

APPLICATION FOR STATION LICENSE
BRAZOS VALLEY COMMUNICATIONS, LTD
KBXT RADIO STATION
NEW FM AUXILIARY ANTENNA SYSTEM
CH 270C3 - 101.9 MHZ - 0.13 KW
FRANKLIN, TEXAS
January 2009

EXHIBIT A

KBXT Transmission System Calculations

Effective Radiated Power:	
Horizontal/Vertical	0.130 kilowatt
Antenna:	SWR FM 3/1
	1 bay full wavelength spaced antenna
Horizontal gain	0.48
Transmission Line:	Andrew HJ7-50A
(235 feet)	1 5/8 inch air
	89.3% Efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	0.3033 kilowatt (303.3 watts)

Facilities Authorized:	Channel 270C3 - 101.9 MHz
Effective Radiated Power:	0.130 kilowatt (H/V)
Geographic Coordinates:	North Latitude 30° 39' 01"
	West Longitude 96° 20' 57"
Antenna Center of Radiation:	Above Ground 25.0 meters
	Above MSL 122.0 meters
	HAAT 35.0 meters
Antenna Structure Registration #:	1052210