

TECHNICAL EXHIBIT  
Amendment  
APPLICATION FOR MINOR CHANGE TO A COMMERCIAL BROADCAST STATION  
FORM 301 FM  
3.9 kilowatts H&V  
105.4 m HAAT  
KRNH CHANNEL 224A  
GOLDTHWAITE, TX  
FACILITY ID#198798  
B+ BROADCASTING, LLC

**PURPOSE OF APPLICATION**

B+ BROADCASTING, LLC, proposes in this instant application, to modify the licensed facility to specify operation on Channel 224A, Goldthwaite, TX at 3.9 kilowatts at 125.4 m HAAT. This HAAT was calculated using V-Soft FM Commander 7.1.12 using FCC 30-second terrain data.

**NEW REFERENCE COORDINATES**

The new allotment coordinates are N31 26 23.5 W98 33 05.1 (NAD 83). These coordinates fully comply with 47CFR 73.207 with respect to all existing licensed facilities, applications, and vacant allotments with the exception of the now expired KNUZ BPH201600601ABG. The Goldthwaite city boundary is entirely within the 16.2 kilometer radius of these new reference coordinates. This application is accompanied by a petition for rulemaking to modify the residue of the allotment created at San Saba by the expired KNUZ permit.

**ANTENNA COORDINATES**

The proposed antenna will operate at 3.9 kilowatts horizontal and vertical with a non directional antenna. The antenna coordinates are the same as the allotment coordinates.

**ENVIRONMENTAL**

This proposal will use the existing KRNH tower with a new 6 Bay .75-wave EPA type 2 antenna with a center of radiation at 42 m agl. There are no other broadcast facilities utilizing this tower. Using the OET FM Model program the proposed antenna results in a maximum exposure level of 1.275 microatts/cm<sup>2</sup> at 2 meters above ground level and occurs at 31.8 meters from the tower base. This exempts the proposed facility from further study, as it is .637 percent of the maximum for general population uncontrolled exposure level and is exempt from further study.

Goldthwaite  
New

REFERENCE			DISPLAY DATES
31 26 23.50 N.	CLASS = A	Int = AA	DATA 06-09-20
98 33 05.10 W.	Current Spacings to 3rd Adj.		SEARCH 06-11-20
----- Channel 224 - 92.7 MHz -----			

Call	Channel	Location		Azi	Dist	FCC	Margin
Lat.	Lng.	Ant	Power		HAAT		
-----	-----	-----	-----	-----	-----	-----	-----
KNUZ %	CP 224A	San Saba		TX 225.4	35.28	114.5	-79.2
31 12 59.6	98 48 56.2		6.000 kW		23 M		
	S Content Marketing, LLC		BPH20160601ABG				
KGSR	LIC 227C	Cedar Park		TX 145.9	95.52	94.5	1.0
30 43 34.7	97 59 25.4		100.000 kW		587 M		
	Waterloo Media Group, L.P.		BMLH20140306AHQ				
AL6420	VAC 277A	Mullin		TX 323.6	19.81	9.5	10.3
31 35 00.6	98 40 32.2		0.000 kW		100 M		
	Roy E. Henderson		RM11776				
KRMX	LIC 225C2	Marlin		TX 91.0	127.44	105.5	21.9
31 24 45.6	97 12 41.0		50.000 kW		150 M		
	M&m Broadcasters, Ltd.		BLH20111014AAR				
KMWX	LIC 223C2	Abilene		TX 313.6	135.45	105.5	30.0
32 16 35.5	99 35 39.3		27.500 kW		202 M		
	Townsquare Media Abilene L		BLH20070410ADE				
KTFW-FM	LIC-N 221C1	Glen Rose		TX 28.1	105.27	74.5	30.8
32 16 31.5	98 01 23.1	N	25.000 kW		432 M		
	Lkcm Radio Licenses, L.P.		BLH19990429KC				
KZPS	LIC 223C	Dallas		TX 49.0	196.46	164.5	32.0
32 35 19.5	96 58 06.0		100.000 kW		508 M		
	Amfm Texas Licenses LLC		BMLH20060907AAO				
KSTV-FM	LIC-D 226C3	Dublin		TX 16.7	86.13	41.5	44.6
32 10 59.5	98 17 13.2	D	7.000 kW		178 M		
	Villecom LLC		BLH19971017KB				
-----	-----	-----	-----	-----	-----	-----	-----

% = Station Fails minimum 73.215 spacings  
All separation margins include rounding

**KRNR**

Latitude: 31-26-23.50 N  
Longitude: 098-33-05.10 W  
ERP: 3.90 kW  
Channel: 224  
Frequency: 92.7 MHz  
AMSL Height: 573.0 m  
Elevation: 531.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

28.3 kilometer Service Contour

16.2 kilometer Allocation Contour

Goldthwaite Boundary

Goldthwaite  
**KRNR**

Hamilton

Evant

Richland Springs

San Saba

Lometa

Scale 1:375,000

0 5 10 15 km

V-Soft Communications LLC ©