



## **TV CHANNEL 6 COMPATIBILITY STUDY**

### **New NCE-FM, Channel 205A Miamitown, OH**

The facility proposed herein complies with Section 73.525 of the FCC, concerning predicted interference to TV Channel 6 stations. The Channel 6 station requiring special study is WRTV in Indianapolis, IN.

From Figure 1 of Section 73.599, the U/D ratio for “just perceptible” interference to Channel 6 at the Grade B field strength contour (47 dBu) is 12 dB for Channel 205. Since the proposed NCE-FM facility is well beyond the WRTV Grade A contour, use was made of the additional 6 dB for antenna directivity in the direction from the NCE-FM site to WRTV. The interference contour of the NCE-FM station would therefore be 65 dBu ( $47 + 12 + 6$ ). The map attached to this narrative shows the predicted F(50,50) 47 dBu contour of WRTV and the predicted 65 dBu F(50,10) contour of the proposed FM facility. As can be seen, these contours do not overlap. Therefore, there is no predicted interference to WRTV.

# TV Channel 6 Protection Study - Prop. NCE-FM to WRTV(TV)

**990325.A**

BPED19990325MC

Latitude: 39-19-18 N

Longitude: 084-57-33 W

ERP: 4.60 kW

Channel: 205

Frequency: 88.9 MHz

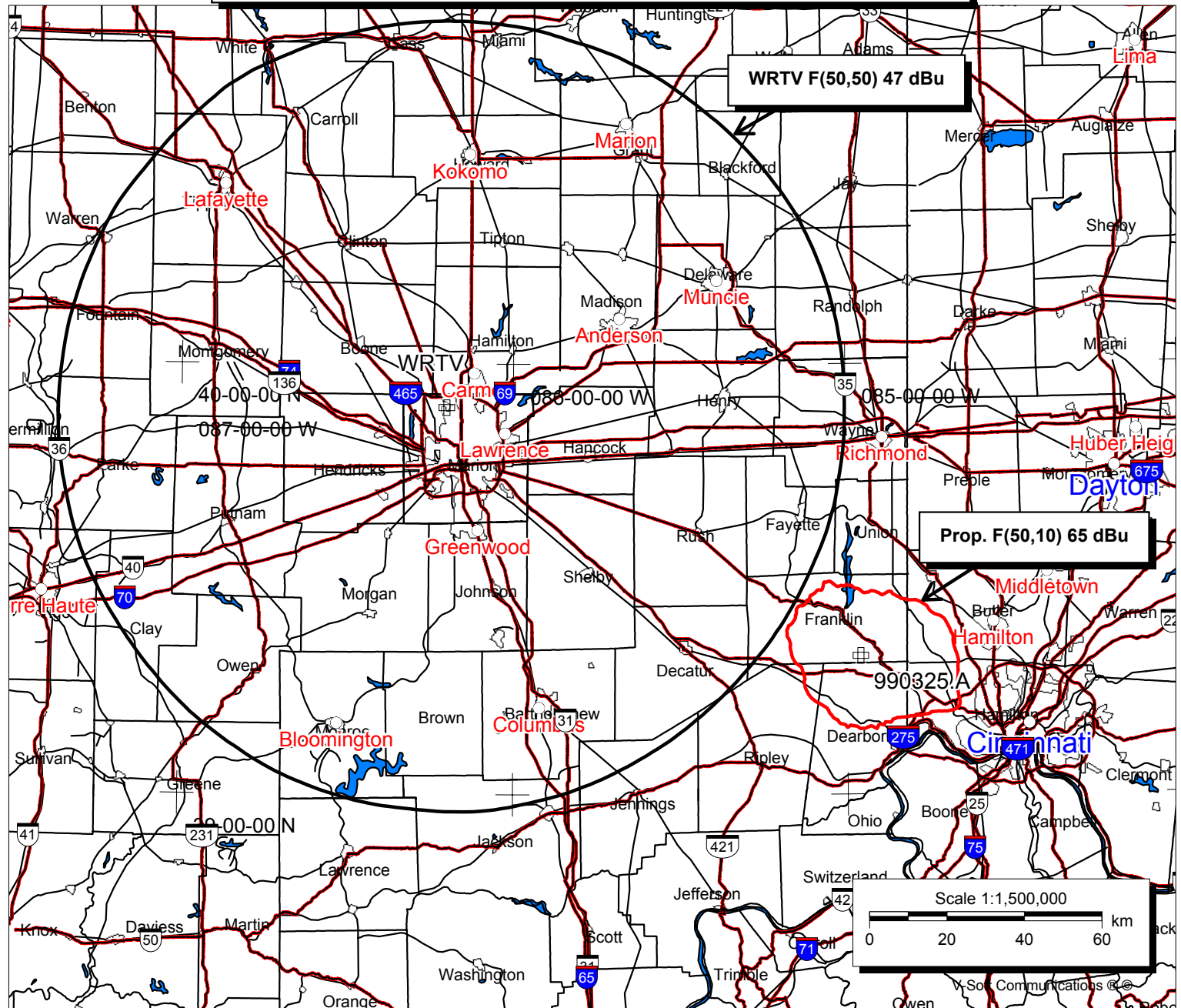
AMSL Height: 381.3 m

Elevation: 312.7 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: FCC



**Evans Associates**