

Table I  
**ANTENNA / LINE SYSTEM GAINS AND LOSSES**  
prepared February 2023 for  
**The Curators of the University of Missouri**  
WUKY(FM) Columbia, MO  
Facility ID 69180  
Chan 217C1 100 kW 186 m

**Proposed Effective Radiated Power: 100.000 kW 20.00 dBk**

## Antenna System

ERI SHPX-8

|                 |       |         |
|-----------------|-------|---------|
| Max Power Gain: | 4.487 | 6.52 dB |
|-----------------|-------|---------|

**Antenna Input Power:** 22.284 kW 13.48 dBk

### **Line and Other Losses**

720 feet, ERI MACX 450 Loss: 0.51 dB  
4-1/16" air-dielectric cable at 0.071 dB/100 feet

|   |       |         |
|---|-------|---------|
| 14 feet, ERI MACX 350                                     | Loss: | 0.01 dB |
| 3-1/8" air-dielectric hardline Cable at 0.092 dB/100 feet |       |         |

**Total Loss:** 0.52 dB

**Transmitter Power Output:** 25.0 kW 14.00 dBk  
(Rounded per § 73.212(a))