

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Application for Special Temporary Authority (WC167)

1. Applicant

Name:	PetroCom License Corporation	Phone Number:	504-736-9400
DBA Name:		Fax Number:	504-734-6100
Street:	5901 Earhart Expressway	E-Mail:	jdenton@braodpointinc.com
City:	Harahan	State:	LA
Country:	USA	Zipcode:	70123
Attention:	Jon Denton		

With Correction



File # SES-STA-20090921-01202
Call Sign _____ Grant Date 10/5/09
(or other identifier) _____
Term Dates From 9/28/09 To: 11/26/09
Approved: Jeanette R. Spriggs

Attachment

SES-STA-20090921-01202

Condition:

All operations shall be on an unprotected and non-harmful interference basis, i.e., Petrocom License Corporation shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.

File # SES-STA-20090921-01202
Call Sign _____ Grant Date 10/15/09
From 9/28/09 To 11/26/09
Term Dates
(or other identifier)
Approved: Joanette K. Sprung



with Condition

2. Contact

Name:	Raul Magallanes	Phone Number:	281.317.1397
Company:	The Law Office of Raul Magallanes, PLLC	Fax Number:	281.271.8085
Street:	PO Box 1213	E-Mail:	info@rntelecomlaw.com
City:	Houston	State:	TX
Country:	USA	Zipcode:	77546 -
Attention:	Raul Magallanes	Relationship:	Legal Counsel

(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 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

09/28/2009

7. City/Gulf of Mexico	8. Latitude (dd mm ss.s h) 29 23 16.0 N
9. State LA	10. Longitude (dd mm ss.s h) 93 28 28.0 W
11. Please supply any need attachments. Attachment 1: Cover Letter Attachment 2: Prelim. Analysis Attachment 3: SD Tables	
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.) Application for Special Temporary Authority (WC167) <div style="border: 1px solid black; height: 100px; width: 100%;"></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. <p style="text-align: right;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>	
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.

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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.

September 21, 2009

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

Re: Request for Special Temporary Authority

Pursuant to Section 25.120(a) of the Rules and Regulations ("Regulations") of the Federal Communications Commission ("Commission"), Petrocom License Corporation ("Petrocom") 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 Petrocom plans to file an application for regular authority. Therefore, Petrocom 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, Petrocom operates a GSM cellular network in the Gulf of Mexico. Various cell towers are backhauled from Gulf of Mexico fixed platforms to inland interconnection points through satellite links. Because of damage caused by Hurricanes Ike, some of this cellular infrastructure was damaged requiring upgrade or replacement. The current application plans to use the AMC-3 (87W) satellite.

Petrocom's GSM cellular network is the only licensed cellular service in the Gulf of Mexico and is used extensively by crew members of the various oil exploration and production platforms. Some cell sites are being switched from Ku to C-band to improve reliability while others are being deployed as new sites.

In order to insure restoration of this damaged site and uninterrupted service, the requested date for prior use is September 28, 2009. 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 and the critical role of the existing earth station communications link, 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.

Sincerely,

/s/ Raul Magallanes
Attorney

September 17, 2009

*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***

19700 Janelia Farm Boulevard
Ashburn, VA 20147
(703) 726-5500
Fax (703) 726-5600
COMSEARCH®
<http://www.comsearch.com>



Re:

Petrocom License Corp.
East Cameron 167, Gulf of Mexico
C-Band Transmit-Receive Earth Station
Job Number: 090917COMSJC01

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 Petrocom License Corporation, 5901 Earhart Expressway, Harahan, Louisiana 70123 for a proposed C-band, transmit/receive earth station to be located on an oil platform designated East Cameron 167, 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 October 19, 2009.

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: 09/17/2009
 Job Number: 090917COMSJC01

Administrative Information

Status: ENGINEER PROPOSAL
 Call Sign: PETCOM
 License Code: PETCOM
 Licensee Name: PETROCOM LICENSE CORP.

Site Information

Venue Name: OIL PLATFORM
 Latitude (NAD 83): 29° 23' 16.0" N
 Longitude (NAD 83): 93° 28' 28.0" 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: 126.6° to 247.3°
 Corresponding Elevation Angles: 40.0° / 26.7°
 Antenna Centerline (AGL): 30.48 m / 100.0 ft

Antenna Information

Manufacturer: Prodelin
 Model: 1251
 Gain / Diameter: 38.0 dBi / 2.4 m
 3-dB / 15-dB Beamwidth: 2.16° / 4.00°
 Max Available RF Power (dBW/4 KHz): -21.5
 (dBW/MHz): 1.1
 Maximum EIRP (dBW/4 KHz): 20.5
 (dBW/MHz): 43.1
 (dBW): 49.1
 Interference Objectives: Long Term: -156.0 dBW/MHz 20%
 Short Term: -146.0 dBW/MHz 0.01%
 Transmit 6.1 GHz: -131.0 dBW/4 KHz 20%
 0.0025%
 725KG7W to 2M90G7W

Frequency Information

Emission / Frequency Range (MHz):
 725KG7W - 2M90G7W / 3700.0 - 4200.0
 725KG7W - 2M90G7W / 5925.0 - 5999.0
 725KG7W - 2M90G7W / 6010.0 - 6251.0
 725KG7W - 2M90G7W / 6262.0 - 6425.0
 Max Great Circle Coordination Distance: 497.9 km / 309.4 mi
 Precipitation Scatter Contour Radius: 565.7 km / 351.5 mi
 Max Great Circle Coordination Distance: 141.5 km / 87.9 mi
 Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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

Coordination Values

E. CAMERON 167, GM
 Licensee Name
 PETROCOM LICENSE CORP.
 Latitude (NAD 83)
 29° 23' 16.0" N
 Longitude (NAD 83)
 93° 28' 28.0" W
 Ground Elevation (AMSL)
 0.0 m / 0.0 ft
 Antenna Centerline (AGL)
 30.48 m / 100.0 ft
 Antenna Model
 Antenna Mode
 Prodelin 1251
 Interference Objectives: Long Term
 -156.0 dBW/MHz 20%
 Short Term
 -146.0 dBW/MHz 0.01%
 Max Available RF Power

Transmit 6.1 GHz		Receive 4.0 GHz		Antenna		Horizon	
Distance (km)	Gain (dBi)	Distance (km)	Gain (dBi)	Discrimination (°)	Elevation (°)	Azimuth (°)	
120.86	-10.00	412.20	-10.00	54.25	0.00	190	
120.86	-10.00	412.20	-10.00	52.50	0.00	195	
120.86	-10.00	412.20	-10.00	50.20	0.00	200	
120.86	-10.00	412.20	-10.00	47.44	0.00	205	
121.13	-9.90	413.39	-9.90	44.32	0.00	210	
123.25	-9.17	422.69	-9.17	40.92	0.00	215	
125.84	-8.30	433.89	-8.30	40.92	0.00	220	
128.87	-7.33	446.76	-7.33	37.42	0.00	225	
132.05	-6.36	460.02	-6.36	34.22	0.00	230	
135.19	-5.44	472.35	-5.44	31.43	0.00	235	
138.06	-4.63	484.04	-4.63	29.18	0.00	240	
140.29	-4.02	493.05	-4.02	27.58	0.00	245	
141.50	-3.69	497.92	-3.69	26.77	0.00	250	
141.44	-3.71	497.68	-3.71	26.80	0.00	255	
140.13	-4.06	492.39	-4.06	27.69	0.00	260	
137.82	-4.69	483.08	-4.69	29.35	0.00	265	
134.92	-5.51	471.23	-5.51	31.66	0.00	270	
131.76	-6.44	458.84	-6.44	34.49	0.00	275	
128.59	-7.42	445.59	-7.42	37.72	0.00	280	
125.57	-8.39	432.71	-8.39	41.26	0.00	285	
122.75	-9.34	420.51	-9.34	45.03	0.00	290	
120.86	-10.00	412.20	-10.00	48.97	0.00	295	
120.86	-10.00	412.20	-10.00	53.05	0.00	300	
120.86	-10.00	412.20	-10.00	57.23	0.00	305	
120.86	-10.00	412.20	-10.00	61.50	0.00	310	
120.86	-10.00	412.20	-10.00	65.83	0.00	315	
120.86	-10.00	412.20	-10.00	70.20	0.00	320	
120.86	-10.00	412.20	-10.00	74.61	0.00	325	
120.86	-10.00	412.20	-10.00	79.05	0.00	330	
120.86	-10.00	412.20	-10.00	83.50	0.00	335	
120.86	-10.00	412.20	-10.00	87.97	0.00	340	
120.86	-10.00	412.20	-10.00	92.43	0.00	345	
120.86	-10.00	412.20	-10.00	96.90	0.00	350	
120.86	-10.00	412.20	-10.00	101.35	0.00	355	
120.86	-10.00	412.20	-10.00	105.78	0.00	355	

Request for Routine Processing of Non-Compliant Antenna

The antenna at issue is a C-band Prodelin 1251(2.4m) ("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 - \$25.218 (h) (1)			
Antenna Manufacturer	Prodelin	Antenna Diameter	2.4 m
Antenna Model	135T	Antenna Gain	42.5 dBi
Transmit Frequency	6.245 GHz	Max EIRP Density	-21.6 dBW/4KHz

Off-Axis degrees	\$25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
1.5	21.9	-26.6	-31.9
1.6	21.2	-27.1	-32.4
1.7	20.5	-27.1	-32.4
1.8	19.9	-27.1	-32.4
1.9	19.3	-26.1	-31.4
2.0	18.8	-25.1	-30.4
2.1	18.2	-23.1	-28.4
2.2	17.7	-22.6	-27.9
2.3	17.3	-21.6	-26.9
2.4	16.8	-21.1	-26.4
2.5	16.4	-21.1	-26.4
2.6	15.9	-21.1	-26.4
2.7	15.5	-22.1	-27.4
2.8	15.1	-23.1	-28.4
2.9	14.7	-24.1	-29.4
3.0	14.4	-25.6	-30.9
3.1	14.0	-28.1	-33.4
3.2	13.7	-29.1	-34.4
3.3	13.3	-30.1	-35.2
3.4	13.0	-31.1	-36.1
3.5	12.7	-31.1	-35.9
3.6	12.4	-32.1	-36.8
3.7	12.1	-33.1	-37.7
3.8	11.8	-34.1	-38.6
3.9	11.5	-35.1	-39.5
4.0	11.2	-37.1	-41.4
4.1	11.0	-31.1	-31.0
4.2	10.7	-32.1	-35.9
4.3	10.5	-35.1	-29.4
4.4	10.2	-32.1	-24.5
4.5	10.0	-41.1	-31.8
4.6	9.7	-45.1	-34.3
4.7	9.5	-49.1	-37.1
4.8	9.3	-12.7	-32.4

Off-Axis degrees	\$25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
7.5	5.3	-26.6	-31.9
7.6	5.3	-27.1	-32.4
7.7	5.3	-27.1	-32.4
7.8	5.3	-27.1	-32.4
7.9	5.3	-26.1	-31.4
8.0	5.3	-25.1	-30.4
8.1	5.3	-23.1	-28.4
8.2	5.3	-22.6	-27.9
8.3	5.3	-21.6	-26.9
8.4	5.3	-21.1	-26.4
8.5	5.3	-21.1	-26.4
8.6	5.3	-21.1	-26.4
8.7	5.3	-22.1	-27.4
8.8	5.3	-23.1	-28.4
8.9	5.3	-24.1	-29.4
9.0	5.3	-25.6	-30.9
9.1	5.3	-28.1	-33.4
9.2	5.3	-29.1	-34.4
9.3	5.1	-30.1	-35.2
9.4	5.0	-31.1	-36.1
9.5	4.9	-31.1	-35.9
9.6	4.7	-32.1	-36.8
9.7	4.6	-33.1	-37.7
9.8	4.5	-34.1	-38.6
9.9	4.4	-35.1	-39.5
10.0	4.3	-37.1	-41.4
15.0	-0.1	-31.1	-31.0
20.0	-3.2	-39.1	-35.9
25.0	-5.6	-35.1	-29.4
30.0	-7.6	-32.1	-24.5
35.0	-9.3	-41.1	-31.8
40.0	-10.8	-45.1	-34.3
45.0	-12.0	-49.1	-37.1
50.0	-12.7	-45.1	-32.4

4.9	9.0	-31.1	-40.1
5.0	8.8	-35.1	-43.9
5.1	8.6	-35.1	-43.7
5.2	8.4	-29.1	-37.5
5.3	8.2	-28.1	-36.3
5.4	8.0	-29.1	-37.1
5.5	7.8	-33.1	-40.9
5.6	7.6	-37.1	-44.7
5.7	7.4	-41.1	-48.5
5.8	7.2	-33.1	-40.3
5.9	7.0	-28.1	-35.1
6.0	6.8	-24.1	-30.9
6.1	6.7	-22.8	-29.4
6.2	6.5	-22.8	-29.3
6.3	6.3	-22.1	-28.4
6.4	6.1	-22.8	-28.9
6.5	6.0	-23.1	-29.1
6.6	5.8	-24.1	-29.9
6.7	5.6	-26.1	-31.7
6.8	5.5	-29.1	-34.6
6.9	5.3	-35.1	-40.4
7.0	5.2	-34.1	-39.3
7.1	5.3	-31.1	-36.4
7.2	5.3	-28.6	-33.9
7.3	5.3	-27.3	-32.6
7.4	5.3	-26.9	-32.2

55.0	-12.7	-43.1	-30.4
60.0	-12.7	-43.1	-30.4
65.0	-12.7	-44.1	-31.4
70.0	-12.7	-46.1	-33.4
75.0	-12.7	-49.1	-36.4
80.0	-12.7	-50.1	-37.4
85.0	-12.7	-51.1	-38.4
90.0	-12.7	-56.1	-43.4
95.0	-12.7	-49.1	-36.4
100.0	-12.7	-36.1	-23.4
105.0	-12.7	-46.1	-33.4
110.0	-12.7	-44.1	-31.4
115.0	-12.7	-50.1	-37.4
120.0	-12.7	-53.1	-40.4
125.0	-12.7	-38.1	-25.4
130.0	-12.7	-39.1	-26.4
135.0	-12.7	-36.1	-23.4
140.0	-12.7	-39.1	-26.4
145.0	-12.7	-29.1	-16.4
150.0	-12.7	-29.1	-16.4
155.0	-12.7	-33.1	-20.4
160.0	-12.7	-37.1	-24.4
165.0	-12.7	-31.1	-18.4
170.0	-12.7	-28.1	-15.4
175.0	-12.7	-35.1	-22.4
180.0	-12.7	-20.1	-7.4

EIRP DENSITY TABLE, ELEVATION - §25.218 (h) (2)			
Antenna Manufacturer	Prodelin	Antenna Diameter	2.4 m
Antenna Model	1351	Antenna Gain	42.5 dBi
Transmit Frequency	6.245 GHz	Max EIRP Density	-21.6 dBW/4KHz

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
1.5	24.9	-31.1	-40.7
1.6	24.2	-25.1	-34.6
1.7	23.5	-22.1	-31.4
1.8	22.9	-20.1	-29.2
1.9	22.3	-18.6	-27.6
2.0	21.8	-18.1	-26.9
2.1	21.2	-18.1	-26.7
2.2	20.7	-18.6	-27.1
2.3	20.3	-19.1	-27.4
2.4	19.8	-19.6	-27.8
2.5	19.4	-20.1	-28.1
2.6	18.9	-20.6	-28.4
2.7	18.5	-20.6	-28.3
2.8	18.1	-21.1	-28.7
2.9	17.7	-21.1	-28.5
3.0	17.4	-21.1	-28.4
3.1	17.0	-21.6	-28.7
3.2	16.7	-22.1	-29.1
3.3	16.3	-22.6	-29.4
3.4	16.0	-23.1	-29.8
3.5	15.7	-23.6	-30.2
3.6	15.4	-23.1	-29.5
3.7	15.1	-22.1	-28.4
3.8	14.8	-21.1	-27.3
3.9	14.5	-20.1	-26.1
4.0	14.2	-19.1	-25.0
4.1	14.0	-18.6	-24.4
4.2	13.7	-18.6	-24.3
4.3	13.5	-19.1	-24.6
4.4	13.2	-19.1	-24.5
4.5	13.0	-21.1	-26.4
4.6	12.7	-22.1	-27.3
4.7	12.5	-26.6	-31.7
4.8	12.3	-24.1	-29.1

Off-Axis degrees	§25.218 SD (dBW/4KHz)	Actual SD (dBW/4KHz)	Margin (dB)
6.1	9.7	-31.1	-40.7
6.2	9.5	-25.1	-34.6
6.3	9.3	-22.1	-31.4
6.4	9.1	-20.1	-29.2
6.5	9.0	-18.6	-27.6
6.6	8.8	-18.1	-26.9
6.7	8.6	-18.1	-26.7
6.8	8.5	-18.6	-27.1
6.9	8.3	-19.1	-27.4
7.0	8.2	-19.6	-27.8
7.1	8.0	-20.1	-28.1
7.2	7.9	-20.6	-28.4
7.3	7.7	-20.6	-28.3
7.4	7.6	-21.1	-28.7
7.5	7.4	-21.1	-28.5
7.6	7.3	-21.1	-28.4
7.7	7.1	-21.6	-28.7
7.8	7.0	-22.1	-29.1
7.9	6.9	-22.6	-29.4
8.0	6.7	-23.1	-29.8
8.1	6.6	-23.6	-30.2
8.2	6.5	-23.1	-29.5
8.3	6.3	-22.1	-28.4
8.4	6.2	-21.1	-27.3
8.5	6.1	-20.1	-26.1
8.6	5.9	-19.1	-25.0
8.7	5.8	-18.6	-24.4
8.8	5.7	-18.6	-24.3
8.9	5.6	-19.1	-24.6
9.0	5.4	-19.1	-24.5
9.1	5.3	-21.1	-26.4
9.2	5.2	-22.1	-27.3
9.3	5.1	-26.6	-31.7
9.4	5.0	-24.1	-29.1

A horizon gain table was generated for this particular location and satellite arc, as part of the frequency coordination report included with the underlying application.

EIRP DENSITY TABLE, HORIZON - §25.218 (h) (3)			
Antenna Manufacturer	Prodelin	Antenna Diameter	2.4 M
Antenna Model	1351	Antenna Gain	42.5 dBi
Transmit Frequency	6.245 GHz	Max EIRP Density	-21.6 dBW/4KHz

4.9	12.0	-26.1	-38.1
5.0	11.8	-28.6	-40.4
5.1	11.6	-24.1	-35.7
5.2	11.4	-21.1	-32.5
5.3	11.2	-19.6	-30.8
5.4	11.0	-18.6	-29.6
5.5	10.8	-18.1	-28.9
5.6	10.6	-19.1	-29.7
5.7	10.4	-20.1	-30.5
5.8	10.2	-23.1	-33.3
5.9	10.0	-27.1	-37.1
6.0	9.8	-32.1	-41.9
9.5	4.9	-25.2	-30.0
9.6	4.7	-26.7	-31.4
9.7	4.6	-26.7	-31.3
9.8	4.5	-29.1	-33.6
9.9	4.4	-29.6	-34.0
10.0	4.3	-30.2	-34.5
15.0	-0.1	-31.6	-31.5
20.0	-3.2	-41.1	-37.9
25.0	-5.6	-35.1	-29.4
30.0	-7.6	-39.1	-31.5
35.0	-9.3	-44.1	-34.8
40.0	-10.8	-38.1	-27.3
45.0	-12.0	-39.1	-27.1