

# EXHIBIT 18.1

## TV Channel 6 Interference Study

The proposed KYFP(FM) transmitter site for Palestine, TX, is located within the 211 km affected radius of two Channel 6 television stations, KTAL-TV, Texarkana, TX and KCENT-TV, Temple, TX. 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 stations.

Calculations were done in accordance with section 73.525(e), and there is no contour overlap between the proposed FM station and TV-6 facility KTAL-TV. There is contour overlap between the proposed FM station and TV-6 facility KCEN-TV, however the interference population of 303 is within the allowable 3,000 limit.

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,  $[100+(100/10)] = 110.0$  kW. Therefore, P = 110.0 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.

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
48.0	63.4		56.0	64.4		64.0	68.1		72.0	73.5		80.0	79.7
49.0	63.3		57.0	64.8		65.0	68.7		73.0	74.2		81.0	80.5
50.0	63.2		58.0	65.2		66.0	69.3		74.0	74.9		82.0	81.4
51.0	63.3		59.0	65.6		67.0	70.0		75.0	75.7		83.0	82.2
52.0	63.4		60.0	66.1		68.0	70.6		76.0	76.5		84.0	83.0
53.0	63.5		61.0	66.5		69.0	71.3		77.0	77.3		85.0	83.9
54.0	63.8		62.0	67.0		70.0	72.0		78.0	78.1		86.0	84.7

Inspection of the above table and attached map shows the 63.5 dBu proposed FM interference contour associated with the each 47 dBu TV contour.

In accordance with the provisions of §73.525(e)(1)(iii) an adjustment of 6 dB may be made for television reception antenna directivity for interference areas falling within the TV-6 47 dBu contour, but not the 68 dBu contour. This adjustment has been taken for KCEN-TV. This adjustment need not be taken with respect to KTAL-TV. Therefore, over the proposed FM arc of 131°T to 351°T, the interference contour will be 69.5 dBu (63.5 +6).

As stated before, no contour overlap exists with KTAL-TV and population with the contour overlap area with KCEN-TV is limited to 303 persons, or a population well below the allowable 3,000 limit.

# Exhibit 18.1 Channel 6-TV Interference Study

**KCENTV**  
BLCT19811231KH  
Latitude: 31-16-24 N  
Longitude: 097-13-14 W  
ERP: 100.00 kW  
HAAT: 573.0 m  
Channel: 06+  
Frequency: 85.5 MHz  
AMSL Height: 756.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: Yes  
Elec Tilt: 0.66  
Prop Model: None

**KYFP.p**  
Proposed Operation  
Latitude: 32-00-12 N  
Longitude: 095-43-06 W  
ERP: 110.00 kW  
HAAT: 147.61 m  
Channel: 206  
Frequency: 89.1 MHz  
AMSL Height: 282.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None

**KTALTV**  
BLCT1135  
Latitude: 32-54-12 N  
Longitude: 094-00-23 W  
ERP: 100.00 kW  
HAAT: 482.0 m  
Channel: 06Z  
Frequency: 85.0 MHz  
AMSL Height: 552.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: Yes  
Elec Tilt: 0.0  
Prop Model: None

Total Population: 303  
Total Area : 275.12 km<sup>2</sup>  
U.S. Census 2000 Datum

Scale 1:1,500,000

0 20 40 60 km

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