

Prepared By

**COMSEARCH**

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

Prepared For

**SES Americom, Inc**

Temporary Transmit/Receive Earth Station  
Operation Dates: 01/29/2009 - 07/29/2009

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station (KB27) proposed in this application was coordinated by Comsearch for temporary operations 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 January 23, 2009.

Company

AT&T California  
AirSites2000, LLC  
American Tower, LLC  
California, State of  
Exxon Communications Company  
Federal Communications Commission  
Fresno MSA Limited Partnership  
GTE Mobilnet of Santa Barbara LTD Ptnsh  
KERN COUNTY CALIFORNIA  
KTLA INC  
LB Tower Company LLC  
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  
Nextweb Inc  
Santa Barbara Cellular Systems, Ltd.  
Southern California Edison Company  
Southern California Gas Company  
TV MICROWAVES CO

Company (Continued)

Ventura, County of  
Verizon California Inc.  
Vintage Production California LLC  
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: 01/23/2009  
Job Number: 090123COMSJC01

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### Administrative Information

Status: TEMPORARY (Operation from 01/29/2009 to 07/29/2009)  
Call Sign: TEMP07  
Licensee Code: P3210  
Licensee Name: SES Americom, Inc.

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### Site Information

**MOORPARK, CALIFORNIA**  
Venue Name  
Latitude (NAD 83): 34° 19' 31.0" N  
Longitude (NAD 83): 118° 59' 44.4" W  
Climate Zone: A  
Rain Zone: 4  
Ground Elevation (AMSL): 307.9 m / 1010.2 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TR - Transmit-Receive  
Modulation: Digital  
Satellite Arc: 173° W to 177° West Longitude  
Azimuth Range: 247.7° to 250.6°  
Corresponding Elevation Angles: 20.9° / 17.7°  
Antenna Centerline (AGL): 14.9 m / 48.9 ft

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### Antenna Information

	Receive	Transmit
Manufacturer	Vertex Corporation	Vertex Corporation
Model	13 KPC	13 KPC
Gain / Diameter	53.5 dBi / 13.0 m	56.8 dBi / 13.0 m
3-dB / 15-dB Beamwidth	0.37° / 0.78°	0.26° / 0.52°
Max Available RF Power (dBW/4 kHz) (dBW/MHz)		7.0 31.0
Maximum EIRP (dBW/4 kHz) (dBW/MHz)		63.8 87.8
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%

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### Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	144KG2D / 3951.5 144KG2D / 3952.0 144KG2D / 3952.5	1M00F8W / 6172.1 1M00F8W / 6173.7 1M00F8W / 6175.3
Max Great Circle Coordination Distance	285.3 km / 177.2 mi	206.3 km / 128.2 mi
Precipitation Scatter Contour Radius	372.3 km / 231.3 mi	251.4 km / 156.2 mi

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## Earth Station Data Sheet

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### Coordination Values

### MOORPARK, CA

Licensee Name SES Americom, Inc.  
Latitude (NAD 83) 34° 19' 31.0" N  
Longitude (NAD 83) 118° 59' 44.4" W  
Ground Elevation (AMSL) 307.9 m / 1010.2 ft  
Antenna Centerline (AGL) 14.9 m / 48.9 ft  
Antenna Model Vertex Corporation 13 KPC  
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 7.0 (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	14.34	109.38	-10.00	100.00	-10.00	100.00
5	14.25	114.36	-10.00	100.00	-10.00	100.00
10	13.69	119.33	-10.00	100.00	-10.00	100.00
15	10.79	124.13	-10.00	100.00	-10.00	100.00
20	12.02	129.18	-10.00	100.00	-10.00	100.00
25	12.23	134.16	-10.00	100.00	-10.00	100.00
30	11.42	139.01	-10.00	100.00	-10.00	100.00
35	11.43	143.94	-10.00	100.00	-10.00	100.00
40	8.86	148.29	-10.00	100.00	-10.00	100.00
45	8.82	153.02	-10.00	100.00	-10.00	100.00
50	9.60	157.95	-10.00	100.00	-10.00	100.00
55	9.59	162.49	-10.00	100.00	-10.00	100.00
60	10.66	167.19	-10.00	100.00	-10.00	100.00
65	12.33	171.00	-10.00	100.00	-10.00	100.00
70	12.83	171.60	-10.00	100.00	-10.00	100.00
75	12.13	168.61	-10.00	100.00	-10.00	100.00
80	10.64	164.04	-10.00	100.00	-10.00	100.00
85	8.83	159.02	-10.00	100.00	-10.00	100.00
90	7.65	154.24	-10.00	107.47	-10.00	100.00
95	8.40	150.19	-10.00	100.31	-10.00	100.00
100	8.66	145.71	-10.00	100.00	-10.00	100.00
105	8.05	140.87	-10.00	103.37	-10.00	100.00
110	6.59	135.80	-10.00	118.71	-10.00	100.00
115	6.36	131.05	-10.00	121.22	-10.00	100.00
120	5.05	126.05	-10.00	134.34	-10.00	100.00
125	5.87	121.47	-10.00	126.46	-10.00	100.00
130	5.88	116.70	-10.00	126.41	-10.00	100.00
135	7.24	112.04	-10.00	111.75	-10.00	100.00
140	6.26	107.13	-10.00	122.33	-10.00	100.00
145	6.84	102.33	-10.00	116.00	-10.00	100.00
150	6.83	97.49	-10.00	116.19	-10.00	100.00
155	5.49	92.62	-10.00	130.09	-10.00	100.00
160	6.66	87.79	-10.00	118.05	-10.00	100.00
165	5.63	82.98	-10.00	128.78	-10.00	100.00
170	3.29	78.31	-10.00	163.07	-10.00	100.00
175	0.59	73.83	-10.00	244.13	-10.00	173.90
180	0.00	69.26	-10.00	285.28	-10.00	206.33
185	0.00	64.65	-10.00	285.28	-10.00	206.33

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### Coordination Values

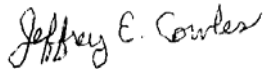
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Interference Objectives: Long Term -156.0 dBW/MHz 20% -154.0 dBW/4 kHz 20%  
Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power 7.0 (dBW/4 kHz)

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	0.00	60.08	-10.00	285.28	-10.00	206.33
195	0.53	55.41	-10.00	248.12	-10.00	177.57
200	1.78	50.54	-10.00	200.53	-10.00	129.83
205	2.72	45.74	-9.51	180.48	-9.51	112.40
210	2.91	41.21	-8.38	181.75	-8.38	113.04
215	3.80	36.48	-7.05	166.81	-7.05	102.09
220	3.25	32.49	-5.79	187.19	-5.79	116.74
225	0.69	30.06	-4.95	268.58	-4.95	190.70
230	1.31	26.05	-3.39	247.15	-3.39	171.23
235	1.78	22.12	-1.62	242.23	-1.62	163.47
240	3.25	17.82	0.73	218.49	0.73	140.22
245	4.65	14.14	3.24	206.49	3.24	129.29
250	6.00	11.68	5.31	204.30	5.31	123.42
255	6.74	11.77	5.23	194.43	5.23	115.00
260	8.02	13.45	3.79	167.00	3.79	100.00
265	6.48	18.17	0.52	169.71	0.52	100.00
270	4.98	23.05	-2.07	174.26	-2.07	104.11
275	7.17	26.44	-3.56	137.65	-3.56	100.00
280	9.33	30.46	-5.09	112.06	-5.09	100.00
285	10.75	35.01	-6.61	100.00	-6.61	100.00
290	10.40	39.97	-8.04	100.00	-8.04	100.00
295	9.95	44.94	-9.31	100.00	-9.31	100.00
300	10.73	49.77	-10.00	100.00	-10.00	100.00
305	10.30	54.75	-10.00	100.00	-10.00	100.00
310	12.12	59.57	-10.00	100.00	-10.00	100.00
315	12.25	64.53	-10.00	100.00	-10.00	100.00
320	13.24	69.47	-10.00	100.00	-10.00	100.00
325	12.96	74.46	-10.00	100.00	-10.00	100.00
330	14.03	79.43	-10.00	100.00	-10.00	100.00
335	14.09	84.42	-10.00	100.00	-10.00	100.00
340	13.73	89.41	-10.00	100.00	-10.00	100.00
345	13.71	94.40	-10.00	100.00	-10.00	100.00
350	14.59	99.40	-10.00	100.00	-10.00	100.00
355	15.67	104.40	-10.00	100.00	-10.00	100.00

## 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  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Va. 20147

DATED: January 26, 2008