

MODIFY BLH-20080314AEI
TOWNSQUARE MEDIA ROCHESTER LICENSE LLC
KFIL-FM (FM) RADIO STATION
CH 276C3 - 103.1 MHZ - 3.5 KW
CHATFIELD, MINNESOTA
November 2013

EXHIBIT A

KFIL-FM Transmission System Calculations

Effective Radiated Power:	3.5 kilowatts (Horizontal/Vertical)
Antenna:	Electronics Research, Inc. LPX 2-E 2 bay full wavelength spaced
Horizontal gain	0.9971 (power gain)
Transmission Line: (260 feet)	Andrew Corporation HJ7-50A 1 5/8 inch air dielectric 83.2% efficiency
Required Transmitter Power Output To Reach Effective Radiated Power:	4.21896 kilowatts (4,219 Watts)