



19700 Janelia Farm Boulevard, Ashburn, VA 20147
Phone 703-726-5500 • Fax 703-726-5600
www.comsearch.com

Supplemental Showing Pursuant To: 101.103 (d) Frequency Coordination Procedures

Reference:

SES Americom, Inc.
Job Number: 190716COMSDS04
SATCOM A - SATCOM B, FL ; LOWERY SAT A - LOWERY SAT B, FL.
4.0 GHz DIGITAL MICROWAVE SYSTEM
Temporary Experimental License
Temporary Operation from August 19, 2019 to August 30, 2019
*** Expedited Response Requested By July 30, 2019 ***

Coordination data for the referenced microwave route was forwarded to the existing licensees and applicants whose facilities could be affected on July 16, 2019.

Frequencies allocated for standard use were not used since they failed to meet the interference protection criteria as specified in FCC Rule Part 101.105. Therefore non-standard frequencies were assigned to this path for two-way communications in order to follow the predominant plan in the environment in accordance with FCC Rule Part 101.147.

The following carriers or their designated coordination agents were notified, and there are no unresolved interference objections.

Licensees

ARRIS Enterprises LLC
ASCENT MEDIA SYSTEMS & TECHNOLOGY SERVICE
Advanced Satellite Systems, Inc
Associated Press - Cts Engineering
Bible Broadcasting Network Inc.
Board of Trustees, University of Florida
Bright House Networks, LLC
CBS Communications Services Inc
COMCAST CABLEVISION OF WEST FLORIDA INC.
COMCAST OF COLORADO/FLORIDA, INC.
COMCAST OF FLORIDA I, INC.
COMCAST OF FLORIDA/WASHINGTON, LLC
COMCAST OF GREATER FLORIDA/GEORGIA, INC.
Cablevision Of Marion County LLC
Charter Communications Operating, LLC
Christian Television Corporation, Inc.
Christian Television Network, Inc.
Christian Television of Palm Beach Cnty
Citadel Broadcasting Co
Cohan Radio Group, Inc.
Comcast Cable Comm Management LLC
Comcast Cable Communications, LLC
Comcast of AR/FL/Louisiana/MN/MS/TN Inc.
Comcast of Florida/Georgia/PA, LLC
Community Communications, Inc. (WMFE)
Cornerstone Broadcasting Corporation
Cox Communications Inc - Ocala, FL
Cox Radio Inc (Orlando, FL)
Cox Radio Inc. (Jacksonville, FL)



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(Continued)

Cox Radio, Inc. (Tampa, St Petersburg Fl
Cox Television Jacksonville, LLC
CoxCom, LLC - Northern Virginia
Cumulus Licensing LLC
Digital Comm Link, Inc.
E ENTERTAINMENT TELEVISION
Eastern Florida State College
Educational Media Foundation
Entravision Holdings, LLC
First Baptist Church Melbourne Inc
Florida Gulf Coast University
Florida Institute of Technology
Florida Radio Network
Fox Broadcasting Company
Global Eagle Telecom Licensing
Good Karma Broadcasting, LLC
Graham Media Group, Florida, Inc.
Gray Television Licensee, LLC
HARRIS CORPORATION
Hall Communications, Inc.
Harris Corporation (Virginia)
Hearst Properties Inc.
Indian River Community College
Jacksonville Educators Broadcasting Inc
MOTOR RACING NETWORK, INC
Montclair Communications Inc.
Moody Bible Institute of Chicago
Multimedia Holdings Corporation
NBC Telemundo License LLC
NLG Merger Corp.
Nathan B Stubblefield Foundation
New Age Media of Gainesville License LLC
New Covenant Ministries, Inc.
Oak Run Associates Ltd
Omnicom Studios, LLC
Orlando Hearst Television, Inc.
PGA Tour Productions
POST-NEWSWEEK STATIONS, ORLANDO, INC.
Pacific and Southern, LLC
Pensacola Christian College, Inc.
RCN License Subsidiary, Inc.
Radio Training Network, Inc.
Radio Vision Cristiana Subsidiary Corp
Roberts Communications Network, LLC
Salem Communications Holding Corporation
Scripps Broadcasting Holdings, LLC



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(Continued)

Scripps Media, Inc. - WFTS TV
Smart City Solutions, LLC
Solmart Media, LLC
South Florida Water Management District
TEGNA Inc.
Telco 214 US, Inc
The Golf Channel
The University of Florida (WUFT-FM)
The Villages Media Group
Thornburg Communications, Inc
Trinity Broadcasting Network Inc
Trinity Christian Center of Santa Ana
UNIVERSITY OF CENTRAL FLORIDA
Univ. of So. Florida Board of Trustees
University of Central Florida
Verizon Florida Inc.
Vidsat Communications
WFTV, Inc.
WJCT, Inc.
WMOR- TV Company
WPEC Licensee, LLC
WWSB License Subsidiary, LLC
WXEL Public Broadcasting Corporation
Waterman Broadcasting
West Coast Christian Television, Inc
iHeartMedia Entertainment, Inc.

Respectfully Submitted,
COMSEARCH

/s/ Dong Shin
Senior MW Engineer

Microwave Path Data Sheet

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COMSEARCH

19700 Janelia Farm Boulevard, Ashburn, VA, 20147

(703)636-5234 www.comsearch.com

PCN Date: 07/16/2019

Job Number: 190716COMSDS04

New Path

RCN Number: 19071668

Administrative Information

City/County
Status / License Basis
Call Sign
Licensee Code
Licensee Name
Radio Service / Station Class

SATCOM A FL

Pine Castle/Orange
Engineering Proposal / SECONDARY OPERATION
Temporary Experimental License
P3210
SES Americom, Inc.
MG -- Microwave Industrial/Business Pool

SATCOM B FL

Edgewood/Orange
Engineering Proposal / SECONDARY OPERATION
Temporary Experimental License
P3210
SES Americom, Inc.
FXO -- Fixed

Site Information

Latitude (NAD 83) 28 ° 28' 35.9" N
Longitude (NAD 83) 81 ° 22' 21.9" W
Ground Elevation (m/ft-AMSL) 30.00 / 98.4
Antenna Structure Registration #
Path Azimuth (°) 335.674
Path Length (km / miles) 0.145 / 0.090

28 ° 28' 40.2" N
81 ° 22' 24.1" W
29.35 / 96.3

155.674

Transmit Antenna

*20001
Manufacturer Test
Model TEST
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.8 / 2.00 / -0.26
Centerline (m / ft - AGL) 6.00 / 19.7

Receive Antenna

*20001
Manufacturer Test
Model TEST
Gain (dBi) / Beamwidth (°) 29.0 / 2.00
Centerline (m / ft - AGL) 6.00 / 19.7

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

Manufacturer	TEMP20	999999
Model	ALL MANUFACTURERS	RECEIVE
Model Description	TEST SIGNAL	ONLY
Emission Designator / Modulation	60M0D7W/100M0D7W QPSK/16QAM/64QAM/25QAM	
Loading	1 CH DIG	1 CH DIG
Stability (%)	0.001	0.001
Power (dBm)	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Received Level (dBm)	8.0	-14.8
EIRP (dBm)	43.8	
Fixed Loss: Tx / Common (dB)	0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB)		87.6

Transmit Frequencies (MHz)**3700 - 3900 MHz**

Microwave Path Data Sheet

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PCN Date: 07/16/2019

Job Number 190716COMSDS04

New Path

RCN Number: 19071668

Administrative Information

LOWERY SAT A FL
City/County Sky Lake/Orange
Status / License Basis Engineering Proposal / SECONDARY OPERATION
Call Sign Temporary Experimental License
Licensee Code P3210
Licensee Name SES Americom, Inc.
Radio Service / Station Class MG -- Microwave Industrial/Business Pool

LOWERY SAT B FL

Sky Lake/Orange
Engineering Proposal / SECONDARY OPERATION
Temporary Experimental License
P3210
SES Americom, Inc.
FXO -- Fixed

Site Information

Latitude (NAD 83)	28 ° 27' 28.2" N	28 ° 27' 33.4" N
Longitude (NAD 83)	81 ° 23' 48.8" W	81 ° 23' 47.4" W
Ground Elevation (m/ft-AMSL)	30.20 / 99.1	30.20 / 99.1
Antenna Structure Registration #		
Path Azimuth (°)	13.383	193.384
Path Length (km / miles)	0.165 / 0.102	

Transmit Antenna

*20001
Manufacturer Test
Model TEST
Gain(dBi) / Beamwidth(°) / Tilt(°) 35.8 / 2.00 / -0.00
Centerline (m / ft - AGL) 6.00 / 19.7

Receive Antenna

*20001
Manufacturer Test
Model TEST
Gain (dBi) / Beamwidth (°) 29.0 / 2.00
Centerline (m / ft - AGL) 6.00 / 19.7

Diversity Receive Antenna

Manufacturer
Model
Gain (dBi) / Beamwidth (°)
Centerline (m / ft - AGL)

Radio Information

Manufacturer	TEMP20	999999
Model	ALL MANUFACTURERS	RECEIVE
Model Description	TEST SIGNAL	ONLY
Emission Designator / Modulation	60M0D7W/100M0D7W QPSK/16QAM/64QAM/25QAM	
Loading	1 CH DIG	1 CH
Stability (%)	0.001	0.001
Power (dBm)	Nominal Coordinated Maximum	Nominal Coordinated Maximum
Received Level (dBm)	8.0	-15.9
EIRP (dBm)	43.8	
Fixed Loss: Tx / Common (dB)	0.0 / 0.0	0.0 / 0.0
Free Space Loss (dB)		88.7

Transmit Frequencies (MHz)**3700 - 3900 MHz**