

ENGINEERING SHOWING

73.215 NARRATIVE

Although the proposed WYAB facilities do not satisfy the minimum spacing requirements of §73.207 with regard to station WFFX, Hattiesburg, Mississippi (Facility ID #54611), the contour protection requirements for short-spaced assignments of §73.215 are met.

The distance between the proposed WYAB (280A) transmitter site and the licensed WFFX (279C0) transmitter site is 136.91 km. Although this distance is less than the 152 km spacing required under §73.207, it exceeds the 130 km minimum distance requirement of §73.215(e). The locations of protected and interfering contours of WFFX (using hypothetical maximum facilities of 100 kW at 450 meters above average terrain) and the proposed WYAB facility were determined and are shown in Figure 1. No prohibited overlap is expected between the protected and interfering contours.

Relevant contour plots were generated by computer using the methods specified in §73.313. Antenna height above average terrain was computed using the standard eight-radial method specified in §73.313(d). Average terrain along additional azimuths was computed and used in conjunction with the F(50,50) and F(50,10) curves to determine distances to protected and interfering contours respectively. These additional azimuths were not included in the computation of the antenna eight-radial height above average terrain. Elevation data used in the computation of average terrain was determined by linear interpolation of USGS 3-arcsecond digital elevation model files consistent with §73.312.

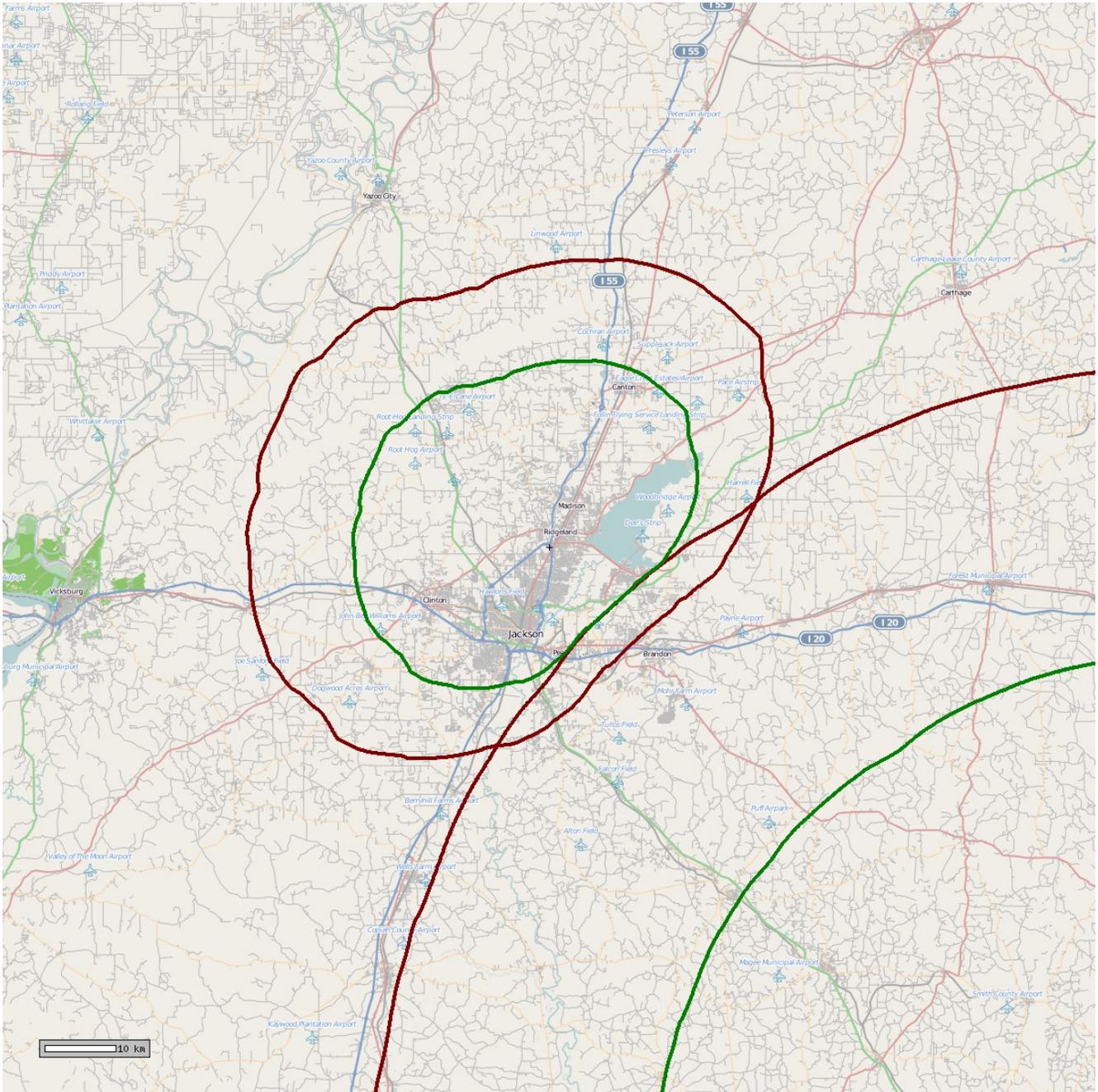


FIGURE 1: The above image depicts the proposed WYAB 103.9 FM at Pocahontas, Mississippi F(50,50) 60 dBu primary service contour (green, center of image), and the F(50,10) 54 dBu interfering contour (red, bottom-left of image) of WFX 103.7 FM at Hattiesburg, Mississippi. As depicted above, no prohibited overlap is predicted to occur between the two facilities.

73.315 NARRATIVE

The community of Pochontas, Mississippi lies approximately 14.7 km from the proposed transmitter site at an azimuth of 300.3 degrees. The height above average terrain along this azimuth is 106.3 m assuming the facilities specified herein (effective radiated power of 5.1 kW, center of radiation at 102.0 m above average terrain). According to the FCC F(50,50) curves, the resulting 70 dBu (3.16 mV/m) contour will be at a distance of 16.0 km along this azimuth. Therefore, it is concluded that the proposal complies with all of the Commission's technical requirements.

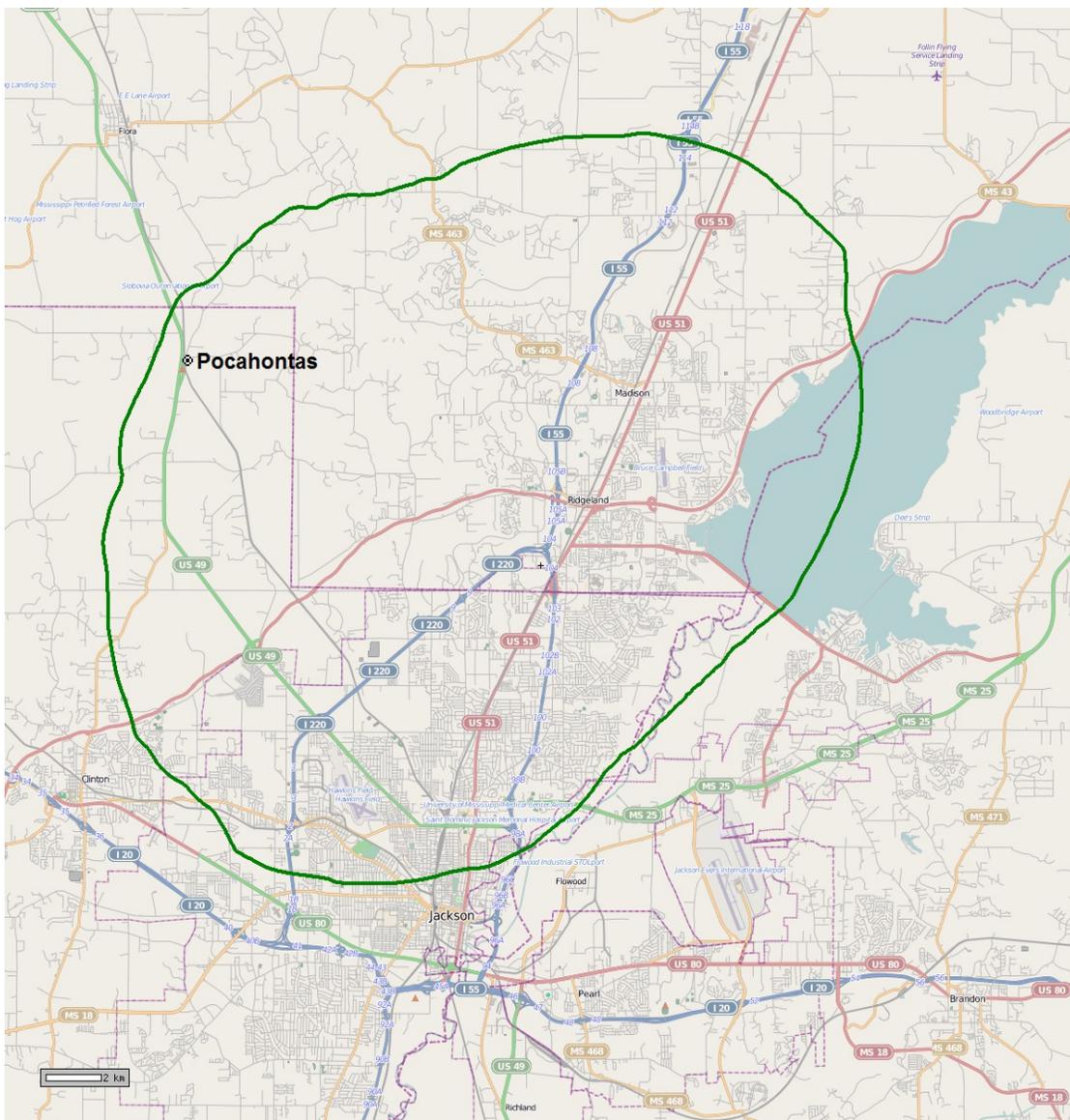


FIGURE 2: The above image depicts the predicted F(50,50) 70 dBu coverage contour of the WYAB facility proposed herein.