

REPLACEMENT DIGITAL TELEVISION TRANSLATOR
GRIFFIN LICENSING, LLC
NEW FILL-IN DIGITAL TV TRANSLATOR
CH 19 - 500-506 MHZ - 1.0 KW (DA)
MCALESTER, OKLAHOMA
June 2011

EXHIBIT D

Digital Replacement Translator Proposed Transmission System Calculations

Effective Radiated Power:

Horizontal

1.0 kilowatt (maximum)

Antenna:

Kathrein/Scala Antenna

Model 770-881

Horizontal gain (maximum):

Power gain 6.310

Transmission Line:

(375 feet)

Andrew Corporation HJ7-50A

1 5/8 inch air dielectric

66.2% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

0.2394 kilowatt (239.4 watts)