

K14PX-D MINOR MODIFICATION TO LICENSE FCC FILE #0000178486  
CH 14 4.6 kW DIRECTIONAL RC 436.1 M AMSL PAXICO, KANSAS  
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS  
FEBRUARY 2024

**Proposed Change in Facilities**

K14PX-D is a licensed LPTV DTV facility authorized in file number 0000178486. The proposed facility is believed to qualify as a minor change:

The applicant proposes herein to move to FCC Tower registration ASR 1032508. The site change and proposed facilities are believed to comply with FCC policy and rules based on the following:

The proposed CH 14 LPTV protected contour and the licensed contour have an area of common overlap as depicted on Figure 1 attached.

The proposed site is located a distance of 36.73 kilometers (22.8 miles) from the licensed site coordinates in compliance with rule section 74.787 (b) (iii).

The proposed antenna system consists of a single Kathrein UHF panel antenna model 75010210, horizontally polarized with 0.5 degree beam tilt. The antenna radiation center is 91.4 meters AGL. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 1.00 has been used to calculate the power density 2 meters above ground. The maximum power density is 19.2 uw/cm squared calculated for an ERP of 4,600 watts H. polarization. This value is 6.1% of the Public Exposure MPE of 313 microwatts per centimeter squared. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed tower is existing along with the transmitter building, access road and power.

Below is a copy of the TVStudy interference analysis for CH 14 based on the facilities described above with the antenna pattern lobe oriented at 190 degrees true. As can be seen at the conclusion of the report there is no impermissible caused interference or received interference above 2%. It is believed that the proposed facility provides full protection to other television facilities.

## TVStudy Report

Study created: 2024.02.10 17:38:53

Study build station data: LMS TV 2024-02-08

Proposal: K14PX-D D14 LD LIC PAXICO, KS

File number: BLANK0000178486

Facility ID: 186921

Station data: User record

Record ID: 1474

Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K14SU-D	D14	LD	LIC	KEOKUK, IA	BLANK0000182817	378.8 km
No	KTIV	D14	DT	LIC	SIOUX CITY, IA	BLANK0000063868	372.6
No	KOCW	D14	DT	LIC	HOISINGTON, KS	BLCDT20090622AFO	284.7
No	DK14NX-D	D14	LD	APP	PITTSBURG, KS	BLANK0000194275	227.8
No	KUKC-LD	D14	LD	LIC	KANSAS CITY, MO	BLANK0000120582	103.0
No	K14SH-D	D14	LD	LIC	MARSHFIELD, MO	BLANK0000124637	319.1
No	K14PQ-D	D14	LD	CP	SAINT JOSEPH, MO	BLANK0000194349	98.1
No	K14PQ-D	D14	LD	LIC	SAINT JOSEPH, MO	BLANK0000198168	98.1
No	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLANK0000118216	453.4
No	KTUL	D14	DT	LIC	TULSA, OK	BLANK0000215800	366.0

No	K26PI-D	N15z	TX	LIC	Kansas City, KS	BLTTL19880714IH	175.0
No	KSNW	D15	DT	LIC	WICHITA, KS	BLANK0000201956	231.3
No	K15MB-D	D15	LD	LIC	KANSAS CITY, MO	BLANK0000185547	102.0
No	KNPN-LD	D15	LD	LIC	SAINT JOSEPH, MO	BLANK0000064322	88.6
No	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	251.1
No	KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000105938	182.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D14

Mask: Full Service

Latitude: 39 15 41.00 N (NAD83)

Longitude: 95 39 21.00 W

Height AMSL: 436.1 m

HAAT: 0.0 m

Peak ERP: 4.60 kW

Antenna: KAT-75010210 ID 1010775 190.0 deg

Elev Pattn: Generic

Elec Tilt: 0.50

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.036 kW	101.9 m	15.3 km
45.0	0.002	120.0	8.4
90.0	0.011	120.8	12.3
135.0	0.678	127.4	32.1
180.0	4.31	123.5	41.3
225.0	2.08	105.4	36.1
270.0	0.062	102.0	17.3
315.0	0.017	80.6	11.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 110 m

Distance to Canadian border: 1029.7 km

Distance to Mexican border: 1178.1 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 309.0 degrees    Distance: 299.4 km  
Proposal is not within the West Virginia quiet zone area  
Conditions at Table Mountain receiving zone:  
Bearing: 279.7 degrees    Distance: 823.6 km  
No land mobile station failures found  
Study cell size: 0.50 km  
Profile point spacing: 0.10 km  
Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%  
No IX check failures found.

The foregoing was prepared on behalf of Roseland Broadcasting, Inc. by Clarence M. Beverage of Communications Technologies, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements she believes them to be true and correct.



Clarence M. Beverage  
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February 10, 2024