

**OUT-OF-CORE DISPLACEMENT APPLICATION**

**BMP 100.5 FM, LP**

**KNEX-LP LPTV STATION**

**CH 42 - 638-644 MHZ - 15.0 KW**

**LAREDO, TEXAS**

**August 2011**

**EXHIBIT C**

**Displacement LPTV Proposed Transmission System Calculations**

Effective Radiated Power:

Horizontal

15.0 kilowatts

Antenna:

Jampro Antennas

Model JA-SS Medium power

Horizontal gain (maximum):

Power gain 14.06 (11.48 dB)

Transmission Line:

(900 feet)

Andrew Corporation HJ7-50A

1 5/8 inch air dielectric

32.2% efficiency

Required Transmitter Power Output

To Reach Effective Radiated Power:

3.313 kilowatts