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DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

CALIBRATION PROCEDURE FOR SIGNAL GENERATOR, SG1112VIU, SG1112V2U, AND MIS-28707TY2 (HEWLETT- PACKARD, MODEL 8640B, OPTIONS 001, 002, 003, 004, AND H66)

Headquarters, Department of the Army, Washington, DC

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REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

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SECTION I IDENTIFICATION AND DESCRIPTION

1. Test Instrument Identification. This bulletin provides instructions for the calibration of Signal Generator, SG1112V1U (8460BOPT004), SG1112V2U (8640BOPT001), MIS-28707TY2 (8640BH66) and Hewlett-Packard, Model 8640B, Options 001, 002, 003, 004, and H66. The manufacturers' manuals were used as the prime data sources in compiling these instructions. The equipment being calibrated will be referred to as the TI (test instrument) throughout this bulletin.

a. Model Variations. Option variations are as listed below in (1) through (5).

(1) Option 001 provides a modulation oscillator that is continuously adjustable from 20 Hz to 600 kHz. The oscillator can also be set for 400 Hz or 1 kHz fixed tones.

(2) Option 002 provides an internal, active frequency doubler that extends the frequency range of the generator to 1024 MHz (to 1100 MHz with over range).

(3) Option 003 protects the generator output circuits from accidental applications of reverse power up to 50 W.

(4) Option 004 provides a demodulated output and modified AM circuitry for setting very accurate AM depths. It also has a 1 dB output step attenuator in addition to the standard 10 dB output step attenuator.

(5) Option H66 which includes option 001 provides an additional control for very fine adjustment of the output level and improved harmonic content in the RF output signal.