

19700 Janelia Farm Boulevard

Ashburn, VA 20147

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COMSEARCH®



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February 12, 2015

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Re: RigNet SatCom, Inc.
GoMex ENSCO DS5, Gulf of Mexico
C-Band, Transmit-Receive Earth Station
Job Number: 150212COMSJC01

***** EXPEDITED FREQUENCY COORDINATION NOTICE *****
***** RESPONSE REQUESTED BY FEBRUARY 24, 2015 *****

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached expedited coordination data on behalf of RigNet SatCom, Inc., 1710 West Willow Street, Scott, Louisiana 70583 for a proposed C-band, transmit/receive earth station to be located on an oil platform designated GoMex ENSCO DS5, in the Gulf of Mexico.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that have not been resolved, please contact Comsearch by February 24, 2015.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Jeffrey E. Cowles
Engineer III, Telecommunications
jcowles@comsearch.com

Enclosure(s)

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Date: 02/12/2015
Job Number: 150212COMSJC01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code RIGNET
Licensee Name RigNet SatCom, Inc.

Site Information**GoMex ENSCO DS5, GULF of MEXICO**

Venue Name
Latitude (NAD 83) 28° 18' 0.0" N
Longitude (NAD 83) 88° 6' 0.0" W
Climate Zone B
Rain Zone 1
Ground Elevation (AMSL) 0.0 m / 0.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 18° W to 139° West Longitude
Azimuth Range 99.7° to 248.9°
Corresponding Elevation Angles 8.8° / 25.9°
Antenna Centerline (AGL) 30.48 m / 100.0 ft

Antenna Information

Manufacturer Sea Tel
Model 9797
Gain / Diameter 38.5 dBi / 2.4 m
3-dB / 15-dB Beamwidth 2.04° / 3.80°

Transmit

Sea Tel
9797
41.7 dBi / 2.4 m
1.41° / 2.64°

341KG7W to 682KG7W

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-11.0 -11.0
13.0 13.0

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)
(dBW)

30.7 30.7
54.7 54.7
50.0 53.0

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-154.0 dBW/4 kHz 20%
-131.0 dBW/4 kHz 0.0025%

Frequency Information

Emission / Frequency Range (MHz)

Receive 4.0 GHz

341KG7W - 682KG7W / 3700.0 - 4200.0

Transmit 6.1 GHz

341KG7W - 682KG7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 711.0 km / 441.7 mi
Precipitation Scatter Contour Radius 644.2 km / 400.3 mi

262.9 km / 163.3 mi
100.0 km / 62.1 mi

COMSEARCH**Earth Station Data Sheet**

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Coordination Values**GoMex ENSCO DS5, GM**

Licensee Name	RigNet SatCom, Inc.			
Latitude (NAD 83)	28° 18' 0.0" N			
Longitude (NAD 83)	88° 6' 0.0" W			
Ground Elevation (AMSL)	0.0 m / 0.0 ft			
Antenna Centerline (AGL)	30.48 m / 100.0 ft			
Antenna Model	Sea Tel 9797			
Antenna Mode	Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power			-11.0 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	99.62	-10.00	412.20	-10.00	158.40
5	0.00	94.68	-10.00	412.20	-10.00	158.40
10	0.00	89.74	-10.00	412.20	-10.00	158.40
15	0.00	84.80	-10.00	412.20	-10.00	158.40
20	0.00	79.86	-10.00	412.20	-10.00	158.40
25	0.00	74.93	-10.00	412.20	-10.00	158.40
30	0.00	69.99	-10.00	412.20	-10.00	158.40
35	0.00	65.06	-10.00	412.20	-10.00	158.40
40	0.00	60.14	-10.00	412.20	-10.00	158.40
45	0.00	55.22	-10.00	412.20	-10.00	158.40
50	0.00	50.31	-10.00	412.20	-10.00	158.40
55	0.00	45.42	-9.43	419.31	-9.43	160.93
60	0.00	40.55	-8.20	435.16	-8.20	166.57
65	0.00	35.71	-6.82	453.65	-6.82	173.19
70	0.00	30.91	-5.25	474.96	-5.25	181.08
75	0.00	26.18	-3.45	501.55	-3.45	190.64
80	0.00	21.56	-1.34	534.49	-1.34	202.83
85	0.00	17.14	1.15	575.97	1.15	217.55
90	0.00	13.13	4.04	627.08	4.04	235.67
95	0.00	10.03	6.97	683.43	6.97	255.10
100	0.00	8.85	8.33	711.00	8.33	262.90
105	0.00	10.28	6.70	678.02	6.70	253.25
110	0.00	13.52	3.73	621.89	3.73	233.64
115	0.00	17.59	0.87	571.20	0.87	215.86
120	0.00	21.83	-1.48	532.31	-1.48	202.05
125	0.00	26.01	-3.38	502.60	-3.38	191.01
130	0.00	30.12	-4.97	479.02	-4.97	182.54
135	0.00	34.12	-6.33	460.46	-6.33	175.64
140	0.00	37.99	-7.49	444.55	-7.49	169.93
145	0.00	41.69	-8.50	431.23	-8.50	165.17
150	0.00	45.18	-9.37	420.05	-9.37	161.19
155	0.00	48.39	-10.00	412.20	-10.00	158.40
160	0.00	51.23	-10.00	412.20	-10.00	158.40
165	0.00	53.61	-10.00	412.20	-10.00	158.40
170	0.00	55.43	-10.00	412.20	-10.00	158.40
175	0.00	56.58	-10.00	412.20	-10.00	158.40
180	0.00	56.97	-10.00	412.20	-10.00	158.40
185	0.00	56.58	-10.00	412.20	-10.00	158.40

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Latitude (NAD 83)		28° 18' 0.0" N			
Longitude (NAD 83)		88° 6' 0.0" W			
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Antenna Centerline (AGL)		30.48 m / 100.0 ft			
Antenna Model		Sea Tel 9797			
Antenna Mode		Receive 4.0 GHz		Transmit 6.1 GHz	
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-154.0 dBW/4 kHz	20%
Short Term		-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power				-11.0 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 4.0 GHz		Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	55.44	-10.00	412.20	-10.00	158.40
195	0.00	53.62	-10.00	412.20	-10.00	158.40
200	0.00	51.23	-10.00	412.20	-10.00	158.40
205	0.00	48.38	-10.00	412.20	-10.00	158.40
210	0.00	45.18	-9.37	420.04	-9.37	161.19
215	0.00	41.69	-8.50	431.22	-8.50	165.17
220	0.00	38.07	-7.52	444.25	-7.52	169.82
225	0.00	34.70	-6.51	457.94	-6.51	174.73
230	0.00	31.70	-5.53	471.06	-5.53	179.68
235	0.00	29.19	-4.63	483.97	-4.63	184.32
240	0.00	27.31	-3.91	494.66	-3.91	188.16
245	0.00	26.19	-3.45	501.49	-3.45	190.62
250	0.00	25.93	-3.35	503.10	-3.35	191.20
255	0.00	26.57	-3.61	499.14	-3.61	189.77
260	0.00	28.03	-4.19	490.45	-4.19	186.65
265	0.00	30.20	-5.00	478.61	-5.00	182.39
270	0.00	32.93	-5.94	465.20	-5.94	177.57
275	0.00	36.11	-6.94	452.02	-6.94	172.61
280	0.00	39.61	-7.95	438.52	-7.95	167.78
285	0.00	43.36	-8.93	425.72	-8.93	163.21
290	0.00	47.31	-9.87	413.78	-9.87	158.96
295	0.00	51.39	-10.00	412.20	-10.00	158.40
300	0.00	55.59	-10.00	412.20	-10.00	158.40
305	0.00	59.87	-10.00	412.20	-10.00	158.40
310	0.00	64.21	-10.00	412.20	-10.00	158.40
315	0.00	68.60	-10.00	412.20	-10.00	158.40
320	0.00	73.04	-10.00	412.20	-10.00	158.40
325	0.00	77.50	-10.00	412.20	-10.00	158.40
330	0.00	81.98	-10.00	412.20	-10.00	158.40
335	0.00	86.47	-10.00	412.20	-10.00	158.40
340	0.00	90.97	-10.00	412.20	-10.00	158.40
345	0.00	95.46	-10.00	412.20	-10.00	158.40
350	0.00	99.95	-10.00	412.20	-10.00	158.40
355	0.00	104.42	-10.00	412.20	-10.00	158.40