

Speedcast Communications, Inc., as a debtor-in-possession
Call Sign E090176

**NOTIFICATION CONCERNING COMPLETION OF C-BAND ESV COORDINATION:
BHP NEPTUNE, GULF OF MEXICO**

August 12, 2020

Speedcast Communications, Inc., as a debtor-in-possession (“Speedcast”) hereby submits, pursuant to Section 25.228(h)(5) of the Commission’s rules for earth stations in motion (“ESIMs”)/earth stations on vessels (“ESVs”), 47 C.F.R. 25.228(h)(5), as well as applicable Commission guidance (see Public Notice DA 11- 132 (Jan. 26, 2001) and Public Notice DA 05-1671 (June 15, 2005)) this notification of frequency coordination for a remote terminal operating on the BHP Neptune in the Gulf of Mexico under its C-band ESV license Call Sign E090176. As indicated in the attached Frequency Coordination and Interference Analysis Report, there are no restrictions on operations due to interference considerations.

The following information is provided so that this notification may be placed on Public Notice:

1. Name and contact information of the frequency coordinator:

Gary Edwards
19700 Janelia Farm Boulevard, Ashburn, VA 20147
Phone: (703) 726-5500
[Email: gedwards@comsearch.com](mailto:gedwards@comsearch.com)

2. Reference identification, date, and duration (if relevant) of the coordination report:

Job Number: 200809COMSGE01
Date: August 12, 2020

3. Frequency coordination method used:

Coordination Contours method.

4. Interference criteria used:

Transmit (Long Term: -154.0 dBw/4 kHz 20% / Short Term: -131.0 dBw/4 kHz 0.0025%)

5. Speed of coordinated vessel, if relevant:

Not relevant (stationary rig).

6. Center frequencies, bandwidths, and total spectrum coordinated per satellite:

Satellite (1):

Center frequency: 6402.5 MHz
Bandwidth: 7.2 MHz
Total Spectrum Coordinated: 35 MHz

Satellite (2):

Center frequency: 6102.5 MHz
Bandwidth: 7.2 MHz
Total Spectrum Coordinated: 35 MHz

7. *Name of satellite(s) and transponder(s) being used:*

Satellite (1): G28 at 89W.
Transponder: C124
Frequency Range Coordinated 6385-6420.

Satellite (2): IS-23 at 53W
Transponder: WH5C
Frequency Range Coordinated 6085-6120 MHz

8. *Textual description and scaled map of the geographic area(s) coordinated:*

Neptune rig in Gulf of Mexico (27° 22' 12.3" N, 89° 55' 26.5" W).

9. *24/7 contact information for the ESV operator:*

Speedcast Houston CSC
4400 S. Sam Houston Parkway East
Houston, TX 77048 USA
Phone: +1 832 668 2775
[Email: Global.CSC@speedcast.com](mailto:Global.CSC@speedcast.com)

10. *Call sign of the hub station if independently licensed:*

Not applicable.

11. *Statement indicating that as of the date of this notification there are no unresolved coordination requests which would result in an exceedance of the maximum 180 megahertz of coordinated spectrum for all ESV operations in the coordination area in Section 25.202(a)(8):*

The frequency coordinator advises that there are no unresolved coordination requests which would result in an exceedance of the maximum 180 megahertz of coordinated spectrum for all ESV operations in the coordination area in the 5925-6425 MHz band. Speedcast will provide a further notification to the Commission should circumstances warrant.

Speedcast respectfully requests that this notification of successfully completed frequency coordination be placed on Public Notice. Any further questions with respect to this matter should be directed to Carlos Nalda at (571) 332-5626 or cnalda@lmiadvisors.com.

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
BHP Billiton Petroleum
BHP NEPTUNE, GM
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
August 12, 2020

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

No great circle interference cases were identified during the interference study of the proposed earth station.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 08/09/2020.

Company

Chevron USA Inc.

RigNet SatCom, Inc.

Tampnet Licensee LLC

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 08/12/2020
Job Number: 200809COMSGE01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: BHPBIP
Licensee Name: BHP Billiton Petroleum

Site Information

BHP NEPTUNE, GM

Venue Name:
Latitude (NAD 83): 27° 22' 12.3" N
Longitude (NAD 83): 89° 55' 26.5" W
Climate Zone: A
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: 53° W / 89° West Longitude
Azimuth Range: 121.5° / 178.0°
Corresponding Elevation Angles: 38.4° / 58.0°
Antenna Centerline (AGL): 45.72 m / 150.0 ft

Antenna Information

Receive - FCC32

Transmit - FCC32

Manufacturer: SeaTel
Model: 9797B-88
Gain / Diameter: 38.5 dBi / 2.4 m
3-dB / 15-dB Beamwidth: 0.50° / 1.00°

SeaTel
9797B-88
41.7 dBi / 2.4 m
1.00° / 2.00°

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

-19.5
4.5

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

22.2
46.2

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

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz): 7M20G7W / 3700.0 - 4200.0

7M20G7W / 6085.0 - 6120.0
7M20G7W / 6385.0 - 6420.0

Max Great Circle Coordination Distance: 300.9 km / 186.9 mi
Precipitation Scatter Contour Radius: 553.8 km / 344.1 mi

124.5 km / 77.4 mi
100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Coordination Values

BHP NEPTUNE, GM

Licensee Name BHP Billiton Petroleum
Latitude (NAD 83) 27° 22' 12.3" N
Longitude (NAD 83) 89° 55' 26.5" W
Ground Elevation (AMSL) 0.0 m / 0.0 ft
Antenna Centerline (AGL) 45.72 m / 150.0 ft
Antenna Model Seatel 2.4 meter
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 -19.5 (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	114.13	-10.00	285.28	-10.00	118.35
5	0.00	110.43	-10.00	285.28	-10.00	118.35
10	0.00	106.65	-10.00	285.28	-10.00	118.35
15	0.00	102.82	-10.00	285.28	-10.00	118.35
20	0.00	98.95	-10.00	285.28	-10.00	118.35
25	0.00	95.06	-10.00	285.28	-10.00	118.35
30	0.00	91.14	-10.00	285.28	-10.00	118.35
35	0.00	87.23	-10.00	285.28	-10.00	118.35
40	0.00	83.32	-10.00	285.28	-10.00	118.35
45	0.00	79.43	-10.00	285.28	-10.00	118.35
50	0.00	75.58	-10.00	285.28	-10.00	118.35
55	0.00	71.77	-10.00	285.28	-10.00	118.35
60	0.00	68.02	-10.00	285.28	-10.00	118.35
65	0.00	64.35	-10.00	285.28	-10.00	118.35
70	0.00	60.78	-10.00	285.28	-10.00	118.35
75	0.00	57.34	-10.00	285.28	-10.00	118.35
80	0.00	54.05	-10.00	285.28	-10.00	118.35
85	0.00	50.94	-10.00	285.28	-10.00	118.35
90	0.00	48.07	-10.00	285.28	-10.00	118.35
95	0.00	45.47	-9.44	288.85	-9.44	119.80
100	0.00	43.19	-8.88	292.47	-8.88	121.24
105	0.00	41.30	-8.40	295.67	-8.40	122.51
110	0.00	39.84	-8.01	298.26	-8.01	123.53
115	0.00	38.88	-7.74	300.04	-7.74	124.22
120	0.00	38.45	-7.62	300.85	-7.62	124.54
125	0.00	38.56	-7.65	300.64	-7.65	124.46
130	0.00	39.22	-7.84	299.41	-7.84	123.98
135	0.00	40.39	-8.16	297.27	-8.16	123.14
140	0.00	42.03	-8.59	294.41	-8.59	122.01
145	0.00	44.09	-9.11	291.01	-9.11	120.66
150	0.00	46.51	-9.69	287.27	-9.69	119.16
155	0.00	49.23	-10.00	285.28	-10.00	118.35
160	0.00	52.10	-10.00	285.28	-10.00	118.35
165	0.00	54.56	-10.00	285.28	-10.00	118.35
170	0.00	56.44	-10.00	285.28	-10.00	118.35
175	0.00	57.63	-10.00	285.28	-10.00	118.35
180	0.00	58.05	-10.00	285.28	-10.00	118.35
185	0.00	58.29	-10.00	285.28	-10.00	118.35

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

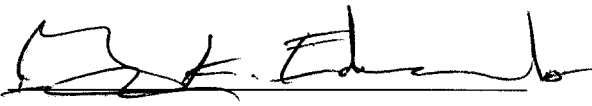
BHP NEPTUNE, GM

Licensee Name	BHP Billiton Petroleum				
Latitude (NAD 83)	27° 22' 12.3" N				
Longitude (NAD 83)	89° 55' 26.5" W				
Ground Elevation (AMSL)	0.0 m / 0.0 ft				
Antenna Centerline (AGL)	45.72 m / 150.0 ft				
Antenna Model	Seatel 2.4 meter				
Antenna Mode	Receive 4.0 GHz				
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	Transmit 6.1 GHz	-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				-19.5 (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	58.80	-10.00	285.28	-10.00	118.35
195	0.00	59.57	-10.00	285.28	-10.00	118.35
200	0.00	60.59	-10.00	285.28	-10.00	118.35
205	0.00	61.85	-10.00	285.28	-10.00	118.35
210	0.00	63.32	-10.00	285.28	-10.00	118.35
215	0.00	64.98	-10.00	285.28	-10.00	118.35
220	0.00	66.83	-10.00	285.28	-10.00	118.35
225	0.00	68.83	-10.00	285.28	-10.00	118.35
230	0.00	70.97	-10.00	285.28	-10.00	118.35
235	0.00	73.24	-10.00	285.28	-10.00	118.35
240	0.00	75.61	-10.00	285.28	-10.00	118.35
245	0.00	78.06	-10.00	285.28	-10.00	118.35
250	0.00	80.58	-10.00	285.28	-10.00	118.35
255	0.00	83.16	-10.00	285.28	-10.00	118.35
260	0.00	85.78	-10.00	285.28	-10.00	118.35
265	0.00	88.42	-10.00	285.28	-10.00	118.35
270	0.00	91.06	-10.00	285.28	-10.00	118.35
275	0.00	93.70	-10.00	285.28	-10.00	118.35
280	0.00	96.32	-10.00	285.28	-10.00	118.35
285	0.00	98.91	-10.00	285.28	-10.00	118.35
290	0.00	101.45	-10.00	285.28	-10.00	118.35
295	0.00	103.91	-10.00	285.28	-10.00	118.35
300	0.00	106.30	-10.00	285.28	-10.00	118.35
305	0.00	108.59	-10.00	285.28	-10.00	118.35
310	0.00	110.76	-10.00	285.28	-10.00	118.35
315	0.00	112.79	-10.00	285.28	-10.00	118.35
320	0.00	114.67	-10.00	285.28	-10.00	118.35
325	0.00	116.37	-10.00	285.28	-10.00	118.35
330	0.00	117.88	-10.00	285.28	-10.00	118.35
335	0.00	119.18	-10.00	285.28	-10.00	118.35
340	0.00	120.24	-10.00	285.28	-10.00	118.35
345	0.00	121.07	-10.00	285.28	-10.00	118.35
350	0.00	121.24	-10.00	285.28	-10.00	118.35
355	0.00	117.75	-10.00	285.28	-10.00	118.35

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: August 12, 2020