

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

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NGDC 30 SEC DATA: 12-09-09 - Zone 2

N. Lat. 36 04 28.0 445 M COR Contours are detailed Jefferson City TN w222-hd5.vsf
W. Lng. 83 34 56.0 0.175 kW DA CH 222. 92.3 D 111.1 M HAAT Job: 12-09-09

Call	Type	Ch	Location		Azi	Dist	In	Out	
WUOT	LIC	220C	Knoxville	TN	255.5	34.8	17.8	-50.6*	2nd Adj
W222AN	LIC	222D	Jefferson City	TN	0.0	0.0	28.1*	-18.4*	
WDEF-FM	LIC	222C0	Chattanooga	TN	236.9	189.1	-6.9*	87.3	
WYGE	LIC-Z	222C2	London	KY	343.1	124.9	-6.2*	69.0	
WNPC-FM	LIC	225A	White Pine	TN	104.6	33.7	21.6	0.1	Close
WESC-FM	LIC	223C	Greenville	SC	139.5	136.3	0.1	39.6	
W223BN	CP	276D	Kodak	TN	179.6	10.8	9.5R	1.3M	
W222BA	CP	222D	Karns	TN	256.5	33.4	3.0	7.5	
W223BN	LIC-D	223D	Sevierville	TN	195.0	30.2	4.6	14.0	
W222BA	LIC	222D	Karns	TN	254.7	45.4	17.5	20.4	

End of Screen List

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 interference to co-channel or 1st adjacent stations)

The only potential for interference "caused" is to WUOT on Ch. 220C.
They are on the 2nd lower adjacent channel and have a 82 dBu signal at W222AN's site.
Interference is presumed to be caused within a +40 dB U/D or the 122 dBu F(50,10) contour.
This contour extends 0.074 km or 243 feet from the antenna.

See Topo Map (Fig 3-A) & Satellite Photo (Fig 3-B)

The clearance to WNPC is just 0.1 km. However, it should be noted that this facility is co-owned by Bristol Broadcasting and, thus, Bristol has no objection.

FIGURE 1 - FM Translator Contour Overlap Analysis

increase ERP to 175 w at lower antenna height
from existing licensed site



Bristol Broadcasting - W222AN - Jefferson City, TN
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