

E040123 SES-STA-20130522-00442
ITC Global USA, LLC

IB2013001107

Approved by OMB
3060-0678

APPLICATION FOR E,
Y

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for STA at Green Canyon 664 while permanent application is under review

1. Applicant

Name: ITC Global USA, LLC **Phone Number:** 727-898-3835
DBA Name: **Fax Number:**
Street: 200 Central Avenue **E-Mail:**
Suite 700
City: St. Petersburg **State:** FL
Country: USA **Zipcode:** 33601
Attention: Mr Joseph A Spytek

COMMUNICATIONS FEDERAL BUREAU OF INVESTIGATION
GRANTED
Federal Bureau

File # SES-STA-20130522-00442
Call Sign 2040123 Grant Date 8-28-13
(or other identifier)
Term Dates From 5-28-13 To 7-27-13
Approved: Paul E. Hayes

2. Contact

Name: Raul Magallanes **Phone Number:** 2813171397
Company: The Law Office of Raul Magallanes **Fax Number:** 2812718085
Street: PO Box 1213 **E-Mail:** raul@rmtelecomlaw.com
City: Houston **State:** TX
Country: USA **Zipcode:** 77549 **Relationship:** Other
Attention: Raul Magallanes

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number SESMFS2013051900393 or Submission ID

4a. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other (please explain):

4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station

5. Type Request

Use Prior to Grant Change Station Location Other

6. Requested Use Prior Date
05/27/2013

7. City Gulf of Mexico	8. Latitude (dd mm ss.s h) 27 19 17.9 N
9. State LA	10. Longitude (dd mm ss.s h) 90 35 4.0 W
11. Please supply any need attachments. Attachment 1: Request Attachment 2: Exhibit A Attachment 3: Exhibit B	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) <div style="border: 1px solid black; padding: 5px;">Request for Special Temporary Authority for C-band transmit/receive earth station to provide digital services to and from their Green Canyon 644 oil platform, located in the gulf or Mexico; while permanent application is under review</div>	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Jon Denton	15. Title of Person Signing Director of Technology
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

May 22, 2013

Paul Blais
System Analysis Branch
Satellite Division
International Bureau
Federal Communications Commission
445 12th Street SW
Washington, DC 20554

Re: Request for Special Temporary Authority

Dear Mr. Blais,

Pursuant to Section 25.120(a) of the Rules and Regulations (“Regulations”) of the Federal Communications Commission (“Commission”), ITC Global Networks, LLC. (“ITC Global”) seeks Commission consideration for a Special Temporary Authority (“STA”) to operate a new earth station.

According to Section 25.120(b)(3) of the Regulations, the Commission may grant temporary authority for a period not to exceed 60 days, if the STA request has not been placed on public notice, and the applicant plans to file a request for regular authority for the service. In the instant case, the STA request has not been placed on public notice and ITC Global has filed an application for regular authority¹. Therefore, ITC Global respectfully requests an STA for a period not to exceed 60 days.

According to Section 25.120 (b)(1) of the Regulations, "The Commission may grant a temporary authorization only upon a finding that there are extraordinary circumstances requiring temporary operations in the public interest and that delay in the institution of these temporary operations would seriously prejudice the public interest."

In the instant case, ITC Global plans to provide service to an oil platform in the Green Canyon block 664 of the Gulf of Mexico. This platform is about 300 nautical miles from the coast. As such, it provides lifeline communications to the crew aboard the platform. The satellite link will be used extensively by crew members that depend on it for their voice and data needs. Therefore, it is in the public interest that communications to the platform continue uninterrupted. Anything potentially affecting the safety of platform personnel is in the public interest.

The current application plans to use the SES-2 (273E) satellite.

In order to ensure timely communications to crew member of the platform, the requested date for prior use is May 27, 2013. In accordance to Section 25.120(a) of the Regulations, this STA is being filed at least 3 working days prior to the date of proposed operation.

Because of the nature of operations in this platform, it is in the public interest that the proposed earth station be operational to accommodate the critical calls that are placed by platform personnel. In addition, should there be an emergency in this platform; this earth station would be used to place calls to communicate with the appropriate agencies.

¹ See Filename SES-MFS-20130519-0039, call sign E040123

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**ITC Global USA, LLC
Green Canyon 664, Gulf of Mexico
(Oil Platform)**

Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Virginia 20147
May 16, 2013

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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

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the proposed transmit-receive earth station.

Company

None

No carriers reported potential interference cases.

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.

Expedited coordination data for this earth station was emailed and sent to the below listed carriers with a letter dated May 3, 2013.

Company

Stratos Offshore Services Company

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: 05/16/2013
Job Number: 130503COMSJC15

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code ITCGLO
Licensee Name ITC Global USA, LLC

Site Information

GREEN CANYON 664 (Oil Platform), GULF of MEXICO

Venue Name
Latitude (NAD 83) 27° 19' 17.9" N
Longitude (NAD 83) 90° 35' 4.0" 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 143° West Longitude
Azimuth Range 127.8° to 250.5°
Corresponding Elevation Angles 43.6° / 24.9°
Antenna Centerline (AGL) 30.48 m / 100.0 ft

Antenna Information

Receive

Transmit

Manufacturer	SeaTel	SeaTel			
Model	9797	9797			
Gain / Diameter	38.5 dBi / 2.4 m	41.7 dBi / 2.4 m			
3-dB / 15-dB Beamwidth	2.10° / 3.80°	1.40° / 2.65°			
Max Available RF Power (dBW/4 kHz)		-18.9			
(dBW/MHz)		5.1			
Maximum EIRP (dBW/4 kHz)		22.8			
(dBW/MHz)		46.8			
(dBW)		42.7			
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

Receive 4.0 GHz

Transmit 6.1 GHz

Emission / Frequency Range (MHz)	390KG7W / 3700.0 - 4200.0	390KG7W / 5925.0 - 6425.0
Max Great Circle Coordination Distance	509.6 km / 316.6 mi	154.9 km / 96.2 mi
Precipitation Scatter Contour Radius	568.9 km / 353.4 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

GREEN CANYON 664 (Oil Platform), GM

Licensee Name	ITC Global USA, LLC		
Latitude (NAD 83)	27° 19' 17.9" N		
Longitude (NAD 83)	90° 35' 4.0" W		
Ground Elevation (AMSL)	0.0 m / 0.0 ft		
Antenna Centerline (AGL)	30.48 m / 100.0 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
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
Max Available RF Power			-18.9 (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	107.58	-10.00	412.20	-10.00	128.64
5	0.00	112.05	-10.00	412.20	-10.00	128.64
10	0.00	109.76	-10.00	412.20	-10.00	128.64
15	0.00	106.32	-10.00	412.20	-10.00	128.64
20	0.00	102.81	-10.00	412.20	-10.00	128.64
25	0.00	99.26	-10.00	412.20	-10.00	128.64
30	0.00	95.66	-10.00	412.20	-10.00	128.64
35	0.00	92.05	-10.00	412.20	-10.00	128.64
40	0.00	88.43	-10.00	412.20	-10.00	128.64
45	0.00	84.82	-10.00	412.20	-10.00	128.64
50	0.00	81.22	-10.00	412.20	-10.00	128.64
55	0.00	77.66	-10.00	412.20	-10.00	128.64
60	0.00	74.15	-10.00	412.20	-10.00	128.64
65	0.00	70.70	-10.00	412.20	-10.00	128.64
70	0.00	67.33	-10.00	412.20	-10.00	128.64
75	0.00	64.06	-10.00	412.20	-10.00	128.64
80	0.00	60.92	-10.00	412.20	-10.00	128.64
85	0.00	57.93	-10.00	412.20	-10.00	128.64
90	0.00	55.12	-10.00	412.20	-10.00	128.64
95	0.00	52.53	-10.00	412.20	-10.00	128.64
100	0.00	50.19	-10.00	412.20	-10.00	128.64
105	0.00	48.14	-10.00	412.20	-10.00	128.64
110	0.00	46.43	-9.67	416.33	-9.67	129.71
115	0.00	45.09	-9.35	420.32	-9.35	130.74
120	0.00	44.17	-9.13	423.18	-9.13	131.48
125	0.00	43.68	-9.01	424.71	-9.01	131.88
130	0.00	43.65	-9.00	424.80	-9.00	131.91
135	0.00	44.07	-9.10	423.46	-9.10	131.56
140	0.00	44.94	-9.32	420.77	-9.32	130.86
145	0.00	46.22	-9.62	416.92	-9.62	129.86
150	0.00	47.89	-10.00	412.20	-10.00	128.64
155	0.00	49.89	-10.00	412.20	-10.00	128.64
160	0.00	52.20	-10.00	412.20	-10.00	128.64
165	0.00	54.61	-10.00	412.20	-10.00	128.64
170	0.00	56.50	-10.00	412.20	-10.00	128.64
175	0.00	57.69	-10.00	412.20	-10.00	128.64
180	0.00	58.10	-10.00	412.20	-10.00	128.64
185	0.00	57.69	-10.00	412.20	-10.00	128.64

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

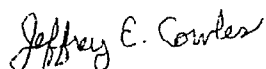
GREEN CANYON 664 (Oil Platform), GM

Licensee Name	ITC Global USA, LLC		
Latitude (NAD 83)	27° 19' 17.9" N		
Longitude (NAD 83)	90° 35' 4.0" W		
Ground Elevation (AMSL)	0.0 m / 0.0 ft		
Antenna Centerline (AGL)	30.48 m / 100.0 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
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
Max Available RF Power			-18.9 (dBW/4 kHz)
			20%
			0.0025%

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	56.50	-10.00	412.20	-10.00	128.64
195	0.00	54.61	-10.00	412.20	-10.00	128.64
200	0.00	52.15	-10.00	412.20	-10.00	128.64
205	0.00	49.22	-10.00	412.20	-10.00	128.64
210	0.00	45.94	-9.56	417.76	-9.56	130.07
215	0.00	42.38	-8.68	428.92	-8.68	132.98
220	0.00	38.65	-7.68	442.07	-7.68	136.45
225	0.00	35.09	-6.63	456.25	-6.63	140.23
230	0.00	31.88	-5.59	470.19	-5.59	144.16
235	0.00	29.11	-4.60	484.39	-4.60	148.03
240	0.00	26.94	-3.76	496.89	-3.76	151.33
245	0.00	25.50	-3.16	505.90	-3.16	153.82
250	0.00	24.94	-2.92	509.62	-2.92	154.85
255	0.00	25.30	-3.08	507.20	-3.08	154.18
260	0.00	26.56	-3.60	499.21	-3.60	151.97
265	0.00	28.59	-4.40	487.30	-4.40	148.70
270	0.00	31.24	-5.37	473.33	-5.37	145.02
275	0.00	34.37	-6.40	459.39	-6.40	141.07
280	0.00	37.85	-7.45	445.08	-7.45	137.25
285	0.00	41.61	-8.48	431.52	-8.48	133.66
290	0.00	45.56	-9.46	418.89	-9.46	130.37
295	0.00	49.67	-10.00	412.20	-10.00	128.64
300	0.00	53.88	-10.00	412.20	-10.00	128.64
305	0.00	58.19	-10.00	412.20	-10.00	128.64
310	0.00	62.56	-10.00	412.20	-10.00	128.64
315	0.00	66.98	-10.00	412.20	-10.00	128.64
320	0.00	71.45	-10.00	412.20	-10.00	128.64
325	0.00	75.94	-10.00	412.20	-10.00	128.64
330	0.00	80.45	-10.00	412.20	-10.00	128.64
335	0.00	84.98	-10.00	412.20	-10.00	128.64
340	0.00	89.51	-10.00	412.20	-10.00	128.64
345	0.00	94.04	-10.00	412.20	-10.00	128.64
350	0.00	98.57	-10.00	412.20	-10.00	128.64
355	0.00	103.09	-10.00	412.20	-10.00	128.64

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.



Jeffrey E. Cowles
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, Va. 20147

DATED: May 16, 2013

Request for Routine Processing of Non-Compliant Antenna

The antenna at issue is a C-band Seatel 9797 (“Antenna”). This Antenna does not strictly comply with Section 25.209 of the Regulations. However, according to Section 25.218 of the Regulations, an applicant may request routine processing of an application if it meets the applicable off-axis EIRP envelopes.

Furthermore, an application pursuant to Section 25.218 must file the corresponding tables outlined in Section 25.115(h) of the Regulations. Applicant presents below the tables outlined in Section 25.115(h) and therefore requests routine processing of this application.

EIRP DENSITY TABLE, AZIMUTH - §25.115 (h) (1)				
Antenna Manufacturer	Seatel		Antenna Diameter	2.4 m
Antenna Model	9797		Antenna Gain	41.7 dBi
Transmit Frequency	6.175	GHz	Max EIRP Density	22.8 dBW/4KHz

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
1.5	21.9	6.1	-15.8
1.6	21.2	3.6	-17.6
1.7	20.5	1.1	-19.4
1.8	19.9	-1.9	-21.8
1.9	19.3	-4.9	-24.2
2.0	18.8	-7.4	-26.2
2.1	18.2	-10.4	-28.6
2.2	17.7	-13.9	-31.6
2.3	17.3	-14.9	-32.1
2.4	16.8	-13.9	-30.7
2.5	16.4	-12.8	-29.1
2.6	15.9	-11.5	-27.4
2.7	15.5	-11.4	-26.9
2.8	15.1	-11.5	-26.6
2.9	14.7	-12.8	-27.5
3.0	14.4	-14.9	-29.3
3.1	14.0	-17.8	-31.8
3.2	13.7	-21.4	-35.1
3.3	13.3	-22.9	-36.2
3.4	13.0	-18.9	-31.9
3.5	12.7	-14.9	-27.6
3.6	12.4	-13.9	-26.3
3.7	12.1	-13.1	-25.2
3.8	11.8	-12.9	-24.7
3.9	11.5	-13.9	-25.4
4.0	11.2	-14.9	-26.1
4.1	11.0	-16.4	-27.4
4.2	10.7	-17.8	-28.5
4.3	10.5	-20.0	-30.5
4.4	10.2	-23.9	-34.1
4.5	10.0	-30.0	-40.0
4.6	9.7	-35.9	-45.6
4.7	9.5	-35.9	-45.4

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
7.5	5.3	-25.0	-30.3
7.6	5.3	-23.9	-29.2
7.7	5.3	-20.0	-25.3
7.8	5.3	-21.4	-26.7
7.9	5.3	-20.9	-26.2
8.0	5.3	-20.9	-26.2
8.1	5.3	-19.9	-25.2
8.2	5.3	-19.9	-25.2
8.3	5.3	-19.9	-25.2
8.4	5.3	-21.4	-26.7
8.5	5.3	-21.9	-27.2
8.6	5.3	-22.4	-27.7
8.7	5.3	-23.9	-29.2
8.8	5.3	-25.0	-30.3
8.9	5.3	-25.9	-31.2
9.0	5.3	-26.4	-31.7
9.1	5.3	-26.9	-32.2
9.2	5.3	-27.9	-33.2
9.3	5.1	-28.9	-34.0
9.4	5.0	-29.4	-34.4
9.5	4.9	-30.4	-35.2
9.6	4.7	-30.9	-35.6
9.7	4.6	-31.4	-36.0
9.8	4.5	-31.4	-35.9
9.9	4.4	-30.9	-35.3
10.0	4.3	-29.9	-34.2
15.0	-0.1	-30.9	-30.8
20.0	-3.2	-34.9	-31.7
25.0	-5.6	-36.9	-31.2
30.0	-7.6	-33.9	-26.3
35.0	-9.3	-36.4	-27.1
40.0	-10.8	-33.9	-23.1
45.0	-12.0	-36.4	-24.4

ITC Global USA, LLC
Form 312, Schedule B

4.8	9.3	-30.0	-39.3
4.9	9.0	-25.0	-34.0
5.0	8.8	-23.9	-32.7
5.1	8.6	-21.4	-30.0
5.2	8.4	-19.9	-28.3
5.3	8.2	-18.9	-27.1
5.4	8.0	-17.8	-25.8
5.5	7.8	-16.9	-24.7
5.6	7.6	-16.4	-24.0
5.7	7.4	-16.9	-24.3
5.8	7.2	-16.4	-23.6
5.9	7.0	-17.8	-24.8
6.0	6.8	-18.9	-25.7
6.1	6.7	-20.9	-27.6
6.2	6.5	-21.9	-28.4
6.3	6.3	-23.9	-30.2
6.4	6.1	-24.9	-31.0
6.5	6.0	-24.9	-30.9
6.6	5.8	-24.9	-30.7
6.7	5.6	-24.9	-30.5
6.8	5.5	-24.9	-30.4
6.9	5.3	-25.9	-31.2
7.0	5.2	-26.4	-31.6
7.1	5.3	-27.4	-32.7
7.2	5.3	-27.9	-33.2
7.3	5.3	-26.2	-31.5
7.4	5.3	-26.4	-31.7

50.0	-12.7	-36.9	-24.2
55.0	-12.7	-33.9	-21.2
60.0	-12.7	-39.9	-27.2
65.0	-12.7	-41.9	-29.2
70.0	-12.7	-41.4	-28.7
75.0	-12.7	-41.9	-29.2
80.0	-12.7	-41.4	-28.7
85.0	-12.7	-40.9	-28.2
90.0	-12.7	-38.9	-26.2
95.0	-12.7	-39.9	-27.2
100.0	-12.7	-38.9	-26.2
105.0	-12.7	-28.9	-16.2
110.0	-12.7	-31.4	-18.7
115.0	-12.7	-28.9	-16.2
120.0	-12.7	-28.9	-16.2
125.0	-12.7	-28.9	-16.2
130.0	-12.7	-28.9	-16.2
135.0	-12.7	-28.9	-16.2
140.0	-12.7	-29.9	-17.2
145.0	-12.7	-29.9	-17.2
150.0	-12.7	-28.9	-16.2
155.0	-12.7	-31.4	-18.7
160.0	-12.7	-32.9	-20.2
165.0	-12.7	-28.4	-15.7
170.0	-12.7	-31.4	-18.7
175.0	-12.7	-36.4	-23.7
180.0	-12.7	-38.9	-26.2

Exhibit B

EIRP DENSITY TABLE, ELEVATION - §25.115 (h) (2)			
Antenna Manufacturer	Seatel	Antenna Diameter	2.4 m
Antenna Model	9797	Antenna Gain	41.4 dBi
Transmit Frequency	6.175 GHz	Max EIRP Density	22.8 dBW/4KHz

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
1.5	24.9	11.5	-13.4
1.6	24.2	9.6	-14.6
1.7	23.5	7.6	-15.9
1.8	22.9	5.4	-17.5
1.9	22.3	2.7	-19.7
2.0	21.8	-0.2	-22.0
2.1	21.2	-3.7	-24.9
2.2	20.7	-7.2	-28.0
2.3	20.3	-9.7	-29.9
2.4	19.8	-10.3	-30.1
2.5	19.4	-10.1	-29.4
2.6	18.9	-10.0	-28.9
2.7	18.5	-10.5	-29.0
2.8	18.1	-11.7	-29.9
2.9	17.7	-13.9	-31.6
3.0	17.4	-17.4	-34.8
3.1	17.0	-24.3	-41.3
3.2	16.7	-32.4	-49.1
3.3	16.3	-21.9	-38.2
3.4	16.0	-17.4	-33.4
3.5	15.7	-15.4	-31.1
3.6	15.4	-14.2	-29.6
3.7	15.1	-13.9	-29.0
3.8	14.8	-14.3	-29.1
3.9	14.5	-15.3	-29.9
4.0	14.2	-17.3	-31.5
4.1	14.0	-20.9	-34.9
4.2	13.7	-27.0	-40.7
4.3	13.5	-36.2	-49.7
4.4	13.2	-23.5	-36.7
4.5	13.0	-19.0	-31.9
4.6	12.7	-16.1	-28.9
4.7	12.5	-14.4	-26.9

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
6.1	9.7	-17.7	-27.4
6.2	9.5	-16.9	-26.4
6.3	9.3	-16.7	-26.0
6.4	9.1	-17.1	-26.2
6.5	9.0	-18.0	-27.0
6.6	8.8	-19.8	-28.6
6.7	8.6	-22.1	-30.7
6.8	8.5	-25.8	-34.3
6.9	8.3	-29.1	-37.4
7.0	8.2	-26.4	-34.6
7.1	8.0	-22.7	-30.8
7.2	7.9	-20.2	-28.0
7.3	7.7	-18.4	-26.1
7.4	7.6	-17.4	-24.9
7.5	7.4	-16.9	-24.3
7.6	7.3	-16.8	-24.1
7.7	7.1	-17.2	-24.4
7.8	7.0	-18.1	-25.1
7.9	6.9	-19.5	-26.4
8.0	6.7	-21.6	-28.3
8.1	6.6	-24.4	-31.0
8.2	6.5	-26.8	-33.3
8.3	6.3	-26.9	-33.2
8.4	6.2	-24.4	-30.6
8.5	6.1	-22.1	-28.1
8.6	5.9	-20.3	-26.3
8.7	5.8	-19.1	-25.0
8.8	5.7	-18.4	-24.1
8.9	5.6	-18.2	-23.7
9.0	5.4	-18.3	-23.7
9.1	5.3	-18.7	-24.0
9.2	5.2	-19.4	-24.7
9.3	5.1	-20.3	-25.3

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4.8	12.3	-13.4	-25.6
4.9	12.0	-12.9	-24.9
5.0	11.8	-12.8	-24.6
5.1	11.6	-13.2	-24.8
5.2	11.4	-14.1	-25.5
5.3	11.2	-15.4	-26.6
5.4	11.0	-17.6	-28.5
5.5	10.8	-21.0	-31.8
5.6	10.6	-26.9	-37.5
5.7	10.4	-44.0	-54.4
5.8	10.2	-27.6	-37.8
5.9	10.0	-22.1	-32.1
6.0	9.8	-19.2	-29.1

9.4	5.0	-20.8	Exhibit B -25.8
9.5	4.9	-20.8	-25.7
9.6	4.7	-20.2	-24.9
9.7	4.6	-19.0	-23.6
9.8	4.5	-17.8	-22.3
9.9	4.4	-16.8	-21.2
10.0	4.3	-16.1	-20.4
15.0	-0.1	-26.8	-26.7
20.0	-3.2	-35.5	-32.3
25.0	-5.6	-36.1	-30.5
30.0	-7.6	-40.5	-32.9
35.0	-9.3	-33.2	-23.9
40.0	-10.8	-34.6	-23.9
45.0	-12.0	-38.1	-26.1

EIRP DENSITY TABLE, AZIMUTH - §25.115 (h) (3)				
Antenna Manufacturer	Seatel	Antenna Diameter	2.4	m
Antenna Model	9797	Antenna Gain	41.4	dBi
Transmit Frequency	6.175 GHz	Max EIRP Density	22.8	dBW/4KHz

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
1.5	21.9	0.6	-21.3
1.6	21.2	-1.9	-23.1
1.7	20.5	-4.4	-24.9
1.8	19.9	-7.4	-27.3
1.9	19.3	-10.4	-29.7
2.0	18.8	-12.9	-31.6
2.1	18.2	-15.9	-34.1
2.2	17.7	-19.4	-37.1
2.3	17.3	-20.4	-37.6
2.4	16.8	-19.4	-36.2
2.5	16.4	-18.3	-34.6
2.6	15.9	-17.0	-32.9
2.7	15.5	-16.9	-32.4
2.8	15.1	-17.0	-32.1
2.9	14.7	-18.3	-33.0
3.0	14.4	-20.4	-34.7
3.1	14.0	-23.3	-37.3
3.2	13.7	-26.9	-40.5
3.3	13.3	-28.4	-41.7
3.4	13.0	-24.4	-37.4
3.5	12.7	-20.4	-33.1
3.6	12.4	-19.4	-31.8
3.7	12.1	-18.6	-30.7
3.8	11.8	-18.4	-30.2
3.9	11.5	-19.4	-30.9
4.0	11.2	-20.4	-31.6
4.1	11.0	-21.9	-32.8
4.2	10.7	-23.3	-34.0
4.3	10.5	-25.5	-35.9
4.4	10.2	-29.4	-39.6
4.5	10.0	-35.5	-45.4
4.6	9.7	-41.4	-51.1
4.7	9.5	-41.4	-50.9

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
7.5	5.3	-30.5	-35.8
7.6	5.3	-29.4	-34.7
7.7	5.3	-25.5	-30.8
7.8	5.3	-26.9	-32.2
7.9	5.3	-26.4	-31.7
8.0	5.3	-26.4	-31.7
8.1	5.3	-25.4	-30.7
8.2	5.3	-25.4	-30.7
8.3	5.3	-25.4	-30.7
8.4	5.3	-26.9	-32.2
8.5	5.3	-27.4	-32.7
8.6	5.3	-27.9	-33.2
8.7	5.3	-29.4	-34.7
8.8	5.3	-30.5	-35.8
8.9	5.3	-31.4	-36.7
9.0	5.3	-31.9	-37.2
9.1	5.3	-32.4	-37.7
9.2	5.3	-33.4	-38.7
9.3	5.1	-34.4	-39.4
9.4	5.0	-34.9	-39.8
9.5	4.9	-35.9	-40.7
9.6	4.7	-36.4	-41.1
9.7	4.6	-36.9	-41.5
9.8	4.5	-36.9	-41.4
9.9	4.4	-36.4	-40.8
10.0	4.3	-35.4	-39.7
15.0	-0.1	-36.4	-36.3
20.0	-3.2	-40.4	-37.1
25.0	-5.6	-42.4	-36.7
30.0	-7.6	-39.4	-31.7
35.0	-9.3	-41.9	-32.6
40.0	-10.8	-39.4	-28.6
45.0	-12.0	-41.9	-29.8

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4.8	9.3	-35.5	-44.7
4.9	9.0	-30.5	-39.5
5.0	8.8	-29.4	-38.2
5.1	8.6	-26.9	-35.5
5.2	8.4	-25.4	-33.8
5.3	8.2	-24.4	-32.6
5.4	8.0	-23.3	-31.3
5.5	7.8	-22.4	-30.2
5.6	7.6	-21.9	-29.5
5.7	7.4	-22.4	-29.8
5.8	7.2	-21.9	-29.1
5.9	7.0	-23.3	-30.3
6.0	6.8	-24.4	-31.2
6.1	6.7	-26.4	-33.0
6.2	6.5	-27.4	-33.9
6.3	6.3	-29.4	-35.7
6.4	6.1	-30.4	-36.5
6.5	6.0	-30.4	-36.3
6.6	5.8	-30.4	-36.2
6.7	5.6	-30.4	-36.0
6.8	5.5	-30.4	-35.8
6.9	5.3	-31.4	-36.7
7.0	5.2	-31.9	-37.0
7.1	5.3	-32.9	-38.2
7.2	5.3	-33.4	-38.7
7.3	5.3	-31.7	-37.0
7.4	5.3	-31.9	-37.2

50.0	-12.7	-42.4	-29.7
55.0	-12.7	-39.4	-26.7
60.0	-12.7	-45.4	-32.7
65.0	-12.7	-47.4	-34.7
70.0	-12.7	-46.9	-34.2
75.0	-12.7	-47.4	-34.7
80.0	-12.7	-46.9	-34.2
85.0	-12.7	-46.4	-33.7
90.0	-12.7	-44.4	-31.7
95.0	-12.7	-45.4	-32.7
100.0	-12.7	-44.4	-31.7
105.0	-12.7	-34.4	-21.7
110.0	-12.7	-36.9	-24.2
115.0	-12.7	-34.4	-21.7
120.0	-12.7	-34.4	-21.7
125.0	-12.7	-34.4	-21.7
130.0	-12.7	-34.4	-21.7
135.0	-12.7	-34.4	-21.7
140.0	-12.7	-35.4	-22.7
145.0	-12.7	-35.4	-22.7
150.0	-12.7	-34.4	-21.7
155.0	-12.7	-36.9	-24.2
160.0	-12.7	-38.4	-25.7
165.0	-12.7	-33.9	-21.2
170.0	-12.7	-36.9	-24.2
175.0	-12.7	-41.9	-29.2
180.0	-12.7	-44.4	-31.7

Exhibit B