

19700 Janelia Farm Boulevard

Ashburn, VA 20147

(703) 726-5500

Fax (703) 726-5600

COMSEARCH®



<http://www.comsearch.com>

June 21, 2010

*** CLIENT COPY ***

*** PLEASE MAIL ***

*** TO CUSTOMER ***

Re: Frontier Drilling USA, Inc.
Vioska Knoll 252, Gulf of Mexico
C-Band Transmit-Receive Earth Station
Job Number: 100621COMSJC04

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 coordination data on behalf of Frontier Drilling USA, Inc., 1000 Louisiana Avenue, Houston, Texas 77002 for a proposed C-band transmit/receive earth station to be located at Vioska Knoll 252, 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 July 21, 2010.

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

Sincerely,

COMSEARCH

Jeffrey E. Cowles
Principal Frequency Planner

Enclosure(s)

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5660 <http://www.comsearch.com>

Date: 06/21/2010
Job Number: 100621COMSJC04

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code FRODRI
Licensee Name Frontier Drilling USA, Inc.

Site Information

VIOSKA KNOLL 252, GULF of MEXICO

Venue Name
Latitude (NAD 83) 28° 44' 12.0" N
Longitude (NAD 83) 88° 23' 13.0" 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 60° W to 139° West Longitude
Azimuth Range 131.7° to 248.5°
Corresponding Elevation Angles 44.3° / 26.0°
Antenna Centerline (AGL) 21.34 m / 70.0 ft

Antenna Information

Receive

Transmit

| | | |
|------------------------|------------------|------------------|
| Manufacturer | SeaTel | SeaTel |
| Model | 9797 | 9797 |
| Gain / Diameter | 38.5 dBi / 2.4 m | 41.3 dBi / 2.4 m |
| 3-dB / 15-dB Beamwidth | 2.00° / 3.80° | 1.50° / 2.80° |

450KG7W to 900KG7W

| | | | | | |
|--------------------------|-------------|----------------|-------|------------------|---------|
| Max Available RF Power | (dBW/4 kHz) | -5.4 | -5.4 | | |
| | (dBW/MHz) | 15.1 | 18.1 | | |
| Maximum EIRP | (dBW/4 kHz) | 35.9 | 35.9 | | |
| | (dBW/MHz) | 56.4 | 59.4 | | |
| | (dBW) | 56.4 | 59.4 | | |
| 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% |

Frequency Information

Receive 4.0 GHz

Transmit 6.1 GHz

| | | |
|----------------------------------|-------------------------------------|-------------------------------------|
| Emission / Frequency Range (MHz) | 450KG7W - 900KG7W / 3700.0 - 4200.0 | 450KG7W - 900KG7W / 5925.0 - 6425.0 |
|----------------------------------|-------------------------------------|-------------------------------------|

| | | |
|--|---------------------|---------------------|
| Max Great Circle Coordination Distance | 502.4 km / 312.2 mi | 224.1 km / 139.2 mi |
| Precipitation Scatter Contour Radius | 566.9 km / 352.2 mi | 100.0 km / 62.1 mi |

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Coordination Values**VIOSKA KNOLL 252, GM**

| | | | | | |
|--------------------------|-----------------------------|----------------|------------------|------------------|---------|
| Licensee Name | Frontier Drilling USA, Inc. | | | | |
| Latitude (NAD 83) | 28° 44' 12.0" N | | | | |
| Longitude (NAD 83) | 88° 23' 13.0" W | | | | |
| Ground Elevation (AMSL) | 0.0 m / 0.0 ft | | | | |
| Antenna Centerline (AGL) | 21.34 m / 70.0 ft | | | | |
| Antenna Model | SeaTel 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 | | | | -5.4 (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 | 109.27 | -10.00 | 412.20 | -10.00 | 185.53 |
| 5 | 0.00 | 113.68 | -10.00 | 412.20 | -10.00 | 185.53 |
| 10 | 0.00 | 112.08 | -10.00 | 412.20 | -10.00 | 185.53 |
| 15 | 0.00 | 108.74 | -10.00 | 412.20 | -10.00 | 185.53 |
| 20 | 0.00 | 105.33 | -10.00 | 412.20 | -10.00 | 185.53 |
| 25 | 0.00 | 101.85 | -10.00 | 412.20 | -10.00 | 185.53 |
| 30 | 0.00 | 98.32 | -10.00 | 412.20 | -10.00 | 185.53 |
| 35 | 0.00 | 94.77 | -10.00 | 412.20 | -10.00 | 185.53 |
| 40 | 0.00 | 91.19 | -10.00 | 412.20 | -10.00 | 185.53 |
| 45 | 0.00 | 87.61 | -10.00 | 412.20 | -10.00 | 185.53 |
| 50 | 0.00 | 84.04 | -10.00 | 412.20 | -10.00 | 185.53 |
| 55 | 0.00 | 80.49 | -10.00 | 412.20 | -10.00 | 185.53 |
| 60 | 0.00 | 76.98 | -10.00 | 412.20 | -10.00 | 185.53 |
| 65 | 0.00 | 73.52 | -10.00 | 412.20 | -10.00 | 185.53 |
| 70 | 0.00 | 70.13 | -10.00 | 412.20 | -10.00 | 185.53 |
| 75 | 0.00 | 66.82 | -10.00 | 412.20 | -10.00 | 185.53 |
| 80 | 0.00 | 63.63 | -10.00 | 412.20 | -10.00 | 185.53 |
| 85 | 0.00 | 60.56 | -10.00 | 412.20 | -10.00 | 185.53 |
| 90 | 0.00 | 57.65 | -10.00 | 412.20 | -10.00 | 185.53 |
| 95 | 0.00 | 54.94 | -10.00 | 412.20 | -10.00 | 185.53 |
| 100 | 0.00 | 52.44 | -10.00 | 412.20 | -10.00 | 185.53 |
| 105 | 0.00 | 50.21 | -10.00 | 412.20 | -10.00 | 185.53 |
| 110 | 0.00 | 48.27 | -10.00 | 412.20 | -10.00 | 185.53 |
| 115 | 0.00 | 46.68 | -9.73 | 415.58 | -9.73 | 186.98 |
| 120 | 0.00 | 45.46 | -9.44 | 419.18 | -9.44 | 188.51 |
| 125 | 0.00 | 44.66 | -9.25 | 421.64 | -9.25 | 189.56 |
| 130 | 0.00 | 44.29 | -9.16 | 422.79 | -9.16 | 190.05 |
| 135 | 0.00 | 44.36 | -9.18 | 422.56 | -9.18 | 189.95 |
| 140 | 0.00 | 44.88 | -9.30 | 420.96 | -9.30 | 189.27 |
| 145 | 0.00 | 45.83 | -9.53 | 418.09 | -9.53 | 188.05 |
| 150 | 0.00 | 47.17 | -9.84 | 414.16 | -9.84 | 186.37 |
| 155 | 0.00 | 48.89 | -10.00 | 412.20 | -10.00 | 185.53 |
| 160 | 0.00 | 50.93 | -10.00 | 412.20 | -10.00 | 185.53 |
| 165 | 0.00 | 53.17 | -10.00 | 412.20 | -10.00 | 185.53 |
| 170 | 0.00 | 54.96 | -10.00 | 412.20 | -10.00 | 185.53 |
| 175 | 0.00 | 56.09 | -10.00 | 412.20 | -10.00 | 185.53 |
| 180 | 0.00 | 56.47 | -10.00 | 412.20 | -10.00 | 185.53 |
| 185 | 0.00 | 56.09 | -10.00 | 412.20 | -10.00 | 185.53 |

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Coordination Values

VIOSKA KNOLL 252, GM

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| Antenna Mode | Receive 4.0 GHz | | Transmit 6.1 GHz | | |
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| | Short Term | -146.0 dBW/MHz | 0.01% | -131.0 dBW/4 kHz | 0.0025% |
| Max Available RF Power | | | -5.4 (dBW/4 kHz) | | |

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|-------------|-----------------------|----------------------------|--------------------|----------------------------|--------------------|----------------------------|
| | | | Horizon Gain (dBi) | Coordination Distance (km) | Horizon Gain (dBi) | Coordination Distance (km) |
| 190 | 0.00 | 54.96 | -10.00 | 412.20 | -10.00 | 185.53 |
| 195 | 0.00 | 53.17 | -10.00 | 412.20 | -10.00 | 185.53 |
| 200 | 0.00 | 50.82 | -10.00 | 412.20 | -10.00 | 185.53 |
| 205 | 0.00 | 48.01 | -10.00 | 412.20 | -10.00 | 185.53 |
| 210 | 0.00 | 44.84 | -9.29 | 421.09 | -9.29 | 189.33 |
| 215 | 0.00 | 41.38 | -8.42 | 432.28 | -8.42 | 194.09 |
| 220 | 0.00 | 37.79 | -7.44 | 445.32 | -7.44 | 200.00 |
| 225 | 0.00 | 34.46 | -6.43 | 458.99 | -6.43 | 205.77 |
| 230 | 0.00 | 31.50 | -5.46 | 472.01 | -5.46 | 211.49 |
| 235 | 0.00 | 29.05 | -4.58 | 484.70 | -4.58 | 216.76 |
| 240 | 0.00 | 27.24 | -3.88 | 495.03 | -3.88 | 221.02 |
| 245 | 0.00 | 26.21 | -3.46 | 501.37 | -3.46 | 223.62 |
| 250 | 0.00 | 26.04 | -3.39 | 502.45 | -3.39 | 224.06 |
| 255 | 0.00 | 26.75 | -3.68 | 498.02 | -3.68 | 222.24 |
| 260 | 0.00 | 28.28 | -4.29 | 489.02 | -4.29 | 218.54 |
| 265 | 0.00 | 30.50 | -5.11 | 477.05 | -5.11 | 213.58 |
| 270 | 0.00 | 33.28 | -6.05 | 464.26 | -6.05 | 207.98 |
| 275 | 0.00 | 36.48 | -7.05 | 450.51 | -7.05 | 202.20 |
| 280 | 0.00 | 40.00 | -8.05 | 437.11 | -8.05 | 196.52 |
| 285 | 0.00 | 43.77 | -9.03 | 424.43 | -9.03 | 190.75 |
| 290 | 0.00 | 47.72 | -9.97 | 412.60 | -9.97 | 185.70 |
| 295 | 0.00 | 51.81 | -10.00 | 412.20 | -10.00 | 185.53 |
| 300 | 0.00 | 56.01 | -10.00 | 412.20 | -10.00 | 185.53 |
| 305 | 0.00 | 60.30 | -10.00 | 412.20 | -10.00 | 185.53 |
| 310 | 0.00 | 64.64 | -10.00 | 412.20 | -10.00 | 185.53 |
| 315 | 0.00 | 69.04 | -10.00 | 412.20 | -10.00 | 185.53 |
| 320 | 0.00 | 73.47 | -10.00 | 412.20 | -10.00 | 185.53 |
| 325 | 0.00 | 77.93 | -10.00 | 412.20 | -10.00 | 185.53 |
| 330 | 0.00 | 82.40 | -10.00 | 412.20 | -10.00 | 185.53 |
| 335 | 0.00 | 86.89 | -10.00 | 412.20 | -10.00 | 185.53 |
| 340 | 0.00 | 91.39 | -10.00 | 412.20 | -10.00 | 185.53 |
| 345 | 0.00 | 95.88 | -10.00 | 412.20 | -10.00 | 185.53 |
| 350 | 0.00 | 100.36 | -10.00 | 412.20 | -10.00 | 185.53 |
| 355 | 0.00 | 104.83 | -10.00 | 412.20 | -10.00 | 185.53 |