

## **Description**

### **1. Transmitter Technical Characteristics -- Pursuant 2.983 (d)**

#### **A. Specific Operating Power Levels:**

RATED: 10 to 30 watts, variable

MEASURED: Refer to Exhibit 6A

**MAXIMUM POWER RATING:** 30 watts

#### **Means provided for variation of operating power:**

Output power is continuously variable over the range of 10 to 30 watts. The output power is field programmable to any power level within this range.

#### **B. Frequency Range:** 450 to 474 MHz

#### **C. Frequency Stability:**

RATED:  $\pm 0.00025\%$

MEASURED: Refer to Exhibits 6H and 6J

#### **D. Types of Emissions:** 11K0F3E, or 16K0F3E, programmable per channel.

#### **E. Spurious Emissions:**

RATED: 5 uW (-23dBm) maximum which corresponds to -63 dBc at the 10 watt setting, and -67.8 dBc at the 30 watt setting.

MEASURED: Refer to Exhibits 6F and 6G.

#### **F. DC Operating Voltages and Currents of the Final Stage:** Refer to Exhibit 6A.

### **2. Transmitter Application**

The transmitter is characterized by the following features, options, accessories, and installations:

#### **A. Power Supply:** Vehicular battery; AC-DC Converter

#### **B. Antenna:** Whip, roof top, 1/4 wave, or other external 50 ohm antenna

**Description (continued)**

**2. Transmitter Application (continued)**

**C. Squelch Types:**

1. Carrier Squelch (CSQ)
2. Private Line (PL)
3. Digital Private Line (DPL)

**D. Microphones Available:**

1. Hand-held conventional
2. Hand-held conventional with DTMF
3. Base Station
4. Telephone Style Handset

**E. Maximum Transmit Channel Capability:** 24 channels, 4 channels (2 models).

**F. Housing Style:** The transmitter is enclosed in a dash-mount housing, the style of which is shown in the accompanying photographs. the transmitter circuitry is contained in a single pc board which is mounted to a cast metal chassis which also serves as a heat sink. The transmitter frequency generation circuitry is contained within metal shields which are soldered to the pc board. The remainder of the transmitter circuitry is contained in a metal shielded housing which is soldered to the pc board and which has a removable cover to allow for servicing. A plastic housing encloses the top and front of the chassis.

**G. Available Accessories:**

1. External Speaker
2. Ignition Switch Cable
3. AC-DC Converter
4. GR300 Repeater

**H. Programmability:** Programming is accomplished by the use of an IBM PC computer or equivalent, Radio Interface Box, and Radio Service Software. Adjustment of the transmitter, including programming of the channel frequencies, output power adjustment, frequency adjustment, and deviation adjustment are performed in this manner. **It should be noted that the transmitter is NOT programmable by the operator.**