

# SYSTEM SUMMARY

CALL LETTERS: **WMTV-DT**

CHANNEL: **19**

LOCATION: **Madison, Wisconsin**

ANTENNA TYPE: **Dielectric TUA-O4-10/40H-1-S-R (Horizontal polarization)**

## **ANTENNA**

ERP: **47.9 kW (+16.80 dBk)**

RMS GAIN: **19.8 (12.97 dBd)** (referenced to half wave dipole)

INPUT POWER: **2.42 kW (+3.83 dBk)**

## **TRANSMISSION LINE**

Type: **Dielectric DigiTLine**

Size: **6 1/8 in**

Impedance: **75 ohm**

Length: **1,250 ft (381.0 m)**

Attenuation: **1.36 dB (Efficiency: 73.2%)**

## **COMBINER**

Type: **DCA**

Attenuation: **0.25 dB (Efficiency: 94.4%)**

## **COMBINER INPUT**

Power required: **3.50 kW (+5.44 dBk)**