

**Proposed Construction Permit Modification Application**

The proposed minor construction permit modification application specifies a correction in the antenna COR AGL height and a decrease in the ERP as is indicated below:

	Licensed	Construction Permit	CP Modification
Channel / Class	215 D	215 D	215 D
Geographical Coordinates	39 01 49 / 95 45 12	39 01 49 / 95 45 12	39 01 49 / 95 45 12
ASRN	1012290	1012290	1012290
Site AMSL	306.9 m	306.9 m	306.9 m
Tower AGL	75.9 m	75.9 m	75.9 m
COR AGL	76 m	76 m	72 m
COR AMSL	383 m	383 m	379 m
HAAT	80 m	76 m	78 m
ERP	0.010 kW (H&V, non-DA)	0.039 kW (H&V, non-DA)	0.035 kW (H&V, non-DA)

The below listed pages of this exhibit contains information as indicated.

Page 2            Tabulation of HAAT / ERP / distance to 60 dBu contour  
Page 3            Licensed & Proposed 60 dBu contour map  
Page 4 - 5        Allocation study

Tabulation of HAAT / ERP / distance to 60 dBu contour

CH 215      39 01 49 / 95 45 12      0.035 kW ERP non-DA      379 m COR AMSL      78 m HAAT

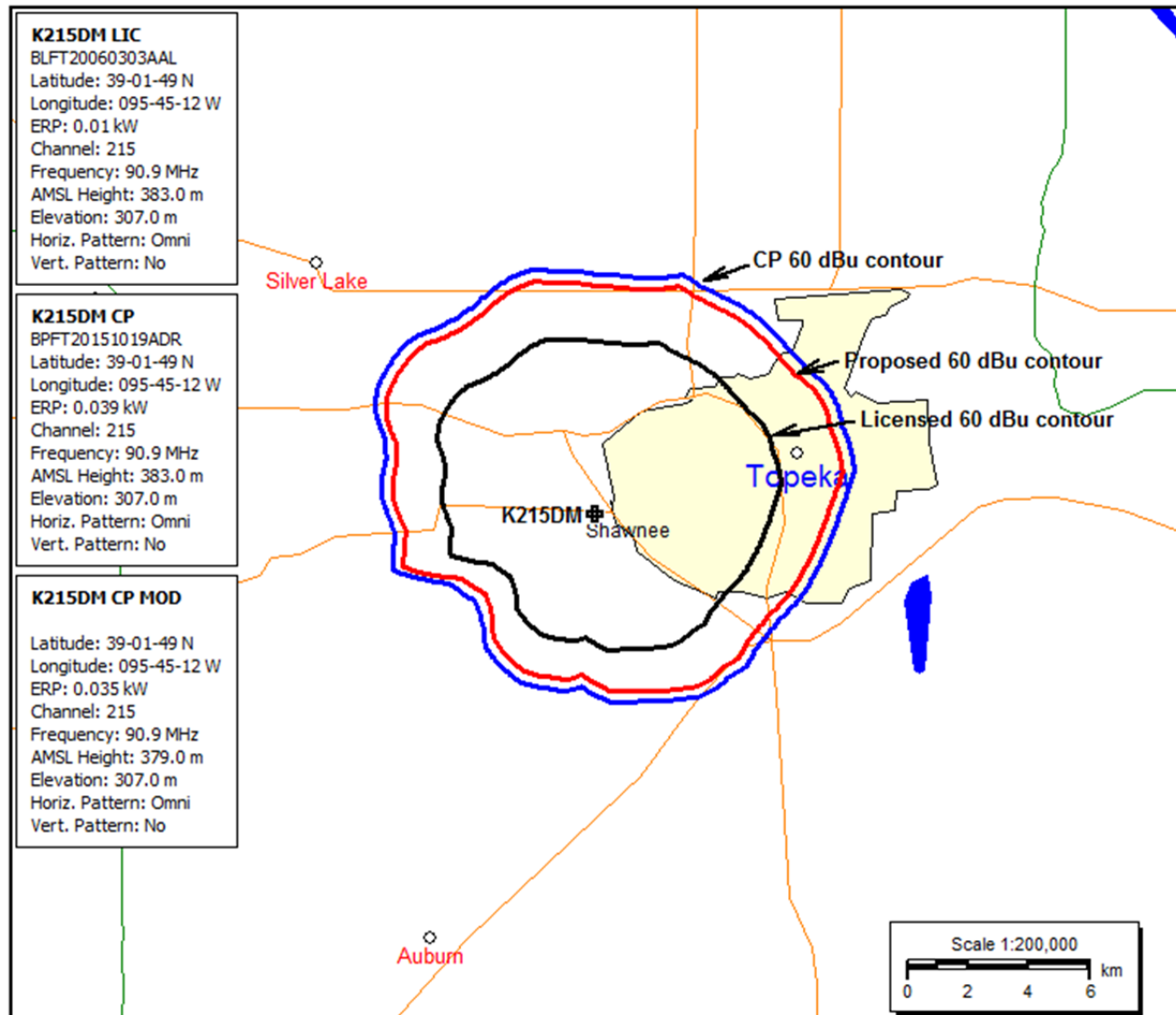
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	286.3	92.7	0.0350	-14.56	1.000	7.61
010	285.3	93.7	0.0350	-14.56	1.000	7.65
020	275.8	103.2	0.0350	-14.56	1.000	8.05
030	278.5	100.5	0.0350	-14.56	1.000	7.94
040	276.5	102.5	0.0350	-14.56	1.000	8.02
050	278.4	100.6	0.0350	-14.56	1.000	7.94
060	269.5	109.5	0.0350	-14.56	1.000	8.31
070	269.8	109.2	0.0350	-14.56	1.000	8.30
080	271.9	107.1	0.0350	-14.56	1.000	8.21
090	284.5	94.5	0.0350	-14.56	1.000	7.69
100	292.6	86.4	0.0350	-14.56	1.000	7.33
110	299.5	79.5	0.0350	-14.56	1.000	7.02
120	307.4	71.6	0.0350	-14.56	1.000	6.67
130	311.0	68.0	0.0350	-14.56	1.000	6.50
140	310.8	68.2	0.0350	-14.56	1.000	6.50
150	310.6	68.4	0.0350	-14.56	1.000	6.52
160	319.1	59.9	0.0350	-14.56	1.000	6.13
170	324.7	54.3	0.0350	-14.56	1.000	5.85
180	331.5	47.5	0.0350	-14.56	1.000	5.47
190	330.5	48.5	0.0350	-14.56	1.000	5.53
200	329.4	49.6	0.0350	-14.56	1.000	5.59
210	332.3	46.7	0.0350	-14.56	1.000	5.42
220	335.9	43.1	0.0350	-14.56	1.000	5.19
230	345.7	33.3	0.0350	-14.56	1.000	4.51
240	342.9	36.1	0.0350	-14.56	1.000	4.71
250	325.2	53.8	0.0350	-14.56	1.000	5.83
260	310.6	68.4	0.0350	-14.56	1.000	6.51
270	310.6	68.4	0.0350	-14.56	1.000	6.51
280	304.0	75.0	0.0350	-14.56	1.000	6.82
290	296.3	82.7	0.0350	-14.56	1.000	7.17
300	276.4	102.6	0.0350	-14.56	1.000	8.02
310	274.6	104.4	0.0350	-14.56	1.000	8.10
320	284.2	94.8	0.0350	-14.56	1.000	7.70
330	284.6	94.4	0.0350	-14.56	1.000	7.68
340	279.9	99.1	0.0350	-14.56	1.000	7.88
350	281.6	97.4	0.0350	-14.56	1.000	7.81

FCC 30 SEC

(yellow highlighted values establish average HAAT)

60 dBu contour

The proposed construction permit modification 60 dBu contour will continue to have overlap with the licensed and construction permit 60 dBu contours.



Allocation Study

CH 215      39 01 49 / 95 45 12      0.035 kW ERP non-DA      379 m COR AMSL      78 m HAAT

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
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Reference station:

215D Hoyt	K215DM	LIC KS	0.0 0.0	0.00 BLFT20060303AAL	39 01 49.0 95 45 12.0	0.010 82	18.9 383	5.8 Educational Media Foundation		
215D Hoyt	K215DM	CP KS	0.0 0.0	0.00 BPFT20151019ADR	39 01 49.0 95 45 12.0	0.039	26.8 383	8.0 Educational Media Foundation		

1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> adjacent channel relationships:

212C2 Topeka	KBUZ	LIC KS	263.9 83.7	25.79 BLED19930927KB	39 00 19.0 96 02 58.0	11.000 256	5.0 603	49.6 American Family Association	14.0	-24.3
213A Ottawa	KRBW	LIC KS	139.4 319.7	65.15 BLED19981112KC	38 35 04.0 95 15 56.0	0.430 57	1.5 344	10.7 American Family Association	57.2	54.0
214D Manhattan	K214CZ	LIC KS	287.2 106.6	81.76 BLFT20000911AEO	39 14 38.0 96 39 30.0	0.140 94	19.3 459	12.9 Pensacola Christian College	55.4	58.8
214A Emporia	KPOR	LIC KS	206.8 26.5	72.47 BMLD20130827AAE	38 26 50.0 96 07 42.0	2.000 100	29.4 451	20.0 Family Stations, Inc.	37.6	44.8
214A Lawrence	KJHK	LIC KS	101.3 281.6	42.74 BLED20060810AFJ	38 57 14.0 95 16 11.0	2.300 85	26.1 361	17.8 The University Of Kansas	9.3	14.6
215C1 Warrensburg	KTBG	LIC MO	92.7 273.7	142.43 BLED20131211AJM	38 57 29.8 94 06 42.7	100.000 167	133.4 435	51.4 Public Television 19, Inc.	1.5	65.7
216L1 Lawrence	KCIU-LP	LIC KS	100.6 280.9	41.94 BLL20141212AAS	38 57 37.0 95 16 39.0	0.057 39			27.7	26.7
216C3 St. Joseph	KSJI	LIC MO	46.3 226.9	114.00 BLED20111206AFB	39 44 03.0 94 47 24.0	14.000 132	56.1 411	36.9 Good News Ministries, Inc.	50.0	65.9
217A Olsburg	KANV	LIC KS	269.4 88.7	99.19 BLED20030117ABS	39 00 55.0 96 53 55.0	6.000 100	2.8 462	28.4 The University Of Kansas	89.9	70.4
218C1 Lawrence	KANU	LIC KS	101.3 281.6	42.74 BLED19920721KA	38 57 14.0 95 16 11.0	100.000 213	8.0 491	62.9 University Of Kansas	27.4	-20.6

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Terrain database is FCC 30 SEC

Contour distances are on direct line to and from reference station.

**Allocation Study**

K215DM is located within the 60 dBu contour of the following third adjacent stations:

KBUZ (LIC), CH 212 C2, Topeka, KS

KBUZ signal strength at the K215DM site	73.4 dBu
K215DM corresponding interference contour	113.4 dBu
Distance to K215DM interference contour	89.2 meters

KANU (LIC), CH 218 C1, Lawrence, KS

KANU signal strength at the K215DM site	69.8 dBu
K215DM corresponding interference contour	109.8 dBu
Distance to K215DM interference contour	134.7 meters

For purposes of this study, the interference contour to KANU is being used as the worst case situation. The below chart demonstrates that utilizing the current licensed antenna the interference contour will not reach the ground, therefore, a waiver of Section 74.1204(d) is respectfully requested based on the showing of no population within the area of predicted interference.

ERP	0.035 kW
Antenna COR AGL height	72 meters
Translator IX contour	109.8
Antenna	SWR FMEC/1

Depression Angle from Horizon	Antenna Relative Field	ERP (kw) from the Antenna RF	IX Contour dist. (m)	IX Contour Height above ground (m)
0	1.000	0.0350	134.2870	72.000
5	0.997	0.0348	133.8842	60.331
10	0.986	0.0340	132.4070	49.008
15	0.969	0.0329	130.1241	38.321
20	0.946	0.0313	127.0355	28.551
25	0.916	0.0294	123.0069	20.015
30	0.879	0.0270	118.0383	12.981
35	0.837	0.0245	112.3982	7.531
40	0.789	0.0218	105.9525	3.895
45	0.736	0.0190	98.8352	2.113
50	0.679	0.0161	91.1809	2.151
55	0.616	0.0133	82.7208	4.239
60	0.550	0.0106	73.8579	8.037
65	0.480	0.0081	64.4578	13.581
70	0.408	0.0058	54.7891	20.515
75	0.333	0.0039	44.7176	28.806
80	0.256	0.0023	34.3775	38.145
85	0.178	0.0011	23.9031	48.188
90	0.100	0.0004	13.4287	58.571