

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
STA for use of 9.1 meter C-band T/R earth station pending license grant

1. Applicant

Name:	TV Guide Networks, LLC	Phone Number:	323-856-4089
DBA Name:		Fax Number:	
Street:	1800 N Highland Avenue	E-Mail:	jack.carey@tvguide.com
City:	Los Angeles	State:	CA
Country:	USA	Zipcode:	90028
Attention:	Mr Jack Carey		

SES-STA-20120227-00220
E120038
Call Sign (or other identifier) Grant Date 3-7-12
Terms Dates From 3-7-12 To 3-7-12
Yes
Approver Paul E. Carey

2. Contact	
Name: Lawson Adams	Phone Number: 918-499-6255
Company: TV Guide Networks, LLC	Fax Number:
Street: 7140 S. Lewis Ave. 2nd Floor	E-Mail: Lawson.Adams@tvguide.com
City: Tulsa	State: OK
Country: USA	Zipcode: 74136 -
Attention:	Relationship: Same
(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)	
3. Reference File Number or Submission ID IB2012000652	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).	
<input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee	
<input type="radio"/> Other(please explain):	
4b. Fee Classification CGX - Fixed Satellite Transmit/Receive Earth Station	
5. Type Request	
<input checked="" type="radio"/> Use Prior to Grant <input type="radio"/> Change Station Location <input type="radio"/> Other	
6. Requested Use Prior Date 03/05/2012	
7. City Tulsa	
8. Latitude (dd mm ss.s h) 36 3 32.4 N	

9. State	OK
10. Longitude (dd mm ss.s h)	95 57 43.8 W
11. Please supply any need attachments. Attachment 1: Coordination Report	Attachment 2: Attachment 3:
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)	<div style="border: 1px solid black; padding: 5px;"> <p>STA for a 9.1 meter C-band T/R earth station pending license grant of FCC Submission ID</p> </div>
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	<p style="text-align: center;">Yes <input checked="" type="radio"/> No <input type="radio"/></p>
14. Name of Person Signing	Stacy Lifton
15. Title of Person Signing	EVP, Business and Legal Affairs
<p style="text-align: center;">WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).</p>	

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
TV Guide Networks, LLC
TULSA, OK
Satellite Earth Station

Prepared By:
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147
February 27, 2012

TABLE OF CONTENTS

1. CONCLUSIONS	3
2. SUMMARY OF RESULTS	4
3. SUPPLEMENTAL SHOWING.....	5
4. EARTH STATION COORDINATION DATA.....	6
5. CERTIFICATION.....	10

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 proposed transmit-receive earth station.

Company

Alltel Communications LLC – Oklahoma
BNSF Railway Company
Oklahoma Department of Transportation
Oklahoma City SMSA Limited Partnership
USCOC of Greater Oklahoma, LLC
USCOC of Oklahoma RSA #10, Inc.

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.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 02/17/2012.

Company

Alltel Communications LLC - Oklahoma
BNSF Railway Company
CHEROKEE CONNEX LLC
Cellular Network Partnership, A Ltd Prtn
Conterra Ultra Broadband, LLC
Cox Communications Kansas LLC
Dobson Cellular Systems LLC - OK Mkt
GRAND RIVER DAM AUTHORITY
KAMO Electric Cooperative Inc.
Kansas #15 Limited Partnership
NORTHEAST OKLAHOMA ELECTRIC COOPERATIVE
New Cingular Wireless PCS LLC - N Texas
New Cingular Wireless PCS, LLC - OK
OKLAHOMA STATE DEPT OF PUBLIC SAFETY
Oklahoma City SMSA Limited Partnership
Oklahoma Department of Transportation
Oklahoma Gas and Electric Company
Oklahoma RSA #4 South Partnership
Oklahoma RSA 3 Limited Partnership
PUBLIC SERVICE COMPANY OF OKLAHOMA
US Cellular Telephone of Greater Tulsa
USCOC of Greater Oklahoma, LLC
USCOC of Oklahoma RSA #10, Inc.

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: 02/20/2012
Job Number: 120217COMSGE05

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: UVCORP
Licensee Name: TV Guide Networks, LLC

Site Information

TULSA, OK
Venue Name:
Latitude (NAD 83): 36° 3' 32.4" N
Longitude (NAD 83): 95° 57' 43.8" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 189.59 m / 622.0 ft

Link Information

Satellite Type: Geostationary
Mode: TR - Transmit-Receive
Modulation: Digital
Satellite Arc: 60° W to 143° West Longitude
Azimuth Range: 129.1° to 241.3°
Corresponding Elevation Angles: 33.6° / 25.6°
Antenna Centerline (AGL): 5.49 m / 18.0 ft

Antenna Information

	Receive - FCC32	Transmit - FCC32	
Manufacturer	Andrew	Andrew	
Model	ESA91-46	ESA91-46	
Gain / Diameter	50.5 dBi / 9.1 m	53.9 dBi / 9.1 m	
3-dB / 15-dB Beamwidth	0.50° / 1.00°	0.30° / 0.60°	
Max Available RF Power (dBW/4 kHz)		-20.0	
		(dBW/MHz) 4.0	
Maximum EIRP (dBW/4 kHz)		33.9	
		(dBW/MHz) 57.9	
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)	16M5G7W - 36M0G7W / 3700.0 - 4200.0	16M5G7W - 36M0G7W / 5925.0 - 6425.0
Max Great Circle Coordination Distance	329.0 km / 204.4 mi	133.1 km / 82.7 mi
Precipitation Scatter Contour Radius	494.6 km / 307.3 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
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Coordination Values

TULSA, OK

Licensee Name	TV Guide Networks, LLC				
Latitude (NAD 83)	36° 3' 32.4" N				
Longitude (NAD 83)	95° 57' 43.8" W				
Ground Elevation (AMSL)	189.59 m / 622.0 ft				
Antenna Centerline (AGL)	5.49 m / 18.0 ft				
Antenna Model	Andrew 9.1 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	-20.0 (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	0.28	115.76	-10.00	275.23	-10.00	110.58
5	0.36	117.91	-10.00	266.21	-10.00	104.63
10	0.39	113.96	-10.00	262.37	-10.00	102.06
15	0.31	109.91	-10.00	272.09	-10.00	108.52
20	0.29	105.83	-10.00	273.74	-10.00	109.61
25	0.39	101.72	-10.00	261.72	-10.00	101.63
30	0.60	97.58	-10.00	243.60	-10.00	100.00
35	0.52	93.39	-10.00	248.73	-10.00	100.00
40	0.58	89.21	-10.00	244.40	-10.00	100.00
45	1.08	84.99	-10.00	217.96	-10.00	100.00
50	1.59	80.74	-10.00	205.51	-10.00	100.00
55	1.71	76.52	-10.00	202.33	-10.00	100.00
60	1.64	72.35	-10.00	204.16	-10.00	100.00
65	1.76	68.19	-10.00	200.99	-10.00	100.00
70	2.00	64.04	-10.00	194.50	-10.00	100.00
75	1.93	60.04	-10.00	196.52	-10.00	100.00
80	1.71	56.20	-10.00	202.25	-10.00	100.00
85	1.62	52.46	-10.00	204.81	-10.00	100.00
90	1.46	48.90	-10.00	206.59	-10.00	100.00
95	1.87	45.22	-9.38	200.83	-9.38	100.00
100	1.63	42.16	-8.62	208.25	-8.62	100.00
105	1.34	39.48	-7.91	220.51	-7.91	100.00
110	1.43	36.89	-7.17	221.51	-7.17	100.00
115	1.31	34.94	-6.58	228.31	-6.58	100.00
120	1.29	33.46	-6.11	231.71	-6.11	100.00
125	0.73	33.12	-6.00	258.82	-6.00	100.00
130	0.67	32.98	-5.96	263.25	-5.96	100.00
135	0.41	33.70	-6.19	284.37	-6.19	110.32
140	0.54	34.66	-6.50	268.69	-6.50	100.50
145	0.33	36.52	-7.06	287.59	-7.06	113.88
150	0.28	38.74	-7.70	290.54	-7.70	116.83
155	0.23	41.29	-8.40	291.91	-8.40	118.81
160	0.00	43.75	-9.02	291.57	-9.02	119.58
165	0.00	45.61	-9.48	288.63	-9.48	118.41
170	0.00	47.00	-9.80	286.54	-9.80	117.57
175	0.00	47.86	-10.00	285.28	-10.00	117.07
180	0.00	48.15	-10.00	285.28	-10.00	117.07
185	0.24	47.62	-9.95	280.66	-9.95	114.02

COMSEARCH

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Coordination Values

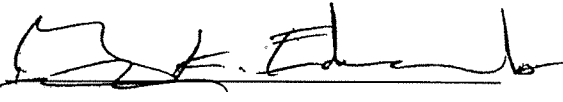
TULSA, OK

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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					-20.0 (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	0.00	47.00	-9.80	286.54	-9.80	117.57
195	0.00	45.61	-9.48	288.63	-9.48	118.41
200	0.00	43.75	-9.02	291.57	-9.02	119.58
205	0.00	41.47	-8.44	295.38	-8.44	121.09
210	0.00	38.84	-7.73	300.12	-7.73	122.95
215	0.00	35.92	-6.88	305.88	-6.88	125.17
220	0.00	32.81	-5.90	313.32	-5.90	127.77
225	0.00	30.03	-4.94	320.12	-4.94	130.33
230	0.00	27.81	-4.10	326.09	-4.10	132.56
235	0.22	26.09	-3.41	329.01	-3.41	133.12
240	0.27	25.36	-3.10	324.50	-3.10	129.76
245	0.29	25.56	-3.19	321.37	-3.19	127.97
250	0.35	26.62	-3.63	309.33	-3.63	121.66
255	0.41	28.46	-4.36	295.87	-4.36	114.47
260	0.58	30.89	-5.24	274.09	-5.24	101.90
265	0.75	33.82	-6.23	256.08	-6.23	100.00
270	0.79	37.25	-7.28	247.25	-7.28	100.00
275	0.78	40.99	-8.32	241.89	-8.32	100.00
280	0.75	44.94	-9.31	237.93	-9.31	100.00
285	0.76	49.02	-10.00	233.68	-10.00	100.00
290	1.57	52.96	-10.00	206.19	-10.00	100.00
295	1.59	57.29	-10.00	205.49	-10.00	100.00
300	1.35	61.75	-10.00	209.84	-10.00	100.00
305	1.01	66.27	-10.00	219.98	-10.00	100.00
310	0.72	70.79	-10.00	236.10	-10.00	100.00
315	0.43	75.31	-10.00	257.44	-10.00	100.00
320	0.20	79.83	-10.00	285.06	-10.00	116.93
325	0.00	84.35	-10.00	285.28	-10.00	117.07
330	0.00	88.86	-10.00	285.28	-10.00	117.07
335	0.00	93.37	-10.00	285.28	-10.00	117.07
340	0.00	97.87	-10.00	285.28	-10.00	117.07
345	0.00	102.36	-10.00	285.28	-10.00	117.07
350	0.00	106.84	-10.00	285.28	-10.00	117.07
355	0.00	111.28	-10.00	285.28	-10.00	117.07

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.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
19700 Janelia Farm Boulevard
Ashburn, VA 20147

DATED: February 27, 2012