

## ENGINEERING EXHIBIT

### FILL-IN TRANSLATOR RELATIONSHIP TO PRIMARY STATION



Figure 1: The map above depicts the F(50,50) 60 dBu contour of the proposed fill-in W255BZ translator (Facility ID 147982, red contour) and a circle with a radius of 25 miles extending from the WNMB 900 AM (primary station, Facility ID 49985, black contour) tower site. As shown above, there is no point at which the translator's F(50,50) 60 dBu service contour extends the WNMB contour beyond 25 miles.

## **OVERLAP SHOWING BETWEEN LICENSED AND PROPOSED FACILITY**

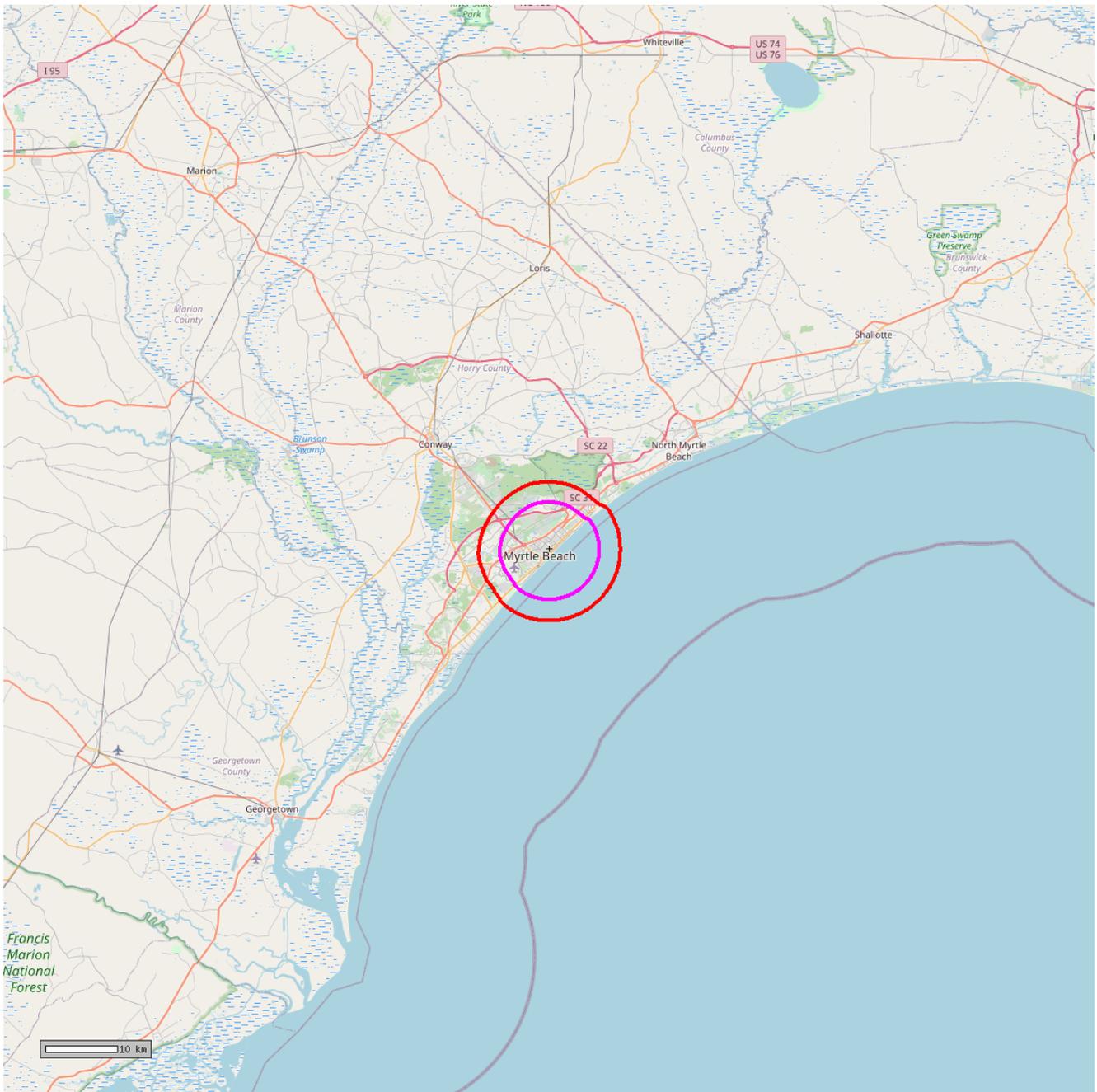


Figure 2: The map above depicts the F(50,50) 60 dBu contour of the proposed W255BZ fill-in translator (Facility ID 147982, red contour) against the W255BZ licensed facility (CDBS BLFT-20160425AAG). As shown above, there is substantial overlap between the two primary service contours. Therefore, it is respectfully concluded that the proposal herein constitutes a "minor change" application.

## **EXHIBIT - 74.1204 OVERLAP SHOWING**

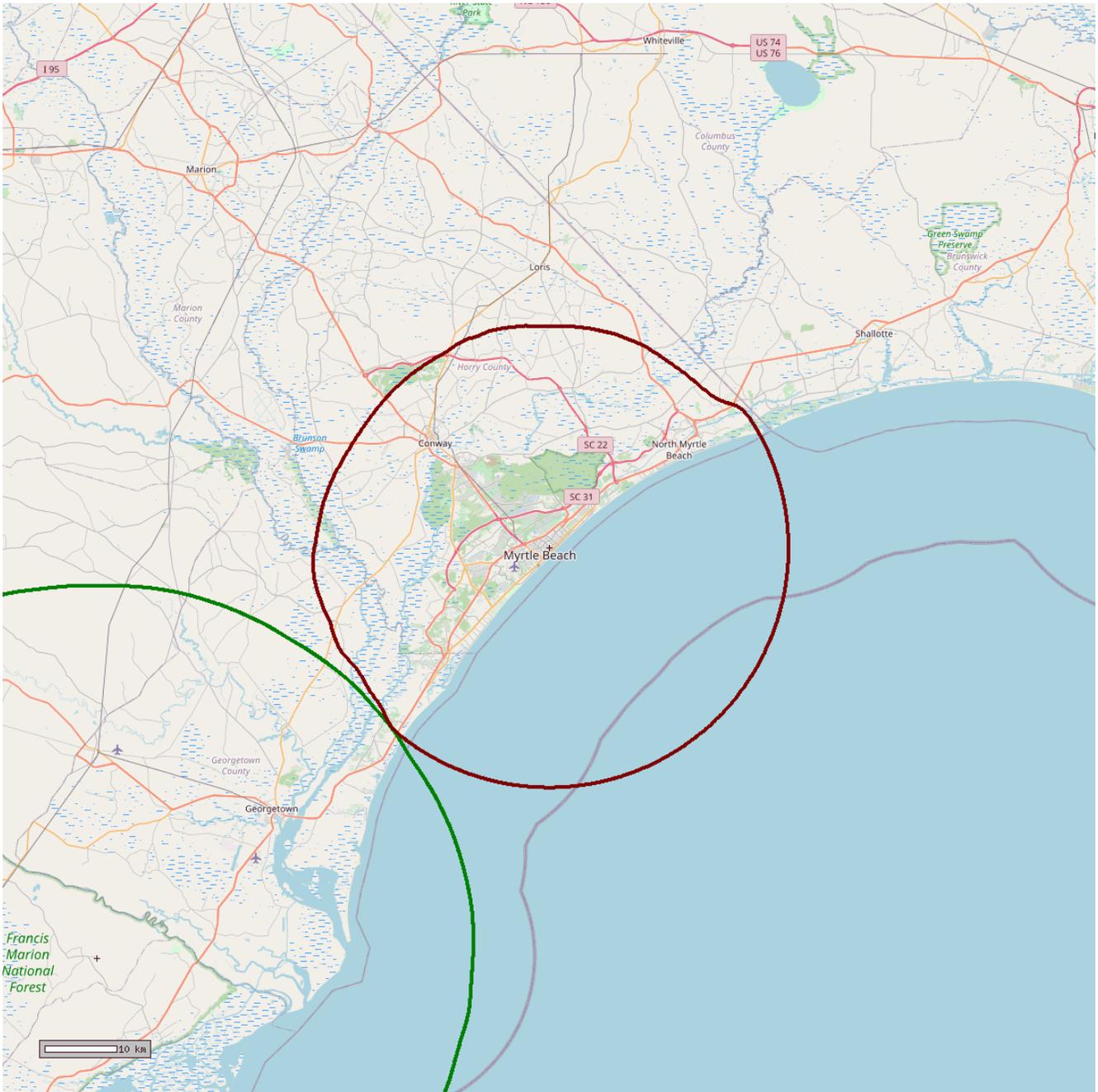


Figure 3: The map above depicts the F(50,50) 60 dBu contour of FM station WTMZ 98.9 FM at McClellanville, South Carolina (Facility ID 24201, green contour) and the F(50,10) 40 dBu interfering contour of the proposed W255BZ fill-in translator (Facility ID 147982, dark red contour). As demonstrated above, there is no prohibited overlap between the two facilities.

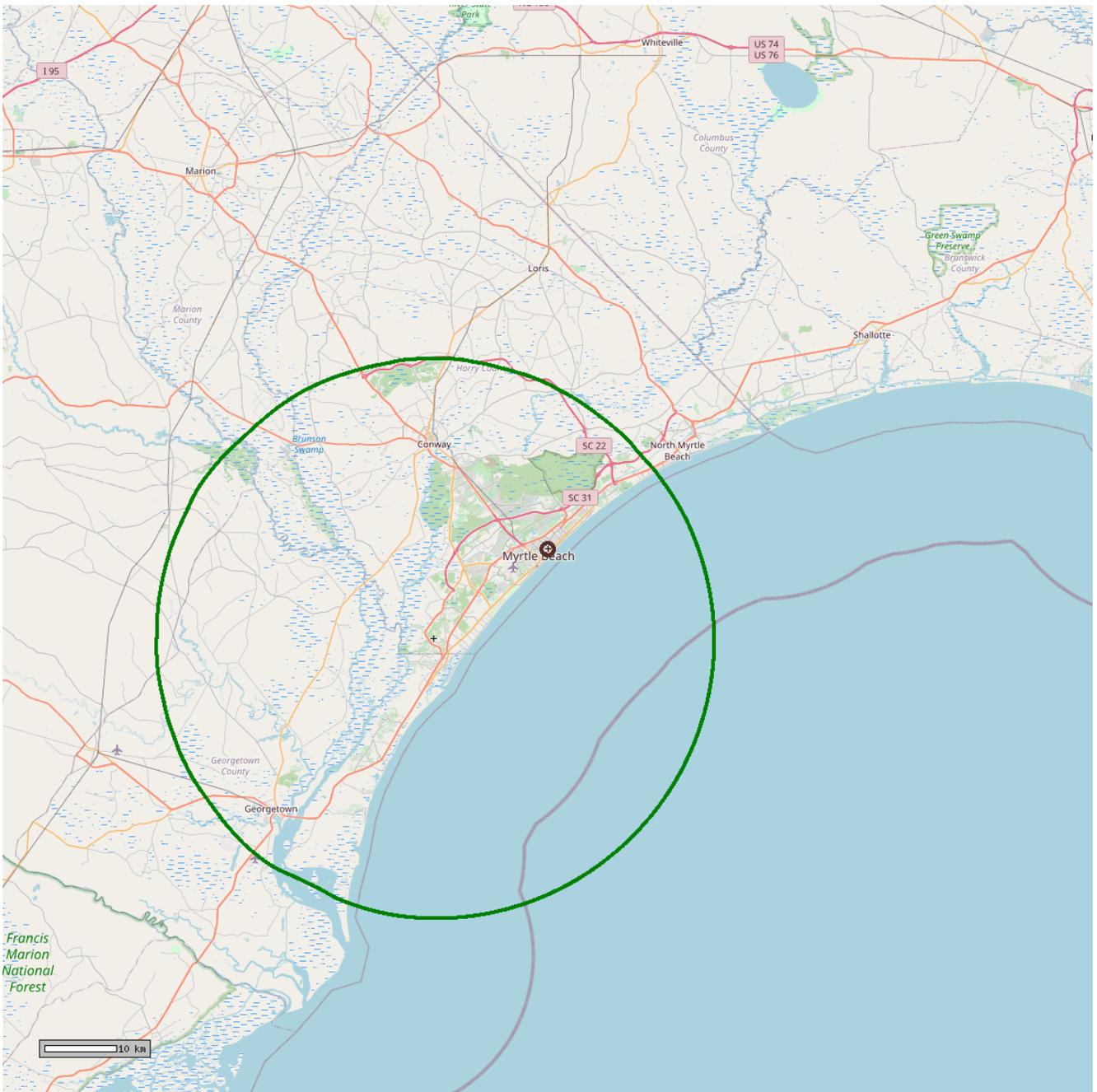


Figure 4: The map above depicts the F(50,50) 60 dBu contour of licensed FM station WDAI 98.5 FM at Pawleys Island, South Carolina (Facility ID 59490, green contour) and the F(50,10) 100 dBu interfering contour of the proposed W255BZ fill-in translator (Facility ID 147982, dark red contour). Per the attached waiver request, no actual interference is expected to occur between the two facilities.

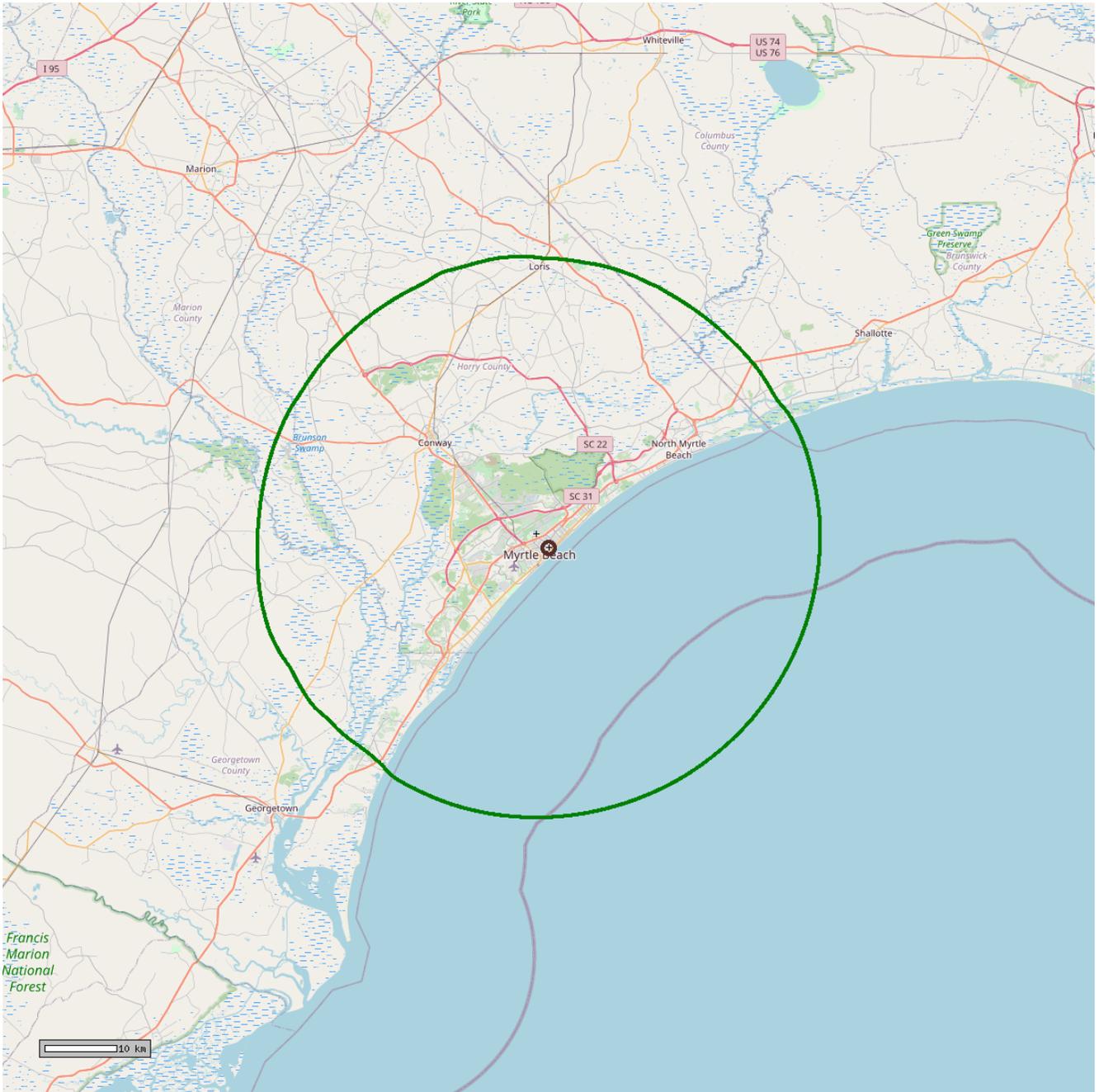


Figure 5: The map above depicts the F(50,50) 60 dBu contour of licensed FM station WRNN 99.5 FM at Socastee, South Carolina (Facility ID 53949, green contour) and the F(50,10) 100 dBu interfering contour of the proposed W255BZ fill-in translator (Facility ID 147982, dark red contour). Per the attached waiver request, no actual interference is expected to occur between the two facilities.