

EXHIBIT #12
TRANSMITTER OUTPUT POWER

Northern Arizona University
K228EA
Payson, Arizona
License to Cover
BMPFT-20060706AET

CH 228D

0.01 kW H & V

Transmission line efficiency = 91.3% - Andrew 1/2" Heliax HJ4-50 Air line

Power Gain of Antenna = 0.46 – Shively 6812

ERP = 0.01 kW H & V

TPO = ERP/(efficiency*gain)

TPO = 0.01/(0.913*0.46)

TPO = 0.0238 kW