

## TYPE N1, O AND ON CARRIER TELEPHONE SYSTEMS — OVER-ALL CHANNEL LINE-UP

### GENERAL INFORMATION

#### ANALYSIS OF N, ON OR O CARRIER TROUBLE REPORTS — FORM E-3889

##### 1. GENERAL

**1.01** This section describes Form E-3889 which is designed for use in providing information for the analysis of N, ON or O carrier trouble reports. The form is arranged for use as a work sheet in recording the cause of each case of trouble and for use in preparing periodical summaries by districts, divisions, areas or companies.

**1.02** In compiling the data and in the preparation of summaries separate copies of the Form E-3889 should be used for N, ON and O carriers and either the N, ON or O at the top be struck out as appropriate. Summaries should be prepared by each control office as provided for in local instructions.

**1.03** When Form E-3889 is used as a work sheet it is suggested that the testboard attendant enter the required information when the trouble is cleared, since any questions as to entries to be made on the form can be determined more readily at that time.

**1.04** A copy of Form E-3889 including typical entries when used as a work sheet is shown at the end of this section.

##### 2. DESCRIPTION OF ENTRIES

**2.01** Spaces are provided at the bottom of the report for company, area, division, district, office and period covered.

**2.02** The following paragraphs describe the use of Form E-3889 as a work sheet. When it is used as a summary, totals instead of strokes are entered in each column.

**2.03** *System:* Col. 1 Show the system number and the distant terminal. The office shown in the lower right-hand corner of the form will be the local terminal making the analysis.

**2.04** *Channel or Twin-Channel Trouble:* Col. 2

Make one stroke for each trouble which affected only a single channel or a twin-channel unit of the system. If only one channel is reported in trouble but the trouble found must have affected other channels, no stroke would be made in this column. If several channels are reported in trouble at the same time due to the same cause, no stroke would be made in this column.

**2.05** *System Trouble:* Col. 3 Make one stroke

for each trouble which affected several or all channels. If only one channel is reported in trouble but the trouble found must have affected other channels, make one stroke in this column. Also if several channels are reported in trouble at the same time due to the same cause, one stroke should be made in this column. If several channels are reported at the same time for the same type of trouble but they are found to test O.K. it should be presumed that a system trouble existed and a stroke made in this column.

**2.06** *Test O.K.:* Col. 4 Enter one stroke here when the trouble reported indicates that there was trouble in the N, ON or O carrier system but the tester finds no evidence of trouble when the circuit is tested.

**2.07** *Came Clear — Channel or Twin-Channel Trouble:* Col. 5 Enter one stroke here

when a trouble affecting only one channel or, in type O carrier, only the two channels associated with the twin-channel, is verified but disappears before a positive location can be made.

**2.08** *Came Clear — System Trouble:* Col. 6

Enter one stroke here when a trouble affecting more than one channel or twin-channel is verified by test or alarm but disappears before a positive location can be made.

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**2.09 Channel Unit Subassemblies — Expander-Signaling:** Col. 7 Enter one stroke when a trouble is located in the expander-signaling subassembly of a channel unit.

**2.10 Channel Unit Subassemblies — Compressor:** Col. 8 Enter one stroke when a trouble is located in the compressor subassembly of a channel unit.

**2.11 Channel Unit Subassemblies — Carrier Frequency:** Col. 9 Enter one stroke when a trouble is located in the carrier frequency subassembly of a channel unit.

**2.12 Channel Unit Subassemblies — Not Sectionalized:** Col. 10 Enter one stroke here when a channel unit is replaced without determining which subassembly was in trouble and it is not convenient to relay the report of the trouble cleared.

**2.13 Group Unit:** Col. 11 Enter one stroke when a trouble is located in either the receiver or transmitter of the group unit at an N or O carrier terminal.

**2.14 Twin-Channel Unit:** Col. 12 Enter one stroke when a trouble is located in an O carrier twin-channel unit.

**2.15 Repeater:** Col. 13 Enter one stroke when a trouble is located in an N or O carrier repeater or any of the wiring associated with it up to the protectors.

**2.16 Cable or Open Wire:** Col. 14 Enter one stroke for each pair trouble causing an N, ON or O carrier system trouble.

**2.17 Plant Forces:** Col. 15 Enter one stroke for each trouble, system or channel as the case may be, caused by Plant Department employees regardless of the type of work being performed.

**2.18 Fuse or Protector:** Col. 16 Enter one stroke for each trouble which results from a fuse or protector operation unless the cause can be assigned under one of the Columns 7 through 15.

**2.19 Total Troubles Col. 4 to 16, Incl.:** Col. 17 Enter the summation of strokes in Columns 4 to 16, inclusive. This total should also equal the sum of the strokes in Columns 2 and 3.

**2.20 Tube Failures Col. 7 to 13, Incl.:** Col. 18 Enter one stroke for each tube replaced because of a trouble condition in addition to any stroke made in Columns 7 to 13. Do not enter a stroke for tubes replaced on routine tests.

**2.21 Trouble Located Outside N, ON or O System:** Col. 19 Use of this column is optional as the troubles to be included here are not N, ON or O carrier troubles but are on equipment or facilities other than the carrier facilities.

**2.22 Channels in Service — Total:** Col. 20 The total number of channels of the system which are in service should be entered here to assist in the analysis.

**2.23 Channel in Service — Built-in Signaling Disabled:** Col. 21 The number of channels in service which are not using the signaling system built into the N system are shown here to assist in the analysis.

**2.24 Unusual or unexplained cases of trouble** that might warrant special measures or investigation should be detailed on the back of each summary form or attached to it. An example of such a case might be a trouble which causes a fire in the equipment, or any unusual amount of vacuum tube or parts replacement.

**Attached:**  
**Form E-3889.**

