

APPLICATION FOR STATION LICENSE

JOSEPH W. SHAFFER

KTDF-LP LPTV STATION

CH 23- - (524-530) MHZ - 12.0 KW

SAN ANTONIO, TEXAS

May 2011

EXHIBIT A

KTDF-LP LPTV Transmission System Calculations

Effective Radiated Power:	12.0 kilowatts (horizontal)
Antenna:	Kathrein/Scala SL-8-23
Horizontal gain (maximum):	Power gain 13.804 (11.4 dB)
Transmission Line: (100.0 feet)	Andrew Corporation LDF7-50A 1 5/8 inch foam dielectric 87.8% efficiency (0.56 dB loss)
Required Transmitter Power Output To Reach Effective Radiated Power:	0.990 kilowatt (990.0 watts)
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Facilities Authorized:	Channel 23- - 524-530 MHz
Effective Radiated Power:	12.0 kilowatts (H)
Geographic Coordinates:	North Latitude 29° 25' 41" West Longitude 98° 29' 32"
Antenna Center of Radiation:	Above Ground 140.2 meters Above AMSL 345.0 meters
Antenna Structure Registration # :	1054137