

**Educational Media Foundation**  
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*Morgantown, IN*  
**WBKC**

## **Transmitter Power Output Calculation**

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 3.2 KILOWATTS

2 BAY ERI LPX-2E-DA-HW ANTENNA GAIN: 1.419

347 FEET RFS CABLEWAVE 1-5/8 INCH AIR COAX (HCA158-50) EFFICIENCY: 0.864

TPO: 2,610.08 WATTS

CONFIRMATION:  $2,610.08 \times 1.419 \times 0.864 = 3,199.9998$  WATTS

NOTE: TPO IS SHOWN AS 2.610 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM