

TROUBLE RECORDER CONVERSION

CONTENTS

- |                           |                              |
|---------------------------|------------------------------|
| 1. GENERAL INFORMATION    | 5. TRANSITION, MARKER        |
| 2. PLANNING               | 6. TRANSITION, AMA EQUIPMENT |
| 3. PRELIMINARY OPERATIONS | 7. POSITION LINKS            |
| 4. PREPARATION            |                              |

1. GENERAL INFORMATION

1.1 This section covers the general procedures for the modification of an existing tandem office to provide for trouble recorder instead of trouble indicator operation.

1.2 Additional information relating to this procedure is contained in BSP AA240.031.

2. PLANNING

- 2.1 The procedure outlined below should be followed.
- 2.2 Install trouble recorder equipment.
- 2.3 Modify existing equipment for trouble recorder operation.
- 2.4 Transfer marker and associated equipment to trouble recorder operation.
- 2.5 Transfer AMA equipment to trouble recorder operation.
- 2.6 Convert CAMA position links to trouble recorder operation.

3. PRELIMINARY OPERATIONS

3.1 Install trouble recorder equipment, connecting all cable leads at trouble recorder and trouble recorder connector frames except cable leads to transverter connector frame. All trouble recorder features should be tested as far as possible without actual service operation.

3.2 Modify markers per change information.

3.3 Multiple all trouble indicator indicating leads with the trouble recorder equipment. This does not include the control leads such as start leads, display lost, trouble indicator busy, etc.

3.4 Modify transverters per change information.

3.5 Equip master timing frame per change information and terminate day, hour and minute leads at trouble recorder.

3.6 Equip AMA recorders per change information.

3.7 Multiple all transverter trouble indicator indicating leads with the trouble recorder equipment. This includes the billing indexer but not the transverter connector.

4. PREPARATION

4.1 Transfer the miscellaneous circuit functions from trouble indicator to trouble recorder as follows;

- (a) Marker connector sequence timing failure and grounded release alarm.
- (b) All markers busy timing and alarm
- (c) Marker trouble release plant registers.
- (d) Marker and foreign area translator frame time alarm pilot
- (e) Marker and foreign area translator make busy jacks. Does not include TIB jacks.
- (f) In use lamps
- (g) Sender Link alarm lamps.

4.2 Transfer the miscellaneous circuit functions from transverter trouble indicator to trouble recorder as follows:

- (a) Make busy, test, transfer jacks, does not include TIB jacks.
- (b) In use lamps
- (c) Transverter connector sequence timing failure and grounded release alarm.
- (d) All transverters busy alarm
- (e) Trouble release plant registers
- (f) Transverter frame time alarm pilot.
- (g) No AC voltage alarm for perforator cabinets
- (h) Line observing number matching standing ground alarm.
- (i) Billing indexer connector time alarm.

### 5. TRANSITION, MARKER

- 5.1 Make trouble indicator and trouble recorder busy to all markers. (TIB and TRB jacks).
- 5.2 Disconnect multiple to trouble indicator.
- 5.3 Make first marker busy, transfer control leads from trouble indicator to trouble recorder, test and restore marker to service.
- 5.4 Repeat Paragraph 5.3 on remainder of markers.
- 5.5 Release trouble recorder to markers.

### 6. TRANSITION, AMA EQUIPMENT

- 6.1 Place MB plugs in all AMA equipment TIB jacks at the transverter trouble indicator and the TRB jacks at the trouble recorder.
- 6.2 Making the even side busy, disconnect master timing frame control leads from transverter trouble indicator, connect leads to trouble recorder and wire master timing circuit per XM option. Block TIB relay operated during operation.
- 6.3 Repeat Paragraph 6.2 on odd side of master timing frame.
- 6.4 Block AMA recorder TTIB relay operated. Transfer control leads from trouble indicator to trouble recorder and complete YY wiring. Remove block from TTIB relay.

- 6.5 Make transverter busy. Transfer transverter control leads from trouble indicator to trouble recorder and connect transverter connector leads.

- 6.6 Release trouble recorder to AMA equipment.

### 7. POSITION LINKS

- 7.1 Since the modification of the position link frame shall be made with the frame removed from service, a temporary frame shall be installed to replace each position link frame as it is modified. Temporary multiple cables shall be connected to the sender and position appearances at the frame. The extra frame shall be treated as though it were an addition and considered as the next higher numbered frame in the position group preference chain in accordance with Notes 303 and 305 on SD-25964-01.

- 7.2 Install temporary position link frame and connect the sender multiple and associated ST- and STC- control leads from presently unwired verticals and controller unit terminal strip on the frame to be modified. Connect the position multiple from the terminal strip on the top of the frame.

- 7.3 After the new frame is functioning, the frame fuse shall be removed from the old frame, and it shall be modified in accordance with the change information, tested and restored to service.

R. W. HILLEGAS

Superintendent, Installation Engineering