



August 21, 2019

Re: Comcast Cable Communications Mgt LLC
LITTLETON, CO (Suburban #4)
C-Band Transmit Only Earth Station
Job Number: 190821COMSGE01

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 coordination data on behalf of Comcast Cable Communications Mgt LLC, 7235 West Titan Road Littleton, CO 80125 for a C-Band Transmit Only Earth Station to be located in LITTLETON, CO.

The coordination notice is being circulated to the owners (or their protection agents) of all existing or proposed terrestrial facilities operating in a shared frequency band within the coordination contours of the proposed station(s).

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 have not been resolved, please contact us by September 25, 2019.

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

Sincerely,

COMSEARCH

Gary K. Edwards
Senior Manager
gedwards@comsearch.com

Enclosure(s)

Date: 08/21/2019
Job Number: 190821COMSGE01

Administrative Information

Status ENGINEER PROPOSAL
Call Sign
Licensee Code COMGTL
Licensee Name Comcast Cable Communications Mgt LLC

Site Information

LITTLETON, CO
Venue Name SUBURBAN #4
Latitude (NAD 83) 39° 34' 45.5" N
Longitude (NAD 83) 104° 56' 16.6" W
Climate Zone A
Rain Zone 2
Ground Elevation (AMSL) 1729.86 m / 5675.4 ft

Link Information

Satellite Type Geostationary
Mode TO - Transmit-Only
Modulation Analog and Digital
Satellite Arc 65° W to 145° West Longitude
Azimuth Range 127.3° to 232.8°
Corresponding Elevation Angles 28.6° / 28.5°
Antenna Centerline (AGL) 5.79 m / 19.0 ft

Antenna Information

Transmit - FCC32
Manufacturer Vertex
Model 9 KPC
Gain / Diameter 53.5 dBi / 9.0 m
3-dB / 15-dB Beamwidth 0.40° / 0.80°

Max Available RF Power	(dBW/4 kHz)	-0.5	
	(dBW/MHz)	23.5	
Maximum EIRP	(dBW/4 kHz)	53.0	
	(dBW/MHz)	77.0	
Interference Objectives:	Long Term	-154.0 dBW/4 kHz	20%
	Short Term	-131.0 dBW/4 kHz	0.0025%

Frequency Information

Transmit 6.1 GHz
Emission / Frequency Range (MHz) 36M0F3W - 36M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 197.6 km / 122.8 mi
Precipitation Scatter Contour Radius 147.4 km / 91.6 mi

Coordination Values	LITTLETON, CO
Licensee Name	Comcast Cable Communications Mgt LLC
Latitude (NAD 83)	39° 34' 45.5" N
Longitude (NAD 83)	104° 56' 16.6" W
Ground Elevation (AMSL)	1729.86 m / 5675.4 ft
Antenna Centerline (AGL)	5.79 m / 19.0 ft
Antenna Model	Vertex 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	-0.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	0.00	122.05	-10.00	179.20
5	0.00	117.96	-10.00	179.20
10	0.00	113.72	-10.00	179.20
15	0.00	109.44	-10.00	179.20
20	0.00	105.11	-10.00	179.20
25	0.00	100.76	-10.00	179.20
30	0.00	96.38	-10.00	179.20
35	0.21	92.00	-10.00	177.66
40	0.30	87.60	-10.00	167.84
45	0.29	83.20	-10.00	169.57
50	0.36	78.81	-10.00	159.98
55	0.46	74.42	-10.00	150.05
60	0.54	70.07	-10.00	144.70
65	0.46	65.78	-10.00	150.73
70	0.55	61.50	-10.00	144.28
75	0.61	57.29	-10.00	141.08
80	0.66	53.17	-10.00	138.39
85	0.83	49.10	-10.00	131.63
90	0.84	45.24	-9.39	133.32
95	0.90	41.53	-8.46	133.49
100	0.86	38.12	-7.53	136.84
105	0.89	34.99	-6.60	138.98
110	0.85	32.32	-5.74	144.05
115	0.70	30.27	-5.03	154.52
120	0.64	28.81	-4.49	160.42
125	0.76	27.92	-4.15	155.21
130	0.78	27.94	-4.16	154.14
135	0.93	28.64	-4.42	144.83
140	0.99	30.18	-4.99	139.77
145	1.28	32.19	-5.69	131.03
150	1.30	34.78	-6.53	127.67
155	0.88	37.48	-7.34	136.71
160	0.99	39.40	-7.89	131.11
165	1.37	40.68	-8.23	120.22
170	0.92	42.29	-8.66	131.74
175	0.92	43.03	-8.84	131.21
180	1.00	43.19	-8.89	127.57
185	1.19	42.77	-8.78	123.14

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Max Available RF Power	-0.5 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Transmit 6.1 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
190	1.35	41.88	-8.55	119.65
195	1.05	40.98	-8.31	128.24
200	1.07	39.33	-7.87	129.00
205	1.04	37.34	-7.30	131.75
210	0.95	35.06	-6.62	135.93
215	0.84	32.54	-5.81	144.02
220	0.69	30.43	-5.08	155.07
225	0.54	28.96	-4.55	165.87
230	0.34	28.30	-4.30	187.05
235	0.24	28.35	-4.31	197.53
240	0.26	29.07	-4.58	193.55
245	0.00	30.79	-5.21	197.61
250	0.00	32.90	-5.93	194.87
255	0.00	35.53	-6.76	191.67
260	0.00	38.57	-7.66	188.24
265	0.00	41.93	-8.56	184.75
270	0.00	45.54	-9.46	181.28
275	0.00	49.35	-10.00	179.20
280	0.00	53.30	-10.00	179.20
285	0.00	57.37	-10.00	179.20
290	0.00	61.53	-10.00	179.20
295	0.00	65.77	-10.00	179.20
300	0.00	70.05	-10.00	179.20
305	0.00	74.38	-10.00	179.20
310	0.00	78.73	-10.00	179.20
315	0.00	83.11	-10.00	179.20
320	0.00	87.50	-10.00	179.20
325	0.00	91.89	-10.00	179.20
330	0.00	96.28	-10.00	179.20
335	0.00	100.66	-10.00	179.20
340	0.00	105.02	-10.00	179.20
345	0.00	109.35	-10.00	179.20
350	0.00	113.64	-10.00	179.20
355	0.00	117.88	-10.00	179.20