

OPERATIONAL DESCRIPTION**A. Transmitter Technical Characteristics -- Pursuant 2.983 (d)**

- | | |
|-------------------------------------|-------------------------------------|
| a. RF Power Out: | 1W to 4W (Variable Power) |
| b. Transmit Frequency Range: | 450 – 512 MHz |
| c. Receive Frequency Range: | 450 – 512 MHz |
| d. Frequency Stability: | 2.5 PPM |
| e. Emissions | 16K0F3E & 11K0F3E (See Exhibit 8-5) |
| f. Spurious Emissions | 25uW |
| g. DC Voltage and Current into | 7.5 VDC |
| the final RF amplifier stage/stages | 1.5 A |

B. Transmitter Application

This transmitter is primarily intended for use in a portable environment. It is characterized by the following features, options, and accessories.

- a. Power Supply Available:
 - i. NiCd AFAT Battery
 - ii. NiCd Battery
 - iii. NiMH AA Battery
 - iv. NiMH AA FM Battery
- b. Antenna Available:
 - i. Helical Antenna
 - ii. Whip antenna
- c. Squelch Type Available:
 - i. Carrier Squelch
 - ii. Tone “Private Line”
 - iii. Digital “Private Line”
 - iv. DTMF
 - v. Quick Call II
- d. Microphone - Control:
 - i. Handset/Palm Microphone
- e. Maximum Transmit Channel Capability:
 - i. 16 Channel
- f. Housing:
 - i. The transmitter will be housed in the housing shown in the accompanying photographs
- g. Other Options:
 - i. Time out Timer
- h. The minimum voltage for the micro-P to operate is 3.3V.