



815 Broadhallow RD  
Farmingdale, N.Y 11735

## **16 DC Voltages applied to and DC currents into the final RF stages of the transmitter.**

Pulse width selection is made depending on the operation mode selected on the radar indicator. Modulator long pulse is selected for modes using a 200-Hz trigger; modulator short pulse is selected for modes using an 1536 Hz trigger. With either modulator pulse, a negative-going, 330-volt, 110-ampere pulse generated in the Pulse modulator is applied to the pulse transformer. The pulse transformer supplies the magnetron with a 5.5 kV, 4.5 A, negative-going pulse that causes the magnetron to oscillate at its 9375 MHz resonant frequency. A 10-kW nominal peak power RF output pulse is generated by the magnetron and is directed through the four-port, E-plane circulator to the radar antenna.

Additional details are found Sub-folder 8-Operational Description that contains the word document MAINTMANSECT1.doc. This document provides a detailed description on how the R/T works and a block diagram functional description of the R/T's Circuits.