

**DIGITAL COMPANION APPLICATION**  
**JOSEPH W. SHAFFER**  
**KTDF-LP LPTV STATION**  
**CH 4 - 66-72 MHZ - 0.3 KW**  
**SAN ANTONIO, TEXAS**  
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**EXHIBIT C**

**KTDF-LP Digital Transmission System Calculations**

Effective Radiated Power: Horizontal	0.3 kilowatts (maximum)
Antenna:	Scala Model TVO-4
Horizontal gain (maximum):	Power gain 1.995 (3.0 dBd)
Transmission Line: (100 feet)	Andrew Corporation LDF7-50A 1 5/8 inch foam dielectric 95.9% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.1568 kilowatt (156.8 watts)