

Engineering Exhibit
Minor Change for KQXX-FM
Mission, Texas,
Facility ID: 36168

This exhibit presents the technical details of a change in antenna location of 2.2 km from the existing facility due to the loss of the tower lease. This relocation is along a bearing of 181.1°T from the presently licensed facility. No change in principal community, class, or channel is proposed. This exact facility is currently the Licensed Auxiliary Antenna of the station, BXLH-20181108AAN. Following grant of this instant permit application, BXLH-20181108AAN will be modified to specify a different antenna.

Current Spacing Compliance

Attached as Figure 1 is a spacing study from the current antenna location indicating compliance with the Commission's current Section 73.207 rule with the exception of the facilities of KJAV, KBIC, and NEW-CP permit for Port Isabel, TX.

Short-spaced Stations with Current Facilities

Spacing to the facilities of KJAV and KBIC is currently pursuant to Section 73.213(c) as the allocations for all 3 facilities were made under prior spacing rules. Section 73.215 was utilized for the NEW-CP permit for Port Isabel, TX.

Proposed Antenna Location

The proposed antenna for KQXX-FM is to be mounted 55.7 meters above ground on the existing tower identified by antenna structure registration number 1224556.

Proposed Location Spacing Compliance

Attached as Figure 2 is a spacing study from the proposed antenna location indicating compliance with the Commission's Section 73.207 rule with the exception of the facilities of KJAV, KBIC, and NEW permit for Port Isabel, TX for domestic assignments and allotments.

With respect to the Country of Mexico we are requesting a restricted allotment. The proposed location is short-spaced to co-located vacant allotments for second-adjacent channels 286A and 290A at Los Villarreales, TA, Mexico.

Short-spaced Domestic Stations at Proposed Location

We will continue to utilize Section 73.213 to demonstrate compliance with KJAV. Section 73.215 will be used for KBIC, and NEW-CP permit for Port Isabel, TX; both stations meet the distance requirements of Section 73.215 as indicated in the table below:

Callsign	Channel	Class	Status	Dist km	Req Sep km	Clarence km
KQXX-FM	288	A	LIC	2.2	91.5	-89.3
KBIC	289	A	LIC	68.59	48.5	20.09
NEW	288	A	CP	113.94	91.5	22.44

KJAV 73.213 Contour Compliance

KJAV and KQXX-FM became short spaced after November 1964. Such short spaced-stations with existing contour overlap, as demonstrated in Figure 3, may be modified under 73.213(c)(2). We will use reduced height facilities to prevent increasing current overlaps with KJAV as demonstrated in Figure 3.

KBIC 73.215 Contour Compliance

KBIC and KQXX-FM became short spaced after November 1964 but do not have existing contour overlap as demonstrated in Figure 4. This re-location will utilize 73.215 and will not cause any contour overlap to a class-maximum KBIC facility, also demonstrated in Figure 4.

NEW-CP 73.215 Contour Compliance

NEW-CP and KQXX-FM use Section 73.215 spacing and do not have existing contour overlap as demonstrated in Figure 5. This re-location will not cause any contour overlap with the permitted facility, also demonstrated in Figure 5.

286A Los Villarreales, TA Contour Compliance

An allocation study has been conducted in order to demonstrate equivalent protection to the 286A Los Villarreales allotment. Attached as Figure 6 and Figure 7 is an engineering study, conducted pursuant to the radial interpolation method set forth in the US-Mexico FM Agreement, as well as a contour

map, which demonstrates that protection is provided to the 286A Los Villarreales, TA allotment

290A Los Villarreales, TA Contour Compliance

An allocation study has been conducted in order to demonstrate equivalent protection to the 290A Los Villarreales allotment. Attached as Figure 8 and Figure 9 is an engineering study, conducted pursuant to the radial interpolation method set forth in the US-Mexico FM Agreement, as well as a contour map, which demonstrates that protection is provided to the 290A Los Villarreales, TA allotment

Radio Frequency Radiation Study and Statement

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 proposed antenna system is a Bext TFC2K 4-element array with 1.0 wavelength spacing between elements, which has been evaluated using the program "FM Model" set for this type of radiating element; an EPA type 2 "Opposed V Dipole" mounted with its center of radiation 56 meters above ground level, and operated with an effective radiated power of 6.0 kilowatts in both the horizontal and vertical. At 2 meters above ground, at 20.8 meters from the base of the tower, this proposal will contribute worst case, 18.3 microwatts per square centimeter, or 1.83 percent of the allowable ANSI limit for controlled exposure, and 9.15 percent of the allowable limit for uncontrolled exposure. 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 required work.

Respectfully submitted,

Troy G. Langham
Vice President,
Technical Regulator Affairs
13 December 2018

Figures and Attachments

Figure 1 - Present Location Spacing Study

KQXX Now									
Clear Chan. B/casting Licenses, Inc., as Debtor In Poss									
REFERENCE						DISPLAY DATES			
26 13 50.0 N. CLASS = A Int = A						DATA 12-12-18			
98 20 18.0 W. Current Spacings to 3rd Adj.						SEARCH 12-12-18			
----- Channel 288 - 105.5 MHz -----									
Call	Channel	Location	Azi	Dist	FCC	Margin			
KQXX-FM	LIC 288A	Mission	TX 0.0	0.00	114.5	-114.5			
KJAV	LIC-D 285A	Alamo	TX 93.5	24.89	30.5	-5.6			
KBIC	LIC 289A	Raymondville	TX 69.4	67.74	71.5	-3.8			
NEW	CP -Z 288A	Port Isabel	TX 99.7	114.24	114.5	-0.26			
AL5955	VAC 286A	Los Villarreales	TA 270.3	30.22	25.0	5.2			
AL2981	VAC 290A	Los Villarreales	TA 270.3	30.22	25.0	5.2			
AL0112	VAC 287A	Valle Hermoso	TA 131.3	69.52	61.0	8.5			
R17224	VAC 290A	Cd. Camargo	TA 281.0	50.24	25.0	25.2			
K235CI	LIC-D 235D	Donna	TX 86.7	41.58	9.5	32.1			
AU9458111	VAC 287A	Premont	TX 8.3	112.69	71.5	41.2			
XHPAGFM	OPE 287C	Monterrey	NL 252.9	206.46	161.0	45.5			
XHPAGFM	USE 287C	Monterrey	NL 252.9	206.46	161.0	45.5			
XHNAFM	OPE 290AA	Matamoros	TA 117.0	93.56	31.0	62.6			
XHNAFM	USE 290AA	Matamoros	TA 117.0	93.56	31.0	62.6			
AU9457709	VAC 288A	Freer	TX 350.7	178.78	114.5	64.3			
K287BP	CP 287D	South Padre Island	TX 99.0	113.16	35.5	77.7			
KLHB	LIC 288A	Portland	TX 28.0	197.07	114.5	82.6			
AL0261	VAC 289A	San Rafael	TA 299.7	149.69	61.0	88.7			

Reference station has protected zone issue: Mexico

All separation margins include rounding

Figure 2 - Proposed Location Spacing Study

At KQXX Aux									
Clear Chan. B/casting Licenses, Inc.,as Debtor In Poss									
REFERENCE							DISPLAY DATES		
26 12 38.5 N.	CLASS = A Int = AA						DATA	12-12-18	
98 20 19.6 W.	Current Spacings to 3rd Adj.						SEARCH	12-12-18	
----- Channel 288 - 105.5 MHz -----									
Call	Channel	Location		Azi	Dist	FCC	Margin		
KQXX-FM	LIC 288A	Mission	TX	1.1	2.20	114.5	-112.3		
KJAV	LIC-D 285A	Alamo	TX	88.4	24.89	30.5	-5.6		
KBIC	LIC 289A	Raymondville	TX	67.7	68.59	71.5	-2.9		
10/17/2008: Proposed as Class B1 to Mexico 960621-Restricted allotment limited to 2.96kw ERP and 131m HAAT or the equivalent along the 163.5 degree azimuth towards channel 290AA in Matamoros, TX-Accepted by Mexico 961111									
AL5955	VAC 286A	Los Villarreales	TA	274.5	30.27	31.0	-0.7		
AL2981	VAC 290A	Los Villarreales	TA	274.5	30.27	31.0	-0.7		
NEW	CP -Z 288A	Port Isabel	TX	98.6	113.94	114.5	-0.56		
AL0112	VAC 287A	Valle Hermoso	TA	129.9	68.12	68.0	0.12		
R17224	VAC 290A	Cd. Camargo	TA	283.4	50.66	31.0	19.7		
XHPAGFM	USE 287C	Monterrey	NL	253.4	205.78	165.0	40.8		
Proposed by Mexico 960329-Accepted by Commission 960623									
XHPAGFM	OPE 287C	Monterrey	NL	253.4	205.78	165.0	40.8		
Proposed by Mexico 960329-Accepted by Commission 960623									
AU9458111	VAC 287A	Premont	TX	8.1	114.87	71.5	43.4		
Site Restriction: 14.4 km South; Mexican concurrence required.									
XHNAFM	USE 290AA	Matamoros	TA	115.8	92.62	31.0	61.6		
Proposed by Mexico 960329-Accepted by Commission 960623									
XHNAFM	OPE 290AA	Matamoros	TA	115.8	92.62	31.0	61.6		
Proposed by Mexico 960329-Accepted by Commission 960623									
AU9457709	VAC 288A	Freer	TX	350.8	180.95	114.5	66.5		
Site Restriction: 6.8 km South. Mex. c oncur. req'd.									
AL0261	VAC 289A	San Rafael	TA	300.4	150.76	68.0	82.8		
KLHB	LIC 288A	Portland	TX	27.7	199.04	114.5	84.5		
AL0039	VAC 287B1	Nuevo Laredo	TA	320.7	182.36	96.0	86.4		
Restricted allotment limited to 18kW ERP and 100m HAAT or the equivalent a long 101.1 degrees to protect 287AA in Premont, TX									

Reference station has protected zone issue: Mexico									
All separation margins include rounding									

Figure 3 - KQXX-FM and KJAV Contour Map

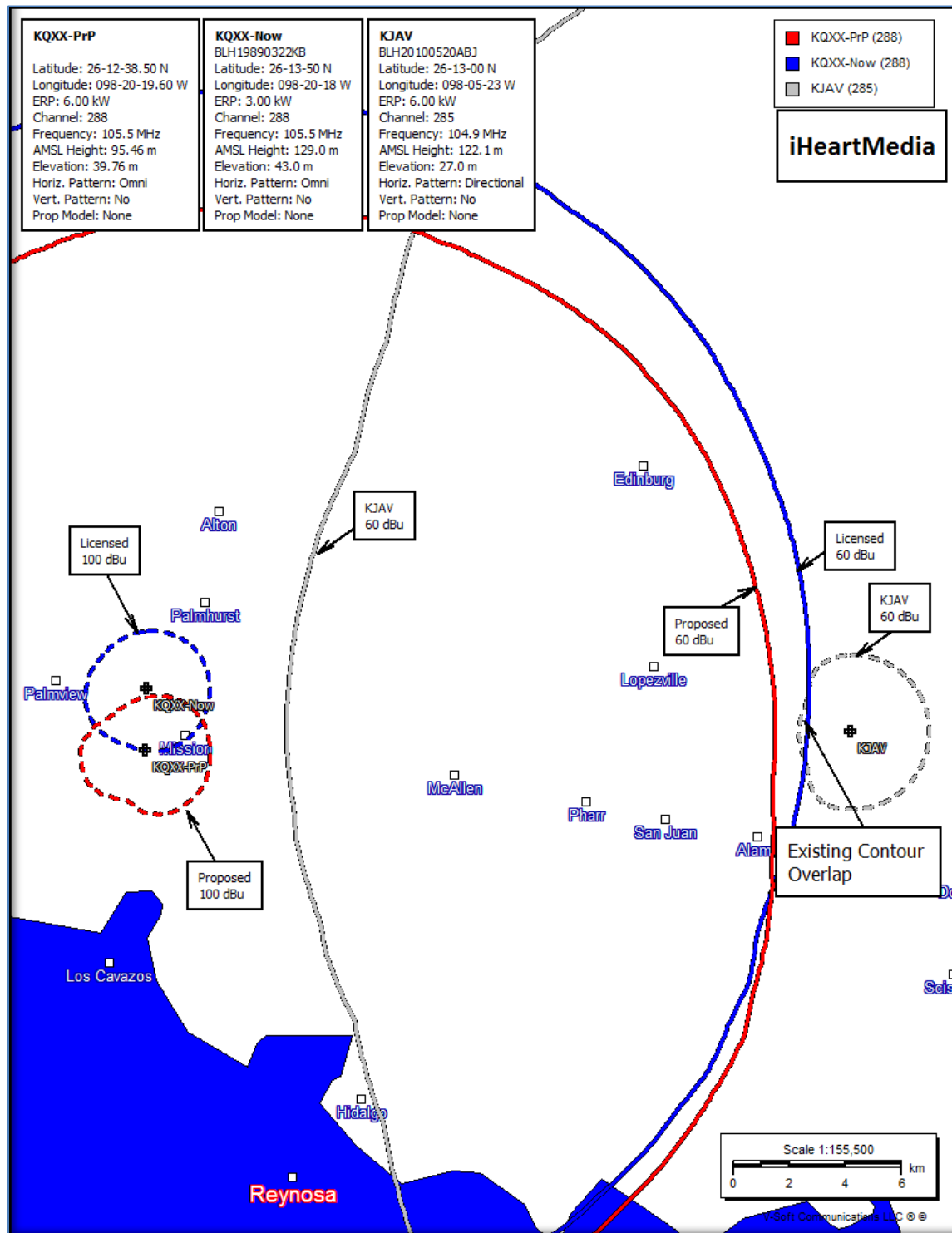


Figure 4 - KQXX-FM and KBIC Contour Map

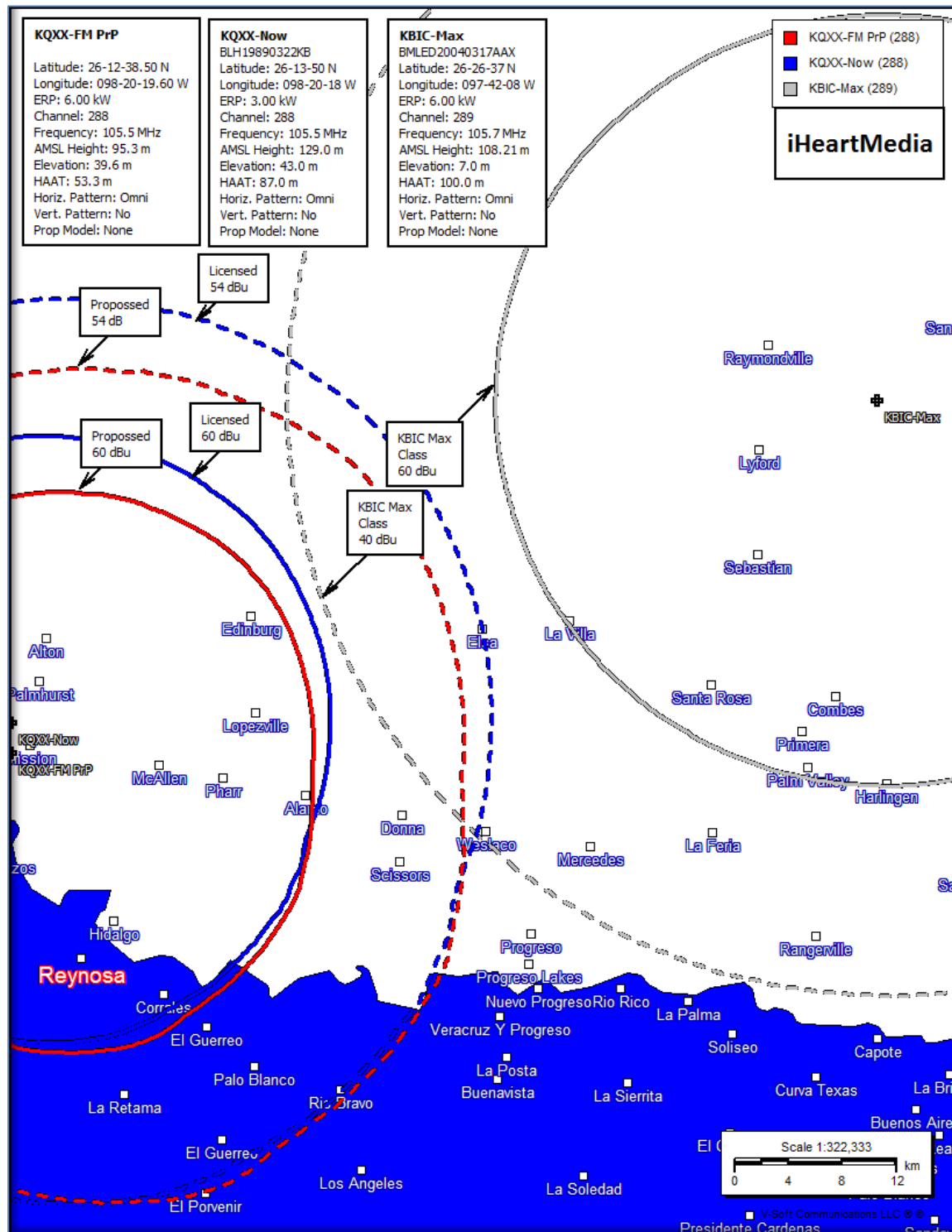


Figure 5 - KQXX-FM and NEW-CP Contour Map

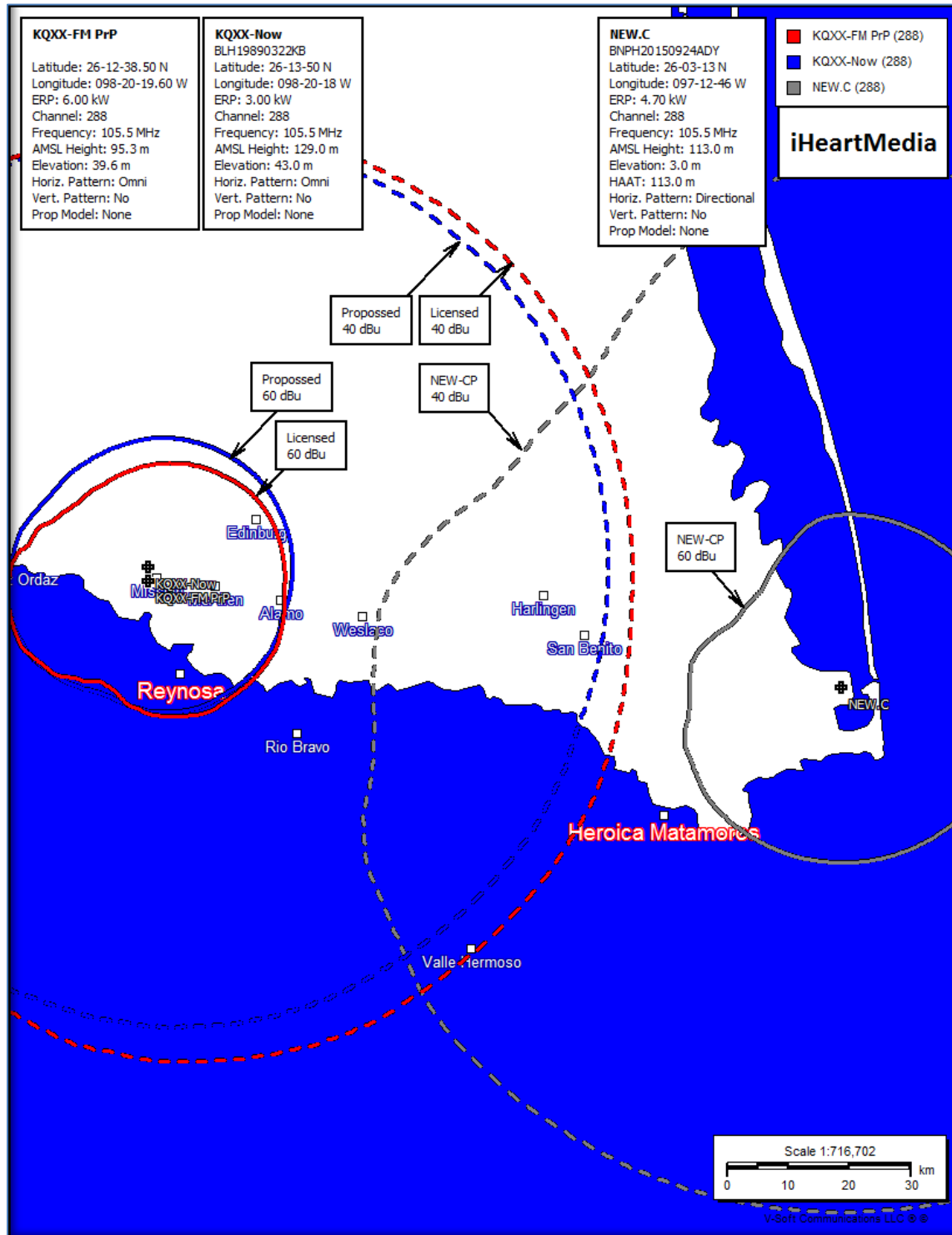


Figure 6 - 286A Los Villarreales, TA Radial Interpolation

CONTOUR PROTECTION WITH MEXICO 286A
KQXX-FM CHANNEL 288A
Mission, Texas

PROPOSED FACILITY

COMMUNITY: MISSION, TEXAS
CHANNEL: 288
CALL: KQXX-FM
CLASS: A
INTERNATIONAL: AA
COORDINATES: 26-12-38.5 N 98-20-19.6 W (NAD 27)
RADIATING CENTER: 95.3 METERS
AZIMUTH TO PROTECTED FACILITY: 274.5° DEGREES
STANDARD RADIALS: 274.0° HAAT: 60.5 M
 : 275.0° HAAT: 60.1 M
INTERPOLATED: 274.5° HAAT: 60.3 M
POWER: 6.0 KW AT 65.6 M ON 274.5 DEGREE RADIAL
INTERFERING CONTOUR: 100 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 5.4 KM

RESTRICTED ALLOCATION AT LOS VILLARREALES, TABASCO, MEXICO

COMMUNITY: LOS VILLARREALES, TABASCO
CHANNEL: 286
CALL: NEW
CLASS: A
COORDINATES: 26-13-54.0 N 98-38-29.0 W (NAD 27)
RESTRICTED FACILITY: NO
RELATIONSHIP: SECOND ADJACENT
PROTECTED CONTOUR: 60 DBU (50,50)
DISTANCE TO PROTECTED CONTOUR: 24.0 KM

SUMMARY

DISTANCE TO PROTECTED CONTOUR : 24.0 KM
DISTANCE TO RESTRICTED CONTOUR (KQXX-FM): 5.4 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED: 29.4 KM
ACTUAL SPACING: 30.3 KM
CLEARANCE 00.9 KM
NO OVERLAP OF PROTECTED AND INTERFERING CONTOUR

Figure 7 - 286A Los Villarreales, TA Contour Map

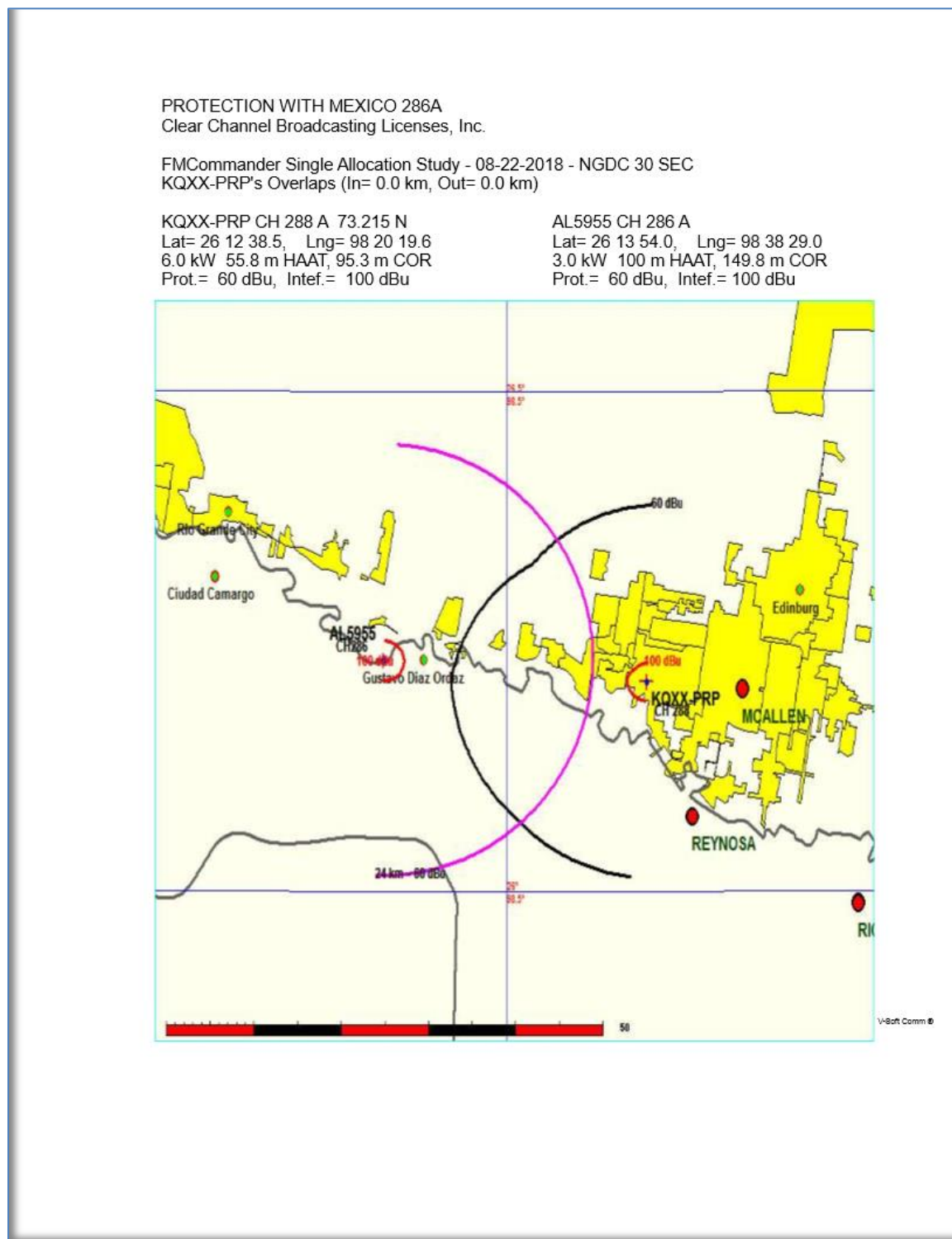


Figure 8 - 290A Los Villarreales, TA Radial Interpolation

CONTOUR PROTECTION WITH MEXICO 290A
KQXX-FM CHANNEL 288A
Mission, Texas

PROPOSED FACILITY

COMMUNITY: MISSION, TEXAS
CHANNEL: 288
CALL: KQXX-FM
CLASS: A
INTERNATIONAL: AA
COORDINATES: 26-12-38.5 N 98-20-19.6 W (NAD 27)
RADIATING CENTER: 95.3 METERS
AZIMUTH TO PROTECTED FACILITY: 274.5° DEGREES
STANDARD RADIALS: 274.0° HAAT: 60.5 M
 : 275.0° HAAT: 60.1 M
INTERPOLATED: 274.5° HAAT: 60.3 M
POWER: 6.0 KW AT 65.6 M ON 274.5 DEGREE RADIAL
INTERFERING CONTOUR: 100 DBU (50,10)
DISTANCE TO INTERFERING CONTOUR: 5.4 KM

RESTRICTED ALLOCATION AT LOS VILLARREALES, TABASCO, MEXICO

COMMUNITY: LOS VILLARREALES, TABASCO
CHANNEL: 290
CALL: NEW
CLASS: A
COORDINATES: 26-13-54.0 N 98-38-29.0 W (NAD 27)
RESTRICTED FACILITY: NO
RELATIONSHIP: SECOND ADJACENT
PROTECTED CONTOUR: 60 DBU (50,50)
DISTANCE TO PROTECTED CONTOUR: 24.0 KM

SUMMARY

DISTANCE TO PROTECTED CONTOUR : 24.0 KM
DISTANCE TO RESTRICTED CONTOUR (KQXX-FM): 5.4 KM
TOTAL DISTANCE RESTRICTED PLUS PROTECTED: 29.4 KM
ACTUAL SPACING: 30.3 KM
CLEARANCE 00.9 KM
NO OVERLAP OF PROTECTED AND INTERFERING CONTOUR

Figure 9 - 290A Los Villarreales, TA Contour Map

PROTECTION WITH MEXICO 290A
Clear Channel Broadcasting Licenses, Inc.

FMCommander Single Allocation Study - 08-22-2018 - NGDC 30 SEC
KQXX-PRP's Overlaps (In= 0.0 km, Out= 0.0 km)

KQXX-PRP CH 288 A 73.215 N
Lat= 26 12 38.5, Lng= 98 20 19.6
6.0 kW 55.8 m HAAT, 95.3 m COR
Prot.= 60 dBu, Intef.= 100 dBu

AL2981 CH 290 A
Lat= 26 13 54.0, Lng= 98 38 29.0
3.0 kW 100 m HAAT, 149.8 m COR
Prot.= 60 dBu, Intef.= 100 dBu

