

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Utica, NY
WKVU

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 50 KILOWATTS

5 BAY Phelps Dodge CFM-HP5 ANTENNA GAIN: 2.715

132 FEET RFS 3-INCH Air COAX (HCA300-50) EFFICIENCY: 0.961

TPO: 19163.585WATTS

CONFIRMATION: $19,163.585 \times 2.715 \times 0.961 = 49,999.996$ WATTS

NOTE: TPO IS SHOWN AS 19.2 KILOWATTS (100.19%) RATHER THAN 19.1 KILOWATTS (99.668%) DUE TO ROUNDING AND RESOLUTION OF THE FORM