

**APPLICATION FOR STATION LICENSE**

**BMP 100.5 FM, LP**

**KNEX-LP LPTV STATION**

**CH 55 - (716-722) MHZ -9.56 KW**

**LAREDO, TEXAS**

**August 2010**

**EXHIBIT A**

**KNEX-LP LPTV Transmission System Calculations**

Effective Radiated Power:	9.56 kilowatt (maximum)
Antenna:	Micro Communications Model 955114 Double Doublet 4 bay panel
Horizontal gain (maximum):	Power gain 17.5 (12.43) <sup>1</sup>
Transmission Line: (450 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 54.7% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.9987 kilowatt (998.7 watts)
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Facilities Authorized:	Channel 55 - 716-722 MHz
Effective Radiated Power:	9.56 kilowatt (H)
Geographic Coordinates:	North Latitude 27° 24' 06" West Longitude 99° 26' 55"
Antenna Center of Radiation:	Above Ground 131.1 meters Above AMSL 283.2 meters
Antenna Structure Registration # :	1048738

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1) Data regarding the antenna and transmission line was retrieved from BPTTL-JE0415CH.