KXXW-LD MINOR MODIFICATION OF LICENSE CH 13 3 kW DIRECTIONAL
TYLER, TEXAS
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
SEPTEMBER 2023

Proposed Change in Facilities

KXXW-LD is an LPTV DTV facility authorized in file number 0000178768. The proposed facility is believed to qualify as a minor change:

The applicant specifies herein moving to an existing tower site associated with FCC ASR 1047032. The site change and proposed facilities are believed to comply with FCC policy and rules based on the following:

The proposed CH 13 LPTV protected contour has an area of common overlap as depicted on Figure 1 attached.

The proposed site is located at a distance of 6.71 kilometers (4.2 miles) from the licensed site coordinates in compliance with rule section 74.787 (b) (iii).

The proposed antenna system consists of a Kathrein Scala DRV, antenna, 4 stack, elliptically polarized without beam tilt. The antenna radiation center is 112.8 meters (370 feet) 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 12.24 uw/cm squared calculated for an ERP of 3,000 watts H. polarization and 1,500 watts V. polarization. This value is 6.1% of the Public Exposure MPE per section 1.1310. 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.

Below is a copy of the TVStudy interference analysis for CH 13 based on the facilities described above and an antenna orientation of 55 degrees true. As can be seen at the conclusion of the report there is no impermissible caused interference. It is believed that the proposed facility provides full protection to other television facilities.

TVStudy Report

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Study created: 2023.09.25 20:35:27

Study build station data: LMS TV 2023-09-22

    Proposal: KXXW-LD D13 LD LIC TYLER, TX
 File number: BLANK0000178768
 Facility ID: 187585
Station data: User record
   Record ID: 1397
     Country: U.S.

Stations potentially affected by proposal:
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IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KBMT	D12	DT	LIC	BEAUMONT, TX	BLANK0000196696	269.7 km
No	KAMU-TV	D12	DT	LIC	COLLEGE STATION, TX	BLEDT20030319AFB	203.3
No	KJJM-LD	D12	LD	LIC	DALLAS & MESQUITE, TX	BLANK0000187499	170.2
No	KXII	D12	DT	LIC	SHERMAN, TX	BLCDT20090226ACF	237.9
Yes	KETG	D13	DT	LIC	ARKADELPHIA, AR	BLEDT20100308ACO	278.6
No	WBRZ-TV	D13	DT	CP	BATON ROUGE, LA	BLANK0000189587	452.5
No	WBRZ-TV	D13	DT	LIC	BATON ROUGE, LA	BLCDT20110420ABI	452.5
No	KLTM-TV	D13	DT	LIC	MONROE, LA	BLEDT20090619ABS	310.1
No	KETA-TV	D13	DT	LIC	OKLAHOMA CITY, OK	BLEDT20140929AOU	419.5
No	KHFD-LD	D13	LD	LIC	DALLAS, TX	BLANK0000203313	154.0
No	KTRK-TV	D13	DT	LIC	HOUSTON, TX	BLANK0000203808	298.7
No	KAKW-DT	D13	DT	LIC	KILLEEN, TX	BLANK0000186955	301.4
No	KHTM-LD	D13	LD	CP	LUFKIN, TX	BLANK0000153442	120.9
No	KHTM-LD	D13	LD	LIC	LUFKIN, TX	BLANK0000151868	120.8
No	KHTM-LD	N13z	TX	LIC	LUFKIN, TX	BLTVL19931109IA	120.8
No	KJDA-LD	D13	LD	LIC	SHERMAN, TX	BLANK0000001316	237.9

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No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km
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Record parameters as studied:

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    Channel: D13
       Mask: Simple
   Latitude:  32 15 34.00 N (NAD83)
  Longitude:  95 22  4.00 W
Height AMSL: 291.8 m
       HAAT: 0.0 m
   Peak ERP: 3.00 kW
    Antenna: SCALA DRV 55.0 deg
Elev Pattrn: Generic
  Elec Tilt: 0.50
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48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.468 kW	148.4 m	38.8 km
45.0	2.84	128.3	49.3
90.0	1.43	143.3	46.3
135.0	0.035	161.6	23.5
180.0	0.047	146.7	24.0
225.0	0.008	167.4	17.2
270.0	0.031	167.0	23.2
315.0	0.005	166.2	14.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 154 m

Distance to Canadian border: 1523.2 km

Distance to Mexican border: 616.8 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 205.0 degrees Distance: 587.8 km

Proposal is not within the West Virginia quiet zone area

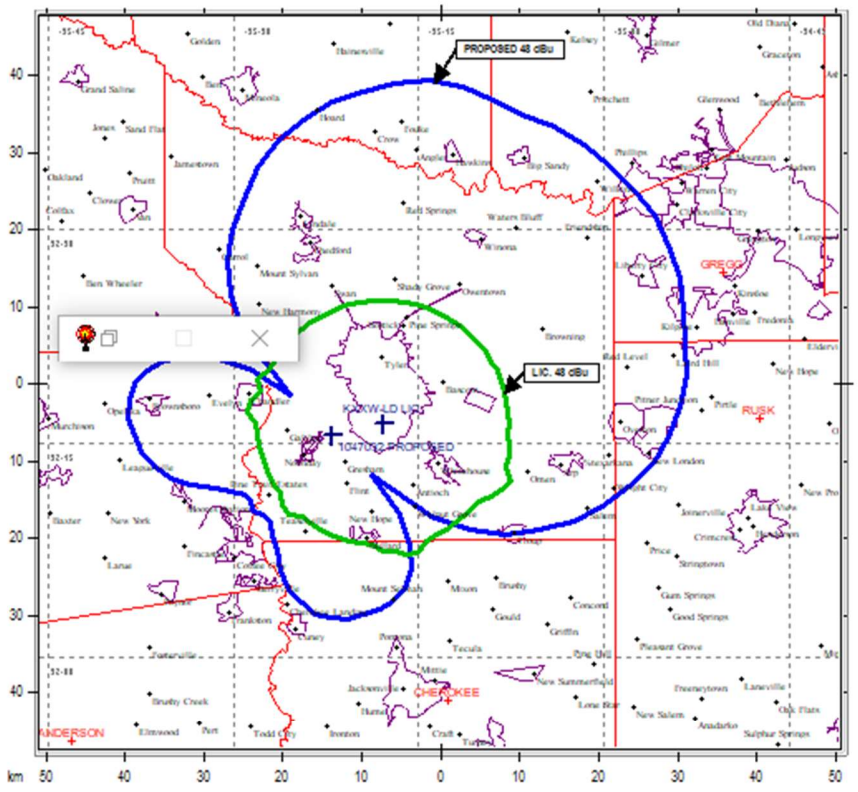
Conditions at Table Mountain receiving zone:
Bearing: 317.5 degrees Distance: 1241.4 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

No IX check failures found.

PROPOSED KXXW-LD CH 13 3 kW ERP DA 291.8 M AMSL TYLER, TEXAS



Communications Technologies Medford, New Jersey

County Borders City Borders Lat/Lon Grid

Map Scale: 1:625000 1 cm = 6.25 km V|H Size: 95.24 x 101.43 km Figure 1

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 he believes them to be true and correct.

Clarence M. Beverage
for Communications Technologies
Medford, New Jersey
September 26, 2023