



**COMSEARCH**<sup>®</sup>

A CommScope Company

January 05, 2017

Re: KMBC Hearst Television Inc.  
KANSAS CITY, MO  
C-Band Receive Only Earth Station  
Previous Job Number: 160928COMSGE08  
Job Number: 170105COMSGE01

\*\*\*\*\* Revision Notice \*\*\*\*\*

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 revised coordination data on behalf of KMBC Hearst Television Inc. for modifications to their proposed C-Band Receive Only Earth Station in KANSAS CITY, MO.

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). Please update your database with the attached information.

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 were not previously reported, please contact us by February 09, 2017.

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: 01/05/2017  
Job Number: 170105COMSGE01

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**Administrative Information**

Status ENGINEER PROPOSAL  
Call Sign KANSAS C  
Licensee Code KMBCTV  
Licensee Name KMBC Hearst Television Inc.

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**Site Information**

**KANSAS CITY, MO**  
Venue Name TRANSMITTER  
Latitude (NAD 83) 39° 5' 3.1" N  
Longitude (NAD 83) 94° 30' 58.2" W  
Climate Zone A  
Rain Zone 2  
Ground Elevation (AMSL) 285.03 m / 935.1 ft

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**Link Information**

Satellite Type Geostationary  
Mode RO - Receive-Only  
Modulation Digital  
Satellite Arc 60° W to 143° West Longitude  
Azimuth Range 132.5° to 240.8°  
Corresponding Elevation Angles 32.4° / 23.0°  
Antenna Centerline (AGL) 2.74 m / 9.0 ft

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**Antenna Information**

**Receive - A40451**  
Manufacturer ANDREW CORPORATION  
Model ESA45-46A  
Gain / Diameter 43.9 dBi / 4.5 m  
3-dB / 15-dB Beamwidth 1.20° / 2.40°

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

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**Frequency Information**

**Receive 4.0 GHz**  
Emission / Frequency Range (MHz) 36M0G7W / 3700.0 - 4200.0

Max Great Circle Coordination Distance 311.3 km / 193.4 mi  
Precipitation Scatter Contour Radius 498.6 km / 309.8 mi

<b>Coordination Values</b>	<b>KANSAS CITY, MO</b>	
Licensee Name	KMBC Hearst Television Inc.	
Latitude (NAD 83)	39° 5' 3.1" N	
Longitude (NAD 83)	94° 30' 58.2" W	
Ground Elevation (AMSL)	285.03 m / 935.1 ft	
Antenna Centerline (AGL)	2.74 m / 9.0 ft	
Antenna Model	Andrew Corporation ESA45-46A	
Antenna Mode	Receive 4.0 GHz	
Interference Objectives: Long Term	-156.0 dBW/MHz	20%
Short Term	-146.0 dBW/MHz	0.01%

Receive 4.0 GHz				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.21	116.71	-13.13	265.35
5	0.00	120.93	-15.29	253.89
10	0.00	116.98	-13.29	265.22
15	0.00	112.95	-11.28	277.26
20	0.00	108.86	-9.19	290.50
25	0.00	104.72	-6.10	311.30
30	0.00	100.54	-6.10	311.30
35	0.00	96.34	-6.10	311.30
40	0.00	92.12	-6.10	311.30
45	0.00	87.90	-6.10	311.30
50	0.00	83.69	-6.10	311.30
55	0.00	79.49	-6.10	311.30
60	0.00	75.31	-6.10	311.30
65	0.00	71.17	-6.10	311.30
70	0.00	67.07	-6.10	311.30
75	0.00	63.04	-6.10	311.30
80	0.00	59.09	-6.10	311.30
85	0.00	55.24	-6.10	311.30
90	0.00	51.53	-6.10	311.30
95	0.00	47.97	-6.10	311.30
100	0.00	44.62	-6.10	311.30
105	0.00	41.53	-6.10	311.30
110	0.00	38.76	-6.10	311.30
115	0.00	36.40	-6.10	311.30
120	0.23	34.30	-6.10	307.04
125	0.24	32.96	-6.10	305.82
130	0.21	32.31	-6.02	310.79
135	0.00	32.51	-6.10	311.30
140	0.00	33.19	-6.10	311.30
145	0.00	34.50	-6.10	311.30
150	0.00	36.38	-7.38	302.52
155	0.00	38.68	-7.84	299.42
160	0.00	40.77	-8.25	296.63
165	0.00	42.46	-8.59	294.39
170	0.00	43.72	-8.84	292.74
175	0.00	44.49	-9.00	291.73
180	0.00	44.75	-9.05	291.39
185	0.00	44.49	-9.00	291.73

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Receive 4.0 GHz				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	43.72	-8.84	292.74
195	0.00	42.46	-8.59	294.39
200	0.00	40.77	-8.25	296.63
205	0.42	38.33	-7.77	272.33
210	0.27	36.04	-7.31	294.24
215	0.39	33.25	-6.40	285.12
220	0.55	30.19	-5.18	276.67
225	1.06	26.79	-4.46	249.49
230	1.31	24.09	-3.74	245.15
235	1.17	22.52	-3.11	254.04
240	1.25	21.73	-2.79	253.41
245	1.42	21.92	-2.87	246.60
250	1.85	22.93	-3.27	229.92
255	1.95	25.16	-4.13	222.09
260	1.78	28.27	-4.75	223.82
265	1.73	31.74	-5.80	219.54
270	1.65	35.56	-6.10	220.48
275	1.50	39.65	-6.10	225.09
280	1.51	43.81	-6.10	224.58
285	1.29	48.19	-6.10	231.74
290	1.05	52.66	-6.10	240.00
295	0.66	57.21	-6.10	263.25
300	0.00	61.84	-6.10	311.30
305	0.00	66.35	-6.10	311.30
310	0.00	70.89	-6.10	311.30
315	0.00	75.45	-6.10	311.30
320	0.00	80.04	-6.10	311.30
325	0.00	84.63	-6.10	311.30
330	0.00	89.23	-6.10	311.30
335	0.00	93.84	-6.10	311.30
340	0.00	98.44	-6.10	311.30
345	0.00	103.03	-6.10	311.30
350	0.00	107.60	-8.18	297.13
355	0.00	112.15	-10.96	279.26