



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Comsat, Inc.

Call Sign: KA304

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00703

Common Carrier

Grant date: 04/25/2016

Expiration Date: 10/04/2026



Nature of Service: Fixed Satellite Service

Nature of Service: Mobile Satellite Service

Class of Station: Mobile Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	2120 RIVER ROAD SOUTHBURY, NEW HAVEN, CT 06488	41°27'6.0"N	73°17'23.0"W	224.7	27
2)	HUB (1.2M) KU	2120 RIVER ROAD (1.2M) KU SOUTHBURY, NEW HAVEN, CT 06488	41°27'5.4"N	73°17'21.0"W	36.6	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
3)	HUB (6.1M) KU	2120 RIVER ROAD (6.1M) KU SOUTHBURY, NEW HAVEN, CT 06488	41°27'5.3"N	73°17'17.1"W	36.6	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
4)	HUB (8.1M) KU	2120 RIVER ROAD (8.1M.) KU SOUTHBURY, NEW HAVEN, CT 06488	41°27'6.2"N	73°17'18.1"W	36.6	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
5)	SBY301KU	2120 RIVER ROAD (9.0M.KU) SOUTHBURY, NEW HAVEN, CT 06488	41°27'7.0"N	73°17'19.8"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						
6)	SBY332KU	2120 RIVER ROAD (9.0M.KU) SOUTHBURY, NEW HAVEN, CT 06488	41°27'5.7"N	73°17'17.6"W	35.7	83
Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209						



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A) Site Location(s)

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7)	SBY343KU	2120 RIVER ROAD (4.8M.KU) SOUTHURY, NEW HAVEN, CT 06488	41°27'4.3"N	73°17'22.4"W	37.7	83

Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning October 4, 2011 (3 AM Eastern Standard Time) and ending October 4, 2026 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is April 25, 2017 (3 AM Eastern Standard Time) . Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	14000.0000-14500.0000	H, V, L, R	169KG7W	Tx	55.30	29.10	(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
2)	14000.0000-14500.0000	H, V, L, R	1M62G7W	Tx	55.30	29.30	(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
3)	14000.0000-14500.0000	H, V, L, R	36M0G7W	Tx	63.30	23.80	(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
4)	14000.0000-14500.0000	H, V, L, R	64K0G7W	Tx	41.30	29.30	(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
5)	11700.0000-12200.0000	H, V, L, R	36M0G7W	Rx			(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
6)	11700.0000-12200.0000	H, V, L, R	3M00G7W	Rx			(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
7)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
8)	11700.0000-12200.0000	H, V, L, R	64K0G7W	Rx			(1.2M) KU		DIGITAL AUDIO, VIDEO, AND DATA
9)	14000.0000-14500.0000	H, V	36M0F8W	Tx	80.14	40.60	(6.1M) KU		ANALOG VIDEO



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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
10)	14000.0000-14500.0000	H, V	100KG7W	Tx	57.07	43.09	(6.1M) KU		QPSK DIGITAL DATA
11)	14000.0000-14500.0000	H, V	20M0G7W	Tx	80.08	43.09	(6.1M) KU		QPSK DIGITAL DATA
12)	14000.0000-14500.0000	H, V	2M29G7W	Tx	70.67	43.09	(6.1M) KU		QPSK DIGITAL DATA
13)	14000.0000-14500.0000	H, V	32K0G7W	Tx	52.13	43.10	(6.1M) KU		QPSK DIGITAL DATA
14)	14000.0000-14500.0000	H, V	36M0G7W	Tx	79.63	37.39	(6.1M) KU		QPSK DIGITAL DATA
15)	14000.0000-14500.0000	H, V	43K8G7W	Tx	53.49	43.10	(6.1M) KU		QPSK DIGITAL DATA
16)	14000.0000-14500.0000	H, V	45K0G7W	Tx	53.61	43.10	(6.1M) KU		QPSK DIGITAL DATA
17)	14000.0000-14500.0000	H, V	76K8G7W	Tx	55.93	43.10	(6.1M) KU		QPSK DIGITAL DATA
18)	14000.0000-14500.0000	H, V	9K00G7W	Tx	46.62	43.10	(6.1M) KU		QPSK DIGITAL DATA
19)	14000.0000-14500.0000	H, V	36M0G7W	Tx	71.70	32.16	(6.1M) KU		QPSK, DIGITAL TELEPHONY
20)	14000.0000-14500.0000	H, V	1M60G1F	Tx	69.12	43.10	(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
21)	14000.0000-14500.0000	H, V	200KG1F	Tx	60.08	43.09	(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
22)	14000.0000-14500.0000	H, V	400KG1F	Tx	63.10	43.10	(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
23)	14000.0000-14500.0000	H, V	800KG1F	Tx	66.11	43.10	(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
24)	11700.0000-12200.0000	H, V	100KG7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
25)	11700.0000-12200.0000	H, V	20M0G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
26)	11700.0000-12200.0000	H, V	2M29G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
27)	11700.0000-12200.0000	H, V	32K0G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
28)	11700.0000-12200.0000	H, V	36M0F8W	Rx			(6.1M) KU		QPSK DIGITAL DATA
29)	11700.0000-12200.0000	H, V	36M0G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
30)	11700.0000-12200.0000	H, V	43K8G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
31)	11700.0000-12200.0000	H, V	45K0G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
32)	11700.0000-12200.0000	H, V	76K8G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA



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B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
33)	11700.0000-12200.0000	H, V	9K00G7W	Rx			(6.1M) KU		QPSK DIGITAL DATA
34)	11700.0000-12200.0000	H, V	36M0G7W	Rx			(6.1M) KU		QPSK, DIGITAL TELEPHONY
35)	11700.0000-12200.0000	H, V	1M60G1F	Rx			(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
36)	11700.0000-12200.0000	H, V	200KG1F	Rx			(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
37)	11700.0000-12200.0000	H, V	400KG1F	Rx			(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
38)	11700.0000-12200.0000	H, V	800KG1F	Rx			(6.1M) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
39)	14000.0000-14500.0000	H, V	36M0F8W	Tx	80.14	46.10	(8.1M.) KU		ANALOG VIDEO
40)	14000.0000-14500.0000	H, V	100KG7W	Tx	60.07	46.10	(8.1M.) KU		QPSK DIGITAL DATA
41)	14000.0000-14500.0000	H, V	20M0G7W	Tx	83.08	46.10	(8.1M.) KU		QPSK DIGITAL DATA
42)	14000.0000-14500.0000	H, V	2M29G7W	Tx	73.67	46.10	(8.1M.) KU		QPSK DIGITAL DATA
43)	14000.0000-14500.0000	H, V	32K0G7W	Tx	55.13	46.10	(8.1M.) KU		QPSK DIGITAL DATA
44)	14000.0000-14500.0000	H, V	36M0G7W	Tx	77.23	46.10	(8.1M.) KU		QPSK DIGITAL DATA
45)	14000.0000-14500.0000	H, V	42M0G7W	Tx	86.31	46.10	(8.1M.) KU		QPSK DIGITAL DATA
46)	14000.0000-14500.0000	H, V	43K8G7W	Tx	56.49	46.10	(8.1M.) KU		QPSK DIGITAL DATA
47)	14000.0000-14500.0000	H, V	45K0G7W	Tx	56.61	46.10	(8.1M.) KU		QPSK DIGITAL DATA
48)	14000.0000-14500.0000	H, V	72M0G7W	Tx	88.55	46.10	(8.1M.) KU		QPSK DIGITAL DATA
49)	14000.0000-14500.0000	H, V	76K8G7W	Tx	58.93	46.10	(8.1M.) KU		QPSK DIGITAL DATA
50)	14000.0000-14500.0000	H, V	9K00G7W	Tx	49.62	46.10	(8.1M.) KU		QPSK DIGITAL DATA
51)	14000.0000-14500.0000	H, V	36M0G7W	Tx	72.00	46.10	(8.1M.) KU		QPSK, DIGITAL TELEPHONY
52)	14000.0000-14500.0000	H, V	1M60G1F	Tx	72.12	46.10	(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
53)	14000.0000-14500.0000	H, V	200KG1F	Tx	63.08	46.10	(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
54)	14000.0000-14500.0000	H, V	400KG1F	Tx	66.10	46.10	(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO



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55)	14000.0000-14500.0000	H, V	800KG1F	Tx	69.11	46.10	(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
56)	11700.0000-12200.0000	H, V	100KG7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
57)	11700.0000-12200.0000	H, V	20M0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
58)	11700.0000-12200.0000	H, V	2M29G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
59)	11700.0000-12200.0000	H, V	32K0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
60)	11700.0000-12200.0000	H, V	36M0F8W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
61)	11700.0000-12200.0000	H, V	36M0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
62)	11700.0000-12200.0000	H, V	42M0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
63)	11700.0000-12200.0000	H, V	43K8G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
64)	11700.0000-12200.0000	H, V	45K0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
65)	11700.0000-12200.0000	H, V	72M0G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
66)	11700.0000-12200.0000	H, V	76K8G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
67)	11700.0000-12200.0000	H, V	9K00G7W	Rx			(8.1M.) KU		QPSK DIGITAL DATA
68)	11700.0000-12200.0000	H, V	36M0G7W	Rx			(8.1M.) KU		QPSK, DIGITAL TELEPHONY
69)	11700.0000-12200.0000	H, V	1M60G1F	Rx			(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
70)	11700.0000-12200.0000	H, V	200KG1F	Rx			(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
71)	11700.0000-12200.0000	H, V	400KG1F	Rx			(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
72)	11700.0000-12200.0000	H, V	800KG1F	Rx			(8.1M.) KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
73)	1626.5000-1646.5000	R	600KFXN	Tx	16.00	16.00	1		Test signal, L-band pilot and test carrier transmission
74)	1626.5000-1646.5000	R	600HG1D	Tx	16.00	16.00	1		TDM channel, BPSK, STD-C, L-band pilot and test carrier transmission



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#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
75)	1530.0000-1545.0000	R	600HG1D	Rx			1		Test signal, Monitor & test of C-band transmit signals (communications & pilot)
76)	1530.0000-1545.0000	R	1K20G1D	Rx			1		TDM channel, BPSK, STD-C, Monitor & test of C-band transmit signals (communications & pilot)
77)	1530.0000-1545.0000	R	2K40G1D	Rx			1		TDM channel, BPSK, STD-C, Monitor & test of C-band transmit signals (communications & pilot)
78)	14000.0000-14500.0000	H,V	36M0F8W	Tx	80.14	46.10	SBY301KU		ANALOG VIDEO
79)	14000.0000-14500.0000	H,V	2M0G7W	Tx	83.08	46.10	SBY301KU		QPSK DIGITAL DATA
80)	14000.0000-14500.0000	H,V	6M0G7W	Tx	77.23	46.10	SBY301KU		QPSK DIGITAL DATA
81)	14000.0000-14500.0000	H,V	100KG7W	Tx	66.07	46.10	SBY301KU		QPSK DIGITAL DATA
82)	14000.0000-14500.0000	H,V	2M29G7W	Tx	73.67	46.10	SBY301KU		QPSK DIGITAL DATA
83)	14000.0000-14500.0000	H,V	32K0G7W	Tx	55.13	46.10	SBY301KU		QPSK DIGITAL DATA
84)	14000.0000-14500.0000	H,V	42M0G7W	Tx	86.31	46.10	SBY301KU		QPSK DIGITAL DATA
85)	14000.0000-14500.0000	H,V	43K8G7W	Tx	56.49	46.10	SBY301KU		QPSK DIGITAL DATA
86)	14000.0000-14500.0000	H,V	45K0G7W	Tx	56.61	46.10	SBY301KU		QPSK DIGITAL DATA
87)	14000.0000-14500.0000	H,V	72M0G7W	Tx	88.55	46.10	SBY301KU		QPSK DIGITAL DATA
88)	14000.0000-14500.0000	H,V	76K8G7W	Tx	58.93	46.10	SBY301KU		QPSK DIGITAL DATA
89)	14000.0000-14500.0000	H,V	9K00G7W	Tx	49.62	46.10	SBY301KU		QPSK DIGITAL DATA
90)	14000.0000-14500.0000	H,V	36M0G7W	Tx	72.00	46.10	SBY301KU		QPSK, DIGITAL TELEPHONY
91)	14000.0000-14500.0000	H,V	1M86G7W	Tx	68.60	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
92)	14000.0000-14500.0000	H,V	45M0G7W	Tx	86.60	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
93)	14000.0000-14500.0000	H,V	600KG7W	Tx	67.90	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA



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94)	14000.0000-14500.0000	H, V	64K0G7W	Tx	58.10	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
95)	14000.0000-14500.0000	H, V	1M60G1F	Tx	72.12	46.10	SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
96)	14000.0000-14500.0000	H, V	200KG1F	Tx	63.08	46.10	SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
97)	14000.0000-14500.0000	H, V	400KG1F	Tx	66.10	46.10	SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
98)	14000.0000-14500.0000	H, V	800KG1F	Tx	69.11	46.10	SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
99)	13780.0000-14500.0000	H, V	10M0G7W	Tx	80.10	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
100)	13780.0000-14500.0000	H, V	64K0G7W	Tx	58.10	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
101)	13778.0000-14000.0000	H, V	1M86G7W	Tx	68.80	42.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
102)	13778.0000-14000.0000	H, V	45M0G7W	Tx	86.60	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
103)	13778.0000-14000.0000	H, V	600KG7W	Tx	67.90	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
104)	13750.0000-14000.0000	H, V	36M0G7W	Tx	74.50	35.00	SBY301KU		QPSK, DIGITAL TELEPHONY
105)	13750.0000-13772.0000	H, V	1M86G7W	Tx	68.80	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
106)	13750.0000-13772.0000	H, V	21M0G7W	Tx	83.30	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
107)	13750.0000-13772.0000	H, V	600KG7W	Tx	67.90	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
108)	13750.0000-13770.0000	H, V	10M0G7W	Tx	80.10	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
109)	13750.0000-13770.0000	H, V	64K0G7W	Tx	58.10	46.10	SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
110)	11700.0000-12200.0000	H, V	10M0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
111)	11700.0000-12200.0000	H, V	64K0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
112)	11450.0000-11700.0000	H, V	36M0F8W	Rx			SBY301KU		ANALOG VIDEO



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Grant date: 04/25/2016

Expiration Date: 10/04/2026

B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
113)	11450.0000-11700.0000	H, V	100KG7W	Rx			SBY301KU		QPSK DIGITAL DATA
114)	11450.0000-11700.0000	H, V	20M0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
115)	11450.0000-11700.0000	H, V	2M29G7W	Rx			SBY301KU		QPSK DIGITAL DATA
116)	11450.0000-11700.0000	H, V	32K0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
117)	11450.0000-11700.0000	H, V	36M0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
118)	11450.0000-11700.0000	H, V	42M0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
119)	11450.0000-11700.0000	H, V	43K8G7W	Rx			SBY301KU		QPSK DIGITAL DATA
120)	11450.0000-11700.0000	H, V	45K0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
121)	11450.0000-11700.0000	H, V	72M0G7W	Rx			SBY301KU		QPSK DIGITAL DATA
122)	11450.0000-11700.0000	H, V	76K8G7W	Rx			SBY301KU		QPSK DIGITAL DATA
123)	11450.0000-11700.0000	H, V	9K00G7W	Rx			SBY301KU		QPSK DIGITAL DATA
124)	11450.0000-11700.0000	H, V	36M0G7W	Rx			SBY301KU		QPSK, DIGITAL TELEPHONY
125)	11450.0000-11700.0000	H, V	10M0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
126)	11450.0000-11700.0000	H, V	417KG7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
127)	11450.0000-11700.0000	H, V	64K0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
128)	11450.0000-11700.0000	H, V	64K0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
129)	11450.0000-11700.0000	H, V	7M50G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
130)	11450.0000-11700.0000	H, V	1M60G1F	Rx			SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
131)	11450.0000-11700.0000	H, V	200KG1F	Rx			SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
132)	11450.0000-11700.0000	H, V	400KG1F	Rx			SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO
133)	11450.0000-11700.0000	H, V	800KG1F	Rx			SBY301KU		PSK DIGITAL VIDEO W/ASSOC DIG AUDIO



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Call Sign: KA304

Authorization Type: Modification of License

File Number: SES-MOD-20151009-00703

Common Carrier

Grant date: 04/25/2016

Expiration Date: 10/04/2026

B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
134)	10950.0000-11200.0000	H, V	417KG7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
135)	10950.0000-11200.0000	H, V	64K0G7W	Rx			SBY301KU		DIGITAL VIDEO, AUDIO, AND DATA
136)	10700.0000-12750.0000	H, V	36M0G7W	Rx			SBY301KU		QPSK, DIGITAL TELEPHONY
137)	14000.0000-14500.0000	H, V	36M0F8W	Tx	80.10	53.10	SBY332KU		ANALOG VIDEO
138)	14000.0000-14500.0000	H, V	72M0G7W	Rx	88.70	46.10	SBY332KU		DIGITAL VIDEO, AUDIO, AND DATA
139)	14000.0000-14500.0000	H, V	9K00G7W	Tx	49.60	46.00	SBY332KU		DIGITAL VIDEO, AUDIO, AND DATA
140)	14000.0000-14500.0000	H, V	1M60G1F	Tx	72.10	46.10	SBY332KU		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
141)	14000.0000-14500.0000	H, V	200KG1F	Tx	63.10	46.10	SBY332KU		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
142)	11700.0000-12200.0000	H, V	36M0F8W	Rx			SBY332KU		ANALOG VIDEO
143)	11700.0000-12200.0000	H, V	72M0G7W	Rx			SBY332KU		DIGITAL VIDEO, AUDIO, AND DATA
144)	11700.0000-12200.0000	H, V	9K00G7W	Rx			SBY332KU		DIGITAL VIDEO, AUDIO, AND DATA
145)	11700.0000-12200.0000	H, V	1M60G1F	Rx			SBY332KU		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
146)	11700.0000-12200.0000	H, V	200KG1F	Rx			SBY332KU		PSK DIGITAL VIDEO AND ASSOCIATED DIGITAL AUDIO
147)	14000.0000-14500.0000	H, V	54M0D1W	Tx	81.00	39.70	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
148)	14000.0000-14500.0000	H, V	54M0D7W	Tx	81.00	39.70	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
149)	14000.0000-14500.0000	H, V	64K0G7W	Tx	40.00	27.90	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
150)	14000.0000-14000.0000	H, V	1M50G7W	Tx	53.00	27.30	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.

The General Provision 1900 applies to all transmitting frequency bands.

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
151)	14000.0000-14000.0000	H, V	32K0G1W	Tx	50.10	41.00	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
152)	14000.0000-14000.0000	H, V	32K0G7W	Tx	50.10	41.00	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
153)	14000.0000-14000.0000	H, V	36M0G1W	Tx	80.60	41.00	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
154)	14000.0000-14000.0000	H, V	36M0G7W	Tx	80.60	41.00	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
155)	14000.0000-14000.0000	H, V	45M0G7W	Tx	81.00	40.50	SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
156)	11700.0000-12200.0000	H, V	1M00G7W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
157)	11700.0000-12200.0000	H, V	32K0G1W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
158)	11700.0000-12200.0000	H, V	32K0G7W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
159)	11700.0000-12200.0000	H, V	36M0G1W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
160)	11700.0000-12200.0000	H, V	36M0G7W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
161)	11700.0000-12200.0000	H, V	45M0G7W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
162)	11700.0000-12200.0000	H, V	54M0D1W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS
163)	11700.0000-12200.0000	H, V	54M0D7W	Rx			SBY343KU		DIGITAL TRAFFIC USING PHASE AND AMPLITUDE MODULATIONS



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B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
164)	11700.0000-12200.0000	H,V	64K0G7W	Rx			SBY343KU		DIGITAL PHASE MODULATIONS TRAFFIC AND USING AMPLITUDE

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	1626.5000-1646.5000	3.0W	-112.0W					16	1
2)	1530.0000-1545.0000	3.0W	-112.0W					0	1
3)	14000.0000-14500.0000	3.0W	-112.0W	06.0	-27.0	103.3	-230.0	9.03	(8.1M.) KU
4)	11700.0000-12200.0000	3.0W	-112.0W	06.0	-27.0	103.3	-230.0		(8.1M.) KU
5)	14000.0000-14500.0000	3.0W	-125.0W	25.0	-20.0	125.0	-245.0	9.03	(6.1M) KU
6)	11700.0000-12200.0000	3.0W	-125.0W	25.0	-25.0	125.0	-245.0		(6.1M) KU
7)	14000.0000-14500.0000	3.0W	-112.0W	06.0	-28.1	103.3	-230.4	2.64	(1.2M) KU
8)	11700.0000-12200.0000	3.0W	-112.0W	06.0	-28.1	103.3	-230.4		(1.2M) KU
9)	14000.0000-14500.0000	3.0W	-143.0W	06.0	-06.4	103.3	-256.2	10.6	SBY332KU
10)	11700.0000-12200.0000	3.0W	-143.0W	06.0	-06.4	103.3	-256.2		SBY332KU
11)	14000.0000-14500.0000	3.0W	-143.0W	06.0	-06.4	103.3	-256.2	-4.4	SBY343KU
12)	11700.0000-12200.0000	3.0W	-143.0W	06.0	-06.4	103.3	-256.2		SBY343KU
13)	14000.0000-14500.0000	3.0W	-102.0W	06.0	-33.9	103.3	-219.6	3.62	SBY301KU
14)	13780.0000-14500.0000	63.0W	-63.0W	41.0	-41.0	164.7	-164.7	-19.7	SBY301KU
15)	13778.0000-14000.0000	37.0W	-38.0W	29.6	-30.2	132.0	-133.1	-13	SBY301KU
16)	13750.0000-14000.0000	3.0W	-102.0W	06.0	-33.9	103.3	-219.6	9.03	SBY301KU
17)	13750.0000-13772.0000	37.0W	-38.0W	29.6	-30.2	132.0	-133.1	-13	SBY301KU
18)	13750.0000-13770.0000	63.0W	-63.0W	41.0	-41.0	164.7	-164.7	-19.7	SBY301KU
19)	11700.0000-12200.0000	63.0W	-63.0W	41.0	-41.0	164.7	-164.7		SBY301KU
20)	11450.0000-11700.0000	63.0W	-63.0W	41.0	-41.0	164.7	-164.7		SBY301KU
21)	10950.0000-11200.0000	3.0W	-102.0W	06.0	-33.9	103.3	-219.6		SBY301KU
22)	10700.0000-12750.0000	3.0W	-102.0W	06.0	-33.9	103.3	-219.6		SBY301KU
23)	11450.0000-11700.0000	3.0W	-102.0W	06.0	-33.9	103.3	-219.6		SBY301KU



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
24)	14000.0000-14500.0000	3.0W	102.0W	06.0	33.9	103.3	219.6	9.03	SBY301KU

D) Points of Communications

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

- 1) 1 to INMARSAT Ltd.-3 satellite(s) @ 15.5 W.L. in AOR-E (United Kingdom-licensed) (Non-U.S.-licensed)
- 2) 1 to INMARSAT Ltd.-2 satellite(s) @ 17 W.L. in AOR-EAST (United Kingdom-licensed) (Non-U.S.-licensed)
- 3) 1 to INMARSAT Ltd.-2 satellite(s) @ 98 W.L. in AOR-WEST (United Kingdom-licensed) (Non-U.S.-licensed)
- 4) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band
- 5) HUB(8.1M)KU to Permitted Space Station List
- 6) HUB(6.1M)KU to Permitted Space Station List
- 7) HUB(1.2M)KU to Permitted Space Station List
- 8) SBY332KU to Permitted Space Station List
- 9) SBY343KU to Permitted Space Station List
- 10) SBY301KU to Estrela do Sul 2 (S2821) @ 63 degrees W.L. (Brazil-licensed)
- 11) SBY301KU to AMAZONAS 2 (S2793) @ 61 degrees W.L. (Brazil-licensed)
- 12) SBY301KU to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
- 13) SBY301KU to Permitted Space Station List

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
HUB (1.2M) KU	(1.2M) KU	2	1.2	PRODELIN	1123	36.6	2 AGL/ 38.6 AMSL	
Max Gains(s):		43.3 dBi @	14.2500 GHz	41.7 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =					1,000.00			
Maximum aggregate output EIRP for all carriers (dBW) =					63.30			



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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
HUB (6.1M) KU	(6.1M) KU	1	6.1	VERTEX	KPK	36.6	6.23 AGL/ 46.83 AMSL	
Max Gains(s):		57.1 dBi @	14.2500 GHz	55.7 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						400.00		
Maximum aggregate output EIRP for all carriers (dBW) =						83.10		
HUB (8.1M) KU	(8.1M.) KU	1	8.1	VERTEX	KPK	36.6	8.23 AGL/ 44.83 AMSL	
Max Gains(s):		59.8 dBi @	14.2500 GHz					
Maximum total input power at antenna flange (Watts) =						700.00		
Maximum aggregate output EIRP for all carriers (dBW) =						88.20		
1	1	1	0.03	THRANE AND THRANE, INMARSAT-C	TT-3001A CAPSAT 224.7		0 AGL	
Max Gains(s):		2.0 dBi @	1.6000 GHz	2.0 dBi @	1.5000 GHz			
Maximum total input power at antenna flange (Watts) =						25.10		
Maximum aggregate output EIRP for all carriers (dBW) =						16.00		
SBY301KU	SBY301KU	1	9	VERTEX	9KPK	35.7	9.5 AGL/ 45.2 AMSL	
Max Gains(s):		60.1 dBi @	14.2500 GHz	58.6 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						700.00		
Maximum aggregate output EIRP for all carriers (dBW) =						88.55		
SBY332KU	SBY332KU	1	9	VERTEX	9KPK	35.7	9.5 AGL/ 45.2 AMSL	
Max Gains(s):		60.1 dBi @	14.2500 GHz	58.6 dBi @	11.9500 GHz			
Maximum total input power at antenna flange (Watts) =						750.00		
Maximum aggregate output EIRP for all carriers (dBW) =						88.90		
SBY343KU	SBY343KU	1	4.8	GENERAL DYNAMICS SATCOM	4.8M 037974-01	37.7	5 AGL/ 42.7 AMSL	
Max Gains(s):		55.0 dBi @	14.2500 GHz	53.2 dBi @	11.7250 GHz			
Maximum total input power at antenna flange (Watts) =						400.00		
Maximum aggregate output EIRP for all carriers (dBW) =						81.00		



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G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

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

1010 --- Applicable to all receiving frequency bands. Emission designator indicates the maximum bandwidth of received signal at associated station(s). Maximum EIRP and maximum EIRP density are not applicable to receive operations.

1900 --- Applicable to all transmitting frequency bands. Authority is granted to transmit any number of RF carriers with the specified parameters on any discrete frequencies within associated band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.

2325 --- Antennas and all antenna supporting structures used under this authorization shall not exceed 20 feet in height.

2627 --- All services are interconnected to the Public Switched Network.

2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.

3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).

3465 --- This authorization is subject to the policies adopted in the Report and Order, "Amendment of the Commission's Regulatory Policies to allow Non-US-Licensed Space Stations to provide Domestic and International Satellite Services in the United States," IB Docket 96-111, FCC 97-399 (Released November 26, 1997). (DISCO II)

3848 --- The authorized frequency band(s) has (have) been cleared with the National Telecommunications and Information Administration.

5011 --- The Licensee(s) shall maintain on file with the Commission a current list or plan of the precise frequencies in use at the station, specifying for each frequency the RF center frequency, polarization, emission designator, nominal EIRP (in dBW) and maximum EIRP density (in dBW/4kHz). This list or plan may be submitted either on a station-by-station basis or on a system-wide basis and shall be updated within seven (7) days of any changes in frequency usage at this station. The Licensee(s) need not notify the Commission of temporary usage of frequencies for periods of less than seven (7) days. However, the Licensee(s) shall maintain accurate station records of the times and particulars of such temporary frequency usage.

5012 --- The authority granted here is limited to the operation of the facilities described above and does not include any authority to install and operate channelizing equipment or any other authority under Section 214 of the Communications Act of 1934, as amended, to establish channels of communications.



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H) Special and General Provisions

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

- 5017 --- Operation of this station is governed by the terms, conditions and limitations in Part 25 of the Commission's Rules and Regulations and the following additional conditions: 1. This license shall not vest in the Licensee(s) any right to operate the station or any right in the use of the frequencies designated in the license beyond its term or in any other manner than authorized in the license; 2. Neither the license nor the right granted under it shall be assigned or otherwise transferred in violation of the Commissions or otherwise transferred in violation of the Communications Act of 1934, as amended, or the Commission's Rules and Regulations issued under it; and 3. This station is subject to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended.
- 5018 --- This license shall be forfeited automatically if this station is not ready for operation within the time specified unless, prior to the expiration date of this license, the Commission receives an Application for Additional Time to Construct a Radio Station (FCC Form 701) filed by the Licensee(s) showing good cause why the Licensee(s) could not complete construction on time.
- 5058 --- All operations shall be conducted on a common carrier basis and shall comply with the Commission's decisions in CC Docket No. 87-75 and General Docket 84-1234.
- 5062 --- the Licensee(s) shall maintain as its first priority the service of maritime commercial, safety and distress needs, and in particular uphold the safety and distress requirements of the Global Maritime Distress and Safety System.
- 5202 --- Use of this facility to provide international service on a common carrier basis will require appropriate authorization under Section 214 of the Communication Act of 1934, as amended.
- 5215 --- All operations shall be on a common carrier basis.
- 5630 --- International services shall be consistent with this emission designator, the underlying title III application(s) and the acquisition of any necessary Section 214 authority.
- 5779 --- Upon completion of construction each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that construction of the facility as authorized has been completed, and that the station is operational including the date of commencement of service, and will remain operational during the license period unless the license is submitted for cancellation.
- 5810 --- This antenna is an Omni-directional antenna with a beamwidth of 210 degrees. It is an INMARSAT-C antenna and has a size of 279mm H x 190 mm D.
- 5811 --- Bands used for commercial services between satellite and earth stations authorized to operate in the maritime mobile satellite frequency bands. Operations of this station in these bands are limited to testing, frequency translation error correction, and network coordination purposes.
- 5830 --- This authorization is subject to the conditions and terms set forth in the Commission's Memorandum Opinion, Order and Authorization, FCC 01-272, released October 9, 2001 (INMARSAT Ltd. Order).



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Expiration Date: 10/04/2026

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

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

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

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

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

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

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

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

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

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

