



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Anuvu Licensing Holdings LLC

Call Sign: E010332

Authorization Type: Renewal of License

File Number: SES-RWL-20210729-01281

Non Common Carrier

Grant date: 08/02/2021

Expiration Date: 10/06/2036

Nature of Service: Fixed Satellite Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	ESV REMOTE 5	100 UNITS U.S. and Possessions,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
2)	ESV REMOTE 6	100 UNITS U.S. and Possessions,				NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				
3)	ESV Remote 1	1.2 meter (40 Units) U.S. and Possessions,				NA 250
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
4)	ESV Remote 2	1.0 meter (100 Units) U.S. and Possessions,				NA 250
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
5)	ESV Remote 3	2.4 meter (40 Units) U.S. and Possessions,				NA 250
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				
6)	ESV Remote-4	1.0 meter (100 Units) U.S. and Possessions,				NA 250
		Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
7)	HUB (2.4 meter)	3044 N. Commerce Parkway Miramar, Broward, FL 33025	25°58'54.6"N	80°16'59.5"W	2.06	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
8)	VSAT Remote	2.4 meter (20 Units) U.S. and Possessions,			0	NA
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning October 6, 2021 (3 AM Eastern Standard Time) and ending October 6, 2036 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V, L, R	350KG7W	Tx	41.46	22.10	ESV-106K		QPSK; IBS; IP VOICE AND DATA
2)	11700.0000-12200.0000	H, V, L, R	350KG7W	Rx			ESV-106K		QPSK; IBS; IP VOICE AND DATA
3)	14000.0000-14500.0000	H, V, L, R	350KG7W	Tx	41.46	22.10	ESV-10K		QPSK; IBS; IP VOICE AND DATA
4)	11700.0000-12200.0000	H, V, L, R	350KG7W	Rx			ESV-10K		QPSK; IBS; IP VOICE AND DATA
5)	14000.0000-14500.0000	H, V, L, R	350KG7W	Tx	41.46	22.10	ESV-12K		QPSK; IBS; IP VOICE AND DATA
6)	11700.0000-12200.0000	H, V, L, R	350KG7W	Rx			ESV-12K		QPSK; IBS; IP VOICE AND DATA



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.
 The General Provision 1900 applies to all transmitting frequency bands.
 For the text of these provisions, refer to Section H.

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
7)	14000.0000-14500.0000	H, V, L, R	350KG7W	Tx	41.46	22.10	ESV-24K		QPSK; IBS; IP VOICE AND DATA
8)	11700.0000-12200.0000	H, V, L, R	350KG7W	Rx			ESV-24K		QPSK; IBS; IP VOICE AND DATA
9)	14000.0000-14500.0000	H, V, L, R	2M50G7W	Tx	59.58	31.76	MTN-24K-H		QPSK; IBS; IP VOICE AND DATA
10)	11700.0000-12200.0000	H, V, L, R	2M50G7W	Rx			MTN-24K-H		QPSK; IBS; IP VOICE AND DATA
11)	14000.0000-14500.0000	H, V, L, R	350KG7W	Tx	44.55	25.19	MTN-24KLR		QPSK; IBS; IP VOICE AND DATA
12)	11700.0000-12200.0000	H, V, L, R	350KG7W	Rx			MTN-24KLR		QPSK; IBS; IP VOICE AND DATA
13)	14000.0000-14500.0000	H, V, L, R	910KG7W	Tx	47.83	24.27	MTN110V		QPSK
14)	11700.0000-12200.0000	H, V, L, R	910KG7W	Rx			MTN110V		NULL
15)	14000.0000-14500.0000	H, V, L, R	910KG7W	Tx	48.93	25.37	MTN1TESV		QPSK
16)	11700.0000-12200.0000	H, V, L, R	910KG7W	Rx			MTN1TESV		NULL

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	14000.0000-14500.0000								MTN-24K-H
2)	11700.0000-12200.0000								MTN-24K-H
3)	14000.0000-14500.0000								MTN110V
4)	11700.0000-12200.0000								MTN110V
5)	14000.0000-14500.0000								MTN1TESV
6)	11700.0000-12200.0000								MTN1TESV
7)	11700.0000-12200.0000								MTN-24KLR
8)	14000.0000-14500.0000								MTN-24KLR
9)	14000.0000-14500.0000								ESV-106K
10)	11700.0000-12200.0000								ESV-106K



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
11)	14000.0000-14500.0000								ESV-24K
12)	11700.0000-12200.0000								ESV-24K
13)	14000.0000-14500.0000								ESV-10K
14)	11700.0000-12200.0000								ESV-10K
15)	11700.0000-12200.0000								ESV-12K
16)	14000.0000-14500.0000								ESV-12K

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) HUB (2.4 meter) to Permitted Space Station List
- 2) ESV REMOTE 5 to Permitted Space Station List
- 3) ESV REMOTE 6 to Permitted Space Station List
- 4) VSAT Remote to Permitted Space Station List
- 5) ESV Remote-4 to Permitted Space Station List
- 6) ESV Remote 3 to Permitted Space Station List
- 7) ESV Remote 2 to Permitted Space Station List
- 8) ESV Remote 1 to Permitted Space Station List

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
ESV Remote-4	ESV-106K	100	1	SeaTel, Inc.	4006			
		Max Gains(s):	39.0 dBi @	12.5000 GHz	40.0 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			1.40			
		Maximum aggregate output EIRP for all carriers (dBW) =			41.46			
ESV Remote 2	ESV-10K	100	1	SeaTel, Inc.	4003			
		Max Gains(s):	39.0 dBi @	12.5000 GHz	40.0 dBi @	14.2500 GHz		
		Maximum total input power at antenna flange (Watts) =			1.40			
		Maximum aggregate output EIRP for all carriers (dBW) =			41.46			



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Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
ESV Remote 1	ESV-12K	40	1.2	SeaTel, Inc.	4996T			
	Max Gains(s):	41.6 dBi @	11.8500 GHz	42.5 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				.78			
	Maximum aggregate output EIRP for all carriers (dBW) =				41.46			
ESV Remote 3	ESV-24K	40	2.4	SeaTel, Inc.	9797T			
	Max Gains(s):	47.6 dBi @	12.2000 GHz	48.5 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				.20			
	Maximum aggregate output EIRP for all carriers (dBW) =				41.46			
HUB (2.4 meter)	MTN-24K-H	1	2.4	Andrew Corp	62-24356-01C	2.06	3.6 AGL/ 5.66 AMSL	
	Max Gains(s):	47.6 dBi @	11.9500 GHz	49.3 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				10.67			
	Maximum aggregate output EIRP for all carriers (dBW) =				59.58			
VSAT Remote	MTN-24KLR	20	2.4	Andrew Corp	62-24356-01C	0	0 AGL/ 0 AMSL	
	Max Gains(s):	49.3 dBi @	14.2500 GHz	47.6 dBi @	11.9500 GHz			
	Maximum total input power at antenna flange (Watts) =				.34			
	Maximum aggregate output EIRP for all carriers (dBW) =				44.55			
ESV REMOTE 5	MTN110V	100	1.05	INTELLIAN	V110			
	Max Gains(s):	40.2 dBi @	11.9500 GHz	41.3 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				4.50			
	Maximum aggregate output EIRP for all carriers (dBW) =				47.83			
ESV REMOTE 6	MTN1TESV	100	1.03	THRANE & THRANE	SAILOR 900			
	Max Gains(s):	40.1 dBi @	11.9500 GHz	41.4 dBi @	14.2500 GHz			
	Maximum total input power at antenna flange (Watts) =				5.66			
	Maximum aggregate output EIRP for all carriers (dBW) =				48.93			



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F) Remote Control Point:

ESV REMOTE 5	3044 N. COMMERCE PARKWAY MIRAMAR, BROWARD, FL 33025 954-538-4074	Call Sign: E010332
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ESV REMOTE 6	3044 N. COMMERCE PARKWAY MIRAMAR, BROWARD, FL 33025 954-538-4074	Call Sign: E010332
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ESV Remote 1	3044 N. Commerce Parkway Miramar, Broward, FL 33025 954-538-4074	Call Sign: E010332
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ESV Remote 2	3044 N. Commerce Parkway Miramar, Broward, FL 33025 954-538-4074	Call Sign: E010332
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ESV Remote 3	3044 N. Commerce Parkway Miramar, Broward, FL 33025 954-538-4074	Call Sign: E010332
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ESV Remote-4	3044 N. Commerce Parkway Miramar, Broward, FL 33025 954-538-4074	Call Sign: E010332
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VSAT Remote	3044 North Commerce Parkway Miramar, Broward, FL 33025 (954) 538-4074	Call Sign: E010332
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G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

- 4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.
- 8 --- Licensee must notify the Commission when all earth stations under this authorization are no longer operational or when they have not been used to provide service during any continuous six-month period.
- 102 --- 24 Hour Contact: Applicant has provided the name and telephone number of a contact person in the United States, available seven days a week, twenty-four hours a day, for cessation of emissions from suspected source of interference in the event of need to resolve interference issues, on direction from authority with jurisdiction for licensing in the area of operation.
- 103 --- Muting: Emissions must cease if correction of more than 0.5 degrees is required to maintain lock on satellite, or if receive signal is lost.
- 105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.
- 106 --- Pointing Error: A maximum pointing error within 0.2 degrees must be maintained under all operating conditions.
- 249 --- This license is granted authority to provide services for both Earth Stations on-board Vessels (ESV) and VSAT Network.
- 250 --- Area of Operation: Atlantic Ocean, Pacific Ocean, Gulf of Mexico, Caribbean Sea and Navigable Inland Waters, Subject to the Requirements contained in Section 25.222(d) and (e).
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)
- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.



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H) Special and General Provisions

A) This RADIO STATION AUTHORIZATION is granted subject to the following special provisions and general conditions:

90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.

900407 --- The Permitted Space Station List (Permitted List) is a list of all geostationary space stations providing fixed-satellite service pursuant to a Commission license or grant of U.S. market access. The Permitted List currently includes the following frequency bands per §25.103 and §25.115(k)(1):

- 3600-4200 MHz (space-to-Earth)
- 5850-6725 MHz (Earth-to-space)
- 10.95-11.2 GHz (space-to-Earth)
- 11.45-12.2 GHz (space-to-Earth)
- 13.75-14.5 GHz (Earth-to-space)
- 18.3-18.8 GHz (space-to-Earth)
- 19.7-20.2 GHz (space-to-Earth)
- 24.75-25.25 GHz (Earth-to-space)
- 28.35-28.6 GHz (Earth-to-space)
- 29.25-30.0 GHz (Earth-to-space).

Earth stations with "Permitted List" designated as a point of communication may access any space station on the Permitted List, provided the operations comply with the applicable "routine" uplink and downlink limits, are within the specific frequency bands authorized in the earth station license, have completed coordination with terrestrial stations pursuant to §25.203, and otherwise comply with all terms and conditions of both the earth station license and the space station grant.



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.