

**NEW DIGITAL LPTV STATION APPLICATION**  
**DOCKINS COMMUNICATIONS, INC.**  
**NEW DIGITAL LPTV STATION**  
**CH 18 - (494-500 MHZ) - 15.0 KW**  
**FARMINGTON, MISSOURI**  
**March 2010**

**EXHIBIT C**

**New LPTV Transmission System Calculations**

Effective Radiated Power:

Horizontal

15.0 kilowatts (maximum)

Antenna:

Systems with Reliability

Model SWEDM24OI/15-18

Horizontal gain (maximum):

Power gain 41.48 (16.18 dB)

Transmission Line:

(250 feet)

Andrew Corporation HJ7-50A

1 5/8 inch air dielectric

76.1% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

0.475 kilowatts