

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**Disney Channel  
Burbank 7, California  
(Call Sign: E950058)**

**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, Virginia 20147  
September 26, 2013

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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.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the transmit-receive earth station.

### Company

Los Angeles City Info. Technology Agency  
Los Angeles County Dept. of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
Metropolitan Water District of Southern California  
Nextel of California, Inc.  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Authority

No other carriers reported potential interference cases.

### 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.

Expedited coordination data for this earth station was emailed and sent to the below listed carriers with a letter dated August 25, 2013.

#### Company

ABC Holding Company Inc.  
ANAHEIM CITY, COMMUNICATIONS DIVISION  
AT&T California  
AirSites2000, LLC  
American Tower, LLC  
CCO SoCal I, LLC  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Calvary Chapel of Costa Mesa  
City Of Los Angeles, Dept Water & Power  
Entravision Holdings, LLC  
Fresno MSA Limited Partnership  
GTE Mobilnet of California LTD Partnersh  
KTLA, LLC  
Kern, County of  
LOS ANGELES UNIFIED SCHOOL DISTRICT  
Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
MONTEBELLO CITY CALIFORNIA  
Metropolitan Water Dist of So California  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
Nextel of California Inc.  
Nextweb, Inc.  
ORANGE, COUNTY OF, CA  
PAXSON LOS ANGELES LICENSE, INC.  
Regents of the University of California  
Riverside, County of  
San Bernardino County of California  
Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of

Company (Continued)

Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
T-Mobile License LLC  
TV MICROWAVES CO  
Turn Wireless, LLC  
Ultimate Internet Access, Inc.  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Vintage Production California LLC  
Western Technical Services

## **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: 09/26/2013  
Job Number: 130825COMSJC02

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign E950058  
Licensee Code ZDISNE  
Licensee Name Disney Channel

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### Site Information BURBANK 7, CALIFORNIA

Venue Name  
Latitude (NAD 83) 34° 9' 13.0" N  
Longitude (NAD 83) 118° 20' 29.3" W  
Climate Zone A  
Rain Zone 4  
Ground Elevation (AMSL) 164.59 m / 540.0 ft

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### Link Information

Satellite Type Geostationary  
Mode TR - Transmit-Receive  
Modulation Digital  
Satellite Arc 60° W to 143° West Longitude  
Azimuth Range 109.1° to 219.3°  
Corresponding Elevation Angles 17.4° / 42.4°  
Antenna Centerline (AGL) 4.57 m / 15.0 ft

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### Antenna Information

**Receive**  
Manufacturer RSI  
Model 700 CS  
Gain / Diameter 47.0 dBi / 7.0 m  
3-dB / 15-dB Beamwidth 0.70° / 1.42°

### Transmit

RSI  
700 CS  
51.1 dBi / 7.0 m  
0.48° / 0.96°

2M00G7W to 36M0G7W

Max Available RF Power	(dBW/4 kHz)	-2.7	-12.6		
	(dBW/MHz)	21.3	11.4		
Maximum EIRP	(dBW/4 kHz)	48.4	38.5		
	(dBW/MHz)	72.4	62.5		
	(dBW)	75.4	78.0		
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%

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### Frequency Information

Emission / Frequency Range (MHz) **Receive 4.0 GHz** 2M00G7W - 36M0G7W / 3700.0 - 4200.0 **Transmit 6.1 GHz** 2M00G7W - 36M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 321.6 km / 199.8 mi 191.1 km / 118.7 mi  
Precipitation Scatter Contour Radius 255.7 km / 158.9 mi 312.3 km / 194.0 mi



# COMSEARCH

## Earth Station Data Sheet

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

### Coordination Values

### BURBANK 7, CA

Licensee Name Disney Channel  
Latitude (NAD 83) 34° 9' 13.0" N  
Longitude (NAD 83) 118° 20' 29.3" W  
Ground Elevation (AMSL) 164.59 m / 540.0 ft  
Antenna Centerline (AGL) 4.57 m / 15.0 ft  
Antenna Model RSI 700 CS  
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	2.22	108.40	-10.00	189.46	-10.00	100.00
5	2.56	103.61	-10.00	181.62	-10.00	100.00
10	2.85	98.80	-10.00	174.94	-10.00	100.00
15	3.39	93.97	-10.00	160.67	-10.00	100.00
20	3.56	89.12	-10.00	156.91	-10.00	100.00
25	3.42	84.27	-10.00	159.96	-10.00	100.00
30	3.69	79.41	-10.00	154.17	-10.00	100.00
35	2.98	74.61	-10.00	172.00	-10.00	100.00
40	3.26	69.76	-10.00	163.56	-10.00	100.00
45	3.75	64.89	-10.00	152.99	-10.00	100.00
50	3.86	60.05	-10.00	150.67	-10.00	100.00
55	3.01	55.40	-10.00	171.33	-10.00	100.00
60	2.75	50.70	-10.00	177.22	-10.00	100.00
65	2.13	46.16	-9.61	193.38	-9.61	100.00
70	1.43	41.76	-8.52	214.70	-8.52	111.06
75	0.61	37.57	-7.37	258.15	-7.37	142.21
80	0.00	33.53	-6.14	311.05	-6.14	185.62
85	0.00	29.44	-4.72	321.65	-4.72	191.05
90	0.88	25.08	-2.98	269.13	-2.98	144.77
95	1.56	21.12	-1.12	253.09	-1.12	132.23
100	1.63	18.19	0.51	261.55	0.51	135.02
105	2.44	15.55	2.21	248.16	2.21	125.30
110	2.29	15.18	2.47	254.10	2.47	129.06
115	2.79	15.78	2.05	237.80	2.05	118.05
120	4.36	16.97	1.26	202.56	1.26	100.00
125	4.76	20.23	-0.65	185.83	-0.65	100.00
130	5.01	23.76	-2.39	172.10	-2.39	100.00
135	6.41	26.33	-3.51	146.81	-3.51	100.00
140	8.36	28.24	-4.27	123.95	-4.27	100.00
145	9.35	30.50	-5.11	111.85	-5.11	100.00
150	9.15	33.37	-6.08	109.56	-6.08	100.00
155	8.96	35.89	-6.87	107.88	-6.87	100.00
160	8.28	38.47	-7.63	110.77	-7.63	100.00
165	4.82	43.26	-8.90	140.59	-8.90	100.00
170	3.27	45.98	-9.56	165.66	-9.56	100.00
175	2.90	47.14	-9.83	174.60	-9.83	100.00
180	2.60	47.70	-9.96	180.86	-9.96	100.00

# COMSEARCH

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### Coordination Values


### BURBANK 7, CA

Licensee Name	Disney Channel			
Latitude (NAD 83)	34° 9' 13.0" N			
Longitude (NAD 83)	118° 20' 29.3" W			
Ground Elevation (AMSL)	164.59 m / 540.0 ft			
Antenna Centerline (AGL)	4.57 m / 15.0 ft			
Antenna Model	RSI 700 CS			
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)
185	2.71	47.32	-9.88	178.74	-9.88	100.00
190	3.00	46.24	-9.62	173.27	-9.62	100.00
195	3.21	44.72	-9.26	170.27	-9.26	100.00
200	2.96	43.16	-8.88	178.18	-8.88	100.00
205	3.04	41.42	-8.43	178.43	-8.43	100.00
210	2.95	40.30	-8.13	182.00	-8.13	100.00
215	3.29	39.26	-7.85	175.78	-7.85	100.00
220	4.04	38.32	-7.58	158.81	-7.58	100.00
225	3.19	39.51	-7.92	177.67	-7.92	100.00
230	2.63	40.91	-8.30	188.36	-8.30	100.00
235	1.96	42.85	-8.80	201.06	-8.80	100.00
240	2.07	44.48	-9.20	196.54	-9.20	100.00
245	1.65	46.93	-9.79	204.87	-9.79	101.53
250	1.63	49.35	-10.00	204.40	-10.00	101.34
255	1.10	52.39	-10.00	217.32	-10.00	115.12
260	0.53	55.62	-10.00	247.57	-10.00	137.67
265	0.36	58.75	-10.00	266.18	-10.00	152.56
270	0.44	61.90	-10.00	256.32	-10.00	144.46
275	0.34	65.27	-10.00	268.15	-10.00	154.22
280	0.34	68.70	-10.00	267.56	-10.00	153.71
285	0.38	72.21	-10.00	263.53	-10.00	150.35
290	0.40	75.79	-10.00	260.76	-10.00	148.07
295	0.39	79.44	-10.00	262.40	-10.00	149.42
300	0.38	83.12	-10.00	262.93	-10.00	149.86
305	0.41	86.82	-10.00	259.74	-10.00	147.24
310	0.42	90.54	-10.00	259.26	-10.00	146.84
315	0.44	94.26	-10.00	256.30	-10.00	144.45
320	0.47	97.97	-10.00	253.12	-10.00	141.91
325	0.50	101.65	-10.00	249.46	-10.00	139.13
330	0.54	105.30	-10.00	247.23	-10.00	137.40
335	0.56	108.88	-10.00	245.97	-10.00	136.44
340	0.57	112.40	-10.00	245.08	-10.00	135.76
345	0.57	115.81	-10.00	245.44	-10.00	136.04
350	0.60	117.74	-10.00	243.11	-10.00	134.26
355	1.56	113.12	-10.00	206.40	-10.00	103.22

## 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.



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

DATED: September 26, 2013

# FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for

**Disney Channel  
Burbank 9.2, California  
(Call Sign: E950058)**

**Satellite Earth Station**

Prepared By:  
COMSEARCH  
19700 Janelia Farm Boulevard  
Ashburn, Virginia 20147  
September 26, 2013

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## 1. CONCLUSIONS

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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.

The following companies reported potential great circle interference conflicts that did not meet the objectives on a line-of-sight basis. When over-the-horizon losses are considered on the interfering paths, sufficient blockage exists to negate harmful interference from occurring with the transmit-receive earth station.

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Los Angeles County Dept. of Public Works  
Los Angeles County FCC Licensing Section  
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Southern California Gas Company  
Southern California Regional Rail Authority

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AT&T California  
AirSites2000, LLC  
American Tower, LLC  
CCO SoCal I, LLC  
CNG Communications, Inc.  
COAST COMMUNITY COLLEGE DISTRICT  
California, State of  
Calvary Chapel of Costa Mesa  
City Of Los Angeles, Dept Water & Power  
Entravision Holdings, LLC  
Fresno MSA Limited Partnership  
GTE Mobilnet of California LTD Partnersh  
KTLA, LLC  
Kern, County of  
LOS ANGELES UNIFIED SCHOOL DISTRICT  
Los Angeles City Info Technology Agency  
Los Angeles County Dept of Public Works  
Los Angeles County FCC Licensing Section  
Los Angeles SMSA Ltd. Partnership  
MHO Networks  
MOBILE RELAY ASSOCIATES INC  
MONTEBELLO CITY CALIFORNIA  
Metropolitan Water Dist of So California  
New Cingular Wireless PCS - Los Angeles  
New Cingular Wireless PCS LLC - N CAL  
Nextel of California Inc.  
Nextweb, Inc.  
ORANGE, COUNTY OF, CA  
PAXSON LOS ANGELES LICENSE, INC.  
Regents of the University of California  
Riverside, County of  
San Bernardino County of California



Company (Continued)

Santa Barbara Cellular Systems, Ltd.  
Santa Barbara, County of  
Skyriver Communications  
Southern California Edison Company  
Southern California Gas Company  
Southern California Regional Rail Auth.  
T-Mobile License LLC  
TV MICROWAVES CO  
Turn Wireless, LLC  
Ultimate Internet Access, Inc.  
Ventura, County of  
Verizon California Inc.  
Verizon Wireless (VAW) LLC (CA)  
Vintage Production California LLC  
Western Technical Services

## **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

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

Date: 09/26/2013  
Job Number: 130826COMSJC01

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### Administrative Information

Status ENGINEER PROPOSAL  
Call Sign E950058  
Licensee Code ZDISNE  
Licensee Name Disney Channel

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### Site Information BURBANK, CALIFORNIA

Venue Name  
Latitude (NAD 83) 34° 9' 13.0" N  
Longitude (NAD 83) 118° 20' 29.3" W  
Climate Zone A  
Rain Zone 4  
Ground Elevation (AMSL) 164.59 m / 540.0 ft

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### Link Information

Satellite Type Geostationary  
Mode TR - Transmit-Receive  
Modulation Digital  
Satellite Arc 60° W to 143° West Longitude  
Azimuth Range 109.1° to 219.3°  
Corresponding Elevation Angles 17.4° / 42.4°  
Antenna Centerline (AGL) 6.1 m / 20.0 ft

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### Antenna Information

**Receive**  
Manufacturer RSI  
Model 920 CS  
Gain / Diameter 50.1 dBi / 9.2 m  
3-dB / 15-dB Beamwidth 0.52° / 1.06°

### Transmit

RSI  
920 CS  
53.6 dBi / 9.2 m  
0.38° / 0.78°

2M00G7W to 36M0G7W

Max Available RF Power	(dBW/4 kHz)	-2.7	-15.1		
	(dBW/MHz)	21.3	8.9		
Maximum EIRP	(dBW/4 kHz)	50.9	38.5		
	(dBW/MHz)	74.9	62.5		
	(dBW)	77.9	78.0		
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%

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### Frequency Information

Emission / Frequency Range (MHz) **Receive 4.0 GHz** 2M00G7W - 36M0G7W / 3700.0 - 4200.0 **Transmit 6.1 GHz** 2M00G7W - 36M0G7W / 5925.0 - 6425.0

Max Great Circle Coordination Distance 321.6 km / 199.8 mi 191.1 km / 118.7 mi  
Precipitation Scatter Contour Radius 255.7 km / 158.9 mi 251.5 km / 156.3 mi

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## Earth Station Data Sheet

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### Coordination Values

### BURBANK, CA

Licensee Name Disney Channel  
Latitude (NAD 83) 34° 9' 13.0" N  
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Ground Elevation (AMSL) 164.59 m / 540.0 ft  
Antenna Centerline (AGL) 6.1 m / 20.0 ft  
Antenna Model RSI 920 CS  
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	2.21	108.40	-10.00	189.71	-10.00	100.00
5	2.55	103.61	-10.00	181.88	-10.00	100.00
10	2.84	98.80	-10.00	175.20	-10.00	100.00
15	3.38	93.97	-10.00	160.92	-10.00	100.00
20	3.55	89.12	-10.00	157.15	-10.00	100.00
25	3.41	84.27	-10.00	160.20	-10.00	100.00
30	3.68	79.41	-10.00	154.40	-10.00	100.00
35	2.96	74.61	-10.00	172.28	-10.00	100.00
40	3.25	69.76	-10.00	163.82	-10.00	100.00
45	3.74	64.89	-10.00	153.22	-10.00	100.00
50	3.85	60.05	-10.00	150.90	-10.00	100.00
55	2.99	55.40	-10.00	171.60	-10.00	100.00
60	2.74	50.70	-10.00	177.48	-10.00	100.00
65	2.12	46.16	-9.61	193.63	-9.61	100.00
70	1.41	41.76	-8.52	215.03	-8.52	111.34
75	0.60	37.57	-7.37	258.87	-7.37	142.78
80	0.00	33.53	-6.14	311.05	-6.14	185.62
85	0.00	29.44	-4.72	321.65	-4.72	191.05
90	0.85	25.10	-2.99	270.78	-2.99	146.04
95	1.54	21.14	-1.13	253.87	-1.13	132.78
100	1.61	18.21	0.49	262.35	0.49	135.60
105	2.41	15.57	2.19	248.72	2.19	125.71
110	2.27	15.20	2.45	254.59	2.45	129.41
115	2.77	15.80	2.03	238.27	2.03	118.41
120	4.34	16.99	1.25	202.87	1.25	100.00
125	4.72	20.26	-0.67	186.50	-0.67	100.00
130	4.96	23.78	-2.41	172.70	-2.41	100.00
135	6.38	26.35	-3.52	147.24	-3.52	100.00
140	8.33	28.27	-4.28	124.23	-4.28	100.00
145	9.31	30.53	-5.12	112.17	-5.12	100.00
150	9.11	33.40	-6.09	109.87	-6.09	100.00
155	8.92	35.92	-6.88	108.19	-6.88	100.00
160	8.24	38.51	-7.64	111.11	-7.64	100.00
165	4.77	43.30	-8.91	141.22	-8.91	100.00
170	3.23	46.02	-9.57	166.47	-9.57	100.00
175	2.86	47.17	-9.84	175.41	-9.84	100.00
180	2.57	47.73	-9.97	181.54	-9.97	100.00

# COMSEARCH

## Earth Station Data Sheet

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### Coordination Values


### BURBANK, CA

Licensee Name	Disney Channel		
Latitude (NAD 83)	34° 9' 13.0" N		
Longitude (NAD 83)	118° 20' 29.3" W		
Ground Elevation (AMSL)	164.59 m / 540.0 ft		
Antenna Centerline (AGL)	6.1 m / 20.0 ft		
Antenna Model	RSI 920 CS		
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)
185	2.66	47.37	-9.89	179.87	-9.89	100.00
190	2.98	46.26	-9.63	173.79	-9.63	100.00
195	3.19	44.74	-9.27	170.78	-9.27	100.00
200	2.93	43.18	-8.88	178.68	-8.88	100.00
205	3.02	41.45	-8.44	178.96	-8.44	100.00
210	2.93	40.33	-8.14	182.55	-8.14	100.00
215	3.27	39.28	-7.85	176.27	-7.85	100.00
220	4.02	38.34	-7.59	159.15	-7.59	100.00
225	3.17	39.53	-7.92	178.16	-7.92	100.00
230	2.62	40.93	-8.30	188.67	-8.30	100.00
235	1.95	42.86	-8.80	201.41	-8.80	100.00
240	2.06	44.49	-9.21	196.84	-9.21	100.00
245	1.64	46.94	-9.79	205.22	-9.79	101.86
250	1.62	49.35	-10.00	204.70	-10.00	101.62
255	1.08	52.40	-10.00	217.67	-10.00	115.42
260	0.52	55.62	-10.00	248.31	-10.00	138.24
265	0.27	58.80	-10.00	277.10	-10.00	161.87
270	0.39	61.92	-10.00	261.75	-10.00	148.88
275	0.29	65.29	-10.00	273.90	-10.00	159.11
280	0.30	68.71	-10.00	272.31	-10.00	157.74
285	0.34	72.22	-10.00	268.39	-10.00	154.42
290	0.38	75.80	-10.00	263.23	-10.00	150.11
295	0.37	79.44	-10.00	264.59	-10.00	151.23
300	0.36	83.12	-10.00	265.95	-10.00	152.37
305	0.40	86.83	-10.00	261.23	-10.00	148.45
310	0.40	90.54	-10.00	260.99	-10.00	148.25
315	0.43	94.26	-10.00	258.09	-10.00	145.89
320	0.46	97.97	-10.00	254.57	-10.00	143.06
325	0.49	101.65	-10.00	250.68	-10.00	139.99
330	0.53	105.29	-10.00	247.97	-10.00	137.97
335	0.55	108.88	-10.00	246.70	-10.00	137.00
340	0.56	112.39	-10.00	245.80	-10.00	136.31
345	0.56	115.81	-10.00	246.19	-10.00	136.60
350	0.59	117.74	-10.00	243.81	-10.00	134.80
355	1.55	113.12	-10.00	206.72	-10.00	103.52

## 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.



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

DATED: September 26, 2013