Prepared By

COMSEARCH

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

Prepared For SES Americom Bristow, Virginia

Temporary Transmit-Only Earth Station Operation Dates: 07/26/2013 - 09/01/2013

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 June 13, 2013.

Company

256Q Networks

AB Services LLC

ADAMS COUNTY EMERGENCY MANAGEMENT AGENCY

AT&T COMMUNICATIONS OF MARYLAND INC

AT&T Communications of Virginia, LLC

AT&T Corp.

Aerbender, LLC

Allentown SMSA Limited Partnership

Alltel Communications LLC - Western PA

Alltel Communications LLC-E OH WV

Alltel Communications LLC-North Carolina

Alltel Communications LLC-Southern VA

Alltel Communications of Petersburg Inc

Alltel Communications of Virginia #1 LLC

Appalachia Engineering Services

Appalachian Broadcasting

Atlantic Broadband (Delmar), LLC

Atlantic Broadband (Penn), LLC

Atlantic City Electric Company

Auburn Data Systems, LLC

B₂₀ LLC

B2x Online Inc

BAY BROADBAND COMMUNICATIONS LLC

BLAIR COUNTY 911

Baltimore County of Maryland

Baltimore Gas and Electric Company

Bedford, County of

Believe Wireless, LLC

Bellsouth Telecommunications. Inc.

Berks, County of

Blue Ridge Carriers

Bucks, County of

CAMDEN COUNTY

CENTRE COUNTY

CHESTER, COUNTY OF

CLEARFIELD, COUNTY OF

CNG Transmission Corporation

CROWN COMMUNICATION, INC.

Cable Of The Carolinas

Cambria, County of

Campbell, County of

Capital Communications of America

Carbon, County of 911 Center

Cellco Partnership - Bridgeville, PA/WV

Cellco Partnership - Southern Virginia

Cellco Partnership- PA Region

Cellco Partnership-Newark-Dallas Verizon

Cellco Partnership-WDC/Baltimore

Cellco Prtnrshp - Phil. Tri-State Rgn

Charles City County Sheriffs Office

Charles, County of

Chesterfield, County of

City of Durham, NC

Commonwealth of Pennsylvania

Commonwealth of Pennsylvania-Radio Proj.

Comprehensive Wireless LLC

Conterra Ultra Broadband, LLC

Converge Towers LLC

Coral Reef Technologies Ltd

Coralinks

County of Fayette

County of Franklin, VA

County of Frederick

Cumberland, County of

DAUPHIN COUNTY EMERGENCY MANAGEMENT

Delaware Division of Communications

Delmarva Power & Light Company

Direct Broadcast Services, Inc.

Duke Energy Business Services LLC

ECW Wireless, LLC

EG Broadcast Newco Corp

Eastern MLG LLC

Enoch Pratt Free Library

Exelon Generation Company, L.L.C

FELHC, Inc.

Federal Communications Commission

Fibertrack, LLC

Frederick County

Fundamental Broadcasting LLC

Garden State Transmissions

Gloucester County

Gloucester, County of

Goochland County

Greene, County of (PA)

HENRICO COUNTY

Hampton Roads Planning District Commissi

Hanover, County of

Hardy Cellular Telephone Company

Harrisonburg-Rockingham ECC

High Voltage Communications LLC

Huntingdon, County of

INDIANA, COUNTY OF

Jefferson Microwave, LLC

Juniata County Emergency Services

King and Queen County

Kryptic Technologies

Last Mile Inc.

Loudoun, County of

MONMOUTH, COUNTY OF

MVC Research, LLC

Maryland Public Broadcasting Commission

Maryland State Highway Administration

Maryland, State of - Dept.of Info & Tech

Mecklenburg Electric Cooperative

Mifflin Mobilecom

National Radio Astronomy Observatory

National Tower Company

New Cingular Wireless PCS LLC -NJ

New Cingular Wireless PCS - Maryland

New Cingular Wireless PCS LLC - DC

New Cingular Wireless PCS LLC - VA

New Cingular Wireless PCS LLC- WV/NC/SC

New Cingular Wireless PCS LLC-DE/NH/RI

New Cingular Wireless PCS of PA LLC

New Cingular Wireless PCS, LLC - PA

New Jersey State Police

New Jersey Turnpike Authority-Pkwy Div

New Jersey, State of -NJ Transit

New Kent County

Newgig Networks, LLC

Norfolk Southern Railway

OCEAN, COUNTY OF

Ocean, County of-Div of Wireless Tech.

Old Dominion LLC

PA Communications

PEG Bandwidth

PENNSYLVANIA TURNPIKE COMMISSION

PSEG Services Corporation

Peco Energy Company

Penn Service Microwave Co., Inc.

Peoples Natural Gas Company LLC

Petersburg Cellular Partnership

Pitt Power

Pittsburgh SMSA Limited Partnership

Pittsylvania, County of

Prince George's County

Prince William, County of

RAPPAHANNOCK ELECTRIC COOPERATIVE

RCTC Wholesale Corporation

RICHMOND, CITY OF

ROANOKE COUNTY

Roanoke, City of

Rural Broadband Network Services LLC

SCTF NET

SHENANDOAH VALLEY ELECTRIC COOPERATIVE

SOMERSET COUNTY

SW Networks

Southern Maryland Electric Cooperative I

Sprint Spectrum, LP

Sprintcom, Inc.

St. Mary's County of (MD)

Stafford, County of

State of Maryland, MIEMSS

State of WV DHHR/BPH STECS

TRF SERVICES LLC

Texas Eastern Communications, Inc.

Thought Transmissions, LLC

Turtle Networks 6386

Turtle Networks 6466

Turtle Networks 6467

UNIVERSITY OF NORTH CAROLINA

US Cellular Operating Company, LLC (WI)

USCOC of Cumberland, Inc.

USCOC of North Carolina RSA #7, Inc.

USCOC of Virginia RSA #2, Inc.

USCOC of Virginia RSA #3, Inc.

Velox Networks LLC

Verizon Maryland, Inc.

Verizon Virginia, Inc.

Verizon Wireless (VAW) LLC - Delaware

Verizon Wireless (VAW) LLC - Maryland

Verizon Wireless (VAW) LLC - NJ

Verizon Wireless (VAW) LLC-NC,SC, TN

Verizon Wireless (VAW) LLC-Pennsylvania

Verizon Wireless LLC - West Virginia

Verizon Wireless VAW LLC-Southern VA

Verizon Wireless(VAW) LLC-AZ/CO/NM/NV/UT

Virginia RSA 5 Limited Partnership

Virginia Beach City of

Virginia Broadband, LLC

Virginia Cellular LLC

Virginia Department of State Police

Virginia Electric & Power Company

Virginia PCS Alliance, L.C.

Virginia Port Authority Police

Virginia RSA #7, Inc.

WITF Inc.

Washington D.C. SMSA L.P.

Washington Gas Light Company

Washington Suburban Sanitary Commission

Webline Holdings LLC

Wico, LLC

Wireless Internet Work II.

Wireless Internetwork LLC

World Class Wireless LLC

York County

York County Dept of Emergency Services

Zen Networks, Inc.

iSignal

ANNE ARUNDEL, COUNTY OF

APPALACHIAN POWER COMPANY

ATLANTIC, COUNTY OF

Albermarle, County of, Virginia

Allegheny County

Allegheny Power Service Corporation

Alltel Communications LLC-North Carolina

Alltel Communications LLC-Southern VA

Alltel Communications of Petersburg Inc

American Electric Power Service Corp.

Amherst County of Dept of Public Safety

BOTETOURT COUNTY

CBS Communications Services Inc.

CENTRAL VIRGINIA RADIO COMMUNICATIONS SY

CENTRE COUNTY

CHESAPEAKE, CITY OF

COLUMBIA COUNTY

CTAB Holdings LLC

Calvert Cliffs Nuclear Power Plant

Calvert County Government

City of Bethlehem, Pennsylvania

City of Richmond

Columbia Gas Transmission Corporation

Conectiv Communications, Inc.

County of Burlington, Public Safety Cntr

County of Culpeper

County of Hunterdon

County of Louisa, VA

County of Salem

Delaware County (PA) Emergency Services

Dinwiddie, County of

Eastern Pennsylvania EMS Council

Egan LLC

Equitable Gas Company

Franklin County Dept. of Emergency Servi

Franklin, County of

George Washington University

Harrison County Emergency Services

Henry, County of

Howard, County of

JEFFERSON COUNTY OF PENNSYLVANIA

LEBANON COUNTY OF

Lancaster County of

Lehigh, County of

M&T Bank

MARYLAND EMERG MANAGEMENT AGENCY COMM

MARYLAND STATE DEPT OF GENERAL SERVICES

Maryland, State Of - MDOT - MTA

Maryland, State of - DNR

Mifflin County

Montgomery County Of

Montgomery, County of

Morgan, County of

NORFOLK, CITY OF

Nelson, County of

Newport News, City of

North Carolina State Highway Patrol

Northumberland, County of

PENNSYLVANIA MICROWAVE NETWORK INC.

PENNSYLVANIA TURNPIKE COMMISSION

PIEDMONT ELECTRIC MEMBERSHIP COOPERATIVE

Pennsylvania Commonwealth State Police

Petersburg Police Department

Potomac Electric Power Company

Powhatan, County of

RCYM Holdings LLC

Redi-Call Communications Company

SCHUYLKILL, COUNTY OF

SCS Networks

SECOM NET

SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH

SPOTSYLVANIA COUNTY

Snyder, County of

Southampton County

Southside Electric Cooperative

Standard Backhaul Communications LLC

Suffolk, City of Radio Electronics Dept

Sussex County

Transcontinental Gas Pipeline Corp.

Triangle Communications, Inc.

Turtle Networks 6423

WASHINGTON COUNTY E-911

Warrenton Fauquier Joint Communications

Western Sub-RSA LTD Partnership

Westmoreland County Public Safety Zango LLC

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: 06/28/2013

Job Number: 130613COMSJC01

Administrative Information

Status TEMPORARY (Operation from 07/26/2013 to 09/01/2013)

Call Sign TEMP09 Licensee Code P3210

Licensee Name SES Americom, Inc.

Site Information BRISTOW, VIRGINIA

Venue Name

Latitude (NAD 83) 38° 47' 3.3" N Longitude (NAD 83) 77° 34' 21.7" W

Climate Zone Α Rain Zone 2

Ground Elevation (AMSL) 86.87 m / 285.0 ft

Link Information

Satellite Type Geostationary Mode TO - Transmit-Only Modulation No Modulation

Satellite Arc 40.5° W to 40.5° West Longitude

129.7° to 129.7° Azimuth Range Corresponding Elevation Angles 31.0° / 31.0° Antenna Centerline (AGL) 5.79 m / 19.0 ft

Antenna Information Transmit

Manufacturer GD Satcom Model 9 Meter 53.5 dBi / 9.0 m Gain / Diameter 3-dB / 15-dB Beamwidth 0.36° / 0.76°

Max Available RF Power (dBW/4 kHz) 27.5

(dBW/MHz) 51.5

Maximum EIRP (dBW/4 kHz) 81.0

> (dBW/MHz) 105.0 (dBW) 81.0

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

Short Term -131.0 dBW/4 kHz 0.0025%

Frequency Information Transmit 6.1 GHz

Emission / Frequency Range (MHz) NON / 5850.0 - 5929.0

NON / 5991.0 - 6136.0 NON / 6169.0 - 6181.0 NON / 6243.0 - 6425.0 NON / 6725.0 - 6759.0 NON / 6781.0 - 6874.0

Max Great Circle Coordination Distance 339.7 km / 211.1 mi Precipitation Scatter Contour Radius 492.6 km / 306.0 mi

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Coordination ValuesBRISTOW, VALicensee NameSES Americom, Inc.Latitude (NAD 83)38° 47' 3.3" NLongitude (NAD 83)77° 34' 21.7" WGround Elevation (AMSL)86.87 m / 285.0 ftAntenna Centerline (AGL)5.79 m / 19.0 ft

Antenna Model GD Satcom 9 Meter 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 27.5 (dBW/4 kHz)

Transmit 6.1 GHz

		Transmit 6.1 GHz					
	Horizon	Antenna	Horizon	Coordination			
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)			
0	0.88	123.51	-10.00	253.17			
5	0.93	119.48	-10.00	250.25			
10	0.83	115.33	-10.00	255.80			
15	0.82	111.14	-10.00	256.88			
20	0.67	106.88	-10.00	265.65			
25	0.62	102.61	-10.00	269.01			
30	0.51	98.32	-10.00	276.50			
35	0.27	94.01	-10.00	304.61			
40	0.42	89.71	-10.00	286.11			
45	0.54	85.40	-10.00	274.12			
50	0.28	81.13	-10.00	303.26			
55	0.38	76.84	-10.00	290.44			
60	0.00	72.67	-10.00	313.13			
65	0.00	68.48	-10.00	313.13			
70	0.00	64.35	-10.00	313.13			
75	0.00	60.28	-10.00	313.13			
80	0.00	56.31	-10.00	313.13			
85	0.00	52.44	-10.00	313.13			
90	0.00	48.72	-10.00	313.13			
95	0.00	45.18	-9.37	317.46			
100	0.00	41.86	-8.55	323.27			
105	0.00	38.84	-7.73	329.09			
110	0.00	36.19	-6.96	334.68			
115	0.00	33.99	-6.28	339.72			
120	0.39	31.97	-5.62	319.72			
125	0.69	30.64	-5.16	296.44			
130	0.73	30.28	-5.03	294.61			
135	0.80	30.63	-5.15	289.21			
140	0.88	31.69	-5.52	281.35			
145	0.87	33.49	-6.12	278.39			
150	0.98	35.73	-6.83	266.78			
155	0.92	38.55	-7.65	264.80			
160	0.71	41.83	-8.54	272.30			
165	0.71	45.22	-9.38	267.03			
170	0.39	49.01	-10.00	289.80			
175	0.39	52.78	-10.00	290.08			
180	0.39	56.68	-10.00	289.28			
185	0.28	60.73	-10.00	303.22			

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Max Available RF Power 27.5 (dBW/4 kHz)

		Transmit 6.1 GHz				
	Horizon	Antenna	Horizon	Coordination		
Azimuth (°)	Elevation (°)	Discrimination (°)	Gain (dBi)	Distance (km)		
190	0.00	64.90	-10.00	313.13		
195	0.00	69.04	-10.00	313.13		
200	0.00	73.24	-10.00	313.13		
205	0.00	77.47	-10.00	313.13		
210	0.00	81.73	-10.00	313.13		
215	0.00	86.00	-10.00	313.13		
220	0.00	90.29	-10.00	313.13		
225	0.00	94.57	-10.00	313.13		
230	0.00	98.85	-10.00	313.13		
235	0.24	103.14	-10.00	308.48		
240	0.32	107.39	-10.00	298.24		
245	0.36	111.60	-10.00	293.32		
250	0.34	115.75	-10.00	295.28		
255	0.35	119.84	-10.00	294.24		
260	0.41	123.86	-10.00	287.09		
265	0.46	127.77	-10.00	281.94		
270	0.46	131.53	-10.00	281.05		
275	0.44	135.09	-10.00	283.19		
280	0.46	138.44	-10.00	281.76		
285	0.47	141.51	-10.00	279.78		
290	0.48	144.21	-10.00	278.75		
295	0.52	146.47	-10.00	275.84		
300	0.49	148.12	-10.00	278.46		
305	0.50	149.16	-10.00	277.42		
310	0.50	149.49	-10.00	276.78		
315	0.46	149.03	-10.00	281.54		
320	0.50	147.95	-10.00	276.91		
325	0.53	146.21	-10.00	274.83		
330	0.67	144.02	-10.00	266.09		
335	0.52	141.15	-10.00	275.55		
340	0.57	138.08	-10.00	272.59		
345	0.65	134.74	-10.00	267.06		
350	0.63	131.11	-10.00	268.61		
355	0.68	127.35	-10.00	265.08		

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

Jeffrey E. Cowles

Engineer III, Telecommunications

COMSEARCH

19700 Janelia Farm Blvd.

Ashburn, Va. 20147

DATED: June 28, 2013