

EQUIPMENT AND CROSS-CONNECTION RECORDS
TOLL TERMINAL EQUIPMENT

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1. GENERAL

1.01 This section provides record forms for toll terminal equipment used in toll circuits and describes their use for assignment, cross connection, and maintenance purposes. The forms are designed to serve not only as permanent central office maintenance records but also as the means for displaying the cross-connection information required in connection with installation activities.

1.02 This section is reissued to provide revised and additional forms. Since this is a general revision the arrows ordinarily used to indicate changes have been omitted.

1.03 The forms described in Parts 3 and 4 are printed on 5-in. by 8-in. buff cards. Forms E-2307, E-2308, and E-4276 are printed on letter size sheets. Forms E-2307A and E-2308A are printed on 5-in. by 8-in. buff cards.

1.04 Entries on the forms shall be made in the following manner:

- (a) Any entry subject to change should be made with a pencil of HB grade.
- (b) Permanent portions of the records should be made with Bell System ink, India ink, or be typewritten.

1.05 Each of the forms described in Parts 2 to 5, inclusive, is illustrated in reduced size.

1.06 Provision is made for recording signal path assignments either on Form E-4274 or the rear side of Forms E-4258 to E-4273.

2. RECORD OF CENTRAL OFFICE EQUIPMENT

(A) Form E-2307 or Form E-2307A - Record of Central Office Equipment (Other than Repeating Coil Groups)

2.01 Form E-2307 or Form E-2307A provides a record for all types of equipment or circuits, other than repeating coil groups, installed in the office and is used in the following manner.

2.02 Sheet Number: This space is provided on both sides of the form for the sheet number where the particular type of equipment requires more than one sheet.

2.03 Equipment: In this space enter the name of the equipment to be recorded on this form such as telephone repeaters, composite sets, signaling units, primary and secondary board jack circuits, etc.

2.04 Office: This space is provided for use where the record of central office equipment for several offices is maintained at a centralized point. It may also be used to indicate a separate sheet which records equipment rented to or from another company, or owned by another company.

2.05 Type: Enter in this space the specific type of equipment for which this record is provided, such as 22A1, 44A1, V-1, V-3, etc. A separate form should be used for each type of equipment. Thus, under telephone repeaters, separate forms would be used for recording 22A1 regulated or nonregulated, associated or non-associated repeaters, etc. Such a separation by types of equipment facilitates assignment of spare equipment.

2.06 Distributing Frame - Strip - Section: Enter in these spaces the frame number, terminal strip and section of frame on which the equipment of the type noted on this form is terminated on the distributing frame.

2.07 Drawing and Figure Numbers: Record in this space the drawing and figure numbers pertaining to the particular equipment items recorded on the form. For example, where several groups of the same kind and type of equipment are installed in an office under different drawings or figure numbers, the entry in this space should indicate the number of equipment units wired by each drawing and figure.

2.08 Rack or Bay Location: Record in this space the rack or bay number in which this particular equipment is located. Where several equipment units are installed in one rack or bay, the entry need only be made for the first unit of equipment in that rack or bay. The remaining items may be dittoed or indicated by a line.

2.09 Equipment Number: Enter in this space the office number stenciled on the equipment unit, or otherwise indicated by stenciling or marking. The entry in these spaces should include not only the units of equipment installed, but also the units of equipment for which wiring is provided.

2.10 Circuit - In Use: This space is provided to indicate usage of the equipment. Make a check mark in this space for equipment which

is assigned for regular use in a circuit. Indicate by an "S" equipment that has been assigned for use as spare equipment for patching purposes. Enter a "W" for the units which are wired but not equipped. Any unit of equipment for which neither a "W", "S", nor a check mark appears is available for assignment purposes.

Note: If for any reason it is found desirable to show the toll circuit associated with the items of equipment, the circuit designation may be shown instead of a check mark. However, it is thought that in most cases the check mark will be preferred because when it is used it eliminates the necessity of correcting these records when the circuit number or name is changed or when circuit rearrangements are made involving the use of the same equipment.

(B) Form E-2308 or Form E-2308A - Record of Repeating Coil Groups

2.11 Form E-2308 or Form E-2308A is provided for use in assigning repeating coil groups installed in an office. This form may also be used in assigning repeating coil hybrids. The general headings on this form are the same as on Form E-2307 and the same explanations will cover the use of the other headings on both forms. On this form, however, four columns have been provided for designating the equipment in use, since, although it is customary to number repeating coils by groups, the assignment is usually made by individual coil. A space, therefore, has been provided for indicating the usage of each coil in each group and the same symbols used to indicate the usage of equipment, such as "W", "S", or check mark, will apply on this form as used on Form E-2307. The designations of these columns are in accordance with both the former and present method of designating repeating coil groups. The columns A2 and B2 may be disregarded when the form is used for assigning repeating coil hybrids.

2.12 The information displayed on these forms, other than shown in the "In Use - Circuit" column is obtained from the following records and drawings:

- (a) Master wiring list (T- job number - 000).
- (b) Relay rack wiring list.
- (c) Relay rack equipment drawings.
- (d) Circuit T- drawings.
- (e) Distributing frame T- drawings.

3. RECORD OF DISTRIBUTING FRAME TERMINATIONS

(A) Form E-4257

3.01 Form E-4257 is provided for recording the terminal location of all equipment and circuits on the distributing frames. The information pertinent to designations and wiring in addition to the terminal location shall be shown on these forms.

3.02 This record shall be located at the distributing frame in order that maximum use is made of the form by the frame man.

3.03 A form shall be provided for each type of equipment or each group of equipment having like distributing frame terminations.

3.04 The following is an explanation of the column headings on the form.

3.05 Equipment: Enter in this space the name of the equipment which is terminated on the distributing frame terminal strip.

3.06 Frame: Enter in this space the name and number of the frame on which the terminal strip is installed, such as toll test IDF, toll switchboard IDF, etc.

3.07 Drawing and Figure Numbers: Enter in this space the drawing and figure numbers which cover the terminated equipment.

3.08 Circuits: Enter in this column the office numbering of the equipment whose terminals appear on each terminal strip.

3.09 Strip and Section: Enter in these columns the distributing frame location of each terminal strip associated with the terminated equipment. The locations of terminal strips on the distributing frames are indicated by both an alphabetical and numerical designation. This designation appears on the terminal strips. The alphabetical part of the designation denotes the position from the bottom to the top of the frame in alphabetical order starting with "A" at the bottom of the frame (except that "I" and "O" are not used). The numerical part of the designation denotes the horizontal position in the direction of growth. When a terminal strip is on the vertical side, the numerical part of the designation precedes the alphabetical part and when the terminal strip is on the horizontal side, the alphabetical part of the designation precedes the numerical part. Thus C10 would indicate a terminal strip on the horizontal side, being the third from

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the bottom and tenth from the nongrowing end, while 10C would indicate the terminal strip in a similar position on the vertical side.

3.10 Relay Rack: Enter in this column, which is divided into two parts, "line" and "bay," the line-up of frames and the relay rack bay or bays on which the equipment is mounted.

3.11 Type: Enter in this space the specific type of equipment terminated.

3.12 On the right-hand side of the form, space is provided to show a sketch of the terminal appearance and designation.

4. TOLL TERMINAL EQUIPMENT ASSIGNMENT RECORDS

4.01 These record forms are provided for recording the individual toll terminal equipment units assigned to a toll circuit in the central office. The completed form presents a block diagram of the toll circuit equipment components.

4.02 One of these record forms shall be made up for each toll message circuit. After the equipment unit assignment has been made on the record form, it may be used by the frame man for cross-connection work, after which it will be retained for reference in maintenance work.

Note: When it is desired to provide a "point-to-point" cross-connection list, the information contained on this record form may be readily transcribed to the cross-connection list, Form E-4276.

4.03 Enter in the equipment blocks on the record form, the equipment unit, type, and number as shown on Form E-2307 or Form E-2308.

4.04 Enter the distributing frame terminal strip and section in the small blocks adjacent to the equipment blocks. This information is obtained from Form E-4257. Penciled lines are then drawn between these small blocks to indicate the necessary cross connections. A completed form is illustrated on Page 19.

4.05 A detailed description of equipment blocks is given for Form E-4258. The equipment blocks for the other equipment record Forms E-4259 to E-4275 inclusive, are essentially like those given in the detailed description of Form E-4258.

Note: The detailed description of Forms E-4258 to E-4273 apply to the front of the forms only. The information covered on Form E-4274 is also displayed on the rear of these forms for use in those offices that do not require a separate signal path record.

(A) Form E-4258 - Equipment Assigned to Ringdown, 2-Wire Terminal Toll Circuit, Using Repeating Coil Hybrids

4.06 Form E-4258 is provided for the assignment of equipment units for a ringdown, 2-wire terminal toll circuit using line repeating coil hybrids, 24-, 44-, or V-type telephone repeaters and repeating coil hybrids or a 4-wire terminating set on the drop side of the repeater. This form may be used for a toll circuit assigned to cable or open wire facilities.

4.07 Form E-4258 is used in the following manner.

4.08 CKT: Enter the toll circuit name and number as determined from the toll circuit layout card.

4.09 CO and ITEM: Enter the toll circuit layout order and item number as determined from the toll circuit layout card.

4.10 PR, CA, and CU: Enter in the appropriate space the pair number, name of cable or open wire line, and the circuit unit as determined from the toll circuit layout card.

4.11 PR and CKT: Enter in these spaces the pair number and circuit name of the associated toll circuits in the same phantom group.

4.12 PB: Enter in this space the primary board line number, panel number, and jack circuit number on which the toll circuit appears.

4.13 CX: Enter in this space the office number and type of composite set.

4.14 V-REPT: Enter in this space the odd amplifier number and the required gain of the amplifier as determined from the toll circuit layout card.

4.15 4 REPT: Enter in this space the 44-type telephone repeater type, office number, and the 208M transformer step to give the required gain as determined from the toll circuit layout card.

4.16 173 COIL: Enter in these spaces the type and number of the line repeating coil hybrid.

4.17 24A REP: Enter in these spaces the 24-type telephone repeater number and the type of filter or filters to be used as determined from the toll circuit layout card.

4.18 4W TERM: Enter in these spaces the 4-wire terminating set type and number. Space is provided for recording the transmitting and

receiving pad db value. Where the filter is associated with the 4-wire terminating set, record the type of filter in the space provided.

4.19 173 COIL: Enter in these spaces the type and number of the repeating coil hybrid when used on the drop side of the repeater.

4.20 PATCH BD: Enter in this space the patch board or secondary board line and circuit jack number.

4.21 NET: Enter in this space the line balancing network type and number.

4.22 FILTER: Enter in this space the type and number of the disassociated filter.

4.23 V-REPT: Enter in this space the even amplifier number and the required gain of the amplifier as determined from the toll circuit layout card.

4.24 4 REPT: Enter in this space the 44-type telephone repeater type, office number, and the 208M transformer step to give the required gain as determined from the toll circuit layout card.

4.25 RGR NO: Enter in this space the disassociated ringer type and number.

4.26 2W TERM SET: Enter in this space the 2-wire terminating set number.

4.27 AUX. IT: Enter in this space the auxiliary intertoll or switch pad circuit number and the db pad value as determined from the toll circuit layout card.

4.28 Two blank blocks are provided for entering equipment units not shown on the form.

(B) Form E-4259 - Equipment Assigned to Ringdown, 2-Wire Terminal Toll Circuit, Using Repeating Coils

4.29 Form E-4259 is provided for the assignment of equipment units for a ringdown, 2-wire terminal toll circuit using line repeating coils and 22-type telephone repeaters.

(C) Form E-4260 - Equipment Assigned to Dial, 2-Wire Terminal Toll Circuit, Using Repeating Coil Hybrids

4.30 Form E-4260 is provided for the assignment of equipment units for a dial, 2-wire terminal toll circuit using line repeating coil hybrid, V-type or 44-type telephone repeater; single-frequency or composite signaling unit;

6-wire circuit patch bay or 4-wire patch jack appearance; and terminating in a toll switchboard, crossbar tandem, No. 5 crossbar, step-by-step intertoll, or No. 4-type toll switching system.

4.31 Blocks are provided for recording the following dial circuit information.

4.32 SF (TR FREQ): Enter in this space the single-frequency signaling unit type, number, and transmitting frequency.

4.33 SF (MF or DIAL): Enter in this space the single-frequency signaling unit number, receiving frequency and check MF or DIAL as determined by the type of pulsing employed on the toll circuit.

4.34 SF or SP: Enter in this space the single-frequency signaling unit number or the signal path unit number when using composite signaling. The composite signaling unit and facilities will be displayed on Form E-4274.

4.35 BLOCKING NET: Enter in this space the blocking network number and the frequency of the network to be used.

4.36 APB: Enter in this space the assignment patch bay jack circuit number.

4.37 17C TBD: Enter in this space the No. 17C testboard jack circuit number.

4.38 The blocks located in the middle position of the bottom of the form are provided for entering assignment of circuit patch bay jack circuit numbers and "P" pad value when switching is on a 4-wire basis. When switching is on a 2-wire basis and a patch jack circuit is used, enter the jack circuit number in the blocks designated TR LINE and SIG LINE E & M, disregarding the other blocks.

4.39 Blank blocks are provided for entering equipment units not shown on the form.

(D) Form E-4261 - Equipment Assigned to Dial, 2-Wire Terminal Toll Circuit, Using Repeating Coils

4.40 Form E-4261 is provided for the assignment of equipment units for a dial, 2-wire terminal toll circuit using line repeating coils, V-type, 44-type or 22-type telephone repeaters, single-frequency or composite signaling unit; 6-wire circuit patch bay or 4-wire patch jack appearance and terminating in a toll switchboard, crossbar tandem, No. 5 crossbar, step-by-step intertoll, or No. 4 type toll switching system.

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(E) Form E-4262 - Equipment Assigned to Ringdown, 4-Wire Terminal Toll Circuit on Carrier Facilities

4.41 Form E-4262 is provided for the assignment of equipment units for a ringdown, 4-wire terminal toll circuit assigned to carrier facilities.

4.42 A detailed description of equipment blocks not previously described follows.

4.43 SYSTEM: Enter in this space the carrier system name and number and the channel number.

4.44 ES: Enter in this space the type and number of the even side of the echo suppressor. The sensitivity and release time, as determined from the toll circuit layout card, shall be entered in the spaces provided for this information.

4.45 ES: Enter in this space the type and number of the odd side of the echo suppressor. The sensitivity and release time, as determined from the toll circuit layout card, shall be entered in the spaces provided for this information.

4.46 EB TERM: Enter in these spaces the EB (emergency band) terminal and bay number. Separate blocks are provided for the transmitting and receiving terminals.

4.47 Blank blocks are provided for entering equipment units not shown on the form.

(F) Form E-4263 - Equipment Assigned to Ringdown, 4-Wire Terminal Toll Circuit on Cable Facilities

4.48 Form E-4263 is provided for the assignment of equipment units for a ringdown, 4-wire terminal toll circuit assigned to cable facilities and using line repeating coils, V-type, 44-type, or 24-type telephone repeaters; 4-wire terminating set, or repeating coil hybrid on the drop side of the repeater; 2- or 4-wire type of ringer; and an echo suppressor.

(G) Form E-4264 - Equipment Assigned to Dial, 4-Wire Terminal Toll Circuit on Carrier Facilities

4.49 Form E-4264 is provided for the assignment of equipment units for a dial, 4-wire terminal toll circuit assigned to carrier facilities and using single-frequency or composite

signaling units; 24-type telephone repeater, 4-wire terminating set, or repeating coil hybrid; 6-wire circuit patch bay or 4-wire patch jack appearance; and terminating in a toll switchboard, crossbar tandem, No. 5 crossbar, step-by-step intertoll, or No. 4 type toll switching system.

(H) Form E-4265 - Equipment Assigned to Dial, 4-Wire Terminal Toll Circuit on Cable Facilities Using 4-Wire Terminating Set

4.50 Form E-4265 is provided for the assignment of equipment units for a dial, 4-wire terminal toll circuit assigned to cable facilities using a 4-wire terminating set, single-frequency or composite signaling unit; V-type or 44-type telephone repeater; 6-wire circuit patch bay or 4-wire patch jack appearance; and terminating in a toll switchboard, crossbar tandem, No. 5 crossbar, step-by-step intertoll, or No. 4 type toll switching system.

(I) Form E-4266 - Equipment Assigned to Dial, 4-Wire Terminal Toll Circuit on Cable Facilities Using Repeating Coil Hybrids

4.51 Form E-4266 is provided for the assignment of equipment units for a dial, 4-wire terminal toll circuit assigned to cable facilities using V-type, 44-type, or 24-type telephone repeaters; single-frequency or composite signaling unit; repeating coil hybrid; 6-wire circuit patch bay or 4-wire patch jack appearance; and terminating in a toll switchboard, crossbar tandem, No. 5 crossbar, step-by-step intertoll, or No. 4 type toll switching system.

(J) Form E-4267 - Equipment Assigned to Dial or Ringdown 2-Wire Through Toll Circuit Using Repeating Coils or Repeating Coil Hybrids

4.52 Form E-4267 is provided for the assignment of equipment units for a dial or ringdown 2-wire through toll circuit using line repeating coils or repeating coil hybrids, and 22-type telephone repeaters or V-type telephone repeaters.

(K) Form E-4268 - Equipment Assigned to Dial or Ringdown 4-Wire Through Toll Circuit on Carrier Facilities

4.53 Form E-4268 is provided for the assignment of equipment units for a dial or ringdown 4-wire through toll circuit assigned to carrier facilities.

(L) Form E-4269 - Equipment Assigned to Dial or Ringdown 4-Wire Through Toll Circuit on Cable Facilities

4.54 Form E-4269 is provided for the assignment of equipment units for a dial or ringdown 4-wire through toll circuit assigned to cable facilities and using V-type or 44-type telephone repeaters.

(M) Form E-4270 - Equipment Assigned to Ringdown 4-Wire-2-Wire Through Toll Circuit Using Repeating Coil Hybrids

4.55 Form E-4270 is provided for the assignment of equipment units for a ringdown 4-wire-2-wire through toll circuit using repeating coil hybrid on the 2-wire side, repeating coils on 4-wire side, and V-type or 44-type telephone repeaters.

(N) Form E-4271 - Equipment Assigned to Ringdown 4-Wire-2-Wire Through Toll Circuit Using Repeating Coils

4.56 Form E-4271 is provided for the assignment of equipment units for a ringdown 4-wire-2-wire through toll circuit using repeating coils on both 4-wire and 2-wire sides, 4-wire terminating set, and 44-type or 24-type telephone repeaters.

(O) Form E-4272 - Equipment Assigned to Dial 4-Wire-2-Wire Through Toll Circuit Using Repeating Coil Hybrids

4.57 Form E-4272 is provided for the assignment of equipment units for a dial 4-wire-2-wire through toll circuit using repeating coil hybrid on the 2-wire side and repeating coils on the 4-wire side, V-type or 44-type telephone repeaters; and single-frequency and composite signaling units.

(P) Form E-4273 - Equipment Assigned to Dial 4-Wire-2-Wire Through Toll Circuit Using Repeating Coils

4.58 Form E-4273 is provided for the assignment of equipment units for a dial 4-wire-2-wire through toll circuit using repeating coils on both 4-wire and 2-wire sides, V-type or 44-type telephone repeaters; and single-frequency and composite signaling units.

(Q) Form E-4274 - Equipment Assigned to Dial Signal Path, Terminal or Through Using Composite Signaling

4.59 Form E-4274 is provided for the assignment of equipment units for a dial signal path, terminal or through using composite signaling.

Space is provided for a signal converter and a pulse link repeater.

Note: See Paragraph 4.05 for the display of this information on other forms.

(R) Form E-4275 - Miscellaneous Equipment Assignment

4.60 Form E-4275 is provided for those toll circuits which have not been covered by the other forms in this section. This form can be adopted for assigning equipment on a full period circuit, etc.

5. CROSS-CONNECTION LIST

(A) Form E-4276 - "Point-to-Point" Cross-Connection Information

5.01 Form E-4276 is provided for transmitting cross-connection information in detail form for use by the installer or frame man in those cases where Forms E-4259 to E-4275 will not be used directly in the installation of cross connections.

5.02 The information displayed on the form is obtained from Forms E-4259 to E-4275, inclusive. One form should be used for each group of cross connections to equipment units of the same kind.

5.03 The following is an explanation of the column headings on the form.

5.04 FROM _____ TO _____: Enter in these spaces the equipment units involved in the particular cross connection, i.e., FROM Drop Composite Set TO Line Repeating Coil Hybrid.

5.05 PUNCHINGS, EQ NO., STRIP, SEC: Enter in the appropriate spaces the equipment unit number and distributing frame terminal punching designations, strip, and section number for the equipment unit shown on the FROM line.

5.06 SEC, STRIP, EQ NO., PUNCHINGS: Enter in the appropriate spaces the equipment unit number and distributing frame terminal punching designations, strip, and section number for the equipment unit shown on the TO line.

5.07 FIG: Not used in toll terminal assignment plan.

5.08 Enter in the spaces provided at the bottom of the form the distributing frame numbers and indicate by a check mark, if equipment units are terminated on the horizontal or vertical side of frame.

5.09 Space is provided for the initials of the frame man or installer completing the cross connections and the date completed.

PRINTED IN U.S.A. FORM E-2307
(7-58)

RECORD OF CENTRAL OFFICE EQUIPMENT
(OTHER THAN REPEATING COIL GROUPS)

OFFICE Typical Toll EQUIPMENT Toll line relay SHEET NO. 1
 TYPE Ringdown
 DIST. FRAME Toll STRIP 1 SEC. AK DRAWING AND FIGURE NOS. T-62614-33 Figs 1, 2, 5, 6

| RACK OR BAY LOCATION | EQUIPMENT NO. | CIRCUIT | | RACK OR BAY LOCATION | EQUIPMENT NO. | CIRCUIT | |
|----------------------|---------------|---------|--|----------------------|---------------|---------|--|
| | | IN USE | | | | IN USE | |
| 701.1 | 1 | ✓ | | | | | |
| | 2 | ✓ | | | | | |
| | 3 | S | | | | | |
| | 4 | ✓ | | | | | |
| | 5 | W | | | | | |
| | 6 | | | | | | |
| | 29 | | | | | | |
| 701.2 | 30 | | | | | | |
| | 31 | ✓ | | | | | |
| | 32 | S | | | | | |
| | 33 | W | | | | | |
| | 34 | W | | | | | |
| | 35 | W | | | | | |

Form E-2307 - Record of Central Office Equipment
(Other than Repeating Coil Groups)

PRINTED IN U.S.A. FORM E-2308
(7-58)

RECORD OF REPEATING COIL GROUPS

OFFICE Typical Toll EQUIPMENT Relay 602.3 SHEET NO. 1
 TYPE No. 62-F
 DIST. FRAME Toll STRIP 1613 SEC. K DRAWING AND FIGURE NOS. T-60782-30 Figs 1, 2, 4, 8

| RACK OR BAY LOCATION | EQUIPMENT NO. | IN USE - CIRCUIT | | | | RACK OR BAY LOCATION | EQUIPMENT NO. | IN USE - CIRCUIT | | | |
|----------------------|---------------|------------------|------------|-------------|-------------|----------------------|---------------|------------------|------------|-------------|-------------|
| | | A-1 S-1 | B-1 S-2 | A-2 NS-1 | B-2 NS-2 | | | A-1 S-1 | B-1 S-2 | A-2 NS-1 | B-2 NS-2 |
| 602.3 | 1 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 2 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 3 | ✓ | ✓ | W | W | | | | | | |
| | 4 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 5 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 6 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 26 | ✓ | ✓ | S | S | | | | | | |
| | 27 | ✓ | ✓ | ✓ | ✓ | | | | | | |
| | 28 | S | S | S | S | | | | | | |
| | 29 | W | W | W | W | | | | | | |
| | 30 | W | W | W | W | | | | | | |

Form E-2308 - Record of Repeating Coil Groups

EQUIPMENT _____ FRAME _____

DRAWING AND FIG. NOS.

| CIRCUITS | STRIP | SEC. | RELAY RACK | | TYPE |
|----------|-------|------|------------|-----|------|
| | | | LINE | BAY | |
| | | | | | |

RECORD OF DISTRIBUTING FRAME TERMINATIONS FORM E-4257

Form E-4257 - Record of Distributing Frame Terminations

RD - 2W TERM - 173 HYB

CKT. _____ () _____ C. O. _____ () ITEM _____

| | | |
|--|---|---|
| PR. _____ | CA. _____ | C. U. _____ |
| P. B. _____ PAN. _____ L. _____ JKS. _____ EQ. _____ | PR. _____ CKT. _____ PR. _____ CKT. _____ | W NET _____ TYPE _____ |
| NO. _____ L. _____ TYPE _____ CX. _____ LG. _____ DP _____ | L. 173 COIL _____ NET _____ CX. TYPE _____ SIG. _____ DP IN NO. _____ DP OUT _____ | IN FILTER _____ OUT TYPE _____ |
| V REPEATER _____ L. OUT _____ ODD _____ L. IN _____ GAIN _____ | TR L. 24A _____ 2W L. _____ RC L. W-E _____ E-W _____ 2W W _____ L. FLT. _____ FLT. _____ | L. V REPEATER _____ L. IN EVEN _____ L. OUT GAIN _____ |
| 4 _____ REP. _____ L. OUT _____ NO. _____ L. IN _____ 208-M STEP _____ | L. OUT 4 W TERM. NO. _____ L. IN _____ 2W L. PAD T _____ REC. _____ 2W W _____ L. FLT. _____ NE _____ | L. IN 4 _____ REP. _____ L. OUT NO. _____ 208-M STEP _____ |
| | L. 173 COIL _____ NET _____ CX. TYPE _____ SIG. _____ DP IN NO. _____ DP OUT _____ | L. _____ SG RGR. NO. _____ D TYPE _____ STRAP _____ |
| | L. PATCH BD. _____ SG _____ D SEC. BD. _____ JKS. _____ P _____ | LINE _____ C NET 2W TERM. SET _____ DROP NO. _____ |
| | | L. _____ P AUX. IT. _____ D DB _____ |

EQUIPMENT ASSIGNMENT CARD FORM E-4258

Form E-4258 - Equipment Assigned to Ringdown, 2-Wire Terminal Toll Circuit, Using Repeating Coil Hybrids

SECTION 211-020-001

DIAL - 4W TERM - CABLE - 4W TERM SET

CKT. _____ C. O. _____ ITEM _____

| | | | |
|-----|-----|-------|-----|
| PR. | CA. | C. U. | PR. |
|-----|-----|-------|-----|

| | | |
|-----------------------|----------------------------|----------------------|
| P. B. PAN. L. EQ. | L. COIL COIL L. EQ. | L. P. B. PAN. L. EQ. |
| JMS. | LG. | JMS. |
| NO. L. LG. EQ. | D. TYPE OP TYPE IP D. EQ. | NO. L. LG. EQ. |
| TYPE CX. D. EQ. | L. 4W. TERM. NO. L. IN EQ. | TYPE CX. EQ. |
| V REPEATER L. OUT EQ. | 2W L. PAD T REC. 2W IN EQ. | V REPEATER L. IN EQ. |
| ODD L. IN EQ. | L. IN EQ. | EVEN L. OUT EQ. |
| GAIN L. IN EQ. | OUT NO. FILTER EQ. | GAIN L. OUT EQ. |
| 4 REPEATER L. OUT EQ. | BA OUT BLK. AMP. BN IN EQ. | 4 REPEATER L. IN EQ. |
| NO. L. IN EQ. | A BLK. NET A-1 EQ. | NO. L. OUT EQ. |
| 208-M L. IN EQ. | BA IN EQ. | 208-M L. OUT EQ. |
| SF L. EQ. | E & M SF OR SP EQ. | SF A-1 EQ. |
| TR FREQ. EQ. | | MF OR DIAL L. EQ. |
| TYPE A EQ. | | REC. FREQ. EQ. |
| E. S. SPR OUT EQ. | | E. S. SPR IN EQ. |
| RLS SEC. SPR IN EQ. | | RLS SEC. EQ. |
| SENS EVEN SPR IN EQ. | | ODD SENS EQ. |

| | | | | |
|----------------|-----------|-----------------|-----------|--------|
| PAD | TR. LINE | SIG. LINE E & M | REC. LINE | PAD |
| CKT. PATCH BD. | REC. DROP | SIG. DROP | TR. DROP | BAY JK |

APB 17 C

EQUIPMENT ASSIGNMENT CARD

FORM E-4265

Form E-4265 - Equipment Assigned to Dial, 4-Wire Terminal Toll Circuit on Cable Facilities Using 4-Wire Terminating Set

DIAL - 4W TERM - CABLE - 173 HYB.

CKT. NO. _____ C. O. _____ ITEM _____

| | | | |
|-----|-----|-------|-----|
| PR. | CA. | C. U. | PR. |
|-----|-----|-------|-----|

| | | |
|----------------------|------------------------------|----------------------|
| P. B. PAN. L. EQ. | L. 173 COIL NET EQ. | L. P. B. PAN. L. EQ. |
| JMS. | CX. TYPE SIG. EQ. | JMS. |
| NO. L. LG. EQ. | DP IN NO. DP OUT EQ. | NO. L. LG. EQ. |
| TYPE CX. D. EQ. | L. V REPEATER L. IN EQ. | TYPE CX. EQ. |
| COIL L. EQ. | L. ODD GAIN L. OUT EQ. | COIL L. EQ. |
| TYPE OP D. EQ. | A EVEN GAIN L. OUT EQ. | TYPE IP EQ. |
| 24 A REP. TR. L. EQ. | L. A REP. L. IN EQ. | COIL L. EQ. |
| NO. REC. L. EQ. | L. IN 208-M 208-M L. OUT EQ. | LG. COIL EQ. |
| FLT. RC. EQ. | IN NO. FILTER EQ. | D. TYPE IP EQ. |
| SF L. EQ. | BA OUT BLK. AMP. BN IN EQ. | 2W L. 24 A REP. EQ. |
| TR FREQ. EQ. | A BLK. NET A-1 EQ. | 2W N FLT. EQ. |
| TYPE A EQ. | BA IN EQ. | A-1 SF EQ. |
| E. S. SPR OUT EQ. | E & M SF OR SP EQ. | L. MF OR DIAL EQ. |
| RLS SEC. SPR IN EQ. | | REC. FREQ. EQ. |
| SENS EVEN SPR IN EQ. | | E. S. SPR IN EQ. |
| | | RLS SEC. EQ. |
| | | ODD SENS EQ. |

| | | | | |
|----------------|-----------|-----------------|-----------|--------|
| PAD | TR. LINE | SIG. LINE E & M | REC. LINE | PAD |
| CKT. PATCH BD. | REC. DROP | SIG. DROP | TR. DROP | BAY JK |

17 C

EQUIPMENT ASSIGNMENT CARD

FORM E-4266

Form E-4266 - Equipment Assigned to Dial, 4-Wire Terminal Toll Circuit on Cable Facilities Using Repeating Coil Hybrids

SECTION 211-020-001

DIAL - RD 4W - THRU - CABLE C. O. _____

CKT. NO. _____ () _____ () ITEM _____

| | | | | | | | |
|----------------------------------|-------------------------------|--------------------|-------------------------------|--------------------|-------------------------------|---------------------------------|------------------------------|
| PR. | | CA. | | C. U. | | PR. | |
| P. B. _____ PAN. _____ L. _____ | JKS. _____ EQ. _____ | PR. _____ | CKT. _____ | PR. _____ | PR. _____ | P. B. _____ PAN. _____ L. _____ | JKS. _____ EQ. _____ |
| NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ | NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ | EVEN OUT _____ | E. S. NO. _____ | ODD IN _____ | NO. _____ L. _____ |
| COIL _____ L. _____ | TYPE _____ OP _____ D. _____ | EVEN IN _____ | SENS RLS _____ | SENS RLS _____ | ODD OUT _____ | COIL _____ L. _____ | TYPE _____ IP _____ D. _____ |
| 4 _____ REP. _____ L. _____ | NO. _____ L. _____ | L. OUT _____ | V REPEATER _____ | V REPEATER _____ | L. IN _____ | 4 _____ REP. _____ L. _____ | NO. _____ L. _____ |
| 208-M STEP _____ L. _____ | COIL _____ D. _____ | L. IN _____ | ODD GAIN _____ | EVEN GAIN _____ | L. OUT _____ | 208-M STEP _____ L. _____ | COIL _____ D. _____ |
| COIL _____ L. _____ | TYPE _____ IP _____ D. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | COIL _____ L. _____ | TYPE _____ OP _____ D. _____ |
| NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | PR. _____ | CKT. _____ | PR. _____ | CKT. _____ |
| P. B. _____ PAN. _____ EQ. _____ | JKS. _____ L. _____ | PR. _____ | CKT. _____ | PR. _____ | CKT. _____ | PR. _____ | CKT. _____ |
| PR. | | CA. | | C. U. | | PR. | |

EQUIPMENT ASSIGNMENT RECORD FORM E-4269

Form E-4269 - Equipment Assigned to Dial or Ringdown 4-Wire Through Toll Circuit on Cable Facilities

RD - 4W2W - THRU - 173 HYB C. O. _____

CKT. NO. _____ () _____ () ITEM _____

| | | | | | | | |
|----------------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|-------------------------------|---------------------------------|-------------------------------|
| PR. | | CA. | | C. U. | | PR. | |
| P. B. _____ PAN. _____ L. _____ | JKS. _____ EQ. _____ | PR. _____ | CKT. _____ | PR. _____ | PR. _____ | P. B. _____ PAN. _____ L. _____ | JKS. _____ EQ. _____ |
| NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ | NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ | NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ | NO. _____ L. _____ | TYPE _____ CX. _____ D. _____ |
| COIL _____ L. _____ | TYPE _____ DP _____ D. _____ | COIL _____ L. _____ | TYPE _____ IP _____ D. _____ | COIL _____ L. _____ | TYPE _____ IP _____ D. _____ | COIL _____ L. _____ | TYPE _____ IP _____ D. _____ |
| 4 _____ REP. _____ L. _____ | NO. _____ L. _____ | 4 _____ REP. _____ L. _____ | NO. _____ L. _____ | 4 _____ REP. _____ L. _____ | NO. _____ L. _____ | 4 _____ REP. _____ L. _____ | NO. _____ L. _____ |
| 208-M STEP _____ L. _____ | V REPEATER _____ L. _____ | 208-M STEP _____ L. _____ | V REPEATER _____ L. _____ | 208-M STEP _____ L. _____ | V REPEATER _____ L. _____ | 208-M STEP _____ L. _____ | V REPEATER _____ L. _____ |
| V REPEATER _____ L. _____ | ODD GAIN _____ L. _____ | V REPEATER _____ L. _____ | EVEN GAIN _____ L. _____ | V REPEATER _____ L. _____ | EVEN GAIN _____ L. _____ | V REPEATER _____ L. _____ | EVEN GAIN _____ L. _____ |
| NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ | NO. _____ D. _____ | TYPE _____ CX. _____ L. _____ |
| P. B. _____ PAN. _____ EQ. _____ | JKS. _____ L. _____ | PR. _____ | CKT. _____ | PR. _____ | CKT. _____ | PR. _____ | CKT. _____ |
| PR. | | CA. | | C. U. | | PR. | |

EQUIPMENT ASSIGNMENT CARD FORM E-4270

Form E-4270 - Equipment Assigned to Ringdown 4-Wire-2-Wire Through Toll Circuit Using Repeating Coil Hybrids

RD - 4W2W - THRU - REP. COIL

C. O. _____

CKT. NO. _____ () _____ () ITEM

| | | | | | | | |
|--|--|--|--|-------|--|--|--|
| PR. | | CA. | | C. U. | | PR. | |
| P. B. _____ PAN. _____ L. _____ JKS. _____ EQ. _____ | | PR. _____ CKT. _____ PR. _____ | | | | L. _____ P. B. _____ PAN. _____ EQ. _____ JKS. _____ | |
| NO. _____ L. _____ TYPE _____ CX. D. _____ | | | | | | L. _____ NO. _____ LG. _____ D. TYPE _____ CX. | |
| COIL _____ L. _____ TYPE _____ OP _____ LG. _____ D. _____ | | L. _____ 4 W TERM NO. _____ L. IN _____ OUT _____ PAD T. REC. _____ 2 W. N. _____ L. FLT. _____ NE _____ | | | | L. _____ COIL _____ D. TYPE _____ IP _____ | |
| 4 _____ REP. L. _____ NO. _____ OUT _____ 208-M STEP L. IN _____ | | HY. L. _____ RGR. _____ L. _____ ORF. _____ L. TYPE _____ STRAP _____ D. _____ | | | | L. _____ 4 _____ REP. IN _____ NO. _____ L. OUT _____ 208-M STEP _____ | |
| COIL _____ D. _____ TYPE _____ MF. _____ LG. _____ L. _____ | | TR. _____ 24 A _____ REP. _____ 2 W. _____ L. NO. _____ L. _____ | | | | HY. N. _____ BAL RGR. _____ N TYPE _____ | |
| COIL _____ D. _____ TYPE _____ MF. _____ LG. _____ L. _____ | | RC L. _____ W-E _____ E-W _____ 2 W. _____ L. FLT. _____ FLT. _____ N _____ | | | | D. _____ COIL _____ N. _____ L. TYPE _____ MF. _____ | |
| NO. _____ D. _____ TYPE _____ CX. LG. _____ L. _____ | | PR. _____ CKT. _____ | | | | D. _____ NO. _____ L. BAL _____ CX. | |
| P. B. _____ PAN. _____ EQ. _____ JKS. _____ L. _____ | | PR. _____ CKT. _____ | | | | NET WORK _____ TYPE _____ | |
| PR. | | CA. | | C. U. | | PR. | |

EQUIPMENT ASSIGNMENT RECORD FORM E-4271

Form E-4271 - Equipment Assigned to Ringdown 4-Wire-2-Wire Through Toll Circuit Using Repeating Coils

DIAL - 4W2W - THRU - 173 HYB

C. O. _____

CKT. NO. _____ () _____ () ITEM

| | | | | | | | |
|--|--|--|--|-------|--|--|--|
| PR. | | CA. | | C. U. | | PR. | |
| P. B. _____ PAN. _____ L. _____ JKS. _____ EQ. _____ | | PR. _____ CKT. _____ PR. _____ | | | | L. _____ P. B. _____ PAN. _____ EQ. _____ JKS. _____ | |
| NO. _____ L. _____ TYPE _____ CX. D. _____ | | E & M _____ SF OR SP _____ | | | | L. _____ NO. _____ LG. _____ D. TYPE _____ CX. | |
| COIL _____ L. _____ TYPE _____ OP _____ LG. _____ D. _____ | | IN _____ BLOCKING NET _____ OUT _____ NO. _____ A-1 _____ FREQ. _____ | | | | L. _____ COIL _____ D. TYPE _____ IP _____ | |
| 4 _____ REP. L. _____ NO. _____ OUT _____ 208-M STEP L. IN _____ | | L. _____ SF _____ SF _____ A-1 _____ EQ. TR FREQ. _____ MF OR DIAL _____ L. _____ A. TYPE _____ REC. FREQ. _____ EQ. _____ | | | | L. _____ 4 _____ REP. IN _____ NO. _____ L. OUT _____ 208-M STEP _____ | |
| V REPEATER _____ L. _____ ODD _____ L. _____ GAIN _____ IN _____ | | L. _____ 173 COIL _____ NET _____ CX. TYPE _____ SIG. _____ DP IN _____ NO. _____ DP OUT _____ | | | | L. IN _____ V REPEATER _____ L. EVEN _____ OUT GAIN _____ | |
| NO. _____ D. _____ TYPE _____ CX. LG. _____ L. _____ | | PR. _____ CKT. _____ | | | | IN _____ FILTER _____ OUT TYPE _____ | |
| P. B. _____ PAN. _____ EQ. _____ JKS. _____ L. _____ | | PR. _____ CKT. _____ | | | | N _____ NET _____ TYPE _____ | |
| PR. | | CA. | | C. U. | | PR. | |

EQUIPMENT ASSIGNMENT CARD FORM E-4272

Form E-4272 - Equipment Assigned to Dial 4-Wire-2-Wire Through Toll Circuit Using Repeating Coil Hybrids

SECTION 211-020-001

DIAL - 4W2W - THRU - REP. COIL

C. O. _____

CKT. NO. _____ () _____ () ITEM _____

| | | | |
|----------------------------------|-----|--|-----------------------------------|
| PR. | CA. | C. U. | PR. |
| P. B. PAN. L. EQ. | | PR. CKT. PR. | L. P. B. PAN. EQ. JKS. |
| NO. LG. D. TYPE CX. | | V REPEATER L. IN L. OUT ODD GAIN EVEN GAIN | L. NO. LG. D. TYPE CX. |
| COIL L. LG. D. TYPE OP. | | L. SF TR. FREQ. MF OR DIAL. REC. FREQ. A-1 | L. COIL LG. D. TYPE IP. |
| REP. L. OUT L. IN NO. 208-M STEP | | L. 4W. TERM. NO. PAD T REC. 2W L. IN 2W L. OUT | L. IN 4 NO. L. OUT 208-M STEP |
| COIL D. LG. L. TYPE MF. | | TR 24 A NO. REP. 2W L. W-E E-W 2W L. FLT. FLT. N | IN BLOCKING NET OUT NO. A-1 FREQ. |
| COIL D. LG. L. TYPE MF. | | E & M SF OR SP | D. COIL N. L. TYPE MF. |
| NO. D. LG. L. TYPE | | PR. CKT. PR. CKT. | D. NO. L. BAL. CX. |
| P. B. PAN. EQ. JKS. L. | | PR. CA. C. U. | NET WORK TYPE |

EQUIPMENT ASSIGNMENT RECORD FORM E-4273

Form E-4273 - Equipment Assigned to Dial 4-Wire-2-Wire Through Toll Circuit Using Repeating Coils

DIAL - SIG. PATH - C X

C. O. _____

SIG. PATH NO. _____ () _____ () ITEM _____

| | | | |
|------------------------------|---------------------------|----------|------------------------------|
| USP PR. CA. | S1 S2 PH | S1 S2 PH | USP PR. CA. |
| NO. L. T. R. LG. D. TYPE CX. | | | L. T. R. NO. LG. D. TYPE CX. |
| CXL CXD | E M SIG. CONV. NO. SG | | CXL CXD |
| SIG. EQ. L. T. R. TYPE E M | E M PLR NO. TYPE M | | L. T. R. SIG. EQ. E M TYPE |
| DSL DSD | | | DSL DSD |
| NETWORK | SIG. LINE E & M SIG. DROP | | NETWORK |
| OPTION | | | OPTION |

EQUIPMENT ASSIGNMENT CARD FORM E-4274

Form E-4274 - Equipment Assigned to Dial Signal Path, Terminal or Through Using Composite Signaling

