

Muskegon, Michigan

Contour Overlap Index

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Pensacola Christian College

Pensacola Christian College, Inc.
Muskegon MI

REFERENCE CH# 214D - 90.7 MHz, Pwr= 0.019 kW, HAAT= 53.0 M, COR= 244 M DISPLAY DATES
43 16 39.0 N. DATA 07-02-08
86 14 45.0 W. Average Protected F(50-50)= 4.99 km SEARCH 07-02-08
Omni-directional

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
215D Muskegon	W215AS	LIC _VN MI		0.0 0.0	0.00 BLFT19980123TA	43 16 39.0 86 14 45.0	0.019 53	6.0 244	4.3 Pensacola Christian Colleg	-10.33*	-10.33*
Translator for WPCS, Pensacola, FL Vertical Polarization Only											
212C1 Twin Lake	WBLV	LIC _CN MI		28.4 208.5	34.45 BLED19901002KB	43 33 00.0 86 02 34.0	100.000 185	8.3 427	64.1 Blue Lake Fine Arts Camp	21.97	-30.00*<
06Z1C Milwaukee	WITI	LI _N WI		261.7 80.6	135.85 BLCT19990129KT	43 05 26.0 87 53 50.0	100.000 305	0.3 511	53.8 Fox Television Stations, I	133.5R	2.4M
214B Berrien Springs	WAUS	LIC _CN MI		183.4 3.3	146.42 BLED19920424KA	41 57 42.0 86 21 02.0	50.000 150	137.8 366	52.3 Andrews Broadcasting Corp.	3.41	77.28
217B Grand Rapids	WCSG	LIC DCN MI		137.6 318.0	72.26 BLED19910801KA	42 47 46.0 85 38 58.0	37.000 174	6.2 400	53.8 Cornerstone University	61.26	18.16
214B Delafield	WHAD	LIC _CX WI		261.7 80.2	176.77 BLED20030129AIT	43 01 42.0 88 23 32.0	72.000 208	152.9 487	60.3 State Of Wisconsin - Educa	18.58	99.25
214D Walker	W214AY	LIC _C_ MI		132.2 312.5	49.97 BMLFT20060912ADH	42 58 31.0 85 47 28.0	0.013 116	22.6 326	6.8 Calvary Chapel Of Twin Fal	22.62	27.95
215B1 Belting	WSLI	CP DVX MI		105.4 286.0	78.48 BMPED20070329AMP	43 05 12.0 85 18 59.0	11.500 76	40.6 333	25.9 Superior Communications	33.16	45.93
214D Rogers Heights	W220CW	APP _C_ MI		57.6 238.1	74.56 BPFT20080616ADL	43 38 01.0 85 27 54.0	0.100	18.6 294	5.6 Great Lakes Community Broa	51.51	54.79
213B East Lansing Grandfathered at 87. kw @ 273 M	WKAR-FM	LIC _EY MI		112.6 293.9	162.48 BLED19861204KC	42 42 08.0 84 24 51.0	87.000 273	101.3 541	69.5 Michigan State University	56.43	86.35
216C1 Cadiillac	WOLW	LIC DEN MI		20.9 201.2	118.91 BLED19880502KC	44 16 33.0 85 42 49.0	50.000 213	7.7 560	61.7 Northern Christian Radio,	107.20	56.90

Terrain database is USGS 03 SEC Distance + R = 73.215 or FCC Spacings in KM, Distance + M = Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = . With 3rd Adj Channels.
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.
"<" = Contour Overlap

Exhibit 12

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. The list was compiled using FM Cont by V-Soft.

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. 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.

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.

Exhibit 12

Overlap Requirements

The 60Dbu contour of W215AS is completely within the 60 Dbu contour of third adjacent WBLV. Rule 74.1204 part 3 states the proposed translator will use the 100 Dbu contour for desirable/undesirable calculations. Because the F(50,10) 100 dBu interference contour of the proposed translator creates a theoretical interference zone only in an unpopulated area, the Commission may properly grant the translator construction permit.

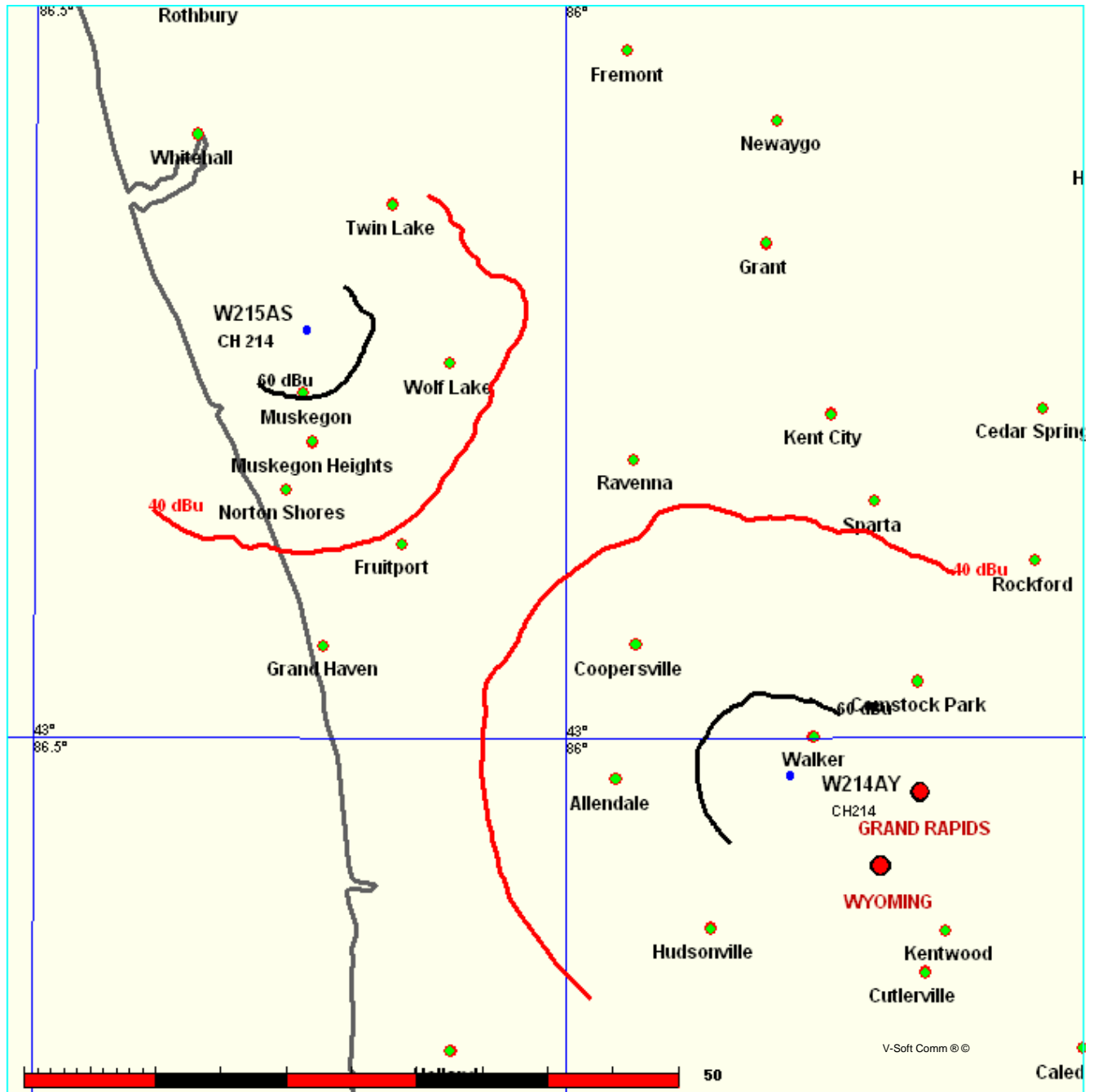
The current outgoing interference contour of the W215AS translator to third adjacent WBLV is 30.00Km. The proposed change to channel 214 of translator W215AS will result in no change to the outgoing contour. The outgoing interference contour to now second adjacent WBLV will still be 30.00Km.

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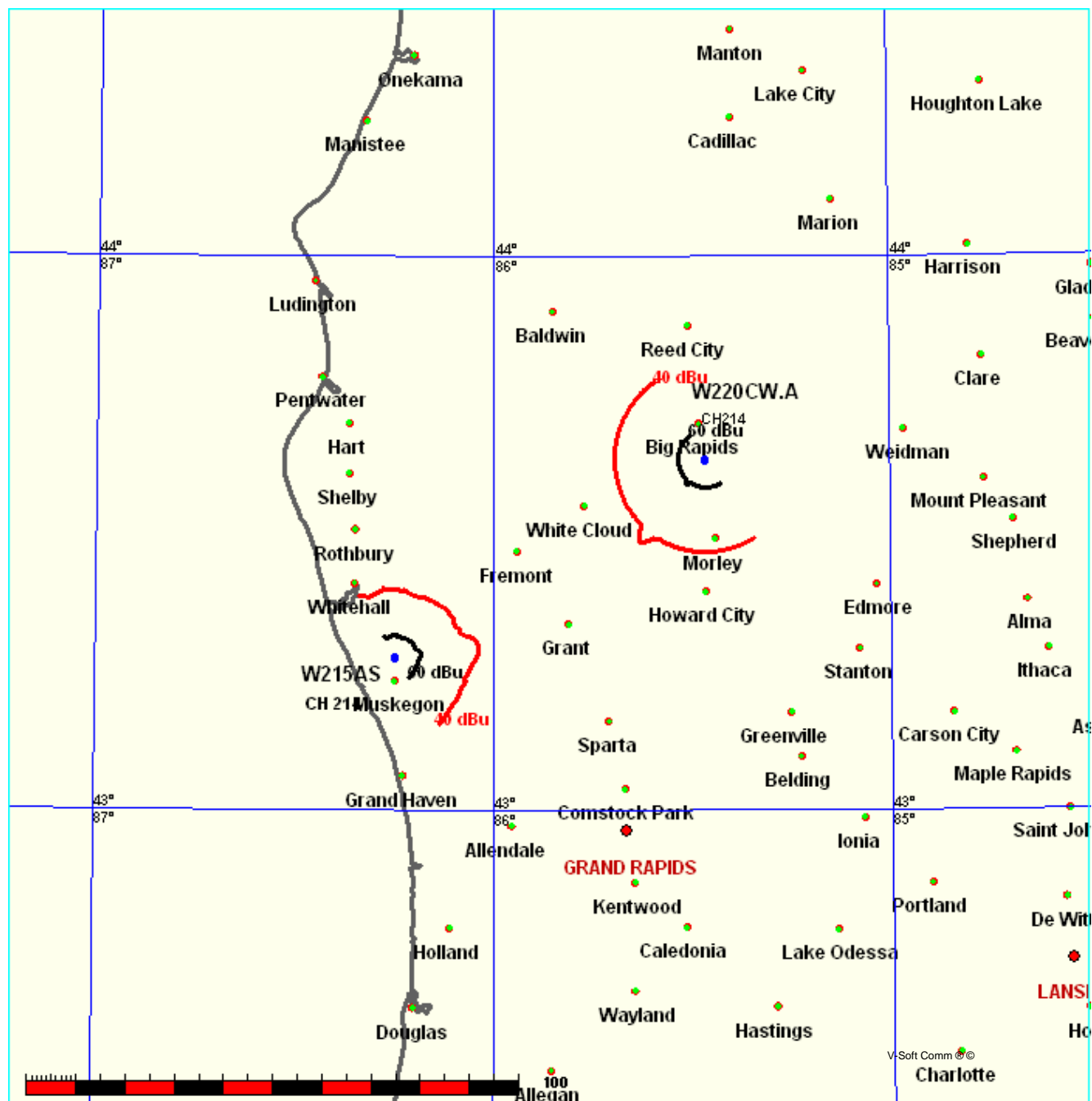
W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 40 dBu

W214AY CH 214 D BMLFT20060912ADH
0.013 kW, 326 M COR
Prot. = 60 dBu
Intef. = 40 dBu



W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 40 dBu

W220CW.A CH 214 D BPFT20080616ADL
0.1 kW, 294 M COR
Prot. = 60 dBu
Intef. = 40 dBu

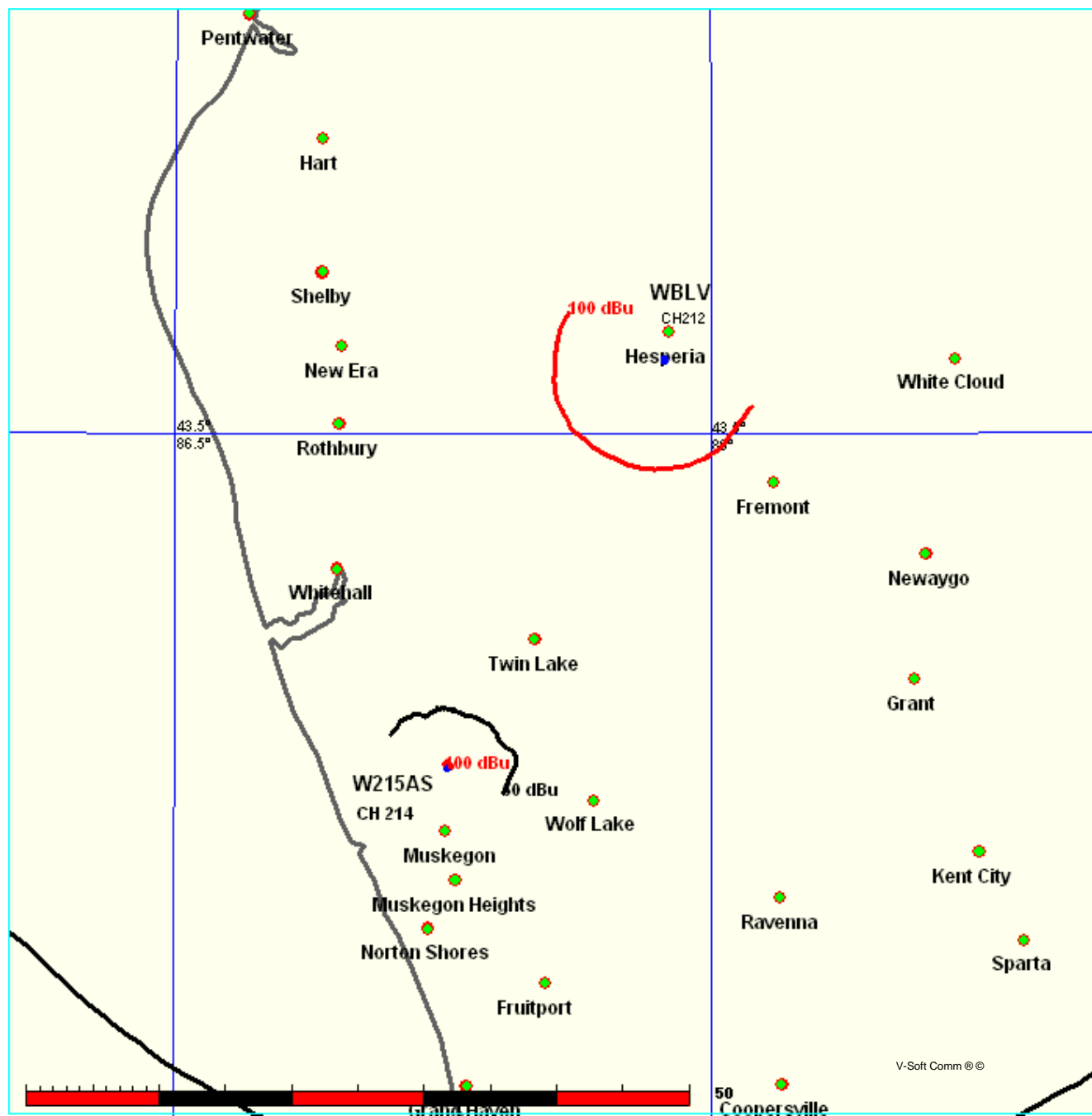


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W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 100 dBu

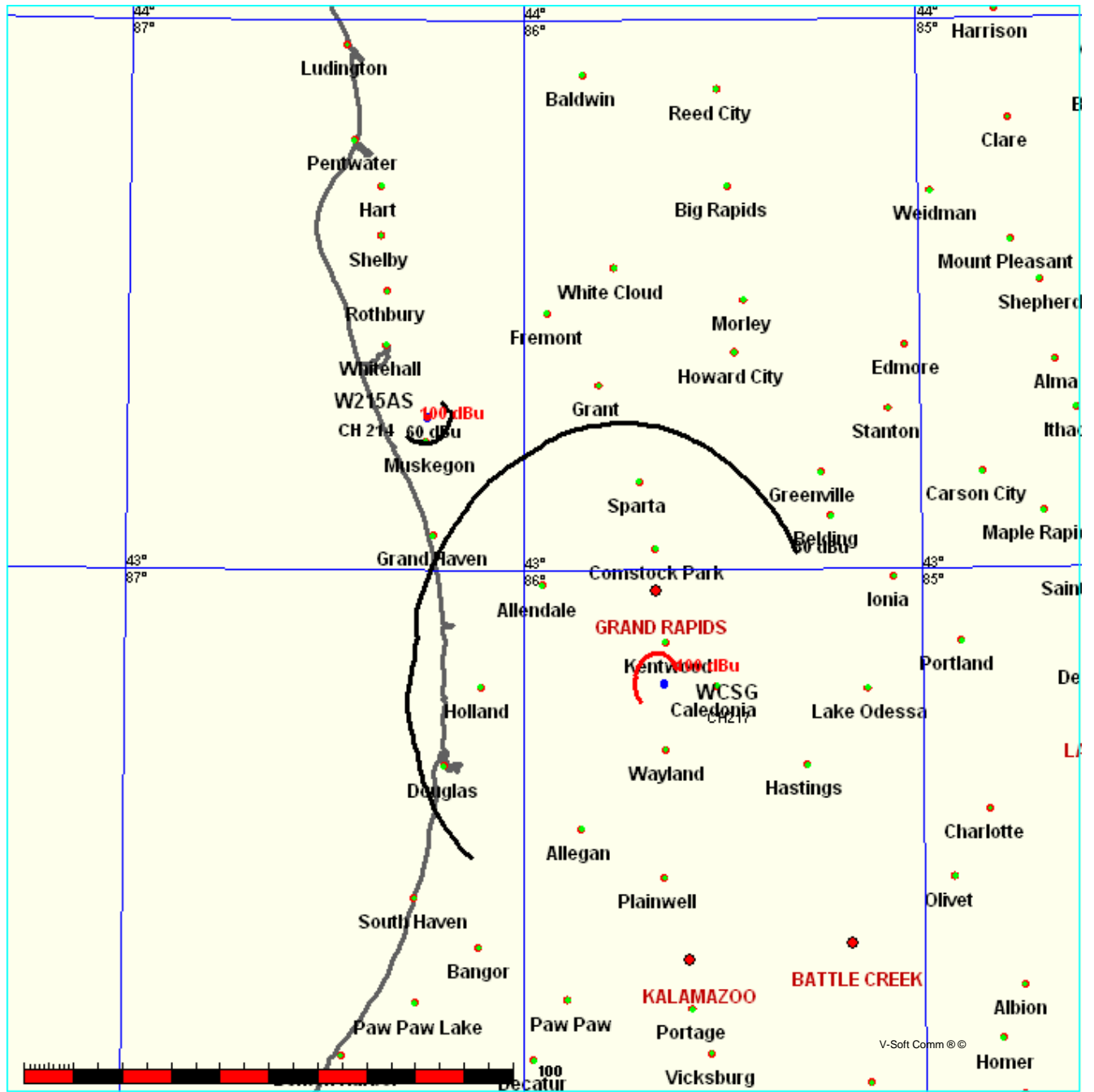
WBLV CH 212 C1 BLED19901002KB
100.0 kW, 427 M COR
Prot. = 60 dBu
Intef. = 100 dBu



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W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 100 dBu

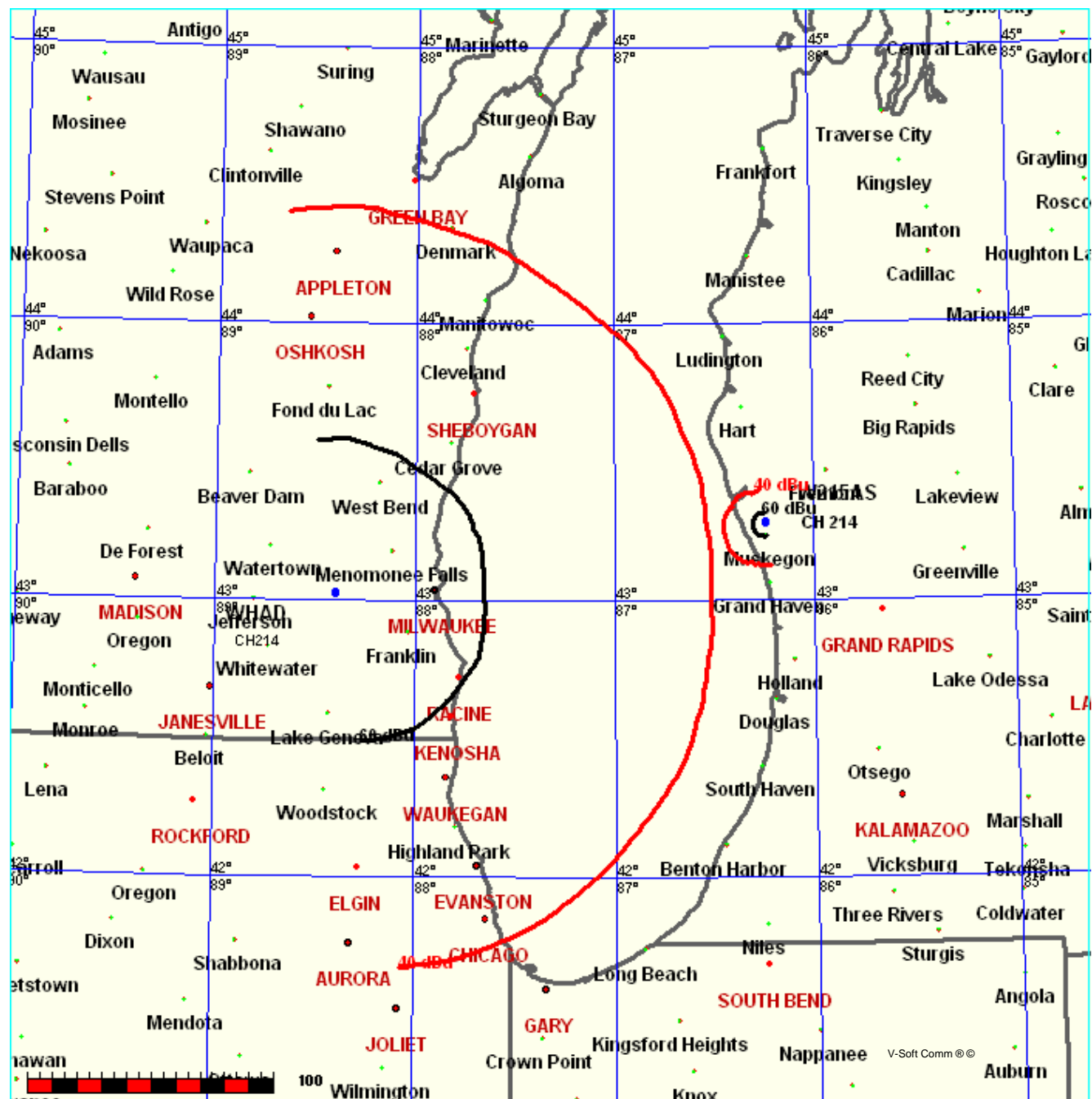
WCSG CH 217 B BLED19910801KA
37.0 kW, 400 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu



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W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 40 dBu

WHAD CH 214 B BLED20030129AIT
72.0 kW, 487 M COR
Prot. = 60 dBu
Intef. = 40 dBu

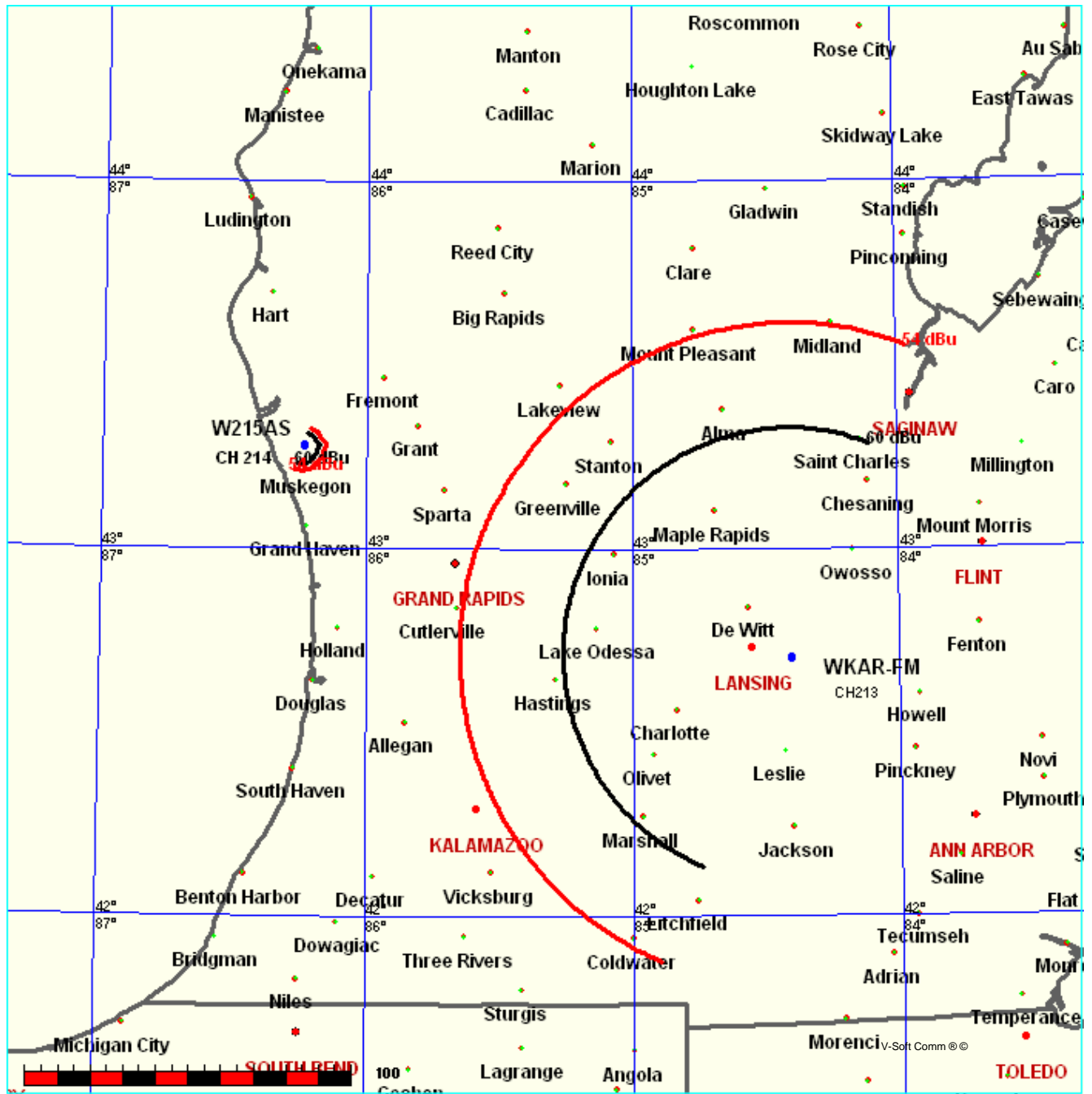


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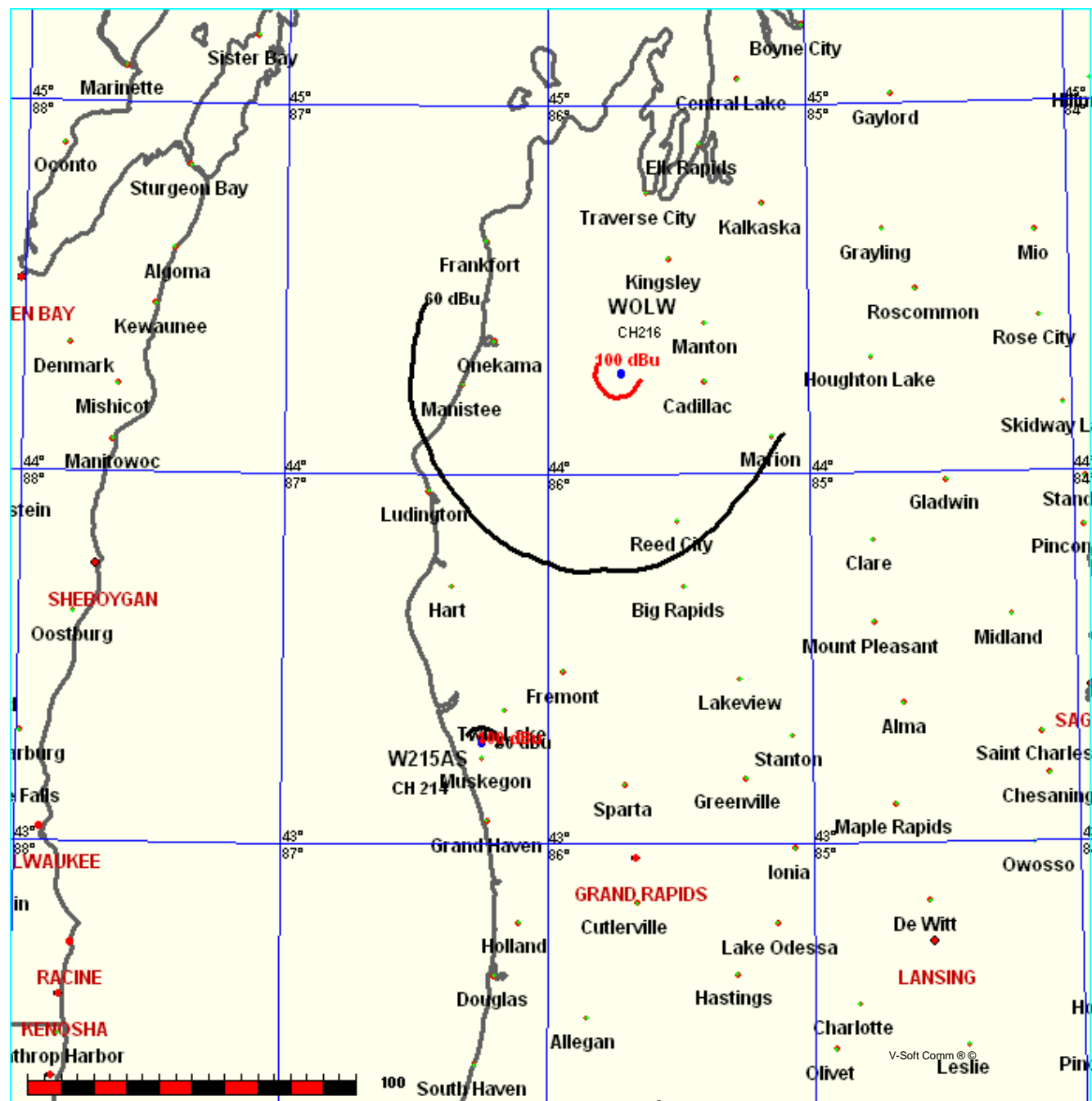
W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 54 dBu

WKAR-FM CH 213 B BLED19861204KC
87.0 kW, 541 M COR
Prot. = 60 dBu
Intef. = 54 dBu



W215AS CH 214 D
0.019 kW 244 M COR
Prot. = 60 dBu
Intef. = 100 dBu

WOLW CH 216 C1 BLED19880502KC
50.0 kW, 560 M COR DA
Prot. = 60 dBu
Intef. = 100 dBu



WSLI.C CH 215 B1 BMPED20070329AMP
11.5 kW, 333 M COR DA
Prot. = 60 dBu
Intef. = 54 dBu

