



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682  
 Grant date: 10/04/2017      Expiration Date: 10/04/2032



Nature of Service: Earth Station Aboard Aircraft  
 Nature of Service: Fixed Satellite Service  
 Class of Station: Blanket Earth Stations

**A) Site Location(s)**

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	Rantec Remotes	2875 Fork Creek Church Road .46 METER, (1000 UNITS) Ellenwood, GA 30294 Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
2)	TECOM Remotes	2875 Fork Creek Church Road .65 METER, (1000 UNITS) Ellenwood, GA 30294 Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA

*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 4, 2018 (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	375KG7W	Tx	30.60	11.70	Rantec		Digital Data Services
2)	14000.0000-14500.0000	H,V	7M05G7W	Tx	43.40	11.70	Rantec		Digital Data Services
3)	14000.0000-14250.0000	H,V	375KG7W	Tx	30.60	11.70	Rantec		Digital Data Services
4)	14000.0000-14250.0000	H,V	7M05G7W	Tx	43.40	11.70	Rantec		Digital Data Services
5)	12500.0000-12750.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017      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
6)	12500.0000-12750.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
7)	12500.0000-12750.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
8)	12250.0000-12750.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
9)	12250.0000-12750.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
10)	12250.0000-12750.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
11)	12200.0000-12250.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
12)	12200.0000-12250.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
13)	12200.0000-12250.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
14)	11700.0000-12200.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
15)	11700.0000-12200.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
16)	11700.0000-12200.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
17)	11700.0000-11950.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
18)	11700.0000-11950.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
19)	11700.0000-11950.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
20)	11450.0000-11950.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
21)	11450.0000-11950.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
22)	11450.0000-11950.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
23)	11450.0000-11700.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
24)	11450.0000-11700.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
25)	11450.0000-11700.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
26)	10950.0000-11200.0000	H,V	18M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
27)	10950.0000-11200.0000	H,V	1M20G7W	Rx	0.00	0.00	Rantec		Digital Data Services
28)	10950.0000-11200.0000	H,V	54M0G7W	Rx	0.00	0.00	Rantec		Digital Data Services
29)	14000.0000-14500.0000	H,V	2M59G7W	Tx	42.50	15.20	TECOM		Digital Data Services



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017      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
30)	14000.0000-14500.0000	H,V	375KG7W	Tx	34.10	15.20	TECOM		Digital Data Services
31)	14000.0000-14250.0000	H,V	2M59G7W	Tx	42.50	15.20	TECOM		Digital Data Services
32)	14000.0000-14250.0000	H,V	375KG7W	Tx	34.10	15.20	TECOM		Digital Data Services
33)	12500.0000-12750.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
34)	12500.0000-12750.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
35)	12500.0000-12750.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
36)	12250.0000-12750.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
37)	12250.0000-12750.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
38)	12250.0000-12750.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
39)	12200.0000-12250.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
40)	12200.0000-12250.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
41)	12200.0000-12250.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
42)	11700.0000-12200.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
43)	11700.0000-12200.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
44)	11700.0000-12200.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
45)	11700.0000-11950.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
46)	11700.0000-11950.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
47)	11700.0000-11950.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
48)	11450.0000-11950.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
49)	11450.0000-11950.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
50)	11450.0000-11950.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
51)	11450.0000-11700.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
52)	11450.0000-11700.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
53)	11450.0000-11700.0000	H,V	54M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017      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
54)	10950.0000-11200.0000	H,V	18M0G7W	Rx	0.00	0.00	TECOM		Digital Data Services
55)	10950.0000-11200.0000	H,V	1M20G7W	Rx	0.00	0.00	TECOM		Digital Data Services
56)	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
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



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682  
 Grant date: 10/04/2017      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		
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
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



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
 Authorization Type: License  
 Non Common Carrier

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682  
 Grant date: 10/04/2017      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		
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
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



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  


---

**RADIO STATION AUTHORIZATION**

**Name:** Intelsat License LLC  
**Authorization Type:** License  
 Non Common Carrier

**Call Sign:** E170121  
**File Number:** SES-LIC-20170626-00682  
**Grant date:** 10/04/2017      **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		
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
114)	14000.0000-14500.0000	8.0W	212.0W	05.0	05.0	000.0	360.0	4.9	Rantec

**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 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  
Authorization Type: License  
Non Common Carrier

Call Sign: E170121  
File Number: SES-LIC-20170626-00682  
Grant date: 10/04/2017      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:

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

Call Sign: E170121  
 File Number: SES-LIC-20170626-00682  
 Grant date: 10/04/2017      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)
Rantec Remotes	Rantec	1000	0.46	Rantec Microwave Systems	Rantec SATCOM		0 AGL/ 0 AMSL	
Max Gains(s):		32.2 dBi @	11.3000 GHz	34.0 dBi @	14.5000 GHz			
Maximum total input power at antenna flange (Watts) =					10.00			
Maximum aggregate output EIRP for all carriers (dBW) =					43.40			
TECOM Remote	TECOM	1000	0.65	TECOM	1500		0 AGL/ 0 AMSL	
Max Gains(s):		31.5 dBi @	12.0000 GHz	34.0 dBi @	14.5000 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:**

Rantec Remotes	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign: N/A
TECOM Remotes	Network Operations Center, 2875 Fork Creek Church Road Ellenwood, Clayton, GA 30294 1 404.381.2900	Call Sign: N/A

**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 (IBFS) in the "Other Filings" tab within 10 days of the change.



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  

---

**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
Authorization Type: License  
Non Common Carrier

Call Sign: E170121  
File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017      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:

- 5 --- Licensee must notify the Commission when an earth station is no longer operational or when it has not been used to provide any service during any 6-month operation.
- 6 --- Licensee must comply with the license modification and notification requirements of 47 CFR § 25.118 to change the coordinates of its authorized earth station.
- 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.
- 90066 --- Stations authorized herein must not be used to provide air traffic control communications.
- 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 --- Antenna elevation for all operations must be at least 5 degrees above the geographic horizon while the aircraft is on the ground.
- 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.
- 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).



UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC

Authorization Type: License

Non Common Carrier

Call Sign: E170121

File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017

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:

- 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 --- ESAAs 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 --- ESAAs 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 ESAA to determine if it is malfunctioning, and each ESAA must self-monitor and automatically cease transmission on detecting an operational fault that could cause harmful interference to a fixed-satellite service network.
- 90259 --- For purposes of this authorization, the term earth stations aboard aircraft, or ESAA, is used to refer to any earth station on aircraft communicating with Fixed-Satellite Service (FSS) geostationary-orbit (GSO) space stations, without reference to the technical and licensing rules specifically adopted for earth stations on aircraft in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz, and 14.0-14.5 GHz frequency bands. See 47 C.F.R. § 25.227; Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.34-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands, IB Docket No. 12-376, Notice of Proposed Rulemaking and Report and Order, FCC 12-161, 27 FCC Rcd 16510 (2012); Revisions of Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary-Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands, IB Docket No. 12-376, Second Report and Order on Reconsideration, FCC 14-45, 29 FCC Rcd 4226 (2014). Nothing in this authorization extends those technical and licensing rules to earth stations on aircraft not operating in those specified frequency bands.
- 90304 --- Operation pursuant to this authorization must be in compliance with the terms of the licensee's coordination agreements with the National Science Foundation and the National Aeronautics and Space Administration pertaining to operation of ESAAs in the Ku-Band.
- 90305 --- When operating in international airspace within line-of-sight of the territory of a foreign administration where Fixed Service networks have a primary allocation in the 14.0-14.5 GHz band, an ESAA must not produce ground-level power flux density (pfd) in such territory in excess of the following values unless the foreign administration has imposed other conditions for protecting its FS stations:  $-132 + 0.5 \times \text{THETA}$  dB(W/(m<sup>2</sup> MHz)) for  $\text{THETA} \leq 40^\circ$ ;  $-112$  dB(W/(m<sup>2</sup> MHz)) for  $40^\circ < \text{THETA} \leq 90^\circ$ . Where: THETA is the angle of arrival of the radio-frequency wave in degrees above the horizontal, and the aforementioned limits relate to the pfd and angles of arrival that would be obtained under free space propagation conditions.



UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC

Authorization Type: License

Non Common Carrier

Call Sign: E170121

File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017

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:

- 90308 --- The ESAAs are authorized to receive downlink transmissions in the 11.7-12.2 GHz frequency band from the geostationary orbit space stations listed as a point of communication in Section D above subject to the particulars of operation and identified frequencies included in Section B above and the licensee's application. Reception is authorized on a primary basis as an application of the Fixed-Satellite Service pursuant to the allocation determinations and service rules in IB Docket No.12-376 (Docket Name: Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands). Operations must be in accordance with the Federal Communications Commission's rules not waived herein, the technical specifications contained in licensee's application, and are subject to the other conditions listed in the authorization.
- 90309 --- The ESAAs are authorized to receive downlink transmissions in the 10.95-11.2 GHz and 11.45-11.7 GHz frequency band from the geostationary orbit space stations listed as a point of communication in Section D above subject to the particulars of operation and identified frequencies included in Section B above and the licensee's application. Reception is authorized on an unprotected basis as an application of the Fixed-Satellite Service pursuant to the allocation determinations and service rules in IB Docket No.12-376 (Docket Name: Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands). Operations must be in accordance with the Federal Communications Commission's rules not waived herein, the technical specifications contained in licensee's application, and are subject to the other conditions listed in the authorization.
- 90310 --- For each ESAA transmitter, the licensee shall maintain records of the following data for each operating ESAA, a record of the aircraft location (i.e., latitude/longitude/altitude), transmit frequency, channel bandwidth and satellite used shall be time annotated and maintained for a period of not less than one year. Records shall be recorded at time intervals no greater than one (1) minute while the ESAA is transmitting. The ESAA operator shall make this data available, in the form of a comma delimited electronic spreadsheet, within 24 hours of a request from the Commission, NTIA, or a frequency coordinator for purposes of resolving harmful interference events. A description of the units (i.e., degrees, minutes, MHz ...) in which the records values are recorded will be supplied along with the records.
- 90311 --- The ESAAs are authorized to transmit in the 14.0-14.5 GHz frequency band to the geostationary orbit space stations listed as a point of communication in Section D above subject to the particulars of operation and identified frequencies included in Section B above and the licensee's application. Such transmissions are authorized on a primary basis as an application of the Fixed-Satellite Service pursuant to the allocation determinations and service rules in IB Docket No. 12-376 (Docket Name: Revisions to Parts 2 and 25 of the Commission's Rules to Govern the Use of Earth Stations Aboard Aircraft Communicating with Fixed-Satellite Service Geostationary Orbit Space Stations Operating in the 10.95-11.2 GHz, 11.45-11.7 GHz, 11.7-12.2 GHz and 14.0-14.5 GHz Frequency Bands). Operations must be in accordance with the Federal Communications Commission's rules not waived herein, the technical specifications contained in licensee's application, and are subject to the other conditions listed in the 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)



UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
Authorization Type: License  
Non Common Carrier

Call Sign: E170121  
File Number: SES-LIC-20170626-00682  
Grant date: 10/04/2017      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:

- 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](http://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.
- 90412 --- 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 in the following bands: 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). Operations pursuant to this authorization in the 14-14.5 GHz (Earth-to-space) frequency band with space stations on the Permitted List must comply with the off axis e.i.r.p. density power limits established in 47 CFR 25.227(a)(1).
- 900413 --- Operation pursuant to this authorization must be in compliance with the terms of coordination agreements between Intelsat License LLC and operators of other Ku-band geostationary space stations within six angular degrees of those space stations. In the event that another GSO Fixed-Satellite Service space station commences operation in the 14.0-14.5 GHz band at a location within six degrees of any of these space stations, aircraft earth stations operating pursuant to this authorization must cease transmitting to that space station unless and until such operation has been coordinated with the new space station's operator or Intelsat License LLC demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
- 900414 --- Reception of downlink transmissions is on a non-interference, non-protected basis from the following geostationary orbit space stations: IS-17 (Call Sign: S2814) at 66° E.L. in the 12.2-12.75 GHz frequency band; IS-18 (Call Sign: S2817) at 180° E.L. in the 12.25-12.75 GHz frequency band; IS-20 (Call Sign: S2847) at 68.5° E.L. in the 12.5-12.75 GHz frequency band; IS-22 (Call Sign: S2846) at 72.1° E.L. in the 12.25-12.75 GHz frequency band; and IS-37 (Call Sign: S2972) at 18° W.L. in the 12.5-12.75 GHz frequency band. When receiving transmissions from these satellites in these frequency bands, the ESAA operations authorized herein must accept interference from any authorized user of the band.
- 900415 --- Reception of downlink transmissions in ITU Region 2 is on a non-interference, non-protected basis from the following geostationary orbit space stations: Horizons 3e (S2947) at 169° E.L. in the 12.2-12.75 GHz frequency band; IS-19 (Call Sign: S2850) at 166° E.L. in the 12.25-12.75 GHz frequency band; IS-33e (Call Sign S2939) at 60.0° E.L. in the 12.5-12.6 GHz frequency band. Operations are not authorized in these bands over the U.S. and its territories.



**UNITED STATES OF AMERICA**  
**FEDERAL COMMUNICATIONS COMMISSION**  

---

**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC  
Authorization Type: License  
Non Common Carrier

Call Sign: E170121  
File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017      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:

- 900416 --- Intelsat's request for a limited waiver of Section 25.227(a)(1)(i)(B) of the Commission's rules, 47 C.F.R. § 25.227(a)(1)(i)(B), to permit operation of the TECOM terminal at off-axis eirp limits in the plane perpendicular to the GSO arc in excess of those set forth in Section 25.227(a)(1)(i)(B), is GRANTED, as conditioned: In the event a future NGSO network is deployed in the Ku-band that would receive interference from the higher off-axis radiated power, Intelsat must coordinate with the NGSO network in order to facilitate co-frequency operations and must modify its ESAA operations to reflect any coordination agreement reached. In the event a coordination agreement is not reached, Intelsat must comply with the eirp density limits set forth in section 25.227(a)(1)(i)(B).
- 900417 --- Waiver of 25.115(g)(1)(i) of the Commission's rules, 47 C.F.R. § 25.115(g)(1)(i), is GRANTED for the Rantec terminal.
- 900418 --- Communications between Intelsat License LLC's ESAAs and the Horizons 1 space station must be in compliance with all existing and future space station coordination agreements reached between Japan and other Administrations.



UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
**RADIO STATION AUTHORIZATION**

Name: Intelsat License LLC

Authorization Type: License

Non Common Carrier

Call Sign: E170121

File Number: SES-LIC-20170626-00682

Grant date: 10/04/2017

Expiration Date: 10/04/2032

**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.**

