

FM Commander @V-Soft Communications® Contour-to-Contour Study

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NGDC 30 SEC DATA: 03-06-10 - Zone 2

N. Lat. 30 19 24.0 373 M COR Contours are detailed Austin TX k287ay mod.vsf
W. Lng. 97 48 06.0 0.075 kW CH 287, 105.3 D D 154.4 M HAAT Job: 03-08-10

Call	Type	Ch	Location		Azi	Dist	In	Out
KTXX-FM	LIC	285A	Dripping Spring	TX	235.6	24.6	12.4	-5.1*
KTXX-FM	CP-Z	285A	Bee Cave	TX	229.3	12.6	-0.1	-19.2*
K286AK	LIC	286D	Round Rock	TX	25.2	24.3	2.6	0.3
K287AY	CP	287D	Austin	TX	0.0	0.0	44.0	46.2
KSMG	LIC	287C	Seguin	TX	201.1	124.5	-73.3*	3.2
K288FJ	CP	288D	Bastrop	TX	115.3	53.6	20.1	19.7
K288FJ	LIC	288D	Bastrop	TX	115.3	53.6	33.8	28.5
KUSJ	LIC	288C2	Harker Heights	TX	12.5	75.2	-10.7	8.2
KFMK	LIC-N	290C2	Round Rock	TX	98.3	0.2	-17.1*	-50.4*

End of Screen List

**2nd / 3rd Adj Channel
Overlap
U/D = +40 dB**

In: is kilometers of overlap "received" by translator app
(the translator app is allowed to receive interference)

Out: is kilometers of overlap "**caused**" by translator app
(the translator app is not allowed to cause overlap to co-channel or 1st adjacent stations)

ASSUMED ERP = 75 WATTS

**The only facilities which receive paper interference
are 2nd & 3rd adjacent channel operations of
KTXX & KFMK.**

**Near the proposed translator site, the contour of KTXX Lic is 62.5 dBu.
This translates into an interference contour of 102.5 dBu
which extends 0.456 km or 1,495 feet.**

**As will be shown, use of a 3 bay 0.9 lambda spaced antenna
avoids interference within 30 feet of the ground.**

FIGURE 1
FM Translator Contour Overlap Analysis - Ch. 287
CP Mod to Lower Antenna Height to 410' AGL



Mullaney
Engineering, Inc.

K287AY - 75 Watts
Fac ID: 156299 - Austin, TX
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