

TECHNICAL EXHIBIT
APPLICATION FOR LICENSE
TELEVISION STATION KSTP-DT
ST. PAUL, MINNESOTA
CH 50 1000 KW 433 M

Technical Statement

This Technical Exhibit was prepared on behalf of Television Station KSTP-DT on Channel 50 assigned to Saint Paul, Minnesota in support of its application for license. The station is presently operating on automatic program test authority with the authorized facilities of 1000 kilowatts non-directional and an antenna height above average terrain of 433 meters on Channel 50.¹

Figure 1 is a tabulation of the carrier transmission system losses. It is noted that the KSTP-DT antenna is diplexed with WCCO-DT on Channel 32 and KARE-DT on Channel 35 with a Harris TAD-32UDA-5/80-MRST UHF Deltawing Antenna.

Charles A. Cooper

January 2, 2002

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237
941.329.6000

¹ See FCC Construction Permit File Number: BPCDT-19980731KG.

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KSTP-TV System Transmission System Losses

Description	Loss in dB
Main Transmission Line - Myat Single 8-3/16" 75 ohm main feeder, 1450 feet (1300 feet vertical and 150 feet horizontal)	1.38
Combiner:	0.30
Transmitter Building Transmission Line:	0.10
Total System Loss:	1.78

Note: The Harris TAD-32UDA-5/80-MRST antenna has a peak azimuth power gain of 1.38 and an elevation power gain of 31.06 on Channel 50.