

Gore, Virginia

Exhibit 16

Contour Overlap Index

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Exhibit 16

Complete Allocation Study

According to 47 C.F.R. §73.509, an application for a new or modified NCE-FM station other than a class D station will not be accepted if the proposed operation would involve overlap of signal strength contours.

To determine the best operating frequency for the proposed NCE radio station, a frequency search was performed (next page).

The following is a list of the adjacent stations or applications that are identified in this exhibit.

<u>Call Sign</u>	<u>Channel</u>	<u>City of License</u>	<u>Reference Number</u>	<u>Plot Page</u>
WCSP-FM	211B	Washington, DC	BLED19980127KA	4
WPER	210B	Washington, DC	BLED20060327AIO	5
WAUA	208B	Petersburg, WV	BLED20040510ABJ	6
WCRH	213B	Williamsport, MD	BLED19820129AE	7
WPVA	211B1	Waynesboro, VA	BLED19990723KA	8
WAIJ	212B	Grantsville, MD	BLED19841001DW	9
WMRA	214B	Harrisonburg, VA	BLED19950105KE	10
WZWA-AP	211C2	Clarksburg, WV	BPED20070907AEI	11
WSHC	209A	Shepherdstown, WV	BLED19921001KD	12

Page 2 of this exhibit is a detailed separation report of all adjacent stations that correspond with the table above. Page 3 is a guide to interpreting the report on page 2. Pages 4 – 12 of this exhibit are plots showing the required separation of §73.509.

I.F. Analysis

Page 2 of this exhibit also demonstrates that the proposed station's interfering contour will not overlap with the protected contours of any stations which are 53 and 54 channels away.

Pensacola Christian College, Inc.

REFERENCE
39 10 58.0 N.
78 23 23.0 W.

CH# 211A - 90.1 MHz, Pwr= 0.035 kW, HAAT= 463.4 M, COR= 806 M
Average Protected F(50-50)= 17.05 km

DISPLAY DATES
DATA 10-12-07
SEARCH 10-12-07

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT (M)	INT(km) COR (M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
211A Gore	AP1778	APP	DVX VA	0.0 0.0	0.00 BNPED20000218AAF	39 10 58.0 78 23 23.0	0.035 463	55.6 806	16.2 Pensacola Christian Colleg	-71.80*	-71.81*
211B Washington	WCSP-FM	LIC	DCN DC	101.3 282.2	120.47 BLED19980127KA	38 57 44.0 77 01 36.0	36.000 173	106.2 234	39.7 National	1.59 Cable Satellite C	34.75
210B Culpeper	WPER	LIC	DCX VA	137.0 317.3	76.52 BLED20060327AIO	38 40 42.0 77 47 18.0	41.000 127	60.4 256	38.4 Positive	3.15 Alternative Radio	18.11
208B Petersburg	WAUA	LIC	_CX WV	271.9 91.3	76.54 BLED20040510ABJ	39 12 07.0 79 16 31.0	10.000 322	5.8 1173	62.6 West Virginia	54.77 Educational	13.57
213B Williamsport	WCRH	LIC	_CN MD	34.4 214.6	64.30 BLED19820129AE	39 39 34.0 77 57 56.0	10.000 268	5.0 463	50.1 Cedar Ridge	44.24 Children's Hom	13.93
211B1 Waynesboro	WPVA	LIC	_C_ VA	198.3 18.0	135.76 BLED19990723KA	38 01 16.0 78 52 38.0	2.500 293	97.6 723	37.8 Positive	22.85 Alternative Radio	44.42
212B Grantsville	WAIJ	LIC	DEN MD	314.1 133.6	83.67 BLED19841001DW	39 42 14.0 79 05 31.0	10.000 171	43.2 922	28.7 He's Alive, Incorporated	23.84	29.80
06Z1C Johnstown	WJACTV	LI	_HN PA	339.2 158.8	141.41 BLCT19880502KE	40 22 17.0 78 58 58.0	70.800 341	868	105.2 Wpxi, Inc.	115.9R	25.5M
214B Harrisonburg	WMRA	LIC	_CN VA	215.4 35.0	84.17 BLED19950105KE	38 33 50.0 78 57 00.0	10.500 318	5.5 852	56.7 James Madison University B	69.46	27.07
211C2 Clarksburg	WZWA	APP	DCX WV	278.2 97.2	142.33 BPED20070907AEI	39 21 16.0 80 01 27.0	50.000 90	92.5 509	28.0 Maranatha Broadcasting, In	34.03	60.94
209A Shepherdstown	WSHC	LIC	_CN WV	61.0 241.4	57.49 BLED19921001KD	39 25 53.0 77 48 18.0	0.950 -3	1.6 149	10.0 Shepherd College Board Of	42.36	47.21
06 1 Weston	WDTV-D	GRR	DHN WV	266.7 85.4	176.35 BPRM20001002ADW	39 04 29.0 80 25 28.0	10.000 253	634	67.3 Withers Broadcasting Compa	77.7R	98.6M
06 1C Weston	WDTV-D	CP	DHY WV	266.7 85.4	176.35 BPCDT19991029AFO	39 04 29.0 80 25 28.0	10.000 248	630	59.1 Withers Broadcasting Compa	69.5R	106.9M
06 C Weston	WDTV-D	ST	_N WV	266.7 85.4	176.35 BDSTA20050614ADO	39 04 29.0 80 25 28.0	0.100 193	576	28.2 Withers Broadcasting Compa	38.6R	137.7M

Terrain database is USGS 03 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
ERP and HAAT are on direct line to and from reference station.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.

Exhibit 16

Guide to Interpretation of Interference Checks on Page 2

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 60 dBu 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 and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "*** OUT ***" shows the distance in 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 overlap interference.

Under the "**AZIMUTH**" 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.

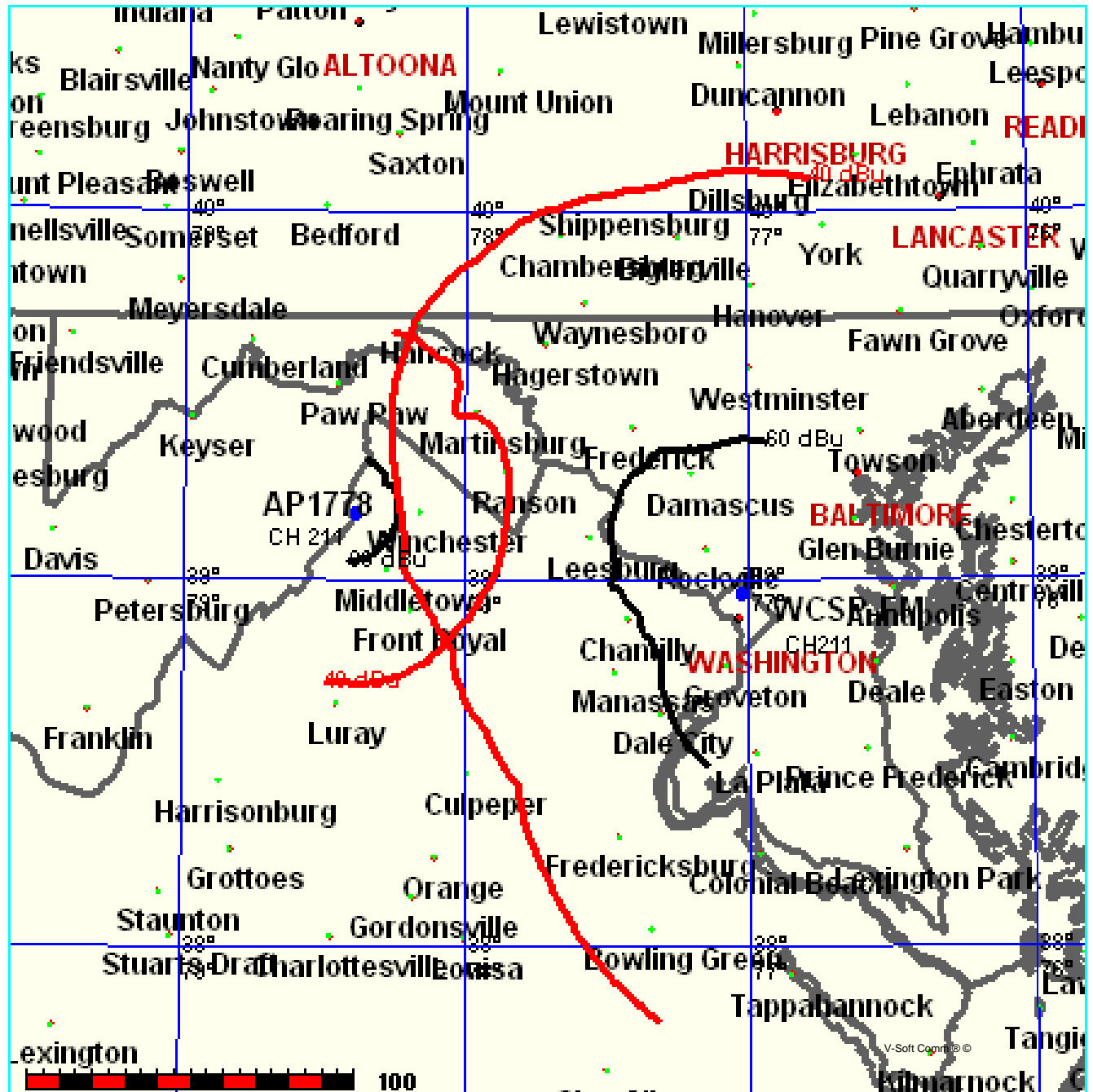
The columns labeled "**INT**" and "**PRO**" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

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. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada 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 a C, E, H or V depending on the type of antenna polarization. The sixth letter will be a "**Y**" if the antenna uses beam tilt.

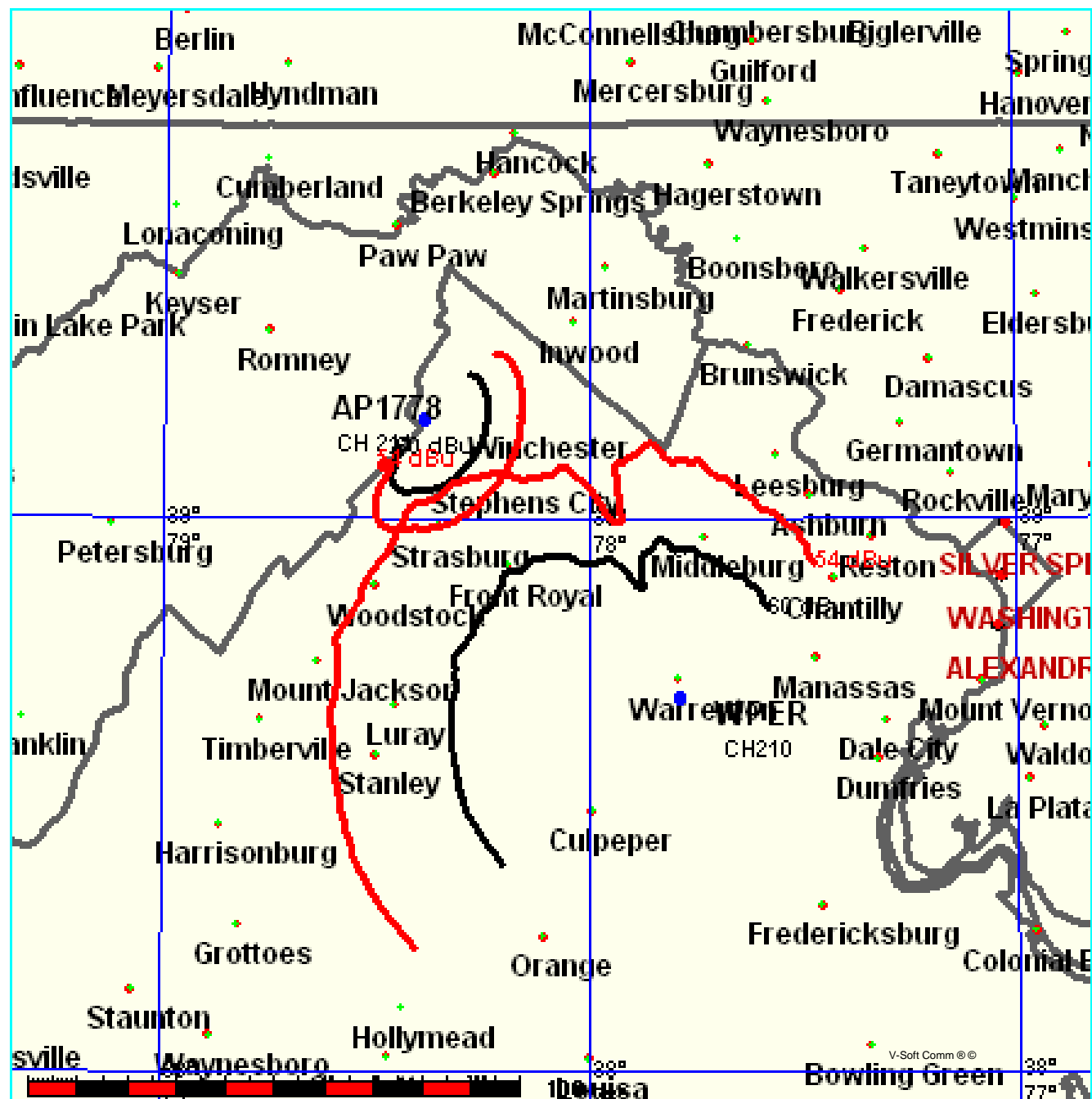
FMCommander Single Allocation Study
10-12-2007

AP1778 CH 211 A	WCSP-FM CH 211 B	BLED19980127KA
0.035 kW 806 M COR DA	36.0 kW, 234 M COR DA	
Prot. = 60 dBu	Prot. = 60 dBu	
Intef. = 40 dBu	Intef. = 40 dBu	



FMCommander Single Allocation Study
10-12-2007

AP1778	CH 211 A	WPER	CH 210 B	BLED20060327AIO
0.035 kW	806 M COR DA	41.0 kW,	256 M COR DA	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 54 dBu		Intef. = 54 dBu		



FMCommander Single Allocation Study
10-12-2007

AP1778	CH 211 A	WAUA	CH 208 B	BLED20040510ABJ
0.035 kW	806 M COR DA	10.0 kW	1173 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 100 dBu		Intef. = 100 dBu		



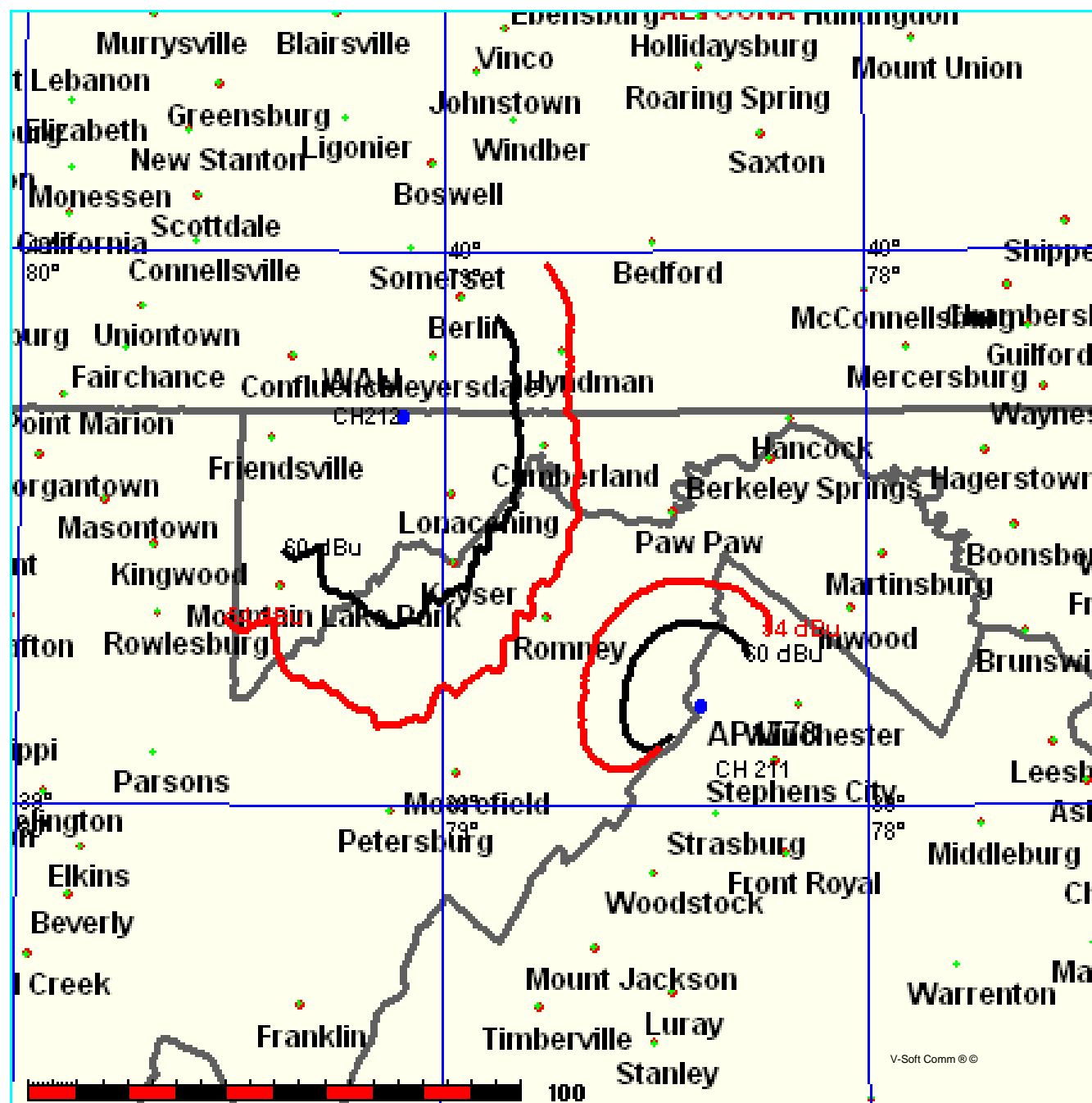
FMCommander Single Allocation Study
10-12-2007

AP1778	CH 211 A	WCRH	CH 213 B	BLED19820129AE
0.035 kW	806 M COR DA	10.0 kW,	463 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 100 dBu		Intef. = 100 dBu		



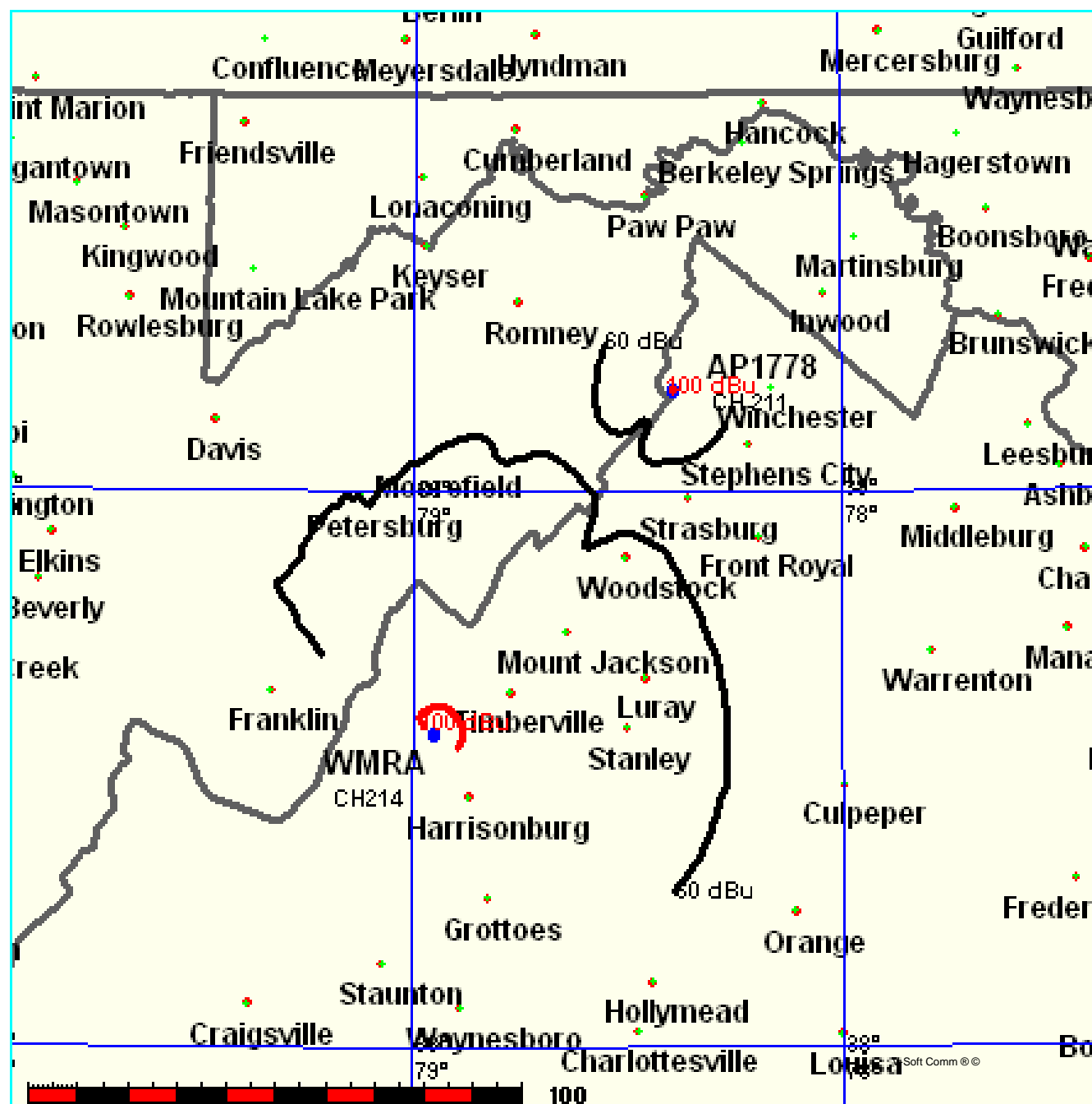
FMCommander Single Allocation Study
10-12-2007

AP1778	CH 211 A	WAIJ	CH 212 B	BLED19841001DW
0.035 kW	806 M COR DA	10.0 kW	922 M COR DA	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 54 dBu		Intef. = 54 dBu		



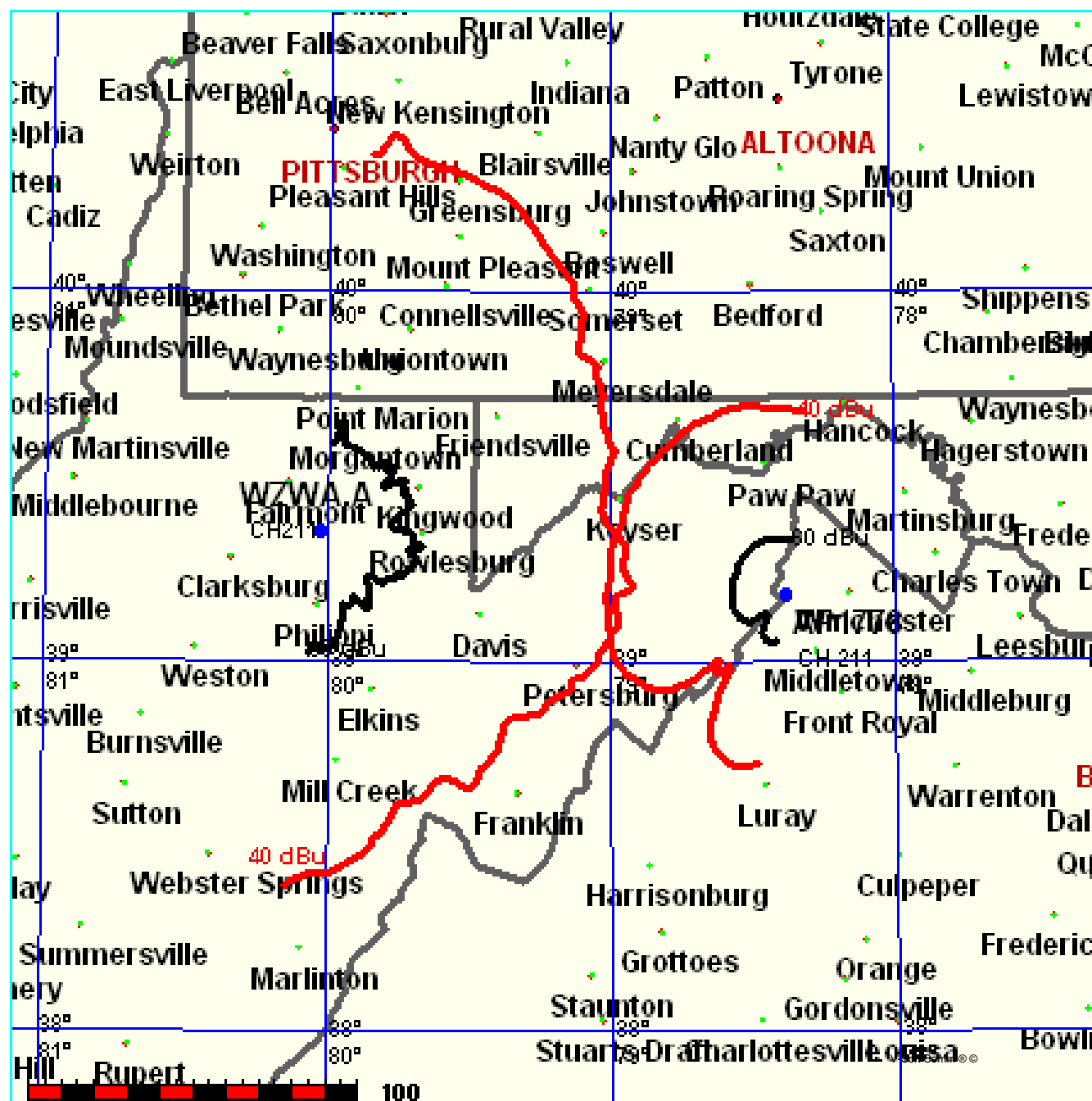
FMCommander Single Allocation Study
10-12-2007

AP1778	CH 211 A	WMRA	CH 214 B	BLED19950105KE
0.035 kW	806 M COR DA	10.5 kW,	852 M COR	
Prot. = 60 dBu		Prot. = 60 dBu		
Intef. = 100 dBu		Intef. = 100 dBu		



FMCommander Single Allocation Study
10-12-2007

AP1778 CH 211 A	WZWA.A CH 211 C2 BPED20070907AEI
0.035 kW 806 M COR DA	50.0 kW, 509 M COR DA
Prot. = 60 dBu	Prot. = 60 dBu
Intef. = 40 dBu	Intef. = 40 dBu



FMCommander Single Allocation Study
10-12-2007

AP1778 CH 211 A
0.035 kW 806 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu

WSHC CH 209 A BLED19921001KD
0.95 kW, 149 M COR
Prot. = 60 dBu
Intef. = 100 dBu

