

TECHNICAL EXHIBIT  
IN SUPPORT OF LICENSE APPLICATION  
FOR STATION KCAU-TV (FACILITY ID 11265)  
SIOUX CITY, IOWA  
CH 9 43.9 KW 616 M

Technical Narrative

This technical statement was prepared in support of the license application for station KCAU-TV at Sioux City, Iowa. Station KCAU-TV has been granted a construction permit (BPCDT-20100512AFP) to operate on channel 9 with a non-directional effective radiated power (ERP) of 43.9 kilowatts (kW) and an antenna radiation center height above average terrain (HAAT) of 616 meters. Station KCAU-TV is currently operating under special temporary authority with these facilities. This application for license is being filed to cover the construction permit.



Jerome J. Manarchuck  
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237  
(941) 329-6000  
JERRY@DLR.COM

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KCAU-TV RF Transmission System Specifications

Description	System
Transmitter Power Output (3.4 kW):	5.32 dBk
Transmission Line Loss (71.6%) (6" rigid air) 2000 feet:	1.4 dB
RCA TW-18A9P (18 Power Gain):	12.5 dB
Effective Radiated Power (43.9 kW):	16.42 dBk