

Prepared By

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: 03/30/2010 - 09/30/2010

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 March 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
CARITAS TELECOMMUNICATIONS
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 Ptsh
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

Company

LOS ANGELES CITY WATER & POWER
LOS ANGELES UNIFIED SCHOOL DISTRICT
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
SAN DIEGO COUNTY
SAN DIEGO, CITY OF
SAN LUIS OBISPO COUNTY
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)
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.

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Earth Station Data Sheet

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Date: 03/10/2010
Job Number: 100301COMSJC02

Administrative Information

Status: TEMPORARY (Operation from 03/30/2010 to 09/30/2010)
Call Sign: TEMP09
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

Receive

Transmit

Manufacturer: Scientific-Atlanta
Model: 10.3 Meter
Gain / Diameter: 50.5 dBi / 10.3 m
3-dB / 15-dB Beamwidth: 0.40° / 1.00°

Scientific-Atlanta
10.3 Meter
53.8 dBi / 10.3 m
0.40° / 0.60°

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

10.9
34.9

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

64.7
88.7
88.0

Interference Objectives: Long Term -152.0 dBW/MHz 20%
Short Term -131.0 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)

180KFXD / 3700.5
180KFXD / 4199.5

850KFXD / 6423.5

Max Great Circle Coordination Distance
Precipitation Scatter Contour Radius

465.6 km / 289.3 mi
265.3 km / 164.8 mi

347.9 km / 216.2 mi
325.4 km / 202.2 mi

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Earth Station Data Sheet

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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	-152.0 dBW/MHz	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/MHz	-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)
0	9.46	76.90	-10.00	373.70	-10.00	256.40
5	9.82	73.28	-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	41.65	-10.00	373.70	-10.00	256.40
70	10.13	41.15	-10.00	373.70	-10.00	256.40
75	10.10	41.11	-7.96	386.60	-7.96	269.20
80	8.88	40.38	-4.20	410.40	-4.20	292.90
85	8.89	41.40	0.77	441.80	0.77	324.20
90	6.31	40.55	4.53	456.60	4.53	347.90
95	6.30	42.58	4.53	456.60	4.53	347.90
100	6.30	44.98	4.53	456.60	4.53	347.90
105	6.32	47.74	4.53	456.60	4.53	347.90
110	5.84	50.43	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

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Coordination Values

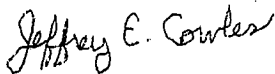
FILLMORE, CA

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Interference Objectives:	Long Term	-152.0 dBW/MHz	20%
	Short Term	-131.0 dBW/MHz	0.01%
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	138.72	-4.20	410.80	-4.20	292.90
285	2.87	134.59	-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.



Jeffrey E. Cowles
Principal Frequency Planner
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DATED: March 10, 2010