

Proposed Modification

The proposed modification specifies a change in the antenna height as indicated below:

	Construction Permit	Proposed
Channel	240	240
Class	D	D
ASRN	1226541	1226541
Geographical Coordinates	36 07 30 / 95 53 03	36 07 30 / 95 53 03
Site AMSL	204 m	204 m
Tower AGL	85 m	85 m
COR AGL	63 m	78 m
COR AMSL	267 m	282 m
HAAT	59 m	74 m
ERP	.250 kW non-da H&V	.250 kW non-da H&V

The proposed 1 mV/m contour will completely encompass the existing construction permit 1 mV/m contour.

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

Page 2	Tabulation of HAAT / ERP / distance to 60 dBu contour
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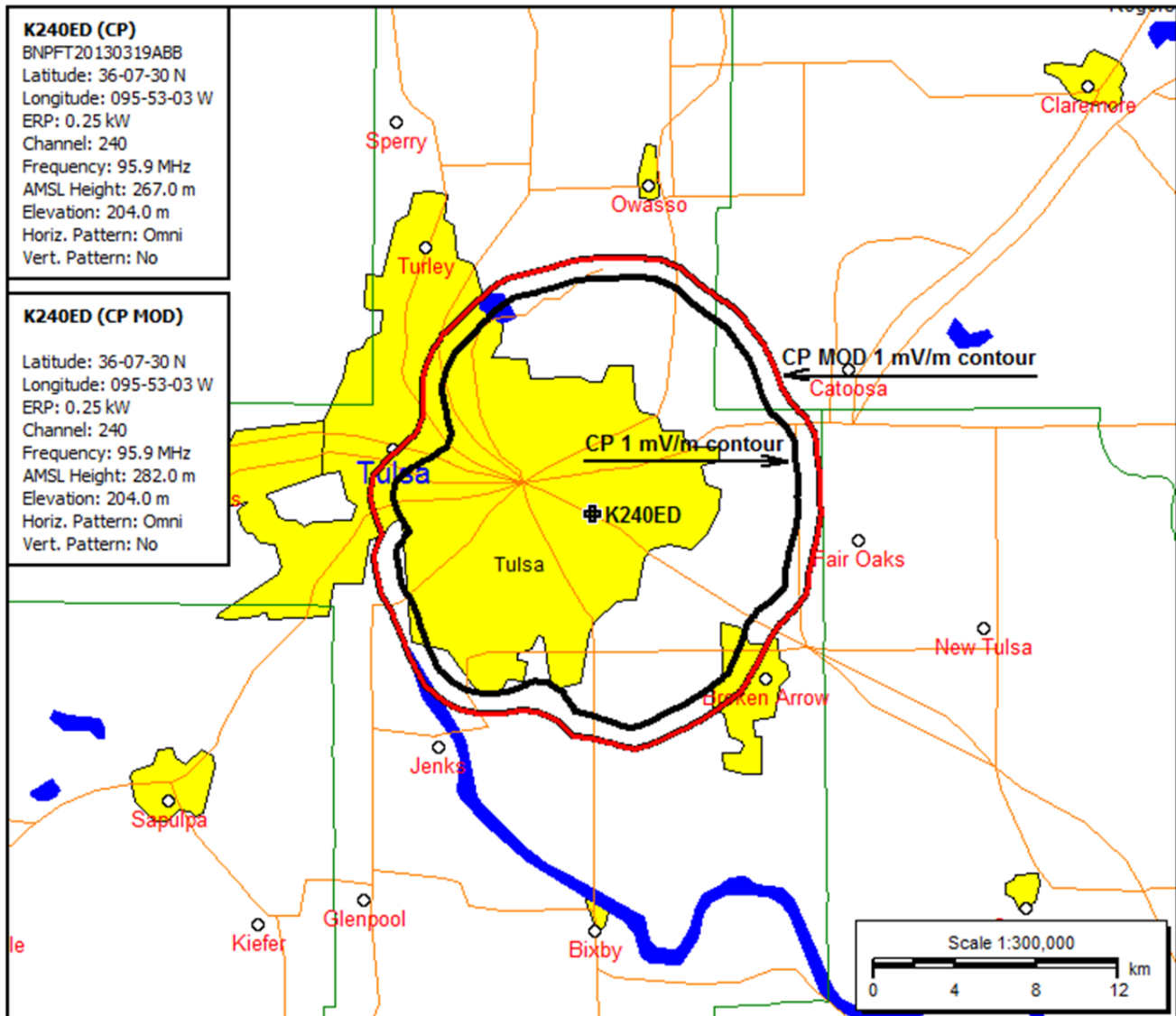
Tabulation of HAAT / ERP / distance to 60 dBu contour

CH 240 36 07 30 / 95 53 03 .250 kW ERP non-da 282 m COR AMSL 74 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	187.6	94.4	0.2500	-6.02	1.000	12.51
010	184.4	97.6	0.2500	-6.02	1.000	12.72
020	183.9	98.1	0.2500	-6.02	1.000	12.75
030	192.1	89.9	0.2500	-6.02	1.000	12.22
040	196.5	85.5	0.2500	-6.02	1.000	11.93
050	204.1	77.9	0.2500	-6.02	1.000	11.43
060	209.4	72.6	0.2500	-6.02	1.000	11.07
070	203.1	78.9	0.2500	-6.02	1.000	11.50
080	207.6	74.4	0.2500	-6.02	1.000	11.20
090	209.4	72.6	0.2500	-6.02	1.000	11.07
100	212.4	69.6	0.2500	-6.02	1.000	10.86
110	209.4	72.6	0.2500	-6.02	1.000	11.07
120	217.1	64.9	0.2500	-6.02	1.000	10.53
130	215.1	66.9	0.2500	-6.02	1.000	10.67
140	207.8	74.2	0.2500	-6.02	1.000	11.18
150	206.9	75.1	0.2500	-6.02	1.000	11.24
160	205.7	76.3	0.2500	-6.02	1.000	11.33
170	201.8	80.2	0.2500	-6.02	1.000	11.59
180	211.9	70.1	0.2500	-6.02	1.000	10.90
190	222.1	59.9	0.2500	-6.02	1.000	10.17
200	223.0	59.0	0.2500	-6.02	1.000	10.10
210	208.0	74.0	0.2500	-6.02	1.000	11.17
220	200.8	81.2	0.2500	-6.02	1.000	11.65
230	204.2	77.8	0.2500	-6.02	1.000	11.43
240	210.5	71.5	0.2500	-6.02	1.000	11.00
250	209.8	72.2	0.2500	-6.02	1.000	11.04
260	211.8	70.2	0.2500	-6.02	1.000	10.91
270	215.1	66.9	0.2500	-6.02	1.000	10.67
280	211.6	70.4	0.2500	-6.02	1.000	10.92
290	225.4	56.6	0.2500	-6.02	1.000	9.90
300	228.5	53.5	0.2500	-6.02	1.000	9.61
310	213.0	69.0	0.2500	-6.02	1.000	10.82
320	203.7	78.3	0.2500	-6.02	1.000	11.46
330	198.5	83.5	0.2500	-6.02	1.000	11.81
340	191.2	90.8	0.2500	-6.02	1.000	12.28
350	191.6	90.4	0.2500	-6.02	1.000	12.25

(yellow highlighted values establish average HAAT)

1 mV/m contour map



Allocation Study

CH 240 36 07 30 / 95 53 03 .250 kW ERP non-da 282 m COR AMSL 74 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:

240D	K240ED	CP	0.0	0.00	36 07 30.0	0.250	39.5	11.5	-52.0*<	-54.6*<
Tulsa		OK	0.0	BNPFT20130319ABB	95 53 03.0		267	Educational Media Foundation		

1st, 2nd, & 3rd adjacent channel relationships:

238C	KWEN	LIC	292.4	20.80	36 11 46.0	100.000	12.2	84.0	-1.1<	-64.4*<
Tulsa		OK	112.3	BLH20080826AAF	96 05 53.0	453	687	Cox Radio, Inc.		
240C3	KSOK-FM	LIC	318.7	141.42	37 04 32.0	15.200	106.5	38.4	23.5	64.1
Winfield		KS	138.0	BLH20041027AEE	96 56 13.0	128	481	Cowley County Broadcasting		
240C2	KKBD	LIC	126.2	134.15	35 24 26.0	30.000	132.4	52.5	-8.8<	46.0
Sallisaw		OK	306.9	BLH19930326KB	94 41 25.0	190	365	Capstar Tx Llc		
241C0	KXXY-FM	LIC	248.4	156.34	35 35 52.0	100.000	118.4	79.8	26.9	60.8
Oklahoma City		OK	67.5	BLH20000105AAO	97 29 22.0	372	718	Clear Channel Broadcasting		
241C2	KITO-FM	LIC	56.2	92.20	36 34 56.0	50.000	77.7	51.9	3.4	24.5
Vinita		OK	236.8	BLH19890508KD	95 01 35.0	150	376	Kxojo, Inc.		
243C	KRAV-FM	LIC	292.4	20.80	36 11 46.0	100.000	12.2	84.0	-1.1<	-64.4*<
Tulsa		OK	112.3	BLH20080826AAG	96 05 53.0	453	687	Cox Radio, Inc.		

I.F. relationships:

293D	K293AP	LIC	265.0	12.02	36 06 56.0	0.205	0.0	0.0	10.0R	2.0M
Sand Springs		OK	84.9	BLFT20050118AKR	96 01 02.0	81	300	Educational Media Foundation		

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station.
 Reference Zone= West Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.
 < = Station meets FCC minimum distance spacing for its class.
 < = Contour Overlap

Allocation Study

The proposed facility will be located within the 60 dBu contour of the following stations:

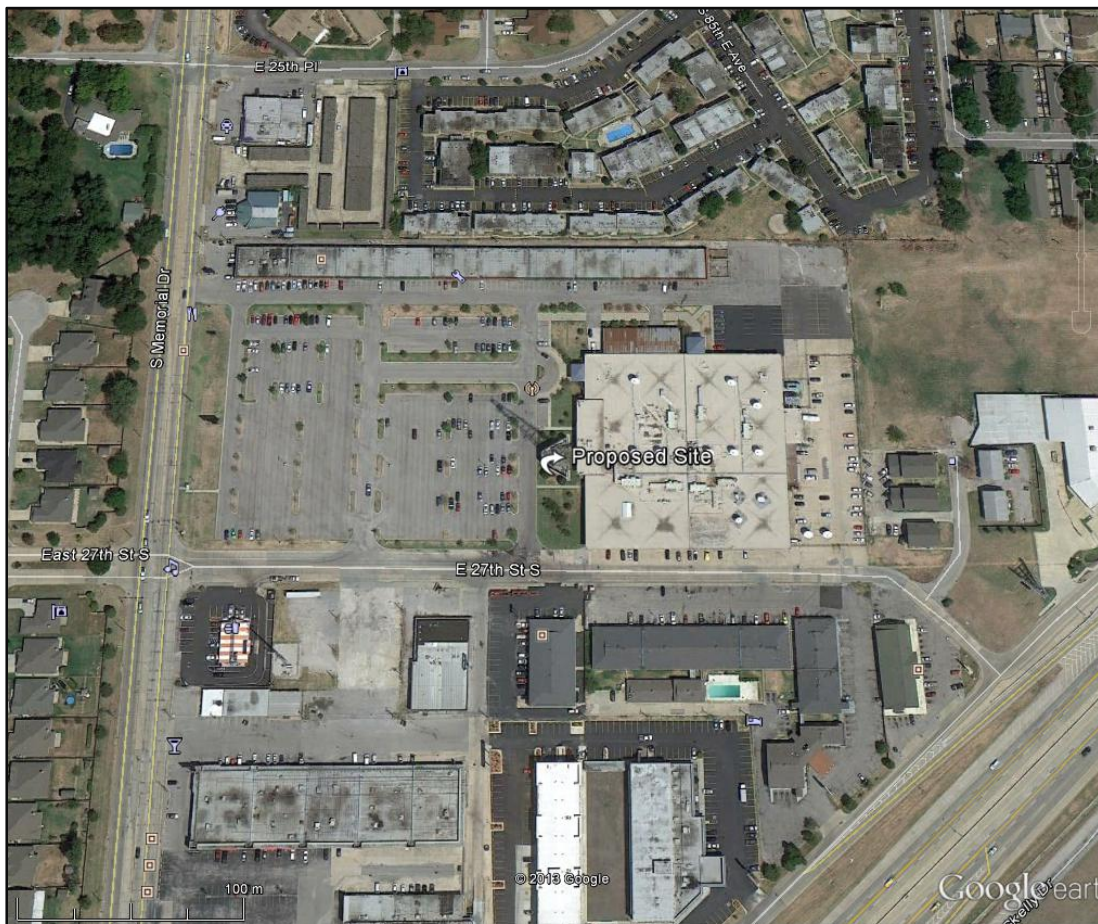
KWEN, CH 238, Tulsa, OK

KWEN signal strength at the translator site	91.1 dBu
Translator corresponding interference contour	131.1 dBu
Distance to translator interference contour	31.0 meters

KRAV-FM, CH 243, Tulsa, OK

KRAV-FM signal strength at the translator site	91.1 dBu
Translator corresponding interference contour	131.1 dBu
Distance to translator interference contour	31.0 meters

The proposed height of the translator antenna is 78 meters above ground. The translator interference contour extends out 31.0 meters which will not reach the ground or any population by a margin of 47 meters. As is indicated on the below map, there are no occupied structures within this area that are equal or greater in height than the margin of 47 meters. Therefore, EMF respectfully requests a waiver of Section 74.1204(d) based on the showing of no population within the area of predicted interference.



LPFM Preclusion Study

The transmitter site of K240ED is located within 39 km of the Spectrum Available Market Grid of Tulsa, OK and thus a Grid Test is required. The below Grid Test demonstrates that no LPFM channel opportunity will be precluded by the proposed modification of K240ED.

Tulsa, OK
Latitude 36-09-14
Longitude 095-59-33
Grid Size 31 x 31
Micro FM 100 Watts at 30 m HAAT
Co-channel and 1st adjacent protected
2nd adjacent channel protected
3rd adjacent channel not protected
I.F. not protected
TV Channel 6 protected
CP records protected
APP records protected
FM Translators protected
TV Channel 6 Translators / LP protected
Auction 83 FX App records protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	225	0	250	0	275	0
201	0	226	0	251	0	276	0
202	0	227	0	252	0	277	0
203	0	228	138	253	0	278	0
204	0	229	0	254	0	279	0
205	0	230	0	255	0	280	218
206	0	231	0	256	0	281	0
207	0	232	0	257	0	282	0
208	0	233	0	258	0	283	0
209	0	234	126	259	0	284	0
210	0	235	33	260	0	285	0
211	0	236	0	261	0	286	0
212	0	237	0	262	0	287	0
213	0	238	0	263	0	288	0
214	0	239	0	264	0	289	0
215	0	240	0	265	0	290	0
216	4	241	0	266	0	291	0
217	0	242	0	267	0	292	0
218	0	243	0	268	0	293	0
219	0	244	0	269	0	294	0
220	0	245	0	270	0	295	0
221	0	246	0	271	0	296	0
222	0	247	0	272	0	297	0
223	0	248	0	273	0	298	4
224	0	249	0	274	0	299	7
						300	161

Total 691

Total allotments, least preclusive spacing: 16
Total allotments, most preclusive spacing: 12