ADD OFFICE LINK EXTENSION FRAME

CONTENTS

1. GENERAL

1.1 This procedure outlines the work associated with the addition of office link extension frames, to the existing office link frames.

1.2 When the number of office link frames in a crossbar central office exceeds ten, it is necessary to eliminate split levels on the secondary switches of the office link frames and transfer all trunks in excess of 100 from the office link frame to the office link extension frame. This arrangement is required so that the outgoing trunks will be accessible through not less than 10 channels. Office link extension frames may, however, be added in anticipation of growth.

1.3 Due to specific job conditions and practices in effect at the time of the original installation, three types of jobs prevail, as follows:

1.31 Type 1 (Paragraph 2): Where floor space was assigned for future office link extension frames and the OGT cables were terminated at terminal strips which were temporarily mounted adjacent to the office link frame ←

1.32 Type 2 (Paragraph 3): Where floor space was assigned for future office link extension frames and sufficient slack or length was provided in the cables; however, in this instance, the cables were not connected to the OGT terminal strips but they were terminated directly to the secondary switches of the office link frame. ←

1.33 Type 3 (Paragraph 4): Where no provision was made for future office link extension frames, which necessitates the splicing of the present cables or in furnishing new cables when the office link extension frames are added. ←

2. (TYPE 1) EXTENSION FRAME TERMINAL STRIPS NOW INSTALLED

2.1 Preliminary Work

2.11 Install extension frame and cable it to all points as specified.

2.12 Fasten the OGT terminal strips on the extension frame as shown on the equipment drawings.

2.13 Connect all cables at all ends, except -

2.131 Cables between the Miscellaneous terminal strip on the extension frame and the Miscellaneous terminal strip on the office link frame, at the office link frame end.

2.132 Cables between the MC relay terminal strip on the extension frame and the MC relay terminal strip on the office link frame, at the office link frame end.

2.133 Supplementary local cables, used for multipling the verticals between the office link frame and the extension frame and the distributing battery to the secondary switches at the office link frame.

2.134 Local cable between the extension frame switches and the OGT terminal strips, at the OGT terminal strip (when working trunks are involved). ←

2.14 Test the new extension frame as far as practical.

2.2 Transition Work

2.201 Make busy a secondary switch on the office link frame by means of the SMB jack

2.202 Connect the local cable used for multipling the verticals of the office link frame to the extension frame, at the secondary switch that was made busy.

2.203 Return this secondary switch to service, and repeat the work of Paragraph 2.201 and 2.202 on all other secondary switches of the office link frames. ←

2.204 Remove from service the even frame of a pair of office link frames by means of the OMB jack.

2.205 Connect the Miscellaneous terminal strip and the MC relay terminal strip on the even office link frame.

2.206 Connect the extension frame local cable on the OGT terminal strip.

2.207 Return the even office link frame to service and remove the odd office link frame of the same pair from service.

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2.208 Repeat the work of Paragraphs 2.205, 2.206 and 2.207 on the odd frame on the same pair.

2.209 Remove the originating markers from service, one at a time, and change their route relay cross-connections so that the markers will test for the trunks being transferred in their new location on the office link extension frame. The marker TL cross-connections are involved.

2.210 Remove the even frame of the same pair of office link frames from service by means of the OMB jack.

2.211 Disconnect the cables between the OGT terminal strip on the office link extension frame and the even office link frame secondary switches at both ends.

2.212 Bridge the split levels on all secondary switches of the even office link frame.

2.213 Change the "split levels to "non-split", at the Miscellaneous terminal strip on the even office link frame. The punchings involved are 60-69 and 70-79 for NS and 80-89 and 90-99 for SP.

2.214 Return the even office link frame to service and remove from service the odd frame of the same pair.

2.215 Repeat the work of Paragraphs 2.211 to 2.214 on the odd frame of the same pair and return it to service.

2.216 Repeat the work of Paragraphs 2.201 to 2.215 on all pairs of office link frames to which extension frames are to be added.

3. (TYPE 2) SLACK LEFT IN CABLES BUT EXTENSION FRAME TERMINAL STRIPS WERE NOT INSTALLED

3.1 Preliminary Work

3.11 Install extension frame and cable it to all points as specified.

3.12 Connect all cables at all ends, except -

3.121 Cables between the Miscellaneous terminal strip on the extension frame and the Miscellaneous terminal strip on the office link frame, at the office link frame end.

3.122 Cables between the MC relay terminal strip on the extension frame and the MC relay terminal strip on the office link frame, at the office link frame end.

3.123 Supplementary local cables, used for multipling the verticals between the office link frame and the extension frame and the distributing battery to the secondary switches at the office link frame end.

3.13 Test the new extension frame as far as practical.

3.2 Transition Work

3.201 Make busy a secondary switch on the office link frame by means of the SMB jack.

3.202 Connect the local cable used for multipling the verticals of the office link frame to the extension frame, at the secondary switch that was made busy.

3.203 Return this secondary switch to service and repeat the work of Paragraphs 3.201 to 3.202 on all other secondary switches of the office link frames.

3.204 Remove from service the even frame of a pair of office link frames by means of the OMB jack.

3.205 Connect the Miscellaneous terminal strip and the MC relay terminal strip on the even office link frame of the pair.

3.206 Cut the cables from the even office link frame to the MDF, the ITC and the OGT test frame, as specified, and terminate both ends of each cable on the extension frame OGT terminal strip.

3.207 Return the even office link frame to service and remove the odd frame of the same pair from service.

3.208 Repeat the work of Paragraphs 3.205, 3.206 and 3.207 on the odd frame of the same pair.

3.209 Remove the originating markers from service, one at a time, and change their route relay cross-connections so that the markers will test for the trunks being transferred in their new location on the office link extension frame. The marker TL cross-connections are involved.

3.210 Remove from service the even frame of the same pair of office link frames by means of the OMB jack.

3.211 Disconnect both ends of the cables between the office link extension frame OGT terminal strip and the even office link frame secondary switches.

3.212 Bridge the split levels on all secondary switches of the even office link frame.

3.213 Change the "split levels" to "non-split", at the Miscellaneous terminal strip on the even office link frame. The punchings involved are 60-69 and 70-79 for NS and 80-89 and 90-99 for SP.

3.214 Return the even office link frame of the pair to service and remove the odd frame of the same pair from service.

3.215 Repeat the work of Paragraphs 3.211 to 3.214 on the odd frame of the same pair and return it to service.

3.216 Repeat the work of Paragraphs 3.201 to 3.215 on all pairs of office link frames to which extension frames are to be added.

4. (TYPE 3) SPLICE PRESENT CABLE OR PROVIDE NEW CABLE TO THE MDF THE ITC AND THE OGT TEST FRAME

4.1 Preliminary Work

4.11 Install the office link extension frame and cable it to all points as specified.

SEQUENCE	OPERATION
TRANSITION - TYPE #1 - O.G.T. - T.S. INSTALLED & CABLED - BEFORE ADDITION	
1	Connect Vertical Multiple at Office Link Frame
2	Connect Misc. - T.S., - M.C. Relay T.S., - And Battery Distributing Cable at Office Link Frame.
3	Connect Local Cable on O.G.T. - T.S. on Extension Frame.
4	Change Marker Cross Connections.
5	Disc. Cables at Office Link Frame and at Extension Frame O.G.T., T.S.
6	Bridge Split Levels on Secondary Switches
7	Transfer Wiring From SP Term. to NS Term. on Misc. T.S.
TRANSITION - TYPE #2 - SLACK LEFT IN CABLE BUT WITHOUT O.G.T. T.S. - BEFORE ADD.	
1	Connect Vertical Multiple at Office Link Frame
2	Connect Misc. - T.S., - M.C. Relay T.S., - and Battery Distributing Cable at Office Link Frame.
3	Cut Cable, Strip, Butt, Wax, Fan, Connect Both Ends of Cables From O.G.T. - TST. FR. - M.D.F. and I.T.T.C. at the O.G.T. - T.S.
4	Change Marker Cross Connections.
5	Disc. Cables at Office Link Frame and at Extension Frame O.G.T. - T.S.
6	Bridge Split Levels on Secondary Switches
7	Transfer Wiring From SP Term. to NS Term. on Misc. T.S.
TRANSITION - TYPE #3 - SPLICE OLD CABLE OR ADD NEW CABLE - AT TIME OF ADDITION	
1	Connect Vertical Multiple at Office Link Frame.
2	Connect Misc. - T.S., - MC Relay T.S. - and Battery Distributing Cable at Office Link Frame
3	T Solice and Connect Old Cable or Connect New Cable at the M.D.F. - the I.T.T.C. - and the O.G.T. - TST Frame
4	Change Marker Cross Connections.
5	Disc. Cables at Office Link Frame, and or the M.D.F. the I.T.T.C., the O.G.T. TST. Frame and Splice Cable as Required.
6	Bridge Split Levels on Secondary Switches
7	Transfer Wiring From SP Term. to NS Term. on Misc. T.S.

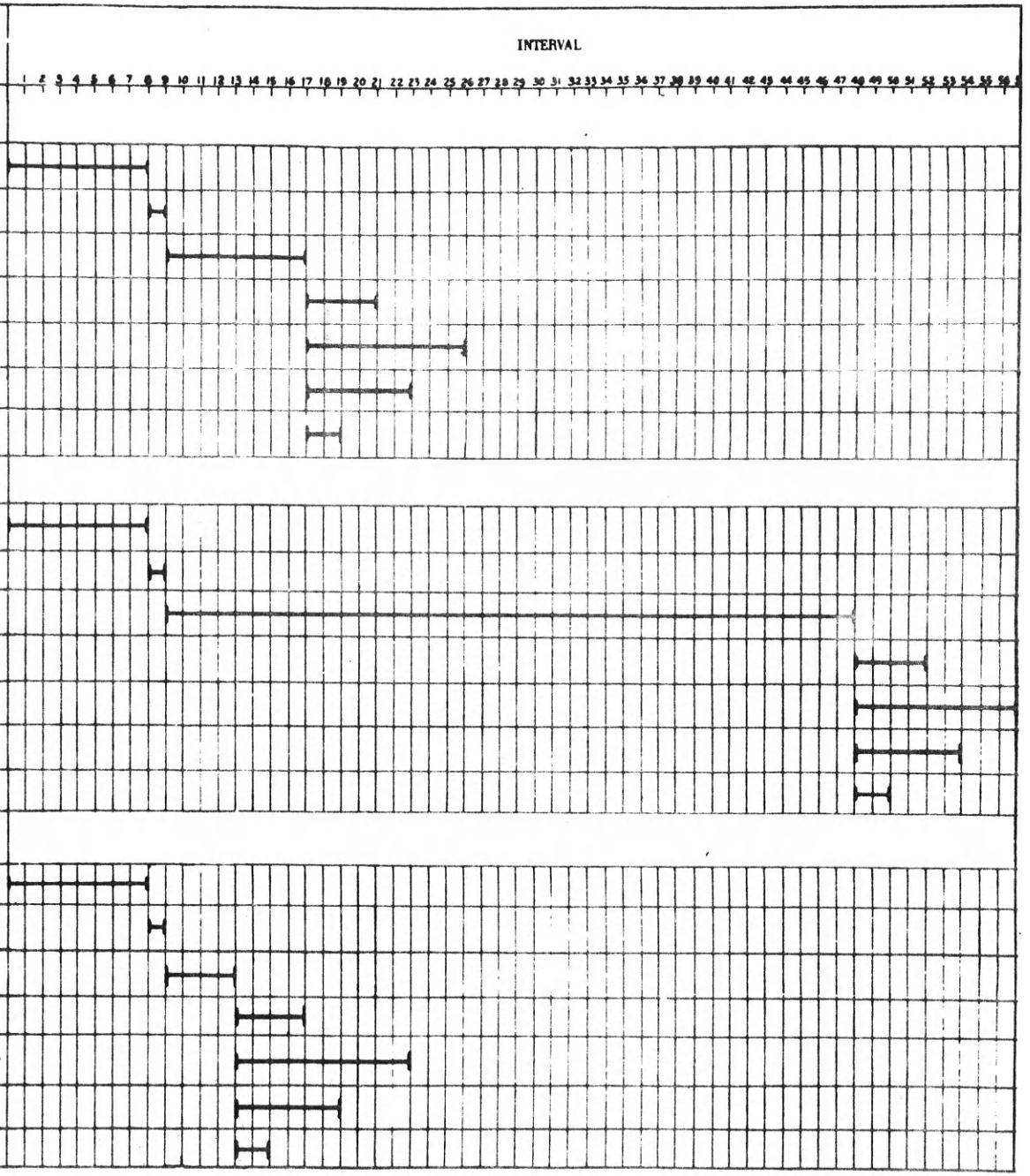

FIG. 1 SEQUENCE CHART - ADDITION OF OFFICE LINK EXTENSION FRAMES (Par. 6.1)

4.12 Fan or form all cable ends and connect at all points, except -

4.121 Cables between the Miscellaneous terminal strip on the extension frame and the Miscellaneous terminal strip on the office link frame, at the office link frame.

4.122 Cables used in multipling verticals, and the MC relay terminal strips, between the extension frame and the office link frame, at the office link frame.

4.123 Distributing battery cables between the secondary switches of the extension frame and the office link frame, at the office link frame end.

4.124 Cables from the MDF, the ITC, the OGT test frame, or from the splice to the extension frame, at the MDF, the ITC, the OGT test frame, or the splice.

4.2 Transition Work

4.201 Made busy a secondary switch on the office link frame by means of the SMB jack.

4.202 Connect the local cable, used for multipling the verticals of the office link frame to the extension frame, at the secondary switch that was made busy.

4.203 Return this secondary switch to service, and repeat the work of
→ Paragraphs 4.201 and 4.202 on all other secondary switches of the office link frame.

4.204 Remove from service, the even frame of a pair of office link frames, by means of the OMB jack.

4.205 Connect the Miscellaneous terminal strip and the MC relay terminal strip on the even office link frame.

4.206 Connect, or T or Y splice, as specified, the cables to the MDF, the ITC, and the OGT test frame.

4.207 Return the even office link frame to service and remove the odd frame of the same pair from service.

4.208 Repeat the work of Paragraphs 4.205, 4.206 and 4.207 on the odd frame of the pair.

4.209 Remove the originating markers from service, one at a time, and change their route relay cross-connections so that the markers will test for the trunks being transferred in their new location on the office link extension frame. The marker TL cross-connections are involved.

4.210 Remove the even frame of the same pair of office link frames from service by means of the OMB jack.

4.211 Disconnect both ends of the cable between the even office link frame and the MDF, the ITC, the OGT test frame, or the splice.

4.212 Bridge the split levels on all secondary switches of the even office link frame.

4.213 Change the "split levels" to "non-split" at the Miscellaneous terminal strip on the even office link frame. The punchings involved are 60-69 and 70-79 for NS and 80-89 and 90-99 for SP.

4.214 Return the even office link frame of the pair to service and remove the odd frame of the same pair, from service.

4.215 Repeat the work of Paragraphs 4.211 to 4.214 on the odd frame of the pair and return it to service.

4.216 Repeat the work of Paragraphs 4.201 to 4.215 on all pairs of office link frames to which extension frames are to be added.

5. CLEAN-UP WORK

5.1 Remove or cut back as far as practicable all unused cable and wire forms.

5.2 Remove the unused skinners at the office link frame secondary switches.

5.3 Remove all reference to "split levels" and change the designations at the MDF, the ITC and the OGT test frames.

From	To
TL11	TL10
TL3	TL11
TL5	TL12
TL7	TL13
TL9	TL14

6. INTERVAL HOUR CHART

6.1 The chart in Figure 1 shows the sequence of operations for each of the three types of jobs.

→ Arrowed lines indicate new or changed information

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Engineer of Installation

Reason for Reissue:
To remove reference to time changing information.

Replaces section 13 dated 9-16-48.