

## EXHIBIT 19.1

### STUDY CONCERNING POTENTIAL INTERFERENCE TO CHANNEL 6

The proposed KCIE(FM) Channel 213C1 is located within the 193 km affected radius of Channel 6 television station, KREZ-TV, Durango, CO. 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 proposed KCIE(FM) operation and KREZ-TV, however this overlap is below the 3,000 allowed limit.

This FM application proposes the use of an omni-directional antenna. The FM interference contour overlap area does not reach a community of 50,000 persons or more, however to ensure maximum protection, the TV-6 study adjusted power level 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,  $10.0 + (10.0/10) = 11.0$  kW. Therefore,  $P = 11.0$  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. The worst case interference contour of 68.7 dBu has been assumed.

TV/FM D to U values											
47.0	69.5	55.0	68.7	63.0	70.2	71.0	74.9	79.0	81.2	87.0	87.9
48.0	69.3	56.0	68.8	64.0	70.7	72.0	75.6	80.0	82.0	88.0	88.7
49.0	69.0	57.0	68.8	65.0	71.1	73.0	76.4	81.0	82.8	89.0	89.6
50.0	68.8	58.0	68.9	66.0	71.7	74.0	77.2	82.0	83.7	90.0	90.5
51.0	68.8	59.0	69.0	67.0	72.2	75.0	78.0	83.0	84.5	91.0	90.5
52.0	68.7	60.0	69.3	68.0	72.8	76.0	78.8	84.0	85.3	92.0	90.5
53.0	68.7	61.0	69.5	69.0	73.5	77.0	79.6	85.0	86.2	93.0	90.5
54.0	68.7	62.0	69.8	70.0	74.2	78.0	80.4	86.0	87.0	94.0	90.5

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 a contour overlap population of 1,995 persons to KREZ-TV. The TV-6 contour has been shown in solid green line, while the KCIE(FM) 213C1 contour has been shown in a blue line. The worst case overlap area has been highlighted in red with the computer calculated U.S. Census 2000 population centroid datum population noted.

**KREZTV**  
BLCT19851107KJ  
Latitude: 37-15-46 N  
Longitude: 107-53-58 W  
ERP: 6.17 kW  
HAAT: 110.0 m  
Channel: 06+  
Frequency: 85.5 MHz  
AMSL Height: 2391.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: Yes  
Elec Tilt: 0.0  
Prop Model: None

## Exhibit 19.1 Proposed TV-6 Interference Study

**Present 47 dBu f 50:50)**

**Proposed 68.7 dBu f(50:10)**

⊕ KREZTV

**Total Population: 1,995  
Total Area: 2033.14 sq. km**

⊕ KCIE.P

**KCIE.P**  
Proposed Operation  
TV-6 Adjusted Power  
Latitude: 36-59-00 N  
Longitude: 106-58-12 W  
ERP: 11.00 kW  
HAAT: 465 m  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 2754.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

