

19700 Janella Farm Boulevard

Ashburn, VA 20147

(703) 726-5500

Fax (703) 726-5600



COMSEARCH®

<http://www.comsearch.com>

January 29, 2010

*** CLIENT COPY ***

*** PLEASE MAIL ***

*** TO CUSTOMER ***

Re: Shell Communications
Brazos-19 (Oil Platform), Gulf of Mexico
C-Band, Transmit-Receive Earth Station
Job Number: 100129COMSJC04

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 Shell Communications, Houston, Texas 77252 for a proposed C-band, transmit/receive earth station to be located on an oil platform designated Brazos-19, 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 March 1, 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: 01/29/2010
Job Number: 100129COMSJC04

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code SHEINT
Licensee Name Shell Communications

Site Information BRAZOS-19 (Oil Platform), GULF of MEXICO

Venue Name
Latitude (NAD 83) 28° 10' 30.0" N
Longitude (NAD 83) 95° 35' 7.2" W
Climate Zone B
Rain Zone 2
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 143° West Longitude
Azimuth Range 123.4° to 246.5°
Corresponding Elevation Angles 39.1° / 29.0°
Antenna Centerline (AGL) 30.48 m / 100.0 ft

Antenna Information

Manufacturer
Model
Gain / Diameter
3-dB / 15-dB Beamwidth

Receive
Andrew Corporation
Type 243
38.0 dBi / 2.4 m
2.16° / 4.00°

Transmit
Andrew Corporation
Type 243
42.0 dBi / 2.4 m
1.36° / 2.54°

1M81G7W to 4M30G7W

Max Available RF Power	(dBW/4 kHz)			-20.6	-20.6
	(dBW/MHz)			3.4	3.4
Maximum EIRP	(dBW/4 kHz)			21.4	21.4
	(dBW/MHz)			45.4	45.4
	(dBW)			48.0	51.7
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

Emission / Frequency Range (MHz)

Receive 4.0 GHz
1M81G7W - 4M30G7W / 3700.0 - 4200.0

Transmit 6.1 GHz
1M81G7W - 4M30G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance	484.7 km / 301.1 mi	141.5 km / 87.9 mi
Precipitation Scatter Contour Radius	490.2 km / 304.6 mi	100.0 km / 62.1 mi

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Coordination Values	BRAZOS-19 (Oil Platform), GM			
Licensee Name	Shell Communications			
Latitude (NAD 83)	28° 10' 30.0" N			
Longitude (NAD 83)	95° 35' 7.2" W			
Ground Elevation (AMSL)	0.0 m / 0.0 ft			
Antenna Centerline (AGL)	30.48 m / 100.0 ft			
Antenna Model	Andrew Corporation Type 243			
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	-20.6 (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	110.37	-10.00	412.20	-10.00	123.44
5	0.00	111.69	-10.00	412.20	-10.00	123.44
10	0.00	107.98	-10.00	412.20	-10.00	123.44
15	0.00	104.21	-10.00	412.20	-10.00	123.44
20	0.00	100.38	-10.00	412.20	-10.00	123.44
25	0.00	96.53	-10.00	412.20	-10.00	123.44
30	0.00	92.66	-10.00	412.20	-10.00	123.44
35	0.00	88.77	-10.00	412.20	-10.00	123.44
40	0.00	84.90	-10.00	412.20	-10.00	123.44
45	0.00	81.03	-10.00	412.20	-10.00	123.44
50	0.00	77.20	-10.00	412.20	-10.00	123.44
55	0.00	73.41	-10.00	412.20	-10.00	123.44
60	0.00	69.67	-10.00	412.20	-10.00	123.44
65	0.00	66.01	-10.00	412.20	-10.00	123.44
70	0.00	62.43	-10.00	412.20	-10.00	123.44
75	0.00	58.98	-10.00	412.20	-10.00	123.44
80	0.00	55.67	-10.00	412.20	-10.00	123.44
85	0.00	52.53	-10.00	412.20	-10.00	123.44
90	0.00	49.60	-10.00	412.20	-10.00	123.44
95	0.00	46.93	-9.79	414.87	-9.79	124.07
100	0.00	44.56	-9.22	421.96	-9.22	125.77
105	0.00	42.54	-8.72	428.39	-8.72	127.31
110	0.00	40.95	-8.31	433.79	-8.31	128.63
115	0.00	39.81	-8.00	437.80	-8.00	129.61
120	0.00	39.18	-7.83	440.09	-7.83	130.17
125	0.00	39.08	-7.80	440.46	-7.80	130.26
130	0.00	39.52	-7.92	438.86	-7.92	129.87
135	0.00	40.47	-8.18	435.45	-8.18	129.03
140	0.00	41.90	-8.56	430.52	-8.56	127.83
145	0.00	43.77	-9.03	424.42	-9.03	126.36
150	0.00	46.01	-9.57	417.54	-9.57	124.71
155	0.00	48.58	-10.00	412.20	-10.00	123.44
160	0.00	51.35	-10.00	412.20	-10.00	123.44
165	0.00	53.74	-10.00	412.20	-10.00	123.44
170	0.00	55.57	-10.00	412.20	-10.00	123.44
175	0.00	56.72	-10.00	412.20	-10.00	123.44
180	0.00	57.12	-10.00	412.20	-10.00	123.44
185	0.00	56.72	-10.00	412.20	-10.00	123.44

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Antenna Centerline (AGL)		30.48 m / 100.0 ft			
Antenna Model		Andrew Corporation Type 243			
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				-20.6 (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	55.57	-10.00	412.20	-10.00	123.44
195	0.00	53.74	-10.00	412.20	-10.00	123.44
200	0.00	51.35	-10.00	412.20	-10.00	123.44
205	0.00	48.49	-10.00	412.20	-10.00	123.44
210	0.00	45.28	-9.40	419.75	-9.40	125.24
215	0.00	41.82	-8.53	430.81	-8.53	127.90
220	0.00	38.53	-7.64	442.52	-7.64	130.76
225	0.00	35.57	-6.78	454.23	-6.78	133.67
230	0.00	33.04	-5.98	464.70	-5.98	136.45
235	0.00	31.04	-5.30	474.29	-5.30	138.88
240	0.00	29.69	-4.81	481.30	-4.81	140.66
245	0.00	29.06	-4.58	484.68	-4.58	141.53
250	0.00	29.21	-4.64	483.86	-4.64	141.32
255	0.00	30.13	-4.97	478.98	-4.97	140.07
260	0.00	31.74	-5.54	470.85	-5.54	138.01
265	0.00	33.96	-6.27	461.18	-6.27	135.41
270	0.00	36.66	-7.11	449.76	-7.11	132.55
275	0.00	39.76	-7.99	437.99	-7.99	129.65
280	0.00	43.15	-8.88	426.39	-8.88	126.83
285	0.00	46.79	-9.75	415.27	-9.75	124.17
290	0.00	50.60	-10.00	412.20	-10.00	123.44
295	0.00	54.56	-10.00	412.20	-10.00	123.44
300	0.00	58.63	-10.00	412.20	-10.00	123.44
305	0.00	62.78	-10.00	412.20	-10.00	123.44
310	0.00	67.00	-10.00	412.20	-10.00	123.44
315	0.00	71.27	-10.00	412.20	-10.00	123.44
320	0.00	75.59	-10.00	412.20	-10.00	123.44
325	0.00	79.93	-10.00	412.20	-10.00	123.44
330	0.00	84.28	-10.00	412.20	-10.00	123.44
335	0.00	88.65	-10.00	412.20	-10.00	123.44
340	0.00	93.03	-10.00	412.20	-10.00	123.44
345	0.00	97.39	-10.00	412.20	-10.00	123.44
350	0.00	101.74	-10.00	412.20	-10.00	123.44
355	0.00	106.08	-10.00	412.20	-10.00	123.44