

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Oil City, PA
WLOQ

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 6 KILOWATTS

5 BAY SHIVELY 6813 ANTENNA GAIN: 2.7

276 FEET RFS 1-5/8-INCH AIR COAX (HCA158-50) EFFICIENCY: 0.887

TPO: 2,505.3237 KILOWATTS

CONFIRMATION: $2,505.3237 \times 2.7 \times 0.887 = 5,999.9996$ WATTS

NOTE: TPO IS SHOWN AS 2.505KW DUE TO ROUNDING AND RESOLUTION OF THE FORM