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**Table 1****Minor Change to Licensed Facility, K245BA, September 13, 2019****Channel Study**

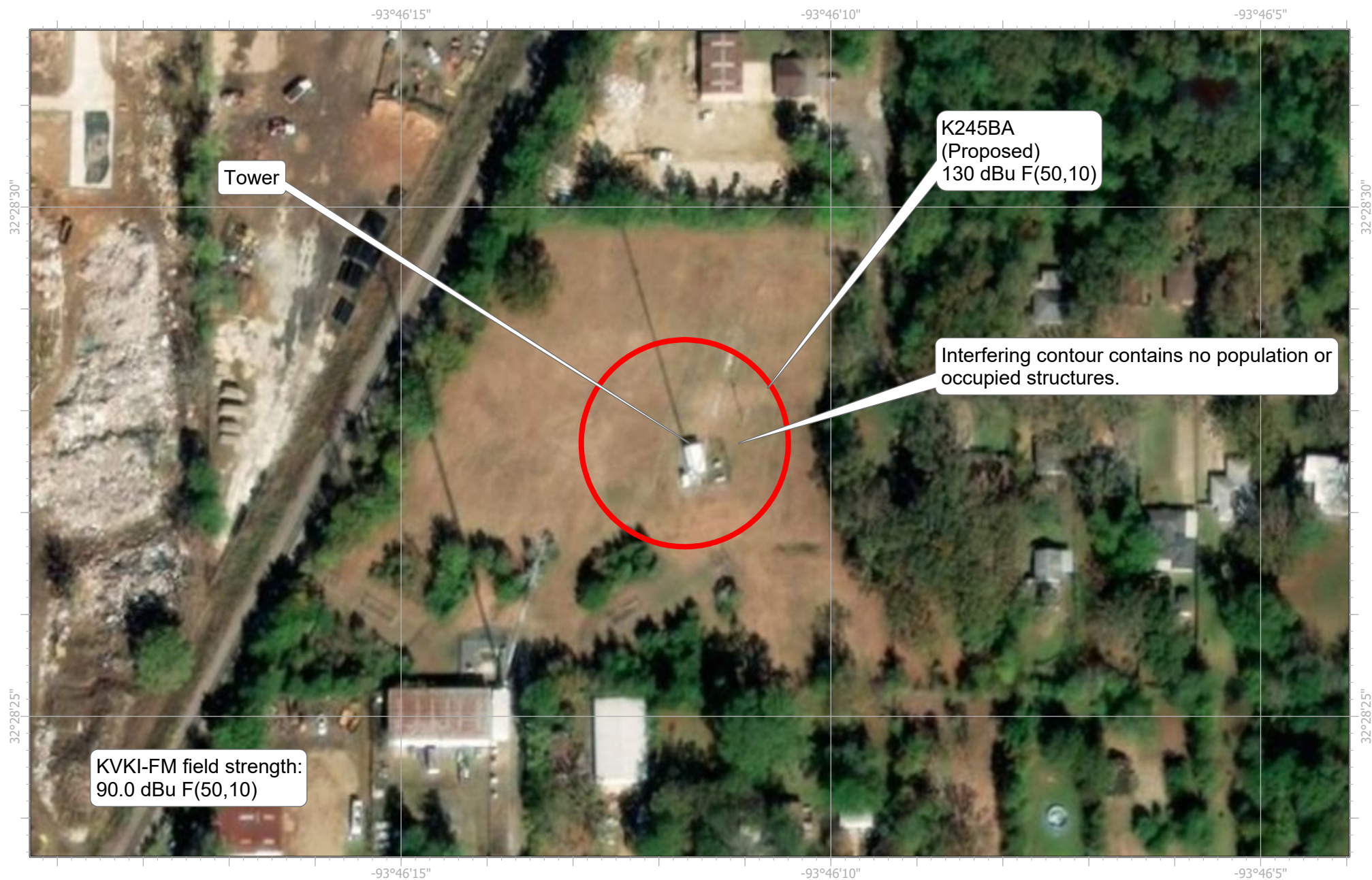
Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)	
243	C1	KVKI-FM	FM	LIC	SHREVEPORT	LA	US	TOWNSQUARE MEDIA SHREV	15.8	327.3	68.3	-52.5	90.0	(see NOTE)
245	D	<b>K245BA</b>	<b>FX</b>	<b>LIC</b>	<b>SHREVEPORT</b>	<b>LA</b>	<b>US</b>	<b>HOUSTON CHRISTIAN BROAD</b>	<b>4.6</b>	<b>32.8</b>	<b>55.6</b>	<b>-51.0</b>	<b>76.9</b>	<b>(same as applicant)</b>
245	D	K245BW	FX	LIC	MARSHALL	TX	US	HANSZEN BROADCAST GROU	55.6	280.5	54.9	0.7	31.3	
245	C3	KSCN	FM	LIC	PITTSBURG	TX	US	EAST TEXAS BROADCASTING	135.6	296.4	79.8	55.8	23.1	
247	C2	KQHN	FM	LIC	WASKOM	TX	US	CUMULUS LICENSING LLC	2.2	10.8	53.1	-50.9	113.8	(see NOTE)

**NOTE:**

Second adjacent KVKI-FM has a field strength of 90.0 dBu F(50,50) at the proposed K245BA site. Therefore, the K245BA interfering contour is the K245BA 130.0 dBu F(50,10). The proposed K245BA interfering contour will not overlap any occupied structures or population (SEE FIGURE 2). Therefore this proposal is compliant with the allowance of Rule 74.1204(d). (SEE FIGURE 2).

Second adjacent KQHN has a field strength of 113.8 dBu F(50,50) at the proposed K245BA site. Since the KQHN field strength is greater than the KVKI-FM field strenght, potential interference to KQHN is not the "worst case" scenario to consider.





K245BA SHREVEPORT, LA - Channel 245 (96.9 MHz)  
HOUSTON CHRISTIAN BROADCASTERS, INC.  
MINOR CHANGE TO LICENSED FACILITY

Figure 2

2nd adjacent channel interference exhibit with respect to KVKI-FM  
The proposed K245BA interfering contour will not overlap any occupied structures or population.  
Therefore this proposal is compliant with the allowance of Rule 74.1204(d).

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## Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	<b>Power Density <math>\mu\text{W}/\text{cm}^2</math> at 2 meters AGL</b>				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$ )	Max. PD beyond 10 m	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
K245BA (PROPOSED)	87	ERI 100A-1M	1	0.200	0.200	0.07	0.01%	0.4	0.2%	84.0
						0.07	<b>0.01%</b>	0.4	<b>0.2%</b>	84.0

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FMModel

In the absence of specific antenna data, the EPA-dipole, single bay model is used.