

EXHIBIT 19.1

STUDY CONCERNING POTENTIAL INTERFERENCE TO CHANNEL 6

The proposed NEW transmitter site for the use of Channel 206A is located within the 211 km affected radius of two Channel 6 television stations, WATE-TV, Knoxville, TN and WOOT-L(TV), Chattanooga, TN. WOOT-L(TV) holds both a license and a construction permit. Therefore, in accordance with the provisions of §73.525 of the Rules, a study has been made for potential interference to the reception of the station. Calculations were done in accordance with section 73.525(e), and there is contour overlap between the proposed NEW operation and the WATE-TV TV6 facility, however the interference population has been kept below the 3,000 person limit. There is no contour overlap between proposed NEW operation and the WOOT-L(TV) license or construction permit

This FM application proposes the use of a non-directional antenna. The FM interference contour overlap area does not reach a community of 50,000 persons or more, therefore the TV-6 study adjusted power level was determined using the formula of §73.525(e)(4)(ii). $P = H + (V/A)$ Solving, $1.2 + (1.2/40) = 1.230$ kW.

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.

The provisions of §73.525(e)(1)(iii) for an adjustment of 6 dB may be made for television reception antenna directivity. This adjustment has not been taken .

The resulting worst case interference contours result in the calculated interference area population of 942. The TV-6 and proposed interference contours have been shown with corresponding colored lines. As this interference population is below the 3,000 limit, full protection is afforded WATE-TV. Full protection is also afforded the WOOT-L(TV) license and construction permit as no contour overlap exists with these facilities.

TV/FM D to U values																
47.0	63.5		55.0	64.1		63.0	67.6		71.0	72.8		79.0	78.9		87.0	85.6
48.0	63.4		56.0	64.4		64.0	68.1		72.0	73.5		80.0	79.7		88.0	86.4
49.0	63.3		57.0	64.8		65.0	68.7		73.0	74.2		81.0	80.5		89.0	87.3
50.0	63.2		58.0	65.2		66.0	69.3		74.0	74.9		82.0	81.4		90.0	88.2
51.0	63.3		59.0	65.6		67.0	70.0		75.0	75.7		83.0	82.2		91.0	88.2
52.0	63.4		60.0	66.1		68.0	70.6		76.0	76.5		84.0	83.0		92.0	88.2
53.0	63.5		61.0	66.5		69.0	71.3		77.0	77.3		85.0	83.9		93.0	88.2
54.0	63.8		62.0	67.0		70.0	72.0		78.0	78.1		86.0	84.7		94.0	88.2

NEW.P
(Adjusted TV-6 Power)
Livingston, TN
Latitude: 36-25-55 N
Longitude: 085-23-25 W
ERP: 1.23 kW
HAAT: 198.12 m
Channel: 206
Frequency: 89.1 MHz
AMSL Height: 492.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

Exhibit 19.1 Proposed TV-6 Protection Study

Present 47.0 dBu f(50:50)

Proposed 63.5 dBu f(50:10)

NEW.P
✚

Total Contour Overlap Area
Total Population: 942
Total Area: 103.25 sq. km

U.S. Census 2000 Population Centroid Datum

WOOT-L.L
BLTVL19920501IJ
Latitude: 34-59-21 N
Longitude: 085-17-21 W
ERP: 0.058 kW
HAAT: 14.0 m
Channel: 06+
Frequency: 85.5 MHz
AMSL Height: 217.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WOOT-L.C
BPTVA20020903AAL
Latitude: 35-12-26 N
Longitude: 085-16-52 W
ERP: 1.40 kW
HAAT: 418.0 m
Channel: 06+
Frequency: 85.5 MHz
AMSL Height: 637.0 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.0
Prop Model: None

WATETV
✚

WATETV
BMLCT20041203AEH
Latitude: 36-00-13 N
Longitude: 083-56-34 W
ERP: 100.00 kW
HAAT: 548.3 m
Channel: 06Z
Frequency: 85.0 MHz
AMSL Height: 858.8 m
Horiz. Pattern: Omni
Vert. Pattern: Yes
Elec Tilt: 0.5
Prop Model: None

47.0 dBu f(50:50)

WOOT-L.C
✚
47.0 dBu f(50:50)

WOOT-L.L
✚



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Scale 1:1,400,000
0 10 20 30 km