

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA Request to use proposed NWM-17 on E000696 for SES-6 In-orbit Testing

1. Applicant

Name:	SES Americom, Inc.	Phone Number:	202-478-7137
DBA Name:		Fax Number:	202-478-7101
Street:	1129 20th Street NW Suite 1000	E-Mail:	daniel.mah@ses.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036
Attention:	Daniel C.H. Mah		


File # SES-STA-20130604-00471

Call Sign E000696 Grant Date 6-12-13

(or other identifier)

Term Dates From 6-17-13 To 7-17-13

Approved: *[Signature]*



GRANTED
International Bureau

Applicant: SES Americom, Inc.
Call Sign: E000696
File No.: SES-STA-20130604-00471
Special Temporary Authority (STA)



File # SES-STA-20130604-00471
E000696
Call Sign _____ Grant Date 6-12-13
(or other identifier)
From 6-17-13 Term Dates _____
To: 7-17-13
Approved: [Signature]

SES Americom, Inc. (SES) is granted, under the following conditions, STA for 30 days, to conduct in-orbit testing (IOT) for the Netherlands licensed SES-6 satellite at orbital location 26° W.L prior to it relocating to its permanent orbital location 40.5° W.L. (File No. SAT-PPL-20120717-00117).

1. This authorization is limited to operations within coordinated parameters defined in those specified in this STA application narrative.
2. Waiver of 47 C.F.R. § 25.208(a) within certain narrow bandwidths for CW carrier during C-band IOT that may result in satellite emissions in the 3.65-4.2 GHz frequency band that exceed the Commission's PFD limits is authorized for only for IOT testing and must cease if interference is reported.
3. All operations shall be on an unprotected and non-harmful interference basis, SES, E000696, shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference.
4. In the event that any harmful interference is caused as a result of operations of the SES-6 satellite, SES shall cease operations immediately upon notification of such an event, and shall inform the Commission immediately, in writing, of the event.
5. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at SES's own risk. SES point of contact during proposed IOT operations will be Gary Cruickshank, phone 703-330-3305, gary.cruickshank@ses.com
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding SES's pending application IBFS File No. SAT-PPL-20120717-00117.
7. This grant is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective upon release.

2. Contact	
Name:	SES Americom, Inc.
Company:	202-478-7137
Street:	1129 20th Street NW
	Suite 1000
City:	Washington
Country:	USA
Attention:	Daniel C.H. Mah
Phone Number:	202-478-7137
Fax Number:	202-478-7101
E-Mail:	daniel.mah@ses.com
State:	DC
Zipcode:	20036
Relationship:	Legal Counsel
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number SESMFS2013060400470 or Submission ID	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other (please explain):	
4b. Fee Classification CGX – Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date	
06/17/2013	
7. City Bristow	
8. Latitude (dd mm ss.s h) 38 47 2.4 N	

9. State VA	10. Longitude (dd mm ss.s h) 77 34 21.9 W
11. Please supply any need attachments. Attachment 1: NWM-17 Attachment 2: NWM-17 IOT Coord Attachment 3: Attachment 3:	
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) SES requests an STA to use the NWM-17 antenna on E000696 (SES-MFS-20130604-00470) for SES-6 Planned C-band In-orbit Testing at 26W. SES respectfully requests expedited action by June 17, 2013. See attached narrative.	
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application"; party to the application; for these purposes. Yes <input checked="" type="radio"/> No <input type="radio"/>	
14. Name of Person Signing Daniel C.H. Mah	15. Title of Person Signing Regulatory Counsel
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

Call Sign E000696, Antenna NWM-17

SES Americom, Inc. (“SES”) respectfully requests a 30-day Special Temporary Authority (“STA”), beginning on or about June 17, 2013, to use the proposed NWM-17 antenna¹ at its Bristow, Virginia, teleport to perform in-orbit testing (“IOT”) for the Netherlands-licensed SES-6 satellite at 26° W.L. in the following frequencies: 3625-4200 MHz and 4500-4800 MHz (space-to-Earth); and 5850-6425 MHz and 6725-6874 MHz (Earth-to-space).

A full description of the SES-6 satellite can be found in the pending application for U.S. market access for SES-6 at 40.5° W.L. *See* File No. SAT-PPL-20120717-00117; Call Sign S2870 (accepted for filing Aug. 31, 2012).

Grant of the requested STA will serve the public interest by enabling SES and its affiliate, New Skies Satellites B.V., to verify the capabilities of SES-6 before the satellite commences commercial operations at 40.5° W.L., while minimizing the risk of interference. Coordination of the proposed IOT SES-6 at 26° W.L. with adjacent satellite operators is complete. Terrestrial coordination for the operation of the existing antenna on earth station E000696 in the 3625-4200 MHz and 5850-5925 MHz frequency bands has been completed previously. Additional temporary coordination of NWM-17 antenna for IOT of SES-6 in these bands, and in the 4500-4800 MHz and 6725-6874 MHz band, has also been completed. *See* Coordination Report (attached). The use of a CW carrier during C-band IOT may result in satellite emissions in the 3.65-4.2 GHz frequency band that exceed the Commission’s PFD limits on the Earth’s surface in 47 C.F.R. § 25.208(a) within certain narrow bandwidths. To the extent necessary, SES requests a waiver of that provision for purposes of short-term satellite IOT on a non-interference basis.

In any event, all IOT operations will be conducted on a non-harmful interference basis. SES will cease transmissions in the event of any report of harmful interference. The SES point of contact during the proposed IOT operations with this antenna will be Gary Cruickshank, 703-330-3305, gary.cruickshank@ses.com.

¹ *See* SES Americom, Inc., Modification Application, File No. SES-MFS-20130604-00470, call sign E000696 (filed Jun 4, 2013) (pending).

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: 06/15/2013 - 07/20/2013

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 May 16, 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.

Company (Continued)

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

Company (Continued)

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
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

Company (Continued)

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
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

Company (Continued)

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
Weblin 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
ANNE ARUNDEL, COUNTY OF
APPALACHIAN POWER COMPANY
ATLANTIC, COUNTY OF
Albermarle, County of, Virginia
Allegheny County
Allegheny Power Service Corporation
American Electric Power Service Corp.
Amherst County of Dept of Public Safety
BOTETOURT COUNTY
CARROLL COUNTY
CBS Communications Services Inc.
CENTRAL VIRGINIA RADIO COMMUNICATIONS SY
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 Nelson
County of Salem
Delaware County (PA) Emergency Services
Dinwiddie, County of

Company (Continued)

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
Newport News , City of
North Carolina State Highway Patrol
Northumberland, County of
PENNSYLVANIA MICROWAVE NETWORK INC.
PIEDMONT ELECTRIC MEMBERSHIP COOPERATIVE
Pennsylvania Commonwealth State Police
Petersburg Police Department
Potomac Electric Power Company
Powhatan, County of
Prince George's, County of
RCYM Holdings LLC
Redi-Call Communications Company
SCHUYLKILL, COUNTY OF
SCS Networks
SECOM NET
SOUTHEASTERN PENNSYLVANIA TRANSIT AUTH
SPOTSYLVANIA COUNTY
SW Networks
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.

Company (Continued)

WASHINGTON COUNTY E-911
WESTMORELAND COUNTY PUBLIC SAFETY
Warrenton Fauquier Joint Communications
Western Sub-RSA LTD Partnership
Zango 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
 19700 Janelia Farm Boulevard, Ashburn, VA 20147
 (703)726-5500 <http://www.comsearch.com>

Date: 05/31/2013
 Job Number: 130516COMSJC01

Administrative Information

Status: TEMPORARY (Operation from 06/15/2013 to 07/20/2013)
 Call Sign: TEMP07
 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: A
 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: 26° W to 26° West Longitude
 Azimuth Range: 116.4° to 116.4°
 Corresponding Elevation Angles: 20.9° / 20.9°
 Antenna Centerline (AGL): 5.79 m / 19.0 ft

Antenna Information

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

Transmit

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

Frequency Information

Emission / Frequency Range (MHz)

Transmit 6.1 GHz

NON / 5850.0 - 5929.0
 NON / 5991.0 - 6136.0
 NON / 6169.0 - 6181.0
 NON / 6243.0 - 6388.0
 NON / 6421.0 - 6425.0
 NON / 6725.0 - 6769.0
 NON / 6781.0 - 6874.0

Max Great Circle Coordination Distance: 381.3 km / 236.9 mi
 Precipitation Scatter Contour Radius: 506.5 km / 314.7 mi

COMSEARCH Earth Station Data Sheet

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

Coordination Values	BRISTOW, VA	
Licensee Name	SES Americom, Inc.	
Latitude (NAD 83)	38° 47' 3.3" N	
Longitude (NAD 83)	77° 34' 21.7" W	
Ground Elevation (AMSL)	86.87 m / 285.0 ft	
Antenna 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)	

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.88	114.73	-10.00	253.17
5	0.93	110.09	-10.00	250.25
10	0.83	105.41	-10.00	255.80
15	0.82	100.73	-10.00	256.88
20	0.67	96.03	-10.00	265.65
25	0.62	91.34	-10.00	269.01
30	0.51	86.65	-10.00	276.50
35	0.27	81.98	-10.00	304.61
40	0.42	77.30	-10.00	286.11
45	0.54	72.62	-10.00	274.12
50	0.28	68.01	-10.00	303.26
55	0.38	63.38	-10.00	290.44
60	0.00	58.88	-10.00	313.13
65	0.00	54.36	-10.00	313.13
70	0.00	49.90	-10.00	313.13
75	0.00	45.52	-9.45	316.89
80	0.00	41.25	-8.38	324.42
85	0.00	37.12	-7.24	332.67
90	0.00	33.19	-6.03	341.64
95	0.00	29.55	-4.77	351.22
100	0.00	26.32	-3.51	361.03
105	0.00	23.66	-2.35	370.27
110	0.00	21.78	-1.45	377.59
115	0.00	20.90	-1.00	381.29
120	0.39	20.76	-0.93	356.22
125	0.69	21.84	-1.48	324.28
130	0.73	24.11	-2.56	313.05
135	0.80	27.07	-3.81	298.87
140	0.88	30.52	-5.12	284.19
145	0.87	34.38	-6.41	276.49
150	0.98	38.41	-7.61	261.80
155	0.92	42.69	-8.76	257.95
160	0.71	47.14	-9.83	264.18
165	0.71	51.60	-10.00	263.24
170	0.39	56.20	-10.00	289.80
175	0.39	60.76	-10.00	290.08
180	0.39	65.36	-10.00	289.28
185	0.28	70.00	-10.00	303.22

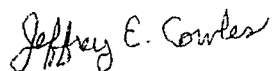
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Earth Station Data Sheet
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Coordination Values	BRISTOW, VA		
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Antenna Mode	Transmit 6.1 GHz		
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%
Max Available RF Power	27.5 (dBW/4 kHz)		

			Transmit 6.1 GHz	
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	74.68	-10.00	313.13
195	0.00	79.33	-10.00	313.13
200	0.00	84.00	-10.00	313.13
205	0.00	88.67	-10.00	313.13
210	0.00	93.34	-10.00	313.13
215	0.00	98.01	-10.00	313.13
220	0.00	102.67	-10.00	313.13
225	0.00	107.32	-10.00	313.13
230	0.00	111.94	-10.00	313.13
235	0.24	116.59	-10.00	308.48
240	0.32	121.19	-10.00	298.24
245	0.36	125.73	-10.00	293.32
250	0.34	130.21	-10.00	295.28
255	0.35	134.61	-10.00	294.24
260	0.41	138.93	-10.00	287.09
265	0.46	143.11	-10.00	281.94
270	0.46	147.08	-10.00	281.05
275	0.44	150.74	-10.00	283.19
280	0.46	154.03	-10.00	281.76
285	0.47	156.75	-10.00	279.78
290	0.48	158.68	-10.00	278.75
295	0.52	159.61	-10.00	275.84
300	0.49	159.33	-10.00	278.46
305	0.50	157.98	-10.00	277.42
310	0.50	155.70	-10.00	276.78
315	0.46	152.69	-10.00	281.54
320	0.50	149.24	-10.00	276.91
325	0.53	145.44	-10.00	274.83
330	0.67	141.44	-10.00	266.09
335	0.52	137.15	-10.00	275.55
340	0.57	132.81	-10.00	272.59
345	0.65	128.39	-10.00	267.06
350	0.63	123.86	-10.00	268.61
355	0.68	119.30	-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
Engineer III, Telecommunications
COMSEARCH
19700 Janelia Farm Blvd.
Ashburn, Va. 20147

DATED: May 31, 2013