

TECHNICAL EXHIBIT
IN SUPPORT OF LICENSE APPLICATION
FOR STATION WOI-DT (FACILITY ID 8661)
AMES, IOWA
CH 5 11.5 KW 566 M

Technical Narrative

This technical statement was prepared in support of the license application for station WOI-DT at Ames, Iowa. Station WOI-DT holds a post-transition authorization for channel 5 with a maximum effective radiated power (ERP) of 11.5 kilowatts (kW) and an antenna radiation center height above average terrain (HAAT) of 566 meters (BPCDT-20080620ABC). Station WOI-DT is operating under automatic program test authority and this application for license is being filed to cover its construction permit.



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WOI-DT RF Transmission System Specifications

Description	System
Transmitter Power Output (2.82 kW):	4.49 dBk
Transmission Line Loss (71.6%) (3" rigid air) 1700 feet:	1.45 dB
RCA TBF-6AM (5.7 Power Gain):	7.56 dB
Effective Radiated Power (11.5 kW):	10.6 dBk