



402 Tenth Avenue • PO Box 367 • Haddon Heights, NJ 08035

Engineering Report
Transmitter Power Calculation
WIBG-FM Avalon, NJ
August 2023

Effective Radiated Power	6000 Watts
Antenna Type	Shively 6810-3R-SS-EF
Antenna Gain	2.05 X
Antenna Input Power	2926.8 Watts
Transmission Line	HCA158-50
Length	97 m
Efficiency	87.8%
Hardline, Fittings and Switch	0.18 db
Efficiency	95.9%
Transmitter Power Input Required	3476 Watts
For Rated ERP (Per §73.212)	3500 Watts