



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: AC BidCo LLC

Call Sign: E120106

Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

Nature of Service: Earth Station Aboard Aircraft

Nature of Service: Fixed Satellite Service

Nature of Service: Other

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	AES1	UP TO 1000 ESAA TERMINALS (0.24 m) CONUS and OCONUS, 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.			0	NA
2)	AES2	UP TO 2500 ESAA TERMINALS (0.74 m) CONUS and OCONUS, 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

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 May 1, 2013 (3 AM Eastern Standard Time) and ending May 1, 2028 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is 00/00/0000. 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	4M10G7D	Tx	38.10	8.00	AES1		DIGITAL DATA SERVICES
2)	14000.0000-14500.0000	H,V	9M36G7D	Tx	42.32	9.77	AES1		DIGITAL DATA SERVICES
3)	14000.0000-14500.0000	H,V	1M00G7W	Tx	44.33	20.35	AES1		DIGITAL DATA SERVICES



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4)	14000.0000-14500.0000	H, V	1M20G7W	Tx	44.20	19.43	AES1		DIGITAL DATA SERVICES
5)	14000.0000-14500.0000	H, V	1M40G7D	Tx	44.60	19.10	AES1		DIGITAL DATA SERVICES
6)	14000.0000-14500.0000	H, V	1M67G7W	Tx	42.74	16.54	AES1		DIGITAL DATA SERVICES
7)	14000.0000-14500.0000	H, V	1M75G7W	Tx	43.10	16.69	AES1		DIGITAL DATA SERVICES
8)	14000.0000-14500.0000	H, V	2M00G7W	Tx	44.50	17.50	AES1		DIGITAL DATA SERVICES
9)	14000.0000-14500.0000	H, V	2M30G7W	Tx	44.50	16.90	AES1		Digital Data Services
10)	14000.0000-14500.0000	H, V	2M34G7D	Tx	44.63	18.11	AES1		DIGITAL DATA SERVICES
11)	14000.0000-14500.0000	H, V	2M40G7D	Tx	43.89	16.91	AES1		DIGITAL DATA SERVICES
12)	14000.0000-14500.0000	H, V	2M50G7D	Tx	44.57	17.76	AES1		DIGITAL DATA SERVICES
13)	14000.0000-14500.0000	H, V	2M50G7W	Tx	44.25	16.29	AES1		Digital Data Services
14)	14000.0000-14500.0000	H, V	3M00G7W	Tx	44.50	15.75	AES1		DIGITAL DATA SERVICES
15)	14000.0000-14500.0000	H, V	3M66G7D	Tx	44.55	16.06	AES1		DIGITAL DATA SERVICES
16)	14000.0000-14500.0000	H, V	3M79G7D	Tx	44.48	15.83	AES1		DIGITAL DATA SERVICES
17)	14000.0000-14500.0000	H, V	3M89G7D	Tx	44.55	15.79	AES1		DIGITAL DATA SERVICES
18)	14000.0000-14500.0000	H, V	3M90G7D	Tx	44.49	15.75	AES1		DIGITAL DATA SERVICES
19)	14000.0000-14500.0000	H, V	4M00G7W	Tx	44.50	14.50	AES1		DIGITAL DATA SERVICES
20)	14000.0000-14500.0000	H, V	4M10G7D	Tx	42.80	12.70	AES1		DIGITAL DATA SERVICES
21)	14000.0000-14500.0000	H, V	5M00G7W	Tx	44.50	13.50	AES1		DIGITAL DATA SERVICES
22)	14000.0000-14500.0000	H, V	6M00G7D	Tx	44.40	12.70	AES1		DIGITAL DATA SERVICES
23)	14000.0000-14500.0000	H, V	6M35G7W	Tx	43.70	11.69	AES1		Digital Data Services
24)	14000.0000-14500.0000	H, V	6M56G7D	Tx	44.43	12.28	AES1		DIGITAL DATA SERVICES
25)	14000.0000-14500.0000	H, V	6M57G7D	Tx	44.53	13.51	AES1		DIGITAL DATA SERVICES
26)	14000.0000-14500.0000	H, V	6M76G7W	Tx	43.50	11.22	AES1		DIGITAL DATA SERVICES
27)	14000.0000-14500.0000	H, V	6M94G7D	Tx	44.45	12.05	AES1		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
28)	14000.0000-14500.0000	H, V	830KG7W	Tx	42.40	19.22	AES1		DIGITAL DATA SERVICES
29)	14000.0000-14500.0000	H, V	882KG7D	Tx	44.56	22.59	AES1		DIGITAL DATA SERVICES
30)	14000.0000-14500.0000	H, V	8M00G7D	Tx	44.50	11.49	AES1		DIGITAL DATA SERVICES
31)	14000.0000-14500.0000	H, V	8M19G7D	Tx	43.20	10.10	AES1		DIGITAL DATA SERVICES
32)	14000.0000-14250.0000	H, V	2M05G7W	Tx	42.67	15.57	AES1		Digital Data Services
33)	12200.0000-12750.0000	H, V	30M0G7D	Rx	0.00	0.00	AES1		Digital Data Services
34)	11700.0000-12200.0000	H, V	30M0G7D	Rx			AES1		Digital Data Services
35)	11450.0000-11700.0000	H, V	30M0G7D	Rx			AES1		Digital Data Services
36)	11200.0000-11450.0000	H, V	30M0G7W	Rx			AES1		Digital Data Services
37)	10950.0000-11200.0000	H, V	30M0G7D	Rx			AES1		Digital Data Services
38)	10700.0000-12750.0000	H, V	138MG7W	Rx			AES1		DIGITAL DATA SERVICES
39)	14000.0000-14500.0000	H, V	7M17G7D	Tx	40.90	8.40	AES2		DIGITAL DATA SERVICES
40)	14000.0000-14500.0000	H, V	7M20G7W	Tx	42.43	9.88	AES2		DIGITAL DATA SERVICES
41)	14000.0000-14500.0000	H, V	7M28G7D	Tx	41.60	9.00	AES2		DIGITAL DATA SERVICES
42)	14000.0000-14500.0000	H, V	7M40G7D	Tx	41.40	8.70	AES2		DIGITAL DATA SERVICES
43)	14000.0000-14500.0000	H, V	7M50G7D	Tx	41.60	8.90	AES2		DIGITAL DATA SERVICES
44)	14000.0000-14500.0000	H, V	14M7G7D	Tx	47.25	11.56	AES2		DIGITAL DATA SERVICES
45)	14000.0000-14500.0000	H, V	1M00G7W	Tx	44.71	20.73	AES2		DIGITAL DATA SERVICES
46)	14000.0000-14500.0000	H, V	1M20G7W	Tx	44.50	19.73	AES2		DIGITAL DATA SERVICES
47)	14000.0000-14500.0000	H, V	1M51G7D	Tx	44.60	18.90	AES2		DIGITAL DATA SERVICES
48)	14000.0000-14500.0000	H, V	1M75G7W	Tx	42.60	16.19	AES2		DIGITAL DATA SERVICES
49)	14000.0000-14500.0000	H, V	1M80G7D	Tx	43.20	16.60	AES2		DIGITAL DATA SERVICES
50)	14000.0000-14500.0000	H, V	2M00G7D	Tx	43.90	16.90	AES2		DIGITAL DATA SERVICES
51)	14000.0000-14500.0000	H, V	2M00G7D	Tx	44.60	17.60	AES2		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
52)	14000.0000-14500.0000	H, V	2M00G7W	Tx	46.98	19.99	AES2		DIGITAL DATA SERVICES
53)	14000.0000-14500.0000	H, V	2M10G7D	Tx	44.20	17.00	AES2		DIGITAL DATA SERVICES
54)	14000.0000-14500.0000	H, V	2M27G7D	Tx	44.60	17.00	AES2		DIGITAL DATA SERVICES
55)	14000.0000-14500.0000	H, V	2M40G7D	Tx	44.50	16.70	AES2		DIGITAL DATA SERVICES
56)	14000.0000-14500.0000	H, V	2M50G7W	Tx	48.70	20.74	AES2		DIGITAL DATA SERVICES
57)	14000.0000-14500.0000	H, V	3M00G7D	Tx	44.50	15.70	AES2		DIGITAL DATA SERVICES
58)	14000.0000-14500.0000	H, V	3M00G7W	Tx	50.20	21.40	AES2		DIGITAL DATA SERVICES
59)	14000.0000-14500.0000	H, V	3M60G7D	Tx	44.60	15.00	AES2		DIGITAL DATA SERVICES
60)	14000.0000-14500.0000	H, V	4M00G7W	Tx	45.94	15.94	AES2		DIGITAL DATA SERVICES
61)	14000.0000-14500.0000	H, V	4M10G7D	Tx	41.60	11.50	AES2		DIGITAL DATA SERVICES
62)	14000.0000-14500.0000	H, V	4M80G7D	Tx	44.60	13.80	AES2		DIGITAL DATA SERVICES
63)	14000.0000-14500.0000	H, V	5M05G7W	Tx	45.50	14.49	AES2		DIGITAL DATA SERVICES
64)	14000.0000-14500.0000	H, V	5M60G7D	Tx	44.50	13.00	AES2		DIGITAL DATA SERVICES
65)	14000.0000-14500.0000	H, V	5M64G7D	Tx	40.70	13.10	AES2		DIGITAL DATA SERVICES
66)	14000.0000-14500.0000	H, V	5M83G7D	Tx	44.50	12.90	AES2		DIGITAL DATA SERVICES
67)	14000.0000-14500.0000	H, V	5M97G7D	Tx	43.10	11.40	AES2		DIGITAL DATA SERVICES
68)	14000.0000-14500.0000	H, V	6M00G7W	Tx	45.08	13.32	AES2		DIGITAL DATA SERVICES
69)	14000.0000-14500.0000	H, V	6M35G7W	Tx	44.80	12.79	AES2		DIGITAL DATA SERVICES
70)	14000.0000-14500.0000	H, V	6M72G7D	Tx	42.30	10.00	AES2		DIGITAL DATA SERVICES
71)	14000.0000-14500.0000	H, V	7M48G7W	Tx	43.87	11.15	AES2		DIGITAL DATA SERVICES
72)	14000.0000-14500.0000	H, V	8M00G7D	Tx	44.60	11.60	AES2		DIGITAL DATA SERVICES
73)	14000.0000-14500.0000	H, V	8M10G7D	Tx	43.20	10.10	AES2		DIGITAL DATA SERVICES
74)	14000.0000-14500.0000	H, V	930KG7W	Tx	42.40	18.74	AES2		DIGITAL DATA SERVICES
75)	14000.0000-14250.0000	H, V	2M05G7W	Tx	41.70	14.60	AES2		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
76)	12250.0000-12750.0000	H, V	30M0G7D	Rx			AES2		DIGITAL DATA SERVICES
77)	11700.0000-12200.0000	H, V	30M0G7D	Rx			AES2		DIGITAL DATA SERVICES
78)	11450.0000-11700.0000	H, V	30M0G7D	Rx			AES2		DIGITAL DATA SERVICES
79)	11200.0000-11450.0000	H, V	30M0G7W	Rx			AES2		DIGITAL DATA SERVICES
80)	10950.0000-11200.0000	H, V	30M0G7D	Rx			AES2		DIGITAL DATA SERVICES
81)	10700.0000-12750.0000	H, V	138MG7W	Rx			AES2		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	302.0E	302.0E	05.0	05.0	000.0	000.0	-3.9	AES1
2)	14000.0000-14500.0000	101.0W	101.0W	05.0	05.0	000.0	000.0	-2	AES1
3)	14000.0000-14500.0000	315.0E	315.0E	05.0	05.0	000.0	000.0	-3.9	AES1
4)	12250.0000-12750.0000	166.0E	166.0E	05.0	05.0	000.0	000.0		AES1
5)	14000.0000-14500.0000	166.0E	166.0E	05.0	05.0	000.0	000.0	-3.9	AES1
6)	11700.0000-12200.0000	101.0W	101.0W	05.0	05.0	000.0	000.0		AES1
7)	11700.0000-11950.0000	315.0E	315.0E	05.0	05.0	000.0	000.0		AES1
8)	11700.0000-12200.0000	302.0E	302.0E	05.0	05.0	000.0	000.0		AES1
9)	12500.0000-12750.0000	338.0E	338.0E	05.0	05.0				AES1
10)	14000.0000-14500.0000	338.0E	338.0E	05.0	05.0			-3.9	AES1
11)	11450.0000-11700.0000	302.0E	302.0E	05.0	05.0			0	AES1
12)	12250.0000-12500.0000	72.1E	72.1E	05.0	05.0	-000.0			AES1
13)	14000.0000-14500.0000	72.1E	72.1E	05.0	05.0			-3.9	AES1
14)	11700.0000-12200.0000	172.0E	172.0E	05.0	05.0				AES1
15)	14000.0000-14500.0000	40.5W	40.5W	05.0	05.0			0.6	AES1
16)	14000.0000-14500.0000	60.0E	60.0E	05.0	05.0			-1	AES1
17)	14000.0000-14500.0000	114.9W	114.9W	05.0	05.0			-4	AES1
18)	14000.0000-14500.0000	172.0E	172.0E	05.0	05.0			5.1	AES1



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C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
19)	10950.0000-11200.0000	172.0E	172.0E	05.0	05.0				AES1
20)	11450.0000-11700.0000	172.0E	172.0E	05.0	05.0				AES1
21)	12200.0000-12750.0000	172.0E	172.0E	05.0	05.0				AES1
22)	10950.0000-11200.0000	40.5W	40.5W	05.0	05.0				AES1
23)	10950.0000-11200.0000	60.0E	60.0E	05.0	05.0				AES1
24)	11450.0000-11700.0000	60.0E	60.0E	05.0	05.0				AES1
25)	11700.0000-12200.0000	114.9W	114.9W	05.0	05.0				AES1
26)	14000.0000-14500.0000	37.5W	37.5W	05.0	05.0			-11.5	AES1
27)	14000.0000-14500.0000	138.0E	138.0E	05.0	05.0			-11.5	AES1
28)	11450.0000-11700.0000	37.5W	37.5W	05.0	05.0				AES1
29)	12250.0000-12750.0000	138.0E	138.0E	05.0	05.0				AES1
30)	14000.0000-14500.0000	90.0E	91.0W	05.0	05.0	090.0	270.0	0.06	AES1
31)	10950.0000-11200.0000	90.0E	91.0W	05.0	05.0	090.0	270.0		AES1
32)	11450.0000-11700.0000	90.0E	91.0W	05.0	05.0	090.0	270.0		AES1
33)	11700.0000-12200.0000	90.0E	91.0W	05.0	05.0	090.0	270.0		AES1
34)	12200.0000-12750.0000	90.0E	91.0W	05.0	05.0	090.0	270.0		AES1
35)	11200.0000-11450.0000	180.0E	180.0W	05.0	05.0	090.0	270.0		AES1
36)	14000.0000-14500.0000	180.0E	180.0W	05.0	05.0	090.0	270.0	0.6	AES1
37)	14000.0000-14500.0000	81.0W	81.0W	05.0	05.0	090.0	270.0		AES1
38)	11700.0000-12200.0000	81.0W	81.0W	05.0	05.0	090.0	270.0		AES1
39)	10700.0000-12750.0000	180.0W	177.0W	05.0	05.0	000.0	000.0		AES1
40)	14000.0000-14500.0000	138.0E	138.0E	15.0	15.0			-14.8	AES2
41)	14000.0000-14500.0000	166.0E	166.0E	15.0	15.0			-18.6	AES2
42)	14000.0000-14500.0000	302.0E	302.0E	15.0	15.0			-25	AES2
43)	14000.0000-14500.0000	315.0E	315.0E	15.0	15.0			-22.5	AES2
44)	14000.0000-14500.0000	319.5E	319.5E	15.0	15.0			-17.5	AES2
45)	14000.0000-14500.0000	338.0E	338.0E	15.0	15.0			-18.4	AES2
46)	10950.0000-11200.0000	37.5W	37.5W	12.0	12.0				AES2
47)	10950.0000-11200.0000	60.0E	60.0E	15.0	15.0				AES2
48)	10950.0000-11200.0000	319.5E	319.0E	15.0	15.0				AES2
49)	11450.0000-11700.0000	37.5W	37.5W	15.0	15.0				AES2
50)	14000.0000-14500.0000	37.5W	37.5W	12.0	12.0	000.0		-20.5	AES2
51)	14000.0000-14500.0000	60.0E	60.0E	15.0	15.0			-7.1	AES2
52)	14000.0000-14500.0000	72.1E	72.1E	15.0	15.0			-26.4	AES2
53)	14000.0000-14500.0000	101.0W	101.0W	15.0	15.0			-21.4	AES2



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		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
54)	14000.0000-14500.0000	114.9W	114.9W	15.0	15.0			-19.5	AES2
55)	12250.0000-12750.0000	166.0E	166.0E	15.0	15.0				AES2
56)	11450.0000-11700.0000	60.0W	60.0W	15.0	15.0				AES2
57)	11450.0000-11700.0000	302.0E	302.0E	15.0	15.0				AES2
58)	11450.0000-11700.0000	319.5E	319.5E	15.0	15.0				AES2
59)	11700.0000-12200.0000	101.0W	101.0W	15.0	15.0				AES2
60)	11700.0000-12200.0000	114.9W	114.9W	15.0	15.0				AES2
61)	11700.0000-12200.0000	302.0E	302.0E	15.0	15.0				AES2
62)	11700.0000-12200.0000	315.0E	315.0E	15.0	15.0				AES2
63)	12250.0000-12750.0000	138.0E	138.0E	15.0	15.0				AES2
64)	12250.0000-12750.0000	72.1W	72.1W	15.0	15.0				AES2
65)	12500.0000-12750.0000	37.5W	37.5W	15.0	15.0				AES2
66)	12500.0000-12750.0000	338.0E	338.0E	15.0	15.0				AES2
67)	14000.0000-14500.0000	90.0E	91.0W	12.5	12.5	090.0	270.0	-7.1	AES2
68)	10950.0000-11200.0000	90.0E	91.0W	12.5	12.5	090.0	270.0		AES2
69)	11450.0000-11700.0000	90.0E	91.0W	12.5	12.5	090.0	270.0		AES2
70)	11700.0000-12200.0000	90.0E	91.0W	12.5	12.5	090.0	270.0		AES2
71)	12200.0000-122750.000	90.0E	91.0W	12.5	12.5	090.0	270.0		AES2
72)	14000.0000-14500.0000	180.0E	180.0W	12.5	12.5	090.0	270.0	-7.1	AES2
73)	11200.0000-11450.0000	180.0E	180.0W	12.5	12.5	090.0	270.0		AES2
74)	14000.0000-14500.0000	81.0W	81.0W	05.0	05.0	090.0	270.0		AES2
75)	11700.0000-12200.0000	81.0W	81.0W	05.0	05.0	090.0	270.0		AES2
76)	10700.0000-12750.0000	180.0W	177.0W	05.0	05.0	000.0	000.0		AES2

D) Points of Communications

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

- 1) AES1 to SES-1 (S2807) @ 101 degrees W.L. (U.S.-licensed)
- 2) AES1 to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
- 3) AES1 to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
- 4) AES1 to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
- 5) AES1 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
- 6) AES1 to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
- 7) AES1 to SES-6 (S2870) @ 40.5 degrees W.L. (Netherlands-licensed)
- 8) AES1 to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: AC BidCo LLC

Call Sign: E120106

Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

D) Points of Communications

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

- 9) AES1 to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
- 10) AES1 to EUTELSAT 117WA (S2873) @ 116.8 degrees W.L. (formerly SATMEX 8) (Mexico-licensed)
- 11) AES1 to JCSAT 5A (M063130) @ 132 degrees E.L. (Japan-licensed)
- 12) AES1 to GALAXY 17 (S2715) @ 91 degrees W.L. (U.S.-licensed)
- 13) AES1 to AMC 1 (S2445) @ 130.90 degrees W.L. (U.S.-licensed)
- 14) AES1 to EUTELSAT 115WB (S2938) @ 114.9 degrees W.L. (formerly SATMEX 7) (Mexico-licensed)
- 15) AES1 to Yamal 401 @ 90 degrees E.L. (Russia-licensed)
- 16) AES1 to Yamal 300K (M174162) @ 177 degrees W.L. (Russia-licensed)
- 17) AES1 to JCSAT-2B (M174163) @ 154 degrees E.L. (Japan-licensed)
- 18) AES1 to ASIASAT 7 (M174161) @ 105.5 degrees E.L. (China-licensed)
- 19) AES1 to INTELSAT 907 (S2411) @ 27.5 degrees W.L. (U.S.-licensed)
- 20) AES1 to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
- 21) AES1 to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
- 22) AES1 to AMC 21 (S2676) @ 124.9 degrees W.L. (United Kingdom-licensed)
- 23) AES1 to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
- 24) AES1 to ASTRA 4A @ 4.8 degrees E.L. (Sweden Licensed)
- 25) AES1 to TELSTAR 12V (S2933) @ 15 degrees W.L. (U.S.-licensed)
- 26) AES1 to SES-2 @ 87 ° W.L. (U.S.-licensed satellite)
- 27) AES1 to GALAXY 28 (S2160) @ 89 degrees W.L. (U.S.-licensed)
- 28) AES1 to SES-3 (S2892) @ 103 degrees W.L. (U.S.-licensed)
- 29) AES1 to ARSAT-2 (S2956) @ 81.0 degrees W.L. (Argentina-licensed)
- 30) AES1 to SES-10 (S2950) @ 66.9 degrees W.L. (Colombia-licensed)
- 31) AES1 to AMC-6 (S2347) @ 83degrees W.L. (U.S.-licensed)
- 32) AES1 to OPTUS D2(M221170) @ 152 E.L. (Australia Licensed)
- 33) AES1 to Telstar 18 / Apstar 5 @ 138 degrees E.L. (Non-U.S.-licensed) (SES-MOD-20100803-00977)
- 34) AES1 to EUTELSAT 172B (S3021) @ 172degrees E.L. (US & France licensed)
- 35) AES1 to SES-15 (S2951) @ 129.15 degrees W.L. (United Kingdom-licensed)
- 36) AES1 to ABS-3A (S2987) @ 3° W.L. (Russian Federation / Intersputnik)
- 37) AES1 to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 38) AES1 to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 39) AES1 to SES-14 (S2974)@47.5 degrees W.L. (Brazil & Netherlands - licensed)
- 40) AES1 to ABS-3A (S2987) @ 3.0 W.L. (Russian Licensed)
- 41) AES1 to AMAZONAS 2 (S2793) @ 61° W.L. (Brazil-licensed)
- 42) AES1 to JCSAT-3A @ 128 degrees E.L. (Japan licensed satellite)
- 43) AES1 to ASIASAT 9 @ 122° E.L. (Non-US-Licensed) Operations Outside Region 2 only
- 44) AES1 to APSTAR 6C (M161190) @ 134 degrees E.L. (China-licensed Operations Outside Region 2 only)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: AC BidCo LLC

Call Sign: E120106

Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

D) Points of Communications

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

-
- 45) AES1 to TELSTAR 18 @ 138 E.L. (U.S. Market Access List)
 - 46) AES1 to ANIK F1R (S2674) @ 107.3 degrees W.L. (Canada-licensed)
 - 47) AES2 to SES-1 (S2807) @ 101 degrees W.L. (U.S.-licensed)
 - 48) AES2 to INTELSAT 19 (S2850) @ 166.0 degrees E.L. (U.S.-licensed)
 - 49) AES2 to INTELSAT 14 (S2785) @ 45 degrees W.L. (U.S.-licensed)
 - 50) AES2 to INTELSAT 21 (S2863) @ 58.0 degrees W.L. (U.S.-licensed)
 - 51) AES2 to SES-4 (S2828) @ 22 degrees W.L. (Netherlands-licensed)
 - 52) AES2 to INTELSAT 22 (S2846) @ 72.1 degrees E.L. (U.S.-licensed)
 - 53) AES2 to SES-6 (S2870) @ 40.5 degrees W.L. (Netherlands-licensed)
 - 54) AES2 to TELSTAR 11N (S2357) @ 37.55 degrees W.L. (U.S.-licensed)
 - 55) AES2 to INTELSAT 18 (S2817) @ 180 degrees E.L. (U.S.-licensed)
 - 56) AES2 to EUTELSAT 117WA (S2873) @ 116.8 degrees W.L. (formerly SATMEX 8) (Mexico-licensed)
 - 57) AES2 to GALAXY 17 (S2715) @ 91 degrees W.L. (U.S.-licensed)
 - 58) AES2 to Telstar 18 / Apstar 5 @ 138 degrees E.L. (Non-U.S.-licensed) (SES-MOD-20100803-00977)
 - 59) AES2 to EUTELSAT 115WB (S2938) @ 114.9 degrees W.L. (formerly SATMEX 7) (Mexico-licensed)
 - 60) AES2 to Yamal 401 @ 90 degrees E.L. (Russia-licensed)
 - 61) AES2 to Yamal 300K (M174162) @ 177 degrees W.L. (Russia-licensed)
 - 62) AES2 to JCSAT-2B (M174163) @ 154 degrees E.L. (Japan-licensed)
 - 63) AES2 to ASIASAT 7 (M174161) @ 105.5 degrees E.L. (China-licensed)
 - 64) AES2 to INTELSAT 907 (S2411) @ 27.5 degrees W.L. (U.S.-licensed)
 - 65) AES2 to INTELSAT 29e (S2913) @ 50.0 degrees W.L. (U.S.-licensed)
 - 66) AES2 to INTELSAT 20 (S2847) @ 68.5 degrees E.L. (U.S.-licensed)
 - 67) AES2 to AMC 21 (S2676) @ 124.9 degrees W.L. (United Kingdom-licensed)
 - 68) AES2 to INTELSAT 33e (S2939) @ 60.0 degrees E.L. (U.S.-licensed)
 - 69) AES2 to ASTRA 4A @ 4.8 degrees E.L. (Sweden Licensed)
 - 70) AES2 to TELSTAR 12V (S2933) @ 15 degrees W.L. (U.S.-licensed)
 - 71) AES2 to GALAXY 28 (S2160) @ 89 degrees W.L. (U.S.-licensed)
 - 72) AES2 to SES-3 (S2892) @ 103 degrees W.L. (U.S.-licensed)
 - 73) AES2 to AMC-6 (S2347) @ 83degrees W.L. (U.S.-licensed)
 - 74) AES2 to ARSAT-2 (S2956) @ 81.0 degrees W.L. (Argentina-licensed)
 - 75) AES2 to SES-10 (S2950) @ 66.9 degrees W.L. (Colombia-licensed)
 - 76) AES2 to AMC-4 (S2135)@ 134.9 degrees W.L. (U.S.-licensed)
 - 77) AES2 to OPTUS D2(M221170) @ 152 E.L. (Australia Licensed)
 - 78) AES2 to AMC-6 (S2347) @ 83degrees W.L. (U.S.-licensed)
 - 79) AES2 to SES-15 (S2951) @ 129.15 degrees W.L. (United Kingdom-licensed)
 - 80) AES2 to JCSAT-110A @ 110 E.L. (Japan licensed satellite)



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: AC BidCo LLC

Call Sign: E120106

Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

D) Points of Communications

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

- 81) AES2 to INTELSAT 37e (S2972) @ 18.0 degrees W.L. (U.S.-licensed)
- 82) AES2 to HORIZONS 3 (S2947) satellite @ 169 degrees E.L. (U.S.-licensed)
- 83) AES2 to SES-14 (S2974)@47.5 degrees W.L. (Brazil & Netherlands - licensed)
- 84) AES2 to AMAZONAS 2 (S2793) @ 61° W.L. (Brazil-licensed)
- 85) AES2 to JCSAT-3A @ 128 degrees E.L. (Japan licensed satellite)
- 86) AES2 to APSTAR 6C (M161190) @ 134 degrees E.L. (China-licensed Operations Outside Region 2 only)
- 87) AES2 to ASIASAT 9 @ 122° E.L. (Non-US-Licensed) Operations Outside Region 2 only
- 88) AES2 to TELSTAR 18 @ 138 E.L. (U.S. Market Access List)
- 89) AES2 to ANIK F1R (S2674) @ 107.3 degrees W.L. (Canada-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)
AES1	AES1	1000	0.24	AeroSat	HR6400	0	0 AGL/ 0 AMSL	
Max Gains(s):		29.0 dBi @	14.4700 GHz	31.8 dBi @	11.7000 GHz			
Maximum total input power at antenna flange (Watts) =						35.48		
Maximum aggregate output EIRP for all carriers (dBW) =						44.50		
AES2	AES2	2500	0.74	THINKOM	2KUANTENNA			
Max Gains(s):		36.7 dBi @	14.2500 GHz	35.0 dBi @	11.8500 GHz			
Maximum total input power at antenna flange (Watts) =						26.80		
Maximum aggregate output EIRP for all carriers (dBW) =						51.00		

F) Remote Control Point:

AES1	Systems Operation Center, 111 N CANAL STREET CHICAGO, COOK, IL 60606 8669434662	Call Sign: N/A
AES2	Systems Operation Center, 111 N CANAL STREET CHICAGO, COOK, IL 60606 8669434662	Call Sign: N/A



UNITED STATES OF AMERICA
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G) Antenna Structure marking and lighting requirements:

None unless otherwise specified under Special and General Provisions

H) Special and General Provisions

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

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.

90095 --- The licensee shall comply with any pertinent limits established by the International Telecommunication Union to protect other services allocated internationally.

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.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

H) Special and General Provisions

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

- 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 --- 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.
- 90248 --- Stations authorized herein must not be used to provide air traffic control communications.
- 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)
- 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.
- 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.
- 90536 --- 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-20100805-00992, Call Sign E100089.



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RADIO STATION AUTHORIZATION

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Authorization Type: Modification of License

File Number: SES-MFS-20191112-01456

Non Common Carrier

Grant date: 04/13/2020

Expiration Date: 05/01/2028

H) Special and General Provisions

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

- 90537 --- Operations pursuant to this license must comply with the conditions set forth in the associated space station authorizations for the additional points of communication: SES-14 satellite (Call Sign S2974) (IBFS File No. SAT-PPL-20160918-00093).
- 90540 --- Operation pursuant to this authorization must be in compliance with the terms of coordination agreements between the relevant space station operators 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, ESAAs 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 the licensee demonstrates that such operation will not cause harmful interference to the new co-frequency space station.
- 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.
- 90568 --- 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-20120619-00574 (Call Sign E120106).
- 90569 --- Operations pursuant to this license must comply with the conditions set forth in the associated space station authorizations for the additional points of communication: ANIK F1R (Call Sign S2674) (IBFS File No. SAT-PPL-20050504-00094).
- 900432 --- The applicant's request for a waiver of Section 25.283(c) of the Commission's rules, 47 C.F.R. § 25.283(c), is granted. Section 25.283(c) specifies that space stations must discharge all stored energy sources at end-of-life of the space station. Apstar 6C is a China Academy of Space Technology DFH-4 spacecraft that was launched on May 3, 2018. Applicant states that following orbital insertion, the helium tanks were permanently sealed and cannot be reopened. Applicant states that there are three 50-liter tanks rated at a pressure tolerance of 30 MPa, each containing 1.3 kg of residual helium at a pressure of 6 MPa. This waiver is granted because modification of the spacecraft would present an undue hardship, since compliance with Section 25.283(c) is not achievable except through direct retrieval of spacecraft.



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Non Common Carrier

Grant date: 04/13/2020

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

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