

7A ANNOUNCEMENT SYSTEM FOR MACHINE INTERCEPT SERVICE ENGINEERING INFORMATION NO. 5 CROSSBAR AND STEP-BY-STEP SYSTEMS

1. GENERAL

A. Introduction

1.01 The 7A Announcement System has been developed to provide machine intercept service in small dial offices. The system is suitable for either step-by-step or No. 5 crossbar toll offices where continuous operation is not expected. All intercept calls are routed to the announcement system and operator attention is not required.

1.02 This section is reissued to describe the apparatus which presently comprises the 7A Announcement System and to generally bring the section up to date. Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The 7A system consists of intercept trunks and equipment elements required to reproduce a recorded announcement over the intercept trunks to calling customers or operators. Means for erasing old recordings and for recording and checking new recordings are included.

1.04 The 7A system uses a KS-16765, L2 announcement set and a KS-16754 amplifier. The announcement set, arranged for intercept service, operates on a call-demand basis.

B. Applications

1.05 Intercept calls from any of the following sources may be served by this system.

- (a) Vacant terminal per station connector terminals.
 - (b) Vacant terminal per line connector terminals.
 - (c) Vacant stations of terminal per line connector terminals where a party identifying circuit is provided to identify a particular party on a multiparty line.
 - (d) Vacant levels of local selectors.
 - (e) Vacant levels of toll selectors including toll-preceding-type switches.
 - (f) Vacant levels of intertoll selectors.
- This intercept service may be used in smaller dial offices such as small No. 1 step-by-step, all types of community dial offices, and No. 5 toll offices.

1.06 The 7A system operates on a call-demand basis and has not been designed for continuous operation of the announcement machine. Therefore, it is not expected that this system will be used in offices where the amount of traffic going to the intercept system will be great enough to keep the machine operating over extended periods of time.

2. ANNOUNCEMENT SYSTEM FACILITIES

2.01 The 7A system includes a KS-16765, L2 announcement set and a KS-16754 amplifier. They are installed on a common mounting panel which will fit the standard 23-inch equipment rack, occupying 10 inches of vertical space. Primary power for operation of the system is obtained from a commercial 115-volt, 60-cycle supply.

3. KS-16765 ANNOUNCEMENT SET

3.01 The KS-16765, L2 announcement set consists of a power supply, control circuitry, a KS-16765, L3 recorder, and a KS-16765, L4 amplifier.

3.02 The maximum time duration of a recording is two minutes. The reproduction cycle, however, is automatically controlled by the actual length of the recording. The recording is automatically started when an intercept trunk is seized and recycles as long as an intercept trunk is connected. The recycle and stop process is begun on disconnect regardless of the

point in the announcement the disconnect occurs.

3.03 The KS-16765, L4 amplifier, a plug-in type amplifier, supplies amplification for both the record and reproduce functions.

3.04 Control circuitry allows an operator to monitor the recording, erase an old recording, produce a new announcement either at the announcement set or from another local area, and to check the new recording for quality.

3.05 The power supply provides 48-volts dc, 48-volts ac, and 10-volts ac for operation of the announcement set.

4. KS-16754 AMPLIFIER

4.01 The KS-16754 amplifier produces the recording with sufficient signal power to

service the intercept trunks connected to the announcement system.

5. INTERCEPT TRUNKS

5.01 The intercept trunks provide a transmission path between the calling customer and the 7A announcement set. When two or more customers are connected to the system, talk through suppression is provided to prevent interference between the trunks.

5.02 The number of intercept trunk circuits needed in an office varies with the size of the office and volume of traffic handled. Table A shows the type and number of trunk circuits supplied on relay rack mounted units of one 2- by 23-inch mounting panel each and the recommended number of trunk circuits required to handle the intercept traffic.

TABLE A

TYPE OF TRUNK	MOUNTING SPACE REQUIRED FOR TRUNK TERMINATION		RECOMMENDED MINIMUM NUMBER OF TRUNKS PER OFFICE
	NUMBER OF TRUNKS	NUMBER OF 2- BY 23-INCH MOUNTING PLATES	
Intercept trunk for connector terminals in all offices, and toll transmission and toll intermediate selector levels except in 360A offices	4	1	One trunk per connector group — Two trunks for vacant toll selector levels
Intercept trunk for toll transmission and toll intermediate selector levels in 360A offices only	2	1	2
Intercept trunk for local and toll preceding selector levels	2	1	2
Intercept trunk for intertoll selector levels	2	1	2
Intercept trunk No. 5 crossbar	2	3	2

6. REFERENCES

6.01 Reference may be made to the following sections.

951-116-100 — General Descriptive Information 7A Announcement

System Machine Intercept
in Small Offices

814-524-150 — Intercept Trunk Equipment Engineering and Connection Information