

EXHIBIT 18.1**STUDY CONCERNING POTENTIAL INTERFERENCE TO CHANNEL 6**

The transmitter site for the use of Channel 211A, NEW.C(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 FM station and the TV-6 facility, however the interference population of 2,815 is below the 3,000 limit as set forth by §73.525(c).

This FM application proposes the use of a non-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, $0.001 + (6.2/40) = 0.156$ kW. Therefore, $P = 0.156$ 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. As stated before, the calculated interference contour contains a population of 2,815 which is below the 3,000 limit as set for in §73.525(c).

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.

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Exhibit 18.1
Channel 6 TV Study with
WLNS-TV - Lansing, MI
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Total Population: 2,815
Total Area: 132.15 sq. km

NEW.P
Proposed Operation
Latitude: 42-03-28 N
Longitude: 084-59-50 W
ERP: 0.156 kW
HAAT: 93 m
Channel: 211
Frequency: 90.1 MHz
AMS Height: 386.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WLNS-TV
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
AMS Height: 577.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: None

Scale 1:100,000



"+" Denotes U.S. Census 2000 Population Centroid Datum

Burlington

Tekonsha

NEW.P

Girard

285°T

45°T

145°T

66.3 dBu f(50:10)

72.3 dBu f(50:10)

50.0 dBu f(50:50)

