



# PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION  
445 12th STREET S.W.  
WASHINGTON D.C. 20554

News media information 202-418-0500  
Internet: <http://www.fcc.gov> (or <ftp.fcc.gov>)  
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Report No. SES-01830

Wednesday March 2, 2016

## 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.

**SES-AMD-20151205-00907** E E060157 Harris CapRock Communications, Inc.  
Amendment  
Grant of Authority Date Effective: 02/25/2016

**Class of Station:** Other

**Nature of Service:** Other

SITE ID: ESV  
LOCATION: 4400 S. Sam Houston Pkwy. E., Houston, TX

ANTENNA ID:	ESV4996	1.2 meters	Seatel	4996
	14000.0000 - 14500.0000 MHz	200KG7D	40.50 dBW	Digital
	14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
	14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
	14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
	14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
	14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
	14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
	14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
	14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital

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14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
11700.0000 - 12200.0000 MHz	200KG7D	0.00 dBW	Digital
11700.0000 - 12200.0000 MHz	1M85G7D		Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
ANTENNA ID: ESV6012	1.5 meters	SEATEL	6012
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	DIGITAL
12500.0000 - 12750.0000 MHz	1M76G7W		DIGITAL
12500.0000 - 12750.0000 MHz	2M41G7W		DIGITAL
12500.0000 - 12750.0000 MHz	3M52G7W		DIGITAL
12500.0000 - 12750.0000 MHz	5M77G7W		DIGITAL
11700.0000 - 12200.0000 MHz	1M92G7D		DIGITAL
11700.0000 - 12200.0000 MHz	3M85G7D		DIGITAL
11700.0000 - 12200.0000 MHz	5M76G7D		DIGITAL
11700.0000 - 12200.0000 MHz	7M68G7D		DIGITAL

11700.0000 - 12200.0000 MHz	8M67G7D		DIGITAL
11450.0000 - 11700.0000 MHz	1M76G7W		DIGITAL
11450.0000 - 11700.0000 MHz	2M41G7W		DIGITAL
11450.0000 - 11700.0000 MHz	3M52G7W		DIGITAL
11450.0000 - 11700.0000 MHz	5M77G7W		DIGITAL
10950.0000 - 11200.0000 MHz	1M76G7W		DIGITAL
10950.0000 - 11200.0000 MHz	2M41G7W		DIGITAL
10950.0000 - 11200.0000 MHz	3M52G7W		DIGITAL
10950.0000 - 11200.0000 MHz	5M77G7W		DIGITAL
ANTENNA ID: ESV6009	1.5 meters	SEATEL	6009
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	DIGITAL
12500.0000 - 12750.0000 MHz	1M76G7W		DIGITAL
12500.0000 - 12750.0000 MHz	2M41G7W		DIGITAL
12500.0000 - 12750.0000 MHz	3M52G7W		DIGITAL
12500.0000 - 12750.0000 MHz	5M77G7W		DIGITAL
11700.0000 - 12200.0000 MHz	1M92G7D		DIGITAL
11700.0000 - 12200.0000 MHz	3M85G7D		DIGITAL
11700.0000 - 12200.0000 MHz	5M76G7D		DIGITAL

11700.0000 - 12200.0000 MHz	7M68G7D	DIGITAL
11700.0000 - 12200.0000 MHz	8M67G7D	DIGITAL
11450.0000 - 11700.0000 MHz	1M76G7W	DIGITAL
11450.0000 - 11700.0000 MHz	2M41G7W	DIGITAL
11450.0000 - 11700.0000 MHz	3M52G7W	DIGITAL
11450.0000 - 11700.0000 MHz	5M77G7W	DIGITAL
10950.0000 - 11200.0000 MHz	1M76G7W	DIGITAL
10950.0000 - 11200.0000 MHz	2M41G7W	DIGITAL
10950.0000 - 11200.0000 MHz	3M52G7W	DIGITAL
10950.0000 - 11200.0000 MHz	5M77G7W	DIGITAL

SITE ID: Oceans  
LOCATION: 4400 S. Sam Houston Pkwy, USA, Houston, TX

ANTENNA ID:	ESV4003	1 meters	Seatel	4003
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital	
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital	
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital	
12500.0000 - 12750.0000 MHz	1M76G7W	Digital		
12500.0000 - 12750.0000 MHz	2M41G7W	Digital		
12500.0000 - 12750.0000 MHz	3M52G7W	Digital		
12500.0000 - 12750.0000 MHz	5M77G7W	Digital		
11700.0000 - 12200.0000 MHz	1M92G7D	Digital		
11700.0000 - 12200.0000 MHz	3M85G7D	Digital		
11700.0000 - 12200.0000 MHz	5M76G7D	Digital		

11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11700.0000 - 12200.0000 MHz	390KG7D		Digital
11450.0000 - 11700.0000 MHz	1M76G7W		Digital
11450.0000 - 11700.0000 MHz	2M41G7W		Digital
11450.0000 - 11700.0000 MHz	3M52G7W		Digital
11450.0000 - 11700.0000 MHz	5M77G7W		Digital
10950.0000 - 11200.0000 MHz	1M76G7W		Digital
10950.0000 - 11200.0000 MHz	2M41G7W		Digital
10950.0000 - 11200.0000 MHz	3M52G7W		Digital
10950.0000 - 11200.0000 MHz	5M77G7W		Digital
ANTENNA ID: ESV4006	1 meters	Seatel	4006
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
12500.0000 - 12750.0000 MHz	1M76G7W		Digital
12500.0000 - 12750.0000 MHz	2M41G7W		Digital
12500.0000 - 12750.0000 MHz	3M52G7W		Digital
12500.0000 - 12750.0000 MHz	5M77G7W		Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital

11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11700.0000 - 12200.0000 MHz	100KG7D		Digital
11450.0000 - 11700.0000 MHz	1M76G7W		Digital
11450.0000 - 11700.0000 MHz	3M52G7W		Digital
11450.0000 - 11700.0000 MHz	5M77G7W		Digital
10950.0000 - 11200.0000 MHz	1M76G7W		Digital
10950.0000 - 11200.0000 MHz	2M41G7W		Digital
10950.0000 - 11200.0000 MHz	3M52G7W		Digital
10950.0000 - 11200.0000 MHz	5M77G7W		Digital
ANTENNA ID: ESV4996	1.2 meters	Seatel	4996
ANTENNA ID: ESV6006	1.5 meters	Seatel	6006
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
12500.0000 - 12750.0000 MHz	1M76G7W		Digital
12500.0000 - 12750.0000 MHz	2M41G7W		Digital
12500.0000 - 12750.0000 MHz	3M52G7W		Digital
12500.0000 - 12750.0000 MHz	5M77G7W		Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital

11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11450.0000 - 11700.0000 MHz	1M76G7W		Digital
11450.0000 - 11700.0000 MHz	2M41G7W		Digital
11450.0000 - 11700.0000 MHz	3M52G7W		Digital
11450.0000 - 11700.0000 MHz	5M77G7W		Digital
10950.0000 - 11200.0000 MHz	1M76G7W		Digital
10950.0000 - 11200.0000 MHz	2M41G7W		Digital
10950.0000 - 11200.0000 MHz	3M52G7W		Digital
10950.0000 - 11200.0000 MHz	5M77G7W		Digital
ANTENNA ID: ESV9797	2.4 meters	Seatel	9797
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
14000.0000 - 14500.0000 MHz	3M30G7W	54.94 dBW	Digital
14000.0000 - 14500.0000 MHz	4M00G7W	55.80 dBW	Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital

11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11700.0000 - 12200.0000 MHz	150KG7D		Digital
11700.0000 - 12200.0000 MHz	27M0G7W		Digital

SITE ID: SEATEL 75CM(USAT30)  
LOCATION: 0.75CM (500 UNITS), OCEANS

ANTENNA ID: ESV75CM	0.75 meters	SEATEL	USAT 30
14000.0000 - 14500.0000 MHz	840KG7W	40.62 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	1M59G7W		DIGITAL

SITE ID: ORBIT 7103  
LOCATION: 1.2M (250 UNITS), LA

ANTENNA ID: ORBIT7103	1.2 meters	ORBIT	7103
14000.0000 - 14500.0000 MHz	1M1G7D	42.50 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	4M68G7D	48.50 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	8M67G7D		DIGITAL

SITE ID: INTELLIAN V60  
LOCATION: 0.6M. (500 UNITS) GM AO PO CARRIBBEAN SEA, US WATERWAYS

ANTENNA ID: INEL60CM	0.6 meters	INTELLIAN TECHNOLOGIES	INTELLIAN V60
14000.0000 - 14500.0000 MHz	567KG7W	37.22 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	3M00G7W	44.29 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	2M30G7W		DIGITAL

SITE ID: INTELLIAN V80  
LOCATION: 0.83M. (500 UNITS) GM AO PO CARRIBBEAN SEA, US WATERWAYS

ANTENNA ID: INTE83CM	0.83 meters	INTELLIAN	INTELLIAN V80
14000.0000 - 14500.0000 MHz	248KG7W	37.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M50G7W	44.78 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	2M05G7W	44.13 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	2M30G7W		DIGITAL



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SITE ID: ST5000-2.4  
LOCATION: 4400 S. SAM HOUSTON CENTER US AND INTERNATIONAL WATERWAYS, HOUSTON, TX

ANTENNA ID:	ST5000C	2.4 meters	HARRIS CAPROCK	ST5000
	5925.0000 - 6425.0000 MHz		1M00G7D 58.30 dBW	UP TO 32 APSK
	5925.0000 - 6425.0000 MHz		20M0G7D 61.40 dBW	UP TO 32 APSK
	3700.0000 - 4200.0000 MHz		1M00G7D	UP TO 32 APSK
	3700.0000 - 4200.0000 MHz		20M0G7D	UP TO 32 APSK
ANTENNA ID:	ST5000KU	2.4 meters	HARRIS CAPROCK	ST5000
	14000.0000 - 14500.0000 MHz		1M00G7D 53.40 dBW	UP TO 32 APSK
	14000.0000 - 14500.0000 MHz		20M0G7D 66.40 dBW	UP TO 32 APSK
	11700.0000 - 12200.0000 MHz		1M00G7D 0.00 dBW	UP TO 32 APSK
	11700.0000 - 12200.0000 MHz		20M0G7D	UP TO 32 APSK

**Points of Communication:**

ESV - EUTELSAT 115 (S2589) - (114.9 W.L.)  
ESV - PERMITTED LIST - ()  
INTELLIAN V60 - GALAXY 25 (S2154) - (93.1 W.L.)  
INTELLIAN V60 - PERMITTED LIST - ()  
INTELLIAN V80 - GALAXY 25 (S2154) - (93.1 W.L.)  
INTELLIAN V80 - PERMITTED LIST - ()  
Oceans - Eutelsat 113W(S2695) - (113 W.L.)  
Oceans - EUTELSAT 115 (S2589) - (114.9 W.L.)  
Oceans - TELSTAR 11 - (37.5 W.L.)  
ORBIT 7103 - PERMITTED LIST - ()  
ORBIT 7103 - TELSTAR 11N (S2357) - (37.5 W.L.)  
SEATEL 75CM(USAT30) - ESTRELA DO SUL 1 - (63 W.L.)  
SEATEL 75CM(USAT30) - GALAXY 26 - (93 W.L.)  
SEATEL 75CM(USAT30) - PERMITTED LIST - ()  
ST5000-2.4 - PERMITTED LIST - ()

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**SES-LIC-20151216-00945** E E150146 CBS Communications Services Inc.  
Application for Authority 03/01/2016 - 03/01/2031  
Grant of Authority Date Effective: 03/01/2016

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: (DSNG, WCCO-TV), CONUS

ANTENNA ID: 1 1.4 meters AVL Technologies 1410K  
14000.0000 - 14500.0000 MHz 36M0G7W 65.47 dBW compressed Digital Video and Audio

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-LIC-20160113-00033** E E160007 MOBILE SATELLITE CONNECTION,LLC  
Application for Authority 03/01/2016 - 03/01/2031  
Grant of Authority Date Effective: 03/01/2016

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

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: (C-&KU-BAND), VARIOUS

ANTENNA ID: TD #1Ku 2.4 meters Prodelin 1244  
14000.0000 - 14500.0000 MHz 36M0G7W 74.64 dBW Compressed Digital Video, DVBS, DVBS-2  
14000.0000 - 14500.0000 MHz 36M0G7W 74.64 dBW Compressed Digital Video, DVBS, DVBS-2  
14000.0000 - 14500.0000 MHz 51K2G7W 46.17 dBW Compressed Digital Video, DVBS, DVBS-2  
ANTENNA ID: TD #1C 2.4 meters Prodelin 1244  
5925.0000 - 6425.0000 MHz 36M0G7W 67.44 dBW Compressed Digital Video, DVBS, DVBS-2  
5925.0000 - 6425.0000 MHz 51K2G7W 38.97 dBW Compressed Digital Video, DVBS, DVBS-2

**Points of Communication:**

1 - PERMITTED LIST - ()

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SES-MFS-20151120-00855 E E4132 Intelsat License LLC

Modification

04/04/2006 - 04/04/2021

Grant of Authority

Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: 33 TELEGRAPH ROAD, VENTURA, FILLMORE, CA

34 ° 24 ' 22.00 " N LAT.

118 ° 53 ' 34.00 " W LONG.

ANTENNA ID:	FF-1	10 meters	SCIENTIFIC ATLANTA	3311	
6666.5000 - 6666.5000 MHz			750KG7D	75.00 dBW	COMMAND CARRIER
6420.0000 - 6425.0000 MHz			800KF2D	72.01 dBW	COMMAND, RANGING AND TRACKING TRANSMISSION
5925.0000 - 6425.0000 MHz			36M0F8F	76.00 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz			27M0F8F	73.00 dBW	ANALOG VIDEO
5925.0000 - 6425.0000 MHz			64K0G7D	55.40 dBW	DIGITAL DATA
5925.0000 - 6425.0000 MHz			54M0G7W	76.00 dBW	DIGITAL VIDEO & DATA
5925.0000 - 6425.0000 MHz			3M00G7W	67.50 dBW	DIGITAL VIDEO & DATA
5925.0000 - 6425.0000 MHz			750KF2D	69.00 dBW	COMMAND CARRIER
5925.0000 - 6425.0000 MHz			5M00F9D	69.00 dBW	COMMAND CARRIER
5925.0000 - 5930.0000 MHz			800KF2D	72.01 dBW	COMMAND, RANGING AND TRACKING TRANSMISSION
4195.0000 - 4200.0000 MHz			200KG7W		TELEMETRY, RANGING AND TRACKING TRANSMISSION
3700.0000 - 4200.0000 MHz			27M0F8F		
3700.0000 - 4200.0000 MHz			64K0G7D		
3700.0000 - 4200.0000 MHz			54M0G7W		
3700.0000 - 4200.0000 MHz			3M00G7W		
3700.0000 - 4200.0000 MHz			750KF2D		
3700.0000 - 4200.0000 MHz			5M00F9D		
3700.0000 - 4200.0000 MHz			82K0F3D		



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5925.0000 - 6425.0000 MHz	1M36G7W	68.00 dBW	DATA
3700.0000 - 4200.0000 MHz	1M36G7W		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
3700.0000 - 4200.0000 MHz	1M00G7W		DIGITAL DATA, VIDEO OR VOICE
3700.0000 - 4200.0000 MHz	72M0G7W		DIGITAL DATA, VIDEO OR VOICE
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
5925.0000 - 6425.0000 MHz	950KF3D	77.00 dBW	TT&C
3625.0000 - 3700.0000 MHz	60M0G7D		DIGITAL DATA, VIDEO OR VOICE
3700.0000 - 4200.0000 MHz	200KFXD		TT&C
6176.3000 - 6176.3000 MHz	850KFXD	78.97 dBW	TELEMETRY & RANGING
6173.7000 - 6173.7000 MHz	850KFXD	78.97 dBW	TELEMETRY & RANGING
3947.0000 - 3953.0000 MHz	850KFXD	0.00 dBW	TELEMETRY & RANGING

**Points of Communication:**

- 1 - INTEL 903 (S2407) - (34.5 W.L.)
- 1 - INTELSAT 805 (S2404) - (304.5 E.L.)
- 1 - INTELSAT 901 (S2405) - (18 W.L.)
- 1 - Intelsat 905 (S2409) - (24.5 W.L.)
- 1 - PAS-4 - (191.0 W.L.)
- 1 - PAS-9 (S2380) - (58.0 W.L.)
- 1 - PERMITTED LIST - ()
- 1 - PERMITTED LIST - ()
- 1 - TDRS-5 - (174.3 W.L.)

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**SES-MFS-20160112-00004** E E050335 Anadarko Petroleum Corporation

Modification

01/10/2006 - 01/10/2021

Grant of Authority

Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

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**Nature of Service:** Fixed Satellite Service

SITE ID: Independence Hub  
LOCATION: GULF OF MEXICO  
28 ° 5 ' 5.20 " N LAT.

87 ° 59 ' 9.80 " W LONG.

ANTENNA ID:	A1	2.4 meters	SEATEL	9797	
5925.0000 - 6425.0000 MHz			4M47G7W	50.05 dBW	DIGITAL
3700.0000 - 4200.0000 MHz			4M47G7W		DIGITAL
5925.0000 - 6425.0000 MHz			725KG7W	40.46 dBW	DIGITAL
3700.0000 - 4200.0000 MHz			725KG7W		DIGITAL

**Points of Communication:**

Independence Hub - Eutelsat 113W(S2695) - (113 W.L.)

Independence Hub - PERMITTED LIST - ()

Independence Hub - SATMEX-5 - (116.8 W.L.)

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**SES-MFS-20160112-00005** E E050206 Harris CapRock Communications, Inc. 08/23/2005 - 08/23/2020  
Modification  
Grant of Authority Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: Constitution Hub  
LOCATION: Gulf Of Mexico  
27 ° 17 ' 31.90 " N LAT.

90 ° 58 ' 4.80 " W LONG.

ANTENNA ID:	Seatel9797	2.4 meters	Seatel	9797	
5925.0000 - 6425.0000 MHz			2M05G7W	43.44 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz			100KG7W	37.47 dBW	Digital Data Carrier
5925.0000 - 6425.0000 MHz			4M47G7W	50.05 dBW	Digital
3700.0000 - 4200.0000 MHz			2M05G7W		Digital Data Carrier
3700.0000 - 4200.0000 MHz			100KG7W		Digital Data Carrier
3700.0000 - 4200.0000 MHz			4M47G7W		Digital
5925.0000 - 6425.0000 MHz			571KG7W	39.13 dBW	DIGITAL

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3700.0000 - 4200.0000 MHz

571KG7W

DIGITAL

**Points of Communication:**

Constitution Hub - Eutelsat 113W(S2695) - (113 W.L.)

Constitution Hub - PERMITTED LIST - ()

Constitution Hub - SATMEX-5 - (116.8 W.L.)

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**SES-MFS-20160112-00006** E E080138 Harris CapRock Communications, Inc.

Modification

07/15/2008 - 07/15/2023

Grant of Authority

Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: BHP Shenzi

LOCATION: GULF OF MEXICO, Gulf of Mexico

27 ° 18 ' 2.20 " N LAT.

90 ° 8 ' 6.00 " W LONG.

ANTENNA ID: Seatel9797 2.4 meters Seatel 9797

3700.0000 - 4200.0000 MHz 1M76G7W 0.00 dBW Digital

5925.0000 - 6425.0000 MHz 1M76G7W 49.00 dBW Digital

**Points of Communication:**

BHP Shenzi - Eutelsat 113W(S2695) - (113 W.L.)

BHP Shenzi - PERMITTED LIST - ()

BHP Shenzi - SATMEX-5 - (116.8 W.L.)

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**SES-MFS-20160112-00007** E E030159 Harris CapRock Communications, Inc.

Modification

01/13/2004 - 01/13/2019

Date Effective:

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: Gunnison Spar

LOCATION: GULF OF MEXICO, N/A

27 ° 18 ' 19.00 " N LAT.

93 ° 32 ' 20.00 " W LONG.

ANTENNA ID: Seatel9797 2.4 meters Seatel 9797

5925.0000 - 6425.0000 MHz 1M00G1W 48.97 dBW Digital Data, QPSK

5925.0000 - 6425.0000 MHz 4M47G7W 50.05 dBW DIGITAL





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**SES-MFS-20160112-00009** E E060221 Shell Communications, Inc.  
Modification 07/31/2006 - 07/31/2021  
Grant of Authority Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

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

SITE ID: GB172 SALSA  
LOCATION: GULF OF MEXICO  
27 ° 50 ' 25.20 " N LAT. 91 ° 59 ' 15.60 " W LONG.

ANTENNA ID:	Andrew243	2.4 meters	ANDREW	243
	3700.0000 - 4200.0000 MHz		4M30G7W	QPSK - Data
	5925.0000 - 6425.0000 MHz		4M30G7W 52.00 dBW	QPSK - Data

**Points of Communication:**

GB172 SALSA - Eutelsat 113W(S2695) - (113 W.L.)

GB172 SALSA - PERMITTED LIST - ()

GB172 SALSA - SATMEX-5 - (116.8 W.L.)

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**SES-MFS-20160112-00010** E E060222 Shell Communications, Inc.  
Modification 07/31/2006 - 07/31/2021  
Grant of Authority Date Effective: 02/29/2016

**Class of Station:** Fixed Earth Stations

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

SITE ID: ST300A Cougar  
LOCATION: GULF OF MEXICO  
28 ° 9 ' 24.60 " N LAT. 90 ° 42 ' 34.80 " W LONG.

ANTENNA ID:	Andrew243	2.4 meters	ANDREW	243
	6067.0000 - 6103.0000 MHz		4M30G7W 52.00 dBW	QPSK - Data
	3700.0000 - 4200.0000 MHz		4M30G7W	QPSK - Data
	3700.0000 - 4200.0000 MHz		4M30G7W	DIGITAL
	5925.0000 - 5958.0000 MHz		4M30G7W 52.00 dBW	DIGITAL
	6001.0000 - 6008.0000 MHz		4M30G7W 52.00 dBW	DIGITAL
	6061.0000 - 6200.0000 MHz		4M30G7W 52.00 dBW	DIGITAL
	6253.0000 - 6260.0000 MHz		4M30G7W 52.00 dBW	DIGITAL

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6313.0000 - 6425.0000 MHz	4M30G7W	52.00 dBW	DIGITAL
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**Points of Communication:**

ST300A Cougar - Eutelsat 113W(S2695) - (113 W.L.)

ST300A Cougar - PERMITTED LIST - ()

ST300A Cougar - SATMEX-5 - (116.8 W.L.)

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**SES-MOD-20150915-00599** E E060157 Harris CapRock Communications, Inc.

Application for Modification

08/14/2006 - 08/14/2021

Grant of Authority

Date Effective: 02/25/2016

**Class of Station:** Other

**Nature of Service:** Other

SITE ID: ESV

LOCATION: 4400 S. Sam Houston Pkwy. E., Houston, TX

ANTENNA ID: ESV4996 1.2 meters Seatel 4996

14000.0000 - 14500.0000 MHz	200KG7D	40.50 dBW	Digital
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14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
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14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
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14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
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14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
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14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
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14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
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14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
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14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
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14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
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11700.0000 - 12200.0000 MHz	200KG7D	0.00 dBW	Digital
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11700.0000 - 12200.0000 MHz	1M85G7D		Digital
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11700.0000 - 12200.0000 MHz	1M92G7D		Digital
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11700.0000 - 12200.0000 MHz	3M85G7D		Digital
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11700.0000 - 12200.0000 MHz	5M76G7D		Digital
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11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
ANTENNA ID: ESV6012	1.5 meters	SEATEL	6012
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	DIGITAL
12500.0000 - 12750.0000 MHz	1M76G7W		DIGITAL
12500.0000 - 12750.0000 MHz	2M41G7W		DIGITAL
12500.0000 - 12750.0000 MHz	3M52G7W		DIGITAL
12500.0000 - 12750.0000 MHz	5M77G7W		DIGITAL
11700.0000 - 12200.0000 MHz	1M92G7D		DIGITAL
11700.0000 - 12200.0000 MHz	3M85G7D		DIGITAL
11700.0000 - 12200.0000 MHz	5M76G7D		DIGITAL
11700.0000 - 12200.0000 MHz	7M68G7D		DIGITAL
11700.0000 - 12200.0000 MHz	8M67G7D		DIGITAL
11450.0000 - 11700.0000 MHz	1M76G7W		DIGITAL
11450.0000 - 11700.0000 MHz	2M41G7W		DIGITAL
11450.0000 - 11700.0000 MHz	3M52G7W		DIGITAL
11450.0000 - 11700.0000 MHz	5M77G7W		DIGITAL
10950.0000 - 11200.0000 MHz	1M76G7W		DIGITAL

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10950.0000 - 11200.0000 MHz	2M41G7W		DIGITAL
10950.0000 - 11200.0000 MHz	3M52G7W		DIGITAL
10950.0000 - 11200.0000 MHz	5M77G7W		DIGITAL
ANTENNA ID:   ESV6009	1.5 meters	SEATEL	6009
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	DIGITAL
12500.0000 - 12750.0000 MHz	1M76G7W		DIGITAL
12500.0000 - 12750.0000 MHz	2M41G7W		DIGITAL
12500.0000 - 12750.0000 MHz	3M52G7W		DIGITAL
12500.0000 - 12750.0000 MHz	5M77G7W		DIGITAL
11700.0000 - 12200.0000 MHz	1M92G7D		DIGITAL
11700.0000 - 12200.0000 MHz	3M85G7D		DIGITAL
11700.0000 - 12200.0000 MHz	5M76G7D		DIGITAL
11700.0000 - 12200.0000 MHz	7M68G7D		DIGITAL
11700.0000 - 12200.0000 MHz	8M67G7D		DIGITAL
11450.0000 - 11700.0000 MHz	1M76G7W		DIGITAL
11450.0000 - 11700.0000 MHz	2M41G7W		DIGITAL
11450.0000 - 11700.0000 MHz	3M52G7W		DIGITAL
11450.0000 - 11700.0000 MHz	5M77G7W		DIGITAL

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10950.0000 - 11200.0000 MHz	1M76G7W	DIGITAL
10950.0000 - 11200.0000 MHz	2M41G7W	DIGITAL
10950.0000 - 11200.0000 MHz	3M52G7W	DIGITAL
10950.0000 - 11200.0000 MHz	5M77G7W	DIGITAL

SITE ID: Oceans  
LOCATION: 4400 S. Sam Houston Pkwy, USA, Houston, TX

ANTENNA ID:	ESV4003	1 meters	Seatel	4003
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital	
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital	
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital	
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital	
12500.0000 - 12750.0000 MHz	1M76G7W	Digital		
12500.0000 - 12750.0000 MHz	2M41G7W	Digital		
12500.0000 - 12750.0000 MHz	3M52G7W	Digital		
12500.0000 - 12750.0000 MHz	5M77G7W	Digital		
11700.0000 - 12200.0000 MHz	1M92G7D	Digital		
11700.0000 - 12200.0000 MHz	3M85G7D	Digital		
11700.0000 - 12200.0000 MHz	5M76G7D	Digital		
11700.0000 - 12200.0000 MHz	7M68G7D	Digital		
11700.0000 - 12200.0000 MHz	8M67G7D	Digital		
11700.0000 - 12200.0000 MHz	390KG7D	Digital		
11450.0000 - 11700.0000 MHz	1M76G7W	Digital		
11450.0000 - 11700.0000 MHz	2M41G7W	Digital		
11450.0000 - 11700.0000 MHz	3M52G7W	Digital		

11450.0000 - 11700.0000 MHz	5M77G7W		Digital
10950.0000 - 11200.0000 MHz	1M76G7W		Digital
10950.0000 - 11200.0000 MHz	2M41G7W		Digital
10950.0000 - 11200.0000 MHz	3M52G7W		Digital
10950.0000 - 11200.0000 MHz	5M77G7W		Digital
ANTENNA ID:   ESV4006	1 meters	Seatel	4006
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
12500.0000 - 12750.0000 MHz	1M76G7W		Digital
12500.0000 - 12750.0000 MHz	2M41G7W		Digital
12500.0000 - 12750.0000 MHz	3M52G7W		Digital
12500.0000 - 12750.0000 MHz	5M77G7W		Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11700.0000 - 12200.0000 MHz	100KG7D		Digital
11450.0000 - 11700.0000 MHz	1M76G7W		Digital
11450.0000 - 11700.0000 MHz	3M52G7W		Digital
11450.0000 - 11700.0000 MHz	5M77G7W		Digital
10950.0000 - 11200.0000 MHz	1M76G7W		Digital

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10950.0000 - 11200.0000 MHz	2M41G7W		Digital
10950.0000 - 11200.0000 MHz	3M52G7W		Digital
10950.0000 - 11200.0000 MHz	5M77G7W		Digital
ANTENNA ID: ESV4996	1.2 meters	Seatel	4996
ANTENNA ID: ESV6006	1.5 meters	Seatel	6006
14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
14000.0000 - 14500.0000 MHz	150KG7D	38.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
12500.0000 - 12750.0000 MHz	1M76G7W		Digital
12500.0000 - 12750.0000 MHz	2M41G7W		Digital
12500.0000 - 12750.0000 MHz	3M52G7W		Digital
12500.0000 - 12750.0000 MHz	5M77G7W		Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11450.0000 - 11700.0000 MHz	1M76G7W		Digital
11450.0000 - 11700.0000 MHz	2M41G7W		Digital
11450.0000 - 11700.0000 MHz	3M52G7W		Digital

11450.0000 - 11700.0000 MHz	5M77G7W	Digital
10950.0000 - 11200.0000 MHz	1M76G7W	Digital
10950.0000 - 11200.0000 MHz	2M41G7W	Digital
10950.0000 - 11200.0000 MHz	3M52G7W	Digital
10950.0000 - 11200.0000 MHz	5M77G7W	Digital

ANTENNA ID:    ESV9797            2.4 meters            Seatel            9797

14000.0000 - 14500.0000 MHz	100KG7D	37.00 dBW	Digital
14000.0000 - 14500.0000 MHz	1M17G7D	47.80 dBW	Digital
14000.0000 - 14500.0000 MHz	1M56G7D	49.10 dBW	Digital
14000.0000 - 14500.0000 MHz	200KG7D	40.00 dBW	Digital
14000.0000 - 14500.0000 MHz	300KG7D	41.80 dBW	Digital
14000.0000 - 14500.0000 MHz	390KG7D	43.00 dBW	Digital
14000.0000 - 14500.0000 MHz	50K0G7D	34.00 dBW	Digital
14000.0000 - 14500.0000 MHz	780KG7D	46.00 dBW	Digital
14000.0000 - 14500.0000 MHz	3M30G7W	54.94 dBW	Digital
14000.0000 - 14500.0000 MHz	4M00G7W	55.80 dBW	Digital
11700.0000 - 12200.0000 MHz	1M92G7D		Digital
11700.0000 - 12200.0000 MHz	3M85G7D		Digital
11700.0000 - 12200.0000 MHz	5M76G7D		Digital
11700.0000 - 12200.0000 MHz	7M68G7D		Digital
11700.0000 - 12200.0000 MHz	8M67G7D		Digital
11700.0000 - 12200.0000 MHz	150KG7D		Digital
11700.0000 - 12200.0000 MHz	27M0G7W		Digital

SITE ID:            SEATEL 75CM(USAT30)  
LOCATION:            0.75CM (500 UNITS), OCEANS

ANTENNA ID:    ESV75CM            0.75 meters            SEATEL            USAT 30



14000.0000 - 14500.0000 MHz	840KG7W	40.62 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	1M59G7W		DIGITAL

SITE ID: ORBIT 7103  
 LOCATION: 1.2M (250 UNITS), LA

ANTENNA ID: ORBIT7103      1.2 meters      ORBIT      7103

14000.0000 - 14500.0000 MHz	1M1G7D	42.50 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	4M68G7D	48.50 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	8M67G7D		DIGITAL

SITE ID: INTELLIAN V60  
 LOCATION: 0.6M. (500 UNITS) GM AO PO CARRIBBEAN SEA, US WATERWAYS

ANTENNA ID: INEL60CM      0.6 meters      INTELLIAN TECHNOLOGIES      INTELLIAN V60

14000.0000 - 14500.0000 MHz	567KG7W	37.22 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	3M00G7W	44.29 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	2M30G7W		DIGITAL

SITE ID: INTELLIAN V80  
 LOCATION: 0.83M. (500 UNITS) GM AO PO CARRIBBEAN SEA, US WATERWAYS

ANTENNA ID: INTE83CM      0.83 meters      INTELLIAN      INTELLIAN V80

14000.0000 - 14500.0000 MHz	248KG7W	37.80 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	1M50G7W	44.78 dBW	DIGITAL
14000.0000 - 14500.0000 MHz	2M05G7W	44.13 dBW	DIGITAL
11700.0000 - 12200.0000 MHz	2M30G7W		DIGITAL

SITE ID: ST5000-2.4  
 LOCATION: 4400 S. SAM HOUSTON CENTER US AND INTERNATIONAL WATERWAYS, HOUSTON, TX

ANTENNA ID: ST5000C      2.4 meters      HARRIS CAPROCK      ST5000

5925.0000 - 6425.0000 MHz	1M00G7D	58.30 dBW	UP TO 32 APSK
5925.0000 - 6425.0000 MHz	20M0G7D	61.40 dBW	UP TO 32 APSK
3700.0000 - 4200.0000 MHz	1M00G7D		UP TO 32 APSK
3700.0000 - 4200.0000 MHz	20M0G7D		UP TO 32 APSK

ANTENNA ID:	ST5000KU	2.4 meters	HARRIS CAPROCK	ST5000	
	14000.0000 - 14500.0000 MHz		1M00G7D	53.40 dBW	UP TO 32 APSK
	14000.0000 - 14500.0000 MHz		20M0G7D	66.40 dBW	UP TO 32 APSK
	11700.0000 - 12200.0000 MHz		1M00G7D	0.00 dBW	UP TO 32 APSK
	11700.0000 - 12200.0000 MHz		20M0G7D		UP TO 32 APSK

**Points of Communication:**

ESV - EUTELSAT 115 (S2589) - (114.9 W.L.)

ESV - PERMITTED LIST - ()

INTELLIAN V60 - GALAXY 25 (S2154) - (93.1 W.L.)

INTELLIAN V60 - PERMITTED LIST - ()

INTELLIAN V80 - GALAXY 25 (S2154) - (93.1 W.L.)

INTELLIAN V80 - PERMITTED LIST - ()

Oceans - Eutelsat 113W(S2695) - (113 W.L.)

Oceans - EUTELSAT 115 (S2589) - (114.9 W.L.)

Oceans - TELSTAR 11 - (37.5 W.L.)

ORBIT 7103 - PERMITTED LIST - ()

ORBIT 7103 - TELSTAR 11N (S2357) - (37.5 W.L.)

SEATEL 75CM(USAT30) - ESTRELA DO SUL 1 - (63 W.L.)

SEATEL 75CM(USAT30) - GALAXY 26 - (93 W.L.)

SEATEL 75CM(USAT30) - PERMITTED LIST - ()

ST5000-2.4 - PERMITTED LIST - ()

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<b>SES-MOD-20151209-00926</b>	E E4489	Alascom, Inc.	07/30/2002 - 07/30/2017
Application for Modification			Date Effective: 02/29/2016
Grant of Authority			

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1

LOCATION: NSN SOUTHERN ST., STEBBINS, AK  
63 ° 31 ' 2.60 " N LAT. 162 ° 17 ' 17.80 " W LONG.

ANTENNA ID:	1	4.5 meters	ANDREW CORPORATION	ESA5-46
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5925.0000 - 6425.0000 MHz	15M9G7W	57.16 dBW	VARIOUS PSK & QAM - VOICE AND DATA
5925.0000 - 6425.0000 MHz	29K0G7W	52.10 dBW	VARIOUS PSK & QAM - VOICE AND DATA
3700.0000 - 4200.0000 MHz	15M9G7W	0.00 dBW	VARIOUS PSK & QAM - VOICE AND DATA
3700.0000 - 4200.0000 MHz	29K0G7W		VARIOUS PSK & QAM - VOICE AND DATA

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-MOD-20151210-00928** E E090176 Harris CapRock Communications, Inc. 01/08/2010 - 01/08/2025  
 Application for Modification Grant of Authority Date Effective: 02/25/2016

**Class of Station:** Other

**Nature of Service:** Other

SITE ID: Oceans  
 LOCATION: GULF OF MEXICO, US CHANNELS & WATERWAYS CARIBBEAN SEA, POR, AOR, Gulf of Mexico, TX  
 0 ° 0 ' 0.00 " N LAT. 0 ° 0 ' 0.00 " W LONG.

ANTENNA ID:	Seatel9797	2.4 meters	Seatel	9797	
	5925.0000 - 6425.0000 MHz		1M85G7D	57.00 dBW	Digital
	5925.0000 - 6425.0000 MHz		200KG7W	47.70 dBW	Digital
	3700.0000 - 4200.0000 MHz		200KG7W	0.00 dBW	Digital
	3700.0000 - 4200.0000 MHz		1M85G7D	0.00 dBW	Digital

SITE ID: ORB7108  
 LOCATION: GULF OF MEXICO, US CHANNELS & WATERWAYS CARIBBEAN SEA, POR, AOR, LA

ANTENNA ID:	ORB7108	2.4 meters	ORBIT	7108	
	5925.0000 - 6425.0000 MHz		1M85G7D	56.70 dBW	DIGITAL
	3700.0000 - 4200.0000 MHz		1M85G7D		DIGITAL

SITE ID: ORB7109  
 LOCATION: GULF OF MEXICO, US CHANNELS & WATERWAYS CARIBBEAN SEA, POR, AOR, LA

ANTENNA ID:	ORB7109	2.4 meters	ORBIT	7109	
	5925.0000 - 6425.0000 MHz		1M85G7D	56.70 dBW	DIGITAL

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3700.0000 - 4200.0000 MHz	1M85G7D		DIGITAL
SITE ID: Int v240M			
LOCATION: 4400 S. SAM HOUSTON PKWY, E. U.S. AND INTERNATIONAL WATERWAYS, HOUSTON, TX			
ANTENNA ID: V240M(C)	2.4 meters	INTELLIAN	V240M
5925.0000 - 6425.0000 MHz	1M00G7D	48.90 dBW	UP TO 32 APSK
5925.0000 - 6425.0000 MHz	20M0G7D	61.90 dBW	UP TO 32 APSK
3700.0000 - 4200.0000 MHz	1M00G7D		UP TO 32 APSK
3700.0000 - 4200.0000 MHz	20M0G7D		UP TO 32 APSK

SITE ID: Int v240M			
LOCATION: 4400 S. SAM HOUSTON PKWY, E. U.S. AND INTERNATONAL WATERWAYS, HOUSTON, TX			
ANTENNA ID: V240M(KU)	2.4 meters	INTELLIAN	V240M
14000.0000 - 14500.0000 MHz	1M00G7D	53.30 dBW	UP TO 32 APSK
14000.0000 - 14500.0000 MHz	20M0G7D	66.30 dBW	UP TO 32 APSK
11700.0000 - 12200.0000 MHz	1M00G7D		UP TO 32 APSK
11700.0000 - 12200.0000 MHz	20M0G7D		UP TO 32 APSK

**Points of Communication:**

- Int v240M - PERMITTED LIST - ()
  - Int v240M - PERMITTED LIST - ()
  - Oceans - Eutelsat 113W(S2695) - (113 W.L.)
  - Oceans - INTELSAT 707 - (53 W.L.)
  - Oceans - PERMITTED LIST - ()
  - Oceans - SATMEX-5 - (116.8 W.L.)
  - ORB7108 - INTELSAT 605 - (332.5 E.L.)
  - ORB7108 - PERMITTED LIST - ()
  - ORB7109 - INTELSAT 605 - (332.5 E.L.)
  - ORB7109 - PERMITTED LIST - ()
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**SES-REG-20160118-00055** E E160009 Andrews Broadcasting Corp. **EZ**  
Registration 01/18/2016 - 01/18/2031  
Grant of Authority Date Effective: 02/23/2016

**Class of Station:** Fixed Earth Stations

**Nature of Service:** Fixed Satellite Service

SITE ID: 1  
LOCATION: Howard Performing Arts Center Andrews University, Berrien, Berrien Springs, MI  
41 ° 57 ' 36.40 " N LAT. 86 ° 21 ' 27.60 " W LONG.

ANTENNA ID:	4.5m	4.5 meters	Rockwell	4.5 Meter
	3700.0000 - 4200.0000 MHz		30K0F1D	Digital Data Carrier
	3700.0000 - 4200.0000 MHz		10M3G7W	Digital Data Carrier

**Points of Communication:**

1 - PERMITTED LIST - ()

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**SES-STA-20151222-00972** E E030096 Intelsat License LLC  
Special Temporary Authority  
Grant of Authority Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Intelsat License LLC was granted special temporary authority, for 30 days commencing February 25, 2016, to operate its fixed earth station in Castle Rock, CO, to conduct telemetry, tracking, and command services for the Intelsat 16 satellite (S2750) as it drifts from the 76.2° W.L. orbital location to the 58.1° W.L. orbital location, on the following center frequencies: 13997.50 MHz and 14499.50 MHz (Earth-to-space), and 12198.25 MHz and 12198.75 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160203-00114** E KA258 Intelsat License LLC  
Special Temporary Authority  
Grant of Authority Date Effective: 02/24/2016

**Class of Station:**

On February 24, 2016, Intelsat License LLC was granted special temporary authority for 30 days, commencing February 24, 2016, to continue to use its fixed earth station in Hagerstown, MD to provide launch and early orbit phase (LEOP) services to the SES-9 satellite, licensed by Gibraltar, as it proceeds to its in-orbit test location at 113.5° E.L. and its permanent orbital location at 108.4° E.L. on the following center frequencies: 13753.0 MHz, 13998.0 MHz, and 14496.0 MHz (Earth-to-space), and 11199.5 MHz, 11702.5 MHz, and 12246.5 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160214-00135** E E030253 Harris CapRock Communications, Inc.  
Special Temporary Authority  
Grant of Authority Date Effective: 02/23/2016

**Class of Station:**

On February 23, 2016, Harris CapRock Communications, Inc. was granted special temporary authority for 60 days, commencing February 24, 2016, to operate its fixed earth station in Houston, TX, to communicate with the Telstar 14R/Estrela DO SUL 2 satellite (S2821) at the 63 W.L. orbital location in the 13.8-14.0 GHz (Earth-to-space) and 11.45-11.7 GHz (space-to-Earth) frequency bands.

**Points of Communication:**

**SES-STA-20160217-00146** E E4132 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 02/29/2016

**Class of Station:**

On February 29, 2016, Intelsat License LLC was granted special temporary authority for 30 days, commencing March 10, 2016, to operate its fixed earth station in Fillmore, CA to provide launch and early orbit phase services (LEOP) for the Indian Regional Navigational Satellite System 1F (IRNSS-1F) satellite as it proceeds to the 32.5° E.L. orbital location on the following center frequencies: 6424.072 MHz and 6425.980 MHz (Earth-to-space) and 4198.56 MHz and 4199.28 MHz (space-to-Earth).

**Points of Communication:**

**SES-STA-20160217-00147** E E040125 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 02/29/2016

**Class of Station:**

On February 29, 2016, Intelsat License LLC was granted special temporary authority for 30 days, commencing March 10, 2016, to operate its C-band earth station, in Riverside, CA to provide launch and early orbit phase services (LEOP) for the Indian Regional Navigational Satellite System 1F (IRNSS-1F) satellite as it proceeds to the 32.5° E.L. orbital location on the following center frequencies: 6424.072 MHz and 6425.980 MHz (Earth-to-space), and 4198.56 MHz and 4199.28 MHz (space-to-Earth).

**Points of Communication:**

**SES-STA-20160218-00142** E E100089 Panasonic Avionics Corporation

Special Temporary Authority

Grant of Authority

Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Panasonic Avionics Corporation (Panasonic) was granted special temporary authority for 60 days, commencing February 29, 2016, to operate up to twenty-five (25) Panasonic Single-Panel Antenna (SPA) terminals, onboard Canadian-based WestJet Airlines. The SPA terminals are technically identical to the currently authorized Panasonic model AURA LE 0.89 meter antennas (PPA). Operations are authorized with the AMC-16 (Call Sign S2181) at 85° W.L, Galaxy 16 (Call Sign S2687) at 99° W.L, Galaxy 17 (Call Sign S2175) at 91° W.L., and Eutelsat 172A (Call Sign S2610) at 172° E.L. satellites serving U.S. territory in the 14.0-14.5 GHz (Earth-to-space) frequency band and in the downlink (space-to-Earth) frequency bands identified in the table below:

Satellite	Orbital Location	Downlink Freq.	ITU Region	Service To U.S.
AMC-16	85° W	11.7-12.2 GHz	2	Yes
Galaxy 16	99° W	11.7-12.2 GHz	2	Yes
Galaxy 17	91° W	11.7-12.2 GHz	2	Yes
Eutelsat 172A	172° E	10.95-11.2 GHz; 11.45-11.7 GHz	2	Yes

Panasonic was also granted special temporary authority to operate the Panasonic model PPA terminals with the Telstar 12 Vantage (S2933) satellite operating at the 15° W.L. orbital location in the 14.0-14.5 GHz (Earth-to-space) and the 10.95-12.2 GHz (space-to-Earth) frequency bands in Region 1.

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**Points of Communication:**

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**SES–STA–20160219–00149** E E4132 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 02/23/2016

**Class of Station:**

On February 23, 2016, Intelsat License LLC was granted of special temporary authority for 60 days, commencing February 27, 2016, to operate its fixed earth station in Fillmore, CA to conduct tracking, telemetry, and command services for the Intelsat 805 satellite (S2887) at the 169.0 E.L. orbital location on the following center frequencies: 3947.5 MHz, 3948.0 MHz, 3952.0 MHz, 3952.5 MHz (space-to-Earth) and 6173.7 MHz and 6176.3 MHz (Earth-to-space).

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**Points of Communication:**

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**SES–STA–20160219–00150** E E950307 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 02/23/2016

**Class of Station:**

On February 23, Intelsat License LLC was granted of special temporary authority for 60 days, commencing February 27, 2016, to operate its fixed earth station in Napa, CA to conduct tracking, telemetry, and command services for the Intelsat 805 (S2887) satellite at the 169.0° E.L. orbital location on the following center frequencies: 3947.5 MHz, 3948.0 MHz, 3952.0 MHz, 3952.5 MHz (space-to-Earth) and 6173.7 MHz and 6176.3 MHz (Earth-to-space).

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**Points of Communication:**

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**SES–STA–20160219–00155** E E150128 Telesat Network Services, Inc.

Special Temporary Authority

Grant of Authority

Date Effective: 02/26/2016

**Class of Station:**

On February 26, 2016, Telesat Network Services, Inc. was granted special temporary authority, for a period of 30 days commencing March 1, 2016, to operate a temporary-fixed earth station in Mount Jackson, VA, to communicate with the Telstar 12V (S2933) satellite at the 15° W.L. orbital location, using the following center frequencies: 28350- 28872 MHz, 29300-29500 MHz (Earth-to-space), and 18306-19103 MHz, 19700-20070 MHz (space-to-Earth).

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**Points of Communication:**

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**SES–STA–20160222–00157** E E4132 Intelsat License LLC

Special Temporary Authority

Grant of Authority

Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Intelsat License LLC was granted special temporary authority for 30 days, commencing February 27, 2016, to continue to operate its fixed earth station in Fillmore, CA to provide: (1) launch and early orbit phase (LEOP) services to the Intelsat 29e satellite; (2) telemetry, tracking, and command (TT&C) during in-orbit testing ('IOT') of the Intelsat 29e satellite at 49.7° W.L.; and (3) TT&C during the drift of Intelsat 29e to its final location at 50.0° W.L. on the following center frequencies: 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, and 3702.75 MHz (space-to-Earth) and 5850.5 MHz, 5853.0 MHz, 6422.0 MHz, and 6424.5-MHz (Earth-to-space).

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**Points of Communication:**

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**SES-STA-20160222-00158** E E040125 Intelsat License LLC

Special Temporary Authority  
Grant of Authority

Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Intelsat License LLC was granted special temporary authority for 30 days, commencing February 27, 2016, to operate its fixed earth station in Riverside, CA to provide: (1) launch and early orbit phase (LEOP) services to the Intelsat 29e satellite; (2) telemetry, tracking, and command (TT&C) during in-orbit testing (IOT) of the Intelsat 29e satellite at 49.7° W.L.; and (3) TT&C during the drift of Intelsat 29e to its final location at 50.0° W.L. on the following center frequencies: 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, and 3702.75 MHz (space-to-Earth) and 5850.5 MHz, 5853.0 MHz, 6422.0 MHz, and 6424.5-MHz (Earth-to-space).

**Points of Communication:**

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**SES-STA-20160222-00159** E E150002 Intelsat License LLC

Special Temporary Authority  
Grant of Authority

Date Effective: 02/24/2016

**Class of Station:**

On February 24, 2016, Intelsat License LLC was granted special temporary authority, for a period of 30 days commencing February 24, 2016, to continue to operate its fixed earth station in Hagerstown, MD, to provide launch and early orbit phase ("LEOP") services, telemetry, tracking, and command ("TT&C") services, and in-orbit testing ("IOT") for the Intelsat 29e (S2913) satellite at the 49.7° W.L. orbital location and during its drift to the 50.0° W.L. orbital location using the following center frequencies: 5850.5 MHz, 5853.0 MHz, 6422.0 MHz, and 6424.5 MHz (Earth-to-space), and 3701.25 MHz, 3701.75 MHz, 3702.25 MHz and 3702.75 MHz (space-to-Earth).

**Points of Communication:**

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**SES-STA-20160222-00160** E E000296 Intelsat License LLC

Special Temporary Authority  
Grant of Authority

Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Intelsat License LLC was granted special temporary authority for 30 days, beginning February 27, 2016, to continue to operate fixed earth station in Hagerstown, MD to provide: (1) launch and early orbit phase ('LEOP') services to the Intelsat 29e satellite; (2) telemetry, tracking, and command (TT&C) during in-orbit testing ('IOT') of the Intelsat 29e satellite at 49.7° W.L.; and (3) TT&C during the drift of Intelsat 29e to its final location at 50.0° W.L. on following center frequencies: 3701.25 MHz, 3701.75 MHz, 3702.25 MHz, and 3702.75 MHz (space-to-Earth) and 5850.5 MHz, 5853.0 MHz, 6422.0 MHz, and 6424.5-MHz (Earth-to-space).

**Points of Communication:**

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**SES-STA-20160223-00164** E WA28 Satcom Direct Government, Inc.

Special Temporary Authority  
Grant of Authority

Date Effective: 02/25/2016

**Class of Station:**

On February 25, 2016, Airbus DS SatCom Government, Inc. was granted special temporary authority for 60 days commencing February 25, 2016, to operate Antenna IDs 21CNORM, 21CTTC and 21LBAND at its fixed earth station in Southbury, CT with the Inmarsat-3 F5 satellite at the 54° W.L. orbital location using the 5925-6425 MHz and 1626-1660.5 MHz, (Earth-to-space) and 3700-4200 MHz and 1525-1559 MHz (space-to-Earth) frequency bands.

**Points of Communication:**

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**Dismissal**

**SES-STA-20160204-00120**

E030029

Telesat Network Services, Inc.

Application for spacial temporary authority dismissed as moot. See IBFS File No. SES-MOD-20150701-00437 granted on March 23, 2016.

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