

**MINOR CHANGE APPLICATION/
DIGITAL FLASH-CUT
RAPID BROADCASTING COMPANY
K40GS LPTV STATION
CH 40 - 626-632 MHZ - 4.0 KW
RAPID CITY, SOUTH DAKOTA
May 2012**

EXHIBIT C

K40GS LPTV Proposed Transmission System Calculations

Effective Radiated Power:

Horizontal

4.0 kilowatts

Antenna:

Andrew Corporation

Model - ALP-24L3-HSE-40

Horizontal gain (maximum):

Power gain 46.89 (16.72 dB)

Transmission Line:

(490 feet)

Dielectric FL-39

1 5/8 inch dielectric

49.0% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

0.1741 kilowatt (174.1 watts)