



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

Nature of Service: Earth Station Aboard Aircraft

Nature of Service: Fixed Satellite Service

Nature of Service: Vehicle Mounted Earth Station

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	BB30KUREMOTES	CONUS U.S. Territory (0.3m SkyTech VMES) US, Intl' airspace(0.45m SkyTech ESAA) Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				NA
2)	BB45KUREMOTES	CONUS U.S. Territory (0.3m SkyTech VMES) US, Intl' airspace(0.45m SkyTech ESAA) Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				NA
3)	HR129 REMOTES	0.29 METER (1000 UNITS) Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				NA
4)	HR6400 REMOTES	0.86 METER (1000 UNITS) Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.				NA
5)	RANTEC REMOTES	.46 METER, (1000 UNITS) Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA



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6) TECOM
 REMOTES

NA

.65 METER, (1000 UNITS)

Licensee certifies antenna(s) do not comply with Section 25.209. Please refer to Section E for special conditions placed upon antennas at this site.

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, 2017 (3 AM Eastern Standard Time) and ending October 4, 2032 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 14, 2021 (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	375KG7W	Tx	24.30	5.33	BB30KU		Digital Data Services
2)	14000.0000-14500.0000	H, V, L, R	7M05G7W	Tx	37.00	5.33	BB30KU		Digital Data Services
3)	14000.0000-14500.0000	H, V	375KG7W	Tx	34.10	15.20	BB30KU		Digital Data Services
4)	14000.0000-14250.0000	H, V, L, R	375KG7W	Tx	24.30	5.33	BB30KU		Digital Data Services
5)	14000.0000-14250.0000	H, V, L, R	7M05G7W	Tx	37.00	5.33	BB30KU		Digital Data Services
6)	12500.0000-12750.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
7)	12500.0000-12750.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
8)	12500.0000-12750.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
9)	12250.0000-12750.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
10)	12250.0000-12750.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
11)	12250.0000-12750.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services



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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
12)	12200.0000-12250.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
13)	12200.0000-12250.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
14)	12200.0000-12250.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
15)	11700.0000-12200.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
16)	11700.0000-12200.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
17)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
18)	11700.0000-11950.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
19)	11700.0000-11950.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
20)	11700.0000-11950.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
21)	11450.0000-11950.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
22)	11450.0000-11950.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
23)	11450.0000-11950.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
24)	11450.0000-11700.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
25)	11450.0000-11700.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
26)	11450.0000-11700.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
27)	10950.0000-11200.0000	H, V, L, R	18M0G7W	Rx			BB30KU		Digital Data Services
28)	10950.0000-11200.0000	H, V, L, R	1M20G7W	Rx			BB30KU		Digital Data Services
29)	10590.0000-11200.0000	H, V, L, R	54M0G7W	Rx			BB30KU		Digital Data Services
30)	14000.0000-14500.0000	H, V, L, R	375KG7W	Tx	29.90	10.93	BB45KU		Digital Data Services
31)	14000.0000-14500.0000	H, V, L, R	7M05G7W	Tx	42.60	10.93	BB45KU		Digital Data Services
32)	14000.0000-14250.0000	H, V, L, R	375KG7W	Tx	29.90	10.93	BB45KU		Digital Data Services
33)	14000.0000-14250.0000	H, V, L, R	7M05G7W	Tx	42.60	10.93	BB45KU		Digital Data Services
34)	12500.0000-12750.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
35)	12500.0000-12750.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services



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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
36)	12500.0000-12750.0000	H, V, L, R	54M0G7W	Rx		0.00	BB45KU		Digital Data Services
37)	12250.0000-12750.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
38)	12250.0000-12750.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
39)	12250.0000-12750.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
40)	12200.0000-12250.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
41)	12200.0000-12250.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
42)	12200.0000-12250.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
43)	11700.0000-12200.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
44)	11700.0000-12200.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
45)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
46)	11700.0000-11950.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
47)	11700.0000-11950.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
48)	11700.0000-11950.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
49)	11450.0000-11950.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
50)	11450.0000-11950.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
51)	11450.0000-11950.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
52)	11450.0000-11700.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
53)	11450.0000-11700.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
54)	11450.0000-11700.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
55)	10950.0000-11200.0000	H, V, L, R	18M0G7W	Rx			BB45KU		Digital Data Services
56)	10950.0000-11200.0000	H, V, L, R	1M20G7W	Rx			BB45KU		Digital Data Services
57)	10950.0000-11200.0000	H, V, L, R	54M0G7W	Rx			BB45KU		Digital Data Services
58)	14000.0000-14500.0000	H, V, L, R	375KG7W	Tx	27.40	8.50	HR129		Digital Data Services
59)	14000.0000-14500.0000	H, V, L, R	7M05G7W	Tx	40.20	8.50	HR129		Digital Data Services



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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
60)	14000.0000-14250.0000	H, V, L, R	375KG7W	Tx	27.40	8.50	HR129		Digital Data Services
61)	14000.0000-14250.0000	H, V, L, R	72M0G7W	Tx	40.20	8.50	HR129		Digital Data Services
62)	12500.0000-12750.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
63)	12500.0000-12750.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
64)	12500.0000-12750.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
65)	12250.0000-12750.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
66)	12250.0000-12750.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
67)	12250.0000-12750.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
68)	12200.0000-12250.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
69)	12200.0000-12250.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
70)	12200.0000-12250.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
71)	11700.0000-12200.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
72)	11700.0000-12200.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
73)	11700.0000-12200.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
74)	11700.0000-11950.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
75)	11700.0000-11950.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
76)	11700.0000-11950.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
77)	11450.0000-11950.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
78)	11450.0000-11950.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
79)	11450.0000-11950.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
80)	11450.0000-11700.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services
81)	11450.0000-11700.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
82)	11450.0000-11700.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
83)	10950.0000-11200.0000	H, V, L, R	18M0G7W	Rx			HR129		Digital Data Services



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The General Provision 1900 applies to all transmitting frequency bands.

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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
84)	10950.0000-11200.0000	H, V, L, R	1M20G7W	Rx			HR129		Digital Data Services
85)	10950.0000-11200.0000	H, V, L, R	54M0G7W	Rx			HR129		Digital Data Services
86)	14000.0000-14500.0000	H, V	2M59G7W	Tx	42.00	14.70	HR6400		Digital Data Services
87)	14000.0000-14500.0000	H, V	375KG7W	Tx	33.60	14.70	HR6400		Digital Data Services
88)	14000.0000-14250.0000	H, V	2M59G7W	Tx	42.00	14.70	HR6400		Digital Data Services
89)	14000.0000-14250.0000	H, V	375KG7W	Tx	33.60	14.70	HR6400		Digital Data Services
90)	12500.0000-12750.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
91)	12500.0000-12750.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
92)	12500.0000-12750.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
93)	12250.0000-12750.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
94)	12250.0000-12750.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
95)	12250.0000-12750.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
96)	12200.0000-12250.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
97)	12200.0000-12250.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
98)	12200.0000-12250.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
99)	11700.0000-12200.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
100)	11700.0000-12200.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
101)	11700.0000-12200.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
102)	11700.0000-11950.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
103)	11700.0000-11950.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
104)	11700.0000-11950.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
105)	11450.0000-11950.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
106)	11450.0000-11950.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
107)	11450.0000-11950.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services



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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
108)	11450.0000-11700.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
109)	11450.0000-11700.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
110)	11450.0000-11700.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
111)	10950.0000-11200.0000	H, V	18M0G7W	Rx			HR6400		Digital Data Services
112)	10950.0000-11200.0000	H, V	1M20G7W	Rx			HR6400		Digital Data Services
113)	10950.0000-11200.0000	H, V	54M0G7W	Rx			HR6400		Digital Data Services
114)	14000.0000-14500.0000	H, V	375KG7W	Tx	30.60	11.70	Rantec		Digital Data Services
115)	14000.0000-14500.0000	H, V	7M05G7W	Tx	43.40	11.70	Rantec		Digital Data Services
116)	14000.0000-14250.0000	H, V	375KG7W	Tx	30.60	11.70	Rantec		Digital Data Services
117)	14000.0000-14250.0000	H, V	7M05G7W	Tx	43.40	11.70	Rantec		Digital Data Services
118)	12500.0000-12750.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
119)	12500.0000-12750.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
120)	12500.0000-12750.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
121)	12250.0000-12750.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
122)	12250.0000-12750.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
123)	12250.0000-12750.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
124)	12200.0000-12250.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
125)	12200.0000-12250.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
126)	12200.0000-12250.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
127)	11700.0000-12200.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
128)	11700.0000-12200.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
129)	11700.0000-12200.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
130)	11700.0000-11950.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
131)	11700.0000-11950.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services



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132)	11700.0000-11950.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
133)	11450.0000-11950.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
134)	11450.0000-11950.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
135)	11450.0000-11950.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
136)	11450.0000-11700.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
137)	11450.0000-11700.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
138)	11450.0000-11700.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
139)	10950.0000-11200.0000	H, V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
140)	10950.0000-11200.0000	H, V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
141)	10950.0000-11200.0000	H, V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
142)	14000.0000-14500.0000	H, V	2M59G7W	Tx	42.50	15.20	TECOM		Digital Data Services
143)	14000.0000-14250.0000	H, V	2M59G7W	Tx	42.50	15.20	TECOM		Digital Data Services
144)	14000.0000-14250.0000	H, V	375KG7W	Tx	34.10	15.20	TECOM		Digital Data Services
145)	12500.0000-12750.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
146)	12500.0000-12750.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
147)	12500.0000-12750.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
148)	12250.0000-12750.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
149)	12250.0000-12750.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
150)	12250.0000-12750.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
151)	12200.0000-12250.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
152)	12200.0000-12250.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
153)	12200.0000-12250.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
154)	11700.0000-12200.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
155)	11700.0000-12200.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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
156)	11700.0000-12200.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
157)	11700.0000-11950.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
158)	11700.0000-11950.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
159)	11700.0000-11950.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
160)	11450.0000-11950.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
161)	11450.0000-11950.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
162)	11450.0000-11950.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
163)	11450.0000-11700.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
164)	11450.0000-11700.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
165)	11450.0000-11700.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
166)	10950.0000-11200.0000	H, V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
167)	10950.0000-11200.0000	H, V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
168)	10950.0000-11200.0000	H, V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	14000.0000-14500.0000	127.0W	127.0W	05.0	05.0	000.0	360.0	-11	TECOM
2)	11700.0000-12200.0000	50.0W	50.0W	05.0	05.0	000.0	360.0		TECOM
3)	14000.0000-14250.0000	55.5W	55.5W	05.0	05.0	000.0	360.0	-7	TECOM
4)	11700.0000-12200.0000	127.0W	127.0W	05.0	05.0	000.0	360.0		TECOM
5)	14000.0000-14500.0000	166.0E	166.0E	05.0	05.0	000.0	360.0	-6	TECOM
6)	12250.0000-12750.0000	166.0E	166.0E	05.0	05.0	000.0	360.0		TECOM
7)	14000.0000-14500.0000	50.0W	50.0W	05.0	05.0	000.0	360.0	-6	TECOM
8)	10950.0000-11200.0000	50.0W	50.0W	05.0	05.0	000.0	360.0		TECOM



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
9)	11450.0000-11700.0000	50.0W	50.0W	05.0	05.0	000.0	360.0		TECOM
10)	10950.0000-11200.0000	60.0E	60.0E	05.0	05.0	000.0	360.0		TECOM
11)	11450.0000-11700.0000	60.0E	60.0E	05.0	05.0	000.0	360.0		TECOM
12)	11450.0000-11700.0000	55.5W	55.5W	05.0	05.0	000.0	360.0		TECOM
13)	14000.0000-14500.0000	45.0W	45.0W	05.0	05.0	000.0	360.0	-11	TECOM
14)	11450.0000-11950.0000	45.0W	45.0W	05.0	05.0	000.0	360.0		TECOM
15)	14000.0000-14250.0000	58.0W	58.0W	05.0	05.0	000.0	360.0	-7.5	TECOM
16)	11450.0000-11700.0000	58.0W	58.0W	05.0	05.0	000.0	360.0		TECOM
17)	14000.0000-14500.0000	60.0E	60.0E	05.0	05.0	000.0	360.0	-6	TECOM
18)	11450.0000-11700.0000	72.1E	72.1E	05.0	05.0	000.0	360.0		TECOM
19)	12250.0000-12750.0000	72.1E	72.1E	05.0	05.0	000.0	360.0		TECOM
20)	11700.0000-12200.0000	60.0E	60.0E	05.0	05.0	000.0	360.0		TECOM
21)	14000.0000-14500.0000	66.0E	66.0E	05.0	05.0	000.0	360.0	-3	TECOM
22)	10950.0000-11200.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		TECOM
23)	11450.0000-11700.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		TECOM
24)	12500.0000-12750.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		TECOM
25)	14000.0000-14500.0000	72.1E	72.1E	05.0	05.0	000.0	360.0	-7	TECOM
26)	10950.0000-11200.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		TECOM
27)	11450.0000-11700.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		TECOM
28)	14000.0000-14500.0000	43.1W	43.1W	05.0	05.0	000.0	360.0	-6	TECOM
29)	11700.0000-12200.0000	43.1W	43.1W	05.0	05.0	000.0	360.0		TECOM
30)	14000.0000-14500.0000	34.5W	34.5W	05.0	05.0	000.0	360.0	-6	TECOM
31)	11450.0000-11700.0000	34.5W	34.5W	05.0	05.0	000.0	360.0		TECOM
32)	10950.0000-11200.0000	34.5W	34.5W	05.0	05.0	000.0	360.0		TECOM
33)	14000.0000-14500.0000	169.0E	169.0E	05.0	05.0	000.0	360.0	-3	TECOM
34)	14000.0000-14500.0000	68.5E	68.5E	05.0	05.0	000.0	360.0	-7	TECOM
35)	10950.0000-11200.0000	68.5E	68.5E	05.0	05.0	000.0	360.0		TECOM
36)	12200.0000-12250.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		TECOM
37)	12250.0000-12750.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		TECOM
38)	14000.0000-14500.0000	180.0E	180.0E	05.0	05.0	000.0	360.0	-7	TECOM
39)	10950.0000-11200.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		TECOM
40)	11450.0000-11700.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		TECOM
41)	12250.0000-12750.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		TECOM
42)	11700.0000-12200.0000	97.0W	97.0W	05.0	05.0	000.0	360.0		TECOM
43)	11450.0000-11700.0000	68.5E	68.5E	05.0	05.0	000.0	360.0		TECOM



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
44)	12500.0000-12750.0000	68.5E	-68.5E	05.0	-05.0	000.0	-360.0		TECOM
45)	14000.0000-14500.0000	53.0W	-53.0W	05.0	-05.0	000.0	-360.0	-7	TECOM
46)	11450.0000-11700.0000	53.0W	-53.0W	05.0	-05.0	000.0	-360.0		TECOM
47)	11700.0000-12200.0000	53.0W	-53.0W	05.0	-05.0	000.0	-360.0		TECOM
48)	14000.0000-14500.0000	97.0W	-97.0W	05.0	-05.0	000.0	-360.0	-11	TECOM
49)	11700.0000-11950.0000	18.0W	-18.0W	05.0	-05.0	000.0	-360.0		TECOM
50)	12500.0000-12750.0000	18.0W	-18.0W	05.0	-05.0	000.0	-360.0		TECOM
51)	10950.0000-11200.0000	18.0W	-18.0W	05.0	-05.0	000.0	-360.0		TECOM
52)	11450.0000-11700.0000	18.0W	-18.0W	05.0	-05.0	000.0	-360.0		TECOM
53)	10950.0000-11200.0000	8.0W	-212.0W	05.0	-05.0	000.0	-360.0		TECOM
54)	11450.0000-11700.0000	8.0W	-212.0W	05.0	-05.0	000.0	-360.0		TECOM
55)	14000.0000-14500.0000	18.0W	-18.0W	05.0	-05.0	000.0	-360.0	-5.3	TECOM
56)	11700.0000-12200.0000	8.0W	-212.0W	05.0	-05.0	000.0	-360.0		TECOM
57)	14000.0000-14500.0000	8.0W	-212.0W	05.0	-05.0	000.0	-360.0	-3	TECOM
58)	14000.0000-14500.0000	127.0W	-127.0W	05.0	-05.0	000.0	-360.0	-3.1	Rantec
59)	11700.0000-12200.0000	50.0W	-50.0W	05.0	-05.0	000.0	-360.0		Rantec
60)	14000.0000-14250.0000	55.5W	-55.5W	05.0	-05.0	000.0	-360.0	0.9	Rantec
61)	11700.0000-12200.0000	127.0W	-127.0W	05.0	-05.0	000.0	-360.0		Rantec
62)	14000.0000-14500.0000	166.0E	-166.0E	05.0	-05.0	000.0	-360.0	1.9	Rantec
63)	12250.0000-12750.0000	166.0E	-166.0E	05.0	-05.0	000.0	-360.0		Rantec
64)	14000.0000-14500.0000	50.0W	-50.0W	05.0	-05.0	000.0	-360.0	-3.1	Rantec
65)	10950.0000-11200.0000	50.0W	-50.0W	05.0	-05.0	000.0	-360.0		Rantec
66)	11450.0000-11700.0000	50.0W	-50.0W	05.0	-05.0	000.0	-360.0		Rantec
67)	10950.0000-11200.0000	60.0E	-60.0E	05.0	-05.0	000.0	-360.0		Rantec
68)	11450.0000-11700.0000	60.0E	-60.0E	05.0	-05.0	000.0	-360.0		Rantec
69)	11450.0000-11700.0000	55.5W	-55.5W	05.0	-05.0	000.0	-360.0		Rantec
70)	14000.0000-14500.0000	45.0W	-45.0W	05.0	-05.0	000.0	-360.0	-3.1	Rantec
71)	11450.0000-11950.0000	45.0W	-45.0W	05.0	-05.0	000.0	-360.0		Rantec
72)	14000.0000-14250.0000	58.0W	-58.0W	05.0	-05.0	000.0	-360.0	0.4	Rantec
73)	11450.0000-11700.0000	58.0W	-58.0W	05.0	-05.0	000.0	-360.0		Rantec
74)	14000.0000-14500.0000	60.0E	-60.0E	05.0	-05.0	000.0	-360.0	1.9	Rantec
75)	11450.0000-11700.0000	72.1E	-72.1E	05.0	-05.0	000.0	-360.0		Rantec
76)	12250.0000-12750.0000	72.1E	-72.1E	05.0	-05.0	000.0	-360.0		Rantec
77)	11700.0000-12200.0000	60.0E	-60.0E	05.0	-05.0	000.0	-360.0		Rantec
78)	14000.0000-14500.0000	66.0E	-66.0E	05.0	-05.0	000.0	-360.0	4.9	Rantec



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
79)	10950.0000-11200.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		Rantec
80)	11450.0000-11700.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		Rantec
81)	12500.0000-12750.0000	66.0E	66.0E	05.0	05.0	000.0	360.0		Rantec
82)	14000.0000-14500.0000	72.1E	72.1E	05.0	05.0	000.0	360.0	0.9	Rantec
83)	10950.0000-11200.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		Rantec
84)	11450.0000-11700.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		Rantec
85)	14000.0000-14500.0000	43.1W	43.1W	05.0	05.0	000.0	360.0	1.9	Rantec
86)	11700.0000-12200.0000	43.1W	43.1W	05.0	05.0	000.0	360.0		Rantec
87)	14000.0000-14500.0000	34.5W	34.5W	05.0	05.0	000.0	360.0	1.9	Rantec
88)	10950.0000-11200.0000	34.5W	34.5W	05.0	05.0	000.0	360.0		Rantec
89)	11450.0000-11700.0000	34.5W	34.5W	05.0	05.0	000.0	360.0		Rantec
90)	14000.0000-14500.0000	169.0E	169.0E	05.0	05.0	000.0	360.0	4.9	Rantec
91)	14000.0000-14500.0000	68.5E	68.5E	05.0	05.0	000.0	360.0	0.9	Rantec
92)	10950.0000-11200.0000	68.5E	68.5E	05.0	05.0	000.0	360.0		Rantec
93)	12200.0000-12250.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		Rantec
94)	12250.0000-12750.0000	169.0E	169.0E	05.0	05.0	000.0	360.0		Rantec
95)	14000.0000-14500.0000	180.0E	180.0E	05.0	05.0	000.0	360.0	0.9	Rantec
96)	10950.0000-11200.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		Rantec
97)	11450.0000-11700.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		Rantec
98)	12250.0000-12750.0000	180.0E	180.0E	05.0	05.0	000.0	360.0		Rantec
99)	11700.0000-12200.0000	97.0W	97.0W	05.0	05.0	000.0	360.0		Rantec
100)	11450.0000-11700.0000	68.5E	68.5E	05.0	05.0	000.0	360.0		Rantec
101)	12500.0000-12750.0000	68.5E	68.5E	05.0	05.0	000.0	360.0		Rantec
102)	14000.0000-14500.0000	53.0W	53.0W	00.0	05.0	000.0	360.0	0.9	Rantec
103)	11450.0000-11700.0000	53.0W	53.0W	05.0	05.0	000.0	360.0		Rantec
104)	11700.0000-12200.0000	53.0W	53.0W	05.0	05.0	000.0	360.0		Rantec
105)	14000.0000-14500.0000	97.0W	97.0W	05.0	05.0	000.0	360.0	-3.1	Rantec
106)	10950.0000-11200.0000	18.0W	18.0W	05.0	05.0	000.0	360.0		Rantec
107)	11450.0000-11700.0000	18.0W	18.0W	05.0	05.0	000.0	360.0		Rantec
108)	11700.0000-11950.0000	18.0W	18.0W	05.0	05.0	000.0	360.0		Rantec
109)	12500.0000-12750.0000	18.0W	18.0W	05.0	05.0	000.0	360.0		Rantec
110)	14000.0000-14500.0000	18.0W	18.0W	05.0	05.0	000.0	360.0	2.6	Rantec
111)	11700.0000-12200.0000	8.0W	212.0W	05.0	05.0	000.0	360.0		Rantec
112)	10950.0000-11200.0000	8.0W	212.0W	05.0	05.0	000.0	360.0		Rantec
113)	11450.0000-11700.0000	8.0W	212.0W	05.0	05.0	000.0	360.0		Rantec



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
114)	14000.0000-14500.0000	8.0W	-212.0W	05.0	-05.0	000.0	-360.0	4.9	Rantec
115)	14000.0000-14500.0000	8.0W	-212.0W	05.0	-05.0	-360.0		-19.1	HR129
116)	14000.0000-14500.0000	18.0W	-18.0W	05.0	-05.0	-360.0		-13.4	HR129
117)	14000.0000-14500.0000	34.5W	-34.5W	05.0	-05.0	-360.0		-14.1	HR129
118)	14000.0000-14500.0000	43.1W	-43.1W	05.0	-05.0	-360.0		-14.1	HR129
119)	14000.0000-14500.0000	45.0W	-45.0W	05.0	-05.0	-360.0		-19.1	HR129
120)	14000.0000-14500.0000	50.0W	-50.0W	05.0	-05.0	-360.0		-19.1	HR129
121)	14000.0000-14500.0000	53.0W	-53.0W	05.0	-05.0	-360.0		-15.1	HR129
122)	14000.0000-14500.0000	60.0E	-60.0E	05.0	-05.0	-360.0		-14.1	HR129
123)	14000.0000-14500.0000	66.0E	-66.0E	05.0	-05.0	-360.0		-11.1	HR129
124)	10950.0000-11200.0000	60.0E	-60.0E	05.0	-05.0	-360.0			HR129
125)	10950.0000-11200.0000	66.0E	-66.0E	05.0	-05.0	-360.0			HR129
126)	10950.0000-11200.0000	68.5E	-68.5E	05.0	-05.0	-360.0			HR129
127)	10950.0000-11200.0000	169.0E	-169.0E	05.0	-05.0	-360.0			HR129
128)	10950.0000-11200.0000	180.0E	-180.0E	05.0	-05.0	-360.0			HR129
129)	11450.0000-11700.0000	8.0W	-212.0W	05.0	-05.0	-360.0			HR129
130)	11450.0000-11700.0000	18.0W	-18.0W	05.0	-05.0	-360.0			HR129
131)	11450.0000-11700.0000	34.5W	-34.5W	05.0	-05.0	-360.0			HR129
132)	11450.0000-11700.0000	50.0W	-50.0W	05.0	-05.0	-360.0			HR129
133)	11450.0000-11700.0000	53.0W	-53.0W	05.0	-05.0	-360.0			HR129
134)	11450.0000-11950.0000	45.0W	-45.0W	05.0	-05.0	-360.0			HR129
135)	11700.0000-11950.0000	18.0W	-18.0W	05.0	-05.0	-360.0			HR129
136)	11700.0000-12200.0000	8.0W	-212.0W	05.0	-05.0	-360.0			HR129
137)	11700.0000-12200.0000	43.1W	-43.1W	05.0	-05.0	-360.0			HR129
138)	11700.0000-12200.0000	50.0W	-50.0W	05.0	-05.0	-360.0			HR129
139)	11700.0000-12200.0000	53.0W	-53.0W	05.0	-05.0	-360.0			HR129
140)	11700.0000-12200.0000	60.0E	-60.0E	05.0	-05.0	-360.0			HR129
141)	11700.0000-12200.0000	97.0W	-97.0W	05.0	-05.0	-360.0			HR129
142)	11700.0000-12200.0000	127.0W	-127.0W	05.0	-05.0	-360.0			HR129
143)	12200.0000-12250.0000	169.0E	-169.0E	05.0	-05.0	-360.0			HR129
144)	12250.0000-12750.0000	72.1E	-72.1E	05.0	-05.0	-360.0			HR129
145)	12250.0000-12750.0000	166.0E	-166.0E	05.0	-05.0	-360.0			HR129
146)	12250.0000-12750.0000	169.0E	-169.0E	05.0	-05.0	-360.0			HR129
147)	12250.0000-12750.0000	180.0E	-180.0E	05.0	-05.0	-360.0			HR129
148)	12500.0000-12750.0000	18.0W	-212.0W	05.0	-05.0	-360.0			HR129



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
149)	12500.0000-12750.0000	66.0E	-66.0E	05.0	-05.0	-360.0			HR129
150)	12500.0000-12750.0000	68.5E	-68.5E	05.0	-05.0	-360.0			HR129
151)	14000.0000-14250.0000	55.5W	-55.5W	05.0	-05.0	-360.0	-15.1		HR129
152)	14000.0000-14250.0000	58.0W	-58.0W	05.0	-05.0	-360.0	-15.6		HR129
153)	14000.0000-14500.0000	180.0E	-180.0E	05.0	-05.0	-360.0	-15.1		HR129
154)	14000.0000-14500.0000	68.5E	-68.5E	05.0	-05.0	-360.0	-15.1		HR129
155)	14000.0000-14500.0000	72.1E	-72.1E	05.0	-05.0	-360.0	-15.1		HR129
156)	14000.0000-14500.0000	97.0W	-97.0W	05.0	-05.0	-360.0	-19.1		HR129
157)	14000.0000-14500.0000	127.0W	-127.0W	05.0	-05.0	-360.0	-19.1		HR129
158)	14000.0000-14500.0000	166.0E	-166.0E	05.0	-05.0	-360.0	-14.1		HR129
159)	14000.0000-14500.0000	169.0E	-169.0E	05.0	-05.0	-360.0	-11.1		HR129
160)	10950.0000-11200.0000	8.0W	-212.0W	05.0	-05.0	-360.0			HR129
161)	10950.0000-11200.0000	18.0W	-18.0W	05.0	-05.0	-360.0			HR129
162)	10950.0000-11200.0000	34.5W	-34.5W	05.0	-05.0	-360.0			HR129
163)	10950.0000-11200.0000	50.0W	-50.0W	05.0	-05.0	-360.0			HR129
164)	11450.0000-11700.0000	55.5W	-55.5W	05.0	-05.0	-360.0			HR129
165)	11450.0000-11700.0000	58.0W	-58.0W	05.0	-05.0	-360.0			HR129
166)	11450.0000-11700.0000	60.0E	-60.0E	05.0	-05.0	-360.0			HR129
167)	11450.0000-11700.0000	66.0E	-66.0E	05.0	-05.0	-360.0			HR129
168)	11450.0000-11700.0000	68.5E	-68.5E	05.0	-05.0	-360.0			HR129
169)	11450.0000-11700.0000	72.1E	-72.1E	05.0	-05.0	-360.0			HR129
170)	11450.0000-11700.0000	169.0E	-169.0E	05.0	-05.0	-360.0			HR129
171)	11450.0000-11700.0000	180.0E	-180.0E	05.0	-05.0	-360.0			HR129
172)	14000.0000-14500.0000	8.0W	-212.0W	05.0	-05.0	-360.0	-2.3		HR6400
173)	14000.0000-14500.0000	18.0W	-18.0W	05.0	-05.0	-360.0	-4.6		HR6400
174)	14000.0000-14500.0000	34.5E	-34.5E	05.0	-05.0	-360.0	-5.3		HR6400
175)	14000.0000-14500.0000	43.1W	-43.1W	05.0	-05.0	-360.0	-5.3		HR6400
176)	14000.0000-14500.0000	45.0W	-45.0W	05.0	-05.0	-360.0	-10.3		HR6400
177)	14000.0000-14500.0000	50.0W	-50.0W	05.0	-05.0	-360.0	-10.3		HR6400
178)	14000.0000-14500.0000	53.0W	-53.0W	05.0	-05.0	-360.0	-6.3		HR6400
179)	14000.0000-14500.0000	60.0E	-60.0E	05.0	-05.0	-360.0	-5.3		HR6400
180)	14000.0000-14500.0000	66.0E	-66.0E	05.0	-05.0	-360.0	-2.3		HR6400
181)	11450.0000-11950.0000	45.0W	-45.0W	05.0	-05.0	-360.0	0		HR6400
182)	11700.0000-11950.0000	18.0W	-18.0W	05.0	-05.0	-360.0	0		HR6400
183)	11700.0000-12200.0000	8.0W	-212.0W	05.0	-05.0	-360.0	0		HR6400



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
184)	11700.0000-12200.0000	43.1W	43.1W	05.0	05.0	-360.0		0	HR6400
185)	11700.0000-12200.0000	50.0W	50.0W	05.0	05.0	-360.0		0	HR6400
186)	11700.0000-12200.0000	53.0W	53.0W	05.0	05.0	-360.0		0	HR6400
187)	11700.0000-12200.0000	60.0E	60.0E	05.0	05.0	-360.0		0	HR6400
188)	11700.0000-12200.0000	97.0W	97.0W	05.0	05.0	-360.0		0	HR6400
189)	11700.0000-12200.0000	127.0W	127.0W	05.0	05.0	-360.0		0	HR6400
190)	12200.0000-12750.0000	169.0E	169.0E	05.0	05.0	-360.0		0	HR6400
191)	12250.0000-12750.0000	72.1E	72.1E	05.0	05.0	-360.0		0	HR6400
192)	12250.0000-12750.0000	166.0E	166.0E	05.0	05.0	-360.0		0	HR6400
193)	12250.0000-12750.0000	169.0E	169.0E	05.0	05.0	-360.0		0	HR6400
194)	12500.0000-12750.0000	18.0W	18.0W	05.0	05.0	-360.0		0	HR6400
195)	12500.0000-12750.0000	66.0E	66.0E	05.0	05.0	-360.0		0	HR6400
196)	12500.0000-12750.0000	68.5E	68.5E	05.0	05.0	-360.0		0	HR6400
197)	12500.0000-12750.0000	180.0E	180.0E	05.0	05.0	-360.0		0	HR6400
198)	10950.0000-11200.0000	60.0E	60.0E	05.0	05.0	-360.0			HR6400
199)	10950.0000-11200.0000	66.0E	66.0E	05.0	05.0	-360.0			HR6400
200)	10950.0000-11200.0000	68.5E	68.5E	05.0	05.0	-360.0			HR6400
201)	10950.0000-11200.0000	169.0E	169.0E	05.0	05.0	-360.0			HR6400
202)	10950.0000-11200.0000	180.0E	180.0E	05.0	05.0	-360.0			HR6400
203)	11450.0000-11700.0000	8.0W	212.0W	05.0	05.0	-360.0			HR6400
204)	11450.0000-11700.0000	18.0W	18.0W	05.0	05.0	-360.0			HR6400
205)	11450.0000-11700.0000	34.5W	34.5W	05.0	05.0	-360.0			HR6400
206)	11450.0000-11700.0000	50.0W	50.0W	05.0	05.0	-360.0			HR6400
207)	11450.0000-11700.0000	53.0W	53.0W	05.0	05.0	-360.0			HR6400
208)	11450.0000-11700.0000	55.5W	55.5W	05.0	05.0	-360.0			HR6400
209)	11450.0000-11700.0000	58.0W	58.0W	05.0	05.0	-360.0			HR6400
210)	11450.0000-11700.0000	60.0E	60.0E	05.0	05.0	-360.0			HR6400
211)	11450.0000-11700.0000	66.0E	66.0E	05.0	05.0	-360.0			HR6400
212)	11450.0000-11700.0000	68.5E	68.5E	05.0	05.0	-360.0			HR6400
213)	11450.0000-11700.0000	72.1E	72.1E	05.0	05.0	-360.0			HR6400
214)	11450.0000-11700.0000	169.0E	169.0E	05.0	05.0	-360.0			HR6400
215)	11450.0000-11700.0000	180.0E	180.0E	05.0	05.0	-360.0			HR6400
216)	14000.0000-14250.0000	55.5W	55.5W	05.0	05.0	-360.0		-6.3	HR6400
217)	14000.0000-14250.0000	58.0W	58.0W	05.0	05.0	-360.0		-6.8	HR6400
218)	14000.0000-14500.0000	180.0E	180.0E	05.0	05.0	-360.0		-2.3	HR6400



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
219)	14000.0000-14500.0000	68.5E	-68.5E	05.0	-05.0	-360.0		-6.3	HR6400
220)	14000.0000-14500.0000	72.1E	-72.1E	05.0	-05.0	-360.0		-6.3	HR6400
221)	14000.0000-14500.0000	97.0W	-97.0W	05.0	-05.0	-360.0		-10.3	HR6400
222)	14000.0000-14500.0000	127.0W	-127.0W	05.0	-05.0	-360.0		-10.3	HR6400
223)	14000.0000-14500.0000	166.0E	-166.0E	05.0	-05.0	-360.0		-5.3	HR6400
224)	14000.0000-14500.0000	169.0E	-169.0E	05.0	-05.0	-360.0		-6.3	HR6400
225)	10950.0000-11200.0000	8.0W	-212.0W	05.0	-05.0	-360.0			HR6400
226)	10950.0000-11200.0000	18.0W	-18.0W	05.0	-05.0	-360.0			HR6400
227)	10950.0000-11200.0000	34.5W	-34.5W	05.0	-05.0	-360.0			HR6400
228)	10950.0000-11200.0000	50.0W	-50.0W	05.0	-05.0	-360.0			HR6400
229)	14000.0000-14250.0000	55.0W	-55.0W	05.0	-05.0	-360.0		-1	BB45KU
230)	14000.0000-14500.0000	60.0E	-60.0E	05.0	-05.0	-360.0			BB45KU
231)	14000.0000-14500.0000	66.0E	-66.0E	05.0	-05.0	-360.0		3	BB45KU
232)	14000.0000-14500.0000	68.5E	-68.5E	05.0	-05.0	-360.0		-1	BB45KU
233)	14000.0000-14500.0000	72.1E	-72.1E	05.0	-05.0	-360.0		-1	BB45KU
234)	14000.0000-14500.0000	166.0E	-166.0E	05.0	-05.0	-360.0			BB45KU
235)	14000.0000-14500.0000	169.0E	-169.0E	05.0	-05.0	-360.0		3	BB45KU
236)	14000.0000-14500.0000	180.0E	-180.0E	05.0	-05.0	-360.0		-1	BB45KU
237)	14000.0000-14500.0000	123.0W	-123.0W	05.0	-05.0	-360.0		-5	BB45KU
238)	14000.0000-14500.0000	99.0W	-99.0W	05.0	-05.0	-360.0		-5	BB45KU
239)	14000.0000-14500.0000	50.0W	-50.0W	05.0	-05.0	-360.0		-5	BB45KU
240)	14000.0000-14500.0000	45.0W	-45.0W	05.0	-05.0	-360.0		-5	BB45KU
241)	10950.0000-11200.0000	60.0E	-60.0E	05.0	-05.0	-360.0			BB45KU
242)	10950.0000-11200.0000	68.5E	-68.5E	05.0	-05.0	-360.0			BB45KU
243)	10950.0000-11200.0000	169.0E	-169.0E	05.0	-05.0	-360.0			BB45KU
244)	10950.0000-11200.0000	180.0E	-180.0E	05.0	-05.0	-360.0			BB45KU
245)	10950.0000-11200.0000	50.0W	-50.0W	05.0	-05.0	-360.0			BB45KU
246)	10950.0000-11200.0000	24.5W	-24.5W	05.0	-05.0	-360.0			BB45KU
247)	10950.0000-11200.0000	18.0W	-18.0W	05.0	-05.0	-360.0			BB45KU
248)	11450.0000-11700.0000	60.0E	-60.0E	05.0	-05.0	-360.0			BB45KU
249)	11450.0000-11700.0000	66.0E	-66.0E	05.0	-05.0	-360.0			BB45KU
250)	11450.0000-11700.0000	68.5E	-68.5E	05.0	-05.0	-360.0			BB45KU
251)	11450.0000-11700.0000	72.1E	-72.1E	05.0	-05.0	-360.0			BB45KU
252)	11450.0000-11700.0000	169.0E	-169.0E	05.0	-05.0	-360.0			BB45KU
253)	11450.0000-11700.0000	180.0E	-180.0E	05.0	-05.0	-360.0			BB45KU



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
254)	11450.0000-11700.0000	58.0W	58.0W	05.0	05.0	-360.0			BB45KU
255)	11450.0000-11700.0000	55.5W	55.5W	05.0	05.0	-360.0			BB45KU
256)	11450.0000-11700.0000	50.0W	50.0W	05.0	05.0	-360.0			BB45KU
257)	11450.0000-11700.0000	24.5W	24.5W	05.0	05.0	-360.0			BB45KU
258)	11450.0000-11700.0000	18.0W	18.0W	05.0	05.0	-360.0			BB45KU
259)	10950.0000-11200.0000	66.0E	66.0E	05.0	05.0	-360.0			BB45KU
260)	11700.0000-12200.0000	50.0W	50.0W	05.0	05.0	-360.0			BB45KU
261)	11450.0000-11950.0000	45.0W	45.0E	05.0	05.0	-360.0			BB45KU
262)	11700.0000-11950.0000	18.0W	18.0W	05.0	05.0	-360.0			BB45KU
263)	11700.0000-12200.0000	60.0E	60.0E	05.0	05.0	-360.0			BB45KU
264)	11700.0000-12200.0000	123.0W	123.0W	05.0	05.0	-360.0			BB45KU
265)	11700.0000-12200.0000	99.0W	99.0W	05.0	05.0	-360.0			BB45KU
266)	12200.0000-12250.0000	169.0E	169.0E	05.0	05.0	-360.0			BB45KU
267)	12250.0000-12750.0000	66.0E	66.0E	05.0	05.0	-360.0			BB45KU
268)	12250.0000-12750.0000	72.1E	72.1E	05.0	05.0	-360.0			BB45KU
269)	12250.0000-12750.0000	166.0E	166.0E	05.0	05.0	-360.0			BB45KU
270)	12250.0000-12750.0000	169.0E	169.0E	05.0	05.0	-360.0			BB45KU
271)	12250.0000-12750.0000	180.0E	180.0E	05.0	05.0	-360.0			BB45KU
272)	12250.0000-12750.0000	18.0W	18.0W	05.0	05.0	-360.0			BB45KU
273)	12500.0000-12750.0000	68.5E	68.5E	05.0	05.0	-360.0			BB45KU
274)	14000.0000-14250.0000	58.0E	58.0W	05.0	05.0	-360.0	-1.5		BB45KU
275)	14000.0000-14500.0000	24.5W	24.5W	05.0	05.0	-360.0	-5		BB45KU
276)	14000.0000-14500.0000	18.0W	18.0W	05.0	05.0	-360.0	0.7		BB45KU
277)	11450.0000-11700.0000	180.0E	180.0E	05.0	05.0	-360.0			BB30KU
278)	11450.0000-11700.0000	58.0W	58.0W	05.0	05.0	-360.0			BB30KU
279)	11450.0000-11700.0000	55.5W	55.5W	05.0	05.0	-360.0			BB30KU
280)	11450.0000-11700.0000	50.0W	50.0W	05.0	05.0	-360.0			BB30KU
281)	11450.0000-11700.0000	45.0W	45.0W	05.0	05.0	-360.0			BB30KU
282)	11450.0000-11700.0000	24.5W	24.5W	05.0	05.0	-360.0			BB30KU
283)	11450.0000-11700.0000	18.0W	18.0W	05.0	05.0	-360.0			BB30KU
284)	11700.0000-11950.0000	169.0E	169.0E	05.0	05.0	-360.0			BB30KU
285)	11700.0000-11950.0000	18.0E	18.0W	05.0	05.0	-360.0			BB30KU
286)	11700.0000-12200.0000	60.0E	60.0E	05.0	05.0	-360.0			BB30KU
287)	11700.0000-12200.0000	123.0W	123.0W	05.0	05.0	-360.0			BB30KU
288)	11700.0000-12200.0000	99.0W	99.0W	05.0	05.0	-360.0			BB30KU



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
289)	11700.0000-12200.0000	50.0W	50.0W	05.0	05.0	-360.0			BB30KU
290)	12200.0000-12250.0000	169.0E	169.0E	05.0	05.0	-360.0			BB30KU
291)	12250.0000-12750.0000	66.0E	66.0E	05.0	05.0	-360.0			BB30KU
292)	12250.0000-12750.0000	72.1E	72.1E	05.0	05.0	-360.0			BB30KU
293)	12250.0000-12750.0000	166.0E	166.0E	05.0	05.0	-360.0			BB30KU
294)	12250.0000-12750.0000	169.0E	169.0E	05.0	05.0	-360.0			BB30KU
295)	12250.0000-12750.0000	180.0E	180.0E	05.0	05.0	-360.0			BB30KU
296)	14000.0000-14500.0000	123.0W	123.0W	05.0	05.0	-360.0		-5	BB30KU
297)	14000.0000-14500.0000	99.0W	99.0W	05.0	05.0	-360.0		-5	BB30KU
298)	14000.0000-14500.0000	50.0W	50.0W	05.0	05.0	-360.0		-5	BB30KU
299)	14000.0000-14500.0000	45.0W	45.0W	05.0	05.0	-360.0		-5	BB30KU
300)	14000.0000-14500.0000	24.5W	24.5W	05.0	05.0	-360.0		-5	BB30KU
301)	14000.0000-14500.0000	18.0W	18.0W	05.0	05.0	-360.0		0.7	BB30KU
302)	10950.0000-11200.0000	60.0E	60.0E	05.0	05.0	-360.0			BB30KU
303)	10950.0000-11200.0000	66.0E	66.0E	05.0	05.0	-360.0			BB30KU
304)	10950.0000-11200.0000	68.5E	68.5E	05.0	05.0	-360.0			BB30KU
305)	10950.0000-11200.0000	169.0E	169.0E	05.0	05.0	-360.0			BB30KU
306)	10950.0000-11200.0000	180.0E	180.0E	05.0	05.0	-360.0			BB30KU
307)	10950.0000-11200.0000	50.0W	50.0W	05.0	05.0	-360.0			BB30KU
308)	10950.0000-11200.0000	24.5W	24.5W	05.0	05.0	-360.0			BB30KU
309)	10950.0000-11200.0000	18.0W	18.0W	05.0	05.0	-360.0			BB30KU
310)	11450.0000-11700.0000	60.0E	60.0E	05.0	05.0	-360.0			BB30KU
311)	11450.0000-11700.0000	66.0E	66.0E	05.0	05.0	-360.0			BB30KU
312)	11450.0000-11700.0000	68.5E	68.5E	05.0	05.0	-360.0			BB30KU
313)	11450.0000-11700.0000	72.1E	72.1E	05.0	05.0	-360.0			BB30KU
314)	11450.0000-11700.0000	169.0E	169.0E	05.0	05.0	-360.0			BB30KU
315)	14000.0000-14500.0000	68.5E	68.5E	05.0	05.0	-360.0		-1	BB30KU
316)	12500.0000-12750.0000	68.5E	68.5E	05.0	05.0	-360.0			BB30KU
317)	12500.0000-12750.0000	18.0W	18.0W	05.0	05.0	-360.0			BB30KU
318)	14000.0000-14250.0000	58.0W	58.0W	05.0	05.0	-360.0		-1.5	BB30KU
319)	14000.0000-14250.0000	55.5W	55.5W	05.0	05.0	-360.0		-1	BB30KU
320)	14000.0000-14500.0000	60.0E	60.0E	05.0	05.0	-360.0			BB30KU
321)	14000.0000-14500.0000	66.0E	66.0E	05.0	05.0	-360.0		3	BB30KU
322)	14000.0000-14500.0000	72.1E	72.1E	05.0	05.0	-360.0		-1	BB30KU
323)	14000.0000-14500.0000	166.0E	166.0E	05.0	05.0	-360.0			BB30KU



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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		
324)	14000.0000-14500.0000	169.0E	-169.0E	05.0	-05.0	-360.0		3	BB30KU
325)	14000.0000-14500.0000	180.0E	-180.0E	05.0	-05.0	-360.0		-10	BB30KU

D) Points of Communications

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

- 1) TECOM REMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 2) TECOM REMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 3) TECOM REMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 4) TECOM REMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 5) TECOM REMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 6) TECOM REMOTES to SKY-B1 (S2922) satellite @ 43.15 degrees W.L. (U.S.-licensed)
- 7) TECOM REMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 8) TECOM REMOTES to HORIZONS 1 (S2475) @ 127 degrees W.L. (Japan-licensed)
- 9) TECOM REMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 10) TECOM REMOTES to GALAXY 19 (S2647) @ 97 W.L. (U.S.-licensed)
- 11) TECOM REMOTES to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 12) TECOM REMOTES to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 13) TECOM REMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 14) TECOM REMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 15) TECOM REMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 16) TECOM REMOTES to Permitted Space Station List
- 17) TECOM REMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 18) RANTEC REMOTES to SKY-B1 (S2922) satellite @ 43.15 degrees W.L. (U.S.-licensed)
- 19) RANTEC REMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 20) RANTEC REMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 21) RANTEC REMOTES to Permitted Space Station List
- 22) RANTEC REMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 23) RANTEC REMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 24) RANTEC REMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 25) RANTEC REMOTES to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 26) RANTEC REMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 27) RANTEC REMOTES to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 28) RANTEC REMOTES to GALAXY 19 (S2647) @ 97 W.L. (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

D) Points of Communications

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

- 29) RANTEC REMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 30) RANTEC REMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 31) RANTEC REMOTES to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 32) RANTEC REMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 33) RANTEC REMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 34) RANTEC REMOTES to HORIZONS 1 (S2475) @ 127 degrees W.L. (Japan-licensed)
- 35) RANTEC REMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 36) HR129 REMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 37) HR129 REMOTES to HORIZONS 1 (S2475) @ 127 degrees W.L. (Japan-licensed)
- 38) HR129 REMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 39) HR129 REMOTES to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 40) HR129 REMOTES to Permitted Space Station List
- 41) HR129 REMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 42) HR129 REMOTES to SKY-B1 (S2922) satellite @ 43.15 degrees W.L. (U.S.-licensed)
- 43) HR129 REMOTES to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 44) HR129 REMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 45) HR129 REMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 46) HR129 REMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 47) HR129 REMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 48) HR129 REMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 49) HR129 REMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 50) HR129 REMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 51) HR129 REMOTES to GALAXY 19 (S2647) @ 97 W.L. (U.S.-licensed)
- 52) HR129 REMOTES to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 53) HR129 REMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 54) HR6400 REMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 55) HR6400 REMOTES to INTELSAT 23 (S2831) @ 53 degrees W.L. (U.S.-licensed)
- 56) HR6400 REMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 57) HR6400 REMOTES to Permitted Space Station List
- 58) HR6400 REMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 59) HR6400 REMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 60) HR6400 REMOTES to SKY-B1 (S2922) satellite @ 43.15 degrees W.L. (U.S.-licensed)
- 61) HR6400 REMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 62) HR6400 REMOTES to GALAXY 19 (S2647) @ 97 W.L. (U.S.-licensed)
- 63) HR6400 REMOTES to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 64) HR6400 REMOTES to HORIZONS 1 (S2475) @ 127 degrees W.L. (Japan-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

D) Points of Communications

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

- 65) HR6400 REMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 66) HR6400 REMOTES to INTELSAT 35e (S2959) @ 34.5 degrees W.L. (U.S.-licensed)
- 67) HR6400 REMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 68) HR6400 REMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 69) HR6400 REMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 70) HR6400 REMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 71) HR6400 REMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 72) BB45KUREMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 73) BB45KUREMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 74) BB45KUREMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 75) BB45KUREMOTES to GALAXY 18 satellite (S2733) @ 123 W.L.(U.S.-licensed satellite)
- 76) BB45KUREMOTES to Permitted Space Station List
- 77) BB45KUREMOTES to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 78) BB45KUREMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 79) BB45KUREMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 80) BB45KUREMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 81) BB45KUREMOTES to GALAXY 16 (S2687) @ 99 degrees W.L. (U.S.-licensed)
- 82) BB45KUREMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 83) BB45KUREMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 84) BB45KUREMOTES to INTELSAT 905 (S2409) @ 24.5 degrees W.L. (U.S.-licensed)
- 85) BB45KUREMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 86) BB45KUREMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 87) BB45KUREMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 88) BB30KUREMOTES to Permitted Space Station List
- 89) BB30KUREMOTES to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 90) BB30KUREMOTES to GALAXY 18 satellite (S2733) @ 123 W.L.(U.S.-licensed satellite)
- 91) BB30KUREMOTES to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 92) BB30KUREMOTES to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 93) BB30KUREMOTES to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 94) BB30KUREMOTES to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 95) BB30KUREMOTES to INTELSAT 34 (S2915) @ 55.5 degrees W.L. (U.S.-licensed)
- 96) BB30KUREMOTES to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 97) BB30KUREMOTES to GALAXY 16 (S2687) @ 99 degrees W.L. (U.S.-licensed)
- 98) BB30KUREMOTES to INTELSAT 17 (S2814) @ 66 E.L. (U.S.-licensed)
- 99) BB30KUREMOTES to INTELSAT 905 (S2409) @ 24.5 degrees W.L. (U.S.-licensed)
- 100) BB30KUREMOTES to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

D) Points of Communications

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

- 101) BB30KUREMOTES to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 102) BB30KUREMOTES to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 103) BB30KUREMOTES to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)

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)
BB30KUREMOTE	BB30KU	250	0.3	SKYTECH	BB30		3 AGL	
Max Gains(s):		31.5 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) =				15.90				
Maximum aggregate output EIRP for all carriers (dBW) =				43.50				
BB45KUREMOTE	BB45KU	250	0.45	SKYTECH	BB45		3 AGL	
Max Gains(s):		34.6 dBi @ 14.2500 GHz						
Maximum total input power at antenna flange (Watts) =				15.90				
Maximum aggregate output EIRP for all carriers (dBW) =				46.61				
HR129 REMOTE	HR129	1000	0.24	ASTRONICS AEROS	HR129			
Max Gains(s):		30.3 dBi @ 11.7000 GHz		31.4 dBi @ 14.2500 GHz				
Maximum total input power at antenna flange (Watts) =				10.00				
Maximum aggregate output EIRP for all carriers (dBW) =				41.90				
HR6400 REMOTES	HR6400	1000	0.86	ASTRONICS AEROSAT	HR6400			
Max Gains(s):		31.8 dBi @ 11.7000 GHz		32.5 dBi @ 14.2500 GHz				
Maximum total input power at antenna flange (Watts) =				16.80				
Maximum aggregate output EIRP for all carriers (dBW) =				45.50				
RANTEC REMOTES	Rantec	1000	0.46	Rantec Microwave Systems	Rantec SATCOM		0 AGL/ 0 AMSL	
Max Gains(s):		34.0 dBi @ 14.5000 GHz		32.2 dBi @ 11.3000 GHz				
Maximum total input power at antenna flange (Watts) =				10.00				
Maximum aggregate output EIRP for all carriers (dBW) =				43.40				



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File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

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)
TECOM REMOTE	TECOM	1000	0.65	TECOM	1500		0 AGL/ 0 AMSL	
Max Gains(s):		34.0 dBi @	14.5000 GHz	31.5 dBi @	12.0000 GHz			
Maximum total input power at antenna flange (Watts) =					10.00			
Maximum aggregate output EIRP for all carriers (dBW) =					42.50			

F) Remote Control Point:

BB30KUREMC	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign:
BB45KUREMC	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign:
HR129 REMOTES	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign:
HR6400 REMOTES	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign:
RANTEC REMOTES	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign: N/A



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

F) Remote Control Point:

TECOM
REMOTES

Network Operations Center, 2875 Fork Creek Church Road

Call Sign: N/A

Ellenwood, Clayton, GA 30294

1 404.381.2900

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:

4 --- Licensee must ensure that a current listing of the name, title, mailing address, email address, and telephone number of the responsible point of contact are on file at the FCC. Any changes must be filed electronically in the International Bureau Filing System (MyIBFS) using the "Pleadings and Comments" link on the MyIBFS homepage within 10 days of the change.

8 --- Licensee must notify the Commission when all earth stations operating under this authorization are no longer operational or when they have not been used to provide any service during any 6-month operation.

90062 --- Operation pursuant to this authorization outside the United States in the 14.0-14.5 GHz band must be in compliance with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz band.

90067 --- Operation in the territory or airspace of any country other than the United States must be in compliance with the applicable laws, regulations, and licensing procedures of that country, as well as with the conditions of this authorization.

90075 --- Licensee is afforded 30 days from the date of release of this grant and authorization to decline this authorization as conditioned. Failure to respond within this period will constitute formal acceptance of the authorization as conditioned.

90079 --- ESAAs in aircraft on the ground must not transmit at elevation angles less than three degrees. There is no minimum angle of antenna elevation for ESAAs while airborne.

90081 --- All operations shall be on a non-common carrier basis.

90104 --- For any new antenna authorized by this grant, the 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, Site ID, date of the license and certification that the antenna model was put into operation.

90105 --- Authority is granted to operate this station by remote control provided that the operator is responsible for ensuring the operations are in accordance with the terms and conditions of the license and pursuant to Section 25.271 of the Commission's rules. 47 C.F.R 25.271.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: Intelsat License LLC, as debtor-in-possession

Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

H) Special and General Provisions

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

- 90116 --- The licensee must maintain a U.S. point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein. The licensee shall have available, at all times, the technical personnel necessary to perform supervision of remote station operations.
- 90118 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.
- 90122 --- The earth stations in this blanket license are operated by remote control. The remote control point is a material term of the license and may not be changed without prior authorization under Section 25.117 of the Commission's rules. Public Notice "The International Bureau Provides Guidance Concerning the Relocation of Earth Station Remote Control Points," DA 06-978 (rel. May 4, 2006).
- 90123 --- Operations authorized pursuant to this license are operations by U.S.-registered aircraft anywhere within the coverage area/frequency bands identified in the application for the satellites listed as points of communication. Operations authorized pursuant to this license also include operations by non-U.S.-registered aircraft within U.S. territory, including territorial waters. Authorization for operations by U.S.-registered aircraft outside U.S. territory, pursuant to this license, does not constitute a grant of access to the market in the United States under the Commission's DISCO II policies.
- 90246 --- ESAs authorized herein must employ a tracking algorithm that is resistant to capturing and tracking adjacent satellite signals, and each station must be capable of inhibiting its own transmission in the event it detects unintended satellite tracking.
- 90247 --- ESAs authorized herein must be monitored and controlled by a ground-based network control and monitoring center. Such stations must be able to receive "enable transmission" and "disable transmission" commands from the network control center and must cease transmission immediately after receiving a "parameter change" command until receiving an "enable transmission" command from the network control center. The network control center must monitor operation of each ESA to determine if it is malfunctioning, and each ESA must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90248 --- Stations authorized herein must not be used to provide air traffic control communications.
- 90285 --- Operations in international waters and in territorial waters of other countries must be in compliance with the applicable laws, regulations, and licensing procedures of other countries, as well as with the conditions of this authorization.
- 90398 --- Changes to previously authorized transmitting facilities, operations and devices regulated by the Commission that may have significant environmental impact, and are not excluded by §1.1306, require the preparation of an Environmental Assessment (EA) by the licensee. (See 47 C.F.R. §§1.1307, 1.1308 and 1.1311)



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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:

- 90399 --- The licensee shall, at all times, take all necessary measures to ensure that operation of this (these) authorized earth station(s) does not create potential exposure of humans to radiofrequency radiation in excess of the FCC exposure limits defined in 47 CFR §§ 1.1307(b) and 1.1310. Physical measures must be taken to ensure compliance with limits for both occupational/controlled exposure and for general population/uncontrolled exposure, as defined in these rule sections. Compliance can be accomplished in most cases by appropriate restrictions, such as fencing. Requirements for restrictions can be determined by predictions based on calculations, modeling, or by field measurements. The FCC's OET Bulletin 65 (available on-line at www.fcc.gov/oet/rfsafety) provides information on predicting exposure levels and on methods for ensuring compliance, including the use of warning and alerting signs and protective equipment for workers.
- 90405 --- Operations with PERMITTED LIST satellite must comply with §25.212 levels and operations above these levels must coordinate with satellite operators prior to operations.
- 90506 --- VMES operations with Permitted List satellites are authorized only within this emission designator and its associated Max. EIRP/ Carrier and Max EIRP Density/carrier limits specified in section B.
- 90507 --- VMES operations are limited to situations where operations of the antenna do not exceed the maximum permissible exposure limits established in the OET Bulletin 65.
- 90535 --- Communications between licensee aircraft earth stations and the relevant space station must be in compliance with all existing and future space station coordination agreements reached between the space station Administration and other Administrations.
- 90549 --- The ESAAs authorized herein must comply with the terms of the applicable space station authorization(s) as well as the Commission's rules on frequency use, including 47 CFR § 25.202, 47 CFR § 25.228, and applicable footnotes to the Table of Frequency Allocations, 47 CFR § 2.106, including NG52, NG457A, and NG527A.
- 90554 --- Operations pursuant to this license modification must comply with the conditions set forth in the initial earth station blanket license and all subsequent modifications or amendments to the license: IBFS File No. SES-LIC-20170626-00682, Call Sign E170121.



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RADIO STATION AUTHORIZATION

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Call Sign: E170121

Authorization Type: Modification of License

File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

Expiration Date: 10/04/2032

H) Special and General Provisions

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

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

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

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



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File Number: SES-MFS-20181213-03453

Non Common Carrier

Grant date: 10/14/2020

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

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

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

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

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

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

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

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

This authorization shall be automatically forfeited if the station does not meet each required construction deadline by the required date of completion unless, before such date(s), a specific application is timely filed to request an extension of the construction deadline(s), supported with good cause why that failure to construct 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.