

DISPLACEMENT APPLICATION
JOSEPH W. SHAFFER
KTDF-LP LPTV STATION
CH 23- - 524-530 MHZ - 12.0 KW
SAN ANTONIO, TEXAS
January 2010

EXHIBIT C

KTDF-LP Transmission System Calculations

Effective Radiated Power:	
Horizontal	12.0 kilowatts (maximum)
Antenna:	Scala
	Model SL-8-23
Horizontal gain (maximum):	Power gain 13.804 (11.4 dB)
Transmission Line:	Andrew Corporation LDF7-50A
(100 feet)	1 5/8 inch foam dielectric
	87.8% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.990 kilowatt (990.0 watts)