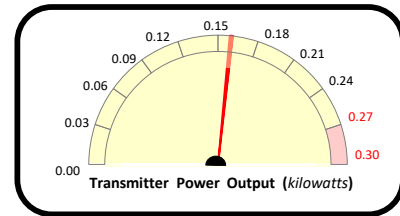


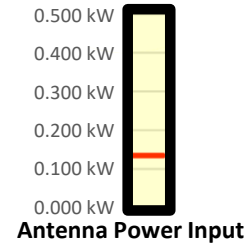
# Transmitter Power Output Worksheet

**Call letters:** WELT-LP (FM)  
**City of License:** Fort Wayne, IN  
**Channel:** CH239L1 (95.7 MHz)  
**File No:** License Modification (Pending)  
**Facility ID:** 193114  
**Applicant:** Allen County Public Library



**Effective Radiated Power (ERP):** 0.093 kW

**Antenna Make:** Jampro Antennas, Inc. (JAM)  
**Antenna Model:** JLCF-2 (RFR0.5)  
**No of Elements:** Two (2)  
**Antenna COR AGL:** 34 meters AGL  
**Antenna COR AMSL:** 272 meters AMSL  
**Max Input Power:** 0.500 kW  
**Power Gain:** 0.7  
**Antenna Gain:** -1.549 dBd  
**Calculated Antenna Input Power:** 0.133 kW  
**Transmitter Rated Power:** 0.300 kW  
**Transmitter Make/Model:** Crown 300



**Power Gain to Antenna gain (dBd) Conversion:**  
 $= \text{Log}[\text{power gain}] * 10$

## Inventory of System / Insertion Losses

Explanation	Component Make/Model	Length	Loss
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Main Feedline	Cablewave LCF12-50J (0.658 dB/100 ft)	85 ft	-0.559 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Lightning Arrestor	Polyphaser IS-B50 Series (or equivalent)	n/a	-0.100 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd
Jumper to Transmitter	Cablewave LCF12-50J (0.658 dB/100 ft)	10 ft	-0.066 dBd
Typical End Connector	Generic (1@0.02 dB each)	n/a	-0.020 dBd

**TOTAL SYSTEM GAIN/LOSS:** -2.35 dBd  
**CALCULATED TRANSMITTER POWER OUTPUT:** 0.160 kW  
 $(1 / [10^{(-2.35/10)} \text{ dB/10}]/\text{ERP}])$