

FM CHANNEL INTERFERENCE STUDY

Job title: KSCL Amendment
Proposed latitude: N 32 28 58.15
Proposed longitude: W 93 43 49.96
Proposed transmit antenna elevation(AMSL): 89.2 meters
Proposed maximum ERP: 5.8000 kW
Database file name: FCC
Protect maximum contours?: N

Proposed channel: 217A

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result
216C2	KXUL	14293	MONROE	LA	LIC	82.6	164.5	81.6	
Prop F(50,10)	54 dBu	26.5 km + KXUL	F(50,50)	60 dBu	43.0 km =	69.5			
Prop F(50,50)	60 dBu	18.0 km + KXUL	F(50,10)	54 dBu	63.6 km =	81.6			
214C	KLSA	14835	ALEXANDRIA	LA	LIC	132.1	151.1	80.8	
Prop F(50,10)	100 dBu	1.9 km + KLSA	F(50,50)	60 dBu	78.9 km =	80.8			
Prop F(50,50)	60 dBu	18.9 km + KLSA	F(50,10)	100 dBu	11.4 km =	30.3			
217D	K217EB	14870	JENA	LA	CP	121.1	168.9	79.2	
Prop F(50,10)	40 dBu	73.2 km + K217EB	F(50,50)	60 dBu	6.0 km =	79.2			
Prop F(50,50)	60 dBu	18.7 km + K217EB	F(50,10)	40 dBu	19.9 km =	38.5			
218C2	KGRM	14881	GRAMBLING	LA	LIC	87.5	94.6	92.2	2.4
Prop F(50,10)	54 dBu	26.2 km + KGRM	F(50,50)	60 dBu	48.9 km =	75.2			
Prop F(50,50)	60 dBu	17.8 km + KGRM	F(50,10)	54 dBu	74.5 km =	92.2			
214D	K214CE	14889	GRAMBLING	LA	LIC	87.5	94.6	17.8	
Prop F(50,10)	100 dBu	1.8 km + K214CE	F(50,50)	60 dBu	7.1 km =	8.9			
Prop F(50,50)	60 dBu	17.8 km + K214CE	F(50,10)	100 dBu	0.0 km =	17.8			
215C3	KBSA	14932	EL DORADO	AR	LIC	47.3	130.0	35.7	
Prop F(50,10)	80 dBu	5.4 km + KBSA	F(50,50)	60 dBu	30.2 km =	35.7			
Prop F(50,50)	60 dBu	17.4 km + KBSA	F(50,10)	80 dBu	9.9 km =	27.3			
219A	KNWD	15543	NATCHITOCHES	LA	LIC	143.7	101.1	21.8	
Prop F(50,10)	80 dBu	5.9 km + KNWD	F(50,50)	60 dBu	9.4 km =	15.2			
Prop F(50,50)	60 dBu	18.8 km + KNWD	F(50,10)	80 dBu	3.0 km =	21.8			
220D	K220FQ	15548	MANY	LA	LIC	164.5	109.1	13.8	
Prop F(50,10)	100 dBu	0.0 km + K220FQ	F(50,50)	60 dBu	11.8 km =	11.8			
Prop F(50,50)	60 dBu	13.8 km + K220FQ	F(50,10)	100 dBu	0.0 km =	13.8			
217D	K217EC	15565	MANY	LA	CP	164.5	109.1	59.3	49.7
Prop F(50,10)	40 dBu	53.5 km + K217EC	F(50,50)	60 dBu	5.8 km =	59.3			
Prop F(50,50)	60 dBu	13.8 km + K217EC	F(50,10)	40 dBu	19.2 km =	33.0			
217A	KSCL	15584	SHREVEPORT	LA	LIC	318.0	0.1	44.4	-44.3
Prop F(50,10)	40 dBu	37.8 km + KSCL	F(50,50)	60 dBu	6.6 km =	44.4			
Prop F(50,50)	60 dBu	10.7 km + KSCL	F(50,10)	40 dBu	21.9 km =	32.6			

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result
214D	K214BE	15590	SHREVEPORT, ETC.	LA	LIC	314.7	2.7	9.9	-7.2
Prop F(50,10)	100 dBu	0.0 km	+ K214BE	F(50,50)	60 dBu	5.1 km	=	5.1	
Prop F(50,50)	60 dBu	9.9 km	+ K214BE	F(50,10)	100 dBu	0.0 km	=	9.9	
271C3	KDKS-FM	15600	BLANCHARD	LA	LIC	309.2	20.5	11.0	9.5
IF channel separation requirement = 11.0 km									
219A	None	15619	MANSFIELD	LA	APP	200.5	37.1	27.7	9.4
Prop F(50,10)	80 dBu	2.8 km	+ None	F(50,50)	60 dBu	24.9 km	=	27.7	
Prop F(50,50)	60 dBu	8.8 km	+ None	F(50,10)	80 dBu	7.9 km	=	16.7	
216D	K216EX	15621	MINDEN	LA	LIC	70.0	45.3	32.4	12.9
Prop F(50,10)	54 dBu	26.2 km	+ K216EX	F(50,50)	60 dBu	6.2 km	=	32.4	
Prop F(50,50)	60 dBu	17.7 km	+ K216EX	F(50,10)	54 dBu	8.9 km	=	26.7	
216A	NEW	15622	GREENWOOD	LA	APP	253.9	24.5	24.2	0.3
Prop F(50,10)	54 dBu	9.5 km	+ NEW	F(50,50)	60 dBu	12.0 km	=	21.4	
Prop F(50,50)	60 dBu	6.6 km	+ NEW	F(50,10)	54 dBu	17.6 km	=	24.2	
217A	KSCL	15623	SHREVEPORT	LA	APP	173.5	0.2	82.3	-82.1
Prop F(50,10)	40 dBu	44.4 km	+ KSCL	F(50,50)	60 dBu	20.2 km	=	64.6	
Prop F(50,50)	60 dBu	12.0 km	+ KSCL	F(50,10)	40 dBu	70.3 km	=	82.3	
219A	None	15624	MANSFIELD	LA	APP	200.5	37.1	32.9	4.2
Prop F(50,10)	80 dBu	2.8 km	+ None	F(50,50)	60 dBu	30.1 km	=	32.9	
Prop F(50,50)	60 dBu	8.8 km	+ None	F(50,10)	80 dBu	9.7 km	=	18.5	
217A	KSCL	15625	SHREVEPORT	LA	APP	173.5	0.2	74.5	-74.3
Prop F(50,10)	40 dBu	44.4 km	+ KSCL	F(50,50)	60 dBu	17.9 km	=	62.3	
Prop F(50,50)	60 dBu	12.0 km	+ KSCL	F(50,10)	40 dBu	62.5 km	=	74.5	
216D	K216DP	15641	HOPE	AR	LIC	7.3	117.4	38.8	
Prop F(50,10)	54 dBu	26.3 km	+ K216DP	F(50,50)	60 dBu	12.5 km	=	38.8	
Prop F(50,50)	60 dBu	17.8 km	+ K216DP	F(50,10)	54 dBu	18.5 km	=	36.3	
215C1	KSWP	16202	LUFKIN	TX	LIC	215.1	150.8	71.0	
Prop F(50,10)	80 dBu	2.3 km	+ KSWP	F(50,50)	60 dBu	68.7 km	=	71.0	
Prop F(50,50)	60 dBu	7.0 km	+ KSWP	F(50,10)	80 dBu	31.0 km	=	38.1	
220C2	KAVX	16203	LUFKIN	TX	LIC	215.1	150.8	52.9	
Prop F(50,10)	100 dBu	0.0 km	+ KAVX	F(50,50)	60 dBu	52.9 km	=	52.9	
Prop F(50,50)	60 dBu	7.0 km	+ KAVX	F(50,10)	100 dBu	5.9 km	=	12.9	
216A	KBWC	16225	MARSHALL	TX	LIC	275.8	60.8	15.6	45.2
Prop F(50,10)	54 dBu	9.5 km	+ KBWC	F(50,50)	60 dBu	6.1 km	=	15.6	
Prop F(50,50)	60 dBu	6.6 km	+ KBWC	F(50,10)	54 dBu	8.7 km	=	15.3	
214C3	KTAA	16231	BIG SANDY	TX	LIC	278.9	110.6	33.6	
Prop F(50,10)	100 dBu	0.0 km	+ KTAA	F(50,50)	60 dBu	33.6 km	=	33.6	
Prop F(50,50)	60 dBu	6.7 km	+ KTAA	F(50,10)	100 dBu	3.2 km	=	9.9	
220A	KHCJ	16233	JEFFERSON	TX	CP	298.7	79.4	29.3	
Prop F(50,10)	100 dBu	0.0 km	+ KHCJ	F(50,50)	60 dBu	29.3 km	=	29.3	
Prop F(50,50)	60 dBu	8.7 km	+ KHCJ	F(50,10)	100 dBu	2.7 km	=	11.3	

CH	Call	Record	City	ST	Status	Bear.	Dist.	Reqd. Dist.	Result
218A	990729MA	16237	CARTHAGE	TX	APP	240.2	75.7	37.2	38.5
Prop F(50,10)	54 dBu	9.5 km +	990729	F(50,50)	60 dBu	20.8 km =		30.2	
Prop F(50,50)	60 dBu	6.6 km +	990729	F(50,10)	54 dBu	30.6 km =		37.2	
218A	990729MA	16258	CARTHAGE	TX	APP	240.2	75.7	32.0	43.7
Prop F(50,10)	54 dBu	9.5 km +	990729	F(50,50)	60 dBu	17.2 km =		26.6	
Prop F(50,50)	60 dBu	6.6 km +	990729	F(50,10)	54 dBu	25.4 km =		32.0	
218A	KTXK	16274	TEXARKANA	TX	LIC	334.7	111.8	58.5	
Prop F(50,10)	54 dBu	20.1 km +	KTXK	F(50,50)	60 dBu	29.3 km =		49.3	
Prop F(50,50)	60 dBu	13.5 km +	KTXK	F(50,10)	54 dBu	45.0 km =		58.5	
216D	K216EQ	16300	DAINGERFIELD	TX	LIC	303.8	109.5	20.0	
Prop F(50,10)	54 dBu	12.9 km +	K216EQ	F(50,50)	60 dBu	7.1 km =		20.0	
Prop F(50,50)	60 dBu	9.2 km +	K216EQ	F(50,10)	54 dBu	10.2 km =		19.4	
216A	990907MG	16307	DAINGERFIELD	TX	APP	306.2	112.6	19.2	
Prop F(50,10)	54 dBu	13.0 km +	990907	F(50,50)	60 dBu	6.2 km =		19.2	
Prop F(50,50)	60 dBu	9.3 km +	990907	F(50,10)	54 dBu	8.8 km =		18.1	
216A	990907MG	16309	DAINGERFIELD	TX	APP	306.2	112.6	19.2	
Prop F(50,10)	54 dBu	13.0 km +	990907	F(50,50)	60 dBu	6.2 km =		19.2	
Prop F(50,50)	60 dBu	9.3 km +	990907	F(50,10)	54 dBu	8.8 km =		18.1	
217C3	KGLY	16953	TYLER	TX	LIC	264.6	145.2	112.6	32.6
Prop F(50,10)	40 dBu	22.1 km +	KGLY	F(50,50)	60 dBu	39.7 km =		61.8	
Prop F(50,50)	60 dBu	6.6 km +	KGLY	F(50,10)	40 dBu	106.0 km =		112.6	

End of channel 217 study