

**WYTJ - New Antenna Information**

**New Antenna:** ERI model 101-4F  
1.92 power gain (2.833 db)  
4 bay, full wave spacing

**Center of Radiation:** 49.6m (162.74 ft)

**Feed line Type:** Andrew LDF5-50A  
.34 db loss / 100 FT @89 MHz

**Feed line Length:** 175 ft (.595 db loss)

**Connector Loss:** 7 type N connectors @ .1db = .7db loss

**Total System Gain:** +2.833 db (ant gain)

-.595 db (feed line loss)

-.7 db (connector loss)

-----  
+1.538 Total System Gain (1.425 power gain)

**Transmitter:** 1000 watts (licensed ERP) / 1.425 (power gain)  
**Power Output** = 701.75 watts