

**KMXH 93.9 FM Comprehensive Technical Exhibit**

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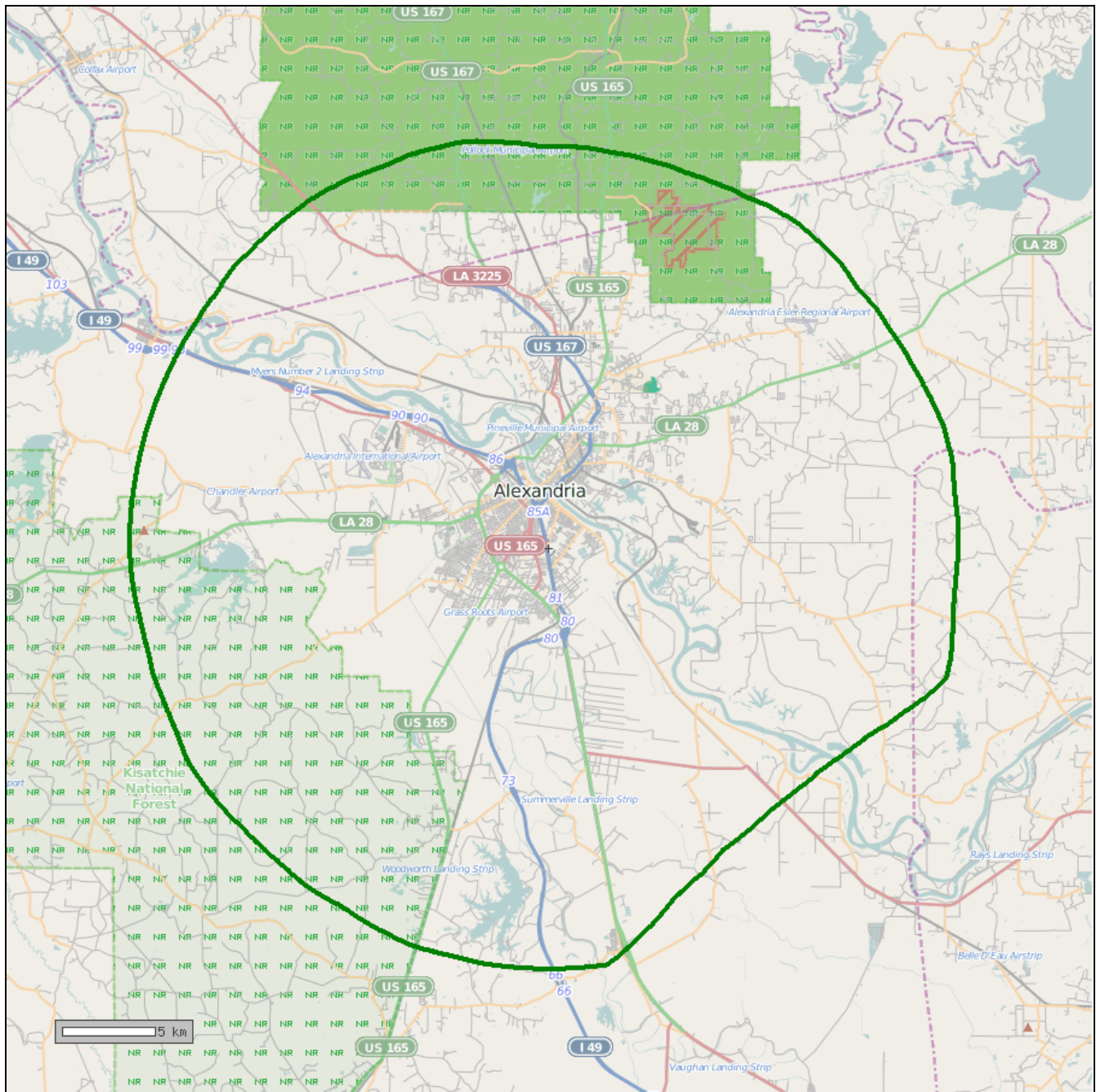
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## **SUMMARY**

JWBP Broadcasting, LLC ("Applicant"), licensee of station KMXH 93.9 FM (Facility ID #21854) at Alexandria, Louisiana, hereby submits this application in furtherance of upgrading the broadcast facility of KMXH from a FM Class A authorization to a FM Class C3 authorization.

## **Exhibit 28 - Community Coverage / Section 73.315 Exhibit**

The proposed KMXH transmitter site lies within the licensed community of Alexandria, Louisiana, and as such, the community is easily encompassed by the F(50,50) 70 dBu (3.16 mV/m) signal using the Commission's curves propagation methodology. Therefore, it is concluded that the proposed facility complies with the Commission's Rules pertaining to requisite community coverage.



**FIGURE 1:** Predicted F(50,50) 70 dBu contour in Alexandria, Louisiana.

### **Exhibit 30 - Separation Study / Section 73.207 Exhibit**

Table 1 shows the spacing study performed for the proposed KMXH facility. All minimum distance requirements of 47 C.F.R. §73.207 are met with the exceptions of the licensed facility of station KRDJ 93.7 FM at New Iberia, Louisiana on FM Channel 229C1, as well as the (unbuilt) permitted facility of station KGGM 93.9 FM at Delhi, Louisiana on FM Channel 230C3 (though KGGM currently operates on FM Channel 228A). §73.215 processing is requested to resolve these short-spacings (see Exhibit 34).

**TABLE 1: Section 73.207 Separation Study**

Proposed Station            KMXH / Alexandria, Louisiana  
Channel                      FM Channel 230C3  
Coordinates                (NAD 27) 31-16-57.3 N 92-26-24.5 W

**CDBS**

App	Call	Type	Channel	Community	State	Dist.	Minimum	Margin	
491723	KRDJ	LIC	229C1	NEW IBERIA	LA	136.58	144.00	-7.42	*
1415185	KGGM	CP	230C3	DELHI	LA	150.83	153.00	-2.17	*
187333	WEMX	LIC	231C1	KENTWOOD	LA	151.83	144.00	7.83	
564136	KSMB	LIC	233C	LAFAYETTE	LA	104.28	96.00	8.28	
1243564	KRLQ	LIC	231C2	HODGE	LA	132.25	117.00	15.25	
70125	KXKS-FM	LIC	229C	SHREVEPORT	LA	209.05	176.00	33.05	
1229559	NONE	VAC	230A	BASTROP	LA	177.32	142.00	35.32	
492263	KJAE	LIC	228C3	LEESVILLE	LA	83.00	43.00	40.00	
1565483	NEW	CP	232C3	HARRISONBURG	LA	86.03	43.00	43.03	
21268	KQXY-FM	LIC	231C1	BEAUMONT	TX	197.65	144.00	53.65	
1447400	KSMB	CP	233C1	BAKER	LA	136.58	76.00	60.58	
1507688	KAGZ	CP	230C2	BURKE	TX	251.78	177.00	74.78	
1235043	KAGZ	LIC	230A	LUFKIN	TX	221.59	142.00	79.59	
220812	KNEK-FM	LIC	284C3	WASHINGTON	LA	100.44	14.00	86.44	
243578	KWTG	LIC	284A	VIDALIA	LA	105.47	12.00	93.47	

\* - 73.215 processing is requested to resolve these short-spacings

### **Exhibit 34 - Contour Protection Study / Section 73.215 Exhibit**

Although the proposed KMXH facilities do not satisfy the minimum spacing requirements of §73.207 with regard to the licensed facilities of station KRDJ, New Iberia, Louisiana or the permitted facility of station KGGM, Delhi, Louisiana, the contour protection requirements for short-spaced assignments of §73.215 are met towards both the KRDJ authorization and the outstanding construction permit for KGGM.

1) The distance between the KRDJ (229C1) transmitter site and the proposed KMXH (230C3) transmitter site is 136.58 km. Although this distance is less than the 144 km spacing required under §73.207, it exceeds the 133 km minimum distance requirement of §73.215(e). The locations of the protected and interfering contours of KRDJ (using its hypothetical maximum facilities of 100 kW at 299 meters above average terrain) and the proposed KMXH facility were determined and are shown in Figure 1. No prohibited overlap is expected between the protected and interfering contours.

2) The distance between the permitted KGGM (230C3) transmitter site and the proposed KMXH (230C3) transmitter site is 150.83 km. Although this distance is less than the 153 km spacing required under §73.207, it exceeds the 142 km minimum distance requirement of §73.215(e). The locations of the protected and interfering contours of KGGM (using hypothetical maximum facilities of 25 kW at 100 meters above average terrain) and the proposed KMXH facility were determined and are shown in Figure 2. No prohibited overlap is expected between the protected and interfering contours.

Relevant contour plots were generated by computer using the methods specified in §73.313. Antenna height above average terrain was computed using the standard eight-radial method specified in §73.313(d). Average terrain along additional azimuths was computed and used in conjunction with the F(50,50) and F(50,10) curves to determine distances to protected and interfering contours respectively. These additional azimuths were not included in the computation of the antenna eight-radial height above average terrain. Elevation data used in the computation of average terrain was determined by linear interpolation of USGS 30-arcsecond digital elevation model files consistent with §73.312.

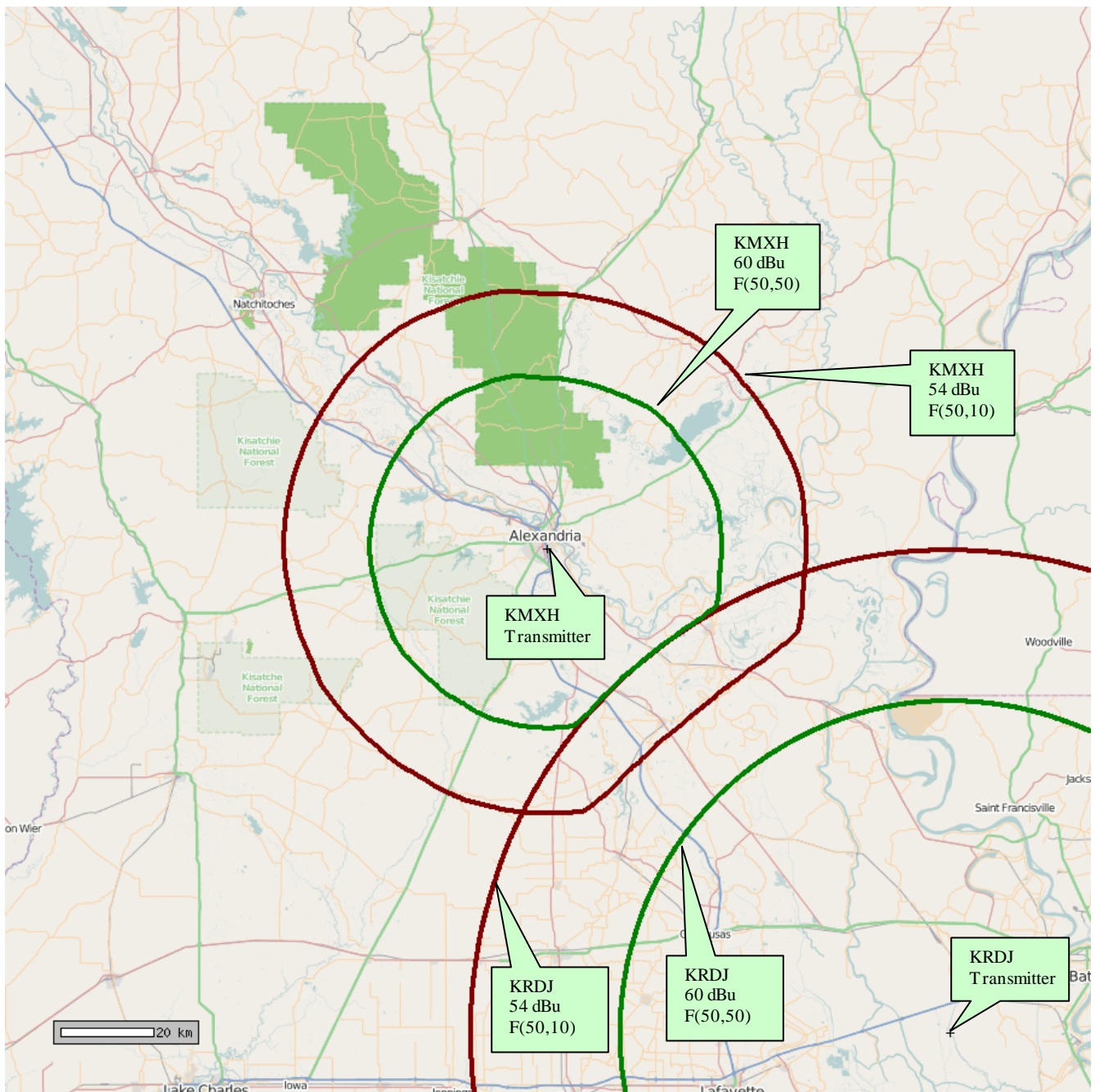


Figure 1. Predicted \$73.215 contour protection in relation to KRDJ / (BLH-20000209ABB), channel 229C1, NEW IBERIA, LA.

#### KRDJ (BLH-20000209ABB) Details

Record Type.....	License
Community of License.....	NEW IBERIA, LA
Latitude (NAD27).....	30-20-19 N
Longitude (NAD27).....	91-31-23 W
Channel.....	229C1
Effective Radiated Power.....	100.0 kW
Antenna Height above Average Terrain.....	296 m



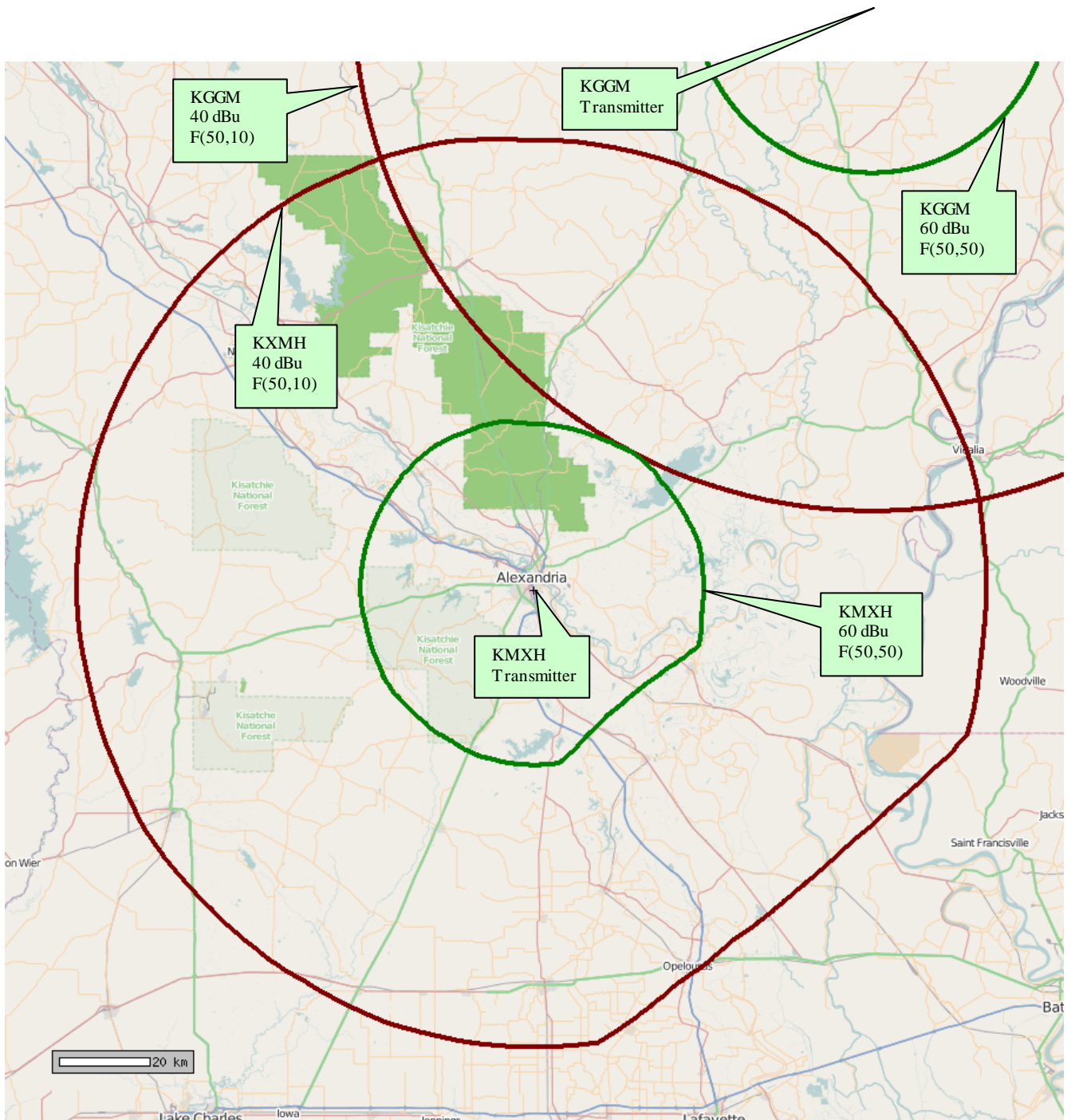


Figure 2. Predicted \$73.215 contour protection in relation to KGGM / (BPH-20110214ADS), channel 230C3, DELHI, LA.

#### KGGM (BPH-20110214ADS) Details

Record Type.....	Construction Permit
Community of License.....	DELHI, LA
Latitude (NAD27).....	32-27-52 N
Longitude (NAD27).....	91-39-06 W
Channel.....	230C3
Effective Radiated Power.....	12.0 kW
Antenna Height above Average Terrain.....	144 m