

AMARS
NO. 1A AUTOMATIC MESSAGE ACCOUNTING AND RECORDING CENTER
PREPARATION FOR THE INSTALLATION OF THE PDP-11 MINICOMPUTER

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1. GENERAL INFORMATION

- 1.1 The Recording Facility (No. 1A AMARC) is a fully duplicated minicomputer system which will receive and store call information transmitted by a number of Scan Controls (and other units, i.e., BDT) located in the central offices. The Recording Facility may or may not be located in the same building as a central office (CO). In most cases, the Recording Facility will be remote to the CO's requiring data transmission through a dedicated line equipped with Data Sets at each end, for each Reporting Scan Control.
- 1.2 The basic No. 1A AMARC consists of 10 cabinets and two control consoles manufactured by the Digital Equipment Corporation (DEC) and arranged to operate in duplex. Up to 5 similar cabinets (KS20018-L15A) contain equipment manufactured by Western Electric. Note: See floor plan data sheets for location of cabinets.
- 1.21 Two sets of five Digital Equipment Corporation (DEC) cabinets containing a PDP 11/70 processor cabinet, a memory cabinet, a tape drive cabinet, a basic asynchronous channel cabinet, and a disk drive make up the basic ten cabinets.
- 1.22 The Processor Interface Cabinet, "D" cabinet, contains a Control unit, an Alarm unit, an Automatic Call unit, an Isolation Pulse unit, and a Power Transfer and Static Filter unit.

1.23 The Supplementary Processor Interface Cabinet, "V0" cabinet, contains two Asynchronous Interface units, a TTY Interface unit, and a Power Transfer and Static Filter unit.

1.24 The optional Supplementary Processor Interface Cabinet, "V1" cabinet, contains an Asynchronous Interface unit, an Automatic Call unit, and a Power Transfer and Static Filter unit.

1.25 The Data Format Converter Cabinets (Generic 4 only), "W0" and "W1" cabinets, contain two Protocol Converter units, two Fuse units, and four Power Supply units.

1.26 The two control consoles are LA36 DEC-writer II's for old Generic 3 #1A AMARC and LA120 DEC-writer's for new Generic 3 and Generic 4.

1.27 The data sets associated with the No. 1A AMARC are housed in their own separate cabinet. The data set cabinet is provided, installed, and maintained by the Telephone Company.

1.28 The 1A AMARC equipment requires 117VAC, three phase, four wire, 60 cycle Uninterruptable Power Supply which is obtained from two DC to AC inverters located in the power room. These inverters are powered by a -48 volt battery supply.

2. EQUIPMENT REQUIRED

2.1 Initial testing of the Recording Facility will be performed by using DEC's Diagnostic programs. Material required for this testing is shipped along with the DEC hardware.

3. INVERTER INSTALLATION

- 3.1 Each PDP-11 processor and peripheral equipment is powered by its own inverter. These inverters must be installed and tested prior to DEC Diagnostic Testing. Testing of the Inverters should be performed according to the procedure given in documentation shipped with the inverters. Six outlets should be provided at the Power Distribution Circuits for DEC

equipment for each subsystem. In order to avoid delays, make sure that the power connections on the DEC hardware properly match the outlets provided. Additional outlets will be required for the Western Electric equipment which can be up to three outlets per subsystem for Generic 3 #1A AMARC's or up to five outlets per subsystem for Generic 4 #1A AMARC's.

Manager, Product Engineering
Control Center

Reason for Reissue:
Addition of Generic 4 information.