

CONTROLLED MAINTENANCE PLAN

► FOR ◀

► TRANSMISSION AND SIGNALING EQUIPMENT ◀

► SERVING ALL TRUNKS AND SPECIAL SERVICES ◀

1. GENERAL

1.001 This addendum supplements Section 010-300-010.

1.002 It is reissued to:

- Change the title to agree with the main section.
- Correct references made to force groups in conformance with the Company's reorganizational alignments.
- Cancel the use of Form E 5846 (AT&TCO) in Pacific and Nevada Bell.

1.003 This addendum applies to the following force groups in Pacific and Nevada Bell, as appropriate:

- Network Services*
- Network Operations*
- Special Services
- Radio relay stations maintained by other than Network Service Forces

*Excludes Local and Toll Switching Forces

1.004 Changes reflected in previous addenda issues of this section are retained.

- (a) Specify that the Central Office Log, Form E 5457, need not be used at radio stations where the appropriate Radio Station Log is used.
- (b) Announce the cancellation of Equipment Trouble Ticket, Form E 5840 (AT&TCO),

in Pacific and Nevada Bell. It is replaced by Form E 5840-PAC.

(c) Announce a revised version of the Test and Inspection Work Order and Record, Form E 5452-PAC.

(d) Add equipment trouble codes to Fig. 5 for:

- Radio — Alarm and Control
- Radio — Protection Switching
- Power

(e) Announce a revised version of Equipment Trouble Summary, Form E 5463 (AT&TCO), which will be designated as Form E 5463-PAC.

(f) Provide Form P 2994, Service Report or Trouble Ticket Accountability Tally Sheet.

(g) Add Part 22, which describes the optional use of Form E 5453 and E 5455, Test and Inspection Summary(s).

(h) Add equipment trouble codes.

(i) Clarify the wording of 19.03.

(j) Replace portions of Part 5.

(k) Announce the provision of Form P 3097, Central Office T-Carrier Trouble Ticket, for use with all T carrier troubles. Trouble Ticket E 5840-PAC continues to be applicable for all other central office equipment types (Part 5).

(l) Announce the provisions of Form P 3098, T-Carrier Trouble Log, used in conjunction with Form P 3097, Central Office T-Carrier Trouble Ticket (Part 6).

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

- (m) Provide a separate T-Carrier trouble code list (Fig. 5A).
- (n) Revise Fig. 3, flowchart for the controlled maintenance procedures and forms.
- (o) Announce the provision of Form P 3804, Carrier Terminal Trouble Record, for use (optional) with all categories of carrier terminals (Part 23).

→ 1.005 The use of the word "should" throughout
→ the main section means *shall* or *will*.

3. CONTROLLED MAINTENANCE CONCEPT

The following changes apply to Part 3 of the section:

- 3.01.1 — added
- Fig. 3A — added

3.01.1 Fig. 3A is a revised version of the flowchart, Controlled Maintenance Procedures and Forms.

5. FORM E 5840-PAC, EQUIPMENT TROUBLE TICKET AND FORM P 3097, CENTRAL OFFICE T-CARRIER EQUIPMENT TROUBLE TICKET

The following changes apply to Part 5 of the section:

- Part Heading — revised to specify new form numbers
- 5.01 and 5.03 — revised
- 5.03.1 — added
- 5.03.2 — revised
- 5.03.3 — added
- 5.05 and 5.06.1 — revised
- 5.06.2 and 5.06.3 — added
- 5.07 — revised
- Fig. 4 and 5 — revised

- Fig. 4A and 5A — added
- Exhibit 1 — added

General

5.01 Part 5 describes Form E 5840-PAC, Equipment Trouble Ticket and Form P 3097, Central Office T-Carrier Trouble Ticket. Included are instructions for making appropriate entries. All → references to Form E 5840 (AT&TCo) in the main → section now apply to Form E 5840-PAC.

Description

5.03 Both Equipment Trouble Tickets, Forms E 5840-PAC and P 3097, measure 3-1/2 inches by 6 inches. Fig. 4 is an illustration of Form E 5840-PAC and Fig. 4A is an illustration of Form P 3097.

5.03.1 A series of Forms E 5840-PAC are provided as follows:

- (a) Form E 5840-1 PAC (white)
- (b) Form E 5840-2 PAC (canary)
- (c) Form E 5840-3 PAC (green)
- (d) Form E 5840-4 PAC (pink)

5.03.2 Forms E 5840-() PAC are a revision of Form E 5840 (AT&TCo) which was canceled. The revision includes:

- (a) Additional required items
- (b) Preprinted serial numbers from 0001 through 9999
- (c) The provision of four colors which may be used for different equipment types or force groups; the choice of colors used for specific purposes is a local option

5.03.3 Form P 3097 is printed on white paper only. Preprinted serial numbers on Form P 3097 are not available.

Use

→ 5.05 The responsible Equipment Maintenance group will initiate an Equipment Trouble

Ticket, Form E 5840-PAC or Form P 3097, when *corrective* equipment adjustments are made as a result of tests applied to trunks or circuits by test frames or manual methods. *Preventive* equipment adjustments will be recorded on the Test and Inspection Work Order and Record, Form E 5452-PAC. These records, when properly analyzed, will reveal when unstable equipment functions need correcting.

5.06.1 Service Report or Trouble Ticket Accountability Tally Sheet, Form P 2994 (Exhibit 1), will be used to account for completed or voided serial numbered trouble tickets, reports, etc.

5.06.2 On Form P 2994, in the space provided, enter the Serial Numbers from Forms E 5840-PAC or P 3097.

5.06.3 Form P 2994 lists one thousand 4-digit serial numbers. The "thousandth" digit of the serial number of the group of tickets being tallied shall be entered in front of the first and last serial numbers on Form P 2994 when it is initiated. All the other serial numbers shall be interpolated as 4-digit numbers lying in sequence between the first and last serial numbers. The first and last serial numbers will be one of the following:

First	Last
<u>0001</u>	<u>1000</u>
<u>1001</u>	<u>2000</u>
<u>2001</u>	<u>3000</u>
<u>3001</u>	<u>4000</u>
<u>4001</u>	<u>5000</u>
<u>5001</u>	<u>6000</u>
<u>6001</u>	<u>7000</u>
<u>7001</u>	<u>8000</u>
<u>8001</u>	<u>9000</u>
<u>9001</u>	<u>-000</u>

5.06.4 Account for each trouble ticket serial number by checking off, lining out, or circling the appropriate serial number on Form P 2994.

5.07 Equipment Trouble Tickets are not initiated for troubles found as a result of scheduled equipment *preventive* maintenance activities, inspections or samples. Procedures for recording these troubles are covered in Part 14.

6. FORM E 5457, CENTRAL OFFICE LOG AND FORM P 3098, T-CARRIER TROUBLE LOG

The following changes apply to Part 6 of the section:

- Part Heading — revised to add form number (P 3098) for T-Carrier Trouble Log
- 6.01 and 6.02 — revised
- 6.03.1 and 6.04.1 — added
- 6.05, 6.06, and 6.08 — revised
- Fig. 6A — added

General

6.01 Part 6 describes Form E 5457, Central Office Log, used in conjunction with Equipment Trouble Ticket (Form E 5840-() PAC and Form P 3098, T-Carrier Trouble Log, used in conjunction with the Central Office T-Carrier Trouble Ticket (Form P 3097).

Note: At radio stations, the appropriate Radio Station Log will be used. In these cases, the Central Office Log, Form E 5457, is not required.

6.02 The appropriate log (ie, Central Office Log or T-Carrier Trouble Log) is used for recording details of equipment troubles, trouble reports, office activities, etc, which could result in trouble reports.

6.03.1 Form P 3098, printed on white paper, measures approximately 8-1/2 inches by 14 inches.

6.04.1 Fig. 6A illustrates Form P 3098, T-Carrier Trouble Log. Entry requirements are also shown.

6.05 The log(s) may be closed out daily or periodically, depending on the volume of trouble reports and other entries.

6.06 The log(s) may also be used for noting central office activities, such as installation, contractor or preventive maintenance activities. These kinds of entries are useful for investigating troubles which may be related to such activities.

6.07 Local reports or office alarms may initiate equipment trouble investigations in smaller offices. These reports should be entered by the attendant in either the Central Office Log or the T-Carrier Trouble Log, whichever is appropriate. If a trouble condition is observed, the attendant will clear the trouble and advise the centralized location of the essential details so that a trouble ticket may be prepared. The attendant should complete the log entry with the serial number of the trouble ticket.

7. FORMS E 5841A, B, C, D – EQUIPMENT CONTROL RECORD

The following change applies to Part 7 of the section:

- 7.05 – revised

Description

→ 7.05 Forms E 5840-()-PAC and P 3097 Trouble Tickets are the source data for the Equipment Control Record. Troubles are posted to the Equipment Control Record by day of the month on accumulative basis. Comparison of actual troubles to a predetermined trouble expectancy is made on a partial month and a total month basis. Significant variations in actual troubles to expected troubles require investigation or further analysis. Trouble expectancies are described in detail in 8.06, 8.07, and 8.08.

8. FORM E 5842, EQUIPMENT PERFORMANCE SUMMARY

The following changes apply to Part 8 of the section:

- 8.01.1 – revised
- 8.03.1 – removed
- 8.05 and 8.06 -- revised
- Fig. 6B and 12A – added

→ 8.01.1 The use of Form E 5842 is optional.

Use

8.05 The initial step is to inventory each category of equipment, using the Equipment Grouping List, Fig. 12 and 12A. This list refers to work unit forms and line numbers for each category of equipment. Where these work unit records are not available, a physical count will be necessary. The total number of equipment items for each category should be posted on the E 5842, Equipment Performance Summary. The equipment item count should be reviewed each quarter for accuracy.

8.06 The figures to be posted in the Trouble Expectancy per 100 Units column are developed from office records. The best source of information is the coded Equipment Trouble Tickets from the previous year. If these tickets were coded under another plan, it will be necessary to convert the trouble codes used to the codes shown in Fig. 5, 5A or 12 and 12A.

9. FORM E 5463; TROUBLE SUMMARY

The following changes apply to Part 9 of the section:

- 9.01 – revised
- 9.02.1 and 9.03.1 – added
- 9.06 – revised
- Fig. 13A – added

General

9.01 Part 9 describes Form E 5463, Trouble Summary. Included are examples of its use and instructions for recording information and for interpreting data. Figure 13 is an illustration of the form. A revised version of this form, designated as Form E 5463-PAC, Equipment Trouble Summary, → is provided (see Fig. 13A). All references to Form E 5463 in the main section shall mean Form → E 5463-PAC. Form E 5463 will still be used in → other Bell System Practices (BSPs) on Controlled Maintenance Plans for switching systems.

9.02.1 Form E 5463-PAC is used to compare the actual troubles reported each month with the total number of related equipment types installed. Comparisons can also be made with prior monthly reports, previous year's monthly averages and the established trouble expectancies.

9.03.1 The Equipment column of Form E 5463-PAC is divided into two parts headed Code and Count.

9.06 Equipment items are listed on Form E 5463 in the Equipment column by trouble code. On Form E 5463-PAC, equipment items are listed in the Equipment Code column by trouble code. The number of associated units installed is listed in the Equipment Count column. If the number of equipment units installed for a particular code materially changes during the year, enter the equipment code and the new unit count on Form E 5463-PAC as shown in Fig. 13A. Two columns, Avg Prev Year and Cur Obj, are provided for comparing current trouble trends with past trouble results and with an objective figure. As the number of troubles are entered each month for each equipment item, comparisons are made. If the number of troubles for a particular equipment item should rise unexpectedly or if a gradual rising trend is noticed, investigation is required to determine the cause.

13. CONTROL OF EQUIPMENT PERFORMANCE IN SMALL OFFICES OR SMALL INSTALLATIONS

The following change applies to Part 13 of the section:

- 13.04 — revised

13.04 *Recording Trouble Reports:* As stated in Part 5, Equipment Trouble Tickets must be made for each reported case of equipment trouble. It is expected that trouble tickets for troubles occurring in unattended offices will be made at a central location. This will usually be the testboard or maintenance center controlling the facilities in the unattended office.

14. FORM E 5452, TEST AND INSPECTION WORK ORDER AND RECORD

The following changes apply to Part 14 of the section:

- 14.01 — revised
- 14.04.1 and 14.04.2 — added
- 14.05 — revised
- Fig. 18A — added

General

14.01 Part 14 describes Form E 5452, Test and Inspection Work Order and Record. An illustration of the form is shown in Fig. 18. A revised version of this form, designated as Form E 5452-PAC, is provided (see Fig. 18A). All references to Form E 5452 in Section 010-300-010 shall mean Form E 5452-PAC. Form E 5452 will still be used in other Controlled Maintenance Plans (eg, switching systems).

14.04.1 Use Form E 5452-PAC for the master bring-up file. The entries on Form E 5452-PAC are obtained from the E 5845 Plant Work Schedule and from the Equipment Test Lists (ETLs). Master Forms E 5452-PAC will be permanently retained in a file binder or drawer file with index tabs as shown in Fig. 29 of the main section. Under this system of filing, work items are brought forward at the beginning of each period. Each month is divided into four parts, known as first, second, third and fourth periods, to correspond to the Plant Work Schedule, Form E 5845, covered in Part 18 of the main section. Master Forms E 5452-PAC for the current period are then placed behind the proper Trick index tab. At the beginning of each period, the master Forms E 5452-PAC for job assignments listed on the E 5845 Plant Work Schedule, should be removed from the file and reproduced or transcribed to a blank Form E 5452-PAC. Return the master Forms E 5452-PAC to the file under the In-Progress index tab. The reproduced or transcribed copy of Form E 5452-PAC will be handled as follows:

- (1) Use it as described in 14.05 through 14.07 of the main section.
- (2) During the progress of the work assignment, record all equipment troubles and adjustments that were made to return the equipment to BSP limits. If the work assignment extends over a period of several days, daily entries shall be made on the Progress Report portion of the

form. All time spent in performing the work assignment should be accurately recorded.

(3) When the work assignment is completed, the master Form E 5452-PAC is removed from the In-Progress file and placed behind the Completed index tab. The completed (reproduced or transcribed) Form E 5452-PAC is returned to supervisor.

(4) At the end of the period, the supervisor will review the Plant Work Schedule for uncompleted work items. These uncompleted items require further attention and rescheduling. All completed master Forms E 5452-PAC in the Completed file are placed in the file behind the index tab for the month they are next due.

14.04.2 Figure 18A illustrates the front of Form E 5452-PAC. The back of the form is a continuation of the bottom of the front side.

14.05 Form E 5452-PAC is issued for job assignments listed under Work Items of the Plant Work Schedule. When practicable, these work items may be grouped on Form E 5452-PAC to reduce the number of Test and Inspection Work Orders issued. The craftsperson will record the progress of the work assignments, troubles experienced, and time spent.

→ 19. SCHEDULED WORK ASSIGNMENT

The following changes apply to Part 19 of the section:

- 19 — part heading revised
- 19.03 — revised

→ 19.03 Form E 5846 (AT&TCo) is canceled for use in Pacific and Nevada Bell. A master

→ bring-up file of Forms E 5452-PAC will be used instead.

Part 22 — added

22. FORMS E 5453 AND E 5455, TEST AND INSPECTION SUMMARY

22.01 Form E 5453 or E 5455 may be used to summarize the completed (reproduced or transcribed) Forms E 5452-PAC. This is optional.

22.02 When summary Forms E 5453 or E 5455 are used, they will be retained for one year. The summarized Forms E 5452-PAC will be retained as long as it is necessary.

22.03 When summary Forms E 5453 or E 5455 are *not* used, the completed (reproduced or transcribed) Forms E 5452-PAC will be retained for one year.

22.04 Forms E 5453 and E 5455 are shown in Fig. 25 and 26 of the main section.

Part 23 — added

23. FORM P 3804PT, CARRIER TERMINAL TROUBLE RECORD

23.01 The local use of the Carrier Terminal Trouble Record, Form P 3804PT, Figure 6B, is optional.

23.02 The application of Form P 3804PT provides a method of maintaining a permanent record of individual carrier terminal troubles. This method may be used for all narrow and broadband carrier terminal types.

23.03 Form P 3804PT is 8-1/2 inches X 5 inches in size. It is available in pads of 50 sheets with a minimum order of 100 sheets.

CONTROLLED MAINTENANCE PROCEDURES AND FORMS

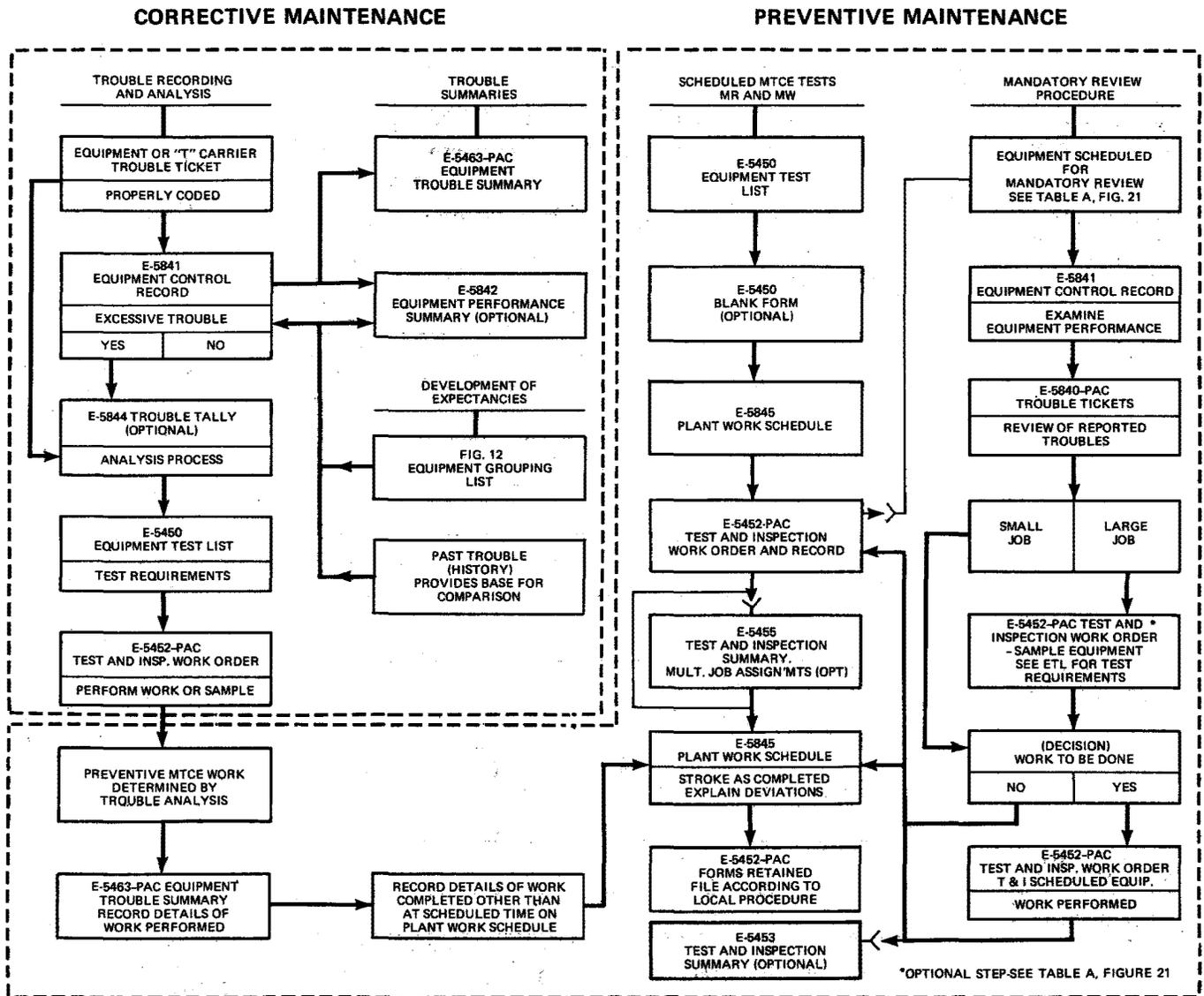


Fig. 3A

EQUIPMENT TROUBLE TICKET

BSP 010-300-010 E 5840 PAC (2-72)

SERIAL NUMBER		REF. SERIAL		OUT OF SVC		MEMO	
REPORTED		DATE		TIME		REC. BY	
FROM		BY					
CIRCUIT, CHANNEL, GROUP OR SYSTEM				CTL		OFFICE OR STATION	
EQUIPMENT OR UNIT TYPE AND NUMBER						BAY	CORD
						POS	
TROUBLE REPORTED							
TURNED DOWN OR RELEASED							
TO		BY		TIME		DATE	
TURNED UP							
TO		BY		TIME		DATE	
MADE GOOD							
BY		TIME		ON			
REFERRED							
TO		BY		TIME		DATE	
RESTORE REGULAR							
BY		NTFD		AT		TIME	
TROUBLE FOUND							
PERFORMANCE ANALYSIS				REVIEWED		POSTED ON E-5841	
				BY		BY	
TROUBLE CODE		EQUIP REPAIR TIME		TBL CLEARED			
		HRS. MIN.		BY			

PREPRINTED SERIAL #

ENTER SERIAL NO. OF TICKET IN REPORTING GROUP

CHECK IF EQPT IN TROUBLE IS CAUSING SERVICE OUTAGE

CHECK IF EQPT IS TURNED DOWN FOR ROUTINE TESTS OR WHERE TICKET IS FOR RECORD PURPOSES ONLY

ENTER DATE, TIME AND INITIALS OF PERSON TAKING REPORT

IF EQPT IN TROUBLE IS LOCATED IN ANOTHER OFFICE OR STATION ENTER OFFICE OR STATION NAME

IDENTIFY GROUP AND PERSON MAKING REPORT

IDENTIFY EQPT IN TROUBLE BY UNIT, TYPE, NUMBER AND BAY

IDENTIFY CONTROL OFFICE

IDENTIFY SWITCHBOARD EQUIPMENT IN TROUBLE BY CORD AND POSITION

IF EQPT IS TURNED DOWN FOR ROUTINE OR TESTS, ENTER NOTIFICATION DATA

IF SERVICE IS MADE GOOD, ENTER DETAILS HERE

IF TROUBLE IS REFERRED TO ANOTHER OFFICE OR MAINTENANCE GROUP, ENTER DETAILS HERE

DO NOT START LOG HERE. AFTER TROUBLE IS FOUND - ENTER CAUSE OF IN THIS SPACE

ENTER INITIALS OF PERSON POSTING THIS TICKET DATA ON FORM E 5841 EQPT CONTROL RECORD

ENTER APPLICABLE TROUBLE CODE FROM FIG. 5 TROUBLE CODE LIST

ENTER TIME ACTUALLY REQUIRED TO REPAIR EQPT

ENTER INITIALS OF SUPERVISOR

ENTER INITIALS OF PERSON CLEARING EQUIPMENT TROUBLE

E 5840-PAC Equipment Trouble Ticket

Fig. 4

Initiating Ticket

Enter serial no. of ticket

If T Restoration Control Center has case, enter case no.

If Cable Maintenance issues number for dispatching purposes, show no.

Show name of person making report & office. Also show ticket & telephone no.'s of reporting office.

Enter Date, Time & Initials of Person receiving report.

Enter system/chan identification & equipment location.

Maintenance Data

Enter Release & Turn Up details here for Routine Mtce activities.

Restoration Data

If system is routed on Restoration Line - T (RLT) or other facilities, enter details here.

When system is returned to regular facilities, enter details here.

Analysis Data

Describe details of trouble found. Enter pertinent data, show service outage in hours & minutes.

Trouble Report Data

Enter details of trouble reported.

If trouble is referred to another office or mtce group, enter details here.

If trouble locates in a repeater, enter data as appropriate.

If trouble locates in manhole, sidewalk box, or at a pole, enter location identity here.

Cable Maintenance Data

If cable maintenance forces are notified, record information here.

Pacific Telephone Nevada Bell		CENTRAL OFFICE		P3097 (11-74) (010-300-010)		
T-CARRIER TROUBLE TICKET						
Ticket No		TRCC Case No		Cable Line No		
Reported By		Office	Ticket No	Phone	Rec By	
System No		Control		Non-Control	Channel	
Location		BK/DG	Date	Time		
RR		Trouble Reported				
Released By		Date	Time	Circuit No/Trk No		
Turned up to		Office	By	Date	Time	
Referred To		By	Date	Time	Tkt No	
Ofc Rep't Loc		Shelf	Slot	Span	Case	
Patched on		Time			Slot	Side
RLT		Time			Cable	Pair
Patched on		Time				
MH	SB	TP	Location			
Cable Requested		Time	By	Fault Locating Office		
Date		By	Office	Date	Time	
Made Reg. Office		By				
Trouble Found						
Tbl Code	Tbl Cleared	Date	Time	Service Outage		
By	By	By	By	By		

Enter Progress Notes on back of ticket.

P 3097 Central Office T-Carrier Trouble Ticket
Fig. 4A

EQUIPMENT TROUBLE CODE LIST

VF EQUIPMENT

V, E, 22, & 44 Type Repeaters	1VR
All Other Voice Frequency Equipment Troubles Including Blown Fuses	1M
Echo Suppressors and Companders	1ES

SF SIG

Tube Type Single Frequency Units	2SF
Transistor Type Single Frequency Units	2SFT

OTHER SIG.

Composite, SX, DX Signaling Units and PLR	3CX
All Other Signaling Units	30S

L CARRIER

H.F. Line Amplifier L1 Carrier	4LA
H.F. Line Regulator L1 Carrier	4LR
H.F. Flat Gain and Plug-in Line Amplifiers L3 & L4 Carrier	4FG
H.F. Line Regulator L3 & L4 Carrier	4L3R
L CXR GP, SG Submaster & Master GP Equipment	4L3G
Channel Bank J, K, & L Carrier	4CH

N, O AND ON CARRIER

O, N, & ON Tube Type Repeaters	50NR
N Transistor Type Repeaters	5N3R
N1 Group Equipment	5N1G
N1 Channel Equipment	5N1C
N2 Group Equipment	5N2G
N2 Channel Equipment	5N2C
N3 Group Equipment	5N3G
N3 Channel Equipment	5N3C
O & ON Group Equipment (group and junction)	5ONG
O & ON Channel Equipment	5ONC

RADIO

Microwave Transmitter, (Long Haul)	6DT2
Microwave Transmitter, (Short Haul)	6MT
Microwave Receiver, (Long Haul)	6DR2
Microwave Receiver, (Short Haul)	6MR
Microwave Repeater	6RP2

T CARRIER

(See Separate Trouble Code List - Fig 5A)

OTHER CARRIER

Commercial Type Repeater	8CR
Commercial Type Terminal (per channel)	8CT
Other Bell System Repeater	8BR
Other Bell System Terminal (per channel)	8BT
Misc. Carrier Troubles including Blown Fuses & Frame Troubles	8M

K CARRIER

Line and Twist Amplifiers	8KA
Group Equipment	8KG

FM EQUIPMENT

FM Receiver	9FMR
FM Transmitter	9FMT

TELEGRAPH EQUIPMENT

Regenerative Telegraph Repeaters	10RG
Other Telegraph Repeaters	10R
Telegraph Carrier Channel	10C
Misc. Telegraph Equipment Troubles	10M

OTHER RADIO

All Other Land Based Receivers	11R
Other Transmitters	11T
All Other Radio Equipment Troubles	11M

VIDEO AND PROGRAM

Program Amplifiers	12PA
Program Switching Equipment	12PS
Video Amplifiers	12VA
Video Switching Equipment	12VS

DISTRIBUTING FRAME

Frame, Cross-Connect	13M
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RADIO ALARM AND CONTROL EQUIPMENT

C1 Alarm & Control	14C
E2 Status Reporting & Control	14E2
Other	14XX

RADIO PROTECTION SWITCHING EQUIPMENT

100A Type	15A1
200A Type	15A2
TDAS Type	15TD
THAS Type	15TH

POWER - BELL SYSTEM SUPPLY

Batteries	16BB
Fuses	16BF
Converters	16BC
Inverters	16BI
Rectifiers	16BR

POWER - COMMERCIAL SUPPLY

Failure	17CF
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MISCELLANEOUS

No Trouble Found	NTF
------------------------	-----

Fig. 5

T-CARRIER TROUBLE CODE LIST

MANHOLE REPEATER AR

MECHANICAL

Loose Screws, Inside Unit BI
Loose Screws, Outside Unit BO

BUILD OUTS

Wrong Line Build Outs CW
Defective Line Build Outs CD

CABLE TROUBLES

Open Conductor DO
Grounded Conductor DG
Shorted Conductors DS
Crossed Conductors DX

CABLE (TELCØ EMPLOYEE)

Section Throw ET
Section Damage ED

CABLE (OUTSIDE INFLUENCE)

Contractor FC
Storm FS
Other FO

OFFICE REPEATER JR

POWER

Office Repeater KO
Incorrect Option (Common) KC
D Bank KD
Fuse KF

BOARDS AND UNITS

D Bank Transmit Board LT
D Bank Receiving Board LR
Channel Unit LC

PATCH ACCESS

Dirty Jack MD
Broken or Defective Jack MB

WIRING

ABAM Cable NA
Cross Connect NC
Protector Frame NP
Frame Wiring NF

TEST RESULTS

No Trouble Found ON
Cleared While Tracing OC
Not Stabilized OS
Miscellaneous or Other OO

MAINTENANCE ITEMS

Order Wire PO
Fault Locate Line PL
Fault Filter PF

NOTE: Suffix code with Ø if trouble is outside maintenance territory.

Fig. 5A

Radio Alarm & Control	14C	C1 Type	4408A	21
	14E2	E2 Type	4408A	21
	14XX	Other	4408A	21
Radio Protection Switching	15A1	100A Type	4408A	27-29
	15A2	200A Type	4408A	27-29
	15TD	TDAS Type	4408A	27-29
	15TH	THAS Type	4408A	27-29
Power Bell System	16BB	Batteries	4410	08
	16BF	Fuses	NA	NA
	16BC	Converters	4410	*
	16BI	Inverters	4410	*
	16BR	Rectifiers	4410	07
Pwr Com	16CF	Failure	NA	NA

* Included in the "miscellaneous additive" category which automatically provides an allowance factor times the number of key items inventoried.

NA = Not Applicable

Fig. 12A

EQUIPMENT TROUBLE SUMMARY

Office ALPHAPeriod Covered 1971

EQUIPMENT CODE	COUNT	AVG. PREV. YEAR	CUR OBJ	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL		
1VR	200	5	4	0	0	1	← See below (80 V3 repeaters added 4/3/71-947K Job) →											
1M	36	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1		
1ES	180	3	1	0	0	1	0	1	0	0	0	0	0	0	0	2		
2SF	575	36	30	2	3	0	1	3	0	6	6	0	0	2	0	23		
2SFT	50	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
50NR	16	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2		
5N3R	6	1	0	0	0	0	0	0	1	0	0	0	1	1	0	3		
5N2G	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
5N2C	36	2	1	0	1	0	0	0	0	0	0	0	0	0	0	1		
5N3G	6	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2		
50NG	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50NC	40	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1		
6DT2	4	0	0	0	0	0	0	← See below (TD-2 Trans #5 in service 5/6/71-987K Job) →										
6DR2	4	0	0	0	0	0	0	← See below (TD-2 Rec #5 in service 5/6/71-987K Job) →										
9FMR	4	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1		
9FMT	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1VR	280	-	5	← See above →				0	2	Note 1 6	0	0	0	0	0	1	10	
6DT2	5	-	0	← See above →				0	0	0	0	0	0	0	0	0	0	
6DR2	5	-	0	← See above →				0	0	0	0	0	0	0	0	0	0	

REMARKS

Note 1 - Excess troubles due to wiring error - Corrected 6/23/71 (DES)

**SERVICE REPORT OR TROUBLE TICKET
ACCOUNTABILITY TALLY SHEET**

SERIAL NUMBERS ON FORMS _____

001	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

Period Covered: From _____ to _____

Exhibit 1