

REPLACEMENT DIGITAL TELEVISION TRANSLATOR
GRIFFIN LICENSING, LLC
NEW FILL-IN DIGITAL TV TRANSLATOR
CH 30 - 566-572 MHZ - 1.0 KW
CANEY, KANSAS
August 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

64.3% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

0.2465 kilowatt (246.5 watts)