

## **Exhibit 2**

# **SUMMARY OF TECHNICAL CHARACTERISTICS OF EMISSION-RELATED ELEMENTS OF THE TDR 2070 RADAR**

Specific details of the operation of the radar are contained in exhibits 3 through 6.

### **Transmitter Type**

The radio frequency transmitting portion of the TDR 2070 is a Travelling Wave Tube (TWT), driven by a coherent frequency synthesizer. Selection of the operating frequency is fixed, and is not alterable by operational personnel. The RF energy produced by the TWT is routed to an antenna via wave guide.

### **Operating Frequency**

The RADAR operates at one frequency within the range of 5450 MHz to 5825 MHz.

### **Operating RF Power**

The peak RF power of the TWT is nominally 7.5 kW, with an absolute maximum of 10 kW, measured at the output wave guide flange of the transmitter cabinet. Power level is determined by the TWT design.

### **Pulse Duration and Repetition Rate**

The duration of the pulsed output of the RF transmitter is variable between 0.5 and 20 microseconds. The repetition rate is variable between 160 and 3000 pulses per second. These values are controlled by the pop-up screens of the Windows® operating system.