

WDPR AMENDED EXHIBIT 15 -
CONTOUR OVERLAP STUDY

August 2004

A search of the FM data base shows that detailed analysis is needed for eight stations: (1) co-channel application 980901MD in Grove City, Ohio on Channel 201, (2) co-channel WBCJ in Spencerville, Ohio on Channel 201, (3) a new first-adjacent application (BNPED-19991028AAM) in Springfield, Ohio on Channel 202, (4) first-adjacent WJVS in Cincinnati, Ohio on Channel 202, (5) first-adjacent application 981105MF in South Vienna, Ohio on Channel 202, (6) a new first-adjacent application (BNPED-20000218AAM) in Versailles, Ohio on Channel 202, (7) first-adjacent WAIF in Cincinnati, Ohio on Channel 202, and (8) second-adjacent WMUB in Oxford, Ohio on channel 203.

Figure 1 shows that the proposed WDPR F(50,10) 40 dBu contour does not overlap the F(50,50) 60 dBu contour of application 980901MD. (Note that American Family Association filed a minor amendment to BPED19980901MD on August 10, 2004. The AFA amendment is not relevant to the present discussion.) Figure 1 also shows that the proposed WDPR F(50,50) 60 dBu contour is very close to the F(50,10) 40 dBu contour of application 980901MD. Figure 1A is an expanded view showing that the proposed WDPR F(50,50) 60 dBu contour does not overlap the 980901MD F(50,10) 40 dBu contour.

For both Figures 1 and 1A and for all the other figures in this exhibit except Figure 1B the terrain elevation was calculated using the NGDC 30-second data base in one degree azimuthal steps. The effective antenna height in the direction of the radial was calculated by taking the radiation center above mean sea level (RCAMSL) and subtracting the average terrain elevation for that radial. The distance to the appropriate contour was calculated using the FCC computer code CURVES. The map projection used was the Ohio State Plane, South, converted to metric units.

In Figure 1A the closest approach for the two radials is eight to nine meters. The numerical data for this figure is shown in the following data for the relevant radials:

Proposed WDPR
Broadcast (Part 73) Radial Calculations
Site 39 43 16.00 N 84 15 0.00 W NAD 27
268.00m AMSL
Transmit: 235.00m AGL 0.60000kW
Channel 201
30-sec data

Degrees True	AAT	ERP	F(50,50) 60 dBu	F(50,10) 40 dBu
Azimuth 89.00	224.02m	0.600kW	24.13 km	71.61 km
Azimuth 90.00	223.40m	0.600kW	24.10 km	71.54 km
Azimuth 91.00	222.77m	0.600kW	24.07 km	71.47 km
Azimuth 92.00	222.13m	0.600kW	24.03 km	71.40 km
Azimuth 93.00	221.19m	0.600kW	23.99 km	71.29 km
Azimuth 94.00	220.26m	0.600kW	23.94 km	71.18 km
Azimuth 95.00	219.30m	0.600kW	23.89 km	71.08 km
Azimuth 96.00	218.25m	0.600kW	23.83 km	70.96 km
Azimuth 97.00	217.41m	0.600kW	23.79 km	70.86 km
Azimuth 98.00	216.19m	0.600kW	23.73 km	70.72 km
Azimuth 99.00	214.62m	0.600kW	23.64 km	70.54 km

NEW, Grove City BPED19980901MD

Broadcast (Part 73) Radial Calculations

Site 39 34 27.00 N 83 08 16.00 W NAD 27

246.00m AMSL

Transmit: 84.00m AGL 20.00000kW

Antenna: ODD980901MD Orientation 0.00

Channel 201

30-sec data

Degrees True	AAT	ERP	F(50,50) 60 dBu	F(50,10) 40 dBu
Azimuth 277.00	79.97m	3.200kW	22.06 km	72.95 km
Azimuth 278.00	80.04m	3.200kW	22.07 km	72.96 km
Azimuth 279.00	80.13m	3.200kW	22.08 km	72.98 km
Azimuth 280.00	80.22m	3.200kW	22.10 km	73.00 km
Azimuth 281.00	80.32m	3.200kW	22.11 km	73.02 km
Azimuth 282.00	80.43m	3.200kW	22.12 km	73.04 km
Azimuth 283.00	80.55m	3.200kW	22.14 km	73.07 km
Azimuth 284.00	80.68m	3.200kW	22.16 km	73.10 km
Azimuth 285.00	80.83m	3.200kW	22.18 km	73.13 km
Azimuth 286.00	80.98m	3.200kW	22.20 km	73.16 km
Azimuth 287.00	81.14m	3.200kW	22.22 km	73.20 km

Because the distance between the contours is so small in Figure 1A the contours were rerun using the more accurate USGS 30-m data base. The proposed WDPR F(50,50) 60 dBu contour and the 980901MD F(50,10) 40 dBu contour calculated using the USGS 30-m data base are shown in Figure 1B. Figure 1B again shows that the proposed WDPR F(50,50) 60 dBu contour does not

overlap the 980901MD F(50,10) 40 dBu contour. No expanded plot is needed for the contours based on the 30-m data as the lack of overlap is clearly shown in Figure 1B.

Figure 2 shows that the proposed WDPR F(50,10) 40 dBu contour does not overlap the WBCJ F(50,50) 60 dBu contour. Figure 2 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the WBCJ F(50,10) 40 dBu contour.

Figure 3 shows that the proposed WDPR F(50,10) 54 dBu contour does not overlap the new Springfield application F(50,50) 60 dBu contour. Figure 3 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the new Springfield F(50,10) 54 dBu contour.

Figure 4 shows that the proposed WDPR F(50,10) 54 dBu contour does not overlap the WJVS F(50,50) 60 dBu contour. Figure 4 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the WJVS F(50,10) 54 dBu contour.

Figure 5 shows that the proposed WDPR F(50,10) 54 dBu contour does not overlap the F(50,50) 60 dBu contour of application 981105MF. Figure 5 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the F(50,10) 54 dBu contour of application 981105MF.

Figure 6 shows that the proposed WDPR F(50,10) 54 dBu contour does not overlap the new Versailles application F(50,50) 60 dBu contour. Figure 6 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the new Versailles F(50,10) 54 dBu contour.

Figure 7 shows that the proposed WDPR F(50,10) 54 dBu contour does not overlap the WAIF F(50,50) 60 dBu contour. Figure 7 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the WAIF F(50,10) 54 dBu contour.

Figure 8 shows that the proposed WDPR F(50,10) 100 dBu contour does not overlap the WMUB F(50,50) 60 dBu contour. Figure 8 also shows that the proposed WDPR F(50,50) 60 dBu contour does not overlap the WMUB F(50,10) 100 dBu contour.

FIGURE 1 - PROPOSED WDPR VERSUS 980901MD

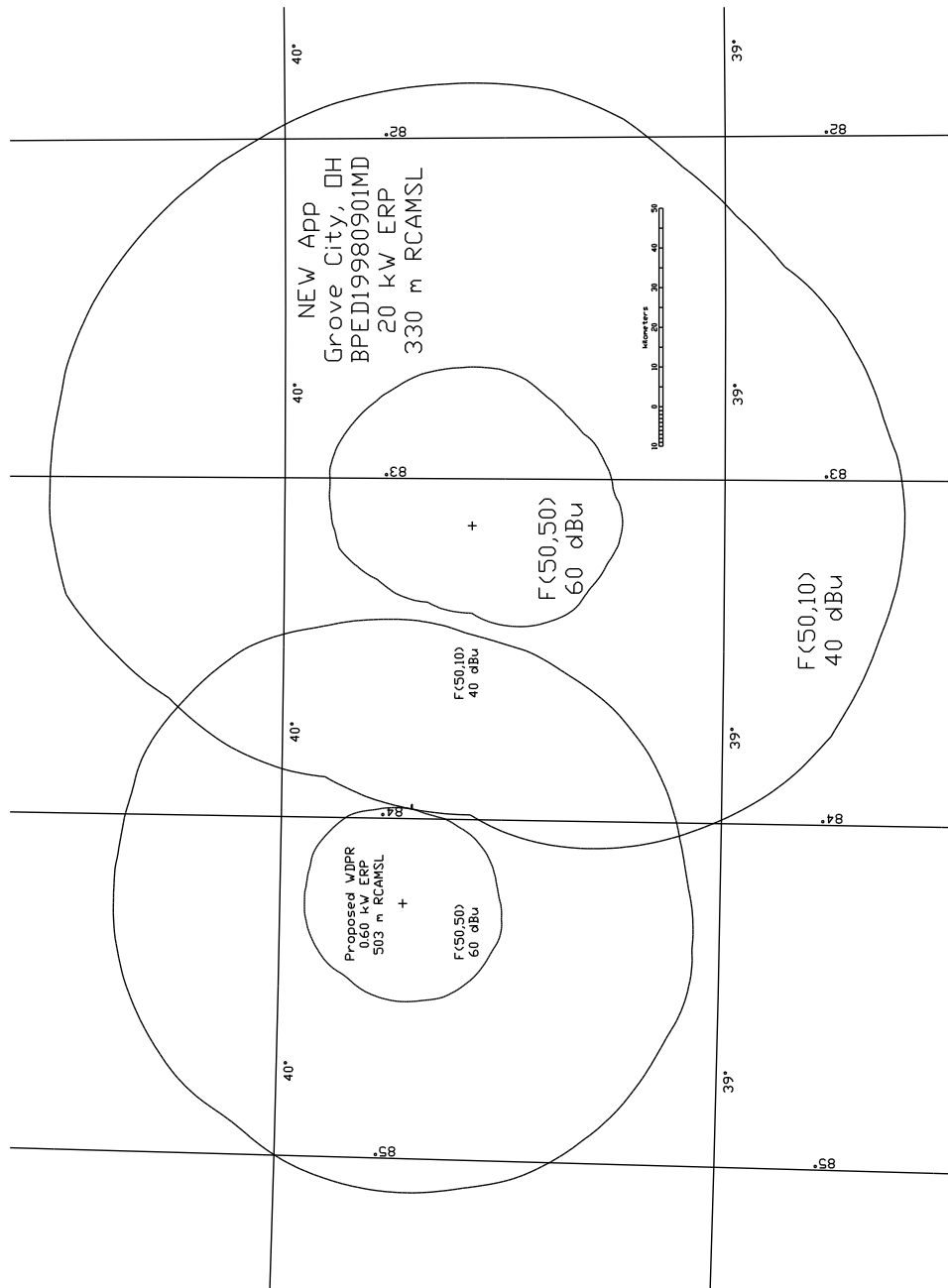


FIGURE 1A - EXPANDED VIEW OF 980901MD

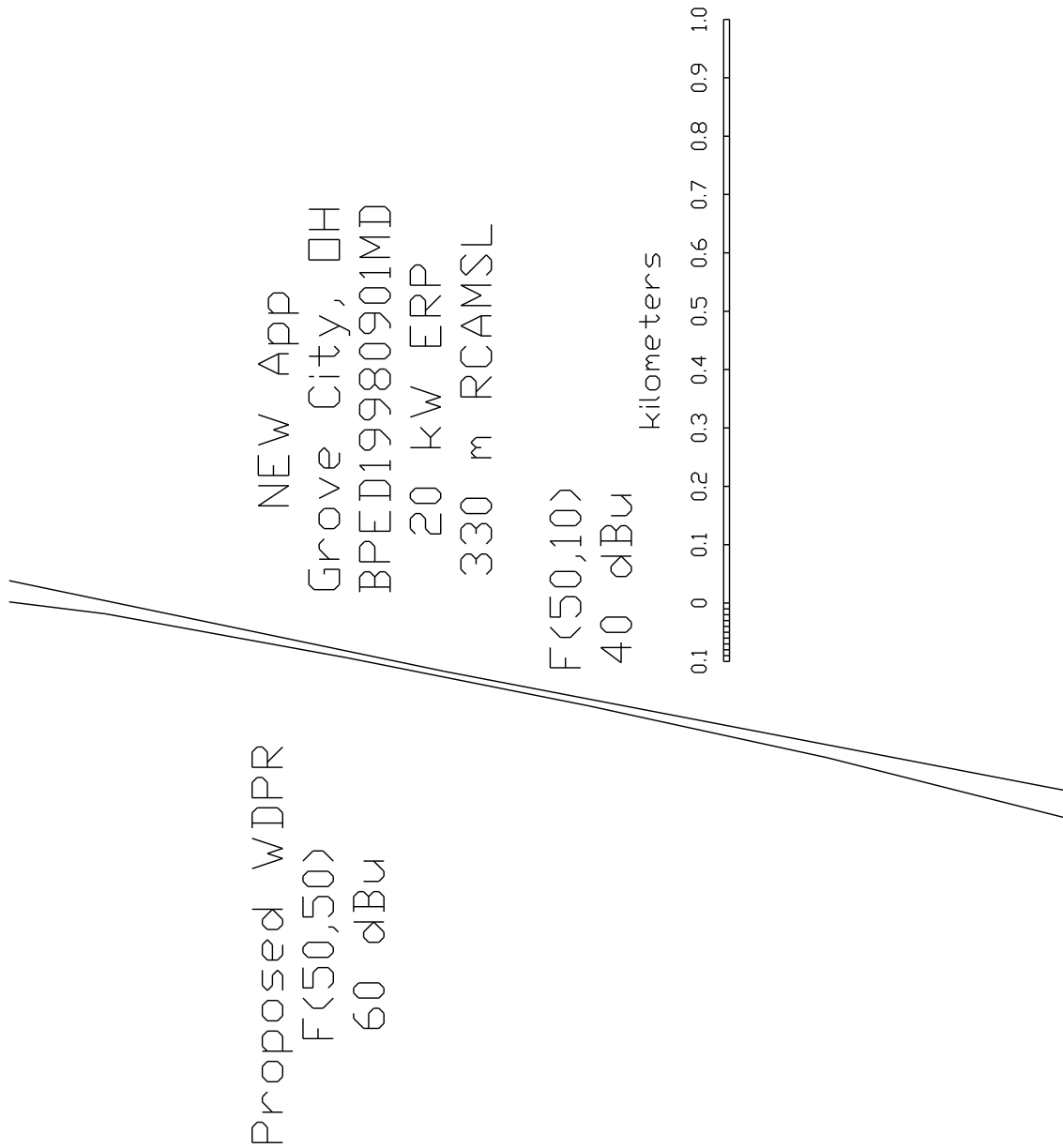


FIGURE 1B - PROPOSED WDPR VERSUS 980901MD
USING USGS 30-M DATA

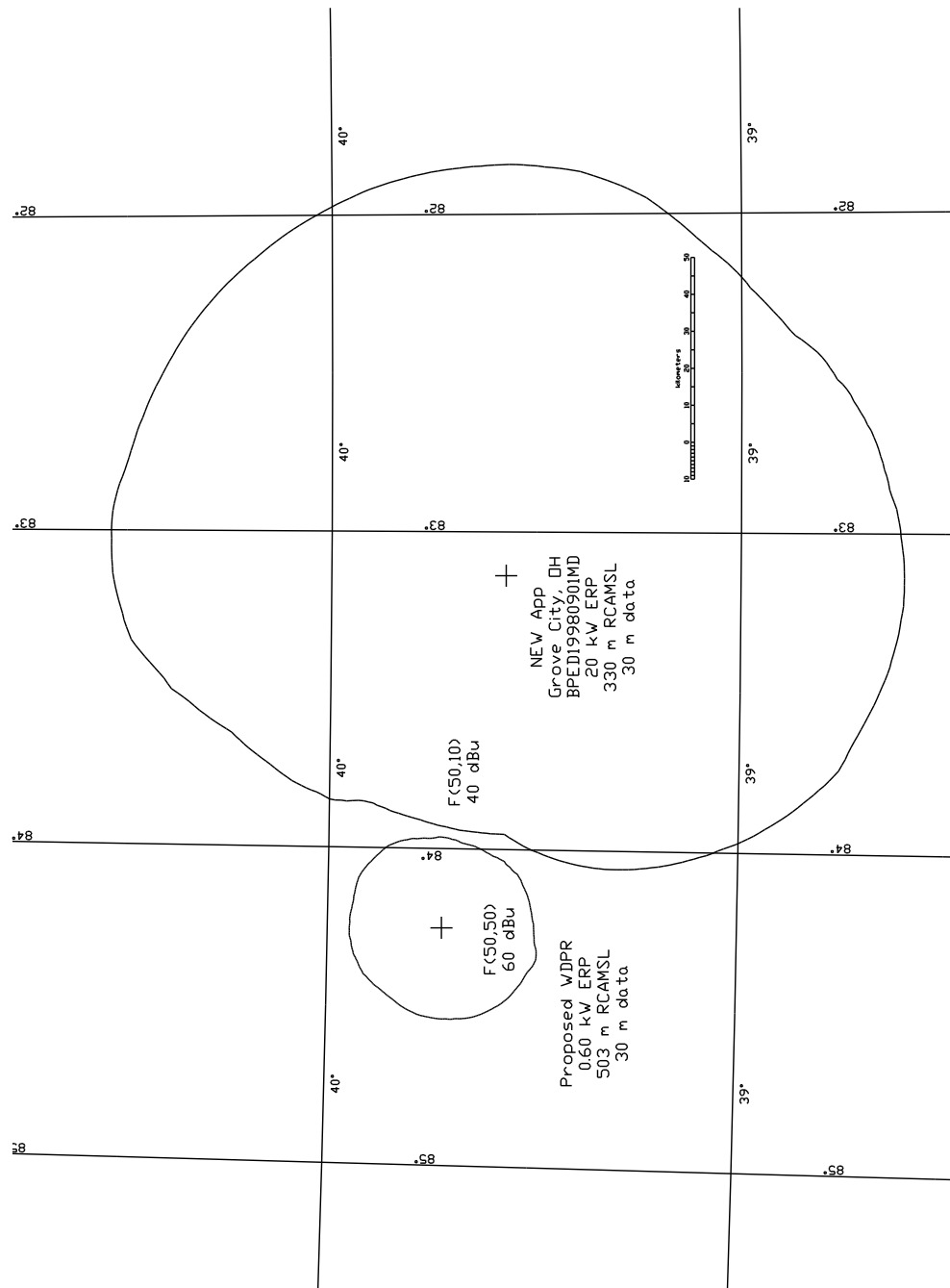


FIGURE 2 - PROPOSED WDPR VERSUS WBCJ

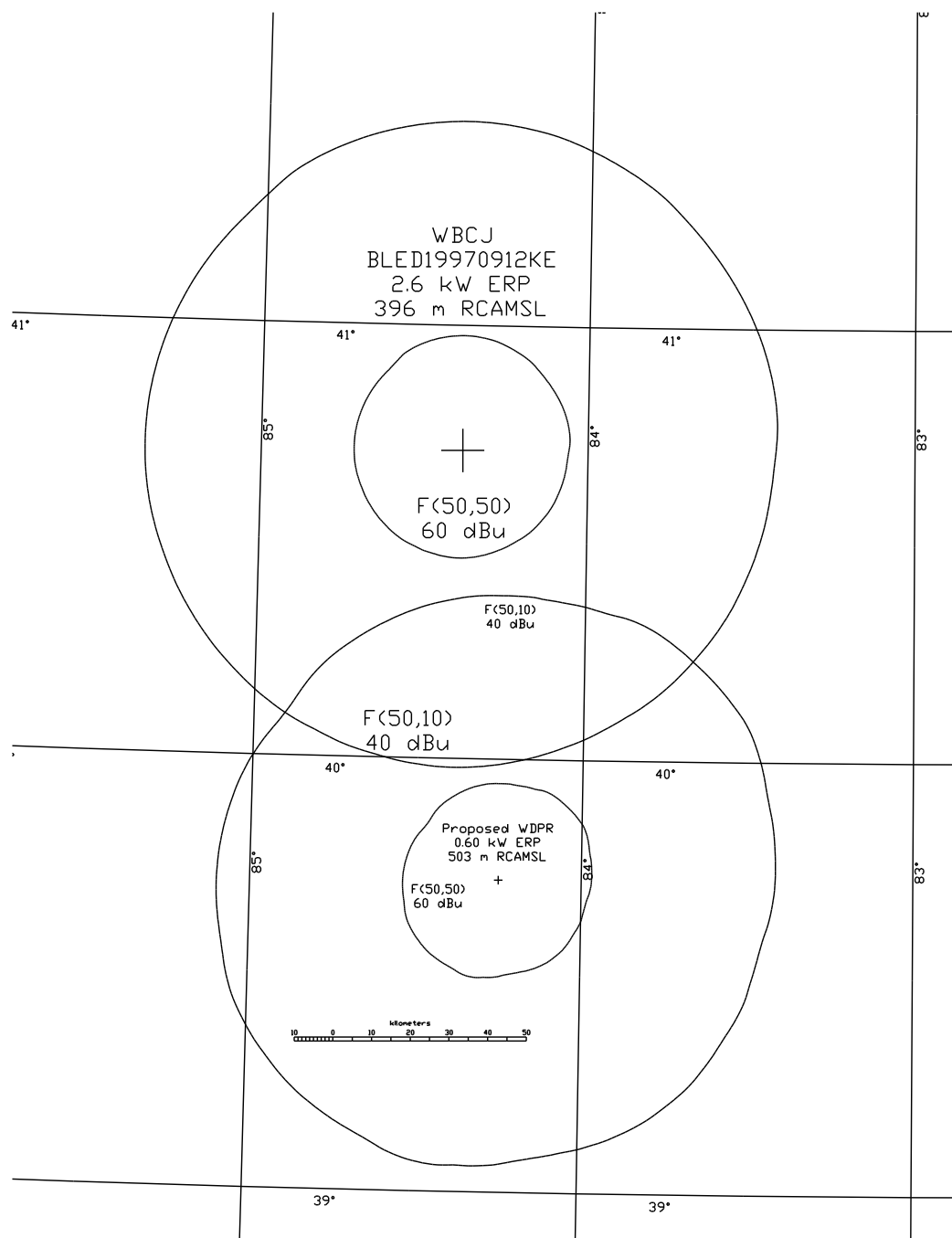


FIGURE 3 - PROPOSED WDPR VERSUS NEW SPRINGFIELD APPLICATION

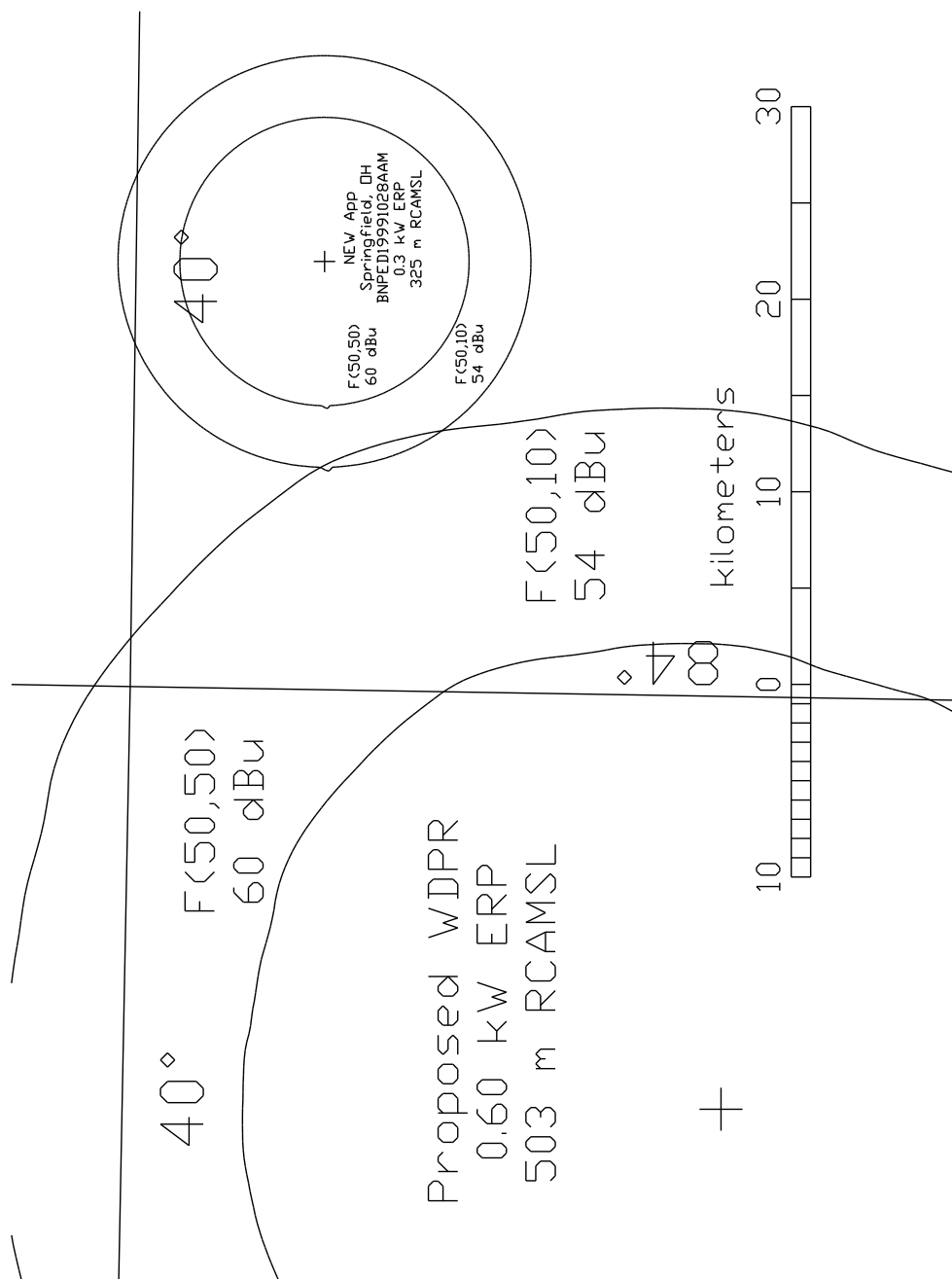


FIGURE 4 - PROPOSED WDPR VERSUS WJVS

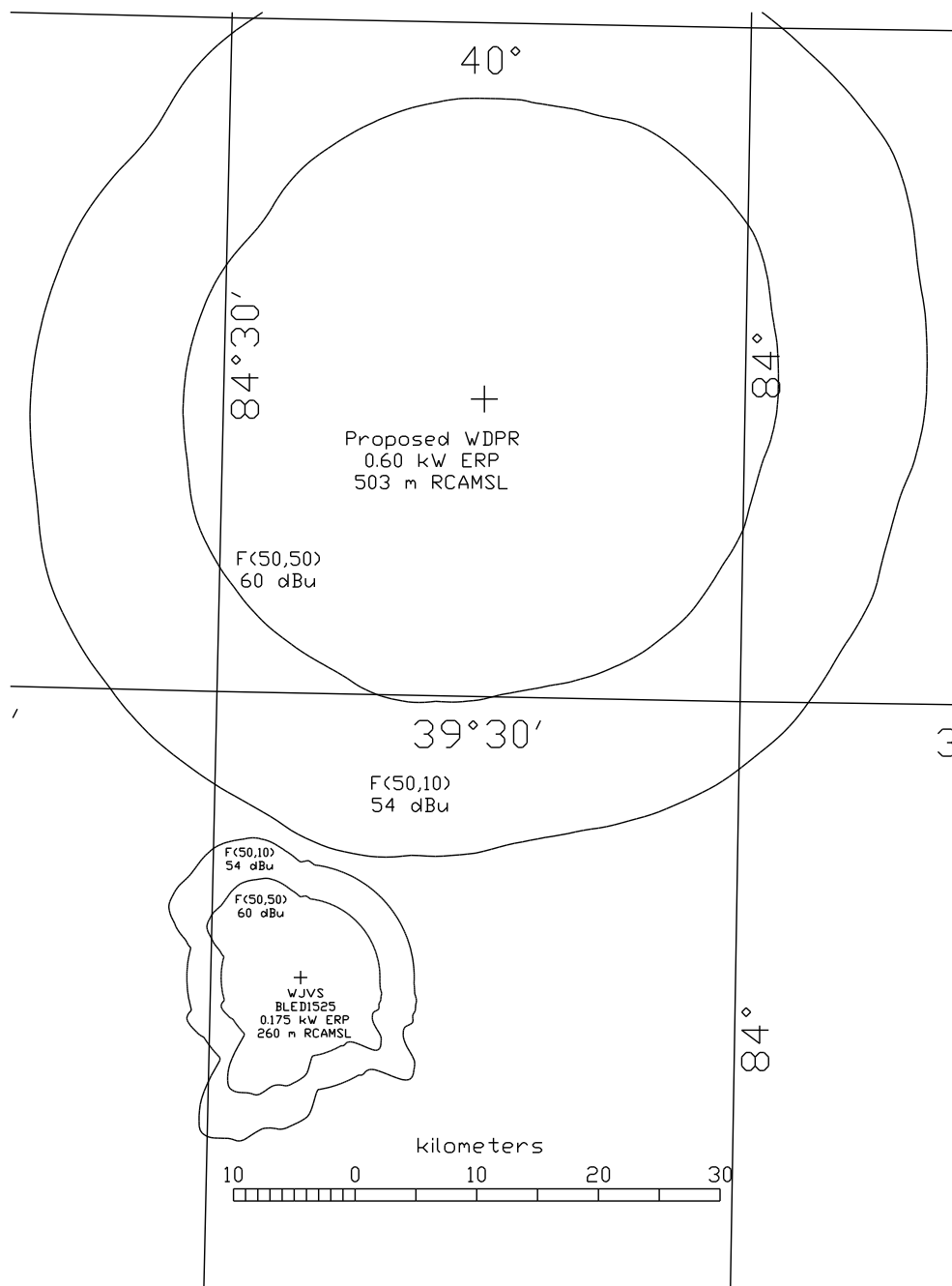


FIGURE 5 - PROPOSED WDPR VERSUS 981105MF

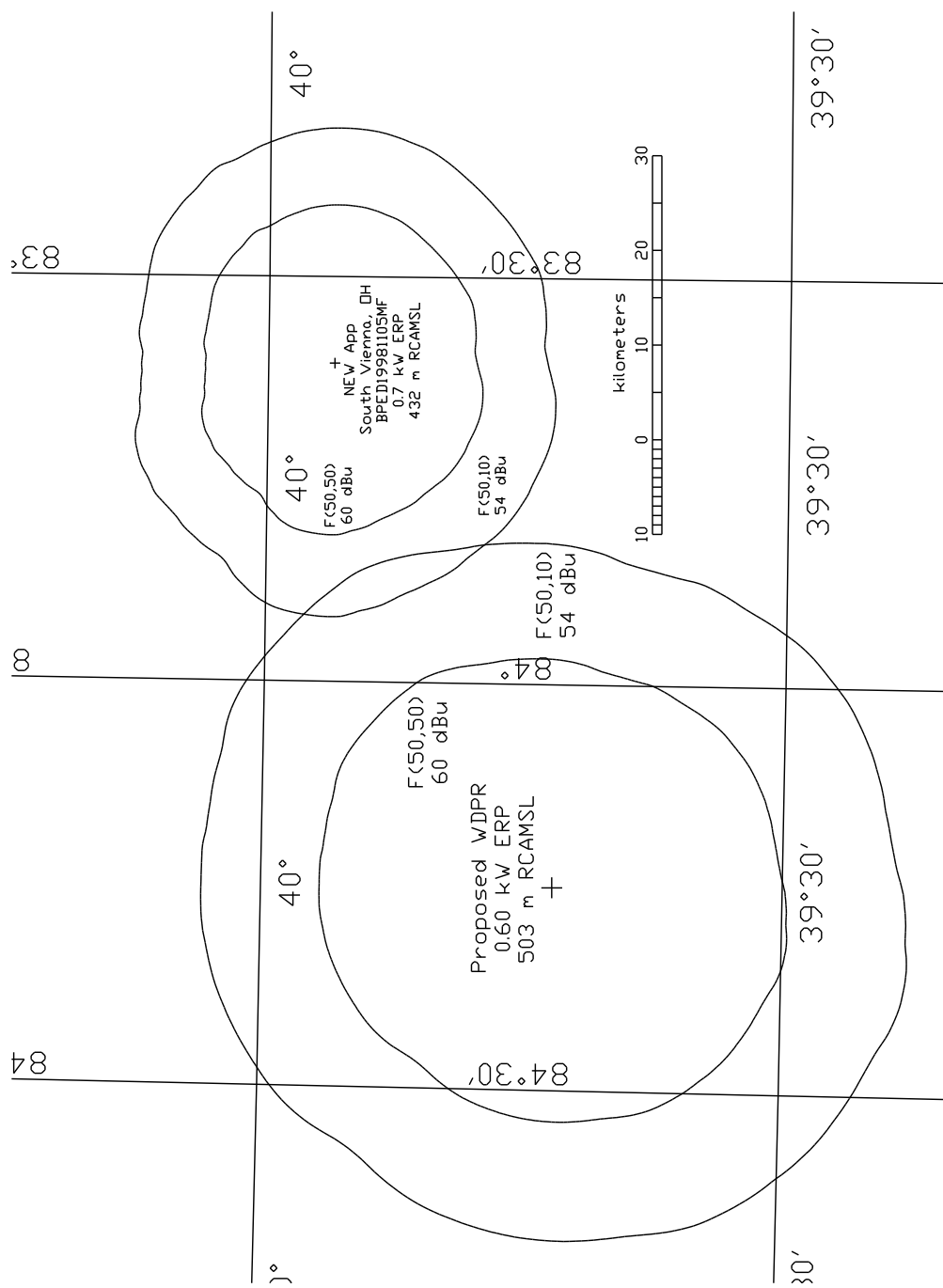


FIGURE 6 - PROPOSED WDPR VERSUS NEW VERSAILLES APPLICATION

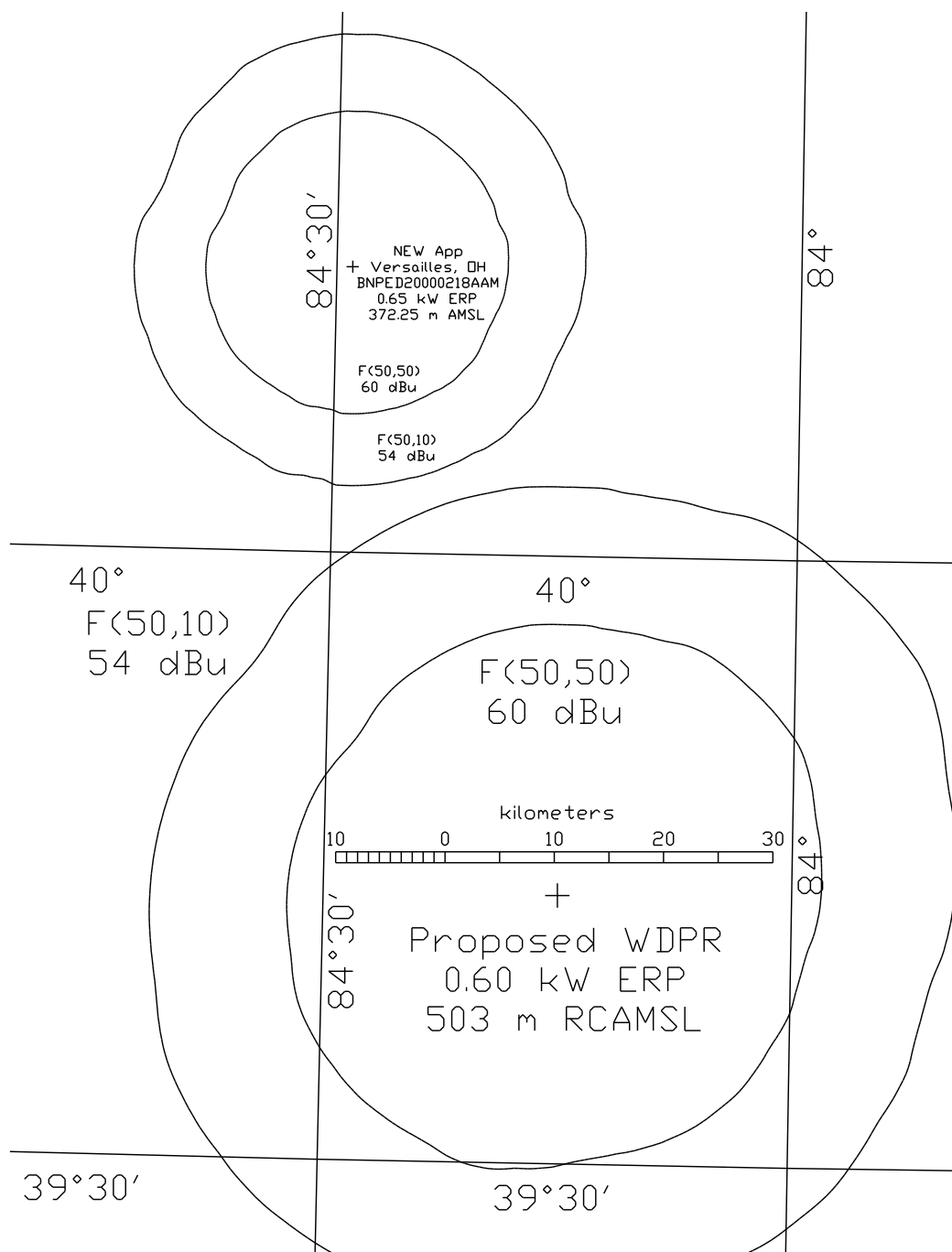


FIGURE 7 - PROPOSED WDPR VERSUS WAIF

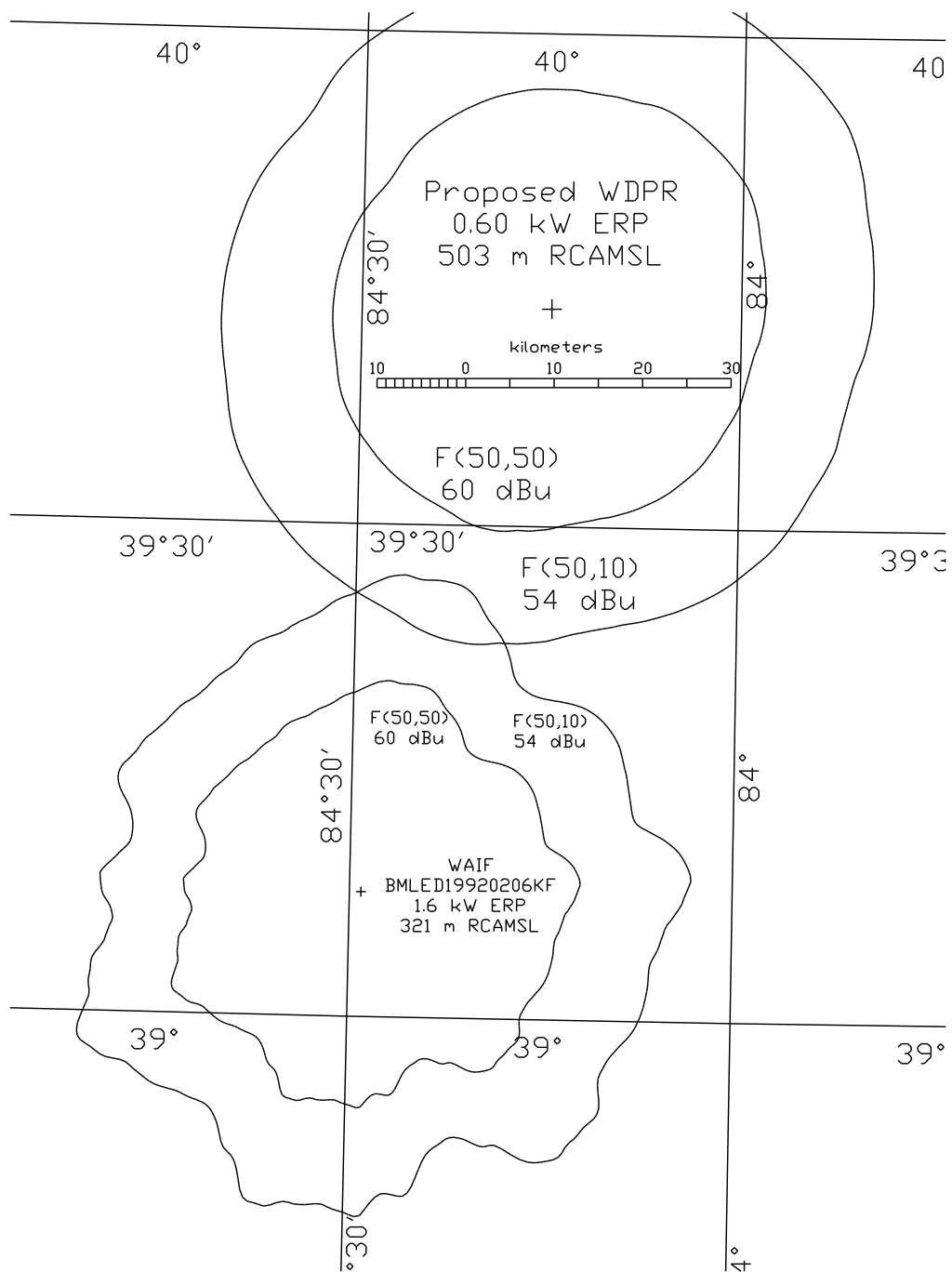


FIGURE 8 - PROPOSED WDPR VERSUS WMUB

