OPERATIONAL DESCRIPTION P44- UHF1 FLN2582A

I. Transmitter Technical Characteristics

A. Specific Operating Power Levels:

RATED: 0.25 to 4 Watts, variable, not user adjustable
MEASURED: Refer to Exhibit 6A
Maximum Power Rating: 4 Watts
Means provided for variation of operating power: Factory set or performed by authorized personnel using published Tune-up Procedure

B. Frequency Range:

438-470 MHz

C. Frequency Stability:

RATED: ± 0.00025% (± 2.5 ppm)
MEASURED: Refer to Exhibits 6F-1 and 6F-2.

D. Types of Emissions:

F2D Data radio

E. Spurious Emissions:

RATED: 1.567 uW (-58.05 dBm) maximum, which corresponds to –57.6dBc at the 4.0 Watt setting.   Refer to Exhibit 6E.

F. DC Operating Voltages and Currents:

Refer to Exhibit 6A.

II. Transmitter Application

The following features, options, accessories, and installations characterize the transmitter.

A. Power Supply:

115 Vac (Nominal) or 12 Vdc battery (backup)

B. Antenna

External 50-ohm antenna, Type-N Connector provided

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C. Transmission Modes

DPSK 1200 BPS
FSK   2400 BPS
DFM   4800 BPS
Dual Binary (COS) 9600 BPS

D. Maximum Transmit Channel Capability:

1 Channel, 12.5 Channel Bandwidth, Full Duplex

E. Housing Style:

The transmitter assembly is shielded with a metal can and is mounted on the communication module of the MOSCAD-L can as shown in the accompanying photographs. The communication module is housed in the MOSCAD-L Plastic Chassis. The transmitter circuitry is contained on a single printed circuit board that is mounted inside the metal can on a carrier board, and secured to it with screws.   A fitted cover completes the shielding enclosure, as shown in the accompanying photographs.

F. Programmability:

Programming is accomplished by the use of an IBM PC computer or through a link with another terminal, using the MOSCAD-L Toolbox Software. This provides means for adjustment of the transmitter, including programming of the channel frequencies, communication protocols and data rates.

NOTE: The transmitter power is NOT programmable by the operator.

EXHIBIT 12
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