

**EXHIBIT 12
HILLSBORO, TEXAS
CHANNEL 227
FILE NUMBER BNPFT 20030317BOY
FAC ID 148350**

Per DA 13 – 1675 applicant files this long form application to construct a translator located near Hillsboro, Texas. This application makes no changes that would preclude any future LPFM opportunities at the transmitter site of this translator

Channel 227 Study

Callsign	State	City	Freq	Channel	ERP_w	Class	Status	Distance_km	Sep	Clr
NEW	TX	HILLSBORO	93.7	229	140	D	APP	3.34	0	-23.71 dB
KLIF-FM	TX	HALTOM CITY	93.3	227	16500	C2	CP	87.34	0	1.33 dB
KLIF-FM	TX	HALTOM CITY	93.3	227	50000	C2	LIC	84.84	0	6.77 dB
KRMX	TX	MARLIN	92.9	225	50000	C2	LIC	69.17	0	8.20 dB
KLIF-FM	TX	HALTOM CITY	93.3	227	2900	C2	LIC	102.43	0	14.26 dB
KGSR	TX	CEDAR PARK	93.3	227	100000	C	LIC	168.86	0	15.93 dB
KRMX	TX	MARLIN	92.9	225	12700	C2	LIC	69.17	0	15.24 dB
K226BM	TX	CLEBURNE	93.1	226	100	D	LIC	48.86	0	19.46 dB
890921NA	TX	HALTOM CITY	93.3	227	0	C2	USE	96.23	0	24.85 dB
KWOW	TX	CLIFTON	104.1	281	21000	C2	LIC	40.5	15	25.5
KNOR	TX	KRUM	93.7	229	43000	C0	LIC	165.52	0	27.40 dB
KNOR	TX	KRUM	93.7	229	55000	C0	LIC	165.52	0	27.48 dB
KSTV-FM	TX	DUBLIN	93.1	226	7000	C3	LIC	117.33	0	28.15 dB
KBPC	TX	CROCKETT	93.5	228	50000	C2	LIC	142.66	0	30.26 dB
K227AI	TX	COLLEGE STATION	93.3	227	250	D	CP	179.61	0	32.00 dB
KNOR	TX	KRUM	93.7	229	20000	C1	LIC	165.52	0	31.88 dB
K227AI	TX	COLLEGE STATION	93.3	227	250	D	LIC	179.61	0	31.13 dB
KTYL-FM	TX	TYLER	93.1	226	82000	C1	LIC	200.58	0	34.58 dB
KLBJ-FM	TX	AUSTIN	93.7	229	97000	C	LIC	202.36	0	35.96 dB
KIVY-FM	TX	CROCKETT	92.7	224	50000	C2	LIC	171.84	0	36.28 dB
KGSR	TX	CEDAR PARK	93.3	227	0	C	USE	168.86	0	36.52 dB
KNOR	TX	KRUM	93.7	229	5300	C1	LIC	165.52	0	36.49 dB
NEW	TX	WACO	93.7	229	90	D	APP	69.17	0	37.38 dB

NEW translator Hillsboro, Texas ch 229, BNPFT 20130810AAX, Antonio Delgado, is shown to have overlap that could cause interference. A study was preformed to determine if there is interference between this application and the Delgado application. Both applications are second channel adjacent to each other.

This is the calculation of the Delgado application F(50,50) contour at the transmitter site of the Tellez application. Maintaining the 40 dbu ratio to the interfering F(50,10), the value becomes 119.8 dbu. This contour has zero population (2010 Census).

Results -- FM and TV Propagation Curves Calculations

Results of Calculation

Field Strength = 79.759 dBu

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For input data from Pages 1 and 2:

ERP entered = 0.140 kW

HAAT entered = 88.00 meters

Distance entered = 3.300 kilometers

Find the Field Strength, Given a Distance to the Contour

F(50,50) curves for service contours

FM and NTSC analog TV Channels 2 through 6

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Comments on this program may be referred to [Dale Bickel](#)

This is the calculation of the Tellez application F(50,50) contour at the transmitter site of the Delgado application. Maintaining the 40 dbu ratio to the interfering F(50,10), the value becomes 116.6 dbu. This contour has zero population (2010 Census).

Results -- FM and TV Propagation Curves Calculations

Results of Calculation

Field Strength = 76.631 dBu

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For input data from Pages 1 and 2:

ERP entered = 0.050 kW

HAAT entered = 104.80 meters

Distance entered = 3.300 kilometers

Find the Field Strength, Given a Distance to the Contour

F(50,50) curves for service contours

FM and NTSC analog TV Channels 2 through 6

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Both applications do not cause any interference to each other.

Exhibit 13 overlap 74.1204 compliance.

Environmental Statement: The RFE calculated with FMMODEL is $0.2 \mu\text{W}/\text{cm}^2$ or 0.1% of the maximum allowable for uncontrolled public access limit of $200 \mu\text{W}/\text{cm}^2$. Applicant will reduce power or cease operations whenever there are personnel at the site or working on the tower.