

TECHNICAL STATEMENT
CONCERNING PROPOSED DISTRIBUTED TRANSMISSION SYSTEM
KTSC-DT, PUEBLO, COLORADO
CHANNEL 8

This Technical Statement was prepared on behalf of Rocky Mountain Public Broadcasting Network, Inc. in support of an application for Special Temporary Authority (STA) for a new distributed transmission system (DTS). The proposed DTS system would consist of the main KTSC-DT facility located in Pueblo, Colorado and a DTS facility, identified as DTS1, located near Colorado Springs.

The proposed DTS1 transmitter will be located on Cheyenne Mountain utilizing the tower structure aperture now employed for the analog KTSC(TV) antenna. For the post-transition, the KTSC-DT main facility will be re-located to its former tower location on Baculite Mesa near Pueblo. An application is pending to authorize this facility as the normal main transmitting facility for KTSC-DT (See FCC File No. BLET-20080618ATA). The technical parameters of the proposed DTS1 facility are as follows:

Channel:	8
Antenna Coordinates:	N. Latitude: 38-44-43 W. Longitude: 104-51-39
Antenna Type:	Dielectric, Directional Model No. THA-1/1-1
Maximum Effective Radiated Power (average:	0.15 kW
Transmitter:	Type Accepted.
Antenna Height Above Mean Sea Level:	2966 meters
HAAT:	720 meters
Tower Registration Number:	1025328

The proposed DTS facility will allow for service to be provided to viewers of KTSC-DT in the Colorado Springs area that are anticipated to have reception problems due to distance and intervening terrain from the main KTSC-DT facility on Baculite Mesa.

The proposed DTS system would be authorized in accordance with the FCC's interim policy permitting operation of DTS systems. And the proposed facility was designed to meet the FCC interim authorization criteria. See *Clarification Order and Notice of Proposed Rulemaking* in MM Docket No. 05-312 (rel. Nov. 4, 2005). In particular, the proposed predicted 36 dBu, f(50,90) service contour will not exceed that of the main KTSC-DT facility to be authorized at Baculite Mesa. See attached coverage map. In addition, as demonstrated in the attached interference analysis, there will be no impermissible interference caused as a result of the instant proposal for DTS1.

The proposed DTS1 and main KTSC-DT facilities will be treated as a single DTS system. The programming streams from each transmitter will be synchronized with the appropriate time delay to minimize any intrasystem interference that might be predicted to occur. Based on this, it is anticipated that DTS1 will provide a significant enhancement of service for the KTSC-DT facility.



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