

EXHIBIT 18.1

CHANNEL 6 TELEVISION PROTECTION STUDY

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The proposed transmitter site for WYFP (FM), operating on Channel 220 at Harpswell, ME, is located within the 154 km affected radius of one Channel 6 television station. It is WCSH (TV), Portland, Maine. Therefore, in accordance with the provisions of §73.525 of the Rules, a study has been made for potential interference to the reception of that station.

Calculations were done in accordance with section 73.525(e), and there is contour overlap between the FM station and WCSH (TV).

The ERP used for the interference calculations was determined using the mixed polarity formula of §73.525(e)(4)(ii). $[H+(V/A)]$ is no greater than P. Solving, $[6+(6/10)] = 6.60$ kW. Therefore, $P = 6.6$ kW, which was 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. Because the proposed FM site is within the 68 dBu Grade A contour of WCSH (TV), no adjustment for television reception antenna directivity has been taken.

WCSH (TV) Service Contour	Proposed FM Interference Contour
68.0 dBu	85.2 dBu
70.0 dBu	86.6 dBu
72.0 dBu	88.0 dBu
74.0 dBu	89.7 dBu
76.0 dBu	91.4 dBu

Inspection of the above table and the attached map will show that all of the proposed FM interference contours—and thus the actual area of interference—will lie within the proposed 85.2 dBu contour. It can, therefore, be used as a “worst case” scenario.

The series of F(50,50) Channel 6 service contours shown above have been plotted on the Probe II™ map shown as page 2 of this exhibit. The “worst case” 85.2 dBu FM interference contour is also shown on this map. Inspection of the map will show that much of the area within the interference contour lies over the Atlantic Ocean.

Population calculations were derived using the Probe II™ program supplied by V-Soft™ Communications. The program uses block centroid methodology for counting the number of persons residing within a given contour. This methodology allows population data to be taken from the 2000 US Census. The program found 2,420 persons within the proposed “worst case” 85.2 dBu interference contour, which is well below the permitted interference population of 3,000 persons. Detailed maps of the population centroids can be supplied upon request.

Exhibit 18.1
Channel 6 TV Study
WYFP - Harpswell, ME

