

TECHNICAL EXHIBIT  
REQUEST FOR LICENSE  
TELEVISION STATION WHIO-DT  
DAYTON, OHIO  
CH 41 1000 KW 348 M

Technical Statement

This Technical Exhibit was prepared on behalf of Television Station WHIO-DT on Channel 41 assigned to Dayton, Ohio in support of its request for its station license. The station has completed equipment tests, is operating pursuant to automatic program test authority and by this instant application is requesting licensure for the authorized facility of a maximum average effective radiated power of 1000 kilowatts on Channel 41.<sup>1</sup>

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

It is noted that the installed antenna is an Dielectric model number TFU-30GTH-R 4C130. The installed model number differs slightly from that specified within the construction permit. However, the only difference is to reflect this antenna has a lower vertical plane

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<sup>1</sup> See FCC Construction Permit File Number: BPCDT-20080619ACK.

elevation gain. There is no change in the azimuthal (non-directional) or electrical beam tilt specifications.

Charles A. Cooper

September 11, 2009

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

Figure 1

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WHIO-DT RF System Summary

Description	System
Transmitter Power Output (40.2 kW):	16.0 dBk
Transmission Line - EIA/DCA 6-1/8" 1200 ft:	1.5 dB
Antenna: Dielectric, TFU-30GTH-R 4C130 (35.1 Power Gain):	15.5 dB
Effective Radiated Power (1000 kW):	30.0 dBk