

## **TV CHANNEL 6 INTERFERENCE STUDY SHELBY, OH**

A study of the Commission's database reveals that WSYX, Columbus, OH is located within the minimum distance specified by the Commission and therefore must be considered. WSYX operates with 100kW at 523m COR AMSL. Coordinates for WSYX are: **39-56-16 83-01-16.**

The population within an area of interference using a maximum of .950kW would exceed the Commission's population limits of 3000 persons, therefore the applicant chooses vertical only polarized transmissions. CFR 47 section 73.525(e)(4)(i), states the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(1)(iii) of this section, multiplied by either : 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not. A horizontal ERP of .024kw ( $950/40 = .024$ ) is used to calculate the area of interference. This proposed facility ***will not*** cause interference persons due to the fact no over lap of the relevant contours exist.

**Pursuant to Section 73.525, applicant proposes a vertical only E.R.P. of .950kW, the above statement indicates a population of less than 3000 persons are affected by the proposed channel and as such the proposed is in compliance with 47 CFR 73.525 of the Commission's Rules.**

**WAUI**

BLED19981124KA  
Latitude: 40-50-37 N  
Longitude: 082-37-21 W  
Power: 0.038 kW  
Channel: 202  
Frequency: 88.3 MHz  
AMSL Height: 396.0 m  
Elevation: 357.401 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

WAUI  
WSYX

Scale 1:1,250,000

0 10 20 30 km

