NO. 11A ANNOUNCEMENT SYSTEM EQUIPMENT DESIGN REQUIREMENTS COMMON SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits for a portable recorded announcement system arranged to handle intercept service.

Description

1.02 ***General:*** This system provides recorded announcement facilities suitable for handling heavy intercept traffic which within a few months decreases to only a few calls per day. Such traffic is frequently associated with changed numbers, particularly PBX numbers, and heavy vacant code traffic after occurrences such as cutovers from manual to dial switching systems, conversions to 7-digit dialing, and changes in office designations. By means of this system, calling subscribers would be informed of the correct exchange or line number. The system consists basically of a cabinet containing from two to twenty intercept trunks, an announcement machine, and suitable alarm and control equipment.

1.03 ***Cabinet:*** The portable cabinet for this system, measuring 10 inches by 25-3/4 inches by 41-9/16 inches high, is fabricated of aluminum sheet and will weigh approximately 120 pounds when fully equipped. Handles are provided for ease of moving and handling. The cabinet is provided with removable front and rear covers to facilitate installing and maintenance. When in use, the front cover may be left off or the cover door may be opened so that the alarm lamps and message register can be seen. Two holes are provided near the bottom to provide entrance for cable and the ac power supply. Either the 6-foot cord on the announcement set or a 20-foot auxiliary cord may be used depending upon location of the ac receptacle. When not in use, the cords are coiled up and laid in the bottom of the cabinet. The cabinet will usually be located close to the MDF, CDF, or IDF as required in an area with adequate illumination for personal safety and for reading the message register.

1.04 ***Trunks:*** The intercept trunk is a universal type and the equipment is designed as a 2-circuit plug-in unit. Space is provided in the cabinet for a total of ten 2-trunk units. Optional wiring for the trunks is brought out to a common terminal strip to facilitate changes.

1.05 ***Control and Alarm:*** The control and alarm circuits are arranged to provide start-stop control of the announcement set, and suitable alarms for voice failure and power failure with connections to the central office alarm circuits. In addition, the control circuit provides means of testing and monitoring the announcements. Busy tone is furnished by a transistorized circuit which is part of the system.

1.06 ***Announcement Machine:*** The announcement machine is a KS-16765 announcement set used in conjunction with KS-16754 amplifier. Recordings can be made on the machine while in the cabinet if noise conditions permit, or by removing the machine from the cabinet and making the recording in some quiet location.

1.07 ***Power Requirements:*** Five amperes of 48-volt dc signal battery is required. This power is distributed through a 22A fuse block located within the cabinet.

2. SUPPLEMENTARY INFORMATION

800-600-000 — List of General Equipment Requirement Sections
801-000-000 — Equipment Design and General Equipment Requirements and Engineering Information — Common Systems
KS-16754 — Amplifiers
KS-16765 — Announcement Sets

3. DRAWINGS

WECo J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

Circuits

SD-95281-01 — KS-16754 Amplifier Circuit
SD-95283-01 — KS-16765 Announcement Set Circuit
SD-95959-01 — Voice Alarm Circuit
SD-95963-01 — Busy-Tone Circuit
SD-95966-01 — Intercepting Trunk Circuit
SD-95967-01 — Control and Alarm Circuit

Equipment

J99276A-( ) — No. 11A Announcement System
J99276B-( ) — No. 11A Intercepting Trunks

4. EQUIPMENT

J99276A — AT&TCo Std — No. 11A Announcement System

Equipment — J99276A-( )

List 1 — Cabinet, framework, assembly, local cable, and common equipment for 20 intercept trunks.

	WIRE	EQUIP	NOTES
Amplifier Circuit, SD-95281-01, Fig. 4	1	1	A,D
Announcement Set Circuit, SD-95283-01, Fig. 1, 2, and 3	1	1	B,D
Voice Alarm Circuit SD-95959-01, Fig. 1	1	1	E
Busy-Tone Circuit, SD-95963-01, Fig. 1, 2, 3, 4, 5, and 6	1	1	E
Intercepting Trunk Circuit, SD-95966-01, Fig. 3 and 4	10	10	C,E
Control and Alarm Circuit, SD-95967-01, Fig. 1	1	1	E

Notes

A. The amplifier shall be shop wired with "V" and "Z" wiring options. The "CG" lead is omitted and a strap is placed between terminals 12 and 21 of TB1.
B. The announcement set shall be shop wired with "N," "S," "V," "W," and "Z" wiring options and "X" wiring omitted. Straps are provided between terminal 27 and 28 and 27 and 37 of TB1.
C. This includes only the wiring from the trunk unit connectors to the system terminal strip and the connectors. The trunks are furnished per J99276B.
D. Connections between the amplifier and the announcement set are made with 22H stranded wire equipped with 144-type cord tips.
E. 24 gauge, C type wire shall be used for local cable.

J99276B — AT&TCo Std — No. 11A Intercepting Trunks

Equipment — J99276B-( )

List 1 — Framework, assembly, wiring, and equipment for two intercepting trunks per SD-95966-01, Fig. 1 and 2.

Miscellaneous Equipment

4.01 The following additional items are required to connect the portable set for operation. They shall be ordered by the telephone company.

(a) 257A or 257M switchboard cable, 40 pairs.
(b) 48-volt battery and ground supply leads, 20AM gauge or larger.
(c) Alarm leads connecting to central office alarms.
(d) A terminal strip to be mounted on distributing frame for terminating the cable and cross connecting to lines involved.

4.02 The length of switchboard cable will depend on the location of the set with respect to the distributing frame. The type of cable will depend on whether the distributing frame is arranged for solderless wrap connecting. Existing spare terminal strips may be used. The alarm leads may vary from one to five and may be terminated at the distributing frame as part of the switchboard cable per 4.01, or they can be run as separate 22 gauge, type AM or BH wires to the alarm equipment terminations.

4.03 Battery may be obtained from a PBX battery feeder at the MDF or CDF or any suitable source. The regular 1-1/3 ampere fuse at the fuse bay may be replaced by a 5-ampere fuse using a 35H fuse if the fuse posts are equipped with a No. 6 screw or by replacing the existing fuse post with a No. 6 type. As an alternate, a P-422002 fuse adapter equipped with a 5-ampere Buss cartridge fuse may be used per

ED-90352-01. The battery supply leads from the fuse to the cabinet should be 20 gauge or heavier wire.

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4.04 Where ac power is used, it should be obtained from a source having access to an emerging supply.