

**Proposed Minor Change Application**

The proposed minor change application of K215DM specifies an increase in ERP as is indicated below:

	Licensed	Proposed Minor Change
Channel / Class	215 D	215 D
Geographical Coordinates	39 01 49 / 95 45 12	39 01 49 / 95 45 12
ASRN	1012290	1012290
Site AMSL	306.9 m	306.9 m
Tower AGL	75.9 m	75.9 m
COR AGL	76 m	76 m
COR AMSL	383 m	383 m
HAAT	80 m	80 m
ERP	0.010 kW (H&V, non-DA)	0.039 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**

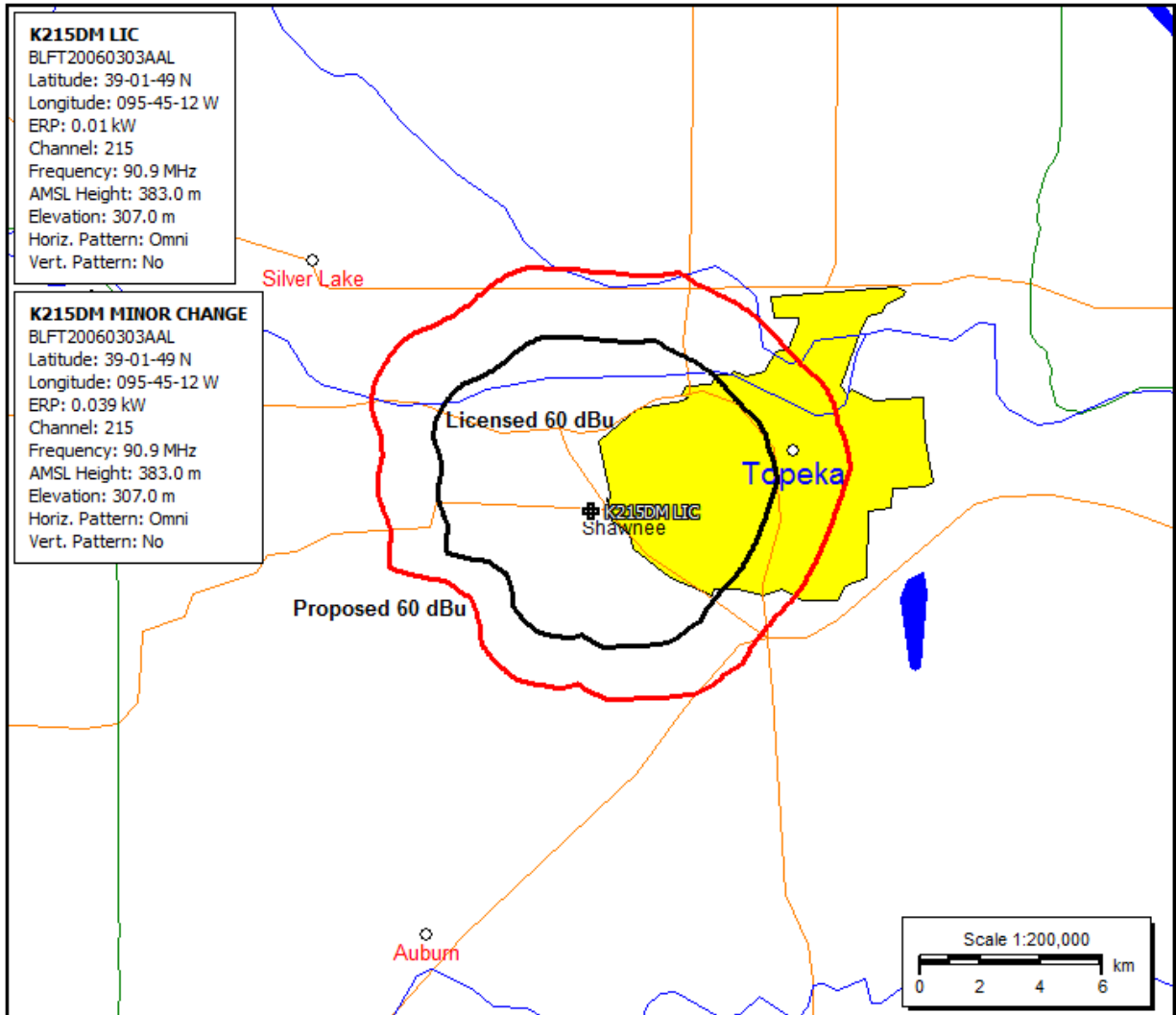
CH 215      39 01 49 / 95 45 12      0.039 kW ERP non-DA      383 m COR AMSL      80 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	286.3	96.7	0.0390	-14.09	1.000	7.99
010	285.3	97.7	0.0390	-14.09	1.000	8.04
020	275.8	107.2	0.0390	-14.09	1.000	8.45
030	278.5	104.5	0.0390	-14.09	1.000	8.34
040	276.5	106.5	0.0390	-14.09	1.000	8.42
050	278.4	104.6	0.0390	-14.09	1.000	8.34
060	269.5	113.5	0.0390	-14.09	1.000	8.70
070	269.8	113.2	0.0390	-14.09	1.000	8.68
080	271.9	111.1	0.0390	-14.09	1.000	8.61
090	284.5	98.5	0.0390	-14.09	1.000	8.08
100	292.6	90.4	0.0390	-14.09	1.000	7.71
110	299.5	83.5	0.0390	-14.09	1.000	7.39
120	307.4	75.6	0.0390	-14.09	1.000	7.03
130	311.0	72.0	0.0390	-14.09	1.000	6.86
140	310.8	72.2	0.0390	-14.09	1.000	6.87
150	310.6	72.4	0.0390	-14.09	1.000	6.88
160	319.1	63.9	0.0390	-14.09	1.000	6.48
170	324.7	58.3	0.0390	-14.09	1.000	6.21
180	331.5	51.5	0.0390	-14.09	1.000	5.85
190	330.5	52.5	0.0390	-14.09	1.000	5.90
200	329.4	53.6	0.0390	-14.09	1.000	5.96
210	332.3	50.7	0.0390	-14.09	1.000	5.80
220	335.9	47.1	0.0390	-14.09	1.000	5.59
230	345.7	37.3	0.0390	-14.09	1.000	4.93
240	342.9	40.1	0.0390	-14.09	1.000	5.13
250	325.2	57.8	0.0390	-14.09	1.000	6.19
260	310.6	72.4	0.0390	-14.09	1.000	6.88
270	310.6	72.4	0.0390	-14.09	1.000	6.88
280	304.0	79.0	0.0390	-14.09	1.000	7.19
290	296.3	86.7	0.0390	-14.09	1.000	7.54
300	276.4	106.6	0.0390	-14.09	1.000	8.42
310	274.6	108.4	0.0390	-14.09	1.000	8.50
320	284.2	98.8	0.0390	-14.09	1.000	8.09
330	284.6	98.4	0.0390	-14.09	1.000	8.07
340	279.9	103.1	0.0390	-14.09	1.000	8.28
350	281.6	101.4	0.0390	-14.09	1.000	8.21

(yellow highlighted values establish average HAAT)

### Licensed & Proposed 60 dBu contour

The proposed 60 dBu contour will continue to have overlap with the licensed 60 dBu contour.



Allocation Study

CH 215      39 01 49 / 95 45 12      0.039 kW ERP non-DA      383 m COR AMSL      80 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	-26.9	-32.5
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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	56.8	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	55.1	58.3
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.	37.2	44.2
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	9.0	14.1
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.	1.1	64.4
216L1 Lawrence	KCIU-LP	LIC KS	100.6 280.9	41.94 BLL20141212AAS	38 57 37.0 95 16 39.0	0.057 39	318	27.3 Lawrence Chinese Evangelic	26.2	
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.	49.6	65.4
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	89.6	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	27.1	-20.6

Terrain database is NGDC 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	94.1 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	142.2 meters

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 (kw):** 0.039  
**Height of Antenna above Ground (m):** 76  
**Translator's IX Contour:** 109.8  
**Antenna Type:** SWR FMEC/1

<b>Depression Angle</b>	<b>Antenna</b>	<b>ERP (kw)</b>	<b>Dist. To IX Contour</b>	<b>Height IX Contour Above</b>
<u>from Horizon</u>	<u>Relative Field</u>	<u>from the Antenna</u>	<u>(m)</u>	<u>Ground (m)</u>
0	1.000	0.0390	141.7530	76.000
5	0.997	0.0388	141.3278	63.682
10	0.986	0.0379	139.7685	51.729
15	0.969	0.0366	137.3587	40.449
20	0.946	0.0349	134.0984	30.136
25	0.916	0.0327	129.8458	21.125
30	0.879	0.0301	124.6009	13.700
35	0.837	0.0273	118.6473	7.947
40	0.789	0.0243	111.8431	4.109
45	0.736	0.0211	104.3302	2.227
50	0.679	0.0180	96.2503	2.268
55	0.616	0.0148	87.3199	4.472
60	0.550	0.0118	77.9642	8.481
65	0.480	0.0090	68.0414	14.334
70	0.408	0.0065	57.8352	21.653
75	0.333	0.0043	47.2038	30.405
80	0.256	0.0026	36.2888	40.263
85	0.178	0.0012	25.2320	50.864
90	0.100	0.0004	14.1753	61.825