

MODIFICATION OF STATION LICENSE
RADIO LICENSE HOLDING SRC, LLC
WRRM (FM) RADIO STATION
CH 253B - 98.5 MHZ - 18.0 KW
CINCINNATI, OHIO
July 2015

EXHIBIT A

WRRM Transmission System Calculations:

Effective Radiated Power:	18 Kilowatts (Horizontal/Vertical)
Antenna:	ERI SHPX-4AC-SP 4 bay full wavelength spaced
Power Gain:	Horizontal 2.031 Maximum 2.061
Transmission Line: (177 feet)	Rigid Match 3-1/8 inch air dielectric 0.092 dB/100 feet Loss
(666 feet)	Semiflexible 3 inch 0.126 dB/100 feet Loss
Line Loss	2.268 Kilowatts 1.003 dB 79.387% efficiency
Combiner loss:	0.503 Kilowatt 0.194 db
Required Transmitter Power Output To Reach Effective Radiated Power:	11.504 Kilowatts (10.608 dBk)