

Interference Analysis Exhibit

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According to 47 C.F.R. §74.1204(a), translators, such as the one proposed herein, are required to protect all existing FM stations from interference due to overlap of their protected contour with the interfering contour of the new station. To determine the best operating frequency for the proposed translator, a frequency search was performed (next page). The numbers in the column labeled “*OUT*” are of relevance as an indication of overlap or close spacing caused by the proposed translator, there is no requirement that interfering contours from the existing station (labeled “*IN*”) not intersect the service contour of the new translator.

Page 2 of this exhibit demonstrates that the proposed translator’s F(50,10) interfering contour would not overlap that of any authorized on-the-air station and is complete compliance with the C.F.R. §74.1204. Additionally, pages 4 and 5 this exhibit demonstrates that the proposed translator modification can be filed as a minor modification because it “provides 1 mV/m service to some portion of its previously authorized 1 mV/m service area” (§74.1233).

As seen on Page 2 of this exhibit, the proposed translator fully complies with C.F.R. 47 §74.1205 as with respect to WDSU TV6.

I.F. Analysis

Page 2 of this exhibit also demonstrates that the F(50,10) interfering contour of the proposed translator does not overlap the F(50,50) protected contours of any stations which are 53 or 54 channels away.

Interference Exhibit - Page 2

Hattiesburg Mississippi

Inteference Analysis

REFERENCE CH# 216D - 91.1 MHz, Pwr= 0.013 kW, HAAT=109.8M, COR= 194 M DISPLAY DATES
 31 18 26 N Average Protected F(50-50)= 7.3 km DATA 04-25-02
 89 24 47 W Ave. F(50-10) 40 dBu= 24.6 54 dBu= 10.4 80 dBu= 1.9 100 dBu= .3

CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*
CITY	STATE		<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap in km)	

216D	*W216BA	LIC VN	78.7	12.21	31 19 43	0.080	72	5.3	-12.35	-17.13
Hattiesburg	MS		258.7	BLFT19980518TF	89 17 14	-17	17.4	Pensacola Christian Colleg		
> Reference HAAT at 78.7°= 133.9 M, Pwr= 000.013 kW, Pro. Dist. = 7.16 km, Int Dist. = 24.02 km										
Translator for WPCS, Pensacola, FL.- Vertical Polarization Only										

215C1	*WATP.A	APP DCN	24.5	57.89	31 46 54	99.000	233	59.7	-38.45	-11.64
Laurel	MS		204.5	BPED19980713ME	89 09 31	160	89.3	American Family Associatio		
> Reference HAAT at 24.5°= 127.7 M, Pwr= 000.013 kW, Pro. Dist. = 7.0 km, Int Dist. = 9.86 km										

215C3	*981013	APP DVN	280.3	36.47	31 21 55	15.000	165	28.0	-14.07	0.08
Columbia	MS		100.3	BPED19981013MA	89 47 25	62	44.6	Pensacola Christian Colleg		
> Reference HAAT at 280.3°= 92.5 M, Pwr= 000.013 kW, Pro. Dist. = 5.98 km, Int Dist. = 8.41 km										
Vertical Polarization Only										

219C1	WAOY	LIC ZCN	154.8	73.44	30 42 29	78.000	374	72.2	56.17	0.95
Gulfport	MS		334.8	BLFD19971029KA	89 05 06	332	10.0	American Family Associatio		
From Saucier, MS.										

216D	W216BV	CP C	238.7	85.26	30 54 25	0.038	120	4.4	63.94	56.26
Franklinton	LA		58.7	BNPFT20000114AAO	90 10 34	3	14.0	Family Worship Center Chur		

216D	W218BV	LIC HN	62.5	85.63	31 39 36	0.010	207	6.8	55.65	54.25
Waynesboro	MS		242.5	BLFT19971224TD	88 36 41	136	22.7	Calvary Chapel Of Twin Fal		
Translator for KAWZ, Twin Falls, ID										

269A	ALLO	VAC	107.1	29.89	31 13 41	6.000	0	28.3	5.5R	24.4M
New Augusta	MS		287.1		89 06 47	100	0.0			
A Filing Window for this Channel will be Addressed by the Commission in a Subsequent Order.										

215D	W215AM	LIC CN	266.1	42.02	31 16 50	0.038	124	5.9	26.23	25.72
Columbia	MS		86.1	BLFT19960216TA	89 51 12	54	8.5	American Family Associatio		
Translator for WAFR, Tupelo, MS										

06Z3C	WDSU	LI CN	199.2	159.24	29 57 01	100.000	295	102.1	57.2R	102.1M
New Orleans	LA		19.2	BMLCT19820420KE	89 57 2					

Interference Analysis Exhibit

Guide to Interpretation of Interference Checks on Page 2 of Exhibit E

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The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "***IN***" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights along the azimuths between the reference station and the database station are used and vice versa. The column labeled "*** OUT ***" shows the distance of kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing interference.

Under the "**BEARING**" column, the first row of numbers indicate the bearings from true north of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "**INT**" and "**PRO**" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "**IN**" and "**OUT**" columns change their significance. The letter "**R**" stands for the minimum required distance in kilometers, while the letter "**M**" in the next column follows the available clear space separation in kilometers or "**Margin**". This same procedure is used for all Canadian and Mexican spacing. Minimum separation distances were taken from Sec 73.207 of the rules as amended. Canadian separation distances were derived from the "Canadian/American Working Agreement". The first three letters of the "**TYPE**" column identify the current FCC status of the stations. The fourth letter will be a "**D**" or "**Z**" (Sec.73.215) if the facility is directional. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a '**Y**' if the antenna uses beam tilt.

W216BA

BLFT19980518TF

Latitude: 31-19-43 N

Longitude: 089-17-14 W

Power: 0.08 kW

Channel: 216

Frequency: 91.1 MHz

AMSL Height: 72.0 m

Elevation: 47.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: Longley/Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0

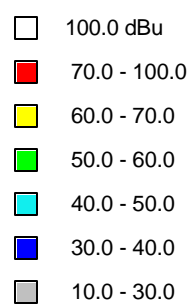
Receiver Ht AG: 9.1 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

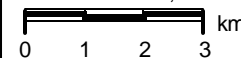
Pensacola Christian College, Inc.

PROP

Hattiesburg W216BA

Petal

Scale 1:125,000



V-Soft Communications ® ©

W216BA

BLFT19980518TF

Latitude: 31-19-43 N

Longitude: 089-17-14 W

Power: 0.08 kW

Channel: 216

Frequency: 91.1 MHz

AMSL Height: 72.0 m

Elevation: 47.0 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: Longley/Rice

Climate: Cont temperate

Conductivity: 0.0050

Dielec Const: 15.0

Refractivity: 311.0

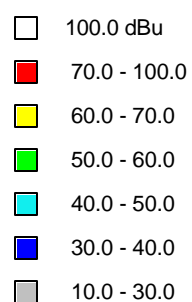
Receiver Ht AG: 9.1 m

Receiver Gain: 0 dB

Time Variability: 50.0%

Sit. Variability: 50.0%

ITM Mode: Broadcast

Pensacola Christian College, Inc.

Scale 1:15,625

