SWITCHING SYSTEMS MANAGEMENT
NO. 3 ELECTRONIC SWITCHING SYSTEM
OPERATIONAL FEATURES
RECORDED ANNOUNCEMENT EQUIPMENT

CONTENTS PAGE

Figures

1. GENERAL

1.01 This section describes the recorded announcement equipment of the No. 3 Electronic Switching System (ESS), including the emergency overload announcement system.

1.02 When this section is reissued, this paragraph will contain the reason for reissue.

1.03 The following announcements are available in the No. 3 ESS:

- Vacant code or vacant number
- Dial tone first
- Access code not dialed
- Access code dialed in error
- Custom calling
- Local coin overtime
- Permanent signal
- Partial dial
- Emergency overload

1.04 The access-code-not-dialed announcement and the access-code-dialed-in-error announcement may be combined into one announcement, as well as the permanent signal and partial dial announcements. Recommended wording for each announcement can be found in Dial Facilities Management Practices Division H, Section 1b(13).

1.05 Recorded announcements may be provided to the No. 3 ESS either remotely or locally. Announcements are provided remotely when the recorded announcement equipment used is located outside of the No. 3 ESS office. The announcements are supplied by dedicated facilities to announcement trunks. Announcements are provided locally by use of 7A announcement sets located in the No. 3 ESS office itself.

2. EQUIPMENT

2.01 This part describes the equipment used to locally supply all recorded announcements in the No. 3 ESS, except the emergency overload announcement. The emergency overload announcement uses a mechanism different from other announcements and is described in Part 3.

2.02 Each recorded announcement in the No. 3 ESS is supplied by a separate 7A announcement set (Fig. 1). Each 7A announcement set contains recording, amplification, and control circuits (Fig. 2). The set contains a motor driven recording drum and recording head capable of recording and playing back a message of up to two minutes.

2.03 The 7A announcement set is used in applications other than in the No. 3 ESS; in some of these applications, a message length of 2 minutes may be necessary. However, in the No. 3 ESS, no announcement should approach 2 minutes. The longest announcement listed in Dial Facilities Management Practices Division H, Section 1b(13) can be completed within 20 seconds.

2.04 One 7A announcement set is required for each recorded announcement provided. Each 7A set can be connected to several announcement trunks (SD-3H411) allowing several lines to be connected to the announcement at one time.

2.05 The 7A announcement set is designed for ***light duty*** applications in which relatively few calls are routed to the announcement each day. The first call routed to the 7A announcement begins the rotation of the recording drum and the playback of the announcement. All subsequent calls routed to the same announcement receive audible ringing until the beginning of the announcement, at which time they are connected to the announcement.

2.06 All announcements in the No. 3 ESS except the emergency overload announcement are provided on a nonbarge-in basis. Customers are connected to an announcement only at the beginning of the announcement cycle.

2.07 The 7A announcement sets are mounted on the miscellaneous frame. Recording can be done only through a direct attachment through the recording jack located on the 7A announcement set (Fig. 2).

2.08 The ESS will permit a customer to be attached to an announcement for a maximum of 90 seconds. If the customer does not disconnect before the end of 90 seconds, the ESS removes the customer from the announcement.

3. EMERGENCY OVERLOAD ANNOUNCEMENT

3.01 A system is available to the No. 3 ESS by which overflow tone (120 ipm) can be replaced by a recorded announcement informing customers of a special condition. The system is intended for overload conditions due to special circumstances, such as work stoppage, weather conditions, or outside plant problems. The announcement can be remotely recorded and placed into service by the network administrator.

3.02 The schematic for the emergency overload announcement system is shown in Figure 3. In addition to a 7A announcement set, the system contains a remote recording circuit which provides the ability to connect a telephone to the 7A set through the switched message network.

4. METHOD FOR RECORDING EMERGENCY OVERLOAD ANNOUNCEMENTS

4.01 To record an emergency overload announcement, the network administrator dials a telephone number in the No. 3 ESS office assigned to the emergency overload announcement system. Upon completion of the call, the ESS returns high tone to the network administrator and the administrator disconnects. The ESS then automatically initiates a call to the preassigned number of the telephone over which the network administrator is to make the recording.

4.02 Upon answer of the call from the ESS, a connection is made through the ESS switching network between the network administrator's telephone and the remote recording circuit. If the system is presently supplying the announcement to customers, overflow tone is switched in its place.

4.03 The 7A set is placed into a playback cycle, and the administrator can determine if the existing announcement can be used. If the announcement can be used, the administrator disconnects within 30 seconds after the recording ends. A command can then be given on the Network Administration teletypewriter which will

switch the announcement into service in place of overflow tone.

4.04 If the network administrator wishes to make a new recording, he or she remains off-hook at the end of the recording playback. After a 30-second pause the remote recording circuit will place the 7A set in the recording cycle. The recording drum will be completely erased, during which time overflow tone is connected to the administrator.

4.05 When the drum is erased, the remote recording circuit places the 7A set in the recording mode and removes overflow tone from the connection to the network administrator. The network administrator may now make a recording.

4.06 The network administrator then records a message just under 2 minutes. The message itself should not exceed approximately 20 seconds, if possible. It should be repeated until 2 minutes of recording is attained. The 7A set will not return to the beginning of a cycle until the end of a 2-minute cycle. If the announcement is not repeated, a customer may get no overflow indication upon connection to the overflow lead in the junctor.

4.07 A customer may be attached to overflow or the emergency overload announcement equipment for a maximum of 30 seconds. At the end of 30 seconds, the customer is removed. This is regardless of whether tone or announcement is being received.

4.08 At the end of the recording cycle, the remote recording circuit goes on-hook and the path connecting the network administrator's telephone and the remote recording circuit is taken down.

4.09 To check the quality of the recording, the network administrator calls the system once again. High tone is returned, the administrator hangs up, and the ESS calls back. The administrator listens to the recording and, if the quality is satisfactory, hangs up at the end of the cycle, goes to the Network Administration teletypewriter, and activates the transfer from overflow tone to emergency overload announcement.

4.10 If the network administrator wishes to change the recording, he or she waits 30 seconds after the end of the playback cycle and begins again the process already outlined.

4.11 Procedures for recording and placing in service the emergency overload announcement are summarized in Figure 4.

5. SUPPLEMENTARY REFERENCES

Bell System Practices, Section 951-116-100, 7A Announcement System Machine Intercept, General Descriptive Information

Dial Facilities Management Practices, Division H, Section 1b(13), Switching Systems Management, General Administration, Tones and Announcements.

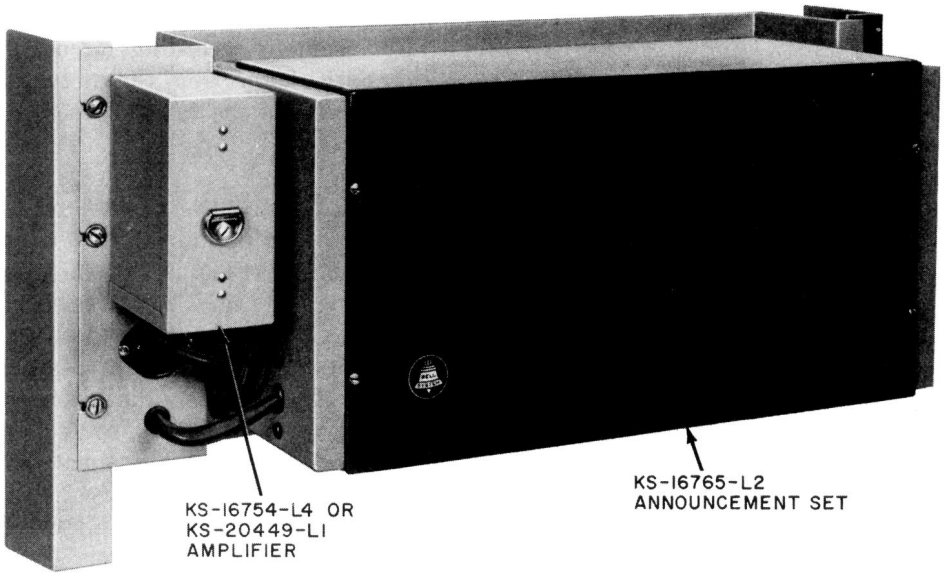

Fig. 1—7A Announcement Set

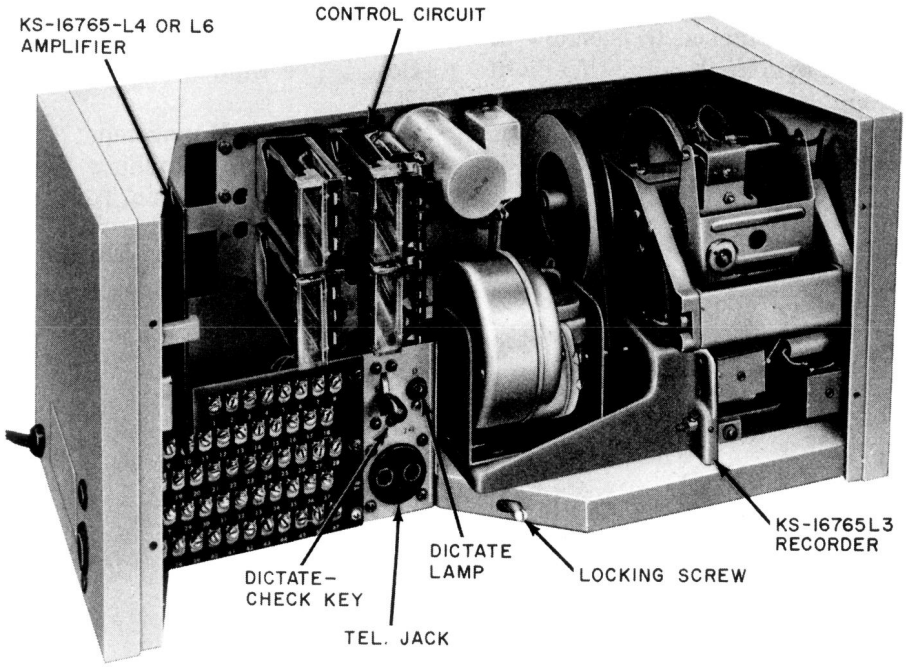

Fig. 2—7A Announcement Set—Uncovered

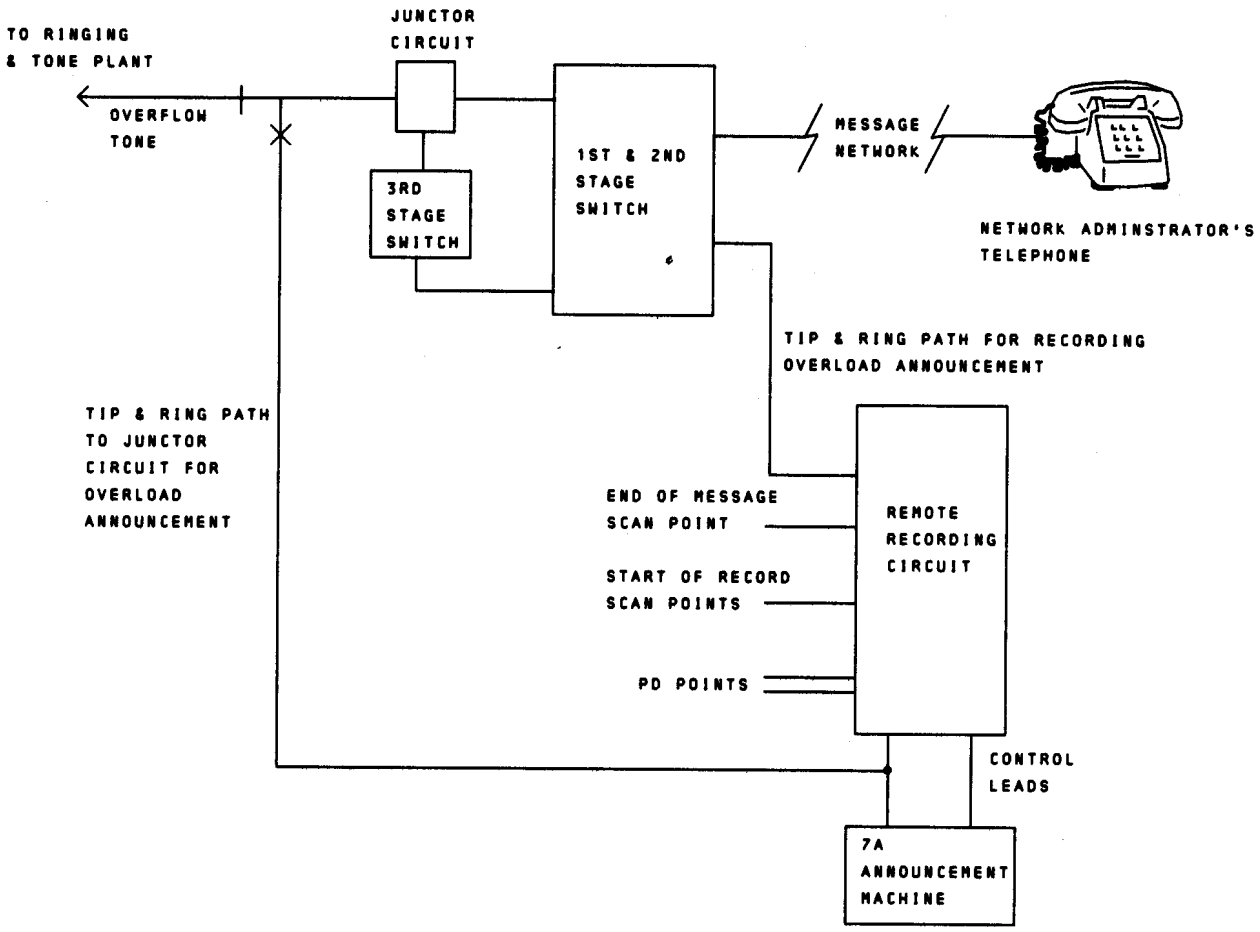

Fig. 3—No. 3 ESS Schematic of Network Connections to Emergency Overload Announcement

STEP	PROCEDURE
1	CALL EMERGENCY OVERLOAD ANNOUNCEMENT SYSTEM TN _____
2	HIGH TONE RETURNED/HANG-UP
3	SYSTEM CALLS BACK
4	ANSWER/RECORDING PLAYBACK BEGINS (2-MINUTE PLAYBACK)
5	END OF PLAYBACK CYCLE
6	IF RECORDING IS GOOD, HANG UP AND GO TO STEP 12
7	IF CHANGE MUST BE MADE, WAIT 30 SECONDS
8	OVERFLOW TONE RETURNED FOR 2 MINUTES
9	OVERFLOW TONE REMOVED/RECORD MESSAGE
10	REPEAT MESSAGE UNTIL 2-MINUTE CYCLE ENDS
11	ESS DISCONNECTS/REPEAT, BEGINNING AT STEP 1
12	ACTIVATE ANNOUNCEMENT FROM NETWORK ADMINISTRATION TELETYPEWRITER

Fig. 4—No. 3 ESS Emergency Overload Announcement Procedures