



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION**

RADIO STATION AUTHORIZATION

Name: RigNet SatCom, Inc.

Call Sign: E980235

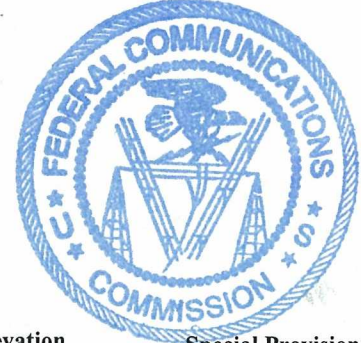
Authorization Type: Modification of License

File Number: SES-MOD-20150611-00354

Non Common Carrier

Grant date: 10/07/2015

Expiration Date: 07/13/2023



Nature of Service: Fixed Satellite Service

Class of Station: Other

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	ESV R-1	1301 FANNIN STREET, SUITE 745 (1.0M, 300 UNITS), CONUS, AOC, POC, GM HOUSTON, HARRIS, TX 77002				NA
2)	ESV R-10	1301 FANNIN STREET, SUITE 745 (1.5M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
3)	ESV R-11	1301 FANNIN STREET, SUITE 745 (2.4M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
4)	ESV R-12	1301 FANNIN STREET, SUITE 745 (2.4M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
5)	ESV R-13	1301 FANNIN STREET, SUITE 745 (2.4M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
6)	ESV R-2	1301 FANNIN STREET, SUITE 745 (1.2M, 150 UNITS) CONUS, AOC, POC, GM HOUSTON, HARRIS, TX 77002				NA



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#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
7)	ESV R-3	1301 FANNIN STREET, SUITE 745 (2.4M, 150 UNITS) CONUS, AOC, POC, GM HOUSTON, HARRIS, TX 77002				NA
8)	ESV R-4	1301 FANNIN STREET, SUITE 745 (1.0M, 150 UNITS), CONUS, AOC, POC, GM HOUSTON, HARRIS, TX 77002				NA
9)	ESV R-5	1301 FANNIN STREET, SUITE 745 (2.4M, 50 UNITS) CONUS, AOC, POC, GM HOUSTON, HARRIS, TX 70583				NA
10)	ESV R-6	1301 FANNIN STREET, SUITE 745 (1.03M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
11)	ESV R-7	1301 FANNIN STREET, SUITE 745 (1.25M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
12)	ESV R-8	1301 FANNIN STREET, SUITE 745 (1.03M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA
13)	ESV R-9	1301 FANNIN STREET, SUITE 745 (0.83M, 300 UNITS) CONUS, AOC, POC, GM Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209				NA



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A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	NAD	Special Provisions (Refer to Section H)
14)	HUB 4 (3.8)	1701 W. WILLOW STREET SCOTT, LAFAYETTE, LA 70582	30°14'37.9"N	92°3'7.0"W	11.6	83	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
15)	HUB-2 (6.1M)	1710 W. WILLOW ST. (6.1M. HUB) SCOTT, LAFAYETTE, LA 70583	30°14'36.7"N	92°3'6.4"W	11.6	83	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
16)	HUB-3 (3.8 M)	1710 W. WILLOW ST. (3.8M, BACK-UP HUB) SCOTT, LAFAYETTE, LA 70583	30°14'36.7"N	92°3'6.4"W	11.6	83	
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
17)	REMOTE 1	1301 FANNIN STREET, SUITE 745 (2.4M, 300 UNITS) CONUS, AOC, POC, GM					NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
18)	REMOTE 3	1301 FANNIN STREET, SUITE 745 (2.4M, 300 UNITS) CONUS, AOC, POC, GM					NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					
19)	REMOTE 4	1301 FANNIN STREET, SUITE 745 (1.2M, 300 UNITS) CONUS, AOC, POC, GM					NA
		Licensee certifies antenna(s) comply with gain patterns specified in Section 25.209					



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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 July 13, 2008 (3 AM Eastern Standard Time) and ending July 13, 2023 (3 AM Eastern Standard Time) . The required date of completion of construction and commencement of operation is October 7, 2016 (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	154KG7W	Tx	39.66	23.79	ESV R-1		QPSK, DATA
2)	14000.0000-14500.0000	H,V	465KG7D	Tx	43.46	22.81	ESV R-1		QPSK, DATA
3)	14000.0000-14500.0000	H,V	58K2G7D	Tx	34.43	22.80	ESV R-1		QPSK, DATA
4)	14000.0000-14500.0000	H,V	619KG7W	Tx	45.68	23.79	ESV R-1		QPSK, DATA
5)	11700.0000-12200.0000	H,V	154KG7W	Rx			ESV R-1		QPSK, DATA
6)	11700.0000-12200.0000	H,V	465KG7D	Rx			ESV R-1		QPSK, DATA
7)	11700.0000-12200.0000	H,V	58K2G7D	Rx			ESV R-1		QPSK, DATA
8)	11700.0000-12200.0000	H,V	619KG7W	Rx			ESV R-1		QPSK, DATA
9)	14000.0000-14500.0000	H,V	128KG7W	Tx	45.20	30.10	ESV R-10		DIGITAL
10)	14000.0000-14500.0000	H,V	4M00G7W	Tx	60.10	30.10	ESV R-10		DIGITAL
11)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-10		DIGITAL
12)	14000.0000-14500.0000	H,V	11M5G7W	Tx	65.50	30.91	ESV R-11		DIGITAL
13)	14000.0000-14500.0000	H,V	64K0G7W	Tx	43.00	30.91	ESV R-11		DIGITAL
14)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-11		DIGITAL
15)	14000.0000-14500.0000	H,V	14M0G7W	Tx	66.30	30.86	ESV R-12		DIGITAL
16)	14000.0000-14500.0000	H,V	64K0G7W	Tx	42.90	30.86	ESV R-12		DIGITAL
17)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-12		DIGITAL
18)	5925.0000-6425.0000	H,V	128KG7W	Tx	43.70	28.65	ESV R-13		DIGITAL
19)	5925.0000-6425.0000	H,V	7M20G7W	Tx	61.20	28.65	ESV R-13		DIGITAL



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B) Particulars of Operations

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

#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
20)	3700.0000-4200.0000	H, V	10M7G7W	Rx			ESV R-13		DIGITAL
21)	14000.0000-14500.0000	H, V	1M40G7D	Tx	48.69	23.24	ESV R-2		QPSK, DATA
22)	14000.0000-14500.0000	H, V	309KG7W	Tx	42.59	23.70	ESV R-2		QPSK, DATA
23)	14000.0000-14500.0000	H, V	58K2G7D	Tx	34.57	22.94	ESV R-2		QPSK, DATA
24)	14000.0000-14500.0000	H, V	928KG7W	Tx	47.36	23.70	ESV R-2		QPSK, DATA
25)	11700.0000-12200.0000	H, V	1M40G7D	Rx			ESV R-2		QPSK, DATA
26)	11700.0000-12200.0000	H, V	309KG7W	Rx			ESV R-2		QPSK, DATA
27)	11700.0000-12200.0000	H, V	928KG7W	Rx			ESV R-2		QPSK, DATA
28)	11700.0000-12200.0000	H, V	58K2G7D	Rx	0.00		ESV R-2		QPSK, DATA
29)	14000.0000-14500.0000	H, V	116KG7D	Tx	38.50	23.86	ESV R-3		QPSK, DATA
30)	14000.0000-14500.0000	H, V	1M40G7D	Tx	49.32	23.87	ESV R-3		QPSK, DATA
31)	14000.0000-14500.0000	H, V	2M06G7W	Tx	52.76	25.65	ESV R-3		QPSK, DATA
32)	14000.0000-14500.0000	H, V	309KG7W	Tx	43.73	24.85	ESV R-3		QPSK, DATA
33)	11700.0000-12200.0000	H, V	116KG7D	Rx			ESV R-3		QPSK, DATA
34)	11700.0000-12200.0000	H, V	1M40G7D	Rx			ESV R-3		QPSK, DATA
35)	11700.0000-12200.0000	H, V	2M06G7W	Rx			ESV R-3		QPSK, DATA
36)	11700.0000-12200.0000	H, V	309KG7W	Rx			ESV R-3		QPSK, DATA
37)	14000.0000-14500.0000	H, V	154KG7W	Tx	39.66	23.79	ESV R-4		QPSK, DATA
38)	14000.0000-14500.0000	H, V	1M40G7D	Tx	47.49	22.04	ESV R-4		QPSK, DATA
39)	14000.0000-14500.0000	H, V	58K2G7D	Tx	34.43	22.80	ESV R-4		QPSK, DATA
40)	14000.0000-14500.0000	H, V	928KG7W	Tx	47.44	23.79	ESV R-4		QPSK, DATA
41)	11700.0000-12200.0000	H, V	154KG7W	Rx			ESV R-4		QPSK, DATA
42)	11700.0000-12200.0000	H, V	1M40G7D	Rx			ESV R-4		QPSK, DATA
43)	11700.0000-12200.0000	H, V	58K2G7D	Rx			ESV R-4		QPSK, DATA



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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
44)	11700.0000-12200.0000	H,V	928KG7W	Rx	0.00		ESV R-4		QPSK, DATA
45)	5925.0000-6425.0000	H,V	1M03G7W	Tx	56.50	32.40	ESV R-5		QPSK, DATA
46)	5925.0000-6425.0000	H,V	2M05G7W	Tx	56.50	29.40	ESV R-5		QPSK, DATA
47)	5925.0000-6425.0000	H,V	2M73G7W	Tx	56.50	28.10	ESV R-5		QPSK, DATA
48)	5925.0000-6425.0000	H,V	3M41G7W	Tx	56.50	27.20	ESV R-5		QPSK, DATA
49)	3700.0000-4200.0000	H,V	1M03G7W	Rx			ESV R-5		QPSK, DATA
50)	3700.0000-4200.0000	H,V	2M05G7W	Rx			ESV R-5		QPSK, DATA
51)	3700.0000-4200.0000	H,V	2M73G7W	Rx			ESV R-5		QPSK, DATA
52)	3700.0000-4200.0000	H,V	3M41G7W	Rx			ESV R-5		QPSK, DATA
53)	14000.0000-14500.0000	H,V	128KG7W	Tx	39.90	24.82	ESV R-6		DIGITAL
54)	14000.0000-14500.0000	H,V	2M63G7W	Tx	53.00	24.82	ESV R-6		DIGITAL
55)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-6		DIGITAL
56)	14000.0000-14500.0000	H,V	128KG7W	Tx	43.70	28.62	ESV R-7		DIGITAL
57)	14000.0000-14500.0000	H,V	1M70G7W	Tx	54.90	28.62	ESV R-7		DIGITAL
58)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-7		DIGITAL
59)	14000.0000-14500.0000	H,V	128KG7W	Tx	38.60	23.59	ESV R-8		DIGITAL
60)	14000.0000-14500.0000	H,V	1M39G7W	Tx	49.00	23.59	ESV R-8		DIGITAL
61)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-8		DIGITAL
62)	14000.0000-14500.0000	H,V	128KG7W	Tx	36.20	21.13	ESV R-9		DIGITAL
63)	14000.0000-14500.0000	H,V	1M90G7W	Tx	47.90	21.13	ESV R-9		DIGITAL
64)	11700.0000-12200.0000	H,V	10M7G7W	Rx			ESV R-9		DIGITAL
65)	14000.0000-14500.0000	H,V	100KG7D	Tx	53.80	39.80	HUB-2 (6.1)		QPSK, DATA
66)	14000.0000-14500.0000	H,V	154KG7W	Tx	44.63	28.75	HUB-2 (6.1)		QPSK, DATA
67)	14000.0000-14500.0000	H,V	1M40G7D	Tx	65.50	39.80	HUB-2 (6.1)		QPSK, DATA



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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
68)	14000.0000-14500.0000	H,V	200KG7D	Tx	56.80	39.80	HUB-2 (6.1)		BPSK, DATA
69)	14000.0000-14500.0000	H,V	2M40G7D	Tx	65.80	37.80	HUB-2 (6.1)		QPSK, DATA
70)	14000.0000-14500.0000	H,V	2M80G7D	Tx	65.80	37.40	HUB-2 (6.1)		BPSK, DATA
71)	14000.0000-14500.0000	H,V	4M67G7W	Tx	59.88	29.12	HUB-2 (6.1)		QPSK, DATA
72)	14000.0000-14500.0000	H,V	4M90G7D	Tx	65.80	34.90	HUB-2 (6.1)		BPSK, DATA
73)	14000.0000-14500.0000	H,V	58K2G7D	Tx	39.76	28.13	HUB-2 (6.1)		QPSK, DATA
74)	14000.0000-14500.0000	H,V	5M57G7D	Tx	59.58	28.13	HUB-2 (6.1)		QPSK, DATA
75)	11700.0000-12200.0000	H,V	100KG7D	Rx			HUB-2 (6.1)		BPSK, DATA
76)	11700.0000-12200.0000	H,V	154KG7W	Rx			HUB-2 (6.1)		QPSK, DATA
77)	11700.0000-12200.0000	H,V	1M40G7D	Rx			HUB-2 (6.1)		QPSK, DATA
78)	11700.0000-12200.0000	H,V	200KG7D	Rx			HUB-2 (6.1)		BPSK, DATA
79)	11700.0000-12200.0000	H,V	2M40G7D	Rx			HUB-2 (6.1)		QPSK, DATA
80)	11700.0000-12200.0000	H,V	2M80G7D	Rx			HUB-2 (6.1)		BPSK, DATA
81)	11700.0000-12200.0000	H,V	4M67G7W	Rx			HUB-2 (6.1)		QPSK, DATA
82)	11700.0000-12200.0000	H,V	4M90G7D	Rx			HUB-2 (6.1)		BPSK, DATA
83)	11700.0000-12200.0000	H,V	58K2G7D	Rx			HUB-2 (6.1)		QPSK, DATA
84)	11700.0000-12200.0000	H,V	5M57G7D	Rx			HUB-2 (6.1)		QPSK, DATA
85)	14000.0000-14500.0000	H,V	100KG7D	Tx	53.20	39.20	HUB-3 (3.8)		QPSK, DATA
86)	14000.0000-14500.0000	H,V	1M40G7D	Tx	56.20	39.20	HUB-3 (3.8)		QPSK, DATA
87)	14000.0000-14500.0000	H,V	200KG7D	Tx	65.20	39.20	HUB-3 (3.8)		BPSK, DATA
88)	14000.0000-14500.0000	H,V	2M40G7D	Tx	65.80	37.80	HUB-3 (3.8)		QPSK, DATA
89)	14000.0000-14500.0000	H,V	2M80G7D	Tx	65.80	37.40	HUB-3 (3.8)		BPSK, DATA
90)	14000.0000-14500.0000	H,V	4M90G7D	Tx	65.80	34.90	HUB-3 (3.8)		BPSK, DATA
91)	11700.0000-12200.0000	H,V	100KG7D	Rx			HUB-3 (3.8)		DIGITAL DATA



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B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.
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 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
92)	11700.0000-12200.0000	H, V	1M40G7D	Rx			HUB-3 (3.8)		DIGITAL DATA
93)	11700.0000-12200.0000	H, V	200KG7D	Rx			HUB-3 (3.8)		DIGITAL DATA
94)	11700.0000-12200.0000	H, V	2M40G7D	Rx			HUB-3 (3.8)		DIGITAL DATA
95)	11700.0000-12200.0000	H, V	2M80G7D	Rx			HUB-3 (3.8)		DIGITAL DATA
96)	11700.0000-12200.0000	H, V	4M90G7D	Rx			HUB-3 (3.8)		DIGITAL DATA
97)	14000.0000-14500.0000	H, V	100KG7D	Tx	53.20	39.20	HUB-4 (3.8)		DATA
98)	14000.0000-14500.0000	H, V	1M40G7D	Tx	56.20	39.20	HUB-4 (3.8)		DATA
99)	14000.0000-14500.0000	H, V	200KG7D	Tx	65.20	39.20	HUB-4 (3.8)		DATA
100)	14000.0000-14500.0000	H, V	2M40G7D	Tx	65.80	37.80	HUB-4 (3.8)		DATA
101)	14000.0000-14500.0000	H, V	2M80G7D	Tx	65.80	37.40	HUB-4 (3.8)		DATA
102)	14000.0000-14500.0000	H, V	4M90G7D	Tx	65.80	34.90	HUB-4 (3.8)		DATA
103)	11700.0000-12200.0000	H, V	100KG7D	Rx			HUB-4 (3.8)		DATA
104)	11700.0000-12200.0000	H, V	1M40G7D	Rx			HUB-4 (3.8)		DATA
105)	11700.0000-12200.0000	H, V	200KG7D	Rx			HUB-4 (3.8)		DATA
106)	11700.0000-12200.0000	H, V	2M40G7D	Rx			HUB-4 (3.8)		DATA
107)	11700.0000-12200.0000	H, V	2M80G7D	Rx			HUB-4 (3.8)		DATA
108)	11700.0000-12200.0000	H, V	4M90G7D	Rx			HUB-4 (3.8)		DATA
109)	14000.0000-14500.0000	H, V	1M40G7D	Tx	52.20	26.80	REMOTE 1		QPSK, Data
110)	14000.0000-14500.0000	H, V	200KG7D	Tx	52.20	35.20	REMOTE 1		BPSK, Data
111)	14000.0000-14500.0000	H, V	2M40G7D	Tx	52.20	24.50	REMOTE 1		QPSK, Data
112)	14000.0000-14500.0000	H, V	2M80G7D	Tx	52.20	23.70	REMOTE 1		BPSK, Data
113)	14000.0000-14500.0000	H, V	4M90G7D	Tx	52.20	21.30	REMOTE 1		BPSK, Data
114)	11700.0000-12200.0000	H, V	100KG7D	Rx			REMOTE 1		DIGITAL DATA
115)	11700.0000-12200.0000	H, V	1M40G7D	Rx			REMOTE 1		DIGITAL DATA



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: RigNet SatCom, Inc.

Call Sign: E980235

Authorization Type: Modification of License

File Number: SES-MOD-20150611-00354

Non Common Carrier

Grant date: 10/07/2015

Expiration Date: 07/13/2023

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
116)	11700.0000-12200.0000	H,V	200KG7D	Rx			REMOTE 1		DIGITAL DATA
117)	11700.0000-12200.0000	H,V	2M40G7D	Rx			REMOTE 1		DIGITAL DATA
118)	11700.0000-12200.0000	H,V	2M80G7D	Rx			REMOTE 1		DIGITAL DATA
119)	11700.0000-12200.0000	H,V	4M90G7D	Rx			REMOTE 1		DIGITAL DATA
120)	14000.0000-14500.0000	H,V	100KG7D	Tx	39.80	26.20	REMOTE 3		QPSK, DATA
121)	14000.0000-14500.0000	H,V	200KG7D	Tx	42.80	26.20	REMOTE 3		QPSK, DATA
122)	14000.0000-14500.0000	H,V	400KG7D	Tx	45.80	26.20	REMOTE 3		QPSK, DATA
123)	14000.0000-14500.0000	H,V	50K0G7D	Tx	36.80	26.20	REMOTE 3		QPSK, DATA
124)	11700.0000-12200.0000	H,V	100KG7D	Rx			REMOTE 3		QPSK, DATA
125)	11700.0000-12200.0000	H,V	200KG7D	Rx			REMOTE 3		QPSK, DATA
126)	11700.0000-12200.0000	H,V	400KG7D	Rx			REMOTE 3		QPSK, DATA
127)	11700.0000-12200.0000	H,V	50K0G7D	Rx			REMOTE 3		QPSK, DATA
128)	14000.0000-14500.0000	H,V	100KG7D	Tx	39.80	26.20	REMOTE 4		QPSK, DATA
129)	14000.0000-14500.0000	H,V	200KG7D	Tx	42.80	26.20	REMOTE 4		QPSK, DATA
130)	14000.0000-14500.0000	H,V	400KG7D	Tx	45.80	26.20	REMOTE 4		QPSK, DATA
131)	14000.0000-14500.0000	H,V	50K0G7D	Tx	36.80	26.20	REMOTE 4		QPSK, DATAQPSK, DATA
132)	11700.0000-12200.0000	H,V	100KG7D	Rx			REMOTE 4		QPSK, DATA
133)	11700.0000-12200.0000	H,V	200KG7D	Rx			REMOTE 4		QPSK, DATA
134)	11700.0000-12200.0000	H,V	400KG7D	Rx			REMOTE 4		QPSK, DATA
135)	11700.0000-12200.0000	H,V	50K0G7D	Rx			REMOTE 4		QPSK, DATA



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

Name: RigNet SatCom, Inc.

Call Sign: E980235

Authorization Type: Modification of License

File Number: SES-MOD-20150611-00354

Non Common Carrier

Grant date: 10/07/2015

Expiration Date: 07/13/2023

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	43.0W	143.0W	05.0	05.0			-0.3	REMOTE 1
2)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				REMOTE 1
3)	11700.0000-12200.0000	43.0W	143.0W	15.0	15.0				REMOTE 4
4)	14000.0000-14500.0000	43.0W	143.0W	15.0	15.0			-10.8	REMOTE 4
5)	11700.0000-12200.0000	43.0W	143.0W	08.0	08.0				REMOTE 3
6)	14000.0000-14500.0000	43.0W	143.0W	08.0	08.0			-8.4	REMOTE 3
7)	14000.0000-14500.0000	43.0W	143.0W	26.7	25.1	113.6	247.8	-17	HUB-2 (6.1)
8)	11700.0000-12200.0000	43.0W	143.0W	26.7	25.1	113.6	247.8		HUB-2 (6.1)
9)	5925.0000-6425.0000	32.0W	139.0W	18.9	29.7	104.6	248.0		ESV R-5
10)	3700.0000-4200.0000	32.0W	139.0W	18.9	29.7	104.6	248.0		ESV R-5
11)	11700.0000-12200.0000	43.0W	143.0W	15.0	15.0				ESV R-4
12)	14000.0000-14500.0000	43.0W	143.0W	15.0	15.0			-13.04	ESV R-4
13)	14000.0000-14500.0000	43.0W	143.0W	26.7	25.1	113.6	247.8	-17	HUB-3 (3.8)
14)	11700.0000-12200.0000	43.0W	143.0W	26.7	25.1	113.6	247.8		HUB-3 (3.8)
15)	11700.0000-12200.0000	43.0W	143.0W	15.0	15.0				ESV R-1
16)	14000.0000-14500.0000	43.0W	143.0W	15.0	15.0			-12.79	ESV R-1
17)	11700.0000-12200.0000	43.0W	143.0W	15.0	15.0				ESV R-2
18)	14000.0000-14500.0000	43.0W	143.0W	15.0	15.0			-12.7	ESV R-2
19)	11700.0000-12200.0000	43.0W	143.0W	15.0	15.0				ESV R-3
20)	14000.0000-14500.0000	43.0W	143.0W	15.0	15.0			-10.65	ESV R-3
21)	14000.0000-14500.0000	43.0W	143.0W	26.7	25.1	113.6	247.8	-17	HUB-4 (3.8)
22)	11700.0000-12200.0000		NGSO	26.7	25.1	113.6	247.8		HUB-4 (3.8)
23)	14000.0000-14500.0000	43.0W	143.0W	05.0	05.0			-4.94	ESV R-9
24)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				ESV R-9
25)	14000.0000-14500.0000	43.0W	143.0W	05.0	05.0			-0.47	ESV R-10
26)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				ESV R-10
27)	14000.0000-14500.0000			05.0	05.0			-3.01	ESV R-11
28)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				ESV R-11
29)	14000.0000-14500.0000	43.0W	143.0W	05.0	05.0			-3.91	ESV R-12
30)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				ESV R-12
31)	5925.0000-6425.0000	43.0W	143.0W	11.0	11.0			-7.09	ESV R-13
32)	3700.0000-4200.0000	43.0W	143.0W	11.0	11.0				ESV R-13
33)	14000.0000-14500.0000	43.0W	143.0W	05.0	05.0			-3.28	ESV R-8
34)	11700.0000-12200.0000	43.0W	143.0W	05.0	05.0				ESV R-8



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: RigNet SatCom, Inc. Call Sign: E980235
Authorization Type: Modification of License File Number: SES-MOD-20150611-00354
Non Common Carrier Grant date: 10/07/2015 Expiration Date: 07/13/2023

C) Frequency Coordination Limits

Table with columns: #, Frequency Limits (MHz), Satellite Arc (Deg. Long.), Elevation (Degrees), Azimuth (Degrees), Max EIRP Density toward Horizon (dBW/4kHz), Associated Antenna(s). Rows 35-38.

D) Points of Communications

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

- 1) REMOTE 1 to Permitted Space Station List
2) REMOTE 4 to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
3) REMOTE 4 to AMC-4 @ 101 degrees W.L. (U.S.-licensed domestic satellite)
4) REMOTE 4 to Permitted Space Station List
5) REMOTE 3 to New Skies Satellite, N.V. 7 (S2463) @ 20 W.L. (Netherlands-licensed)
6) REMOTE 3 to AMC-4 @ 101 degrees W.L. (U.S.-licensed domestic satellite)
7) REMOTE 3 to Permitted Space Station List
8) HUB-2 (6.1M) to Permitted Space Station List
9) ESV R-5 to Permitted Space Station List
10) ESV R-4 to Permitted Space Station List
11) HUB-3 (3.8 M) to Permitted Space Station List
12) ESV R-1 to Permitted Space Station List
13) ESV R-2 to Permitted Space Station List
14) ESV R-3 to Permitted Space Station List
15) HUB 4 (3.8) to Permitted Space Station List
16) ESV R-9 to Permitted Space Station List
17) ESV R-10 to Permitted Space Station List
18) ESV R-11 to Permitted Space Station List
19) ESV R-12 to Permitted Space Station List
20) ESV R-13 to Permitted Space Station List
21) ESV R-8 to Permitted Space Station List
22) ESV R-6 to Permitted Space Station List
23) ESV R-7 to Permitted Space Station List



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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Non Common Carrier

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Expiration Date: 07/13/2023

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)
ESV R-1	ESV R-1	300	1	SEATEL	4003			
Max Gains(s):		39.6 dBi @	11.9500 GHz	41.7 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						2.56		
Maximum aggregate output EIRP for all carriers (dBW) =						45.78		
ESV R-10	ESV R-10	300	1.5	SEATEL	6012			
Max Gains(s):		44.0 dBi @	12.5000 GHz	45.1 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						33.00		
Maximum aggregate output EIRP for all carriers (dBW) =						60.29		
ESV R-11	ESV R-11	300	2.4	SEATEL	9797			
Max Gains(s):		47.8 dBi @	11.8500 GHz	48.5 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						56.00		
Maximum aggregate output EIRP for all carriers (dBW) =						65.93		
ESV R-12	ESV R-12	300	2.4	SEATEL	9711 KUBAND			
Max Gains(s):		47.3 dBi @	11.7000 GHz	49.3 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						56.00		
Maximum aggregate output EIRP for all carriers (dBW) =						66.78		
ESV R-13	ESV R-13	300	2.4	SEATEL	9711CBAND			
Max Gains(s):		38.5 dBi @	3.9500 GHz	41.7 dBi @	6.1800 GHz			
Maximum total input power at antenna flange (Watts) =						92.00		
Maximum aggregate output EIRP for all carriers (dBW) =						61.34		
ESV R-2	ESV R-2	150	1.2	SEATEL	4996			
Max Gains(s):		39.6 dBi @	11.9500 GHz	43.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						6.00		
Maximum aggregate output EIRP for all carriers (dBW) =						50.98		



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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Non Common Carrier

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Expiration Date: 07/13/2023

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)
ESV R-3	ESV R-3	150	2.4	SEATEL	9797-32			
Max Gains(s):		47.5 dBi @	11.9500 GHz	49.3 dBi @	14.4500 GHz			
Maximum total input power at antenna flange (Watts) =						8.00		
Maximum aggregate output EIRP for all carriers (dBW) =						58.30		
ESV R-4	ESV R-4	150	1	SEATEL	4006			
Max Gains(s):		39.6 dBi @	11.9500 GHz	41.7 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						4.00		
Maximum aggregate output EIRP for all carriers (dBW) =						47.72		
ESV R-5	ESV R-5	50	2.4	SEATEL	9797			
Max Gains(s):		38.5 dBi @	3.9500 GHz	41.7 dBi @	6.1800 GHz			
Maximum total input power at antenna flange (Watts) =						30.00		
Maximum aggregate output EIRP for all carriers (dBW) =						56.50		
ESV R-6	ESV R-6	300	1.03	INTELLIAN	V100			
Max Gains(s):		39.4 dBi @	11.7250 GHz	41.6 dBi @	14.1250 GHz			
Maximum total input power at antenna flange (Watts) =						16.00		
Maximum aggregate output EIRP for all carriers (dBW) =						53.64		
ESV R-7	ESV R-7	300	1.25	INTELLIAN	V130			
Max Gains(s):		42.1 dBi @	11.8500 GHz	43.2 dBi @	14.1250 GHz			
Maximum total input power at antenna flange (Watts) =						16.00		
Maximum aggregate output EIRP for all carriers (dBW) =						55.24		
ESV R-8	ESV R-8	300	1.03	COBHAM	SAILOR 900B			
Max Gains(s):		40.1 dBi @	11.7000 GHz	41.4 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						8.00		
Maximum aggregate output EIRP for all carriers (dBW) =						49.00		



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

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Call Sign: E980235

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File Number: SES-MOD-20150611-00354

Non Common Carrier

Grant date: 10/07/2015

Expiration Date: 07/13/2023

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)
ESV R-9	ESV R-9	300	0.83	COBHAM	SAILOR 800			
Max Gains(s):		38.8 dBi @	11.7000 GHz	40.6 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						6.00		
Maximum aggregate output EIRP for all carriers (dBW) =						48.10		
HUB-2	(6.1M HUB-2(6.1)	1	6.1	VERTEX	6.1 KPK	11.6	7 AGL/ 18.7 AMSL	
Max Gains(s):		56.0 dBi @	12.0000 GHz	57.0 dBi @	14.0000 GHz			
Maximum total input power at antenna flange (Watts) =						68.00		
Maximum aggregate output EIRP for all carriers (dBW) =						75.70		
HUB-3	(3.8 M HUB-3(3.8)	1	3.8	PRODELIN	1383	11.6	6 AGL/ 17.6 AMSL	
Max Gains(s):		51.7 dBi @	11.9500 GHz	53.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						43.06		
Maximum aggregate output EIRP for all carriers (dBW) =						69.54		
HUB 4	(3.8) HUB-4(3.8)	1	3.8	PRODELIN	1383	11.6	6 AGL/ 17.6 AMSL	
Max Gains(s):		51.7 dBi @	11.9500 GHz	53.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						43.06		
Maximum aggregate output EIRP for all carriers (dBW) =						69.54		
REMOTE 1	REMOTE 1	300	2.4	PRODELIN	1251		0 AGL/ 0 AMSL	2325
Max Gains(s):		47.6 dBi @	11.9500 GHz	49.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						2.00		
Maximum aggregate output EIRP for all carriers (dBW) =						52.21		
REMOTE 3	REMOTE 3	300	2.4	CHANNEL MASTER	243			
Max Gains(s):		47.6 dBi @	11.9500 GHz	49.3 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						2.00		
Maximum aggregate output EIRP for all carriers (dBW) =						52.30		



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
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E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
REMOTE 4	REMOTE 4	300	1.2	PRODELIN	1123			
Max Gains(s):		41.7 dBi @	11.9500 GHz	43.2 dBi @	14.2500 GHz			
Maximum total input power at antenna flange (Watts) =						4.00		
Maximum aggregate output EIRP for all carriers (dBW) =						49.20		

F) Remote Control Point:

ESV R-1	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-10	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-11	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-12	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-13	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-2	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
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F) Remote Control Point:

ESV R-3	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-4	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-5	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-6	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-7	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-8	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
ESV R-9	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
REMOTE 1	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235
REMOTE 3	1301 FANNIN STREET, SUITE 745 HOUSTON, HARRIS, TX 77002 1-281-674-0130	Call Sign: E980235



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION

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Call Sign: E980235

Authorization Type: Modification of License

File Number: SES-MOD-20150611-00354

Non Common Carrier

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F) Remote Control Point:

REMOTE 4 1301 FANNIN STREET, SUITE 745
HOUSTON, HARRIS, TX 77002
1-281-674-0130

Call Sign: E980235

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:

105 --- Subject to Rule Making: This license is subject to the outcome of any future rule making concerning ESV operations. Grant of this authorization shall not prejudice the outcome of any rulemaking.

158 --- Regarding the VSAT network, the licensee must establish a point of contact for its communications network at which records of the location and frequency use of each small antenna will be maintained in order to effectively protect its receiving sites from licensed stations in the local television transmission service.

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

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

2010 --- This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.

2068 --- The use of these small diameter earth station facilities is authorized pursuant to the Commission's Declaratory Order in Routine Licensing of Large Networks of Small Antenna Earth Stations Operating in the 12/14 GHz Frequency Bands released April 9, 1986.

2300 --- Authority is granted to operate this station by remote control provided that: (1) the parameters of the transmissions of this station monitored at the remote control point, and the operational functions sufficient to ensure that the operations of this station are in full compliance with the station authorization at all times; (2) upon detection by the grantee, or upon notification from the Commission, of a deviation of the operation of this station, transmissions shall be immediately suspended until the deviation is corrected, except that transmissions concerning the immediate safety of life or property may be conducted for the duration of such emergency; and (3) the grantee shall have available, at all times, the technical personnel necessary to perform the technical servicing and maintenance of this station expeditiously. See also 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
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Expiration Date: 07/13/2023

H) Special and General Provisions

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

- 2325 --- Antennas and all antenna supporting structures used under this authorization shall not exceed 20 feet in height.
- 2916 --- Transmitter(s) must be turned off during antenna maintenance to ensure compliance with the FCC-specified safety guidelines for human exposure to radiofrequency radiation in the region between the antenna feed and the reflector. Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 2939 --- Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation. In addition, each licensee must file a certification once the network is put into operation.
- 3219 --- All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the Commission's radiofrequency (RF) exposure guidelines, pursuant to Section 1.1307(b)(1) through (b)(3) of the Commission's rules, or if not in compliance, file an Environmental Assessment (EA) as specified in Section 1.1311. See 47 CFR § 1.1307 (b) (5).
- 3465 --- This authorization is subject to the policies adopted in the Report and Order, "Amendment of the Commission's Regulatory Policies to allow Non-US-Licensed Space Stations to provide Domestic and International Satellite Services in the United States," IB Docket 96-111, FCC 97-399 (Released November 26, 1997). (DISCO II)
- 5208 --- The licensee shall take all necessary measures to ensure that the antenna 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 wherever such exposures might occur. 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.
- 5216 --- All operations shall be on a non-common carrier basis.
- 90013 --- The licensee shall not operate in the band 14.0-14.2 GHz within 125 km of the NASA TDRSS facilities on Guam (located at latitude 13°36'55" N, longitude 144°51'22" E) or White Sands, New Mexico (located at latitude 32°20'59" N, longitude 106°36'31" W and latitude 32°32'40" N, longitude 106°36'48" W), or any future TDRSS facility NTIA notifies to the FCC, unless and until the licensee enters into an agreement with NASA that NTIA has approved. The licensee must conform its operations to the terms of any coordination agreement with the NASA and must file a copy of the agreement with the Commission within 30 days of execution.



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

RADIO STATION AUTHORIZATION

Name: RigNet SatCom, Inc.

Call Sign: E980235

Authorization Type: Modification of License

File Number: SES-MOD-20150611-00354

Non Common Carrier

Grant date: 10/07/2015

Expiration Date: 07/13/2023

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.