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VIA ELECTRONIC FILING

November 14, 2018

Marlene H. Dortch
Office of the Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: AT&T Corp. Application for Modification of Call Sign E090084 to Add New Antennas,
IBFS File No. SES-MOD-INTR2018-09343

Dear Ms. Dortch:

AT&T Corp., by its undersigned counsel, respectfully notifies the Federal Communications Commission that the coordination process for the above-captioned earth station modification application has been completed. Attached is the final Frequency Coordination and Interference Analysis Report for inclusion in the FCC's files for the above-referenced earth station application.

Should you have any questions regarding this filing, please do not hesitate to contact me.

Respectfully Submitted,

/s/ Jennifer D. Hindin

Jennifer D. Hindin
Counsel for AT&T Corp.

Attachment

Coordination Report for 13.1-meter Antenna

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
AT&T Corp.
HAMPTON, GA
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
October 31, 2018

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 10/15/2018.

Company

Alabama Great Southern Railroad Company
Alltel Communications LLC - Alabama
Athens Cellular, Inc.
Athens-Clark County Unified Government
Baldwin County Sheriffs Office
Barrow County Emergency Services
Bartow, County of
Calhoun County 911
Cellco Partnership - Georgia Mkt
Central of Georgia Railway Company
City of Phenix City
Clayton, County of
Cobb, County of
Conterra Ultra Broadband, LLC
Conyers, City of
Coweta County
DeKalb County Police Department
Diverse Power Inc
Flint Electric Membership Corporation
Floyd County
Forsyth, County of
Fulton, County of
Georgia Southern and Florida Railway Co
Georgia System Operations Corporation
Greene County E911
Gwinnett County Government
Hall County 9-1-1
Henry County Emergency Communications
Houston County Water Department
Jackson Electric Membership Corporation
Macon-Bibb County Government
Monroe, County of (GA)
New Cingular Wireless PCS LLC - AL, MS
New Cingular Wireless PCS LLC - Georgia
Norfolk Southern Railway
Oconee County Sheriffs Office
Olympic Wireless, LLC
One Ring Networks, Inc.
PowerSouth Energy Cooperative
Public Service Telephone Company
Public Service Towers, Inc.

Southern Company Services, Inc.
Southwestco Wireless LP (Georgia 5)
T-Mobile License LLC
Tallapoosa, County of
Troy University
Verizon Wireless (VAW) LLC (Georgia)
Verizon Wireless (VAW) LLC - Alabama
Verizon Wireless of The East LP - (GA)
Verizon Wireless of the East LP- Alabama
Walton County Georgia

4. EARTH STATION COORDINATION DATA

This 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: 10/31/2018
Job Number: 181015COMSGE18

Administrative Information

Status ENGINEER PROPOSAL
Call Sign E090084
Licensee Code P1175
Licensee Name AT&T Corp.

Site Information

HAMPTON, GA
Venue Name
Latitude (NAD 83) 33° 22' 41.4" N
Longitude (NAD 83) 84° 17' 51.7" W
Climate Zone A
Rain Zone 1
Ground Elevation (AMSL) 268.2 m / 879.9 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 50° W to 139° West Longitude
Azimuth Range 128.9° to 248.7°
Corresponding Elevation Angles 36.7° / 20.7°
Antenna Centerline (AGL) 5.49 m / 18.0 ft

Antenna Information

		Receive - FCC32		Transmit - FCC32	
Manufacturer		Gen Dynamics		Gen Dynamics	
Model		Satcom		Satcom	
Gain / Diameter		53.5 dBi / 13.1 m		57.3 dBi / 13.1 m	
3-dB / 15-dB Beamwidth		0.38° / 0.76°		0.26° / 0.52°	
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			-14.0 10.0	
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)			43.3 67.3	
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%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	1M50G7W - 36M0G7W / 3700.0 - 4200.0	1M50G7W - 36M0G7W / 5925.0 - 5959.0 1M50G7W - 36M0G7W / 5991.0 - 6211.0 1M50G7W - 36M0G7W / 6243.0 - 6425.0
Max Great Circle Coordination Distance	349.5 km / 217.2 mi	160.5 km / 99.7 mi
Precipitation Scatter Contour Radius	577.7 km / 358.9 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

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Coordination Values

HAMPTON, GA

Licensee Name AT&T Corp.
Latitude (NAD 83) 33° 22' 41.4" N
Longitude (NAD 83) 84° 17' 51.7" W
Ground Elevation (AMSL) 268.2 m / 879.9 ft
Antenna Centerline (AGL) 5.49 m / 18.0 ft
Antenna Model Gen Dynamics 13.1 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 -14.0 (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	0.49	109.91	-10.00	250.90	-10.00	109.49
5	0.57	114.56	-10.00	245.40	-10.00	105.63
10	0.59	112.99	-10.00	243.86	-10.00	104.51
15	0.65	109.13	-10.00	240.34	-10.00	101.92
20	0.65	105.19	-10.00	240.09	-10.00	101.74
25	0.67	101.20	-10.00	239.10	-10.00	101.00
30	0.70	97.19	-10.00	237.39	-10.00	100.00
35	0.66	93.15	-10.00	239.60	-10.00	101.37
40	0.64	89.10	-10.00	241.08	-10.00	102.47
45	0.56	85.07	-10.00	246.17	-10.00	106.19
50	0.54	81.05	-10.00	247.21	-10.00	106.94
55	0.44	77.06	-10.00	256.73	-10.00	113.61
60	0.32	73.13	-10.00	270.89	-10.00	123.32
65	0.00	69.32	-10.00	285.28	-10.00	132.84
70	0.00	65.51	-10.00	285.28	-10.00	132.84
75	0.00	61.78	-10.00	285.28	-10.00	132.84
80	0.00	58.16	-10.00	285.28	-10.00	132.84
85	0.00	54.68	-10.00	285.28	-10.00	132.84
90	0.00	51.36	-10.00	285.28	-10.00	132.84
95	0.00	48.24	-10.00	285.28	-10.00	132.84
100	0.00	45.38	-9.42	288.99	-9.42	133.15
105	0.00	42.82	-8.79	293.09	-8.79	134.89
110	0.00	40.62	-8.22	296.87	-8.22	136.50
115	0.00	38.85	-7.73	300.10	-7.73	137.89
120	0.00	37.57	-7.37	302.56	-7.37	138.96
125	0.00	36.83	-7.15	304.03	-7.15	139.60
130	0.00	36.66	-7.11	304.35	-7.11	139.74
135	0.00	37.09	-7.23	303.51	-7.23	139.37
140	0.00	38.07	-7.51	301.58	-7.51	138.53
145	0.00	39.58	-7.94	298.75	-7.94	137.31
150	0.45	41.16	-8.36	264.72	-8.36	116.62
155	0.50	43.53	-8.97	256.03	-8.97	111.54
160	0.28	46.14	-9.60	277.79	-9.60	127.34
165	0.21	48.21	-10.00	283.76	-10.00	131.85
170	0.00	49.92	-10.00	285.28	-10.00	132.84
175	0.00	50.86	-10.00	285.28	-10.00	132.84
180	0.22	50.96	-10.00	282.57	-10.00	131.07
185	0.24	50.63	-10.00	280.34	-10.00	129.61

COMSEARCH

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Coordination Values

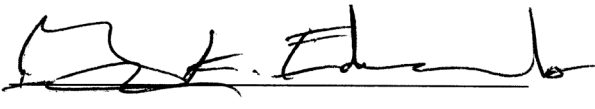
HAMPTON, GA

Licensee Name AT&T Corp.
Latitude (NAD 83) 33° 22' 41.4" N
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Ground Elevation (AMSL) 268.2 m / 879.9 ft
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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 -14.0 (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	0.29	49.65	-10.00	274.52	-10.00	125.76
195	0.34	48.10	-10.00	267.90	-10.00	121.30
200	0.00	46.37	-9.65	287.49	-9.65	133.77
205	0.00	43.90	-9.06	291.31	-9.06	134.13
210	0.00	41.08	-8.34	296.05	-8.34	136.15
215	0.00	37.97	-7.49	301.77	-7.49	138.61
220	0.00	34.63	-6.49	308.62	-6.49	141.62
225	0.00	31.09	-5.32	317.44	-5.32	145.28
230	0.00	27.64	-4.04	326.56	-4.04	149.46
235	0.00	24.68	-2.81	335.53	-2.81	153.68
240	0.00	22.40	-1.76	343.31	-1.76	157.42
245	0.00	21.03	-1.07	348.45	-1.07	159.93
250	0.00	20.76	-0.93	349.54	-0.93	160.47
255	0.00	21.61	-1.37	346.24	-1.37	158.85
260	0.00	23.47	-2.26	339.55	-2.26	155.60
265	0.00	26.13	-3.43	331.00	-3.43	151.53
270	0.00	29.36	-4.69	321.86	-4.69	147.29
275	0.00	33.00	-5.96	312.88	-5.96	143.23
280	0.00	36.93	-7.19	303.82	-7.19	139.51
285	0.00	41.06	-8.34	296.08	-8.34	136.16
290	0.00	45.34	-9.41	289.04	-9.41	133.18
295	0.00	49.73	-10.00	285.28	-10.00	132.84
300	0.00	54.20	-10.00	285.28	-10.00	132.84
305	0.00	58.72	-10.00	285.28	-10.00	132.84
310	0.00	63.29	-10.00	285.28	-10.00	132.84
315	0.00	67.90	-10.00	285.28	-10.00	132.84
320	0.00	72.53	-10.00	285.28	-10.00	132.84
325	0.00	77.19	-10.00	285.28	-10.00	132.84
330	0.00	81.85	-10.00	285.28	-10.00	132.84
335	0.00	86.52	-10.00	285.28	-10.00	132.84
340	0.00	91.20	-10.00	285.28	-10.00	132.84
345	0.00	95.88	-10.00	285.28	-10.00	132.84
350	0.39	100.57	-10.00	261.81	-10.00	117.14
355	0.45	105.25	-10.00	255.37	-10.00	112.66

5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: October 31, 2018