

Exhibit C

Prepared By

COMSEARCH

21515 Ridgetop Circle, Suite 300
Sterling, Va. 20166
(703)726-5500 <http://www.comsearch.com>

Prepared For

Intelsat License LLC Castle Rock, Colorado

Temporary Transmit-Only Earth Station
Operation Dates: 09/30/2022 - 03/30/2023

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 August 26, 2022.

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 08/26/2022.

Company

AC BidCO LLC
AT&T Mobility Spectrum LLC - CO
AT&T Mobility Spectrum LLC - KS, MO
AT&T Mobility Spectrum LLC - Utah
Aerux LLP
AirLife Denver
Arvada Police Dept.
BAM Broadband Opco LLC
BNSF Railway Company
Black Hawk Police Department
Black Hills Corporation
Boulder, County of
CBS Television Stations
CableLabs
Cellco Partnership - CO/ID/MT/WY/UT
Cellular Inc. Network Corporation
Citizens Telecommunications Co of Utah
City of Aurora
City of Colorado Springs
City of Lakewood, CO
Colorado Interstate Gas Company
Colorado Springs Utilities
Core Electric Cooperative
County of Pueblo

Denver, City and County of
Douglas County Sheriff's Office (CO)
Elbert County Communications Authority
Entravision Holdings, LLC
Federal Communication Commission
Futurum Communications Corporation
Gilpin County Sheriff's Office
Gray Television Licensee, LLC
Grazi Communications, LLC
Holy Cross Electric Association, Inc.
Industrial Tower and Wireless, LLC
Jefferson, County of
KN Telecommunications, Inc.
KSE Radio Ventures, LLC
Kellin Communications
LP Broadband, Inc.
Live Wire Networks, Inc.
MHO Networks
Midwest Energy, Inc.
Mountain View Electric Association, Inc.
NE Colorado Cellular, Inc.
New Cingular Wireless PCS LLC -Colorado
New Cingular Wireless PCS LLC-Utah
New Cingular Wireless PCS, LLC - KS, MO
Nex-Tech Wireless, LLC
Northwest Pipeline GP
Nucla Naturita Telephone Company
Olympic Wireless, LLC
PacifiCorp
Pitkin County
Public Broadcasting of Colorado, Inc.
Qwest Corporation
Roggen Enterprises Broadband LLC
Scripps Broadcasting Holdings, LLC,
Sprint Spectrum LLC
State of Colorado
Sunflower Electric Power Corporation
T-Mobile License LLC
Tallgrass Operations, LLC
Tri-State Generation & Transmission Assn
Tribune Broadcasting Company II, LLC
Union Pacific Railroad Company
United Power
University Corp for Atmospheric Research
University of Utah - Education Network
Utah Communications Authority
Xcel Energy Services, Inc.
Xiber, LLC
Y-W Electric Association, Inc

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: 09/05/2022
Job Number: 220826COMSGE05

Administrative Information

Status: TEMPORARY (Operation from 09/30/2022 to 03/30/2023)
Call Sign: E040174
Licensee Code: INTELS
Licensee Name: Intelsat License LLC

Site Information

CASTLE ROCK, CO
Venue Name: CC5
Latitude (NAD 83): 39° 16' 33.0" N
Longitude (NAD 83): 104° 48' 34.0" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 2088.0 m / 6850.4 ft
Country: ESID:9416

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 33° W to 177° West Longitude
Azimuth Range: 101.8° to 258.5°
Corresponding Elevation Angles: 5.3° / 5.0°
Antenna Centerline (AGL): 5.49 m / 18.0 ft

Antenna Information

		Receive - FCC32		Transmit - FCC32	
Manufacturer		Vertex		Vertex	
Model		9 Meter		9 Meter	
Gain / Diameter		50.2 dBi / 9.0 m		53.8 dBi / 9.0 m	
3-dB / 15-dB Beamwidth		0.60° / 1.20°		0.20° / 0.40°	
Max Available RF Power	(dBW/4 kHz) (dBW/MHz)			8.2 32.2	
Maximum EIRP	(dBW/4 kHz) (dBW/MHz) (dBW)			62.0 86.0	
Interference Objectives:	Long Term Short Term	-156.0 dBW/MHz -146.0 dBW/MHz	20% 0.01%	-154.0 dBW/4 kHz -131.0 dBW/4 kHz	20% 0.0025%

Frequency Information

	Receive 4.0 GHz	Transmit 6.1 GHz
Emission / Frequency Range (MHz)	500KG2D - 1M00F2D / 3700.0 - 4200.0	1M00F2D - 1M50F2D / 6415.0 - 6425.0
Max Great Circle Coordination Distance	677.5 km / 421.0 mi	534.2 km / 331.9 mi
Precipitation Scatter Contour Radius	619.4 km / 384.8 mi	475.3 km / 295.3 mi

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Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Coordination Values

CASTLE ROCK, CO

Licensee Name Intelsat License LLC
Latitude (NAD 83) 39° 16' 33.0" N
Longitude (NAD 83) 104° 48' 34.0" W
Ground Elevation (AMSL) 2088.0 m / 6850.4 ft
Antenna Centerline (AGL) 5.49 m / 18.0 ft
Antenna Model Vertex 9 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 8.2 (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	5.56	101.50	-10.00	129.43	-10.00	100.00
5	5.05	96.75	-10.00	134.32	-10.00	100.00
10	4.28	91.75	-10.00	143.60	-10.00	100.00
15	3.94	86.75	-10.00	149.18	-10.00	100.00
20	4.03	81.76	-10.00	147.38	-10.00	100.00
25	3.95	76.76	-10.00	148.98	-10.00	100.00
30	3.74	71.76	-10.00	153.20	-10.00	100.00
35	3.43	66.77	-10.00	159.90	-10.00	101.94
40	3.49	61.77	-10.00	158.56	-10.00	100.83
45	2.96	56.79	-10.00	172.32	-10.00	110.45
50	2.41	51.81	-10.00	185.04	-10.00	120.83
55	1.98	46.85	-9.77	196.04	-9.77	130.15
60	1.22	41.92	-8.56	220.59	-8.56	153.86
65	1.02	36.97	-7.20	234.70	-7.20	168.44
70	0.00	32.15	-5.68	314.87	-5.68	229.45
75	0.00	27.24	-3.88	327.71	-3.88	237.78
80	0.00	22.36	-1.74	343.45	-1.74	248.20
85	0.00	17.56	0.89	363.46	0.89	261.27
90	0.00	12.89	4.25	389.50	4.25	280.48
95	0.24	8.45	8.83	423.77	8.83	305.32
100	0.00	5.60	13.29	662.32	13.29	521.00
105	0.00	6.23	12.13	509.00	12.13	379.94
110	0.00	9.71	7.32	415.30	7.32	299.76
115	0.28	13.21	3.98	376.85	3.98	269.05
120	0.38	16.78	1.38	343.68	1.38	245.04
125	0.30	20.38	-0.73	337.37	-0.73	242.25
130	0.53	23.65	-2.34	297.18	-2.34	213.43
135	0.43	27.01	-3.79	297.97	-3.79	215.28
140	0.47	30.11	-4.97	285.39	-4.97	206.92
145	0.81	32.77	-5.89	254.74	-5.89	185.40
150	1.37	34.98	-6.60	226.35	-6.60	158.38
155	1.48	37.25	-7.28	219.21	-7.28	151.85
160	1.39	39.35	-7.87	219.11	-7.87	152.05
165	1.44	40.93	-8.30	215.27	-8.30	148.54
170	1.63	41.94	-8.57	208.69	-8.57	142.28
175	1.89	42.41	-8.69	203.58	-8.69	135.18
180	2.28	42.26	-8.65	194.54	-8.65	128.46
185	2.66	41.64	-8.49	186.88	-8.49	121.90

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Coordination Values

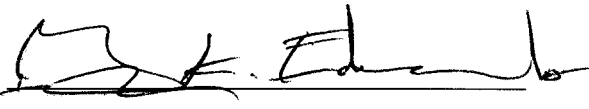
CASTLE ROCK, CO

Licensee Name	Intelsat License LLC				
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Antenna Mode	Receive 4.0 GHz				
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	Transmit 6.1 GHz	-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	8.2 (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	3.05	40.56	-8.20	179.53	-8.20	115.77
195	3.26	39.22	-7.84	176.48	-7.84	113.22
200	3.61	37.35	-7.31	171.49	-7.31	109.16
205	3.31	35.68	-6.81	180.78	-6.81	116.46
210	2.95	33.68	-6.19	191.72	-6.19	125.21
215	2.97	31.07	-5.31	195.70	-5.31	128.08
220	3.20	28.04	-4.19	196.35	-4.19	128.00
225	3.46	24.78	-2.85	197.74	-2.85	128.42
230	3.47	21.54	-1.33	205.21	-1.33	134.04
235	3.43	18.18	0.51	213.29	0.51	140.91
240	3.38	14.72	2.80	228.15	2.80	152.45
245	3.49	11.05	5.92	246.71	5.92	165.55
250	3.48	7.40	10.27	281.11	10.27	190.26
255	3.69	3.53	18.30	455.16	18.30	329.28
260	3.65	2.03	24.29	677.54	24.29	534.19
265	3.71	6.63	11.46	284.24	11.46	191.51
270	4.02	11.54	5.44	230.75	5.44	151.85
275	3.98	16.53	1.54	207.77	1.54	135.23
280	3.97	21.52	-1.32	195.23	-1.32	125.40
285	4.88	26.50	-3.58	165.77	-3.58	104.29
290	5.73	31.50	-5.46	145.63	-5.46	100.00
295	6.10	36.51	-7.06	134.57	-7.06	100.00
300	5.63	41.50	-8.45	134.88	-8.45	100.00
305	5.15	46.50	-9.69	134.62	-9.69	100.00
310	5.48	51.50	-10.00	130.20	-10.00	100.00
315	5.32	56.50	-10.00	131.71	-10.00	100.00
320	4.97	61.50	-10.00	134.00	-10.00	100.00
325	4.57	66.50	-10.00	139.43	-10.00	100.00
330	4.41	71.50	-10.00	141.71	-10.00	100.00
335	4.77	76.50	-10.00	136.64	-10.00	100.00
340	5.21	81.50	-10.00	132.79	-10.00	100.00
345	5.68	86.50	-10.00	128.23	-10.00	100.00
350	5.80	91.50	-10.00	127.12	-10.00	100.00
355	5.95	96.50	-10.00	125.67	-10.00	100.00

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
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166

DATED: September 05, 2022