

W286DH License Application

60 Watts – 500 M AMSL

Caguas, PR

July 2021

Transmitter Power Output Calculation

Given:

ERP = 60 Watts

Antenna power gain = 3.2

Transmission Line Efficiency = 85%

Connector Efficiency = 99.26%

60 Watts divided by the antenna gain of 3.2 = an antenna input of 18.75 Watts

18.75 Watts divided by the transmission line efficiency of 85% = 22.05 Watts

22.05 divided by the connector efficiency of 99.26% = 22.21 Watts

Per 73.212(a) 22.21 rounds to 22 Watts TPO.

Bromo Communications, Inc.