

**Exhibit E-7**

The transmitter power output achieves the authorized effective radiated power. This exhibit demonstrates this fact through an explanation of the appropriate calculations.

The specified transmitter power output is 420 watts or 0.42 kW. The transmission line utilized by the facility is Andrew 7/8" foam dielectric semi-flexible coaxial cable of 110 feet in length. The fractional efficiency of this length of transmission line is 0.9058. Utilizing these two figures, the antenna input power is therefore 0.38 kW.

The technical data from Electronics Research Inc., the manufacturer of the utilized antenna, indicates that the power gain of the antenna is 1.082. This data is contained in Exhibit E-9 of this application. Since the antenna input power is 0.38 kW, the effective radiated power is therefore 0.41 kW. This value is the authorized effective radiated power for the facility.