TRAFFIC REGISTER ASSIGNMENTS — REGISTER ORDERS NON-TUR ROUTE RELAYS FOR PEG COUNT AND OVERFLOW REGISTER ASSIGNMENTS NO. 5 CROSSBAR

Contents Page

1. GENERAL

1.01 This appendix supplements Section 218-040-022. It provides:

- A description of No. 5 Crossbar route relay and associated equipment component functions.
- A guide for the assignment of peg count and overflow registers and the associated pin (pulse) jacks, for non-Engineering and Data Acquisition System (EADAS) offices.
- A guide for the assignment of peg count and overflow Data Collection Devices (DCDs) for EADAS.

1.02 It is reissued to provide updated information.

Note: Marginal arrows used to denote changes are omitted.

1.03 The route relays are associated with trunk groups requiring these measurements. The description of route relays and associated equipment is intended to provide an understanding of their function and the need for accurate and current assignment to peg count and overflow registers to provide valid trunking data.

2. RESPONSIBILITIES

2.01 Network Administration Center (NAC)/ Network Data Collection Center (NDCC): The NAC is responsible for the assignment of peg count, overflow registers and pin jacks for non-EADAS offices. In an EADAS environment, the NDCC has responsibility for the assignment of peg count, overflow DCDs and providing cross-connect information. Both work groups issue cross-connect assignments to Switching Maintenance.

2.02 The Area Trunk Assignment Bureau/Common Control Order Group (ATAB/CCOG) is responsible for route relay assignments, route relay cross-connects, preroute relays, trunk and sender allotter assignments, Individual Peg Count (IPC) relays, IPC cross-connects and other cross-connects, as required.

2.03 The NAC or the NDCC should reproduce two copies of Form F 829, TUR and Traffic Register Order (non-EADAS) or Form P 4344, EADAS-Peg Count, Overflow and TUR Assignments for cross-connects. These forms should reach Switching Maintenance no later than 10 business days prior to the due date. Western Electric (WE) job orders shall be forwarded to reach Switching Maintenance by the date established by the job committee or the equipment supervisor. Discrepancies noted by Switching Maintenance shall be discussed with the NAC or the NDCC before changes are made. Upon completion, Switching Maintenance will indicate any corrections in red, date and sign the order, and return one copy to ATAB and one copy to the NDCC or NAC. ATAB will reissue the order reflecting any changes.

3. ROUTE RELAY FUNCTIONS

3.01 The operation of a route relay makes it possible to condition the completing or combined marker for the items of information listed below:

- Trunk selection — trunk block (TB) and trunk group (TG)

  Note: The abbreviation TG will mean trunk group throughout this section. It should not be confused with the TG punching on the trunk link frame (see 3.09).

- Sender group selection
- Route advance
- Digit deletion
- Prefixing of digits
- Code conversion
- Called number structure
- Code pattern
- High 5, low 5 indications

3.02 In general, all calls which require identical treatment for all of these items are directed to the same route relay. Where there is a difference in any one of the items, additional route relays are required.

3.03 ***Route-Advance Traffic:*** When a TG has both first-route traffic offered to it and traffic which is route-advanced to it from another group, it is necessary to provide a separate route relay for handling the traffic which is route-advanced to the group.

3.04 ***Ground Supplies:*** Each route relay is assigned in one of six ground supplies. Route advancing may be from a relay in any ground supply (except six) to a relay in any other ground supply. Within a given route-advance chain, it is not permissible to return to a previously used ground supply. Ground supplies five and six are reserved for final-route or last-end route relays. Outgoing trunk groups are assigned to ground supplies one through four. See Sections 218-060-190 and 218-060-200 for more details on route relays and ground supplies.

3.05 ***Route-Advance Functions:*** The No. 5 Crossbar completing marker is provided with a route-advance feature which enables it, when unable to complete a connection to the first route desired, to test up to three alternate routes in attempting to establish a connection to a trunk. The marker will route-advance whenever it finds any of the following conditions; there may be other conditions, however, these are the most common:

- All trunks busy in selected trunk group.
- All senders busy in selected sender group.
- A second failure to match condition.
- A double area code dialed by a customer.
- Called station is busy on an intra-office call.
- Call being processed is a reverting type call.

3.06 ***Route-Advance Conditions:*** Normal route-advance cross-connections usually provide for the following conditions:

- Intra-office overflow and reverting call trunk groups to the route relay for the combination tone trunks.
- Permanent signal holding trunks to the route relay for the common overflow trunks.
- Noncoin combination tone trunks to the route relay for the common overflow trunks.
- Coin combination tone trunks and common overflow trunks, with none of these trunks available (the marker signals the originating register to return an overflow signal; 120 IPM tone).

3.07 ***Charge Condition:*** When route-advancing occurs, the charge condition is established by the route series relay to which the first route relay is connected. Therefore, the route relay to which the call is advanced need not discriminate for charge condition.

3.08 ***Additional Route Relay Requirement:*** When a TG has both first-route traffic offered to it and also traffic which is route-advanced to it from another group, it is necessary to provide a separate route relay for handling the route-advanced traffic.

3.09 ***Trunk Selection:*** Cross-connections of the TB and TG punchings furnish leads through the trunk link connector circuit. This causes the selection of a trunk in the desired TG on the trunk link frame. A minimum of one route relay is required for each outgoing TG.

3.10 ***Sender Group Selection:*** The outsender group (OSG) cross-connection causes selection of a sender in the sender group associated with the TG selected. The sender and trunk are connected via the outsender link (OSL) frame.

3.11 ***Allotted Trunk Groups:*** If any TG is allotted to two different TB relays on the trunk link frame, a statement should be included in the Traffic Equipment Order (TEO). If more than one group of outsenders is to be assigned to a particular route, a statement to that effect should also be included in the TEO.

(a) Wire Spring (WS) and Flat Spring (UY) relay markers are equipped with four allotter circuits so that four TGs may be assigned using the allotter.

(b) The groups must be assigned one group to a pair of route relays in each of ground supplies one through four.

Note: UY relay markers normally use route relays 10 through 19 in ground supply four.

(c) Four allotter circuits are provided, and their association with ground supplies should be as follows:

Allotter Circuit	*Ground Supply*
0	1
1	2
2	3
3	4

Notes:

1. In some offices there may be an option to cross-connect any allotter circuit to any ground supply (one through four).

2. See Sections 218-060-190 and 218-060-200 for further reference on allotted trunk groups.

3.12 ***Trunk Group Ground Supply Assignments:*** These assignments are handled as follows:

(a) The intra-office TGs may be assigned to any of the first four ground supplies. They must be in a different ground supply than the TG over which reverting calls are handled.

(b) Stuck coin trunks, permanent signal, non-coin combination tone trunks should be assigned to ground supply five.

(c) Coin combination tone trunks and common overflow trunks should be assigned to ground supply six.

(d) Outgoing routes which include interoffice, intermarker group, groups to tandem, toll switching, intertoll, service routes, etc, are assigned in ground supplies one through four.

3.13 ***Peg Count Register — Provision and Operation:*** Peg count (PC) registers are handled as follows:

(a) PC registers should always be provided on operator, final and high usage groups, intermarker groups, intra-office, reverting, and miscellaneous groups.

(1) All TGs listed on the trunk forecast need PC, overflow, and usage register assignments. If the three measurements cannot be provided, the following guidelines are furnished to assist the NAC and NDCC in the assignment of peg count, overflow and usage registers (DCDs) for trunking:

- Preferred: Usage, Peg Count, Overflow
- 2nd choice: Usage
- 3rd choice: Peg Count, Overflow

(2) All miscellaneous groups (ie, announcement trunks, tone trunks, centrex data, intercept trunks, etc) to be assigned PC, overflow, and usage registers are listed in Section 218-040-022 with Equipment Measurement Codes (EMCs).

(3) TEO will specify the amount of registers provided for each office. Table A indicates the registers required for various sized TGs.

TABLE A

TOTAL TRUNK GROUP SIZE	REGISTERS REQUIRED
1-60	ONE PER TG
61-100 (IPC REQUIRED)	TWO PER TG, ONE EACH FOR ODD AND EVEN NUMBERED MARKERS
MORE THAN 100 (IPC REQUIRED)	ONE REGISTER PER MARKER FOR EACH TG

(b) PC registers are scored by the combined or completing marker circuit over the route relay PC or IPC lead when the marker offers a call to the TG. Hence, in addition to the completed calls, the scorings include attempts where all trunks or junctors are busy, all senders associated with the TG are busy, the called line is busy on an intra-office call, or a reverting call is involved. The latter two conditions score the register associated with the intra-office TG. The marker does not score on marker pulse conversion calls or on connections to originating registers.

3.14 ***Overflow Registers — Provision and Operation:*** Overflow registers are handled as follows:

(a) One overflow register is provided per TG. These registers are provided on operator, final and high usage groups, intermarker, interoffice, and reverting groups.

(b) The overflow register is scored by the combined or completing marker circuit over the route relay OF lead. This occurs when it finds all trunks in the group busy while trying to set up a connection from a line equipment (customer or trunk) to a trunk.

3.15 ***Preroute Peg Count Feature:*** Preroute PCs are used for dynamic overload control, traffic to a specific code (or codes), and special studies (as requested).

(a) Where routes have the same trunk information but different charge patterns, a reduction in route relay requirements can be effected by utilizing the preroute PC circuit modification in the WS marker. A maximum of 40 circuits may be equipped and requirements must be specified in TEO.

(1) These preroute PC circuits in the WS marker are used to control operation of 40 preroute PC traffic registers which can provide a count by code destination as the outgoing calls are routed over specified trunk groups.

(2) UY marker relays may also be equipped for a maximum of 20 of these circuits with the traffic register function only.

(b) The ATAB/CCOG would assign a preroute relay on a cross-connect order, Form P 3169-ATAB.

(c) The NAC assigns the pin jack and registers (DCDs) associated with preroute relays in a non-EADAS office, as shown in Exhibit 9.

(d) In an EADAS environment, the NDCC assigns the DCDs, associated punchings, and EMCs.

4. ASSIGNMENT PROCEDURES FOR ROUTE RELAYS TO PEG COUNT AND OVERFLOW REGISTERS

4.01 In order to provide accurate and valid trunk study data, it is important that the relationship of the route relay association with the traffic carried on each TG be understood and PC and overflow registers assigned accordingly. The preceding paragraphs described the use, operation, and assignment of route relays and associated equipment. The remainder of this appendix describes the following:

- Trunk Order (TO) flow
- Source of route relay assignment information
- Wiring lists
- Examples of how to assign the proper route relays
- TB and allotting circuits to PC and overflow registers

4.02 ***Trunk Orders:*** The NAC or the NDCC should receive a copy of the TO from the ATAB on all TG activity. Some offices have converted to a mechanized trunk order which replaces the

present manual form. (See Form P 3334-ATAB, Exhibit 12A). Exhibit 19 shows a sample of a mechanized trunk order that the NAC or NDCC may receive. The following actions will require a change in a PC and overflow assignment:

- Change, disconnect, or add a route relay.
- Disconnect a TG.
- Establish a TG.

4.03 ***Source of Route Relay Assignment:*** The route relay can be obtained from the Trunk Record (Form P 3337-ATAB, Exhibits 1A, 1B or 1C) or from the cross-connect order (Form P 3141-A-ATAB, Exhibit 2, which includes a description of form entries). A minimum of one route relay is required for each outgoing trunk group, although there may be several route relays associated with one TG. The ATAB will identify on the Trunk Record those route relays that have initial and last access to the TG.

(a) The initial route relays are those operated from original route traffic (first route relay after the code) or alternate route traffic (route-advancing from some other TG). These route relays will be associated with PC registers (DCDs).

(b) The last route relays are those having the last access to the TG prior to route-advancing to another trunk group. These route relays will be associated with overflow registers (DCDs).

(c) The majority of TGs will associate all route relays with PC and overflow registers (DCDs).

(d) Initial access will also include any test codes that are used to access TGs.

4.04 ***Register Assignments for Trunk Groups Having Less than 61 Trunks:*** The route relays will be obtained from the Trunk Record. Normally one register (DCD) each will be required for PC, overflow, and usage data. Examples of orders in a non-EADAS office are shown in Exhibit 3, 5 and 7 (Form F 829). Examples of orders for an EADAS office are shown in Exhibits 6 and 8. Exhibit 4 includes instructions for using Form LF 4771.

4.05 ***Register Assignments for Trunk Groups With 61 or More Trunks:*** A maximum of 10 IPC relays per completing marker can be provided for TGs with 61 or more total trunks. The number of IPC relays provided will be specified on the TEO.

(a) The central office wiring list (ie, T27XX-5260) will list the IPC relays and other assignment information. See Exhibits 17A through 17C for examples of wiring lists (drawings).

(b) The ATAB/CCOG will assign the IPC relays and issue a cross-connect order (see Exhibit 18). See Exhibits 10, 11, 13 and 14 for examples of cross-connect orders for trunk groups associated with IPC relays.

(c) Whenever trunk groups are established with 61 to 100 trunks or 100 or more trunks, ATAB/CCOG will assign the IPC relays. Peg count and overflow assignments should be assigned by the NAC or NDCC as indicated in 4.06, Notes.

(d) Where more than 10 IPC relays are required, the NAC and Trunk Engineering will determine which TGs will be associated with IPC relays. In an EADAS environment, the NAC should notify the NDCC, via an Intra-Company Memorandum, regarding any IPC assignment changes. The NDCC will issue the cross-connect assignments to Switching Maintenance.

(e) Once the trunk group is established, there will be no notification from the ATAB on TGs adding or disconnecting trunks for groups over 100 trunks. If fewer or additional registers (DCDs) are required the NAC or the NDCC will be responsible for this assignment based on the guidelines in 4.06, Notes.

(f) Whenever a completing marker is installed at a Central Office in accordance with a WE job, Switching Maintenance should verify that the proper amount of IPC relays are provided and that they are wired properly.

4.06 ***Register Assignment for a TG with Two (Split) TBs:*** When there are more than two subgroups (or split TBs), an IPC relay would be required when the total TG is more than 60 trunks. Registers (DCDs) will be required as follows:

- One PC register (see Notes)

- One overflow register
- One usage register

Notes:

1. For 61 to 100 trunks, one register each for odd and even numbered markers.
2. When more than 100 trunks are in a TG, an IPC relay must be assigned with one register per marker.

Example: TB2 — 33 Trunks
TB3 — 29 Trunks

Route Relays for TB2: 166, 167, 168, 121, and 122

Route Relays for TB3: 191, 178, 187, 190, and 186

Initial and Last Access Traffic Route Relays —
TB3: 132, 133, 134, and 135

(1) When all 33 trunks in TB2 are busy, the route relays will route-advance to a trunk in TB3 (29 trunks).

(2) Peg count registers will be associated with route relays 166, 167, 168, 121, 122, 132, 133, 134, and 135.

(3) An overflow register will be associated with route relays 191, 178, 187, 190, 186, 132, 133, 134, and 135. The overflow must be associated with the trunks in TB3 since that is the final route. If the associated route relays in TB2 were assigned to an overflow register, overflow peg count would be received on every call that route-advanced to TB3.

(4) The Trunk Order (Form P 3334-ATAB) and Trunk Record (Form P 3337-ATAB) may specify the amount of trunks in each TB, as shown in Exhibits 12A and 12B. If information is not available, contact the ATAB/ Trunk Assignment Group (TAG) to get the amount of trunks assigned to each TB.

(5) On the Traffic Usage Recorder (TUR) and Traffic Register Order (Form F 829), show the amount of trunks in each TB as shown in Exhibit 11.

(6) In an EADAS environment, the NDCC assigns the DCDs for peg count and overflow data on Form LF 4771. This form is sent to Switching Maintenance for cross-connecting (see Exhibit 15).

4.07 ***Register Assignment for a Trunk Group with TB Allotting:*** When large TGs have split TBs, TB allotting should be used. Trunk groups such as intra-office, inter-marker group, or toll switching groups may require allotting. This information will be obtained from the ATAB/CCOG cross-connect order. Form P 3169-ATAB will provide this information (see Exhibit 18).

(a) When TB allotting is assigned, the allotter circuit number and IPC relay number should be the same as shown in Table B. It is recommended to use IPCs 04 through 09 for TGs not using allotter circuits.

(b) Registers for allotted TGs will be assigned using normal procedures as explained in 3.13 and 3.14 (see Exhibits 16A and 16B for an example of allotted TG assignment).

TABLE B

GROUND SUPPLY	ALLOTTER CIRCUIT	IPC NO.
1	0	00
2	1	01
3	2	02
4	3	03

4.08 ***Trunk Order Completion:*** When a completion notice is received from Switching Maintenance on a Trunk Order or cross-connect order, the NAC or NDCC should enter the completion date on the Order Activity Log (Form F 830) or the Trunk Order Activity Log (Form LF 4708) and on the trunk order itself. At this time, the NAC or NDCC should update the appropriate Total Network Data System (TNDS) data bases to reflect any changes.

4.09 Trunking data should be obtained for a few days to analyze results on that group for the following:

(a) Detector test should agree with number of trunks connected.

(b) Disconnected groups should have zero peg count, overflow, and usage.

(c) New groups should have some peg count and usage as soon as the Trunk Order is completed.

(d) Trunk usage may increase when additional trunks are added, especially an overloaded trunk group.

(e) If TUR data is zero and peg count is greater than zero, the TUR data may be invalid.

(f) If overflow exceeds the PC, one or both sources of data may be invalid.

(g) PC and overflow scorings can be reasonably validated by using assumed holding times when overflow has been reached.

(h) Using PC and assumed holding times, determination can be made whether overflow should occur.

(i) Total calls per hundred seconds (CCS) should be no higher than the number of trunks in the group times 36 CCS.

Note: Any of the above items would indicate a data problem. There may be other conditions that would indicate invalid data, however, the ones listed above are the most common.

4.10 The cross-connect order pages should be interfiled so an up-to-date record is available to the NAC or NDCC. The common control orders will be sent to the NAC in offices without EADAS. In an EADAS office, the NDCC will receive common control orders.

4.11 ***Trunk Order Check List:*** The Trunk Order Check List (Table C) may be used by the NAC or NDCC to ensure that all necessary forms are updated when TOs are completed. Forms F 826, F 827, F 829, F 830 and F 831 are to be utilized by the NAC for non-EADAS offices. Forms LF 3486, LF 4708, P 3799, P 4253 and LF 4771 are to be utilized by the NDCC for EADAS offices.

TABLE C

TRUNK ORDER CHECK LIST

FORM NUMBER	DESCRIPTION	DATE COMPLETED	DIAL OFFICE CLERK
F 826	REGISTER LAYOUT		
F 827	TUR SCAN SWITCH		
F 829	TUR & TRAFFIC REGISTER ORDER		
F 830	ORDER ACTIVITY LOG		
F 831	PIN JACK FIELD		
LF 3486	RELAY RACK TO TUR ASSIGNMENT CHART		
LF 4708	TRUNK ORDER ACTIVITY LOG		
P 3799	EADAS/ICUR CIRCUIT GROUPING UPDATE		
P 4253	ETDC INPUT ASSIGNMENT CARD		
LF 4771	EADAS-PEG COUNT, OVERFLOW AND TUR ASSIGNMENTS		
*OS RECORD	RECORD OF TRUNKS PER SENDER GROUP		
*IR RECORD	RECORD OF TRUNKS PER INC. REG. GROUP.		
TUR DET. TEST	TUR DETECTOR TEST		
TDAS	SOURCE DOCUMENTS		

*INFORMATION MAY BE OBTAINED FROM ATAB IN SOME AREAS.

4.12 Bell System Practice (BSP) References:

Section 218-020-040
Section 218-040-020
Section 218-040-022
Section 218-060-140
Section 218-060-150
Section 218-060-190
Section 218-060-200
Section 252-122-105
Section 780-400-355

Pacific Telephone
Nevada Bell

TRUNK RECORD

P 3337-ATAB (1-75)
(F 1295)

TGID No./CGSN	Control Office	Page	of
N7710-033	SNJS CA 14 X 0	1	2

Location "A"	Pulse	Location "Z"	Tfc.-Cls.	Ofc.-Cls.	Use	Modifier	Order Number
SNJS CA 14 26G (25XMO) M-		MLPS CA11 26C(25XMO)	PH	55	IE	ILEXT	A4D5-134861

Office HML	Trunk No.	On Off Act.	TL FR	TL SL	OSL FR	OSL TS	OSL SV	AMA RCDR	AMA CII	TRK EQUIP AISLE	TRK EQUIP FR	TRK EQUIP CKT	TRK EQUIP LOC	TRK EQUIP AISLE	TRK EQUIP FR	TRK EQUIP CKT	TRK EQUIP LOC	IRL FR	IRL SV	TL FR	TL SL	Dsn. Num.
M	1		25	A64	9		4-2	1	20	107	16	16	L44-45	106	08	06	M-29	1	1-06	06	B65	
	2		14	A64	5		6-5	6	68	117	12	34	L57-58	106	12	06	L-30	1	2-26	07	B62	
	3		09	A54	3		6-11	4	47	107	13	09	N21-22	103	09	08	M-61	3	0-38	12	B84	
	4		10	A44	4		0-9	5	23	107	04	08	L39-40	107	00	16	L-17	0	1-25	03	B63	
	5		07	B04	2		8-15	3	48	106	12	10	L30	103	09	12	M-61	3	1-32	13	B23	
	6		08	A44	3		2-17	4	12	107	05	06	M29-30	108	01	26	L-1	0	2-02	00	B69	
	7		13	A74	5		2-17	4	79	117	04	30	L59-60	108	23	46	L17	0	0-22	01	B64	
	8		07	A64	0		8-0	3	08	106	12	06	L30-32	106	12	07	L30	1	2-27	07	B72	
	9		02	A44	0		8-9	2	83	105	06	32	L-6	107	01	16	L34	0	2-33	09	B68	
▼	10		01	A44	0		4-0	1	22	105	43	31	L27-28	106	20	11	L29	1	3-31	08	B15	

Trunk Group Common Assign	On Off Act.	INITIAL & LAST ACCESS SERB	TB	TG	FTC	IRL-CL	TL-CL
		0	2	06	95	4	25A

ROUTE RELAY FOR PEG COUNT AND OVERFLOW

Ph Trunk Group
Exhibit 1A

Pacific Telephone
Nevada Bell

TRUNK RECORD

P 3337-ATAB (1-75)
(F 1295)

TGID No./CGSN	Control Office	Page	of
N 8100-123	SNJS CA 13 X 0	1	6

Location "A"	Pulse	Location "Z"	Tfc.-Cls.	Ofc.-Cls.	Use	Modifier	Order Number
SNJS CA 13 22C	M-	HYWR CA 02 46T	IH	5-3	TO	LAMA	A4D4-144862

H M L	Trunk No.	On Off Act.	Office: TLF FR	TLF SL	OSL FR	OSL S-V	AMA RCDR	AMA CII	AMA OGT Loc.	TRK. EQUIP. 2C6M-T26085 AISLE	FR	CKT	LOC	Dsn. Num.
H	1	ON	00	A27	6	0-11	12	00	1740	148	28	00	P130	
		OFF	18	A65	7	3-4	8	54	-	128	19	23	M103	
	2	ON	00	A37	6	0-12	12	10	1741	148	28	01	P130	
		OFF	21	A85	8	5-8	9	80	-	128	27	26	M109	
	3	ON	04	A57	6	2-13	12	12	1742	148	28	24	P131	
		OFF	21	A95	8	5-9	9	90	-	128	27	29	M109	
	4	ON	04	A47	6	2-12	12	02	1743	148	28	23	P131	
		OFF	22	A65	9	0-6	9	65	-	128	31	26	M111	
	5	ON	06	A37	6	3-11	12	13	1744	148	30	07	P133	
		OFF	22	A95	9	0-9	9	95	-	128	31	29	M111	
	6	ON	23	A66	9	9-13	13	62	1745	148	17	26	M139	
		OFF	23	A35	9	6-3	10	96	-	128	43	13	M119	
	7	ON	23	A76	9	9-14	13	72	1746	148	17	27	M139	
		OFF	23	A85	9	6-6	10	47	-	128	43	16	M119	
	8	ON	23	A86	9	9-15	13	82	1747	148	17	28	N139	
		OFF	23	A95	9	6-9	10	57	-	128	43	19	N119	
	9	ON	10	A37	6	5-12	12	25	1748	148	19	04	P135	
		OFF	24	A25	10	1-2	10	21	-	128	37	12	M117	
↓	10	ON	08	A47	6	4-12	12	24	1749	148	30	22	P135	
		OFF	24	A35	10	1-3	10	31	-	128	37	13	M117	

Trunk Group Common Assign	On Off Act.	INITIAL & LAST ACCESS SDR	TB	T6	FTC					
	ON	MF3	4	18	109	185	186	108	159	160
	OFF	MF2	3	18	109	185	186	108	-	-

ROUTE RELAYS FOR PEG COUNT AND OVERFLOW

IH Trunk Group
Exhibit 1B

Pacific Telephone
Nevada Bell

TRUNK RECORD

P 3337-ATAB (1-75)
(F 1295)

TGID No./CGSN	Control Office	Page	of
N8100-132	SNJS CA 13 X0	1	2

Location "A"	Pulse	Location "Z"	Tfc.-Cls.	Ofc.-Cls.	Use	Modifier	Order Number
SNJS CA 13 22C	M-	SNTC CA01 20T	AF	5-0	TO		A4D4-145751

Office HML	Trunk No.	On Off Act.													Dsn. Num.
H	1	ON	18	A11	13	189	9-11	17	0-5	120	127	13	18	N157	
	1	OFF	01	A11	13	-	0-11	15	9-0	120	127	01	09	J151	
	2	ON	18	A21	13	190	9-12	17	1-5	121	127	13	19	N158	
	2	OFF	01	A21	13	-	0-12	15	0-1	121	127	01	10	J152	
	3		01	A31	13		0-13	15	1-1	122	127	01	11	J151	
	4		01	A41	13		0-14	15	2-1	123	127	01	12	J151	
	5		01	A51	13		0-15	15	3-1	124	127	01	13	J152	
	6		01	A61	13		0-16	15	4-1	125	127	01	14	J152	
	7		01	A71	13		0-17	15	5-1	126	127	01	15	J153	
	8		01	A81	13		0-18	15	6-1	127	127	01	16	J153	
	9		01	A91	13		0-19	15	7-1	128	127	01	17	J153	
↓	10		03	A11	13		1-11	15	7-2	129	127	01	18	J153	

Trunk Group Common Assign	On Off Act.	→ INITIAL & LAST ACCESS ←												
		SDR	TB	TG	FTC									
		5	9	02	131	132	125	126	127	128	129	140	150	151

ROUTE RELAYS FOR PEG COUNT AND OVERFLOW

Final Trunk Group
Exhibit 1C

DESCRIPTION OF ENTRIES FOR FORM F 3141-A-ATAB

1. To "RC": Every installed route relay in numerical sequence. The TEO shows amount of route relays installed.
2. GRD. SUP: Ground supply next to each route relay. TEO shows ground supply arrangement.
3. Marker Type: Wire Spring or Flat Spring.
4. TB: Trunk block relay number to which trunks are assigned.
5. TG: Trunk group relay number to which trunks are assigned.
6. Trunk Grp No.: Trunk group ID number.
7. Trunk Group Name: Common language trunk group name.
8. Trk Group Class: Type of trunk equipment assigned to a TLF (trunk line frame).
9. Trk Group Usage: Type of trunk group (PH, IH, CF, FG, etc).
10. Alt Rte: Route relay number to which this route relay will route advance.
11. Sender Group and Pulsing Type: Type of sender and sender group number the trunks are assigned.
12. Digits Out: Quantity of digits to be actually outpulsed.
13. Order No.: Last completed common control order number associated with the route relay.
14. Due Date: Completion date of common control order.

Crossbar Systems No. 5
Route Relay Cross-Connect Maintenance

N7710-

MKR Grp. 0

Order 262572 Effective Date 11-1-82 Issue 3 Issue Date 6-1-82 Office SNJS CA14 26G

1	Code			P30								CG 40
2	Order No.											C206917
3	Due Date											11-1-82
4	Cross-Connect	From										
5		To										
6		From							RAG 03			
7		To							ID 02			
8		From							IR 02			SEE SKETCH
9		To										
10	To "RC"	Grd. Sup.	05	15/11	25/3	35/4	45/1	55/4	65/4	75/4	85/1	95/4
11	Marker Type		W5									
12	From RR Terminals	R	–									
13		TB	TBC	5					RB 4			RG 11
14		TG	TGC	16					02			09
15		RA	–	RAG 31					RAG 34			RAG 02
16		OS	–	OS-0					OS-3			OS-1
17		CL	CL	–					25			25
18		CR	CR	–					IMG-M			55
19		DL	DL	NDI					05			05
20		CP	CP						–			–
21	Sketch Number			–					–			2.1
22	Trunk Group No								058			033
23	Trunk Group			ANA					SNJS M2LH			MLR 11 2LC
24	Trk. Grp. Class			2CSM					JBI			IC34M
25	Trk. Grp. Usage/Alt. Rte			FINAL					FINAL			PH/23
26	Sender Grp. & Pulsing Type			MF-0					IMG-3			MF
27	Digits Out			–					–			7

NOTES (1) For Detailed X-Conn Of "S" Relay Contacts, See "SC" Section.

Route Relays 05 To 95

Exhibit 2

F 829 (3-69)
T.I. 421

TUR & TRAFFIC REGISTER ORDER

TRK GROUP or EQUIP NOTES: SNJS CA14 26K → MLPS 11 92C PH

ID NUMBER: N7750-038
ORDER NO.: A4D5-134862
PAGE 1 OF PAGES 5
ISSUED BY: R. BUSH
DATE ISSUED: 6-1-82
DUE DATE—ON OR BEFORE: 7-15-82
COORDINATE WITH:
RESCHED DATE:
REASON:
DATE ORDER & CONTINUITY TEST COMPLETED:
COMPLETED BY:
RETURN TO: NET. ADMIN.

ITEM	ACTION	TUR-FR F	S	C	H	V	RG NO.	DGU	REG-TS BK	REG-TS PCHG	PJ CAB	PJ NO.	REGISTER CAB	REGISTER NO.	TYPE	ITEM TO BE MEASURED	QTY	ASSIGNMENT	TUR-DF CL	TS	R	P
											103	24	103	2520	PC	TRKS 1-66 ODD MARKERS	66	RR 95 G5 4 IPC 5				
											103	25	103	2521	PC	TRKS 1-66 EVEN MARKERS	66	RR 95 G5 4				
											103	26	103	2523	OVFL	TRKS 1-66	66	RR 95 G5 4				

Non-EADAS Office — PH Trunk Group
Exhibit 3

DESCRIPTION OF ENTRIES FOR FORM LF 4771

1. OFFICE NAME: Enter the office name.
2. ISSUED BY: Name of the dial office clerk preparing the assignments.
3. TEL NO: Telephone number of the dial office clerk preparing the assignments.
4. DATE ISSUED: Date cross-connect assignments are issued to Switching Maintenance.
5. TRUNK GROUP: Enter the trunk group name.
6. TGID: Enter the trunk group identification number as shown on the trunk order.
7. CGSN: Enter the circuit group serial number as shown on the trunk order.
8. ORDER NO: Enter the order number of the trunk order.
9. DUE DATE: Enter the date that the cross-connect order is due to complete.
10. COMPLETED BY: The name of the Switching Maintenance personnel completing the work.
11. TEL NO: The telephone number of the Switching Maintenance personnel completing the work.
12. COMP. DATE: Enter the date the work is completed.
13. PAGE OF : Enter the individual page and total page numbers.
14. RETURN TO: Enter the address of the Dial Office Clerk preparing the assignments.
15. ITEM: Enter the item number in sequential order.
16. ACTION: Enter ON or OFF. Lower portion of each space should contain the OFF action and the upper portion should contain the ON.
17. MEAS. TYPE/PCHG: Enter the type of data measurement
    - PC = Peg Count
    - OVF = Overflow
    - USG = Usage
18. CARD #: Enter the ETDC card number that contains the DCD.
19. POS #: Enter the position number of the DCD on the ETDC card.
20. DCD: Enter the assigned DCD number.
21. FTC (RR): Enter the route relays as indicated on the Trunk Record. Initial access route relays are used for peg count. Last access route relays are used for overflow.
22. DIST. FRAME: Enter the TUR distributing frame location assignment.
23. AISLE, FRAME, CKT: Enter the aisle, frame and circuit TUR assignment.
24. TUR: Enter the TUR frame, switch, contact, horizontal and vertical assignment.
25. REMARKS: Self-explanatory.

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: 1				Trunk Group: 5				Due Date: 9				Page	Of 13
Issued By: 2				TGID: 6				Completed By: 10				Return To: 14	
Tel. No.: 3				CGSN: 7				Tel. No.: 11					
Date Issued: 4				Order No.: 8				Comp. Date: 12					

Item 15	Act 16	Meas. Type/ Pchg. 17	Card No. 18	Pos. No. 19	DCD 20	FTC (RR) 21	Dist. Frame				TUR Assignments						Remarks 25
							Vert	Blk	Row	Pchg.	Aisle, Frame Ckt. 23	TUR					
												FR	S	C 24	H	V	

Exhibit 4

F 829 (3-69)
T.I. 421

TUR & TRAFFIC REGISTER ORDER

TRK GROUP OR EQUIP: SNJS CA 13 22C → HYWR CA 02 46T IH	ID NUMBER: N8100-123	ORDER NO.: A4D4-144862	PAGE 1 OF PAGES 1
NOTES: ADD: 4 TKS (55-58) PC & OVF	ISSUED BY: I.M. YOUNG	DATE ISSUED: 1-10-82	DUE DATE—ON OR BEFORE: 2-28-82
	COORDINATE WITH	RESCHED DATE	REASON
	DATE ORDER & CONTINUITY TEST COMPLETED	COMPLETED BY	RETURN TO: I.M. YOUNG

ITEM	ACTION	TUR-FR F	S	C	H	V	RG NO	D G U	REG-TS BK	REG-TS PCHG	PJ CAB	PJ NO.	REGISTER CAB	REGISTER NO.	TYPE	ITEM TO BE MEASURED	QTY	ASSIGNMENT	TUR-DF CL	TS	R	P
1	ON										4	003		1302	PC	TKS 1-58	58	RR 109,185,186,108,159,160				
	OFF															TKS 1-54	54	RR 109,185,186,108	AF	3B	26	5
2																(FUTURE PC)						
3	ON										4	005		1303	OVF	TKS 1-58	58	RR 109,185,186,108,159,160				
	OFF															TKS 1-54	54	RR 109,185,186,108	J	7D	13	4
4																						

Non-EADAS Office — IH Trunk Group
Exhibit 5

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: SHOK CA01 98H	Trunk Group: HLWD CA01 67J	Due Date: 9-7-82	Page 1 Of 1
Issued By: D.O. CLERK	TGID: H9468-615	Completed By:	Return To: 14709 VANOWEN
Tel. No.: 786-0143	CGSN: AB055000	Tel. No.:	RM 203
Date Issued: 7-7-82	Order No.: SH3M.670000A	Comp. Date:	VAN NUYS

Item	Act	Meas. Type/ Pchg.	Card No.	Pos. No.	DCD	FTC (RR)	Dist. Frame				TUR Assignments							Remarks
							Vert	Blk	Row	Pchg.	Aisle, Frame, Ckt.	TUR						
												FR	S	C	H	V		
1	ON	PC	1	16	048	065	8	D	29	6								
2	ON	PC	1	16	048	066	8	D	30	1								
3	ON	OVF	3	12	098	065	8	D	36	4								
4	ON	OVF	3	12	098	066	8	D	36	5								

EADAS Office — IH Trunk Group
Exhibit 6

F 829 (3-69)
T.I. 421

TUR & TRAFFIC REGISTER ORDER

TRK GROUP or EQUIP: SNJS CA13 22C → SNTC CA01 20T AF
ID NUMBER: N8100-132
ORDER NO.: A4D4-145751
PAGE 1 OF PAGES 1

NOTES: REARRANGE TRUNKS 1 & 2
ADD: 4 TRUNKS 41-44
ISSUED BY: I.M. YOUNG
DATE ISSUED: 5-20-82
DUE DATE—ON OR BEFORE:
COORDINATE WITH:
RESCHED DATE:
REASON:
DATE ORDER & CONTINUITY TEST COMPLETED:
COMPLETED BY:
RETURN TO: I.M. YOUNG

ITEM	ACTION	TUR-FR F	S	C	H	V	RG NO	D G U	REG-TS BK	REG-TS PCHQ	PJ CAB	PJ NO.	REGISTER CAB	REGISTER NO.	TYPE	ITEM TO BE MEASURED	QTY	ASSIGNMENT	TUR-DF CL	TS	R	P
1	ON										4	013	1	1310	PC	TKS 1-44	44					
	OFF															TKS 1-40	40	RR 131,132,125,126,127,128,129,140,150,151	AF	3B	27	6
2																(FUTURE PC)						
3	ON										4	015	1	1311	OVF	TKS 1-44	44					
	OFF															TKS 1-40	40	RR 131,132,125,126,127,128,129,140,150,151	J	7D	14	12
4																						

Non-EADAS Office — Final Trunk Group
Exhibit 7

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: SHOK CA01 98H	Trunk Group: ELMN CA01 10T	Due Date: 9-7-82	Page 1 Of 1
Issued By: D.O. CLERK	TGID: H9468-004	Completed By:	Return To: 14709 VANOWEN
Tel. No.: 786-0143	CGSN: AB055601	Tel. No.:	RM 203
Date Issued: 7-7-82	Order No.: SH3C.9913.543	Comp. Date:	VAN NUYS

Item	Act	Meas. Type/ Pchg.	Card No.	Pos. No.	DCD	FTC (RR)	Dist. Frame				TUR Assignments							Remarks
							Vert	Blk	Row	Pchg.	Aisle, Frame, Ckt.	TUR FR	S	C	H	V		
1	ON	PC	1	16	049	069	6	D	30	4								
2	ON	↓	↓	↓	↓	083	6	D	30	5								
3	ON	OVF	1	16	050	069	6	D	36	1								
4	ON	OVF	↓	↓	↓	083	6	D	36	2								

EADAS Office — Final Trunk Group
Exhibit 8

F 1847 (3-72)

TRAFFIC REGISTER ORDER

PIN JACK TYPE

TRF. REG. ORDER NO. 73 ITEM 1

OFFICE LSAN CA07 64C

PAGE 1 OF 1 PAGES

DESCRIPTION CONNECT THE FOLLOWING REGISTERS TO THE PREROUTES ASSOCIATED WITH THE DYNAMIC OVERLOAD CONTROL CODE GROUPS.

PREROUTE C.G.	ROUTE	RELAY	TRK. GRP.	V TURDF PCHG	CONNECT TO PIN JACK OFF TRF REG. PJ CAB	CONNECT TO PIN JACK ON TRF REG. PJ CAB	TYPE OF MEASUREMENT	PATCH TO REGISTER FR PJ	PATCH TO REGISTER OFF REG.	PATCH TO REGISTER ON REG.
10	1	160	GRDN CA02 21T			3 98	PC			0342
11	2					99				0343
12	3					100				0344
13	4					101				0345
14	5					102				0346
15	6					103				0347
16	7					104				0348
17	8					105				0349

ASSIGNED BY ANN MILLER

TEL. NO. 670-0003 DATE 2-6-82

DUE DATE WITH MARKER CROSS CONN ORDER (DUE 9-8-82) XG 44-9521.14

COMPLETED BY ANN MILLER

TEL. NO. 670-0003 DATE 2-6-82

WIRE CHIEF: PLEASE NOTIFY TRAFFIC EQUIP./DIAL SERVS. MANAGER AS SOON AS WORK HAS BEEN COMPLETED. PLEASE CHANGE YOUR RECORDS AS REQUIRED.

Non-EADAS Office — Preroute Peg Count
Exhibit 9

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: LSAN CA07 22K	Trunk Group: LSAN CA07 22G	Due Date: 9-9-82	Page 1 Of 1
Issued By: D.O. CLERK	TGID: T6700-001	Completed By:	Return To: 14709 VANOWEN
Tel. No.: 786-0143	CGSN: AB067001	Tel. No.:	RM 203
Date Issued: 7-7-82	Order No.: SH43-9991-344	Comp. Date:	VAN NUYS

Item	Act	Meas. Type/ Pchg.	Card No.	Pos. No.	DCD	FTC (RR)	Dist. Frame				TUR Assignments							Remarks
							Vert	Blk	Row	Pchg.	Aisle, Frame, Ckt.	TUR FR	S	C	H	V		
1	ON	PC	3	16	835	47	12	B	5	6								IPC 01 MKR 100
2	↓	↓	↓	↓	836	↓	12	B	36	1								101
3					837		13	A	42	4								104
4					838		13	A	19	5								105
5					839		13	A	17	1								106
6					840		13	A	17	2								109
7					841		13	A	17	3								110
8		↓	↓	↓	842		13	A	17	4								111
9	↓	OVF	1	12	843	↓	14	B	12	1								

EADAS Office — IPC Assignments (More Than 100 Trunks)
Exhibit 10

F 829 (3-69)
T.I. 421

TUR & TRAFFIC REGISTER ORDER

TRK GROUP OR EQUIP: SNJS CA14 26K M→SNJS CA14 26G IMS-FR
ID NUMBER: N 7750-058
ORDER NO.: NN33-206802
PAGE 1 OF PAGES 12

NOTES: ADD 8 TRUNKS AS PROVIDED BY W.E. JOB
ISSUED BY: R. BUSH
DATE ISSUED: 8-27-82
DUE DATE—ON OR BEFORE: 10-22-82

COORDINATE WITH: 262 E JOB
RESCHED. DATE:
REASON:

DATE ORDER & CONTINUITY TEST COMPLETED:
COMPLETED BY:
RETURN TO: NET ADMIN.

ITEM	ACTION	TUR-FR F	S	C	H	V	RG NO.	D G U	REG-TS BK	REG-TS PCHG	PJ CAB	PJ NO.	REGISTER CAB	REGISTER NO.	TYPE	ITEM TO BE MEASURED	QTY	ASSIGNMENT	TUR-DF CL	TS	R	P
											103	01	103	2400	PC	TRKS 1-164 MKR 100	164	RR 51.65 IPC 01				
											103	02	103	2401	PC	MKR 101						
											103	03	103	2402	PC	MKR 104						
											103	04	103	2403	PC	MKR 105						
											103	05	103	2404	PC	MKR 106						
											103	06	103	2405	PC	MKR 109						
											101	68	103	2487	PC	MKR 110						
											104	21	103	2488	PC	MKR 111						
											103	128	103	2406	OEL	TRKS 1-164	164	RR 65				

94 TRKS ASSOC/W TB2
70 TRKS ASSOC/W TB4

(TB2 R.A. TO TB4)

Non-EADAS Office — IPC Assignments (More Than 100 Trunks)
Exhibit 11

Pacific Telephone
Nevada Bell

P 3334-ATAB (1-75)
(F 1293)

TRUNK ORDER

Order Control TAB A ☐ Z ☐

Assoc. Order LL ☐ IC ☐ ESSO ☐ SSO ☐ PNB ☐ IR ☐ SSN ☐ CTX ☐

Order Class. C Wkg. Days

T.O. Page 1 of Pages 7

Ckt. Prov. Bur. SF ☒ LA ☐

Location "A"	Pulse	Location "Z"	TFC-CLS	OFC-CLS	Use	Modifier
SNJS CA14 26K	M-	SNJS CA13 22C	AF	52	00	LAMA

TGID No. N7750.031 CGSN No.

Control Office: SNJS CA14 XO

PAC Reporting Office:

Project Coordination Office:

Order Number: A4D4·424620 CPB Iss Num.

Control Number: 267371 Cntl. Item

Due/Date (Comp. on or before): 10-22-82

Reschedule Date: Reason:

Plant Test Date:

TA Code: Prepared By:

Tel. No.:

Approved By: Date to TAB

Trunk Quantity Before	Trunk Quantity After	No. of Trks. Affected Add (A)	Disc (D)	Rearr (R)
62	62			6

ADR	Trunk Affected	** Cntl. Item	Manual Asgnmts. Ofc-A	Manual Asgnmts. Ofc-Z	Mech. Asgnmts. (CLR/CLO)
R	1	01	X	—	
	2	02		X	
	3	03		—	
	4	04			
	5	05			
	6	06			

Description of Work and Coordinate with Information

REARRANGE 6 TRUNKS FROM 1C 36M EQUIP. TO ½ C6M EQUIP. REARRANGE TRUNKS ON "Z" END FROM B164 TO B61M EQUIP.

SPLIT TBs - TB2 - 33 TRUNKS
- TB3 - 29 TRUNKS

C/W SNJS 14 262E JOB.

Assoc. Ord. No.:

Design No.	Trunk Numbers	Location "A" Equip. or Assembly Code	Location "Z" Equip. or Assembly Code
8001	1-6	½ C6M	B61M

Alt. Route Before Loc'n "A" / Loc'n "Z"

Alt. Route After Loc'n "A" / Loc'n "Z"

Routing Chg. Yes ☒ No ☐

Notes: REUSE ALL EQUIPMENT AND FAX

"A" TAB	"Z" TAB
TR Pages Affected: 1 OF 7	TR Pages Affected: 1 OF 7
TAB Code: 405	TAB Code:
Prepared By: V. POND	Prepared By: E. LAKE
Tel. No.: 291-7001	Tel. No.: 291-7002
Date Written: 5-10-82	Date Written: 5-12-82
Approved By: A. Supervisor	Date: 5-14-82

Date Sent To CPB or Plant:

Assumes Completion of Last Order Written for this Group

Order Number: 332 47 275 Control Number: 247275 Due Date: 5-31-82

Orig. DOT: 5-28-82 Orig. DOB: 6-4-82

Resch. DOT: Resch. DOB:

TAB

TA Clean/Unclean Reason Code: ACB DOQ ZPL DOD

Missed > DOQ DOB

XMT: B/P ☐ ML ☐ Non-Mech ☐

** Report Completion of Individual Items as Reflected Above Progressively As They Are Completed. When You Complete Order in its Entirety, Report As "All".

Distribution: Repro

Tel. Nos. For Control or Reporting Office Use Only

Completion ATAB - 291-7003

Contact:

Reschedule ATAB - 291-7004

Completion Report

Actual Completion Date:

CPB Module Return Code: Date to Repro:

Date to Plant:

Order	Reschedule Notice		Completion Notice			Digits Out	Canc.	Held	Decline Date
☒						5			

Assigning Split TBs
Exhibit 12A

Pacific Telephone
Nevada Bell

TRUNK RECORD

P 3337-ATAB (1-75)
(F 1295)

TGID No./CGSN	Control Office	Page	of
N7750-059	SNJS CA 14 X1	1	7

Location "A"	Pulse	Location "Z"	Tfc.-Cls.	Ofc.-Cls.	Use	Modifier	Order Number
SNJS CA14 26K	M-	SNJS CA 13 22C	AF	52	00	LAMA	A4D4-424620

H M L	Office Trunk No.	On Off Act.	TL FR	TL SL	RELAY RACK AISLE	RELAY RACK FR	RELAY RACK CKT	MDF LOC	AMA RCDR CII	OSL FR	OSL TS	OSL S-V	Dsn. Num.
H	1140		14	A11	13	189	12	M177	8 2-4	127	13	1-8	
	1141		18	A21	13	189	13		3-4		14	1-9	
	1142		01	A31	13	189	14		4-4		15	2-0	
	1143		01	A41	13	189	15		5-4		16	2-1	
	1144		01	A51	13	189	16		6-4		17	2-2	
	1145		01	A61	13	189	17		4-5		18	2-3	
	1146		01	A71	13	189	18		5-5		19	2-4	
	1147		03	A81	13	189	19		6-5		20	2-5	
	1148		03	A91	13	189	20		7-5		21	2-6	
↓	1149		04	A21	13	189	21	↓	8-5	↓	22	3-0	

Trunk Group Common Assign	On Off Act.	SDR GRP	TB	TG	FTC → INITIAL ACCESS					SDR GRP	TB	TG	FTC → LAST ACCESS					INITIAL ACCESS →			
		MF5	2	08	166	167	168	121	122	MF5	3	12	191	178	187	190	186	132	133	134	135

TB2 - 33 TRUNKS TB3 - 29 TRUNKS TB2 R.A. TO TB3

Exhibit 12B

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: RVSD CA01 68H	Trunk Group: CLTN CA01 78C	Due Date: 9-7-82	Page 1 Of 1
Issued By: D.O. CLERK	TGID: T9400-006	Completed By:	Return To: 14709 VANOWEN
Tel. No.: 786-0143	CGSN: AB 504066	Tel. No.:	RM 203
Date Issued: 7-7-82	Order No.: SH50-713594	Comp. Date:	VAN NUYS

Item	Act	Meas. Type/ Pchg.	Card No.	Pos. No.	DCD	FTC (RR)	Dist. Frame				TUR Assignments							Remarks
							Vert	Blk	Row	Pchg.	Aisle, Frame, Ckt.	TUR FR	S	C	H	V		
1	ON	PC	2	10	1236	166	8	D	36	1								IPC 06 EVEN MKR
2		↓	↓	↓	1237	167	8	D	37	2								↓ ODD MKR
3		OVF	3	12	1238	166	7	D	14	4								
4		↓	↓	↓	↓	167	7	D	14	5								

EADAS Office — IPC Assignment (61 to 100 Trunks)
Exhibit 13

F 829 (3-69)
T.I. 421

TUR & TRAFFIC REGISTER ORDER

TRK GROUP or EQUIP: SNJS CA14 26K → SNJS CA13 22C
NOTES:

ID NUMBER: N7750-059
ORDER NO: A4D4-134868
PAGE 1 OF PAGES 5
ISSUED BY: R. BUSH
DATE ISSUED: 5-5-82
DUE DATE—ON OR BEFORE
COORDINATE WITH
RESCHED DATE
REASON
DATE ORDER & CONTINUITY TEST COMPLETED
COMPLETED BY
RETURN TO: NET ADMIN.

ITEM	ACTION	TUR-FR F	S	C	H	V	RG NO	DGU	REG-TS BK	REG-TS PCHG	PJ CAB	PJ NO.	REGISTER CAB	REGISTER NO.	TYPE	ITEM TO BE MEASURED	QTY	ASSIGNMENT	TUR-DF CL	TS	R	P
1															PC	TRKS 1-62 EVEN MKR	62	IPC-06 RR/66,167,168,121,122,132,134,135				
2															PC	TRKS 1-62 ODD MKR	62	↓				
3																						
4																						
5																						
6																						
7																						
8																						
9															DFL	TRKS 1-62	62	RR 191,178,187,190,186				

TB2 - 33 TRKS
TB3 - 29 TRKS

(TB2 ROUTE ADVANCES TO TB3)

Non-EADAS Office — IPC Assignments (61 to 100 Trunks)
Exhibit 14

Pacific Telephone
Nevada Bell

LF 4771 (1-82)

EADAS – Peg Count, Overflow And TUR Assignments

Office: SHOK CA01 98H	Trunk Group: SHOK CA01 20T	Due Date: 9-7-82	Page 1 Of 1
Issued By: D.O. CLERK	TGID: H9468165	Completed By:	Return To: 14709 VANOWEN
Tel. No.: 786-0143	CGSN: ABOS1470	Tel. No.:	RM 203
Date Issued: 7-7-82	Order No.: SH3M-6706 51 A	Comp. Date:	VAN NUYS

Item	Act	Meas. Type/ Pchg.	Card No.	Pos. No.	DCD	FTC (RR)	Dist. Frame				TUR Assignments							Remarks
							Vert	Blk	Row	Pchg.	Aisle, Frame, Ckt.	TUR						
												FR	S	C	H	V	
1	ON	PC	2	16		131	13	D	14	1								
2	↓	↓	↓	↓		136	↓	↓	14	2								
3	↓	OVF	1	12		132	16	B	26	1								

EADAS Office — Trunk Group with Split TBs
Exhibit 15

Pacific Telephone
Nevada Bell

P 3334-ATAB (1-75)
(F 1293)

TRUNK ORDER

Order Control TAB A [X] Z [ ]

Assoc. Order LL [ ] IC [ ] ESSO [ ] SSO [ ] PNB [ ] IR [ ] SSN [ ] CTX [ ]

Order Class. N Wkg. Days 45

T.O. Page 1 of Pages 2

Ckt. Prov. Bur. SF [ ] LA [X]

Location "A"	Pulse	Location "Z"	TFC-CLS	OFC-CLS	Use	Modifier
SHOK CA01 98H	M-	SHOK CA01 20T	AF	50	TO	GRPB

Order Number: SH3M-670651A CPB Iss Num: 02

TGID No. H94681165
CGSN No. AB051470

Control Office: SHOK CA 01 X2
PAC Reporting Office:
Project Coordination Office:

Control Number: 670651 Cntl. Item:

Due/Date (Comp. on or before): 7-1-82

Reschedule Date: Reason:

Plant Test Date: 6-28-82

TA Code: H3M Prepared By: M. MORE

Tel. No.: 213-578-0000

Approved By: R. Princecheck Date to TAB: 3-18-82

Trunk Quantity: Before 55 After 68

No. of Trks. Affected: Add (A) 13 Disc (D) Rearr (R) 20

Description of Work and Coordinate with Information:
ADD 13 TRUNKS TO MEET EXPECTED GROWTH
REARRANGE TO SPLIT SENDER GROUP. USE SNDR GRP
101 & 108 AND TRUNK ALLOTTER.

ADR	Trunk Affected	** Cntl. Item	Manual Asgnmts. Ofc-A	Manual Asgnmts. Ofc-Z	Mech. Asgnmts. (CLR/CLO)
A	34	01	X	X	—
	40	02			
	47	04			
	54	05			
	56	06			
	57	07			
	64	09			
	65	10			
	66	11			
	67	12			
	68	13			
	69	14			
	70	15			

W/W XH3M-692770

Assoc. Ord. No.:

Design No.	Trunk Numbers	Location "A" Equip. or Assembly Code	Location "Z" Equip. or Assembly Code
0103	40, 47, 67, 68	1C5	A605
0104	34, 54, 56, 57, 64-66, 69, 70	2C5	A605

Alt. Route Before Loc'n "A" — Loc'n "Z" —

Alt. Route After Loc'n "A" — Loc'n "Z" —

Routing Chg. Yes [ ] No [✓]

Notes: NON-MECH

	"A" TAB	"Z" TAB
TR Pages Affected	4-7	4-7
TAB Code	LA6	LFL
Prepared By	JUDY	DEBORAH
Tel. No.	621-8001	621-8002
Date Written	4-11-82	4-19-82
Approved By / Date	P.O.R. 4/11/82	B.B. 4/19/82

Date Sent To CPB or Plant:

Assumes Completion of Last Order Written for this Group
Order Number: H52-747638 Control Number: — Due Date: 11-6-82

Tel. Nos. For Control or Reporting Office Use Only
Completion: 621-5981
Contact:
Reschedule:

Completion Report
Actual Completion Date:

CPB Module Return Code: LA6 Date to Repro: 4-20-82

Date to Plant:

Orig. DOT: Orig. DOB: 6-6-82
Resch. DOT: Resch. DOB:

TAB
TA: Clean/Unclean Reason Code
ACP: DOT DOB
ZPL: DD
Missed >

** Report Completion of Individual Items as Reflected Above Progressively As They Are Completed. When You Complete Order in its Entirety, Report As "All".

Distribution: 1HT05, 4H118, 1GS59, 1HT00, 1HT14, 1HE10, 1HT12

Repro: 10

XMT: B/P [ ] ML [ ] Non-Mech [ ]

Order		Reschedule Notice		Completion Notice			Digits Out	Canc	Held	Decline Date
							7			

Assigning Allotter
Exhibit 16A

Pacific Telephone
Nevada Bell

TRUNK RECORD

P 3337-ATAB (1-75)
(F 1295)

TGID No./CGSN	Control Office	Page
H9468165	SHØK CA 01 X2	1 of 7

Location "A"	Pulse	Location "Z"	Tfc.-Cls.	Ofc.-Cls.	Use	Modifier	Order Number
SHOK CA 01 98H	M-	SHOK CA 01 20T	AF	50	TO	GRP B	SH3M·670651A

Office			LOC "A"														LOC "Z"				
H M L	Trunk No.	On Off Act.	TL		OSL			TRK EQUIP.									RST				Dsn. Num.
			FR	SL	FR	TRK	SV	AISLE	FR	CKT							FR	CCT	TLF	SLF	
H	1		125	A85	112	129	79R	426	14	10							24	16	07	10	
	2		125	A95	112	130	78R	426	14	11							19	06	00	0	
	3		106	A55	103	67	24L	412	15	17			**				19	54	01	1	
	4		106	A95	103	71	25L	412	15	21			**				20	06	01	2	
	5		107	A65	103	164	82L	412	19	16			**				20	58	02	3	
	6		107	A75	103	165	84L	412	19	17			**				20	49	02	3	
	7		108	A85	104	70	25L	412	14	20			**				21	32	03	5	
	8		108	A95	104	71	24L	412	14	21			**				21	10	03	4	
	9		109	A85	104	153	84L	412	18	06			**				21	50	04	5	
	10		110	A45	105	14	27L	413	16	14							25	01	09	11	

* HYCI (520,1) USE TRKS 12, 13, 31 ONLY ON FTC 136 + 44, 45
** SDR GRP 108

Trunk Group Common Assign	On Off Act.	IB	TG	SDR	INITIAL ACCESS FTC	LAST ACCESS →															
		3	12	103/101	131	136	132														

Exhibit 16B

T-2766-5260

LINE	CLASS	REGISTRATION FOR	CONNECTING CIRCUIT LEAD	CONNECTING CIRCUIT NAME OF CIRCUIT	CONN TO T-25692-11 -12 OR -13 FIG NO OR AS SPEC'D	QUANTITY OF JACKS ASSIGNED	QUANTITY OF JACKS CABLED	REMARKS
271	A	DIR BAT JK	S		4	60	60	DIR BAT SUPPLY
	B	CONT BAT JK	S1		2	60	60	CONT BAT SUP (S1)
	C							
	D							
275	E	LC IDENT ALL TRKS BUSY	PB		35			
	F							
	G	CLOCK REGISTER	P	CLOCK	6	2	2	
	H	LINE LINK ORIG	LCB	LL & CONN	1			
	J	ORIG REG TT	PCO	DT MKR	1	4	4	
280	K	TOTAL INC PC	TIP	CPL MKR	1	8	8	
	L	TOTAL ORIG PC OP	TOR		1A	8	8	CONN TO MAG CTR UNITS TRC-01
	M	ORIG REG TT	PCMF	DT MKR	1			
	N	INTRA OFFICE TRK GRP, OGT, GRP,	PC	MKR	24(VIA 26)	75	75	1-60 TRK IN GRP
	P	INTER-MKR GRP TRK GRP, COMB TONE	IPC		23(VIA 22)	16	16	61-100 TRK IN GRP
285	Q	TRK GRP & COMMON OFL TRK GRP	IPC		20(VIA 22)	16	16	101-UP TRK IN GRP
	R	INC TRK GRP TERM CALLS	PC(LOC)	TRK	35			
	S	INC TRK GRP T[illegible] CALLS	PC(THRU)					

Central Office Drawing — Office Without TUR-DF or TRDF
Exhibit 17A

T-OP08-5260

WIRING LIST OF JACK FIELDS SEE TABLES A, B, C, D FOR ASSIGNMENT

LINE	CLASS	REGISTRATION FOR	CONNECTING CIRCUIT LEAD	CONNECTING CIRCUIT NAME OF CIRCUIT	CONN FIG ON TRAF REG CKT	QUANTITY OF JACKS ASSIGNED	QUANTITY OF JACKS CABLED	REMARKS
176	A	——			4			-DIR BAT SUPPLY
177	B	——			2			-CONT BAT SUP (S1)
178	C	——			2			(S2)
179	D	——						
180	E	——						
181	F							
182	G	CLOCK REGISTER	M	CLOCK	30			
183	H	LL ORIG	LCB	LL CONN	1			
184	J	CAMA IMG TRK GR, CAMA JTR GR, JTR GR,	PC	MKR	24			1-60 TRK IN GR SEE NOTE 11
185	K	IMG TRK GR, IAO TRK GR, OGT GR,	IPC		23			61-100 TRK IN GR SEE NOTE 11
186	L	COME TONE TRK GR & COM OVFL TRK GR	IPC		20			101-UP TRK IN GR
187	M	INC TRK GR TERM & TOM OR THRU CALLS	SEE RMK	INC TRK	35			PC OR PCL FOR LOCAL PC OR PCT FOR TOM OR THRU
188	N	AMA RCDR SEIZURE	TPC	RCDR	1	21	21	
189	P	ABANDONED PARTIAL DIAL	APD	ORIG REG	1	1	1	
190	Q	ORIG CLASS OF SERVICE	S	MKR	1	100	100	
	R	OG SOR CR	OSG			90	90	

Central Office Drawing — Office With TUR-DF
Exhibit 17B

WIRING LIST OF LEADS CABLED TO TRDF - 00 SEE T-0H16-157 FOR ASSIGNMENTS

LINE	CLASS	REGISTRATION FOR	CONNECTING CIRCUIT LEAD	CONNECTING CIRCUIT NAME OF CIRCUIT	CONN. FIG ON TRAF. REG. CKT.	QUANTITY OF LEADS REQUIRED	QUANTITY OF LEADS CABLED TO TRDF-00	VTROF LOCATION TERM STRIP	VTROF LOCATION ROW	VTROF LOCATION PCHG
176	A	INTERFACE UNIT	DI-32			32	32	4 C	12-16/17	1-6/1-2
177	B	DELAY UNIT	DI-32			32	32	4 C	17/18-22	3-4/1-6
178	C									
179	D									
180	E									
181	F									
182	G	CLK REG	M	CLK	39	1/PC	2	10 C	50	1-6
183	H	LL ORIG	LCB	LL CONN	1	1/LL	60	10 D	1-10	1-6
184	J	CAMA IMG TRK GR, CAMA JTR GR, JTR GR, IMG TRK GR,	PC	MKR	26	1/RTE REL	200	10 A	1-17	1-6
185	K	IAO TRK GR, OGT GR, COMB TONE TRK GR & COM OVFL	IPC		22	10/MKR	80	10A,12A	35-50/35-42	1-6
186	L	TRK GR								
187	M									
188	N	RECORDER SEIZURE	TPC	RCD UNIT	1	1/RCD UNIT	12	10 C	45, 46, 47	1-6
189	P/PI	ABANDONED PARTIAL DIAL	APD/APPB	ORIG REG	1	1/OR GR	3	10 C	30	1-6
190	Q	ORIG CLASS OF SERVICE	S	MKR	1	10/MKR	80	10B/12A	1-16/43-50	1-6
	R	OG SOR CR			1	12 MKR	96	10B/12B	17-32/1-8	1-6

Central Office Drawing — Office With TRDF
Exhibit 17C

Pacific Telephone
Nevada Bell

P 3169-ATAB (1-75)

CROSSBAR SYSTEM NO. 5
CROSS-CONNECTIONS
PREROUTE RELAY AND ALLOTTERS

Office SNJS CA 14 26K MKR Group 100

Order C 392907 Effective Date 4-29-82 Issue 3 Issue Date 4-13-82

Pre-Route Relay No.	Cross-Connect RP Pchg. To	PR Pchg. To	PC Pchg. To	Reference
00	~~828,829~~	RC 46	SC 27	MMU-CNCR CA01OOT
01	837,839	RC 46	SC 28	TOLL-CNCR CA01OOT
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Pre-Route Relay No.	Cross-Connect RP Pchg. To	PR Pchg. To	PC Pchg. To	Reference
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				

Trk. & Sdr. Allotting Relays

AL-0		AL-1		AL-2		AL-3	
Gen. Supply		Gen. Supply		Gen. Supply		Gen. Supply	
AL-15	AL-26	AL-16	AL-27	AL-17	AL-28	AL-18	AL-
AL-11	AL-22	AL-12	AL-23	AL-13	AL-24	AL-14	AL-
RCL-0	265	RCL-1	RG-05	RCL-2	RG-06	RCL-3	
RL-0	RG-04	RL-1	RG 05	RL-2	RG 06	RL-3	
LA-0	RC-71	LA-1	RC 51	LA-2	RC 64	LA-3	
LB-0	RC-70	LB-1	RC 53	LB-2	RC-25	LB-3	
RAL-0	RAG-19	RAL-1	RAG-39	RAL-2	RAG-22	RAL-3	
SAL-0	25G	SAL-1	25G	SAL-2	25G	SAL-3	

* Located on trk. grp. allotter term. strip in TR Bay.

Individual Peg Count Relays IP & IR Cross-Connect

IPC-No	IP-To	IR-To	Reference	IPC-No	IP-To	IR-To	Reference
00	SEE SC24	RC 71	IAO FLAT	05	SEE SC-30	RC 95	MLPS CA 11 26C
01	SC25	RC 51	IMG FLAT	06	SEE SC-26	RC 52	SNJS CA 13 22C
02	SC25	RC 64	IMG MSG	07			
03				08			
04				09			

Exhibit 18

MECHANIZED TRUNK ORDER

DATE 10-01-81

SENT TO PRINTER P3270123

INTRA REGIONAL

LOCATION A	PS	LOCATION Z	TFC-CLS	OFC-CLS	USE	MODIFIER	CONTROL TAB
CNPKCA0134J	M-	NHLICA0147T	PH	54	DD	_____	LAG

TGID	CGSN	ORDER NUMBER	UNDERTKG	CONTROL NO
H2294709	AB044231	ALA6.980710	_____	980710

ORD-ACTION:CRG /__ /__ ORD-CLS N

TRK QUANTITY	TRUNK NUMBERS	ITEMS	RESCHEDULE DATES	DATES
WKG: 000	1-6	01-06	__-__-__	DOT __-__-__
PDA: _____	_____	_____	__ /__-__-__	DOB 12-01-81
PDD: _____	_____	_____	__ /__-__-__	DUE 06-01-82
TOT: 006	_____	_____		PTD 05-28-82
			ACTUAL COMPLETION	DATE __-__-__

CW-NOTE: REARR TRK GRP OFF T34, TG05, SDR 0 ONTB1, TG10, SDR2 TO PROV SP EQPT_____
W/W XLDA-982037

CONTROL OFC	PAC RPT OFC	PROJ COOR OFC	PROJECT	D/O	INSEP	RETURN CODE
CNPKCA0170	_____	_____	_____	5	130	LA6

LAST ORD DUE A/O _____ R/EST _____

ALA9-
994500 1 07-03-79

		LOC A	LOC Z
	TR PGS AFFECTED :	#1	_____
TELEPHONE NUMBER FOR:	TAP CODE :	LA6	_____
CONTACT/RESCHEDULE	PREPARED BY :	P. DIXON	_____
213 - 975-5981	TELEPHONE NO :	975-5981	_____
COMPLETION	DATE WRITTEN :	10-2-81	_____
213 - 956-5070	APPROVED BY :	pd 10-2-81	_____

MANUAL DIST: _____

TO REPRO 10-9-81

Exhibit 19