



# PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION  
45 L STREET NE  
WASHINGTON D.C. 20554

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Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)  
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Report No. SES-02450

Wednesday March 16, 2022

## Satellite Communications Services Information re: Actions Taken

The Commission, by its International Bureau, took the following actions pursuant to delegated authority. The effective dates of the actions are the dates specified.

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**SES-ASG-20220307-00250** E E190826 WFXT Boston, LLC  
Application for Consent to Assignment  
Consummated Date Effective: 03/07/2022

**Current Licensee:** WFXT Boston, LLC  
**FROM:** WFXT Boston, LLC  
**TO:** Teton Opco Corp.

No. of Station(s) listed: 1

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**SES-LIC-20211109-01801** E E210426 L3HARRIS TECHNOLOGIES, INC.  
Application for Authority  
Withdrawn Date Effective: 03/11/2022

**Class of Station:** Temporary Fixed Earth Station

**Nature of Service:** Fixed Satellite Service

**SITE ID:** GAO\_RTR  
**LOCATION:** 18594 LA-3235, Lafourche, Galliano, LA  
29 ° 24 ' 50.90 " N LAT. 90 ° 17 ' 43.50 " W LONG.

<b>ANTENNA ID:</b> 1	2.4 meters	Prodelin	2244
4102.0000 - 4138.0000 MHz	36M0D7W	0.00 dBW	Digital data and video
6327.0000 - 6363.0000 MHz	36M0D7W	57.70 dBW	Digital data and video

**Points of Communication:**

GAO\_RTR - SES-2 (S2826) - (87 W.L.)

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**SES-LIC-20211220-01935** E E210446 Herring Networks Inc.

Application for Authority

Returned No Action

Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

This application was Return Without Action due the application filing freeze in the 3700-4200 MHz band.

SITE ID: 1

LOCATION: 4757 Morena Blvd., San Diego, San Diego, CA

32 ° 49 ' 28.00 " N LAT.

117 ° 13 ' 45.00 " W LONG.

ANTENNA ID:	1	4.8 meters	Vertex	KPC
5925.0000 - 6425.0000 MHz	36M0G7W	73.50 dBW	Digital Traffic with Various: FEC, Data Rates, Modulations and Types of Information	
5925.0000 - 6425.0000 MHz	51K2G7W	56.40 dBW	Digital Traffic with Various: FEC, Data Rates, Modulations and Types of Information	
3700.0000 - 4200.0000 MHz	36M0G7W		Digital Traffic with Various: FEC, Data Rates, Modulations and Types of Information	
3700.0000 - 4200.0000 MHz	51K2G7W		Digital Traffic with Various: FEC, Data Rates, Modulations and Types of Information	

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-LIC-20220125-00079** E E220008 TeleSouth Communications, Inc.

Application for Authority

Grant of Authority

03/14/2022 - 03/14/2037

Date Effective: 03/14/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

This proposed earth station would transmit digital audio programming to a network of radio station in Mississippi, US.

SITE ID: 1

LOCATION: 6311 Ridgewood Road, HINDS, Jackson, MS

32 ° 23 ' 51.80 " N LAT.

90 ° 8 ' 37.60 " W LONG.

ANTENNA ID:	1	5 meters	Comtech	OFF-SAT
5925.0000 - 6425.0000 MHz	36M0G7W	53.00 dBW	Digital Audio Services	

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**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-LIC-20220225-00215** E E220029 Caleb G Squires

Application for Authority

Returned No Action

Date Effective: 03/10/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

Application is returned without action pursuant to 47 CFR § 25.115(b)(2).

SITE ID: SITE 1

LOCATION: 2160 Judge Fran Jamieson Way 312, Brevard, Viera, FL

28 ° 14 ' 51.97 " N LAT.

80 ° 44 ' 19.32 " W LONG.

ANTENNA ID: ANT1 0.9 meters SatPro LLC. Multicom

11700.0000 - 12750.0000 MHz 30M0G7W 0.00 dBW E50 Modulation and Services Digital Video

**Points of Communication:**

SITE 1 - GALAXY 19 (S2647) - (97 W.L.)

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**SES-MOD-20190516-00616** E E130126 Production & Satellite Services, Inc.

Application for Modification

09/18/2013 - 09/18/2028

Grant of Authority

Date Effective: 03/11/2022

**Class of Station:** Temporary Fixed Earth Station

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 4415 WAGON TRAIL AVE (CK32 AND KU32), LAS VEGAS, NV 89118, Temporary-Fixed Earth

ANTENNA ID: 1 C 4.5 meters ANDREW CORPORATION ESA45A

5925.0000 - 6425.0000 MHz 4M00G7F 62.84 dBW Digital Video w/ Associated Audio

5925.0000 - 6425.0000 MHz 36M0G7F 73.70 dBW Digital Video w/ Associated Audio

5925.0000 - 6425.0000 MHz 36M0F3F 73.70 dBW Analog Video w/ Associated Audio

3700.0000 - 4200.0000 MHz 4M00G7F Digital Video w/ Associated Audio

3700.0000 - 4200.0000 MHz 36M0G7F Digital Video w/ Associated Audio

3700.0000 - 4200.0000 MHz 36M0F3F Analog Video w/ Associated Audio

6725.0000 - 7025.0000 MHz 4M00G7F 62.84 dBW Digital Video w/ Associated Audio

6725.0000 - 7025.0000 MHz	36M0G7F	73.70 dBW	Digital Video w/ Associated Audio
4500.0000 - 4800.0000 MHz	4M00G7F		Digital Video w/ Associated Audio
4500.0000 - 4800.0000 MHz	36M0G7F		Digital Video w/ Associated Audio
ANTENNA ID: 1 KU	4.5 meters	ANDREW CORPORATION	ESA45A
14000.0000 - 14500.0000 MHz	4M00G7F	61.22 dBW	Digital Video w/ Associated Audio
14000.0000 - 14500.0000 MHz	36M0G7F	72.09 dBW	Digital Video w/ Associated Audio
14000.0000 - 14500.0000 MHz	36M0F3F	72.09 dBW	Analog Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	4M00G7F		Digital Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	36M0G7F		Digital Video w/ Associated Audio
11700.0000 - 12200.0000 MHz	36M0F3F		Analog Video w/ Associated Audio

**Points of Communication:**

1 - PERMITTED LIST - ()

**SES-MOD-20211220-01927** E E010028 AMC Networks Broadcasting & Technology  
 Application for Modification 05/07/2011 - 05/07/2026  
 Grant of Authority Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

**SITE ID:** 1  
**LOCATION:** 620 HICKSVILLE ROAD, NASSAU, BETHPAGE, NY  
 40 ° 44 ' 39.60 " N LAT. 73 ° 29 ' 38.10 " W LONG.

ANTENNA ID: 1	9 meters	VERTEX	9 KPC
6088.0000 - 6425.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO AUDIO DATA CARRIER
5925.0000 - 6038.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO AUDIO DATA CARRIER
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO AUDIO DATA CARRIER
ANTENNA ID: 2	9 meters	VERTEX	9 KPC
6088.0000 - 6425.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
6088.0000 - 6425.0000 MHz	36M0G7F	77.70 dBW	DIGITAL COMPRESSED VIDEO CARRIER

	5925.0000 - 6038.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G7F	77.70 dBW	DIGITAL COMPRESSED VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0F3F		ANALOG VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL COMPRESSED VIDEO CARRIER
ANTENNA ID: 3	9 meters	GENERAL DYNAMICS		KPC-9.0
	6088.0000 - 6425.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	6088.0000 - 6425.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO CARRIER
ANTENNA ID: 4	9 meters	GENERAL DYNAMICS		KPC-9.0
	6088.0000 - 6425.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
	6088.0000 - 6425.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO CARRIER
ANTENNA ID: 5	9 meters	VERTEX RSI		KPC-9.0
	6088.0000 - 6425.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	5925.0000 - 6038.0000 MHz	36M0G7F	77.70 dBW	DIGITAL VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO CARRIER
	3700.0000 - 4200.0000 MHz	36M0F7F		DIGITAL VIDEO CARRIER
ANTENNA ID: 6	7.2 meters	VERTEX RSI		KPC-7.2
	5925.0000 - 6425.0000 MHz	36M0G3F	51.70 dBW	ANALOG VIDEO CARRIER

5925.0000 - 6425.0000 MHz	36M0F3F	51.70 dBW	ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0F3F		ANALOG VIDEO CARRIER
ANTENNA ID: 7	6.1 meters	VERTEX RSI	KXC-6.1
3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0F3F		ANALOG VIDEO CARRIER
ANTENNA ID: 8	9.3 meters	GENERAL DYNAMICS	KPC-9.3
6088.0000 - 6425.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
5925.0000 - 6038.0000 MHz	36M0G3F	77.70 dBW	ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER
ANTENNA ID: 9	4.5 meters	ASC	ESA-4.6
3700.0000 - 4200.0000 MHz	36M0G3F		ANALOG VIDEO CARRIER

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20211220-01928** E E000228 AMC Networks Broadcasting & Technology  
 Application for Modification 06/30/2010 - 06/30/2025  
 Grant of Authority Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: 620 Hicksville Road, NASSAU, BETHPAGE, NY  
 40 ° 44 ' 37.80 " N LAT. 73 ° 29 ' 40.00 " W LONG.

ANTENNA ID: 1	9 meters	VERTEX	9 KPC
5925.0000 - 6425.0000 MHz	36M0F3F	77.80 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO
5925.0000 - 6425.0000 MHz	36M0G7F	77.80 dBW	DIGITAL COMPRESSED VIDEO
3700.0000 - 4200.0000 MHz	36M0F3F		ANALOG VIDEO WITH ASSOCIATED AUDIO
3700.0000 - 4200.0000 MHz	36M0G7F		DIGITAL COMPRESSED VIDEO

ANTENNA ID:	2	7.2 meters	VERTEX	7.2 KPC	
	5925.0000 - 6425.0000 MHz		36M0F3F	74.71 dBW	ANALOG VIDEO WITH ASSOCIATED AUDIO
	5925.0000 - 6425.0000 MHz		36M0G7F	74.71 dBW	DIGITAL COMPRESSED VIDEO
	3700.0000 - 4200.0000 MHz		36M0F3F		ANALOG VIDEO WITH ASSOCIATED AUDIO
	3700.0000 - 4200.0000 MHz		36M0G7F		DIGITAL COMPRESSED VIDEO

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20211220-01930** E E040445 AMC Networks Broadcasting & Technology  
 Application for Modification 01/18/2020 - 01/18/2035  
 Grant of Authority Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
 LOCATION: 620 HICKSVILLE ROAD, NASSAU, BETHPAGE, NY  
 40 ° 44 ' 39.10 " N LAT. 73 ° 29 ' 37.90 " W LONG.

ANTENNA ID:	1VTEXC	9.3 meters	VERTEX CORPORATION	9.3 METER	
	6088.0000 - 6425.0000 MHz		36M0F8F	78.00 dBW	ANALOG VIDEO CARRIER
	6088.0000 - 6425.0000 MHz		36M0G7F	80.80 dBW	DIGITAL VIDEO CARRIER
	5925.0000 - 6038.0000 MHz		36M0F8F	78.00 dBW	ANALOG VIDEO CARRIER
	5925.0000 - 6038.0000 MHz		36M0G7F	80.80 dBW	DIGITAL VIDEO CARRIER
	3700.0000 - 4200.0000 MHz		36M0F8F		ANALOG VIDEO CARRIER
	3700.0000 - 4200.0000 MHz		36M0G7F		DIGITAL VIDEO CARRIER

ANTENNA ID:	2VCKPC	9.3 meters	VERTEX CORPORATION	9.3 KPC	
	14000.0000 - 14500.0000 MHz		36M0F3F	85.07 dBW	ANALOG VIDEO CARRIER
	14000.0000 - 14500.0000 MHz		36M0G7F	75.00 dBW	DIGITAL COMPRESSED VIDEO CARRIER
	14000.0000 - 14500.0000 MHz		36M0F3F	85.10 dBW	ANALOG VIDEO
	14000.0000 - 14500.0000 MHz		36M0F3F	83.60 dBW	ANALOG VIDEO

11700.0000 - 12200.0000 MHz	36M0F3F			ANALOG VIDEO CARRIER
11700.0000 - 12200.0000 MHz	36M0G7F			DIGITAL COMPRESSED VIDEO CARRIER
11450.0000 - 12200.0000 MHz	36M0F3F			ANALOG VIDEO
11450.0000 - 12200.0000 MHz	36M0G7F			DIGITAL COMPRESSED VIDEO CARRIER
10950.0000 - 11200.0000 MHz	36M0F3F			ANALOG VIDEO
10950.0000 - 11200.0000 MHz	36M0G7F			DIGITAL VIDEO
ANTENNA ID: 3-1GD	9.3 meters	GENERAL DYMANICS		KPC-9.3
6088.0000 - 6245.0000 MHz	36M0G3F	80.80 dBW		DIGITAL VIDEO CARRIER
6088.0000 - 6245.0000 MHz	36M0F7F	78.00 dBW		ANALOG VIDEO CARRIER
5925.0000 - 6038.0000 MHz	36M0G7F	80.80 dBW		DIGITAL VIDEO CARRIER
5925.0000 - 6038.0000 MHz	36M0F7F	78.00 dBW		ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G7F			DIGITAL VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0F7F			ANALOG VIDEO CARRIER
ANTENNA ID: 4-2GD	9.3 meters	GENERAL DYMANICS		KPC-9.3
14000.0000 - 14500.0000 MHz	36M0G3F	51.70 dBW		DIGITAL VIDEO CARRIER
14000.0000 - 14500.0000 MHz	36M0F3F	51.70 dBW		ANALOG VIDEO CARRIER
11450.0000 - 12200.0000 MHz	36M0F3F			ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G3F			DIGITAL VIDEO CARRIER
ANTENNA ID: 5-3ASC	4.9 meters	ASC		ASC-4.9
3720.0000 - 4200.0000 MHz	36M0F3F			ANALOG VIDEO CARRIER
3700.0000 - 4200.0000 MHz	36M0G3F			DIGITAL VIDEO CARRIER

**Points of Communication:**

1 - PERMITTED LIST - ()

SES-MOD-20211222-01926 E E180334 Citadel Communications, LLC  
 Application for Modification  
 Grant of Authority

05/15/2018 - 05/15/2033  
 Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations



**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 2040 SIXTH STREET, SARASOTA, SARASOTA, FL  
27 ° 20 ' 26.17 " N LAT. 82 ° 31 ' 47.62 " W LONG.

ANTENNA ID: 1 3.3 meters DH GIB33M-DP  
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW DIGITAL VIDEO AUDIO AND DATA

SITE ID: 2  
LOCATION: 5205 Fruitville Road, SARASOTA, SARASOTA, FL  
27 ° 20 ' 20.94 " N LAT. 82 ° 27 ' 53.58 " W LONG.

ANTENNA ID: 2 3.5 meters DH GIB35M-DP  
3700.0000 - 4200.0000 MHz 36M0G7W 0.00 dBW DIGITAL VIDEO AUDIO AND DATA

**Points of Communication:**

1 - PERMITTED LIST - ()

2 - PERMITTED LIST - ()

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**SES-MOD-20211222-01932** E E180144 Scripps Broadcasting Holdings LLC  
Application for Modification 05/01/2018 - 05/01/2033  
Grant of Authority Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 720 Boush Street, City of Norfolk, Norfolk, VA  
36 ° 51 ' 19.00 " N LAT. 76 ° 17 ' 25.60 " W LONG.

ANTENNA ID: 1 3.7 meters DH Satellite 3.7M.  
3700.0000 - 4200.0000 MHz 36M0G7W digital video carrier

ANTENNA ID: 3.2M. 3.2 meters Prodelin 3.2 Meter  
3700.0000 - 4200.0000 MHz 36M0G7W digital video carrier

ANTENNA ID: 4.5M. 4.5 meters DH 4.5 Meter  
3700.0000 - 4200.0000 MHz 36M0G7W digital video carrier

ANTENNA ID: 4.0M. 4 meters Prodelin 4.0 Meter  
3700.0000 - 4200.0000 MHz 36M0G7W digital video carrier

ANTENNA ID: 2.8M. 2.8 meters Patriot 2.8 Meter

3700.0000 - 4200.0000 MHz

36M0G7W

digital video carrier

**Points of Communication:**

1 - PERMITTED LIST - ()

**SES-MOD-20211222-01933** E E181833 Cox Television Jacksonville, LLC

Application for Modification

08/14/2018 - 08/14/2033

Grant of Authority

Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 11700 Central Parkway # 2, Duval, Jacksonville, FL

30 ° 16 ' 56.80 " N LAT.

81 ° 30 ' 50.40 " W LONG.

ANTENNA ID: 1	3.1 meters	Patriot	PRT-310
3700.0000 - 4200.0000 MHz	36M0G7F	0.00 dBW	Digital video
ANTENNA ID: 2	4.5 meters	Patriot	PRT-450
3700.0000 - 4200.0000 MHz	36M0G7F	0.00 dBW	Digital video
ANTENNA ID: 3	4.5 meters	EASI	4.5 Prime Focus
3700.0000 - 4200.0000 MHz	36M0G7F	0.00 dBW	Digital video
ANTENNA ID: 4	4.5 meters	Patriot	PRT-450
3700.0000 - 4200.0000 MHz	36M0G7F	0.00 dBW	Digital video

**Points of Communication:**

1 - PERMITTED LIST - ()

**SES-MOD-20211223-01931** E E190835 WFTV, LLC

Application for Modification

09/21/2018 - 09/21/2033

Grant of Authority

Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 21680 Fort Christmas Road, Orange, Christmas, FL

28 ° 34 ' 7.00 " N LAT.

81 ° 3 ' 16.00 " W LONG.

ANTENNA ID: 1	3.8 meters	Patriot	PRT-380AZ
3700.0000 - 4200.0000 MHz	36M0G7F		Digital video audio data multiplex

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**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20211230-01979** E E181523 Intelsat License LLC

Application for Modification

07/13/2018 - 07/13/2033

Grant of Authority

Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 22401 Juniper Flats Rd, Riverside, Nuevo, CA

33 ° 47 ' 45.00 " N LAT.

117 ° 5 ' 15.00 " W LONG.

ANTENNA ID:	RVS-C20	3.7 meters	3.7 GD SATCOM	3.7KPC
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data
ANTENNA ID:	RVS-M16	4 meters	4.0m Patriot	PRT-400
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data
ANTENNA ID:	RVS-M17	4 meters	4.0m Patriot	PRT-400
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data
ANTENNA ID:	RVS-M18	4 meters	4.0m Patriot	PRT-400
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data
ANTENNA ID:	RVS-C31	6.3 meters	6.3m Patriot	PRT-630DAKP
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data
ANTENNA ID:	RVS-M11	4.5 meters	4.5m Patriot	PRT-450
	3700.0000 - 4200.0000 MHz		36M0G7W	Digital Video and Data
	3700.0000 - 4200.0000 MHz		64K0G7W	Digital Video and Data



ANTENNA ID:	NAP-C21	15.2 meters	VERTEX	15.2 KPC	
	6176.3000 - 6176.3000 MHz		850KFXD	78.97 dBW	TELEMETRY & RANGING
	6173.7000 - 6173.7000 MHz		850KFXD	78.97 dBW	TELEMETRY & RANGING
	5925.0000 - 6425.0000 MHz		36M0F8F	84.00 dBW	ANALOG TV
	5925.0000 - 6425.0000 MHz		30M0F8F	83.20 dBW	ANALOG TV
	5925.0000 - 6425.0000 MHz		27M0F8F	82.80 dBW	ANALOG TV
	5925.0000 - 6425.0000 MHz		54M0G7F	84.00 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		24M0G7F	80.50 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		9M80G7F	76.60 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		8M00G7F	75.70 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		6M50G7F	74.80 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		2M70G7F	71.00 dBW	DIGITAL TV
	5925.0000 - 6425.0000 MHz		1M36G7W	68.00 dBW	DATA
	5925.0000 - 6425.0000 MHz		1M00G7W	64.00 dBW	DIGITAL DATA, VIDEO OR VOICE
	5925.0000 - 6425.0000 MHz		72M0G7W	73.00 dBW	DIGITAL DATA, VIDEO OR VOICE
	5925.0000 - 6425.0000 MHz		950KF3D	77.00 dBW	TT&C
	5850.0000 - 5925.0000 MHz		72M0G7D	73.00 dBW	DIGITAL DATA, VIDEO OR VOICE
	5850.0000 - 5925.0000 MHz		1M00G7D	63.90 dBW	DIGITAL DATA, VIDEO OR VOICE
	3947.0000 - 3953.0000 MHz		850KFXD	0.00 dBW	TELEMETRY & RANGING
	3700.0000 - 4200.0000 MHz		1M36G7W		DATA
	3700.0000 - 4200.0000 MHz		1M00G7W		DIGITAL DATA, VIDEO OR VOICE
	3700.0000 - 4200.0000 MHz		72M0G7W		DIGITAL DATA, VIDEO OR VOICE
	3700.0000 - 4200.0000 MHz		200KFXD		TT&C
	3625.0000 - 3700.0000 MHz		60M0G7D		DIGITAL DATA, VIDEO OR VOICE

**Points of Communication:**

1 - HORIZONS-3 (S2947) - (169 E.L.)



148.0000 - 149.9500 MHz	7K80F1D	10.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	125KF1D	0.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	7K80F1D	0.00 dBW	FSK / data (non-voice)
ANTENNA ID: YAGI	1.7 meters	Swarm	004
148.0000 - 149.9500 MHz	250KF1D	21.00 dBW	FSK / data (non-voice)
148.0000 - 149.9500 MHz	7K80F1D	21.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	125KF1D	0.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	7K80F1D	0.00 dBW	FSK / data (non-voice)
ANTENNA ID: W1/4	0.55 meters	Swarm	005
148.0000 - 149.9500 MHz	250KF1D	12.00 dBW	FSK / data (non-voice)
148.0000 - 149.9500 MHz	7K80F1D	12.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	125KF1D	0.00 dBW	FSK / data (non-voice)
137.0000 - 138.0000 MHz	7K80F1D	0.00 dBW	FSK / data (non-voice)

**Points of Communication:**

American Samoa Gtwy - Swarm (S3041) - (NGSO)

**SES-RWL-20190325-00391** E E040041 Production & Satellite Services, Inc.  
 Renewal 06/22/2019 - 06/22/2034  
 Grant of Authority Date Effective: 03/25/2019

**Class of Station:** Temporary Fixed Earth Station

**Nature of Service:** Domestic Fixed Satellite Service, International Fixed Satellite Service

The receive frequencies are now included in this authorization. See File No. SES-MOD-20190507-00573.

SITE ID: 1  
 LOCATION: 4425 Aldebaran Ave Ste #1, Clark, Las Vegas, NV

ANTENNA ID: C 21 C ban	2.4 meters	AVL Technologies	2400
5925.0000 - 6425.0000 MHz	36M0G7F	65.00 dBW	DIGITAL TV WITH ASSOCIATED AUDIO
5925.0000 - 6425.0000 MHz	4M00G7F	61.50 dBW	DIGITAL TV WITH ASSOCIATED AUDIO
5925.0000 - 6425.0000 MHz	36M0F3F	65.00 dBW	Standard Video W/Associated Audio

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3700.0000 - 4200.0000 MHz	4M00G7F	DIGITAL TV WITH ASSOCIATED AUDIO
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3700.0000 - 4200.0000 MHz	36M0G7F	DIGITAL TV WITH ASSOCIATED AUDIO
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**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-RWL-20220128-00103** E E060445 HNS License Sub, LLC

Renewal

02/27/2022 - 02/27/2037

Grant of Authority

Date Effective: 03/09/2022

**Class of Station:** Other

**Nature of Service:** Fixed Satellite Service

SITE ID: TR3.5M

LOCATION: 50,000 (3.5m) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT.

0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	TR3.5	3.5 meters	ASC SIGNAL CORP.	ES35SRT-1
29500.0000 - 30000.0000 MHz	20M9G7W	75.40 dBW	16.348 MBPS, PSK, DIGITAL CARRIER	
29500.0000 - 30000.0000 MHz	2M61G7W	66.30 dBW	2.048 MBPS, PSK, DIGITAL CARRIER	
29500.0000 - 30000.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	650KG7W	60.30 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	20M9G7W	75.40 dBW	2,048 MBPS, PSK, DIGITAL CARRIER	
19700.0000 - 20200.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER		
19700.0000 - 20200.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER		
18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER		
18300.0000 - 19300.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER		

SITE ID: TFTR1.2M

LOCATION: 1000 (1.2M) CONUS, AK, HI, PR, VI

ANTENNA ID:	TFTR1.2	1.2 meters	AVL TECHNOLOGIES	1210K
29500.0000 - 30000.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS	
29250.0000 - 30000.0000 MHz	2M00G7W	55.90 dBW	QPSK, DATA, INROUTE, 1600 KSPS	



29250.0000 - 30000.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	100KG7W	42.70 dBW	QPSK, DATA, INROUTE, 64 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	55.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
19700.0000 - 20200.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W		QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W		QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	2M61G7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR74CM  
LOCATION: 25,000 (74cm) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: 74CM(TA)	0.74 meters	GD SATCOM	HNS1031929
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

ANTENNA ID: 74CM(TB)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER

28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER

ANTENNA ID: 74CM(TC) 0.74 meters GD SATCOM AN8-074P

29500.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TFTR98CM  
LOCATION: 10,000 (98cm) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TFTR98(2) 0.98 meters SKYWARE GLOBAL AN8-098RAN-098KA

29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TFTR98CM	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: TFTR98(3)	0.98 meters	AVL TECHNOLOGIES	1010K
29500.0000 - 30000.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS
29500.0000 - 30000.0000 MHz	1M48G7W	52.90 dBW	QPSK, DATA, INROUTE, 1100 KSPS
29500.0000 - 30000.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 2048 KSPS
29250.0000 - 29500.0000 MHz	2M61G7W	52.90 dBW	QPSK, DATA, INROUTE, 204K KSPS
29250.0000 - 29500.0000 MHz	500MG7W	41.20 dBW	QPSK, DATA, INROUTE, 64 KSPS

19700.0000 - 20200.0000 MHz	100KG7W	QPSK, DATA, OUTROUTE, 64 KSPS
19700.0000 - 20200.0000 MHz	500MG7W	QPSK, DATA, OUTROUTE, 30 MSPS
18300.0000 - 19300.0000 MHz	100KG7W	QPSK, DATA, OUTROUTE, 64 KSPS
18300.0000 - 19300.0000 MHz	500MG7W	QPSK, DATA, OUTROUTE, 30 MSPS

SITE ID: TR98CM  
LOCATION: 250,000 (98cm) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	TR98CM(1)	0.98 meters	GD SATCOM	AN8-098P
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER	
19700.0000 - 20200.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER		
19700.0000 - 20200.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER		
18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER		
18300.0000 - 19300.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER		

ANTENNA ID:	TR98CM(2)	0.98 meters	SKYWARE GLOBAL	AN8-098R
29500.0000 - 30000.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29500.0000 - 30000.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	650KG7W	49.40 dBW	512 KBPS, PSK, DIGITAL CARRIER	
29250.0000 - 29500.0000 MHz	2M61G7W	53.40 dBW	2.048 MBPS, PSK, DIGITAL CARRIER	
19700.0000 - 20200.0000 MHz	500MG7W	500 MHZ WIDE, PSK, DIGITAL CARRIER		
19700.0000 - 20200.0000 MHz	100KG7W	100 KHZ WIDE, PSK, DIGITAL CARRIER		
18300.0000 - 19300.0000 MHz	100KG7W	100 KHZ WIDE, PSK DIGITAL CARRIER		

18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
SITE ID: TR74CM			
LOCATION: 5,000,000 (74cm) CONUS, AK, HI, PR, VI			
0 ° 0 ' 0.00 " N LAT.		0 ° 0 ' 0.00 " W LONG.	
ANTENNA ID: 74CM(FA)	0.74 meters	GD SATCOM	AN8-074P
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18800.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 18800.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FC)	0.74 meters	SKYWARE GLOBAL	AN8-074R
29250.0000 - 30000.0000 MHz	650KG7W	47.00 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PASK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FB)	0.74 meters	GD SATCOM	HNS1031929
29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
ANTENNA ID: 74CM(FD)	0.74 meters	SKYWARE GLOBAL	AN9-074

29250.0000 - 30000.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	45.80 dBW	512 KSPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W	0.00 dBW	500 MHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ, PSK, PSK, DIGITAL CARRIER

SITE ID: TR1.8M  
LOCATION: 50,000 (1.8m) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR1.8	1.8 meters	GD SATCOM	3180-131
29500.0000 - 30000.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	2M61G7W	60.70 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	54.70 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	20M9G7W	69.80 dBW	16.348 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TR1.2M  
LOCATION: 100,000 (1.2m) CONUS, AK, HI, PR, VI  
0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID: TR1.2	1.2 meters	GD SATCOM	3120-131
29500.0000 - 30000.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
29500.0000 - 30000.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	650KG7W	51.20 dBW	512 KBPS, PSK, DIGITAL CARRIER

29250.0000 - 29500.0000 MHz	2M61G7W	57.20 dBW	2.048 MBPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ WIDE, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		500 MHZ WIDE, PSK, DIGITAL CARRIER

SITE ID: TR69CM  
LOCATION: 1,000,000 (69CM)

ANTENNA ID: 69CM	0.69 meters	SKYWARE GLOBAL	HNS-AN8-069R
29250.0000 - 29500.0000 MHz	100KG7W	38.50 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	2M00G7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
29250.0000 - 29500.0000 MHz	670KG7W	46.80 dBW	M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	500MG7W		M-ARY PHASE SHIFT KEYING DIGITAL CARRIER

SITE ID: TR90CM  
LOCATION: 100,000 (90CM) CONUS, AK, HI, PR, VI

ANTENNA ID: 90CM	0.9 meters	GLOBAL SKYWARE	6116047-01
29250.0000 - 30000.0000 MHz	650KG7W	51.50 dBW	512 KSPS, PSK, DIGITAL CARRIER
28350.0000 - 28600.0000 MHz	650KG7W	51.50 dBW	512 KSPS, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER
19700.0000 - 20200.0000 MHz	500MG7W		500 MHZ, PSK, DIGITAL CARRIER
18300.0000 - 19300.0000 MHz	100KG7W		100 KHZ, PSK, DIGITAL CARRIER

**Points of Communication:**

TFTR1.2M - AMC-15 (S2180) - (105.0 W.L.)

TFTR1.2M - ECHOSTAR-9 (S2143) - (121 W.L.)

TFTR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TFTR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR1.2M - SPACEWAY 3 (S2663) - (94.95 W.L.)

TFTR1.2M - TELSTAR 19V - (63 W.L.)

TFTR74CM - AMC-15 (S2180) - (105.0 W.L.)

TFTR74CM - DIRECTV 11 - (99.2 W.L.)

TFTR74CM - DIRECTV T10 - (102.8)

TFTR74CM - ECHOSTAR-9 (S2143) - (121 W.L.)

TFTR74CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR74CM - SPACEWAY 2 (S2133) - (138.9 W.L.)

TFTR74CM - SPACEWAY 3 (S2663) - (94.95 W.L.)

TFTR74CM - TELSTAR 19V - (63 W.L.)

TFTR98CM - AMC-15 (S2180) - (105.0 W.L.)

TFTR98CM - ECHOSTAR-9 (S2143) - (121 W.L.)

TFTR98CM - EchostarXVII(S2753) - (107.1 W.L.)

TFTR98CM - HE360 Constellation - (NGSO)

TFTR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TFTR98CM - SPACEWAY 2 (S2133) - (138.9 W.L.)

TFTR98CM - SPACEWAY 3 (S2663) - (94.95 W.L.)

TFTR98CM - TELSTAR 19V - (63 W.L.)

TR1.2M - AMC-15 (S2180) - (105.0 W.L.)

TR1.2M - ECHOSTAR-9 (S2143) - (121 W.L.)

TR1.2M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.2M - JUPITER 97 W(S2834) - (97.1 W. L.)



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TR1.2M - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR1.2M - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR1.2M - TELSTAR 19V - (63 W.L.)

TR1.8M - AMC-15 (S2180) - (105.0 W.L.)

TR1.8M - EHOSTAR-9 (S2143) - (121 W.L.)

TR1.8M - EchostarXVII(S2753) - (107.1 W.L.)

TR1.8M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR1.8M - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR1.8M - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR1.8M - TELSTAR 19V - (63 W.L.)

TR3.5M - AMC-15 (S2180) - (105.0 W.L.)

TR3.5M - EHOSTAR-9 (S2143) - (121 W.L.)

TR3.5M - EchostarXVII(S2753) - (107.1 W.L.)

TR3.5M - JUPITER 97 W(S2834) - (97.1 W. L.)

TR3.5M - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR3.5M - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR3.5M - TELSTAR 19V - (63 W.L.)

TR69CM - AMC-15 (S2180) - (105.0 W.L.)

TR69CM - EHOSTAR-9 (S2143) - (121 W.L.)

TR69CM - EchostarXVII(S2753) - (107.1 W.L.)

TR69CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR69CM - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR69CM - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR69CM - TELSTAR 19V - (63 W.L.)

TR74CM - AMC-15 (S2180) - (105.0 W.L.)

TR74CM - DIRECTV 11 - (99.2 W.L.)

TR74CM - DIRECTV T10 - (102.8)

TR74CM - EHOSTAR-9 (S2143) - (121 W.L.)

TR74CM - EchostarXVII(S2753) - (107.1 W.L.)

TR74CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR74CM - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR74CM - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR74CM - TELSTAR 19V - (63 W.L.)

TR90CM - AMC-15 (S2180) - (105.0 W.L.)

TR90CM - EHOSTAR-9 (S2143) - (121 W.L.)

TR90CM - EchostarXVII(S2753) - (107.1 W.L.)

TR90CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR90CM - TELSTAR 19V - (63 W.L.)

TR98CM - AMC-15 (S2180) - (105.0 W.L.)

TR98CM - EHOSTAR-9 (S2143) - (121 W.L.)

TR98CM - EchostarXVII(S2753) - (107.1 W.L.)

TR98CM - JUPITER 97 W(S2834) - (97.1 W. L.)

TR98CM - SPACEWAY 2 (S2133) - (138.9 W.L.)

TR98CM - SPACEWAY 3 (S2663) - (94.95 W.L.)

TR98CM - TELSTAR 19V - (63 W.L.)

**SES-RWL-20220203-00150** E E060383 HNS License Sub, LLC

Renewal

03/06/2022 - 03/06/2037

Grant of Authority

Date Effective: 03/09/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

**SITE ID:** FILLMORE STATION 2

**LOCATION:** 33 EAST TELEGRAPH ROAD, VENTURA, FILLMORE, CA

34 ° 24 ' 16.70 " N LAT.

118 ° 53 ' 39.20 " W LONG.

ANTENNA ID:	2	9.2 meters	GDSATCOM TECHNOLOGIES	9.2 METER KA-BAND
	28351.0000 - 28353.0000 MHz	1M00F2D	69.70 dBW	FM CMD & RANGING
	20199.5000 - 20199.5000 MHz	NON		BEACON
	19700.5000 - 19702.5000 MHz	200KG7W		TELEMETRY AND RANGING
	19700.5000 - 19702.5000 MHz	300KG7W		TELEMETRY AND RANGING
	19700.5000 - 19702.5000 MHz	70K0G7W		TELEMETRY AND RANGING

SITE ID: Fillmore Station  
 LOCATION: 33 East Telegraph Road, Ventura, Fillmore, CA  
 34 ° 24 ' 16.30 " N LAT. 118 ° 53 ' 38.30 " W LONG.

ANTENNA ID:	1	9 meters	Vertex/General Dynamics	9M THX/Ka
	29500.0000 - 29535.0000 MHz	N0N	56.30 dBW	Beacon
	29500.0000 - 29515.0000 MHz	600KF9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz	944KF9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz	1M30F9D	56.30 dBW	Command and Ranging Carriers
	19700.0000 - 19706.0000 MHz	106KG7D	0.00 dBW	Telemetry and Ranging

**Points of Communication:**

- Fillmore Station - GALAXY 28 (S2160) - (89.0 W.L.)
- Fillmore Station - SPACEWAY 3 (S2663) - (94.95 W.L.)
- FILLMORE STATION 2 - AMC-15 (S2180) - (105.0 W.L.)
- FILLMORE STATION 2 - EchostarXVII(S2753) - (107.1 W.L.)
- FILLMORE STATION 2 - GALAXY 28 (S2160) - (89.0 W.L.)

**SES-RWL-20220203-00151** E E060382 HNS License Sub, LLC  
 Renewal 03/06/2022 - 03/06/2037  
 Grant of Authority Date Effective: 03/09/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: Castle Rock Station  
 LOCATION: 5281 EAST GARTON ROAD (9.0M.) CKa11, DOUGLAS, CASTLE ROCK, CO  
 39 ° 16 ' 34.34 " N LAT. 104 ° 48 ' 39.00 " W LONG.

ANTENNA ID:	CKa11	9 meters	VERTEX/GENERAL DYNAMICS	9M THX/Ka
	29500.0000 - 29535.0000 MHz	N0N	56.30 dBW	Beacon
	29500.0000 - 29515.0000 MHz	600KF9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz	1M30F9D	56.30 dBW	Command and Ranging Carriers
	29500.0000 - 29515.0000 MHz	944KF9D	56.30 dBW	Command and Ranging Carriers
	19700.0000 - 19706.0000 MHz	106KG7D		Telemetry and Ranging

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SITE ID: NLV-1  
LOCATION: ONE AEROJET WAY (1.8M.), CLARK, NORTH LAS VEGAS, NV  
36 ° 14 ' 11.70 " N LAT. 115 ° 7 ' 4.10 " W LONG.

ANTENNA ID: NLV-1 1.8 meters PRODELIN 1.8 METER KA-BAND  
29998.0000 - 29998.0000 MHz NON 63.00 dBW UNMODULATED CARRIER

SITE ID: NLV-2  
LOCATION: 1500 FOREMASTER LANE (1.8M.) KSNV-SOUTHERN, CLARK, LAS VEGAS, NV  
36 ° 11 ' 8.00 " N LAT. 115 ° 7 ' 38.00 " W LONG.

ANTENNA ID: NLV-2 1.8 meters PRODELIN 1.8 METER KA-BAND  
29998.0000 - 29998.0000 MHz NON 63.00 dBW UNMODULATED CARRIER

SITE ID: Castle Rock 2  
LOCATION: 5281 EAST GARTON ROAD (9.2M.), DOUGLAS, CASTLE ROCK, CO  
39 ° 16 ' 34.30 " N LAT. 104 ° 48 ' 29.60 " W LONG.

ANTENNA ID: CR 2 9.2 meters GDSATCOM TECHNOLOGIES 9.2 METER KA-BAND  
28351.0000 - 28353.0000 MHz 1M00F2D 69.70 dBW FM CMD & RANGING  
20199.5000 - 20199.5000 MHz NON BEACON  
19700.5000 - 19702.5000 MHz 70K0G7W TELEMETRY AND RANGING  
19700.5000 - 19702.5000 MHz 300KG7W TELEMETRY AND RANGING  
19700.5000 - 19702.5000 MHz 200KG7W TELEMETRY AND RANGING

SITE ID: BV-1  
LOCATION: 394 N. EXPRESSWAY (1.8M.) KVEO-TV, CAMERON, BROWNSVILLE, TX  
25 ° 55 ' 38.00 " N LAT. 97 ° 29 ' 25.00 " W LONG.

ANTENNA ID: BEACON 1 1.8 meters PRODELIN 1.8 METER KA-BAND  
29998.0000 - 29998.0000 MHz NON 63.00 dBW UNMODULATED CARRIER

**Points of Communication:**

- BV-1 - AMC-15 (S2180) - (105.0 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - EchostarXVII(S2753) - (107.1 W.L.)
- BV-1 - GALAXY 28 (S2160) - (89.0 W.L.)
- Castle Rock 2 - AMC-15 (S2180) - (105.0 W.L.)

Castle Rock 2 - EchoStarXVII(S2753) - (107.1 W.L.)  
 Castle Rock 2 - EchoStarXVII(S2753) - (107.1 W.L.)  
 Castle Rock 2 - GALAXY 28 (S2160) - (89.0 W.L.)  
 Castle Rock Station - GALAXY 28 (S2160) - (89.0 W.L.)  
 Castle Rock Station - SPACEWAY 3 (S2663) - (94.95 W.L.)  
 Castle Rock Station - SPACEWAY 3 (S2663) - (94.95 W.L.)  
 NLV-1 - AMC-15 (S2180) - (105.0 W.L.)  
 NLV-1 - EchoStarXVII(S2753) - (107.1 W.L.)  
 NLV-1 - EchoStarXVII(S2753) - (107.1 W.L.)  
 NLV-1 - GALAXY 28 (S2160) - (89.0 W.L.)  
 NLV-2 - AMC-15 (S2180) - (105.0 W.L.)  
 NLV-2 - EchoStarXVII(S2753) - (107.1 W.L.)  
 NLV-2 - EchoStarXVII(S2753) - (107.1 W.L.)  
 NLV-2 - GALAXY 28 (S2160) - (89.0 W.L.)

**SES-RWL-20220307-00238** E E7121 NBC Telemundo License LLC

Renewal

03/07/2022 - 03/07/2037

Grant of Authority

Date Effective: 03/09/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 645 5TH AVENUE (WSAZ), CABELL, HUNTINGTON, WV

38 ° 25 ' 5.00 " N LAT.

82 ° 26 ' 50.00 " W LONG.

ANTENNA ID:	1	6.1 meters	HARRIS	5346
14000.0000 - 14500.0000 MHz	112KG1D	57.10 dBW	PSK PRIVATE DATA	
14000.0000 - 14500.0000 MHz	36M0F8F	78.00 dBW	ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS	
14000.0000 - 14500.0000 MHz	4M00G7F	70.00 dBW	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA	
14000.0000 - 14500.0000 MHz	36M0G7W	78.00 dBW	NULL	
11700.0000 - 12200.0000 MHz	256KG1D	PSK PRIVATE DATA		
11700.0000 - 12200.0000 MHz	36M0F8F	ANALOG VIDEO W/ASSOC AUDIO SUBCARRIERS		

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11700.0000 - 12200.0000 MHz	4M00G7F	PSK DIGITAL VIDEO WITH ASSOC. DIGITAL AUDIO AND DATA
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11700.0000 - 12200.0000 MHz	36M0G7W	NULL
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**Points of Communication:**

1 - PERMITTED LIST - ()

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<b>SES-RWL-20220310-00260</b>	E E970204	Cox Communications Arizona, LLC	
Renewal			03/14/2022 - 03/14/2037
Grant of Authority			Date Effective: 03/15/2022

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: 100 N 79TH STREET, MARICOPA, CHANDLER, AZ  
33 ° 18 ' 14.40 " N LAT. 111 ° 54 ' 50.10 " W LONG.

ANTENNA ID: 1	7 meters	SIMULSAT TECH CORP	7 METER
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3700.0000 - 4200.0000 MHz	36M0G7W	DIGITAL VIDEO CARRIER
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**Points of Communication:**

1 - PERMITTED LIST - ()

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<b>SES-STA-20220201-00122</b>	E E120106	Intelsat License LLC	
Special Temporary Authority			
Grant of Authority			Date Effective: 03/14/2022

**Class of Station:**

On March 14, 2022, Intelsat License LLC was granted special temporary authority for 30 days, beginning on March 14, 2022, to use its Ku-band terminals (AES1 and AES2) to operate with the JCSAT-1C satellite at the 150.0° E.L. orbital location for purposes of serving U.S.licensed earth station aboard aircraft (ESAA) terminals operating outside the U.S. and its territorial waters on center frequencies: 14.0-14.5 MHz (Earth-to-space), and 12.2-12.7 (space-to-Earth).

**Points of Communication:**

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<b>SES-STA-20220209-00169</b>	E E220024	Universal Space Network, Inc.	
Special Temporary Authority			
Grant of Authority			Date Effective: 03/10/2022

**Class of Station:**

On March 10, 2022, Universal Space Network Inc. was granted special temporary authority, beginning March 10, 2022 through April 23, 2022, to operate its 13 meter antenna fixed earth station in Naalehu, HI to communicate with the lunar-orbiting Chandrayaan-2 satellite on center frequency 8484.000 MHz (space-to-Earth).

**Points of Communication:**

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**CORRECTIONS**

**SES-REG-20181015-05678**      E200365      Mission Broadcasting, Inc.

Call Sign E200365 contained antennas that were duplicated on another authorization. This registration is closed as duplicative.

**SURRENDER**

**SES-LIC-20160519-00447**      E160082      MOUBIC

License surrendered by letter filed on March 15, 2022.

For more information concerning this Notice, contact the Satellite Division at 418-0719; TTY 1-888-835-5322.