

EXHIBIT 19.1

STUDY CONCERNING POTENTIAL INTERFERENCE TO CHANNEL 6

The transmitter site for the use of Channel 211B1, WCWB(FM) is located within the 196 km affected radius of a Channel 6 television station, WLNS-TV, Lansing, MI. A study has been made of the potential for interference to the reception of this television station, in accordance with the provisions of §73.525 of the Rules.

Calculations were done in accordance with section 73.525(e), and there is contour overlap between the proposed NEW operation and the TV-6 facility, however the interference population will be below the 3,000 limit when 888 filtering devices are installed pursuant to §73.525(c)(2).

This FM application proposes the use of a directional antenna. As the FM interference contour does not reach a community of 50,000 persons or more, the power used for the contour calculations was determined as follows:

The ERP used for the interference calculations was determined using the formula of §73.525(e)(4)(ii). $P = H + (V/A)$ Solving, $0.001 + (25/40) = 0.626$ kW. Therefore, $P = 0.626$ kW, the power used to calculate the distance to the FM interference contours.

The FM to TV U/D ratio has been determined by reference to 47 C.F.R. Section 73.599, Figure 1. The following chart details specific Channel 6 service contours along with the corresponding FM interference contours used for this study. In accordance with the provisions of §73.525(e)(1)(iii) an adjustment of 6 dB may be made for television reception antenna directivity. This adjustment has been taken

TV/FM D to U values											
47.0	67.3	55.0	66.3	63.0	67.9	71.0	72.7	79.0	79.0	87.0	85.6
48.0	67.0	56.0	66.4	64.0	68.4	72.0	73.5	80.0	79.8	88.0	86.4
49.0	66.6	57.0	66.5	65.0	68.8	73.0	74.2	81.0	80.6	89.0	87.3
50.0	66.3	58.0	66.6	66.0	69.4	74.0	75.0	82.0	81.4	90.0	88.2
51.0	66.2	59.0	66.8	67.0	70.0	75.0	75.8	83.0	82.2	91.0	88.2
52.0	66.2	60.0	67.0	68.0	70.6	76.0	76.6	84.0	83.0	92.0	88.2
53.0	66.1	61.0	67.3	69.0	71.3	77.0	77.4	85.0	83.9	93.0	88.2
54.0	66.2	62.0	67.5	70.0	72.0	78.0	78.2	86.0	84.7	94.0	88.2

Inspection of the above table and attached map shows the worst case proposed FM interference contour associated with the protected TV contour used in calculating the actual interference area. The calculated interference contour contains a population of 3,887 to WLNS-TV. Under the provisions of §73.525(c)(2), up to 1,000 persons may be subtracted from the population within the predicted interference area if, for each person subtracted, the applicant effectively installs one filter. Upon the installation of 888 filters, the resulting proposed interference area population is reduced to 2,999 persons. As the proposed TV-6 interference population is below the 3,000 limit, full protection is afforded WLNS-TV.

Population information has been derived from U.S. Census 2000 population datum and plotted on computer mapping as supplied by V-soft™ Probe III™ computer mapping software. Tabulations of contours will be supplied to the Commission upon request.

WCWB.P

TV6 adjusted power

Latitude: 42-10-47 N

Longitude: 085-09-10 W

ERP: 0.626 kW

HAAT: 84.5 m

Channel: 211

Frequency: 90.1 MHz

AMSL Height: 365.0 m

Horiz. Pattern: Directional

Vert. Pattern: No

Prop Model: None

WLNSTV

BLCT20020103AAA

Latitude: 42-41-19 N

Longitude: 084-22-35 W

ERP: 100.00 kW

HAAT: 305.0 m

Channel: 06-

Frequency: 84.5 MHz

AMSL Height: 577.0 m

Vert. Pattern: Yes

Elec Tilt: 0.0

Prop Model: None

Exhibit 19.1 Proposed TV-6 Interference Study

298.1°T

72.3 dBu f(50:10) - WCWB(FM)

48.1°T

To WLNS-TV

WCWB.P

Calculated Interference Area
Total Population: 3,887
Polygon Area: 175.27 sq. km

Burlington

Athens

66.3 dBu f(50:10) - WCWB(FM)

50 dBu f(50:50) - WLNS-TV

Union City

158.1°T

Scale 1:100,000

0 1 2 3 km

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