

Exhibit E-7

This exhibit has been included to demonstrate the basis for determining the transmitter power output for the facility. The loss and gain values contained in this exhibit were obtained from the manufacturer of the individual components.

The effective radiated power authorized for the facility is 74 kW horizontally polarized only. The Shively 6600-10R-SS antenna has a power gain of 6.238. Therefore, the antenna power input required to achieve the effective radiated power of 74 kW is 11.86 kW.

The transmission line utilized is Andrew 4" air dielectric semi-flexible coax with a model number of HJ11-50. Within the system, there are 200 feet of this transmission line, which has a fractional efficiency value of 0.948 for the line run. Therefore, using the required antenna input power and dividing by the fractional efficiency of the transmission line yields an input power at the transmission line of 12.51 kW.

Finally, a combiner is being utilized in the system to accommodate future growth at the site for additional stations. The insertion loss of this combiner is 0.1898 dB. Using this insertion loss value as well as the value of the transmission line input power yields a required transmitter power output of 13.06

kW. This value, according to the provisions of Section 73.212 of the Commission's Rules, rounds to 13.0 kW.