



COMSEARCH[®]
A CommScope Company

October 15, 2018

Re: AT&T Corp -
ROARING CRK, PA
Call Sign: KA444
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE12

**** Expedited Response Requested by October 29, 2018 ****

***** Revision Notice *****

Dear Frequency Coordinator:

This notice is being provided in accordance with Section 25.203(c) of the FCC Rules and Regulations. We are forwarding the attached revised coordination data on behalf of AT&T Corp - for modifications to their existing C-Band Transmit-Receive Earth Stations in ROARING CRK, PA.

AT&T plans to add a C-band transmit/receive earth station to their existing teleport. Please update your database with the attached information. This proposed antenna will be co-located with existing large diameter C-band transmit/receive earth stations operating under similar parameters.

We respectfully request that you examine this data for its interference potential with your system(s). In the event that your analysis identifies potential interference cases that were not previously reported, please contact us by October 29, 2018, as our client would like to expedite the filing of this earth station with the FCC.

If there are any questions concerning this coordination notice, please contact Comsearch.

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Date: 10/15/2018
Job Number: 181015COMSGE12

Administrative Information

Status ENGINEER PROPOSAL
Call Sign KA444
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information ROARING CRK, PA

Venue Name
Latitude (NAD 83) 40° 53' 36.2" N
Longitude (NAD 83) 76° 26' 21.4" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 295.96 m / 971.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 4.6° W to 148.2° West Longitude
Azimuth Range 102.1° to 257.8°
Corresponding Elevation Angles 5.0° / 5.0°
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		51.9 dBi / 11.1 m		55.6 dBi / 11.1 m	
3-dB / 15-dB Beamwidth		0.40° / 0.90°		0.30° / 0.60°	
Max Available RF Power					
	(dBW/4 kHz)			-2.7	
	(dBW/MHz)			21.3	
Maximum EIRP					
	(dBW/4 kHz)			52.9	
	(dBW/MHz)			76.9	
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)	54K6G7W - 72M0G7W / 3625.0 - 4200.0	54K6G7W - 72M0G7W / 5850.0 - 6425.0
Max Great Circle Coordination Distance	714.9 km / 444.2 mi	429.1 km / 266.6 mi
Precipitation Scatter Contour Radius	621.4 km / 386.1 mi	101.8 km / 63.2 mi

COMSEARCH**Earth Station Data Sheet**

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Coordination Values		ROARING CRK, PA			
Licensee Name	AT&T Corp -				
Latitude (NAD 83)	40° 53' 36.2" N				
Longitude (NAD 83)	76° 26' 21.4" W				
Ground Elevation (AMSL)	295.96 m / 971.0 ft				
Antenna Centerline (AGL)	5.49 m / 18.0 ft				
Antenna Model	Gen Dynamics 11.1 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	-2.7 (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	0.00	102.08	-10.00	285.28	-10.00	170.66
5	1.43	97.11	-10.00	207.55	-10.00	106.50
10	2.35	92.12	-10.00	186.51	-10.00	100.00
15	2.56	87.12	-10.00	181.76	-10.00	100.00
20	2.21	82.13	-10.00	189.73	-10.00	100.00
25	2.07	77.14	-10.00	193.03	-10.00	100.00
30	1.86	72.15	-10.00	198.40	-10.00	100.00
35	1.59	67.16	-10.00	205.57	-10.00	102.44
40	1.29	62.18	-10.00	211.49	-10.00	110.05
45	1.06	57.21	-10.00	218.42	-10.00	116.05
50	1.10	52.22	-10.00	217.17	-10.00	114.99
55	1.07	47.24	-9.86	218.76	-9.86	116.17
60	1.41	42.24	-8.64	214.51	-8.64	111.05
65	1.06	37.30	-7.29	232.56	-7.29	124.13
70	0.55	32.39	-5.76	272.41	-5.76	151.17
75	0.41	27.47	-3.97	299.21	-3.97	172.40
80	0.28	22.59	-1.85	331.71	-1.85	193.97
85	0.00	17.81	0.74	362.27	0.74	210.39
90	0.35	12.96	4.19	370.25	4.19	210.41
95	0.00	8.67	8.55	425.98	8.55	245.15
100	0.64	4.81	14.94	714.89	14.94	429.11
105	1.30	4.65	15.31	534.18	15.31	302.55
110	1.85	7.87	9.60	326.60	9.60	170.34
115	2.07	11.31	5.66	284.68	5.66	144.66
120	2.00	14.88	2.69	264.17	2.69	134.37
125	1.75	18.47	0.34	256.28	0.34	132.85
130	1.67	21.83	-1.48	246.81	-1.48	128.26
135	1.63	25.03	-2.96	238.99	-2.96	124.10
140	1.93	27.78	-4.09	222.71	-4.09	112.61
145	2.35	30.22	-5.01	207.84	-5.01	100.76
150	2.64	32.49	-5.79	200.30	-5.79	100.00
155	2.99	34.40	-6.41	189.73	-6.41	100.00
160	3.34	35.95	-6.89	179.64	-6.89	100.00
165	3.58	37.20	-7.26	172.29	-7.26	100.00
170	3.61	38.25	-7.56	169.96	-7.56	100.00
175	3.44	39.07	-7.80	172.74	-7.80	100.00
180	3.26	39.47	-7.91	176.19	-7.91	100.00
185	3.18	39.33	-7.87	178.16	-7.87	100.00

COMSEARCH**Earth Station Data Sheet**

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5662 <http://www.comsearch.com>

Coordination Values**ROARING CRK, PA**

Licensee Name	AT&T Corp -				
Latitude (NAD 83)	40° 53' 36.2" N				
Longitude (NAD 83)	76° 26' 21.4" W				
Ground Elevation (AMSL)	295.96 m / 971.0 ft				
Antenna Centerline (AGL)	5.49 m / 18.0 ft				
Antenna Model	Gen Dynamics 11.1 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				-2.7 (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	3.02	38.82	-7.73	182.45	-7.73	100.00
195	2.64	38.09	-7.52	191.94	-7.52	100.00
200	1.92	37.24	-7.28	206.80	-7.28	102.46
205	1.92	35.33	-6.70	209.47	-6.70	104.16
210	2.10	32.94	-5.94	208.87	-5.94	102.64
215	2.05	30.46	-5.09	214.32	-5.09	106.58
220	1.62	28.03	-4.19	231.98	-4.19	120.06
225	1.61	25.04	-2.97	239.39	-2.97	124.40
230	1.19	22.19	-1.65	263.07	-1.65	138.60
235	0.89	19.09	-0.02	289.22	-0.02	156.33
240	0.98	15.59	2.18	299.57	2.18	161.22
245	1.33	11.83	5.17	308.84	5.17	163.67
250	2.08	7.73	9.80	319.90	9.80	163.15
255	2.41	3.84	17.38	537.68	17.38	304.22
260	2.34	3.46	18.54	712.17	18.54	427.07
265	1.33	8.07	9.33	345.12	9.33	184.88
270	0.69	12.91	4.22	337.23	4.22	188.34
275	0.21	17.82	0.73	361.48	0.73	209.83
280	0.20	22.67	-1.89	341.96	-1.89	201.62
285	0.24	27.56	-4.01	321.31	-4.01	189.60
290	0.47	32.46	-5.78	279.18	-5.78	156.78
295	0.00	37.47	-7.34	302.76	-7.34	180.97
300	0.00	42.42	-8.69	293.76	-8.69	175.75
305	0.00	47.38	-9.89	285.98	-9.89	171.09
310	0.00	52.35	-10.00	285.28	-10.00	170.66
315	0.00	57.32	-10.00	285.28	-10.00	170.66
320	0.00	62.29	-10.00	285.28	-10.00	170.66
325	0.00	67.27	-10.00	285.28	-10.00	170.66
330	0.00	72.25	-10.00	285.28	-10.00	170.66
335	0.00	77.23	-10.00	285.28	-10.00	170.66
340	0.00	82.21	-10.00	285.28	-10.00	170.66
345	0.00	87.19	-10.00	285.28	-10.00	170.66
350	0.00	92.17	-10.00	285.28	-10.00	170.66
355	0.00	97.15	-10.00	285.28	-10.00	170.66



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October 15, 2018

Re: AT&T Corp - ROARING CRK, PA
Call Sign: KA444
C-Band Transmit-Receive Earth Station
Job Number: 181015COMSGE11

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Date: 10/15/2018
Job Number: 181015COMSGE11

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Status ENGINEER PROPOSAL
Call Sign KA444
Licensee Code P1175P
Licensee Name AT&T Corp -

Site Information ROARING CRK, PA

Venue Name
Latitude (NAD 83) 40° 53' 36.2" N
Longitude (NAD 83) 76° 26' 21.4" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 295.96 m / 971.0 ft

Link Information

Satellite Type Geostationary
Mode TR - Transmit-Receive
Modulation Digital
Satellite Arc 4.6° W to 148.2° West Longitude
Azimuth Range 102.1° to 257.8°
Corresponding Elevation Angles 5.0° / 5.0°
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)			-2.7	21.3
Maximum EIRP	(dBW/4 kHz) (dBW/MHz)			54.6	78.6
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)	54K6G7W - 72M0G7W / 3625.0 - 4200.0	54K6G7W - 72M0G7W / 5850.0 - 6425.0
Max Great Circle Coordination Distance	743.1 km / 461.7 mi	448.0 km / 278.3 mi
Precipitation Scatter Contour Radius	621.4 km / 386.1 mi	101.8 km / 63.2 mi

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Ground Elevation (AMSL)		295.96 m / 971.0 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				-2.7 (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	0.00	102.08	-10.00	285.28	-10.00	170.66
5	1.43	97.11	-10.00	207.55	-10.00	106.50
10	2.35	92.12	-10.00	186.51	-10.00	100.00
15	2.56	87.12	-10.00	181.76	-10.00	100.00
20	2.21	82.13	-10.00	189.73	-10.00	100.00
25	2.07	77.14	-10.00	193.03	-10.00	100.00
30	1.86	72.15	-10.00	198.40	-10.00	100.00
35	1.59	67.16	-10.00	205.57	-10.00	102.44
40	1.29	62.18	-10.00	211.49	-10.00	110.05
45	1.06	57.21	-10.00	218.42	-10.00	116.05
50	1.10	52.22	-10.00	217.17	-10.00	114.99
55	1.07	47.24	-9.86	218.76	-9.86	116.17
60	1.41	42.24	-8.64	214.51	-8.64	111.05
65	1.06	37.30	-7.29	232.56	-7.29	124.13
70	0.55	32.39	-5.76	272.41	-5.76	151.17
75	0.41	27.47	-3.97	299.21	-3.97	172.40
80	0.28	22.59	-1.85	331.71	-1.85	193.97
85	0.00	17.81	0.74	362.27	0.74	210.39
90	0.35	12.96	4.19	370.25	4.19	210.41
95	0.00	8.67	8.55	425.98	8.55	245.15
100	0.64	4.81	14.94	743.12	14.94	448.01
105	1.30	4.65	15.31	549.46	15.31	312.69
110	1.85	7.87	9.60	326.60	9.60	170.34
115	2.07	11.31	5.66	284.68	5.66	144.66
120	2.00	14.88	2.69	264.17	2.69	134.37
125	1.75	18.47	0.34	256.28	0.34	132.85
130	1.67	21.83	-1.48	246.81	-1.48	128.26
135	1.63	25.03	-2.96	238.99	-2.96	124.10
140	1.93	27.78	-4.09	222.71	-4.09	112.61
145	2.35	30.22	-5.01	207.84	-5.01	100.76
150	2.64	32.49	-5.79	200.30	-5.79	100.00
155	2.99	34.40	-6.41	189.73	-6.41	100.00
160	3.34	35.95	-6.89	179.64	-6.89	100.00
165	3.58	37.20	-7.26	172.29	-7.26	100.00
170	3.61	38.25	-7.56	169.96	-7.56	100.00
175	3.44	39.07	-7.80	172.74	-7.80	100.00
180	3.26	39.47	-7.91	176.19	-7.91	100.00
185	3.18	39.33	-7.87	178.16	-7.87	100.00

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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
Short Term	-146.0 dBW/MHz	0.01%	-131.0 dBW/4 kHz
Max Available RF Power			-2.7 (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	3.02	38.82	-7.73	182.45	-7.73	100.00
195	2.64	38.09	-7.52	191.94	-7.52	100.00
200	1.92	37.24	-7.28	206.80	-7.28	102.46
205	1.92	35.33	-6.70	209.47	-6.70	104.16
210	2.10	32.94	-5.94	208.87	-5.94	102.64
215	2.05	30.46	-5.09	214.32	-5.09	106.58
220	1.62	28.03	-4.19	231.98	-4.19	120.06
225	1.61	25.04	-2.97	239.39	-2.97	124.40
230	1.19	22.19	-1.65	263.07	-1.65	138.60
235	0.89	19.09	-0.02	289.22	-0.02	156.33
240	0.98	15.59	2.18	299.57	2.18	161.22
245	1.33	11.83	5.17	308.84	5.17	163.67
250	2.08	7.73	9.80	319.90	9.80	163.15
255	2.41	3.84	17.38	554.04	17.38	315.04
260	2.34	3.46	18.54	740.33	18.54	445.89
265	1.33	8.07	9.33	345.12	9.33	184.88
270	0.69	12.91	4.22	337.23	4.22	188.34
275	0.21	17.82	0.73	361.48	0.73	209.83
280	0.20	22.67	-1.89	341.96	-1.89	201.62
285	0.24	27.56	-4.01	321.31	-4.01	189.60
290	0.47	32.46	-5.78	279.18	-5.78	156.78
295	0.00	37.47	-7.34	302.76	-7.34	180.97
300	0.00	42.42	-8.69	293.76	-8.69	175.75
305	0.00	47.38	-9.89	285.98	-9.89	171.09
310	0.00	52.35	-10.00	285.28	-10.00	170.66
315	0.00	57.32	-10.00	285.28	-10.00	170.66
320	0.00	62.29	-10.00	285.28	-10.00	170.66
325	0.00	67.27	-10.00	285.28	-10.00	170.66
330	0.00	72.25	-10.00	285.28	-10.00	170.66
335	0.00	77.23	-10.00	285.28	-10.00	170.66
340	0.00	82.21	-10.00	285.28	-10.00	170.66
345	0.00	87.19	-10.00	285.28	-10.00	170.66
350	0.00	92.17	-10.00	285.28	-10.00	170.66
355	0.00	97.15	-10.00	285.28	-10.00	170.66