

TECHNICAL EXHIBIT
REQUEST FOR LICENSE
TELEVISION STATION KCWV-DT
DULUTH, MINNESOTA
CH 27 40 KW (MAX-DA) 207 M

Technical Statement

This Technical Exhibit was prepared on behalf of Television Station KCWV-DT on Channel 27 assigned to Duluth, Minnesota in support of its request for station license. The station has completed equipment tests and by this instant application is requesting licensure for the authorized facility of a maximum average effective radiated power of 40 kilowatts on Channel 27.¹

Figure 1 is a tabulation of the carrier transmission system losses.

Charles A. Cooper

December 1, 2009

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

¹ See FCC Construction Permit File Number: BMPCDT-20080617ACJ.

Figure 1

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KCWV-DT RF System Summary

Description	System
Transmitter Power Output (2.25 kW):	3.5 dBk
Mask Filter (included in transmitter):	0.5 dB
Transmission Line - HJ7-50A Flexible Coaxial 3-1/8" main feeder, 550 feet 1-5/8" Air Dielectric, 30 feet:	1.5 dB
Antenna: ERI ALP-16L3-HSE-27 (28.05 Power Gain):	14.5 dB
Maximum Effective Radiated Power (40 kW):	16.0 dBk