

Prepared By

## **COMSEARCH**

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

Prepared For

### **SES Americom New York City, New York**

Temporary Transmit/Receive Earth Station  
Operation Dates: 12/06/2011 - 12/09/2011

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 November 23, 2011.

#### Company

AB Services LLC  
ALGONQUIN GAS TRANSMISSION CO  
AT&T CORP  
Aerbender, LLC  
Auburn Data Systems, LLC  
BFI Licenses, LLC  
CONSOLIDATED EDISON COMPANY OF NEW YORK  
Capital Communications of America  
Cellco Partnership - (W-NY)  
Cellco Partnership-Newark-Dallas Verizon  
Commonwealth of Pennsylvania-Radio Proj.  
Comprehensive Wireless LLC  
Coral Reef Technologies Ltd  
Coralinks  
County of Warren  
Direct Broadcast Services, Inc.  
ECW Wireless, LLC  
EG Broadcast Newco Corp  
Eastern Mlg  
Essex County Sherrif Office  
FELHC, Inc.  
Federal Communications Commission  
Fibertrack, LLC  
Fleet Systems, LLC  
Fundamental Broadcasting LLC  
Garden State Transmissions  
Geneva Communications, LLC  
Goosetown Network Services, LLC  
Jefferson Microwave, LLC  
Kryptic Technologies

Company (Continued)

M-Wave Networks LLC  
MCI Communications Services Inc.  
METROPOLITAN AREA NETWORKS, INC.  
MVC Research. LLC  
Meridian Microwave  
NBC TELEMUNDO LICENSE CO.  
NEW JERSEY TRANSIT RAIL OPERATIONS, INC  
NEW YORK CITY POLICE DEPARTMENT  
NORTHEAST UTILITIES SERVICE COMPANY  
Nassau County Police Department  
New Cingular Wireless PCS LLC -NJ  
New Cingular Wireless PCS LLC -NE Reg  
New Cingular Wireless PCS of PA LLC  
New Cingular Wireless PCS, LLC - NY  
New Jersey State Police  
New Jersey Turnpike Authority-Pkwy Div  
New Jersey, State of -NJ Transit  
New York Communications CO., Inc  
New York, City of  
Newgig Networks, LLC  
OCEAN, COUNTY OF  
Ocean, County of-Div of Wireless Tech.  
Orange Poughkeepsie SMSA LTD Partnership  
Orange and Rockland Utilities, Inc.  
PENNSYLVANIA TURNPIKE COMMISSION  
PSEG Services Corporation  
Pike, County of PA  
SBA Broadband Services  
SW Networks  
South Canaan Cellular Communications Co.  
Stevens Institute of Technology  
Suffolk, County of  
Texas Eastern Communications, Inc.  
Weblin Holdings LLC  
Wireless Backhaul Infrastructure, LLC  
World Class Wireless LLC  
iSignal

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: 11/30/2011  
Job Number: 111123COMSJC01

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### Administrative Information

Status: TEMPORARY (Operation from 12/06/2011 to 12/09/2011)  
Call Sign: TEMP12  
Licensee Code: P3210  
Licensee Name: SES Americom, Inc.

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### Site Information

**NEW YORK CITY, NEW YORK**

Venue Name:  
Latitude (NAD 83): 40° 45' 3.3" N  
Longitude (NAD 83): 73° 57' 56.4" W  
Climate Zone: A  
Rain Zone: 2  
Ground Elevation (AMSL): 9.45 m / 31.0 ft

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### Link Information

Satellite Type: Geostationary  
Mode: TR - Transmit-Receive  
Modulation: Digital  
Satellite Arc: 40° W to 41° West Longitude  
Azimuth Range: 134.1° to 135.2°  
Corresponding Elevation Angles: 31.5° / 32.1°  
Antenna Centerline (AGL): 3.05 m / 10.0 ft

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### Antenna Information

	<b>Receive</b>	<b>Transmit</b>
Manufacturer	GATR Technologies	GATR Technologies
Model	2.4 Meter	2.4 Meter
Gain / Diameter	37.4 dBi / 2.4 m	41.5 dBi / 2.4 m
3-dB / 15-dB Beamwidth	2.30° / 4.20°	1.45° / 2.70°
Max Available RF Power (dBW/4 kHz)		-19.2
(dBW/MHz)		4.8
Maximum EIRP (dBW/4 kHz)		22.3
(dBW/MHz)		46.3
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

	<b>Receive 4.0 GHz</b>	<b>Transmit 6.1 GHz</b>
Emission / Frequency Range (MHz)	2M00G7D / 3989.9544	2M00G7D / 6216.9222
Max Great Circle Coordination Distance	316.4 km / 196.6 mi	131.1 km / 81.4 mi
Precipitation Scatter Contour Radius	488.1 km / 303.2 mi	100.0 km / 62.1 mi

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## Earth Station Data Sheet

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### Coordination Values

### NEW YORK CITY, NY

Licensee Name SES Americom, Inc.  
Latitude (NAD 83) 40° 45' 3.3" N  
Longitude (NAD 83) 73° 57' 56.4" W  
Ground Elevation (AMSL) 9.45 m / 31.0 ft  
Antenna Centerline (AGL) 3.05 m / 10.0 ft  
Antenna Model GATR Technologies 2.4 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 -19.2 (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	0.35	126.55	-10.00	266.35	-10.00	106.73
5	0.38	122.67	-10.00	262.86	-10.00	104.38
10	0.39	118.68	-10.00	262.08	-10.00	103.85
15	0.30	114.58	-10.00	272.87	-10.00	111.06
20	0.23	110.42	-10.00	281.84	-10.00	116.91
25	0.00	106.20	-10.00	285.28	-10.00	119.13
30	0.00	101.99	-10.00	285.28	-10.00	119.13
35	0.00	97.75	-10.00	285.28	-10.00	119.13
40	0.00	93.50	-10.00	285.28	-10.00	119.13
45	0.00	89.23	-10.00	285.28	-10.00	119.13
50	0.00	84.97	-10.00	285.28	-10.00	119.13
55	0.00	80.72	-10.00	285.28	-10.00	119.13
60	0.00	76.50	-10.00	285.28	-10.00	119.13
65	0.00	72.30	-10.00	285.28	-10.00	119.13
70	0.00	68.14	-10.00	285.28	-10.00	119.13
75	0.00	64.04	-10.00	285.28	-10.00	119.13
80	0.00	60.01	-10.00	285.28	-10.00	119.13
85	0.00	56.07	-10.00	285.28	-10.00	119.13
90	0.00	52.25	-10.00	285.28	-10.00	119.13
95	0.20	48.47	-10.00	285.20	-10.00	119.07
100	0.24	44.95	-9.32	284.70	-9.32	117.71
105	0.26	41.68	-8.50	287.42	-8.50	118.18
110	0.22	38.74	-7.70	297.52	-7.70	123.36
115	0.22	36.16	-6.95	302.99	-6.95	125.59
120	0.28	33.98	-6.28	299.93	-6.28	122.54
125	0.00	32.67	-5.86	313.64	-5.86	130.02
130	0.00	31.76	-5.55	315.82	-5.55	130.84
135	0.00	31.53	-5.47	316.37	-5.47	131.05
140	0.00	32.01	-5.63	315.21	-5.63	130.61
145	0.00	33.16	-6.02	311.88	-6.02	129.59
150	0.00	34.93	-6.58	307.97	-6.58	128.09
155	0.00	37.16	-7.25	303.36	-7.25	126.31
160	0.00	39.75	-7.98	298.44	-7.98	124.39
165	0.00	42.69	-8.76	293.29	-8.76	122.35
170	0.00	45.93	-9.55	288.14	-9.55	120.29
175	0.00	49.41	-10.00	285.28	-10.00	119.13
180	0.00	53.06	-10.00	285.28	-10.00	119.13
185	0.00	56.86	-10.00	285.28	-10.00	119.13

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### Coordination Values

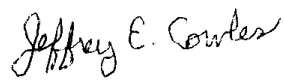
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Short Term -146.0 dBW/MHz 0.01% -131.0 dBW/4 kHz 0.0025%  
Max Available RF Power -19.2 (dBW/4 kHz)

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	60.78	-10.00	285.28	-10.00	119.13
195	0.00	64.79	-10.00	285.28	-10.00	119.13
200	0.00	68.87	-10.00	285.28	-10.00	119.13
205	0.00	73.00	-10.00	285.28	-10.00	119.13
210	0.00	77.18	-10.00	285.28	-10.00	119.13
215	0.00	81.38	-10.00	285.28	-10.00	119.13
220	0.00	85.61	-10.00	285.28	-10.00	119.13
225	0.00	89.84	-10.00	285.28	-10.00	119.13
230	0.00	94.07	-10.00	285.28	-10.00	119.13
235	0.00	98.30	-10.00	285.28	-10.00	119.13
240	0.61	102.59	-10.00	242.91	-10.00	100.00
245	1.00	106.87	-10.00	220.35	-10.00	100.00
250	0.96	111.05	-10.00	222.50	-10.00	100.00
255	0.81	115.14	-10.00	230.76	-10.00	100.00
260	0.69	119.16	-10.00	237.92	-10.00	100.00
265	0.81	123.17	-10.00	230.77	-10.00	100.00
270	0.78	127.02	-10.00	232.32	-10.00	100.00
275	0.73	130.71	-10.00	235.50	-10.00	100.00
280	0.67	134.22	-10.00	238.75	-10.00	100.00
285	0.51	137.42	-10.00	248.92	-10.00	100.00
290	0.44	140.37	-10.00	256.67	-10.00	100.16
295	0.44	143.02	-10.00	256.09	-10.00	100.00
300	0.44	145.23	-10.00	256.30	-10.00	100.00
305	0.41	146.87	-10.00	260.01	-10.00	102.45
310	0.39	147.91	-10.00	261.90	-10.00	103.73
315	0.44	148.33	-10.00	256.77	-10.00	100.23
320	0.58	148.15	-10.00	244.74	-10.00	100.00
325	0.52	147.07	-10.00	248.74	-10.00	100.00
330	0.46	145.39	-10.00	253.92	-10.00	100.00
335	0.46	143.16	-10.00	254.09	-10.00	100.00
340	0.48	140.43	-10.00	251.67	-10.00	100.00
345	0.46	137.31	-10.00	254.08	-10.00	100.00
350	0.42	133.92	-10.00	258.29	-10.00	101.27
355	0.41	130.33	-10.00	260.36	-10.00	102.68

## 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  
Engineer III, Telecommunications  
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Ashburn, Virginia 20147

DATED: November 30, 2011