

EXHIBIT #12
TRANSMITTER OUTPUT POWER

Northern Arizona University
K291AL
Prescott, Arizona
License to Cover
BNPFT-20030828ARG

CH 291D

0.01 kW H & V

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

Power Gain of Antenna = 0.46 – Bext TFC2K

ERP = 0.01 kW H & V

TPO = ERP/(efficiency*gain)

TPO = 0.01/(0.913*0.46)

TPO = 0.0238 kW