

tvstudy v2.2.2
Database: localhost, Study: KNVO 517 KW, Model: Longley-Rice
Start: 2017.06.19 17:14:17

Study created: 2017.06.19 17:14:08

Study build station data: LMS TV 2017-06-02 (11)

Proposal: KNVO D17 DT MCALLEN, TX
File number: KNVO 517 KW
Facility ID: 69692
Station data: User record
Record ID: 499
Country: U.S.

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
KMBH	D16	DT	BL	HARLINGEN, TX	DTVBL56079	24.3 km
KCRP-CD	D17	DC	BL	CORPUS CHRISTI, TX	DTVBL48833	201.0
KGBT-TV	D18	DT	BL	HARLINGEN, TX	DTVBL34457	24.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Latitude: 26 5 19.00 N (NAD83)
Longitude: 98 3 45.00 W
Height AMSL: 310.5 m
HAAT: 285.6 m
Peak ERP: 517 kW
Antenna: DIE-TFU-22JSC-VP-R-C160 0.0 deg

39.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	442 kW	284.9 m	91.3 km
45.0	474	288.2	92.5
90.0	457	288.8	92.2
135.0	476	288.2	92.5
180.0	82.7	283.1	78.3
225.0	42.6	287.6	75.0
270.0	174	283.2	83.0
315.0	504	281.6	92.1

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 2225.4 km

**Proposal is within coordination distance of Mexican border
Distance to Mexican border: 2.6 km

Conditions at FCC monitoring station: Kingsville TX
Bearing: 6.7 degrees Distance: 151.4 km
ERP: 446 kW Field strength: 29.6 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 338.7 degrees Distance: 1694.5 km

No land mobile station failures found

Study cell size: 2.00 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%

Interference to DTVBL56079 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KMBH	D16	DT	BL	HARLINGEN, TX	DTVBL56079	

Undesireds:	KNVO	D17	DT	BL	MCALLEN, TX	DTVBL69692	24.3 km
	KNVO	D17	DT	BL	MCALLEN, TX	KNVO 517 KW	24.3
	KHCE-TV	D16	DT	LIC	SAN ANTONIO, TX	BLEDT20110215AEM	354.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
14313.5	1,225,737	14313.5	1,225,737	14261.5
10959.4	1,292,350	10939.3	1,292,350	10903.2
				1,223,083
				1,292,325
				10899.2
				1,292,315
				0.00
				0.00

(in Mexico)

Undesired	Total IX	Unique IX, before	Unique IX, after
KNVO D17 DT BL	52.0	2,654	52.0
KNVO D17 DT BL	52.0	2,654	52.0
KNVO D17 DT BL	36.0	25	36.0
KNVO D17 DT BL	40.0	35	40.0

(in Mexico)

(in Mexico)

Interference to DTVBL48833 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL34457 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGBT-TV	D18	DT	BL	HARLINGEN, TX	DTVBL34457	

Undesireds:	KNVO	D17	DT	BL	MCALLEN, TX	DTVBL69692	24.9 km
	KNVO	D17	DT	BL	MCALLEN, TX	KNVO 517 KW	24.9
	KCRP-CD	D17	DC	BL	CORPUS CHRISTI, TX	DTVBL48833	187.9
	KVAW	D18	DT	LIC	EAGLE PASS, TX	BLCDT20061115ABD	388.0
	KUQI	D19	DT	BL	CORPUS CHRISTI, TX	DTVBL82910	180.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
15561.7	1,230,798	15553.7	1,230,791	15541.8
10709.7	1,300,081	10701.7	1,300,081	10685.6
				1,225,186
				1,300,073
				0.00
				0.00

(in Mexico)

Undesired	Total IX	Unique IX, before	Unique IX, after
KNVO D17 DT BL	12.0	5,605	12.0
KNVO D17 DT BL	12.0	5,605	12.0
KNVO D17 DT BL	16.0	8	16.0
KNVO D17 DT BL	16.0	8	16.0

(in Mexico)

(in Mexico)

Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KNVO	D17	DT	BL	MCALLEN, TX	KNVO 517 KW	

Undesireds:	KMBH	D16	DT	BL	HARLINGEN, TX	DTVBL56079	24.3 km
	KCRP-CD	D17	DC	BL	CORPUS CHRISTI, TX	DTVBL48833	201.0
	KGBT-TV	D18	DT	BL	HARLINGEN, TX	DTVBL34457	24.9

Service area	Terrain-limited	IX-free	Percent IX
13080.0	1,241,165	13076.0	1,241,165
10874.6	1,304,538	10858.6	1,304,538
		12735.6	1,236,989
		10726.1	1,304,473
		2.60	0.34
		1.22	0.00

(in Mexico)

Undesired	Total IX	Unique IX	Prcnt Unique IX
KMBH D16 DT BL	256.3	3,911	48.0
KMBH D16 DT BL	16.1	0	0.0
KGBT-TV D18 DT BL	292.4	4,176	84.1
KGBT-TV D18 DT BL	132.5	65	116.4

(in Mexico)

(in Mexico)

(in Mexico)

(in Mexico)