

KMXF (FM) LOWELL, ARKANSAS

COORDINATE CORRECTION APPLICATION FOR MINOR CHANGE

This minor change application seeks only a correction of coordinates of the currently licensed facility of KMXF (FM). No actual physical changes to the facility are to be made. This application seeks only to match the stations licensed coordinates and elevations to those of the underlying antenna structure registration number, which was recently updated by verified land survey. An upward adjustment in operating power is also made by this application.

This correction will cause KMXF to become spaced 0.10 km further from station KHST. As presently licensed the distance between KHST and KMXF is 112.26 km. This present distance is 4.7 km short of the distance specified in Section 73.207. This short spacing is a result of KHST utilizing spacing in accordance with Section 73.215. Attached as Figure 1. is a spacing study showing this relationship.

This request for coordinate correction will not create any new short-spacing, and will cause a 0.1 increase in spacing "on paper", which has existed in reality since KHST licensed its present site in September of 2004 utilizing section 73.215.

A waiver of 73.207 is requested if necessary. The Commission has previously allowed such a waiver in DA 98-1853 in the case of station KICD-FM Spencer, IA.

KMXF is a "Class C2" station Licensed with a Height of Antenna Center Above Average Terrain ("HAAT") of 216 meters, with class equivalent power of 22 kW. In Figure 2 the results of the FCC web tool for calculating HAAT are given, indicating a HAAT of 217 meters as proposed. The equivalent C2 facilities was determined to be 24.0 kW as indicated in Figure 3, "FMpower".

The Proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The antenna system is an EPA type 3, 5- bay, full wave spaced, "Roto- tiller " antenna, mounted with its center of radiation 108 meters above ground level, and operates with an effective radiated power of 24.0 Kilowatts in both the horizontal and vertical planes. At 2 meters above ground, at 488 meters from the base of the tower, this proposal will contribute worst case, 10.8 microwatts per square centimeter, or 1.1 percent of the allowable ANSI limit for controlled exposure, and 5.5 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1. Spacing Study from Corrected Location:

KMXF At Corrected Location and Elevation							
Capstar Tx Llc							
REFERENCE						DISPLAY DATES	
36 26 24.2 N.			CLASS = C2			DATA 06-11-13	
93 58 24.4 W.			Current Spacings to 3rd Adj.			SEARCH 06-11-13	
----- Channel 270 - 101.9 MHz -----							
Call	Channel	Location		Azi	Dist	FCC	Margin

KMXF	LIC 270C2	Lowell		AR 26.8	0.13	190.0	-189.9
KHST	LIC-N 269C3	Lamar		MO 346.6	112.35	117.0	-4.7
KEOK	LIC 271A	Tahlequah		OK 235.7	106.90	106.0	0.9
KQRA	LIC 271A	Brookline		MO 37.5	108.32	106.0	2.3
KFMD-FM	LIC 268C3	Greenland		AR 190.9	60.84	56.0	4.8
KIXQ	LIC 273C1	Joplin		MO 324.0	90.47	79.0	11.5
KTXR	LIC 267C	Springfield		MO 47.4	124.87	105.0	19.9
KCTT-FM	LIC 269A	Yellville		AR 96.9	132.39	106.0	26.4
Amended 971204-Amended		980311					
KTFX-FM	LIC 269C3	Warner		OK 229.6	146.92	117.0	29.9
R15557	ADD 270C3	Heger Springs		AR 117.1	208.15	177.0	31.2
new drop-in.							
1553526	APP 270C3	Heber Springs		AR 117.1	208.15	177.0	31.2
One Step Application							
1554727	RSV-A 270C3	Heber Springs		AR 117.1	208.15	177.0	31.2
One Step Application							
KUAF	LIC-D 217C0	Fayetteville		AR 184.1	65.27	31.0	34.3
KZWV	LIC 270C2	Eldon		MO 30.5	238.33	190.0	48.3
KLXQ	LIC-N 270A	Mountain Pine		AR 163.7	230.05	166.0	64.1
KVOM-FM	LIC 269A	Morrilton		AR 142.4	178.98	106.0	73.0

RSV-R = reserved - needs protection, RSV-A = allocation							

Figure 2. HAAT Determination

Antenna Height Above Average Terrain (HAAT) Calculations (HAAT) Results Aud... Page 1 of 1

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Audio Division **Antenna Height Above Average Terrain (HAAT) / Contour Calculations**

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Antenna Height Above Average Terrain Calculations -- Input

Latitude **36 26 24.2 North**
Longitude **93 58 24.4 West** (NAD 27)

Height of antenna radiation center above mean sea level [RCAMSL] = **618.8** meters

Number of Evenly Spaced Radials = 8 0° is referenced to True North

Results:

Calculated HAAT= 217. meters

(Antenna Height Above Average Terrain)
using the 30 second FCC/NGDC terrain data)

Antenna Radiation Center Heights Above Individual Radials:

0.0°	170.3 meters
45.0°	176.1 meters
90.0°	244.7 meters
135.0°	242.6 meters
180.0°	245.0 meters
225.0°	223.7 meters
270.0°	212.7 meters
315.0°	218.8 meters

[New Antenna Height Above Average Terrain \(HAAT\) calculation?](#)

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http://transition.fcc.gov/fcc-bin/haat_calculator?dlat=36&mlat=26&slat=24.2&ns=1&dlon... 6/11/2013

Figure 3. Power Equivalency Determination

Page 1 of 1



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FMpower Results



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FMpower Results

Class C2 facilities for Equivalency Determination:

Reference ERP = 50.000 kW
Reference HAAT = 150.0 meters
F(50,50) 60 dBu protected contour at 52.2 km distance

Equivalent ERP (rounded per 47 CFR 73.212) = **24.000 kW**

. . . at . **217.0 meters HAAT**

Unrounded ERP = 24.186 kW for 217.0 meters HAAT

Class C2 stations are authorized in AK.

[Enter New Data in FMpower?](#)

Related items: [FM and TV Propagation Curves](#),
This document may be accessed at <http://www.fcc.gov/mb/audio/bickel/fmpower.html>

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