

**TECHNICAL EXHIBIT  
APPLICATION FOR NON-COMMERCIAL BROADCAST STATION  
FORM 340  
NEW FM CHANNEL 208 C1  
100 kW H&V  
295m HAAT  
Kaibito, AZ**

**PURPOSE OF APPLICATION**

Good News Broadcasting Network, Inc. ("Good News") is filing this application for a new station in this non commercial filing window.

**ANTENNA COORDINATES PROPOSED FACILITY**

Good News proposes antenna coordinates of N 37°-00'-36.9" W 111°-40'-50.5" which corresponds to an existing tower where KXAZ is located.

**ENVIRONMENTAL**

The proposed facility will be located on the existing 121 foot (37 m) tower. The center of radiation will be at 28 meters above ground level and 1748 meters above mean sea level. The proposed antenna is a 5 element full wave spaced EPA type 3 antenna. The proposed site is in a rural and rugged terrain area. The OET FM model program was used to evaluate non-ionizing electromagnetic radiation at two meters above ground level at the 100 kilowatts H&V at 28 meters above ground level specified in this application. The maximum level was found to be 390 microwatts/cm<sup>2</sup> or 19.5 % of the maximum level for occupational, controlled access exposure level. This level occurs at 12.4 meters from the base of the support structure and will be inside a fenced enclosure.

**INTERFERENCE CITY - GRADE COVERAGE**

The proposed facility antenna coordinates fully protect all existing licenses and applications in compliance with 47 CFR 73.509. The facility is in full compliance with 73.515 as it covers the entire community with the FCC 60 dBu 50-50 city grade contour. See the following pages for depictions of the facts stated herein.

Kaibito, AZ, ch. 208

KXAZ tower

REFERENCE  
37 00 36.90 N.  
111 40 50.50 W.

CH# 208C1 - 89.5 MHz, Pwr= 100 kW DA, HAAT= 292.2 M, COR= 1748 M  
Average Protected F(50-50)= 71.77 km  
Standard Directional

DISPLAY DATES  
DATA 11-05-21  
SEARCH 11-08-21

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
207C1 Richfield	KUSL	LIC _CN UT		339.6 159.2	163.32 BLED20101210ALL	38 23 07.90 112 19 59.70	2.000 973	99.5 3577	63.5 Utah State University Of A	0.3	0.5
210C0 Glendale	KFDJ	CP _HN UT		287.5 106.8	107.82 BPED20190422AAA	37 17 44.90 112 50 36.80	27.000 541	8.8 2481	77.5 Advance Ministries, Inc. D	35.9	21.5
208C3 Drake	KJZA	LIC _CN AZ		193.3 13.0	206.71 BMLED20171004ABO	35 12 00.00 112 12 20.60	0.250 770	99.5 2845	37.3 En Familia, Inc.	46.1	38.5
209A Red Mesa	KRMH	LIC _CN AZ		90.8 272.2	204.54 BLED19980309KC	36 57 48.00 109 22 41.40	4.500 41	37.5 1705	21.4 Red Mesa Unified School Di	78.5	44.9
207C Mesquite	KAER	LIC _HN NV		260.9 79.2	262.57 BLED20140616AAG	36 36 03.90 114 35 09.00	97.000 586	139.6 1173	94.3 Educational Media Foundati	48.0	59.3

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.  
All separation margins (if shown) include rounding.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
« = Station meets FCC minimum distance spacing for its class.

**Kaibito KXAZ**

Latitude: 37-00-36.90 N  
Longitude: 111-40-50.50 W  
ERP: 100.00 kW  
Channel: 208  
Frequency: 89.5 MHz  
AMSL Height: 1748.0 m  
Elevation: 1720.0 m  
Horiz. Pattern: Directional

