

Prepared By

**COMSEARCH**

19700 Janelia Farm Boulevard, Ashburn, VA 20147  
(703)726-5500 <http://www.comsearch.com>

Prepared For

**PanAmSat Licensee Corp.  
CASTLE ROCK, COLORADO**

Temporary Receive-Only Earth Station  
Operation Dates: 12/19/2010 - 03/19/2011

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 November 8, 2010.

Company

Aspen Television, LLC  
BARRINGTON COLORADO SPRINGS LICENSE LLC  
BETA BROADCASTING, INC.  
CBS Television Stations  
CLIFFORD HOELSCHER & WIFE-JEAN L  
COLORADO PUBLIC TELEVISION, INC. KDBI-TV  
COMCAST OF COLORADO/FLORIDA, INC.  
COMMUNITY TV OF COLORADO LICENSE, LLC  
Comcast of Colorado/Pennsylvania/WV LLC  
DENVER BROADCASTING, INC.  
DENVER DIGITAL TELEVISION, LLC  
ENTRAVISION HOLDINGS, LLC  
FRONT RANGE EDUCATIONAL MEDIA CORP.  
FULL GOSPEL OUTREACH, INC.  
Gray Television Licensee, Inc.  
Gray Television Licensee, Inc. (KKTV)  
Hoak Media of Colorado, LLC  
ION MEDIA DENVER LICENSE, INC.  
JAMES CABLE, LLC  
JONES EARTH SEGMENT INC  
James Cable Partners L.P.  
KWGN TV, Inc.  
MAIN STREET BROADCASTING  
MCGRAW-HILL BROADCASTING COMP - KMGH  
MESA COUNTY (BROADCASTING)  
MONTEZUMA DELORES METROPOLITAN RECREATON  
Multimedia Holdings Corporation  
NBC TELEMUNDO LICENSE CO.  
PIKES PEAK TELEVISION, INC.  
Pikes Peak Broadcasting Company Inc.  
RESORT SPORTS NETWORK  
ROCKY MOUNTAIN PUBLIC BROADCASTING

Company (Continued)

RESORT SPORTS NETWORK  
ROCKY MOUNTAIN PUBLIC BROADCASTING  
SANDE FAMILY TRUST  
SANGRE DE CRISTO COMMUNICATIONS, INC.  
Sagamorehill Broadcasting of WY N CO LLC  
Time Warner NY Cable LLC  
Trinity Broadcasting Network Inc  
Trinity Broadcasting of Denver, Inc.  
Vyvx, LLC  
W RUSSELL WITHERS JR.  
WORD OF GOD FELLOWSHIP, INC.  
WYOMEDIA CORPORATION

There are no unresolved interference objections with the stations contained in this application.

The following section presents the data pertinent to the frequency coordination of the earth station that was circulated to all carriers within its coordination contours.

# COMSEARCH

## Earth Station Data Sheet

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Date: 11/08/2010  
Job Number: 101108COMSJC03

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### Administrative Information

Status TEMPORARY (Operation from 12/19/2010 to 03/19/2011)  
Call Sign TEMP03  
Licensee Code PANAS  
Licensee Name PanAmSat Licensee Corp.

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### Site Information

**CASTLE ROCK, COLORADO**

Venue Name  
Latitude (NAD 83) 39° 16' 38.0" N  
Longitude (NAD 83) 104° 48' 26.9" W  
Climate Zone A  
Rain Zone 2  
Ground Elevation (AMSL) 2091.1 m / 6860.6 ft

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### Link Information

Satellite Type Low Earth Orbit  
Mode RO - Receive-Only  
Modulation Digital  
Minimum Elevation Angle 5.0°  
Azimuth Range 0.0° to 360°  
Antenna Centerline (AGL) 9.45 m / 31.0 ft

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### Antenna Information

Manufacturer NEC  
Model 12.5 Meter  
Gain / Diameter 62.0 dBi / 12.5 m  
3-dB / 15-dB Beamwidth 0.20° / 0.40°

### Receive

Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

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### Frequency Information

Emission / Frequency Range (MHz) **Receive 13.0 GHz**  
150KGXD / 12251.5  
150KGXD / 12748.5

Max Great Circle Coordination Distance 319.2 km / 198.3 mi  
Precipitation Scatter Contour Radius 455.7 km / 283.1 mi

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## Earth Station Data Sheet

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### Coordination Values

### CASTLE ROCK, CO

Licensee Name	PanAmSat Licensee Corp.		
Latitude (NAD 83)	39° 16' 38.0" N		
Longitude (NAD 83)	104° 48' 26.9" W		
Ground Elevation (AMSL)	2091.1 m / 6860.6 ft		
Antenna Centerline (AGL)	9.45 m / 31.0 ft		
Antenna Model	NEC 12.5 Meter		
Antenna Mode	Receive 13.0 GHz		
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%
	Short Term	-146.0 dBW/MHz	0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 13.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
0	4.74	81.35	4.50	319.20
5	4.78	76.82	4.50	319.20
10	5.17	72.36	4.50	319.20
15	5.03	67.86	4.50	319.20
20	5.27	63.47	4.50	319.20
25	5.07	59.02	4.50	319.20
30	4.81	54.61	4.50	319.20
35	4.30	50.15	4.50	319.20
40	3.43	45.59	4.50	319.20
45	2.98	41.26	4.50	319.20
50	2.14	36.84	4.50	319.20
55	2.05	32.98	4.50	319.20
60	1.93	29.39	4.50	319.20
65	0.82	25.44	4.50	319.20
70	0.76	22.81	4.50	319.20
75	0.00	20.33	4.50	319.20
80	0.00	19.61	4.50	319.20
85	0.00	20.09	4.50	319.20
90	0.00	21.70	4.50	319.20
95	0.00	24.21	4.50	319.20
100	0.00	27.37	4.50	319.20
105	0.00	30.99	4.50	319.20
110	0.00	34.92	4.50	319.20
115	0.00	39.07	4.50	319.20
120	0.23	43.46	4.50	319.20
125	0.00	47.78	4.50	319.20
130	0.42	52.39	4.50	319.20
135	0.36	56.92	4.50	319.20
140	0.42	61.52	4.50	319.20
145	0.37	66.13	4.50	319.20
150	0.50	70.80	4.50	319.20
155	0.77	75.49	4.50	319.20
160	0.85	80.17	4.50	319.20
165	0.93	84.85	4.50	319.20
170	0.96	89.53	4.50	319.20
175	0.83	94.21	4.50	319.20
180	0.77	98.90	4.50	319.20

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### Coordination Values

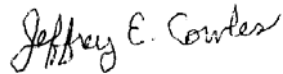
### CASTLE ROCK, CO

Licensee Name PanAmSat Licensee Corp.  
Latitude (NAD 83) 39° 16' 38.0" N  
Longitude (NAD 83) 104° 48' 26.9" W  
Ground Elevation (AMSL) 2091.1 m / 6860.6 ft  
Antenna Centerline (AGL) 9.45 m / 31.0 ft  
Antenna Model NEC 12.5 Meter  
Antenna Mode Receive 13.0 GHz  
Interference Objectives: Long Term -156.0 dBW/MHz 20%  
Short Term -146.0 dBW/MHz 0.01%

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 13.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)
185	0.68	103.58	4.50	319.20
190	1.31	108.17	4.50	319.20
195	0.61	112.90	4.50	319.20
200	1.21	117.40	4.50	319.20
205	1.05	122.00	4.50	319.20
210	1.60	126.37	4.50	319.20
215	1.29	130.90	4.50	319.20
220	2.02	134.98	4.50	319.20
225	2.10	139.15	4.50	319.20
230	2.28	143.09	4.50	319.20
235	2.27	146.89	4.50	319.20
240	2.41	150.27	4.50	319.20
245	2.52	153.21	4.50	319.20
250	2.66	155.50	4.50	319.20
255	2.68	157.08	4.50	319.20
260	2.71	157.69	4.50	319.20
265	2.81	157.16	4.50	319.20
270	3.49	155.13	4.50	319.20
275	3.48	152.96	4.50	319.20
280	3.58	150.06	4.50	319.20
285	3.81	146.62	4.50	319.20
290	4.05	142.87	4.50	319.20
295	3.87	139.11	4.50	319.20
300	3.81	135.08	4.50	319.20
305	4.15	130.76	4.50	319.20
310	4.93	126.22	4.50	319.20
315	5.81	121.64	4.50	319.20
320	6.45	117.13	4.50	319.20
325	6.01	112.84	4.50	319.20
330	5.21	108.54	4.50	319.20
335	4.42	104.13	4.50	319.20
340	4.30	99.59	4.50	319.20
345	4.19	95.03	4.50	319.20
350	4.15	90.46	4.50	319.20
355	4.49	85.89	4.50	319.20

## Certification

I hereby certify that I am the technically qualified person responsible for the preparation of the frequency coordination data contained in this report. I am familiar with Parts 101 and 25 of the FCC Rules and Regulations and I have either prepared or reviewed the frequency coordination data submitted with this report, and that it is complete and correct to the best of my knowledge and belief.

A handwritten signature in black ink that reads "Jeffrey E. Cowles". The signature is written in a cursive style. To the right of the signature is a vertical red line.

Jeffrey E. Cowles  
Engineer III, Telecommunications  
COMSEARCH  
19700 Janelia Farm Blvd.  
Ashburn, Va. 20147

DATED: November 19, 2010