

**COMSEARCH**

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

Prepared For  
**PanAmSat Licensee Corp.**  
**FILLMORE, CALIFORNIA**

Temporary Transmit/Receive Earth Station  
Operation Dates: 11/10/2010 - 05/10/2010

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. Verbal and written coordination was conducted with the below listed carriers on August 1, 2010.

Company

ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T California  
Abraham Divestiture Company LLC  
AirSites2000, LLC  
American Tower, LLC  
BNSF Railway Company  
Bishop Union High School  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Cellco Partnership - California  
Chevron USA Inc.  
Coachella Valley Water District  
Cox Communications - San Diego Mkt  
Ducor Telephone Company  
Exxon Communications Company  
Federal Communications Commission  
Fresno MSA Limited Partnership  
Fresno, County of  
GTE Mobilnet of California LTD Partnersh  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
INTERCONNECT TOWERS, LLC  
KERN COMMUNITY COLLEGE DISTRICT BAKERSFI  
KERN ED TELECOM CONSORTIUM  
KTLA INC  
Kern, County of  
Kings County Office of Education  
LB Tower Company LLC  
LOS ANGELES CITY WATER & POWER  
LOS ANGELES UNIFIED SCHOOL DISTRICT

Company (Continued)

Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
M.U.T. Licensing, LLC  
METROPOLITAN AREA NETWORKS, INC.  
METROPOLITAN WATER DIST OF SO CALIFORNIA  
MONTEBELLO CITY CALIFORNIA  
Microwave Service Company  
NEXTEL OF CALIFORNIA INC  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
New Cingular Wireless PCS LLC -San Diego  
Nextweb Inc  
Northrop Grumman Information Technology  
OCCIDENTAL OF ELK HILLS INC  
ORANGE, COUNTY OF, CA  
Pacific Gas and Electric Company  
Paramount Farming Company, LLC.  
Plains Exploration & Production Company  
QUALCOMM INC.  
RIVERSIDE COUNTY OF  
Regional 3Cs  
SAN DIEGO COUNTY  
SAN DIEGO, CITY OF  
SAN LUIS OBISPO COUNTY  
SKYRIVER COMMUNICATIONS  
San Bernardino County of California  
San Diego Gas & Electric Company  
Santa Barbara Cellular Systems, Ltd.  
Southern California Edison Company  
Southern California Gas Company  
T-Mobile License LLC  
TULARE, COUNTY OF  
TV MICROWAVES CO  
Turn Wireless, LLC  
University of California,HPWREN  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Verizon Wireless VAW LLC (OR, HI)  
Vintage Production California LLC  
Visalia Cellular Telephone Company  
WWC License L.L.C.  
Western Technical Services

There are no unresolved interference objections with the stations contained in these applications.

The following 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: 03/10/2010  
Job Number: 100301COMSJC02

---

### Administrative Information

Status: TEMPORARY (Operation from 11/10/2010 to 05/10/2011)  
Call Sign: TEMP05  
Licensee Code: PANAS  
Licensee Name: PanAmSat Licensee Corp

---

### Site Information

**FILLMORE, CALIFORNIA**  
Venue Name  
Latitude (NAD 83): 34° 24' 22.0" N  
Longitude (NAD 83): 118° 53' 37.4" W  
Climate Zone: A  
Rain Zone: 4  
Ground Elevation (AMSL): 313.94 m / 1030.0 ft

---

### Link Information

Satellite Type: Low Earth Orbit  
Mode: TR - Transmit-Receive  
Modulation: Analog and Digital  
Minimum Elevation Angle: 5.0°  
Azimuth Range: 0.0° to 360°  
Antenna Centerline (AGL): 8.23 m / 27.0 ft

---

### Antenna Information

		<b>Receive</b>		<b>Transmit</b>	
Manufacturer		Scientific-Atlanta		Scientific-Atlanta	
Model		10.3 Meter		10.3 Meter	
Gain / Diameter		50.5 dBi / 10.3 m		53.8 dBi / 10.3 m	
3-dB / 15-dB Beamwidth		0.40° / 1.00°		0.40° / 0.60°	
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			10.9 34.2	
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)			64.7 88.0 88.0	
Interference Objectives:	Long Term Short Term	-156.0 dBW/MHz -146.0 dBW/MHz	20% 0.01%	-154.0 dBW/4 kHz -131.0 dBW/4 kHz	20% 0.0025%

---

### Frequency Information

	<b>Receive 4.0 GHz</b>	<b>Transmit 6.1 GHz</b>
Emission / Frequency Range (MHz)	180KFXD / 3947.5 180KFXD / 3952.5	850KFXD / 6173.7 850KFXD / 6176.3
Max Great Circle Coordination Distance	465.6 km / 289.3 mi	347.9 km / 216.2 mi
Precipitation Scatter Contour Radius	350.4 km / 217.7 mi	325.4 km / 202.2 mi

# COMSEARCH

## Earth Station Data Sheet

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

### Coordination Values

### FILLMORE, CA

Licensee Name PanAmSat Licensee Corp  
Latitude (NAD 83) 34° 24' 22.0" N  
Longitude (NAD 83) 118° 53' 37.4" W  
Ground Elevation (AMSL) 313.94 m / 1030.0 ft  
Antenna Centerline (AGL) 8.23 m / 27.0 ft  
Antenna Model Scientific-Atlanta 10.3 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 10.9 (dBW/4 kHz)

Azimuth (°)	Receive 4.0 GHz		Transmit 6.1 GHz			
	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	9.46	76.90	-10.00	373.70	-10.00	256.40
5	9.82	73.29	-10.00	373.70	-10.00	256.40
10	11.85	70.32	-10.00	373.70	-10.00	256.40
15	10.92	66.54	-10.00	373.70	-10.00	256.40
20	12.90	64.07	-10.00	373.70	-10.00	256.40
25	13.86	61.47	-10.00	373.70	-10.00	256.40
30	11.04	56.88	-10.00	373.70	-10.00	256.40
35	11.06	53.98	-10.00	373.70	-10.00	256.40
40	11.15	51.35	-10.00	373.70	-10.00	256.40
45	12.08	49.66	-10.00	373.70	-10.00	256.40
50	12.02	47.53	-10.00	373.70	-10.00	256.40
55	12.03	45.81	-10.00	373.70	-10.00	256.40
60	11.89	44.32	-10.00	373.70	-10.00	256.40
65	10.11	41.64	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.10	41.10	-7.96	386.60	-7.96	269.20
80	8.88	40.38	-4.20	410.40	-4.20	292.90
85	8.89	41.39	0.77	441.80	0.77	324.20
90	6.31	40.55	4.53	456.60	4.53	347.90
95	6.30	42.57	4.53	456.60	4.53	347.90
100	6.30	44.99	4.53	456.60	4.53	347.90
105	6.32	47.74	4.53	456.60	4.53	347.90
110	5.84	50.44	4.53	456.60	4.53	347.90
115	3.99	52.69	4.53	456.60	4.53	347.90
120	2.01	55.33	4.53	456.60	4.53	347.90
125	1.94	59.11	4.53	456.60	4.53	347.90
130	2.44	63.20	4.53	456.60	4.53	347.90
135	2.70	67.25	4.53	456.60	4.53	347.90
140	2.67	71.27	4.53	456.60	4.53	347.90
145	2.73	75.36	4.53	456.60	4.53	347.90
150	2.63	79.46	4.53	456.60	4.53	347.90
155	3.07	83.64	4.53	456.60	4.53	347.90
160	2.85	87.77	4.53	456.60	4.53	347.90
165	3.41	91.91	4.53	456.60	4.53	347.90
170	3.29	96.04	4.53	456.60	4.53	347.90
175	3.00	100.19	4.53	456.60	4.53	347.90
180	2.53	104.38	4.53	456.60	4.53	347.90
185	2.35	108.51	4.53	456.60	4.53	347.90

# COMSEARCH

## Earth Station Data Sheet

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

### Coordination Values

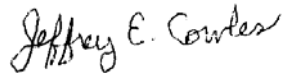
### FILLMORE, CA

Licensee Name PanAmSat Licensee Corp  
Latitude (NAD 83) 34° 24' 22.0" N  
Longitude (NAD 83) 118° 53' 37.4" W  
Ground Elevation (AMSL) 313.94 m / 1030.0 ft  
Antenna Centerline (AGL) 8.23 m / 27.0 ft  
Antenna Model Scientific-Atlanta 10.3 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 10.9 (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)
190	2.29	112.57	4.53	456.60	4.53	347.90
195	0.78	117.05	4.53	456.60	4.53	347.90
200	0.26	121.23	4.53	456.60	4.53	347.90
205	1.27	124.72	4.53	456.60	4.53	347.90
210	0.97	128.61	4.53	456.60	4.53	347.90
215	0.87	132.26	4.53	456.60	4.53	347.90
220	0.00	136.21	4.53	456.60	4.53	347.90
225	0.00	139.42	4.53	456.60	4.53	347.90
230	0.00	142.31	4.53	456.60	4.53	347.90
235	0.00	144.80	4.53	456.60	4.53	347.90
240	0.00	146.79	4.53	456.60	4.53	347.90
245	0.00	148.21	4.53	456.60	4.53	347.90
250	0.00	148.95	4.53	456.60	4.53	347.90
255	0.00	148.97	4.53	456.60	4.53	347.90
260	0.00	148.28	4.53	456.60	4.53	347.90
265	0.00	146.92	4.53	456.60	4.53	347.90
270	0.00	144.96	4.53	465.60	4.53	347.90
275	1.12	141.62	0.77	441.80	0.77	324.20
280	1.30	138.71	-4.20	410.80	-4.20	292.90
285	2.87	134.60	-7.96	386.60	-7.96	269.20
290	4.19	130.57	-10.00	373.70	-10.00	256.40
295	4.03	127.29	-10.00	373.70	-10.00	256.40
300	4.42	123.56	-10.00	373.70	-10.00	256.40
305	3.80	120.15	-10.00	373.70	-10.00	256.40
310	3.10	116.58	-10.00	373.70	-10.00	256.40
315	2.76	112.74	-10.00	373.70	-10.00	256.40
320	3.32	108.58	-10.00	373.70	-10.00	256.40
325	4.76	104.28	-10.00	373.70	-10.00	256.40
330	5.94	100.11	-10.00	373.70	-10.00	256.40
335	7.80	95.98	-10.00	373.70	-10.00	256.40
340	8.26	92.08	-10.00	373.70	-10.00	256.40
345	9.32	88.23	-10.00	373.70	-10.00	256.40
350	9.66	84.45	-10.00	373.70	-10.00	256.40
355	9.64	80.68	-10.00	373.70	-10.00	256.40

## Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

A handwritten signature in cursive script that reads "Jeffrey E. Cowles".

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

DATED: September 20, 2010