240MTC	5925	6425	T	Linear and Circular	44K8G7W	44.2	33.7

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.)

DIGITAL TRAFFIC USING QPSK AND BPSK MODULATION

V240MT2C	3700	4200	R	Linear and 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

V240MT2C	3700	4200	R	Linear and 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

V240MT2C	3700	4200	R	Linear and 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

V240MT2C	3700	4200	R	Linear and Circular	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

V240MT2C	5925	6425	T	Linear and Circular	100MG1W	66.9	22.9

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

V240MT2C	5925	6425	T	Linear and Circular	100MG7W	66.9	22.9

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

V240MT2C	5925	6425	T	Linear and Circular	44K8G1W	45.8	35.3

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

V240MT2C	5925	6425	T	Linear and Circular	44K8G7W	45.8	35.3

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

2400C	3700	4200	R	Linear and 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

2400C	3700	4200	R	Linear and 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

2400C	3700	4200	R	Linear and 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

2400C	3700	4200	R	Linear and Circular	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

2400C	5925	6425	T	Linear and Circular	100MG1W	65.99	22.02

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

2400C	5925	6425	T	Linear and Circular	100MG7W	65.99	22.02

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

2400C	5925	6425	T	Linear and Circular	44K8G1W	42.99	32.5

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

2400C	5925	6425	T	Linear and Circular	44K8G7W	42.99	32.5

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

FREQUENCY COORDINATION

E28. Antenna Id	**E51. Satellite Orbit Type**	**E52/53. Frequency Limits(MHz)**	**E54/55. Range of Satellite Arc Eastern/Western 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)**
V240MTC	Geostationary	3700 4200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	5925 6425	0.0/0.0	0.0	5.0	0.0	5.0	0.0
V240MT2C	Geostationary	3700 4200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	5925 6425	0.0/0.0	0.0	5.0	0.0	5.0	0.0
2400C	Geostationary	3700 4200	0.0/0.0	0.0	5.0	0.0	5.0	0.0
	Geostationary	5925 6425	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 controlling station, not the 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).

Marlink−ITC, Inc. requests that authorization for the following new ESV remote antennas be added to the WB36 license − 500 Intellian Model V45C 0.45 Meter Ku−band Antennas, 500 Intellian Model V60E 0.65 Meter Ku−band Antennas, 500 KNS Model C4 0.45 Meter Ku−band Antennas, 500 KNS Model Z6 0.61 Meter Ku−band Antennas, 500 KNS Model Z7 0.75 Meter Ku−band Antennas, 500 KNS Model Z8 0.83 Meter Ku−band Antennas, 500 KNS Model Z10 1.0 Meter Ku−band Antennas, 500 Intellian Model V240MTC 2.4 Meter C−band Antennas, 500 Intellian Model V240MTGen2C 2.4 Meter C−band Antennas and 500 SeaTel Model 2400C 2.4 Meter C−band Antennas. Please see Exhibit 1 for details and showing of compliance with application requirements.