

# Exhibit 1

## Transmitter Output Power Calculation

**Date** 2020-01-17

**File No.** 0000094010 **Facility ID** 196993

WZFN LP Sandy Springs SC

104.3 MHz **Channel** 282

**ERP** 0.037 kW

**Antenna** Dielectric **Model** DCR-L1 **Bays:** 1 **Spacing:** Full Wave

**Antenna Power Gain** 0.460 -3.372 dB

**Antenna Input Power** 0.080 kW For 0.037 kW ERP

## Transmission Line Losses

**Manufacturer** RFS LCF50 Series

**Type** 1/2 inch Foam Dielectric

**Loss per 100 feet** -0.671 dB At: 104.3 MHz

**Transmission Line Length** 135 ft

**Transmission Line Loss** -0.906 dB

**Efficiency** 81.2%

## Additional System Losses

**Filter** -0.2 dB

**Isolator** -0.5 dB

**Misc** -0.3 dB

**Total Losses** -1.906 dB

**System Efficiency** 64.47%



Transmitter Output 0.124 kW For 0.037 kW ERP

