

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Dekalb, IL
WCLR

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 20 KILOWATTS

ERI SHPX-8AC-HW ANTENNA GAIN: 2.519

480 FEET ANDREW 3-INCH AIR COAX (HJ8-50B) EFFICIENCY: 0.858

15' 3-1/8" HARDLINE EFFICIENCY: .997

TPO: 9,281.5257 WATTS

CONFIRMATION: $9,281.5257 \times 2.519 \times .858 \times .997 = 19,999.998$ WATTS

NOTE: TPO SHOWN AS 9.28 KW DUE TO ROUNDING AND THE RESOLUTION OF THE FORM