

Prepared By

## **COMSEARCH**

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

Prepared For

### **Stratos Offshore Services Company Concord, California**

Temporary Transmit-Only Earth Station  
Operation Dates: 10/19/2012 - 12/01/2012

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 September 28, 2012.

#### Company

AT&T California  
AT&T Mobility Wireless Operations Hldgs  
Alameda County of California  
American Tower, LLC  
BayRICS Joint Powers Authority  
CBS Broadcasting Inc  
CONTRA COSTA COUNTY COMMUNICATIONS DEPT.  
CRYSTAL SMR INC.  
California, State of  
Cellco Partnership - California  
City & County of San Francisco PUC  
County of San Mateo  
EAST BAY MUNICIPAL UTILITY DISTRICT  
Federal Communications Commission  
GTE Mobilnet of California LTD Partnersh  
ICG Telecom Group, Inc. - Debtor in poss  
KQED INC  
M.U.T. Licensing, LLC  
MODESTO IRRIGATION DISTRICT  
Marin County of California  
Napa, County of  
New Cingular Wireless PCS LLC - N CAL  
Pacific Gas and Electric Company  
ROMAN CATHOLIC COMMUNICATIONS CORP  
SAN FRANCISCO CITY & COUNTY CALIFORNIA  
SAN JOSE CITY OF (ECOMM)  
SANTA CRUZ COUNTY, CALIFORNIA  
Sacramento County  
Sacramento Municipal Utility District  
Sacramento Valley Limited Partnership

Company (Continued)

San Joaquin County  
Santa Clara Valley Water District  
Santa Clara, County of  
Solano County Communications Division  
Sonoma County, California  
Union Pacific Railroad Company  
Western Technical Services  
Yolo Emergency Communications Agency  
Yolo, County of

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

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Date: 07/12/2012  
Job Number: 120709COMSJC02

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### Administrative Information

Status: TEMPORARY (Operation from 10/19/2012 to 12/01/2012)  
Call Sign: TEMP12  
Licensee Code: SHELOF  
Licensee Name: Stratos Offshore Services Company

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### Site Information

**CONCORD, CALIFORNIA**

Venue Name  
Latitude (NAD 83): 38° 0' 24.1" N  
Longitude (NAD 83): 122° 2' 37.1" W  
Climate Zone: A  
Rain Zone: 3  
Ground Elevation (AMSL): 10.97 m / 36.0 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TO - Transmit-Only  
Modulation: Digital  
Satellite Arc: 87° W to 88° West Longitude  
Azimuth Range: 131.3° to 132.3°  
Corresponding Elevation Angles: 32.9° / 33.5°  
Antenna Centerline (AGL): 2.44 m / 8.0 ft

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### Antenna Information

**Transmit - FCC32**

Manufacturer: SeaTel  
Model: 9797  
Gain / Diameter: 42.1 dBi / 2.4 m  
3-dB / 15-dB Beamwidth: 1.40° / 2.65°

Max Available RF Power (dBW/4 kHz): -23.5  
(dBW/MHz): 0.5

Maximum EIRP (dBW/4 kHz): 18.6  
(dBW/MHz): 42.6  
(dBW): 30.4

Interference Objectives: Long Term: -154.0 dBW/4 kHz 20%  
Short Term: -131.0 dBW/4 kHz 0.0025%

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### Frequency Information

**Transmit 6.1 GHz**

Emission / Frequency Range (MHz): 61K0G7W / 6247.0 - 6270

Max Great Circle Coordination Distance: 108.2 km / 67.2 mi  
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

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## Earth Station Data Sheet

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<b>Coordination Values</b>	<b>CONCORD, CA</b>	
Licensee Name	Stratos Offshore Services Company	
Latitude (NAD 83)	38° 0' 24.1" N	
Longitude (NAD 83)	122° 2' 37.1" W	
Ground Elevation (AMSL)	10.97 m / 36.0 ft	
Antenna Centerline (AGL)	2.44 m / 8.0 ft	
Antenna Model	SeaTel 9797	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-23.5 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	123.65	-10.00	108.20
5	0.00	119.80	-10.00	108.20
10	0.00	115.86	-10.00	108.20
15	0.00	111.83	-10.00	108.20
20	0.46	107.84	-10.00	100.00
25	0.83	103.75	-10.00	100.00
30	1.59	99.63	-10.00	100.00
35	2.64	95.43	-10.00	100.00
40	2.63	91.11	-10.00	100.00
45	2.83	86.78	-10.00	100.00
50	2.71	82.47	-10.00	100.00
55	2.71	78.17	-10.00	100.00
60	2.25	73.97	-10.00	100.00
65	1.77	69.86	-10.00	100.00
70	1.74	65.72	-10.00	100.00
75	1.58	61.69	-10.00	100.00
80	1.93	57.56	-10.00	100.00
85	2.10	53.58	-10.00	100.00
90	2.28	49.70	-10.00	100.00
95	2.04	46.20	-9.62	100.00
100	2.00	42.82	-8.79	100.00
105	1.71	39.89	-8.02	100.00
110	0.81	37.85	-7.45	100.00
115	0.60	35.75	-6.83	100.00
120	0.45	34.13	-6.33	100.00
125	0.40	33.02	-5.97	102.69
130	0.40	32.50	-5.80	102.75
135	0.39	32.67	-5.85	103.15
140	0.60	33.31	-6.07	100.00
145	0.63	34.75	-6.52	100.00
150	0.82	36.61	-7.09	100.00
155	0.64	39.19	-7.83	100.00
160	0.69	41.90	-8.55	100.00
165	0.32	45.21	-9.38	100.28
170	0.36	48.48	-10.00	100.00
175	0.36	51.99	-10.00	100.00
180	0.36	55.67	-10.00	100.00

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Antenna Centerline (AGL)	2.44 m / 8.0 ft	
Antenna Model	Seatel 9797	
Antenna Mode	Transmit 6.1 GHz	
Interference Objectives: Long Term	-154.0 dBW/4 kHz	20%
Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	-23.5 (dBW/4 kHz)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	0.38	59.47	-10.00	100.00
190	0.39	63.38	-10.00	100.00
195	0.39	67.37	-10.00	100.00
200	0.31	71.45	-10.00	100.00
205	0.26	75.56	-10.00	103.43
210	0.36	79.69	-10.00	100.00
215	0.60	83.84	-10.00	100.00
220	0.95	88.02	-10.00	100.00
225	0.85	92.23	-10.00	100.00
230	1.00	96.45	-10.00	100.00
235	1.38	100.69	-10.00	100.00
240	1.36	104.87	-10.00	100.00
245	0.95	108.94	-10.00	100.00
250	1.03	113.05	-10.00	100.00
255	1.28	117.15	-10.00	100.00
260	0.97	120.99	-10.00	100.00
265	0.90	124.80	-10.00	100.00
270	0.63	128.36	-10.00	100.00
275	1.00	132.09	-10.00	100.00
280	0.95	135.39	-10.00	100.00
285	0.85	138.39	-10.00	100.00
290	0.92	141.18	-10.00	100.00
295	0.40	143.08	-10.00	100.00
300	0.23	144.74	-10.00	105.85
305	0.00	145.78	-10.00	108.20
310	0.00	146.41	-10.00	108.20
315	0.00	146.39	-10.00	108.20
320	0.00	145.72	-10.00	108.20
325	0.00	144.44	-10.00	108.20
330	0.00	142.60	-10.00	108.20
335	0.00	140.26	-10.00	108.20
340	0.00	137.44	-10.00	108.20
345	0.00	134.31	-10.00	108.20
350	0.00	130.94	-10.00	108.20
355	0.00	127.37	-10.00	108.20

## 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  
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COMSEARCH  
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Ashburn, Va. 20147

DATED: October 3, 2012