

**(Note: this exhibit was originally prepared for 100 kW but later the application was amended for 80 kW. The actual interference area and population is less than shown in this exhibit.)**

## **EXHIBIT E - 6 CHANNEL 202**

**Introduction:** Engineering Exhibit E - 6 will clarify what steps have been taken to avoid any significant Channel 6 interference.

**Procedure:** 47 CFR 73.599, Figure 1 shows the FM to TV-6 (U/D) for “Just Perceptible” interference. Since the applicant chooses to use mixed polarity, distances to the appropriate FM field strength contours were determined by using the formula listed in section 73.525(e)(4)(ii),  $(H + V/A)$  is no greater than  $P$ . Substituting the appropriate values,  $(.05 \text{ kW} + 100 \text{ kW} / 40 = 2.55 \text{ kW})$ . The equivalent permitted horizontal power is 2550 watts since the area is outside a city with a population of 50,000 persons.

**Exhibits:** Along the topside of Exhibit E-6A, TV 6 contour arcs are shown for the F (50, 50) contours of WCML TV-6. Also drawn are the proposed station’s F (50, 10) interfering contours are drawn. On the exhibit is a shaded oval that shows the predicted interference area. For clarity contours that did not overlap were omitted from map.

Along the bottom side of Exhibit E-6B, TV 6 contour arcs are shown for the F (50, 50) contours of WLNS TV-6. Also drawn are the proposed station’s F (50, 10) interfering contours are drawn. On the exhibit is a shaded oval that shows the predicted interference area. For clarity contours that did not overlap were omitted from map.

**Conclusion:** This proposal qualifies for an exemption under 47 CFR 73.525 (c) because the population based centroid retrieval method is only 2473. The Commission may properly grant this application since it is well below their statutory limit of 3000

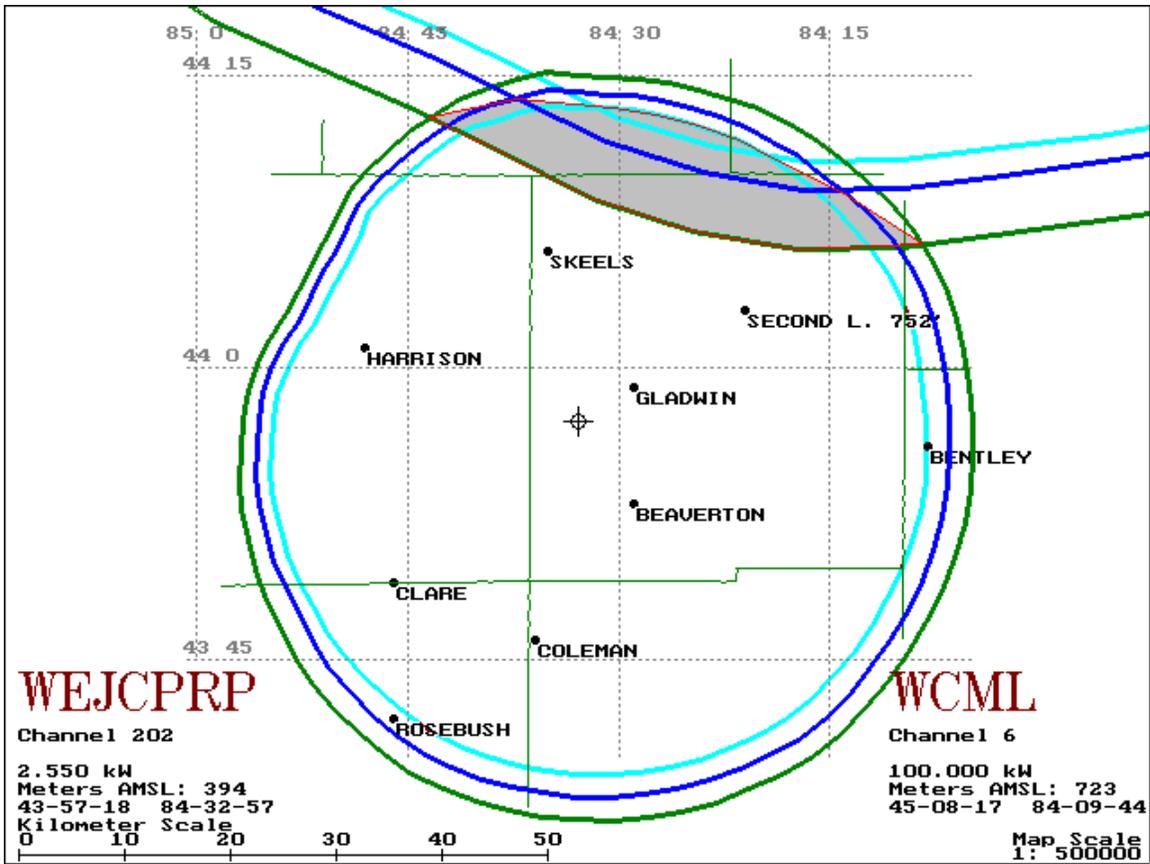


Exhibit E-6A

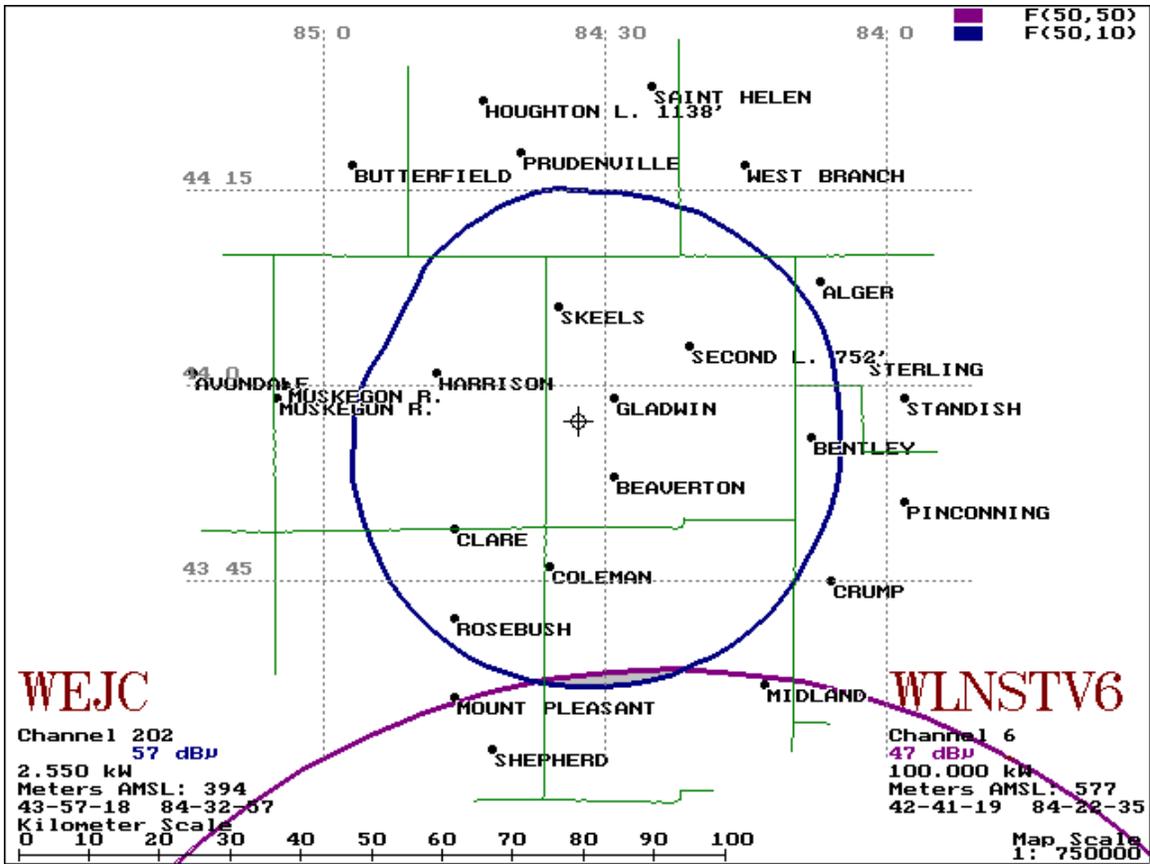


Exhibit E-6B