

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

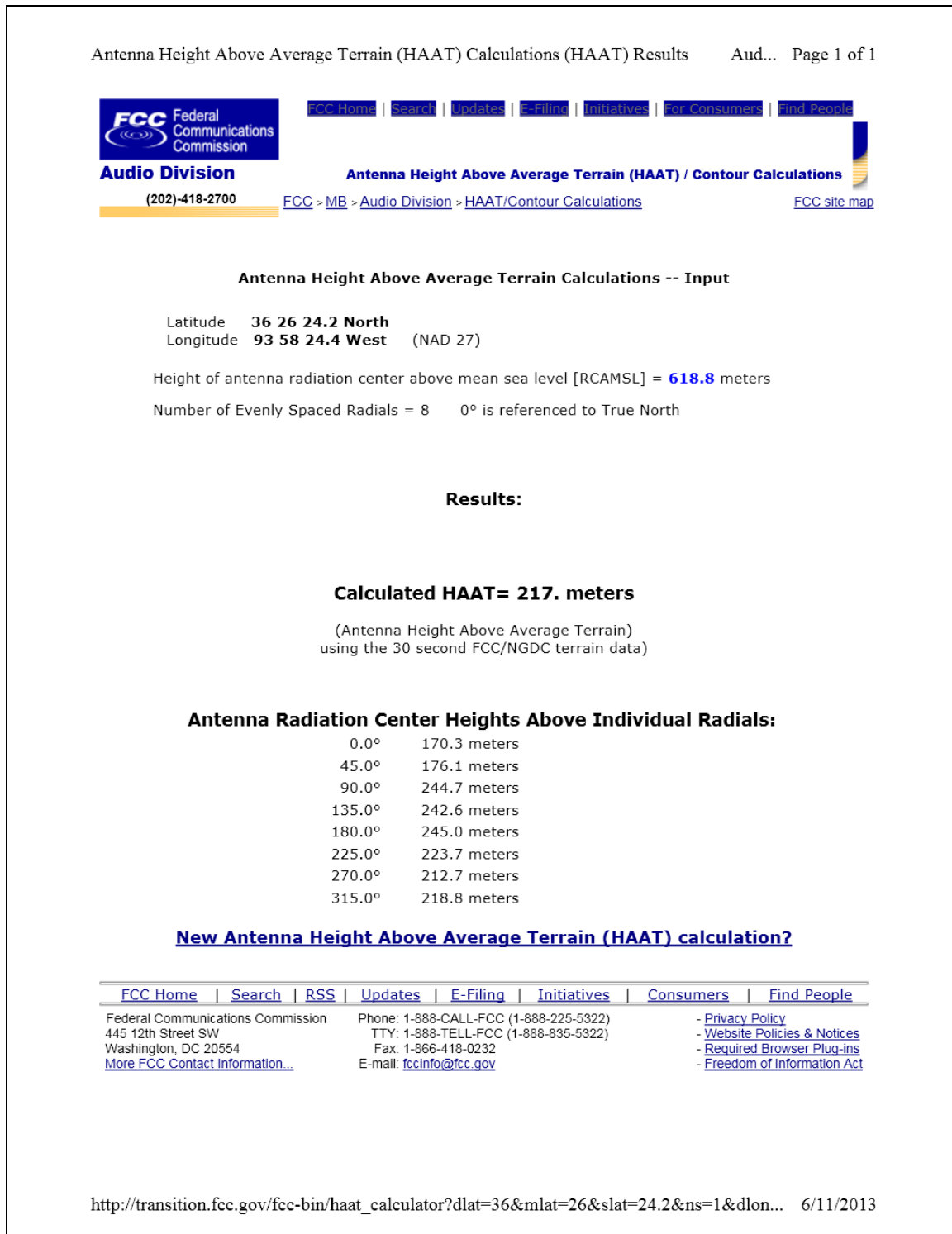



Figure 3. Power Equivalency Determination

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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.

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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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