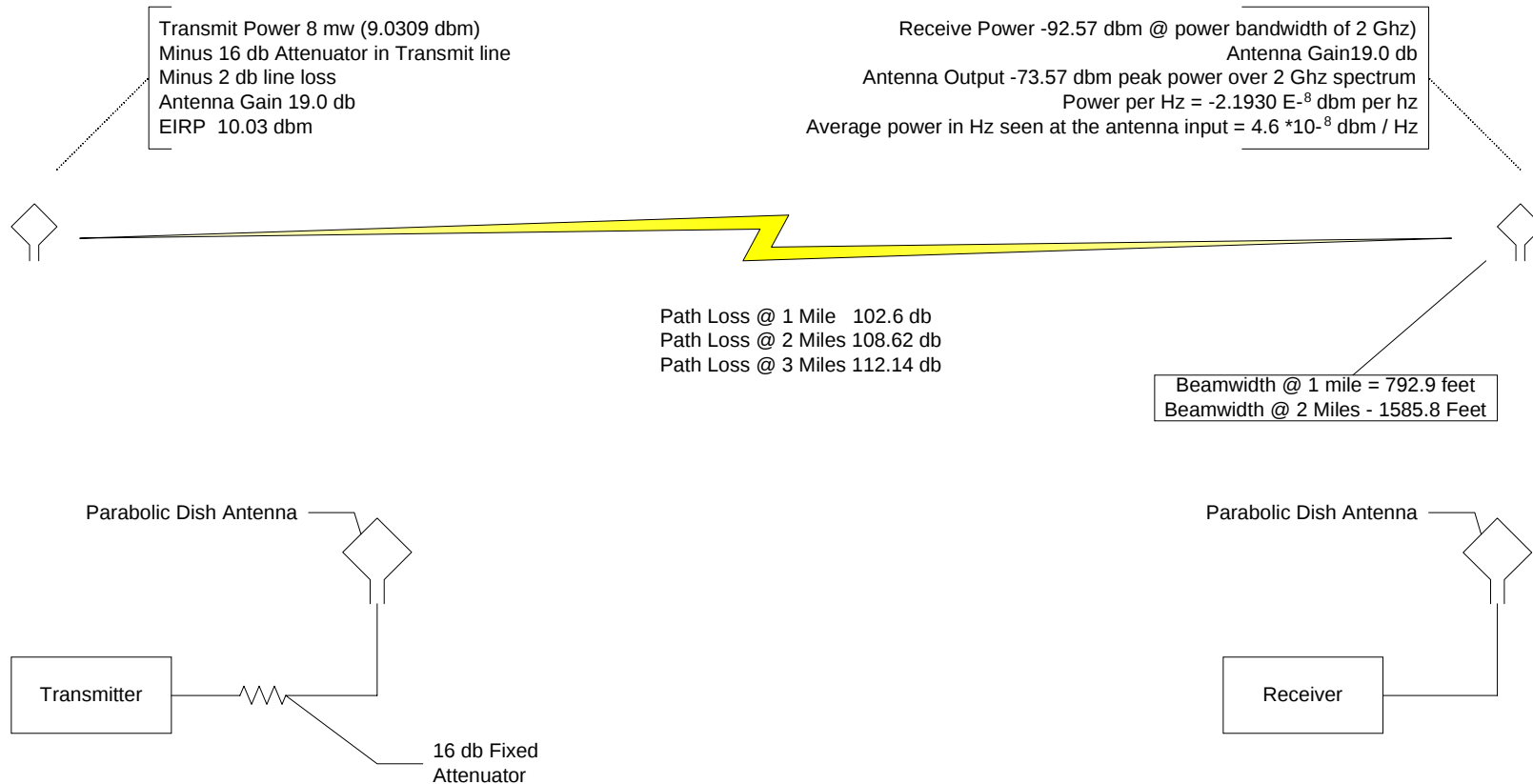


STA 0132-EX-ST-2002 - Exhibit A



Formulas

Path Loss = $96.58 + 20 \log F(\text{ghz}) + 20 \log D(\text{miles})$

Conversion to DBM for MW = $\text{dbm} = 10 \log (P2/P1)$ where $P1 = 1 \text{ milliwatt}$

Beam Size = $2 \cdot \text{Path Length} \cdot \sin(21/fd)$ Where f = frequency in Ghz and d = dish diameter in meters

Power Bandwidth = 2 GHz