# E2A TELEMETRY SWITCHING CONTROL CENTER

# CENTRAL AND REMOTE MAINTENANCE

This section provides the maintenance procedures for the E2A telemetry equipment used in Switching Control Center Systems (SCCS). This issue contains maintenance information for the No. 1 Electronic Switching System (No. 1 ESS), No. 2B/3 ESS, No. 2 ESS/Automatic Intercept System (No. 2 ESS/AIS), the Traffic Service Position System (TSPS), and the No. 1A ESS. The procedures include tests for the critical indicator (CI) central, the command and display (C&D) central, the telemetry computer translator (TCT), and the E2A remotes at the central offices.

This section is reissued to include information on the TCT and the No. 1A ESS. Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

When a step-procedure chart refers to a table, ensure that the table referred to is for the system being maintained. See Table A for a list of the systems being maintained by this section and the associated table.

## CHART 1

### CI CENTRAL TESTING AND MAINTENANCE (A and B Cabinets)

Maintenance of the CI central (J92621-D) is accomplished through the use of the E-telemetry station test set and the critical indicator panels (CIPs) at the SCC. Chart 1 presents a step-procedure method of performing the maintenance of the CI central (A and B cabinets). This test assumes that the CIPs and the wiring from the CI central to the CIPs are in proper operating condition. Before starting the test, check all lamps on each CIP by operating the lamp test switch located on the

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**CHART 1 (Contd)**

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bottom of each CIP. Operate only one switch at a time, then reset before operating next panel. *If this is not done, a fuse may blow.* If any lamps do not light, replace before proceeding.

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**APPARATUS:**

E-telemetry station test set (KS-20937, L1)

General purpose plug-in (KS-20937, L4)

E2A test cable (KS-20937, L6)

Volt-ohm-milliammeter (KS-14510, L1), or equivalent

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| STEP | PROCEDURE |
|------|-----------|

*Note:* Before any testing of the central unit is begun, set all switches in the SCC equipment to the audible off position. Ensure that the +5, +15, and -15 Vdc power sources are being supplied to the unit on the TSA terminal strip.

*Caution: Remove power before removing or replacing any circuit pack.*

1     On the 202T data set, depress and hold the LT (local test) key for approximately 15 seconds.

*Requirement:* The MR, RS, CS, CO, and TM lamps will light and remain lighted for the duration of time that the LT key is depressed. If the TM lamp goes off during the 15-second period, repeat this step four additional times. If the TM lamp continues to go off, replace the data set and repeat the test.

2     Once the original data set or the new data set has met the requirement in Step 1, ensure that the following options in the data set are set as indicated and as listed in the associated applications schematic.

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**CHART 1 (Contd)**

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| STEP | PROCEDURE |
|---|---|

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| FEATURE OPTION | SETTING* |
|---|---|
| 1. 4-wire operation | (FF) |
| 2. Soft turnoff and squelch intervals | O, O |
| 3. Fast-carrier detection—in | (FF) |
| 4. Clear-to-send interval—8 ms | (FF) |
| 5. Clamp—in | (FF) |
| 6. Carrier detection—in | |
| 7. Continuous carrier—out | (FF) |
| 8. Grounding option—signal ground not connected to frame ground | |

* (FF) indicates factory furnished

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | x | x | 0 | 0 | 0 | x | x | x |

3 Once the requirement in Step 1 is met and the proper options are set, there is reasonable assurance that the data set is in proper working condition. Additional problems are probably within the remote circuitry. Steps 4 through 14 isolate the central circuit problems with the data set disconnected.

4 Insert and connect the general purpose plug-in unit into the E-telemetry station test set.

5 Operate the ACO switch on E2A CP 48 to the down position to prevent a local office alarm.

6 Locate and remove plug P1 from the 202T data set at the CI central unit.

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CHART 1 (Contd)

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| STEP | PROCEDURE |
|------|-----------|

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7    Mate the female pin connector of the E2A test cable to the P1 plug removed from the data set in Step 6. Plug the other end of the E2A test cable to the J2 connector on the E-telemetry station test set.

8    Set the controls on the E-telemetry station test set as follows:

| SWITCH | POSITION |
|--------|----------|
| SYSTEM | E2A |
| PARITY | B |
| BIT RATE | 1200 |
| MODE | ANSWER |
| ENABLE | NORMAL |
| DISPLAY ERROR WORD | OFF |
| DISPLAY WORD SELECT | 1 |
| POWER | OFF |
| RCU | OFF |
| MESSAGE LENGTH | 1 |
| WORD 1 | 1000000000000000 |
| WORD 2 through WORD 4 | 0000000000000000 |

9    Move the POWER switch to the ON (up) position.

10    Depress, in order, the MASTER CLEAR and START pushbuttons.

*Requirement:* The RCV and TMT lamps on the station test set will blink. If they do not blink, repeat Step 10. Information lamps 2, 13, 16, and 17 will be lighted. Information lamps 4 through 7 (or only as many remote stations that are active) will light in a sequential and cyclic manner as shown in Table B. If the second part of the requirement is not met, check the cross-connections on CP 8 per Note 104 on SD-1C541-01. If the cross connect is correct, replace all the following circuit packs (CP):

        CP 1
        CP 2
        CP 3
        CP 13 or 36
        CP 14
        CP 15
        CP 16

CHART 1 (Contd)

| STEP | PROCEDURE |
|------|-----------|
| | To determine the defective CP(s), replace the original CP(s) back in the central unit one at a time, repeating Step 10 after each replacement, until the unit malfunctions. The last originally installed CP is defective and will be replaced with a spare. |
| 11 | Observe the CIP and move switch number 3 in WORD 1, on the general purpose plug-in unit, to the 1 (up) position.<br><br>*Requirement:* The CRITICAL lamps will light in sequential order on all the CIPs. If the requirement is not met, replace CP 17 and CP 18 and repeat the step. |
| 12 | Depress the ALM REL key on the central office select unit (COSJU). This step is only required for latching alarms (see Tables C through I). |
| 13 | Return switch number 3 in WORD 1 to the 0 (down) position.<br><br>*Requirement:* All CRITICAL lamps will go off. If the requirement is not met, replace CP 17 and CP 18 and repeat the step. |
| 14 | Repeat the procedures used in Steps 11 through 13 for each remaining switch (4-17) in the appropriate table (Table C, D, E, F, G, H, or I), depending on the system.<br><br>*Requirement:* The corresponding CIP lamp will light as shown in Table C, D, E, F, G, H, or I. If any part of the above requirement fails, replace CP 17 and CP 18 and repeat the step. Determine the defective CP(s) by replacing the original CP(s) back in the central, one at a time, until the unit malfunctions. The last CP replaced is defective and will be replaced with a spare. |
| 15 | Remove the test set, and connect plug P1 to the 202T data set. |
| 16 | Operate the ACO switch to the reset position and release. |

CHART 2

C&D CENTRAL GROUP REPORT COMMAND TROUBLESHOOTING

The C&D central (J92621-C,P) unit is located within the SCC console [SCC control console type J1C016( )]. To check the C&D central unit, it is necessary to ensure that the keys, lamps, and interface to the C&D central unit are in proper operating condition.

Before any tests are initiated, turn the console power switch on, depress the LOC LAMP TEST pushbutton switch, and note any lamps or keys which do not light. Replace defective lamps before proceeding.

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### CHART 2 (Contd)

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Chart 2 describes in detail the equipment needed and the procedure for troubleshooting the group report commands sent by the C&D central unit.

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**APPARATUS:**

E-telemetry station test set (KS-20937, L1)

General purpose plug-in (KS-20937, L4)

E2A test cable (KS-20937, L6)

Volt-ohm-milliammeter (KS-14510, L1), or equivalent

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| STEP | PROCEDURE |
|------|-----------|

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*Note:* Before starting the step-procedure testing of the central, a preliminary test should be performed as follows: Turn off power to the console. Remove the cover from the console; turn the console power switch to on; and check that the +5, +15, and –15 Vdc power sources are supplied to the C&D central unit on terminal strip TSA. If all the voltages are present, proceed with Step 1. If any voltages are not present, repair or replace the power supply as necessary.

*Caution: Remove power before removing or replacing any circuit pack.*

1    On the 202T data set, depress and hold the LT key for approximately 15 seconds.

    *Requirement:* The MR, RS, CS, CO, and TM lamps will light and remain lighted for the duration of time that the LT key is depressed. If the TM lamp goes off during the 15-second period, repeat this step four additional times. If the TM lamp continues to go off, replace the data set and repeat the test.

2    Once the original data set or the new data set has met the requirement in Step 1, ensure that the following options in the data set are set as indicated and as listed in the associated applications schematic.

## CHART 2 (Contd)

| STEP | PROCEDURE |
|---|---|

| FEATURE OPTION | SETTING* |
|---|---|
| 1. 4-wire operation | (FF) |
| 2. Soft turnoff and squelch intervals | O, O |
| 3. Fast-carrier detection—in | (FF) |
| 4. Clear-to-send interval—8 ms | (FF) |
| 5. Clamp—in | (FF) |
| 6. Carrier detection—in | |
| 7. Continuous carrier—out | (FF) |
| 8. Grounding option—signal ground not connected to frame ground | |

\* (FF) indicates factory furnished

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | x | x | 0 | 0 | 0 | x | x | x |

3     Once the requirement in Step 1 is met and the proper options are set, there is reasonable assurance that the data set is in proper working condition. Additional problems are probably within the remote circuitry. Steps 4 through 16 isolate the central circuit problems with the data set disconnected.

4     Set the SCC console POWER switch to the OFF position.

5     Insert and connect the general purpose plug-in unit into the E-telemetry station test set.

6     Replace the data set card with a good spare card.

7     Locate and remove plug P1 from the 202T data set at the central unit.

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CHART 2 (Contd)

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| STEP | PROCEDURE |
|------|-----------|

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8     Mate the female pin connector of the E2A test cable to the P1 plug removed in Step 7. Connect the other end of the test cable to the J2 connector on the E-telemetry station test set.

9     Set the controls on the E-telemetry station test set as follows:

| SWITCH | POSITION |
|--------|----------|
| SYSTEM | E2A |
| PARITY | B |
| BIT RATE | 1200 |
| MODE | ANSWER |
| ENABLE | NORMAL |
| DISPLAY ERROR WORD | OFF |
| DISPLAY WORD SELECT | 1 |
| POWER | OFF |
| RCU | OFF |
| MESSAGE LENGTH | 16 |
| WORD 1 through WORD 4 | 1000000000000000 |

10     Depress the SCC console power switch on.

    *Requirement 1:*   The CSL PWR ON lamp will light.

    *Requirement 2:*   The TELEMETRY, CENT, and REM lamps may light. If this happens, depress the TLM ALM RLS key. Note, these lamps will relight if the test set has not been turned on.

11     Move the POWER switch on the E-telemetry station test set to the ON (up) position.

12     Depress, in order, the MASTER CLEAR and START pushbuttons.

    *Requirement:*   The TMT, RCV, VALID WORD, and WORD 1 through WORD 4 lamps on the E-telemetry station test set will blink; lamps 17, 16, and 13 of the information word will display 000, 001, 010, 100 (17, 16, 13 through 17, 16, 13) in a sequential and cyclic order.

    *Note:*   1—lighted lamp, 0—off lamp.

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**CHART 2 (Contd)**

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**STEP**                                    **PROCEDURE**

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If the requirement is not met, replace all of the following circuit packs:

CP 1
CP 2
CP 3
CP 13 or 36
CP 14
CP 15
CP 16

Inspect CP 8 for proper strapping connections per Note 104 of SD-1C540-01-D1. After all of the listed CPs are replaced, determine the defective CP(s) by inserting the original CP(s) back in the central unit one by one. Repeat Step 12 after each replacement until the unit malfunctions. The last originally installed CP is defective and will be replaced with a spare.

13    Depress the TLM ALM RLS key. The CENT and REM TELEMETRY lights will go out.

14    On the E-telemetry station test set, set switch 2 of WORD 1 to the 1 (up) position.

*Requirement:* The console lamps designated per Table J, K, or L (depending on system) will light. If no lamp lights, replace CP 18 and repeat the step. If any part of the requirement is not met, replace CP 17 in the location(s) specified by the appropriate table for the unlighted lamp(s).

15    Return switch 2 of WORD 1 to the 0 (down) position.

*Requirement:* The console lamps designated per Table J, K, or L (depending on system) will go off. If the requirement is not met, replace CP 17 in the location specified by the appropriate table and repeat the step.

16    Repeat the procedures used in Steps 14 and 15 for each switch (2-17) in WORD 1 through WORD 4 per Table J, K, or L (depending on system).

## CHART 3

### C&D CENTRAL RELAY OUTPUT COMMAND TROUBLESHOOTING

Chart 3 describes in detail the equipment needed and the procedure for troubleshooting the relay output commands from the C&D central unit.

**APPARATUS:**

E-telemetry station test set (KS-20937, L1)

General purpose plug-in (KS-20937, L4)

E2A test cable (KS-20937, L6)

Volt-ohm-milliammeter (KS-14510, L1), or equivalent

| STEP | PROCEDURE |
| --- | --- |

*Note:* Before starting the step-procedure testing of the central, a preliminary test should be performed as follows: Remove the cover from the console, turn the console power switch to ON, and check that the +5, +15, and -15 Vdc power sources are supplied to the C&D central unit on terminal strip TSA. If all the voltages are present, proceed with Step 1. If any voltage is not present, repair or replace the power supply as necessary.

*Caution: Remove power before removing or replacing any circuit pack.*

1    On the 202T data set, depress and hold the LT key for approximately 15 seconds.

*Requirement:* The MR, RS, CS, CO, and TM lamps will light and remain lighted for the duration of time that the LT key is depressed. If the TM lamp goes off during the 15-second period, repeat this step four additional times. If the TM lamp continues to go off, replace the data set and repeat the test.

2    Once the original data set or the new data set has met the requirement in Step 1, ensure that the following options in the data set are set as indicated and as listed in the associated applications schematic.

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## CHART 3 (Contd)

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| STEP | PROCEDURE |
|---|---|

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| FEATURE OPTION | SETTING* |
|---|---|
| 1. 4-wire operation | (FF) |
| 2. Soft turnoff and squelch intervals | O, O |
| 3. Fast-carrier detection—in | (FF) |
| 4. Clear-to-send interval—8 ms | (FF) |
| 5. Clamp—in | (FF) |
| 6. Carrier detection—in | |
| 7. Continuous carrier—out | (FF) |
| 8. Grounding option—signal ground not connected to frame ground | |

* (FF) indicates factory furnished

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | x | x | 0 | 0 | 0 | x | x | x |

3    Once the requirement in Step 1 is met and the proper options are set, there is reasonable assurance that the data set is in proper working condition. Additional problems are probably within the remote circuitry. Steps 4 through 14 isolate the central circuit problems with the data set disconnected.

4    Insert and connect the general purpose plug-in unit into the E-telemetry station test set.

5    Locate and remove plug P1 from the 202T data set at the central unit.

6    Mate the female pin connector of the E2A test cable to the P1 plug removed in Step 5. Connect the other end of the test cable into the J2 connector on the E-telemetry station test set.

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CHART 3 (Contd)

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| STEP | PROCEDURE |
|------|-----------|

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7    Set the controls on the E-telemetry station test set as follows:

| SWITCH | POSITION |
|--------|----------|
| SYSTEM | E2A |
| PARITY | B |
| BIT RATE | 1200 |
| MODE | ANSWER |
| ENABLE | NORMAL |
| DISPLAY ERROR WORD | OFF |
| DISPLAY WORD SELECT | 3 |
| POWER | OFF |
| RCU | OFF |
| MESSAGE LENGTH | 16 |
| WORD 1 through WORD 4 | 1000000000000000 |

8    Turn the SCC console unit power switch on.

9    Move the station test set POWER switch to the ON (up) position.

10    Depress, in order, the MASTER CLEAR and START pushbuttons.

*Requirement:* The TMT, RCV, VALID WORD, ERROR WORD and WORD 1 through WORD 4 lamps will blink. If the requirement is not met, repeat the step. If the requirement is still not met, replace all of the following CPs:

        CP 1
        CP 2
        CP 3
        CP 13
        CP 14
        CP 15
        CP 16

Inspect CP 8 for proper strapping connections per Note 104 of SD-1C540-01-D1. Determine the defective CP(s) by inserting the original CP(s) back in the central unit, one at a time. Repeat Step 10 after each replacement until the unit malfunctions. The last original CP installed is defective and will be replaced with a spare.

CHART 3 (Contd)

| STEP | PROCEDURE |
|------|-----------|

11      Depress the TLM ALM RLS key.

*Requirement:* All console lamps will go off except CLS PWR ON (TELE REM and SYSTEM ON LINE for No. 2 console only).

12      Depress each switch on the SCC console per Table M, N, or O (depending on system).

*Requirement:* The INFORMATION lamps on the E-telemetry station test set will light momentarily as indicated in Table M, N, or O. A lighted lamp is indicated by a "1," and an off lamp is indicated by a "0." If the requirement is not met, replace CP 21 in the location specified by the appropriate table. If the lamps indicated do not light after replacing CP 21, depress a few other switches and note whether they operate properly. If no switch operates properly, replace CPs 19 and 20 and repeat the step.

13      Depress and hold the RLS-OVRD key and at the same time depress any of the locking keys that are off.

*Requirement:* INFORMATION lamp 2 (bit 2) will go off and remain off, indicating a release command has been forced.

14      On the E-telemetry station test set, set WORD 2, switches 2 through 17, to position 1 (up). Set WORD 3, switches 2 through 13, to position 1 (up). For No. 2 console only, set WORD 4, switches 2, 3, 4, and 9 to position 1. Remove AR761 (CP 3) for TSPS.

*Requirement:* All LOCKING KEY lamps, all PROGRAM CONTROL keys, and EA DIS T-OUT key are lighted.

15      With the locking keys lighted, depress and release each switch on the SCC console per Table M, N, or O and observe INFORMATION lamp 2.

*Requirement:* INFORMATION lamp 2 should remain off.

16      Depress and hold the OPR OVRD key and at the same time depress any of the locking keys which are lighted.

*Requirement:* INFORMATION lamp 2 lights momentarily indicating an operate command has been forced.

17      On the test set, return all switches to 0 except bit 1 of WORD 1 through WORD 4, and reinsert circuit pack.

18      Depress each switch listed in Table P, Q, or R (depending on system) and release.

*Requirement:* The INFORMATION lamps on the E-telemetry station test set will light per Table P, Q, or R with lamp 2 momentarily lighting when depressed and going out when the switch is released. If the requirement is not met, replace CP 21 in the location

## CHART 3 (Contd)

| STEP | PROCEDURE |
|------|-----------|

specified by the appropriate table. If the lamps indicated do not light after replacing CP 21, depress a few other switches and note whether they operate properly. If no switch operates properly, replace CPs 19 and 20 and repeat the step.

## CHART 4

### TCT REPLACEMENT

A spare TCT (J92621-E) is provided at the SCC central for maintenance purposes. If a TCT is determined to be faulty, through the use of the system tests, it is replaced with the spare as set forth in Chart 4. The defective TCT is then returned to a Western Electric Service Center for repair. Once the TCT has been replaced, verify proper operation through the use of the system test.

**APPARATUS:**

None.

| STEP | PROCEDURE |
|------|-----------|
| 1 | Notify the control console operator that the TCT is about to be replaced. |
| 2 | Disconnect the power cord and the three connectorized cables from connectors J1, J2, and J3 located on the back of the TCT. |
| 3 | Slide the defective TCT out of the control console 1A cabinet and replace it with the spare. |
| 4 | Reconnect the cables and power cord removed in Step 2. |
| 5 | Notify the control console operator that the defective TCT has been replaced. |

# CHART 5

## REMOTE STATUS POINT MAINTENANCE

Charts 5 and 6 describe in detail the equipment needed and the procedure for troubleshooting the SCC E2A remote units (J92621-B, -AD, -AE, -M, and -AH).

**APPARATUS:**

E-telemetry station test set (KS-20937, L1)

General purpose plug-in (KS-20937, L4)

E2A test cable (KS-20937, L6)

Volt-ohm-milliammeter (KS-14510, L1), or equivalent

| STEP | PROCEDURE |
|------|-----------|

*Note:* Before starting the step-procedure testing of the E2A remote unit, a preliminary test should be performed to ensure that the +5, +15, and -15 Vdc power sources are supplied to the remote. For remote J92621-B, -AD, -AE, or -M, check for the voltages on terminal strips TSA and TSB and if any of the power sources are absent, replace CP 12 in location CA for J92621-B or CP 12 in location EC for J92621-AD, -AE, and -M. Verify J92621-AH remote voltages as follows:

| VOLTAGE | POWER MODULE | CONNECTOR TERMINAL | VOLTAGE NOT PRESENT—REPLACE |
|---------|--------------|--------------------|-----------------------------|
| +15 | LPM | 5 | LPM—CP 12 |
| −15 | LPM | 9 | LPM—CP 12 |
| +5 | LPM | 201 | LPM—CP 12 |
| +5 | RPM | 201 | RPM—CP 12 |

(LPM + RPM = left and right power module as viewed from the rear.)

*Caution:* **Remove power before removing or replacing any circuit pack.**

*Note:* For J92621-AH remotes only, proceed to Step 4.

1     On the 202T data set, depress and hold the LT key for approximately 15 seconds.

*Requirement:* The MR, RS, CS, CO, and TM lamps will light and remain lighted for the duration of time that the LT key is depressed. If the TM lamp goes off during the

CHART 5 (Contd)

| STEP | PROCEDURE |
|------|-----------|

15-second period, repeat this step four additional times. If the TM lamp continues to go off, replace the data set and repeat the test.

2    Once the original data set or the new data set has met the requirement in Step 1, ensure that the following options in the data set are set as indicated and as listed in the associated applications schematic.

| FEATURE OPTION | SETTING* |
|----------------|----------|
| 1. 4-wire operation | (FF) |
| 2. Soft turnoff and squelch intervals | O, O |
| 3. Fast-carrier detection—in | (FF) |
| 4. Clear-to-send interval—8 ms | (FF) |
| 5. Clamp—in | (FF) |
| 6. Carrier detection—in | |
| 7. Continuous carrier—out | (FF) |
| 8. Grounding option—signal ground not connected to frame ground | |

* (FF) indicates factory furnished

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | x | x | 0 | 0 | 0 | x | x | x |

3    Once the requirement in Step 1 is met and the proper options are set, there is reasonable assurance that the data set is in proper working condition. Additional problems are probably within the remote circuitry. Steps 4 through 12 isolate the remote circuit problems with the data set disconnected.

4    Insert and connect the general purpose plug-in unit into the E-telemetry station test set.

5    Locate and remove plug P1 of the remote unit 202T data set.

## CHART 5 (Contd)

| STEP | PROCEDURE |
|------|-----------|

6    Mate the female pin connector of the E2A test cable to the P1 plug removed from the data set in Step 5. Plug the other end of the test cable into the J2 connector on the E-telemetry station test set.

7    Set the controls on the E-telemetry station test set as follows:

| SWITCH | POSITION |
|--------|----------|
| SYSTEM | E2A |
| PARITY | B |
| BIT RATE | 1200 |
| MODE | CONT |
| ENABLE | NORMAL |
| DISPLAY ERROR WORD | OFF |
| DISPLAY WORD SELECT | 1 |
| POWER | OFF |
| RCU | OFF |
| MESSAGE LENGTH | 1 |
| WORD 1 | 0101111111000000 |
| WORD 2 through WORD 4 | 0000000000000000 |

8    Move the POWER switch to the ON (up) position.

9    Depress, in order, the MASTER CLEAR and START pushbutton switches.

**Requirement:** The TMT, RCV, and VALID WORD lamps will blink. If the requirement is not met, repeat Step 9. If the requirement is still not met, replace **all** of the following CPs:

CP 1
CP 2
CP 3
CP 48
CP 5

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CHART 5 (Contd)

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| STEP | PROCEDURE |
| --- | --- |

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Inspect CP 34 for proper connections per Note 104 of SD-1C539-01-D1 for J92621-B; SD-2P021-01-D1 for J92621-AD, -AE, and -M; or SD-2P023-01-D1 for J92621-AH. Determine the defective CP(s) by inserting the original CP(s) back in the remote unit, one at a time. Repeat Step 9 after each replacement until the unit malfunctions. The last original CP installed is defective and will be replaced with a spare. Continue with this procedure until all CPs have been checked.

10      Hold the TEST switch, on CP 34, in the 1 (up) position.

*Requirement:* INFORMATION lamps 1 through 17 will light. If the requirement is not met, replace the CP in location AA (see Table S, T, U, V, or W [depending on system]).

11      Hold the TEST switch on CP 34 in the 0 (down) position.

*Requirement:* INFORMATION lamp 1 will remain lighted, and lamps 2 through 17 will go off. If the requirement is not met, replace the CP in location AA (see Table S, T, U, V, or W).

12      Repeat the procedures used in Steps 10 and 11 for each set of switch settings (WORD 1, switches 13 through 17, and the DISPLAY WORD SELECT switch) as shown in Table S, T, U, V, or W.

*Requirement:* The INFORMATION lamps will light as set forth in the requirements for Steps 10 and 11. If the requirements are not met, replace the associated CP (see Table S, T, U, V, or W) and repeat the test.

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CHART 6

REMOTE RELAY OUTPUT MAINTENANCE

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APPARATUS:

E-telemetry station test set (KS-20937, L1)

General purpose plug-in (KS-20937, L4)

E2A test cable (KS-20937, L6)

E2A K1-1 extender board (KS-20937, L9)

E2A K1-4 lamp board (KS-20937, L12)

E2A K1-5 lamp board (KS-20937, L13)

CHART 6 (Contd)

| STEP | PROCEDURE |
|------|-----------|

*Note:* Before starting the step-procedure testing of the E2A remote unit, a preliminary test should be performed to ensure that the +5, +15, and –15 Vdc power sources are supplied to the remote. For remote J92621-B, -AD, -AE, or -M, check for the voltages on terminal strips TSA and TSB. If any of the power sources are absent, replace CP 12 in location CA for J92621-B or CP 12 in location EC for J92621-AD, -AE, and -M. Verify J92621-AH remote voltages as follows:

| VOLTAGE | POWER MODULE | CONNECTOR TERMINAL | VOLTAGE NOT PRESENT—REPLACE |
|---------|--------------|--------------------|------------------------------|
| +15 | LPM | 5 | LPM—CP 12 |
| −15 | LPM | 9 | LPM—CP 12 |
| +5 | LPM | 201 | LPM—CP 12 |
| +5 | RPM | 201 | RPM—CP 12 |

(LPM + RPM = left and right power modules as viewed from the rear.)

*Caution:* **Remove power before removing or replacing any circuit pack.**

*Note:* For J92621-AH remotes only, proceed to Step 4.

1    On the 202T data set, depress and hold the LT key for approximately 15 seconds.

*Requirement:* The MR, RS, CS, CO, and TM lamps will light and remain lighted for the duration of time that the LT key is depressed. If the TM lamp goes off during the 15-second period, repeat this step four additional times. If the TM lamp continues to go off, replace the data set and repeat the test.

2    Once the original data set or the new data set has met the requirement in Step 1, ensure that the following options in the data set are set as indicated and as listed in the associated applications schematic.

CHART 6 (Contd)

| STEP | PROCEDURE |
| --- | --- |

| FEATURE OPTION | SETTING* |
| --- | --- |
| 1. 4-wire operation | (FF) |
| 2. Soft turnoff and squelch intervals | O, O |
| 3. Fast-carrier detection—in | (FF) |
| 4. Clear-to-send interval—8 ms | (FF) |
| 5. Clamp—in | (FF) |
| 6. Carrier-detection—in | |
| 7. Continuous carrier—out | (FF) |
| 8. Grounding option—signal ground not connected to frame ground | |

* (FF) indicates factory furnished

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | x | x | 0 | 0 | 0 | x | x | x |

3    Once the requirement in Step 1 is met and the proper options are set, there is reasonable assurance that the data set is in proper working condition. Additional problems are probably within the remote circuitry. Steps 4 through 27 isolate the remote circuit problems with the data set disconnected.

4    Insert and connect the general purpose plug-in unit into the E-telemetry station test set.

5    Locate and remove the plug P1 from the 202T data set at the remote unit.

6    Mate the female pin connector of the E2A test cable to the P1 plug removed from the data set in Step 5. Plug the other end of the test cable into the J2 connector on the E-telemetry station test set.

CHART 6 (Contd)

| STEP | PROCEDURE |
|------|-----------|
| 7 | Set the controls on the É-telemetry station test set as follow: |

| SWITCH | POSITION |
|--------|----------|
| POWER | OFF |
| SYSTEM | E2A |
| PARITY | B |
| BIT RATE | 1200 |
| MODE | CONT |
| ENABLE | NORMAL |
| DISPLAY ERROR WORD | OFF |
| DISPLAY WORD SELECT | 1 |
| RCU | OFF |
| MESSAGE LENGTH | 3 |
| WORD 1 | 0100111111011111 |
| WORD 2 | 1001111111001111 |
| WORD 3 | 1000000000000000 |
| WORD 4 | 0000000000000000 |

8    Move the POWER switch to the ON position.

9    Depress, in order, the MASTER CLEAR and START pushbuttons.

*Requirement:* RECEIVE lamps 1 and 12 will light. If this requirement is not met, perform Chart 5 test (Remote Status Point Maintenance).

10    Remove power from the remote.

11    Remove CP 6 or CP 37 from location AA and insert the List 9 extender board in its place.

12    Plug the removed CP 6 or CP 37 card into the end of the extender board.

13    Plug the List 12 lamp board into the List 9 extender board.

14    Return power to the remote.

15    Set WORD 3, switch 2, on the test set to the 1 (up) position.

16    Depress, in order, the MASTER CLEAR and START pushbuttons.

---

**CHART 6 (Contd)**

---

| STEP | PROCEDURE |
|------|-----------|

---

*Requirement:*  Lamp 1, on the List 12 lamp board, will light.  If the requirement is not met, replace the associated CP 6 or CP 37 and repeat the step.

17      Set WORD 3, switch 2, on the test set to the 0 (down) position.

*Requirement:*  Lamp 1, on the List 12 lamp board, will go off.  If the requirement is not met, replace the associated CP 6 or CP 37 and repeat the step.

18      Repeat the procedures used in Steps 15 through 17 for all remaining WORD 3 switch settings listed in Table X, Y, Z, AA, or AB (depending on the system) for the CP under test.

*Note:*  Remove power from E2A unit when circuit packs are being removed and inserted. If a CP 6 or CP 37 is replaced while performing Step 18, repeat the test starting at Step 15.

19      Repeat the procedures used in Steps 16 through 19 for all remaining CP 6s or CP 37s listed in Table X, Y, Z, AA, or AB.

20      Remove power from E2A remote.

21      Remove the last CP 6 or CP 37 tested, the List 12 lamp board, and the extender board. Reinsert the CP 6 or CP 37 in the module.

22      Remove the first CP 11 listed in Table AC, AD, AE, or AF (depending on system), and insert the List 9 extender board in its place.

23      Plug the CP 11 card into the end of the extender board.

24      Plug the List 13 lamp board into the K-1 extender board.

25      Set WORD 3, switch 2, on the test set to the 1 (up) position.

26      Depress, in order, the MASTER CLEAR and START pushbuttons.

*Requirement:*  Lamp 1, on the List 13 lamp board, will light.  If the requirement is not met, replace CP 11 and repeat the step.

27      Set WORD 3, switch 2, on the test set to the 0 (down) position.

*Requirement:*  Lamp 1, on the List 13 lamp board, will go off.  If the requirement is not met, replace CP 11 and repeat the step.

28      Repeat the procedures used in Steps 25 through 27 for all remaining WORD 3 switch settings listed in Table AC, AD, AE, or AF for the CP under test.

CHART 6 (Contd)

| STEP | PROCEDURE |
|------|-----------|

*Note:* If a CP 11 is replaced while performing Step 17, repeat the test starting at Step 24.

29    Repeat the procedures used in Steps 25 through 28 for all remaining CP 11s listed in Table AC, AD, AE, or AF.

## 6. REFERENCES

6.01   The following is a list of Bell System Practices, schematic diagrams, and circuit descriptions which refer to or contain information on the E2A telemetry equipment used in switching control centers.

| SECTION | TITLE |
|---------|-------|
| 190-110-110 | No. 2 Switching Control Center System—Common Application—Description |
| 190-110-302 | No. 2 Switching Control Center System—Common Application—Hardware Check Procedure |
| 190-110-310 | No. 2 Switching Control Center System—Common Application—Hardware Operation and Reconfiguration |
| 190-110-314 | No. 2 Switching Control Center System—Common Equipment—Troubleshooting Procedures |
| 190-110-321 | No. 1 and No. 2 Switching Control Center Systems—Common Application—System Acceptance Test and Periodic Evaluation Procedures |
| 201-653-102 | E2A Telemetry—Switching Control Center System—Description |
| 592-031-100 | Data Set 202T—Description and Operation |
| 592-031-300 | Data Set 202T—Maintenance |
| 592-031-500 | Data Set 202T—Transmitter-Receiver—Test Procedures |

| DOCUMENT | DESCRIPTION |
|----------|-------------|
| 1C533-01 | E2A Telemetry System—Remote Circuit Modules |
| 1C534-01 | E2A Telemetry System—Central Circuit Modules |
| 1C535-01 | E2A Telemetry System—Telemetry Computer Translator |
| 1C539-01 | No. 1 ESS Remote Application Schematic |

| DOCUMENT | DESCRIPTION |
|---|---|
| 1C540-01 | SCC C&D Console Central Application Schematic |
| 1C541-01 | SCC CI Central Application Schematic |
| 1D243-01 | 202T Data Set Schematic |
| 2P021-01 | SCC Remote Application Schematic |
| 2P023-01 | E2A Telemetry System—1A Processor SCC Remote Application Schematic |

TABLE A

SYSTEMS AND ASSOCIATED TABLES

| SYSTEM | ASSOCIATED TABLE |
|---|---|
| NO. 1 ESS — CRITICAL INDICATORS | C |
| NO. 2B ESS — CRITICAL INDICATORS | D |
| NO. 3 ESS — CRITICAL INDICATORS | E |
| NO. 2 ESS — CRITICAL INDICATORS | F |
| AIS — CRITICAL INDICATORS | G |
| TSPS — CRITICAL INDICATORS | H |
| NO. 1A ESS — CRITICAL INDICATORS | I |
| NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS | J |
| NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS | K |
| TSPS — C&D CENTRAL GROUP REPORT COMMANDS | L |
| NO. 1 ESS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS) | M |
| TSPS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS) | N |
| NO. 2 ESS/AIS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS) | O |
| NO. 1 ESS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS) | P |
| NO. 2 ESS/AIS—C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS) | Q |
| TSPS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS) | R |
| NO. 1 ESS — REMOTE STATUS POINTS | S |
| NO. 2 ESS/AIS — REMOTE STATUS POINTS | T |
| NO 2B ESS — REMOTE STATUS POINTS | U |
| TSPS — REMOTE STATUS POINTS | V |
| NO. 1A ESS — REMOTE STATUS POINTS | W |
| NO. 1 ESS — REMOTE RELAY OUTPUT MAINTENANCE | X |
| NO. 2 ESS/AIS — REMOTE RELAY OUTPUT MAINTENANCE | Y |
| NO. 2B/3 ESS — REMOTE RELAY OUTPUT MAINTENANCE | Z |
| TSPS — REMOTE RELAY OUTPUT MAINTENANCE | AA |
| NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE | AB |
| NO. 1 ESS — REMOTE RELAY OUTPUT MAINTENANCE | AC |
| NO. 2 ESS/AIS — REMOTE RELAY OUTPUT MAINTENANCE | AD |
| TSPS — REMOTE RELAY OUTPUT MAINTENANCE | AE |
| NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE | AF |

TABLE B

STATION ADDRESS LAMPS

| 4 | 5 | 6 | 7 |
|---|---|---|---|
| 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 0 |
| 1 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 |
| 1 | 1 | 1 | 0 |
| 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 |
| 1 | 1 | 0 | 1 |
| 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 |

Legend:

1 — Lamp lighted
0 — Lamp off

TABLE C

NO. 1 ESS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | CC |
| 8 | SP |
| 9 | PS |
| 10 | CS |
| 11 | PERIPH A |
| 12 | PERIPH B |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms
** May be latching (option of SCC)

TABLE D

NO. 2B ESS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | CU |
| 8 | NET |
| 9 | SCAN |
| 10 | AMA |
| 11 | MAS |
| 12 | MISC |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\*\* May be latching (option of SCC)

TABLE E

NO. 3 ESS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | SYC |
| 8 | RT |
| 9 | AMA |
| 10 | — |
| 11 | PERIPH A |
| 12 | PERIPH B |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\*\* May be latching (option of SCC)

TABLE F

NO. 2 ESS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL * |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | INT DIS |
| 8 | NET |
| 9 | SCAN |
| 10 | AMA |
| 11 | — |
| 12 | MISC |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\*\* May be latching (option of SCC)

TABLE G

AIS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | INT DIS |
| 8 | FI |
| 9 | CN |
| 10 | AN |
| 11 | PERIPH A |
| 12 | PERIPH B |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\*\* May be latching (option of SCC)

TABLE H

TSPS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | PROC |
| 8 | STORE |
| 9 | SPC PU |
| 10 | BASE PU |
| 11 | PSS/RTA |
| 12 | — |
| 13 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG/INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\** May be latching (option of SCC)

TABLE I

NO. 1A ESS — CRITICAL INDICATORS

| WORD 1 SWITCH NUMBER | CORRESPONDING CIP LAMP LIGHTED |
|---|---|
| 2 | CKT LIM |
| 3 | CRITICAL* |
| 4 | MAJOR** |
| 5 | MINOR** |
| 6 | SYS EMER** |
| 7 | CC |
| 8 | FS |
| 9 | PS |
| 10 | CS |
| 11 | PERIPH A |
| 12 | PERIPH B |
| 12 | BLDG/PWR |
| 14 | FORCED |
| 15 | BLDG INH |
| 16 | TRAFFIC |
| 17 | — |

\* Latching alarms

\** May be latching (option of SCC)

**TABLE J**

**NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 1 | 2 | SYSTEM ALARMS — DT DEL ALM | BG |
| | | PROCESSOR STATUS — SIGNAL PROC 0 — ACT | BE |
| | 3 | CRITICAL | BD |
| | | SYSTEM ALARMS — MCC PWR ALM | BG |
| | | PROCESSOR STATUS — SIGNAL PROC 1 — ACT | BE |
| | 4 | MAJOR | BD |
| | | SYSTEM ALARMS — COML PWR | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — STOP | BE |
| | 5 | MINOR | BD |
| | | SYSTEM STATUS — RPTD T OUT | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — CLK | BE |
| | | HARDWARE CONFIGURATION — RPTD T OUT | BG |
| | 6 | SYSTEM STATUS — EA PH IN PROG | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — STOP | BE |
| | | PROGRAM INTERRUPT CONTROL — EA PH IN PROG | BG |
| | 7 | SYSTEM STATUS — MISC TBL | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — CLK | BE |
| | 8 | SYSTEM ALARMS — 4A TMR PWR ALM | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — SEND 0 | BE |
| | 9 | SYSTEM STATUS — TRK MB OVFL | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — PS BUS — RCV 0 | BE |
| | 10 | SYSTEM STATUS — DIAGS IN PROG | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — PS BUS — SEND 0 | BE |
| | 11 | SYSTEM STATUS — OFF NOR | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — PS BUS — RCV 0 | BE |
| | 12 | PROCESSOR STATUS — CENTRAL CONTROL 0 — PS BUS — SEND 1 | BE |
| | | HARDWARE CONFIGURATION — INVD | BG |
| | 13 | SYSTEM STATUS — CO ALM INH | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — PS BUS — RCV 1 | BE |

TABLE J (Contd)

NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 1 | 14 | PROCESSOR STATUS — CENTRAL CONTROL 1 — PS BUS — SEND 1 | BE |
| | | SYSTEM INDICATORS — L SRV REQ HPR UNLD RT — MIN | BG |
| | 15 | PROCESSOR STATUS — CENTRAL CONTROL 1 — PS BUS — RCV 1 | BE |
| | | SYSTEM INDICATORS — L SRV REQ HPR UNLD RT — MID | BG |
| | 16 | PROCESSOR STATUS — CENTRAL CONTROL 0 — CS BUS — SEND 0 | BE |
| | | SYSTEM INDICATORS — L SRV REQ HPR UNLD RT — MAX | BG |
| | 17 | PROCESSOR STATUS — CENTRAL CONTROL 0 — CS BUS — RCV 0 | BE |
| 2 | 2* | PERIPHERAL STATUS — LINE SWITCH P | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — CS BUS — SEND 0 | BE |
| | | PROGRAM DISPLAY — 8 | BJ |
| | | HARDWARE CONFIGURATION — EA DIS T OUT | BC |
| | 3 | PERIPHERAL STATUS — LINE SWITCH S | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — CS BUS — RCV 0 | BE |
| | | PROGRAM DISPLAY — 9 | BJ |
| | | TRAFFIC CONTROL — ENAB | BC |
| | 4 | PHERIPHERAL STATUS — JUNCTOR SWITCH P | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — CS BUS — SEND 1 | BE |
| | | PROGRAM DISPLAY — 10 | BJ |
| | | TRAFFIC CONTROL — EMER MAN SRV (KEY) | BC |
| | 5 | PERIPHERAL STATUS — JUNCTOR SWITCH S | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — CS BUS — RCV 1 | BE |
| | | PROGRAM DISPLAY — 11 | BJ |
| | | PROGRAM CONTROL — BLK | BC |
| | 6 | PERIPHERAL STATUS — SLN & TRK SW P | BG |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — CS BUS — SEND 1 | BE |
| | | PROGRAM DISPLAY — 12 | BJ |
| | | PROGRAM CONTROL — 0 | BC |

* CRITICAL, MAJOR, and MINOR lamps will flash at hardware consoles equipped with the AR-761 circuit jack.

**TABLE J (Contd)**

**NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 2 | 7 | PERIPHERAL STATUS — SLN & TRK SW S | BG |
|  |  | PROCESSOR STATUS — CENTRAL CONTROL 1 — CS BUS — RCV 1 | BE |
|  |  | PROGRAM DISPLAY — 13 | BJ |
|  |  | PROGRAM CONTROL — 1 | BC |
|  | 8 | SYSTEM STATUS — DISJN | BE |
|  |  | PERIPHERAL STATUS — JUNCTOR P | BG |
|  |  | PROGRAM DISPLAY — 14 | BJ |
|  |  | PROGRAM CONTROL — 2 | BC |
|  | 9 | SYSTEM STATUS — MULT TBL | BE |
|  |  | PERIPHERAL STATUS — JUNCTOR S | BG |
|  |  | PROGRAM DISPLAY — 15 | BJ |
|  |  | PROGRAM CONTROL — 3 | BC |
|  | 10 | SYSTEM ALARMS — MISCELLANEOUS — A | BE |
|  |  | PERIPHERAL STATUS — TRUNKS P | BG |
|  |  | PROGRAM DISPLAY — 16 | BJ |
|  |  | PROGRAM CONTROL — 4 | BC |
|  | 11 | SYSTEM ALARMS — MISCELLANEOUS — B | BE |
|  |  | PERIPHERAL STATUS — TRUNKS S | BG |
|  |  | PROGRAM DISPLAY — 17 | BJ |
|  |  | PROGRAM CONTROL — 5 | BC |
|  | 12 | SYSTEM ALARMS — MISCELLANEOUS — C | BE |
|  |  | PERIPHERAL STATUS — MASTER SCAN P | BG |
|  |  | PROGRAM DISPLAY — 18 | BJ |
|  |  | PROGRAM CONTROL — 6 | BC |
|  | 13 | SYSTEM ALARMS — MISCELLANEOUS — D | BE |
|  |  | PERIPHERAL STATUS — MASTER SCAN S | BG |
|  |  | PROGRAM DISPLAY — 19 | BJ |
|  |  | PROGRAM CONTROL — 7 | BC |

**TABLE J (Contd)**

**NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP-17 LOCATION |
|---|---|---|---|
| 2 | 14 | SYSTEM ALARMS — MISCELLANEOUS — E | BE |
| | | PERIPHERAL STATUS — CPD P | BG |
| | | PROGRAM DISPLAY — 20 | BJ |
| | | PROGRAM CONTROL — 8 | BC |
| | 15 | SYSTEM ALARMS — MISCELLANEOUS — F | BE |
| | | PERIPHERAL STATUS — CPD S | BG |
| | | PROGRAM DISPLAY — 21 | BJ |
| | | PROGRAM CONTROL — 9 | BC |
| | 16* | PERIPHERAL STATUS — RING & TONE P | BG |
| | | PROGRAM DISPLAY — 22 | BJ |
| | | PROGRAM CONTROL — 10 | BC |
| | 17* | PERIPHERAL STATUS — RING & TONE S | BG |
| | | PROGRAM DISPLAY — 23 | BJ |
| | | PROGRAM CONTROL — 11 | BC |
| 3 | 2 | SYSTEM STATUS — EMER MAN SRV (INDICATOR) | BJ |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — OFF LINE | BF |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — RECEIVERS — CTT | BH |
| | | TRAFFIC CONTROL — EMER MAN SRV | BJ |
| | | PROGRAM CONTROL — 12 | BC |
| | 3 | SYSTEM STATUS — OG LOAD CONT | BJ |
| | | PROCESSOR STATUS — CENTRAL CONTROL 0 — PWR | BF |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — RECEIVERS — CDP | BH |
| | | PROGRAM CONTROL — 13 | BC |
| | 4 | PROCESSOR STATUS — CENTRAL CONTROL 0 — TBL | BF |
| | | SYSTEM INDICATORS — CC OVLD | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — RECEIVERS — MF | BH |
| | | PROGRAM CONTROL — 14 | BC |

* CRITICAL, MAJOR, and MINOR lamps will flash at hardware consoles equipped with the AR-761 circuit jack.

TABLE J (Contd)

NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 3 | 5 | PROCESSOR STATUS — CENTRAL CONTROL 0 — ACT | BF |
| | | SYSTEM INDICATORS — RCVR OVLD | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — RECEIVERS — RP | BH |
| | | HARDWARE CONFIGURATION — CO ACT | BF |
| | | PROGRAM CONTROL — 15 | BC |
| | 6 | PROCESSOR STATUS — CENTRAL CONTROL 1 — OFF LINE | BF |
| | | SYSTEM INDICATORS — LLC ENAB | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — RECEIVERS — TDP | BH |
| | | PROGRAM CONTROL — 16 | BC |
| | 7 | PROCESSOR STATUS — CENTRAL CONTROL 1 — PWR | BF |
| | | SYSTEM INDICATORS — DT DEL | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — TRANSMITTERS — MF | BH |
| | | PROGRAM CONTROL — 17 | BC |
| | 8 | SYSTEM STATUS — INC LOAD CONT | BJ |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — TBL | BF |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — TRANSMITTERS — DP | BH |
| | | PROGRAM CONTROL — 18 | BC |
| | 9 | PROCESSOR STATUS — CC BUS POWER — PS BUS 0 | BJ |
| | | PROCESSOR STATUS — CENTRAL CONTROL 1 — ACT | BF |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — TRANSMITTERS — RP | BH |
| | | HARDWARE CONFIGURATION — PS0 PWR ON | BJ |
| | | HARDWARE CONFIGURATION — CC1 ACT | BF |
| | | PROGRAM CONTROL — 19 | BC |
| | 10 | PROCESSOR STATUS — SIGNAL PROC 0 — TBL | BF |
| | | PROCESSOR STATUS — CC BUS POWER — PS BUS 1 | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — REGISTERS — ORIG | BH |
| | | HARDWARE CONFIGURATION — PSB1 PWR ON | BJ |
| | | PROGRAM CONTROL — 20 | BC |

**TABLE J (Contd)**

**NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 3 | 11 | PROCESSOR STATUS — SIGNAL PROC 0 — PWR | BF |
| | | PROCESSOR STATUS — CC BUS POWER — CS BUS 0 | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — REGISTERS — RING | BH |
| | | HARDWARE CONFIGURATION — CSB0 PWR ON | BJ |
| | | PROGRAM CONTROL — 21 | BC |
| | 12 | PROCESSOR STATUS — SIGNAL PROC 0 — STOP | BF |
| | | PROCESSOR STATUS — CC BUS POWER — CS BUS 1 | BJ |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — REGISTERS — DISC | BH |
| | | HARDWARE CONFIGURATION — CSB1 PWR ON | BJ |
| | | HARDWARE CONFIGURATION — SP0 STOP | BF |
| | | PROGRAM CONTROL — 22 | BC |
| | 13 | SYSTEM ALARMS — TTY — LOC | BJ |
| | | PROCESSOR STATUS — SIGNAL PROC 1 — TBL | BF |
| | | SYSTEM INDICATORS — QUEUES ACTIVE — REGISTERS — AMA | BH |
| | 14 | SYSTEM ALARMS — TTY — REM | BJ |
| | | PROCESSOR STATUS — SIGNAL PROC 1 — PWR | BF |
| | | SYSTEM INDICATORS — JOBS OMITTED DUE TO OVLD — RVFY | BH |
| | 15 | PROCESSOR STATUS — SIGNAL PROC 1 — STOP | BF |
| | | SYSTEM INDICATORS — JOBS OMITTED DUE TO OVLD — FCG | BH |
| | | HARDWARE CONFIGURATION — SP1 STOP | BF |
| | | PROGRAM INTERRUPT CONTROL — ENAB | BC |
| | 16 | SYSTEM INDICATORS — JOBS OMITTED DUE TO OVLD — BLK RTY | BH |
| | | PROGRAM INTERRUPT CONTROL — BOTH | BF |
| | | HARDWARE CONFIGURATION — CC0 SEL ACT | BC |
| | 17 | TELEMETRY — REM PWR OFF | BH |
| | | HARDWARE CONFIGURATION — CC1 SEL ACT | BC |
| | | FUNC DATA | BF |
| 4 | 2 | PROCESSOR STATUS — CALL STORES — CC P | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — 30+ | BH |
| | | PROGRAM INTERRUPT CONTROL — A | BD |

**TABLE J (Contd)**

**NO. 1 ESS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 4 | 3 | PROCESSOR STATUS — CALL STORES — CC S | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — 15-30 | BH |
| | | PROGRAM INTERRUPT CONTROL — B | BD |
| | 4 | PROCESSOR STATUS — CALL STORES — SP P | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — 7.5-15 | BH |
| | | PROGRAM INTERRUPT CONTROL — C | BD |
| | 5 | PROCESSOR STATUS — CALL STORES — SP S | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — 3.8-7.5 | BH |
| | | PROGRAM INTERRUPT CONTROL — D | BD |
| | 6 | PROCESSOR STATUS — PROGRAM STORES MARKED IN TROUBLE — 0 | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — 1.9-3.8 | BH |
| | | PROGRAM INTERRUPT CONTROL — E | BD |
| | 7 | PROCESSOR STATUS — PROGRAM STORES MARKED IN TROUBLE — 1 | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — .94-1.9 | BH |
| | | PROGRAM INTERRUPT CONTROL — F | BD |
| | 8 | PROCESSOR STATUS — PROGRAM STORES MARKED IN TROUBLE — 2 | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — .47-.94 | BH |
| | | PROGRAM INTERRUPT CONTROL — CLR EX | BD |
| | 9 | PROCESSOR STATUS — PROGRAM STORES MARKED IN TROUBLE — 3 | BF |
| | | SYSTEM INDICATORS — E-E RATE KC/15 MIN — -.47 | BH |
| | | HARDWARE CONFIGURATION — STOP SP 0 | BD |
| | 10 | PROCESSOR STATUS — PROGRAM STORES MARKED IN TROUBLE — 4 | BF |
| | | PROGRAM DISPLAY — 0 | BH |
| | | HARDWARE CONFIGURATION — STOP SP 1 | BD |

**TABLE J (Contd)**

**NO. 1 ESS – C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|--------------------------------|----------------|
| 4 | 11 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 5 | BF |
|   |    | PROGRAM DISPLAY – 1 | BH |
|   |    | HARDWARE CONFIGURATION – PSB 0 OFF | BD |
|   | 12 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 6 | BF |
|   |    | PROGRAM DISPLAY – 2 | BH |
|   |    | HARDWARE CONFIGURATION – PSB 1 OFF | BD |
|   | 13 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 7 | BF |
|   |    | PROGRAM DISPLAY – 3 | BH |
|   |    | HARDWARE CONFIGURATION – CSB 0 OFF | BD |
|   | 14 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 8 | BF |
|   |    | PROGRAM DISPLAY – 4 | BH |
|   |    | HARDWARE CONFIGURATION – CSB 1 OFF | BD |
|   | 15 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 9 | BF |
|   |    | PROGRAM DISPLAY – 5 | BH |
|   |    | HARDWARE CONFIGURATION – SET MAN | BD |
|   | 16 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 10 | BF |
|   |    | PROGRAM DISPLAY – 6 | BH |
|   |    | CO ALM RLS (KEY) | BD |
|   | 17 | PROCESSOR STATUS – PROGRAM STORES MARKED IN TROUBLE – 11 | BF |
|   |    | PROGRAM DISPLAY – 7 | BH |

TABLE K

NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 1 | 2 | SYSTEM STATUS — SERVICE LOSS | CF |
| | | MISCELLANEOUS — COML PWR | CJ |
| | 3 | CRITICAL | CD |
| | | MISCELLANEOUS — A | CJ |
| | 4 | MAJOR | CD |
| | | SYSTEM STATUS — AUTO TEST INHIBIT | CG |
| | | MISCELLANEOUS — B | CJ |
| | 5 | MINOR | CD |
| | | SYSTEM STATUS — ALARM TRANSFERRED | CG |
| | | MISCELLANEOUS — C | CJ |
| | 6 | SYSTEM STATUS — FUSE ALARM | CG |
| | | MISCELLANEOUS — D | CJ |
| | 7 | SYSTEM STATUS — MAINTENANCE CENTER — INTERRUPT DISABLE | CD |
| | | STORE MARGIN TEST — PROGRAM STORE | CG |
| | | MISCELLANEOUS — E | CJ |
| | 8 | STORE MARGIN TEST — CALL STORE | CG |
| | | MISCELLANEOUS — F | CJ |
| | 9 | POWER CONTROL — TEST MODE REVERSAL ENABLE | CG |
| | 10 | POWER CONTROL — CONTROL UNIT SWITCH INHIBIT | CG |
| | 11 | SYSTEM STATUS — CONTROL UNIT 0 — STANDBY | CG |
| | 12 | SYSTEM STATUS — CONTROL UNIT 0 — OUT OF SERVICE | CG |
| | 14 | SYSTEM STATUS — MAINTENANCE CENTER — OUT OF SERVICE | CG |
| | 15 | SYSTEM STATUS — MAINTENANCE CENTER — MANUAL | CG |
| | | SYSTEM STATUS — MTCE FORCED | CJ |
| | 16 | SYSTEM STATUS — CONTROL UNIT 1 — OUT OF SERVICE | CG |
| | | SYSTEM STATUS — SCCS FORCED | CJ |
| | 17 | SYSTEM STATUS — CONTROL UNIT 1 — STANDBY | CG |
| | | SYSTEM STATUS — SERVICE LOSS | CJ |

**TABLE K (Contd)**

**NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 2 | 2 | COMPARATOR INPUT SWITCHES — 0 | CD |
| | | SYSTEM STATUS — NET/FI | CG |
| | 3 | COMPARATOR INPUT SWITCHES — 1 | CD |
| | | DISPLAY BUFFER — CLEAR* | CF |
| | | SYSTEM STATUS — SCAN/MS | CG |
| | 4 | COMPARATOR INPUT SWITCHES — 2 | CD |
| | | MAINTENANCE CENTER FUNCTIONS — SYS RESER & CLR* | CF |
| | | SYSTEM STATUS — AMA/CN | CG |
| | 5 | COMPARATOR — INPUT SWITCHES — 3 | CD |
| | | TEST STATUS — PF (INDICATOR PASS ALSO) | CF |
| | | SYSTEM STATUS — MISC/MP | CG |
| | 6 | COMPARATOR INPUT SWITCHES — 4 | CD |
| | | MAINTENANCE CENTER MODE — MAN.* | CF |
| | | SYSTEM STATUS — BLDG/AN | CG |
| | 7 | COMPARATOR INPUT SWITCHES — 5 | CD |
| | | MAINTENANCE CENTER MODE — NORM* | CF |
| | | SYSTEM STATUS — CKT LIM/TK | CG |
| | 8 | COMPARATOR INPUT SWITCHES — 6 | CD |
| | | AUXILIARY FUNCTIONS — PROG EXEC* | CF |
| | | SYSTEM STATUS — TRAFFIC/TQ | CG |
| | 9 | COMPARATOR INPUT SWITCHES — 7 | CD |
| | | AUXILIARY FUNCTIONS — INHIBIT AUTO DISPLAY* | CF |
| | | SYSTEM STATUS — DSP | CG |
| | 10 | COMPARATOR INPUT SWITCHES — 8 | CD |
| | | EMERGENCY ACTION — READY | CF |
| | | SYSTEM STATUS — TOLL NET/MI | CG |
| | 11 | COMPARATOR INPUT SWITCHES — 9 | CD |
| | | EMERGENCY ACTION — GO | CF |
| | | SYSTEM STATUS — OVLD | CG |

*Will light both key and indicator

**TABLE K (Contd)**

**NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|:---:|:---:|---|:---:|
| 2 | 12 | COMPARATOR INPUT SWITCHES — 10 | CD |
|  |  | EMERGENCY ACTION — TTY INIT | CF |
|  |  | SYSTEM STATUS — XOS | CG |
|  | 13 | COMPARATOR INPUT SWITCHES — 11 | CD |
|  |  | SYSTEM STATUS — XPER | CG |
|  | 14 | COMPARATOR INPUT SWITCHES — 12 | CD |
|  |  | SYSTEM STATUS — XAMB | CG |
|  |  | SYSTEM STATUS — CONTROL UNIT 0 — ACTIVE | CJ |
|  | 15 | COMPARATOR INPUT SWITCHES — 13 | CD |
|  |  | DISPLAY BUFFER — 0 | CG |
|  |  | SYSTEM STATUS — CONTROL UNIT 1 — ACTIVE | CJ |
|  | 16 | COMPARATOR INPUT SWITCHES — 14 | CD |
|  |  | AUXILIARY FUNCTIONS — LAMP PWR | CJ |
|  | 17 | COMPARATOR INPUT SWITCHES — 15 | CD |
|  |  | AUXILIARY FUNCTIONS — LAMP TEST | CJ |
| 3 | 2 | COMPARATOR INPUT SWITCHES — 16 | CE |
|  |  | SYSTEM STATUS — SERVICE LOSS | CF |
|  |  | DISPLAY BUFFER — 1 | CH |
|  | 3 | COMPARATOR INPUT SWITCHES — 17 | CE |
|  |  | TELEMETRY — REM PWR OFF | CF |
|  |  | DISPLAY BUFFER — 2 | CH |
|  | 4 | COMPARATOR INPUT SWITCHES — 18 | CE |
|  |  | DISPLAY BUFFER — 3 | CH |
|  |  | EMERGENCY ACTION — POWER |  |
|  | 5 | COMPARATOR INPUT SWITCHES — 19 | CE |
|  |  | MAINTENANCE CENTER FUNCTIONS — COMPARE PA-CIS* | CF |
|  |  | DISPLAY BUFFER — 4 | CH |
|  | 6 | COMPARATOR INPUT SWITCHES — 20 | CE |
|  |  | MAINTENANCE CENTER FUNCTIONS — COMPARE CSA-CIS* | CF |
|  |  | DISPLAY BUFFER — 5 | CH |

*Will light both key and indicator

**TABLE K (Contd)**

**NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 3 | 7 | COMPARATOR INPUT SWITCHES — 21 | CE |
| | | MAINTENANCE CENTER FUNCTIONS — DYN PS READ* | CF |
| | | DISPLAY BUFFER — 6 | CH |
| | 8 | EMERGENCY ACTION — ENABLE | CE |
| | | MAINTENANCE CENTER FUNCTIONS — DYN CS READ* | CF |
| | | DISPLAY BUFFER — 7 | CH |
| | 9 | EMERGENCY ACTION — STABLE | CE |
| | | SYSTEM STATUS — LOCK CU 0 ACT* | CF |
| | | DISPLAY BUFFER — 8 | CH |
| | 10 | EMERGENCY ACTION — REC CHG/TAPE | CE |
| | | SYSTEM STATUS — LOCK CU 1 ACT* | CF |
| | | DISPLAY BUFFER — 9 | CH |
| | 11 | EMERGENCY ACTION — LINE TRFR | CE |
| | | DISPLAY BUFFER — 10 | CH |
| | 12 | DISPLAY BUFFER — 11 | CH |
| | 13 | DISPLAY BUFFER — 12 | CH |
| | | SYSTEM STATUS — CONTROL UNIT 0 — RUN | CK |
| | 14 | DISPLAY BUFFER — 13 | CH |
| | | SYSTEM STATUS — CONTROL UNIT 1 — RUN | CK |
| | 15 | DISPLAY BUFFER — 14 | CH |
| | | TTY CONTROL STATUS — PWR OFF — TA | CK |
| | 16 | DISPLAY BUFFER — 15 | CH |
| | | TTY CONTROL STATUS — PWR OFF — TB | CK |
| | 17 | DISPLAY BUFFER — 16 | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D2 | CK |
| 4 | 2 | TTY CONTROL STATUS — DATA SET DISCONNECT — TRI ON* | CE |
| | | DISPLAY BUFFER — 17 | CH |
| | 3 | TTY CONTROL STATUS — DATA SET DISCONNECT — REM MTCE* | CE |
| | | DISPLAY BUFFER — 18 | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D3 | CK |

*Will light both key and indicator

TABLE K (Contd)

NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 4 | 4 | TTY CONTROL — LOC MTCE* | CE |
| | | DISPLAY BUFFER — 19 | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D4 | CK |
| | 5 | DISPLAY BUFFER — 20 | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D5 | CK |
| | 6 | DISPLAY BUFFER — 21 | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D6 | CK |
| | 7 | MAINTENANCE CENTER FUNCTIONS — COMPARE PSB — CIS | CH |
| | | TTY CONTROL STATUS — DATA SET DISCONNECT — D7 | CK |
| | 8 | MAINTENANCE CENTER FUNCTIONS — REPEAT EXECUTE ONE WORD | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T2 | CK |
| | 9 | MAINTENANCE CENTER MODE — ON-LINE INTERRUPT* | CE |
| | | MAINTENANCE CENTER MODE — ON-LINE INIT* | CE |
| | | MAINTENANCE CENTER FUNCTIONS — EXECUTE ONE WORD NO ADV | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T3 | CK |
| | 10 | TELEMETRY — ALL LAMPS ON | CE |
| | | MAINTENANCE CENTER FUNCTIONS — EXECUTE ONE WORD & ADV | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T4 | CK |
| | 11 | TELEMETRY — ALL LAMPS OFF | CE |
| | | MAINTENANCE CENTER FUNCTIONS — COMPARE EXT — CIS | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T5 | CK |
| | 12 | POWER CONTROL — CU 0 ACT | CE |
| | | OFF-LINE LOAD & DISPLAY — LOAD | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T6 | CK |
| | 13 | POWER CONTROL — CU 1 ACT | CE |
| | | OFF-LINE LOAD & DISPLAY — DISPLAY | CH |
| | | TTY CONTROL STATUS — TTY DISCONNECT — T7* | CK |

*Will light both key and indicator

**TABLE K (Contd)**

**NO. 2 ESS/AIS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|--------------------------------|----------------|
| 4 | 14 | TTY CONTROL — RESET | CE |
|  |  | TEST STATUS — FAIL | CH |
|  |  | POWER CONTROL — MTCE CENTER CIRCUIT | CK |
|  | 15 | MAINTENANCE CENTER MODE — OFF-LINE STOP | CH |
|  |  | POWER CONTROL — OFF-LINE CONTROL UNIT | CK |
|  | 16 | AUXILIARY FUNCTIONS — OFF-LINE STOPPED MANUAL | CH |
|  |  | POWER CONTROL — SEQUENCE FAILURE — BUS A | CK |
|  | 17 | SYSTEM STATUS — SERVICE LOSS | CH |
|  |  | POWER CONTROL — SEQUENCE FAILURE — BUS B | CK |

## TABLE L

### TSPS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 1 | 2 | EMERGENCY RECOVERY — PROCESSOR 0 — 13 | CJ |
|  | 3 | CRITICAL | CD |
|  |  | MISCELLANEOUS — COML PWR | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 12 | CJ |
|  | 4 | MAJOR | CD |
|  |  | SYSTEM STATUS — DISJOIN | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 11 | CJ |
|  |  | HARDWARE CONFIGURATION — DISJOIN | CG |
|  | 5 | MINOR | CD |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 10 | CJ |
|  |  | PROGRAM CONTROL — FUNC DATA | CG |
|  | 6 | TTY — LOC | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 9 | CJ |
|  | 7 | TTY — REM | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 8 | CJ |
|  | 8 | MISCELLANEOUS — A | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 7 | CJ |
|  | 9 | MISCELLANEOUS — B | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 6 | CJ |
|  | 10 | MISCELLANEOUS — C | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 5 | CJ |
|  | 11 | MISCELLANEOUS — D | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 4 | CJ |
|  | 12 | MISCELLANEOUS — E | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 3 | CJ |
|  | 13 | MISCELLANEOUS — F | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 2 | CJ |
|  | 14 | SYSTEM STATUS — RPTD T OUT | CG |
|  |  | EMERGENCY RECOVERY — PROCESSOR 0 — 1 | CJ |

**TABLE L (Contd)**

**TPSP — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 1 | 15 | SYSTEM STATUS — MULT TBL | CG |
|   |    | EMERGENCY RECOVERY — PROCESSOR 0 — 0 | CJ |
|   | 16 | SYSTEM STATUS — SYSTEM MONITOR | CG |
|   |    | EMERGENCY RECOVERY — PROCESSOR 1 — 19 | CJ |
|   | 17 | EMERGENCY RECOVERY — PROCESSOR 1 — 18 | CJ |
|   |    | TELEMETRY — REM PWR OFF | CG |
| 2 | 2 | SYSTEM STATUS — DIAGS IN PROG | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 17 | CJ |
|   |   | SUBSYSTEM STATUS — 6 | CL |
|   |   | HARDWARE CONFIGURATION — EA DIS T OUT | CD |
|   | 3 | SYSTEM STATUS — CD OFF NORM | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 16 | CJ |
|   |   | SUBSYSTEM STATUS — 7 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 0 — 4 | CF |
|   |   | PROGRAM CONTROL — BLK | CD |
|   | 4 | SYSTEM STATUS — CO ALM INHB | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 15 | CJ |
|   |   | SUBSYSTEM STATUS — 8 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 0 — 5 | CF |
|   |   | PROGRAM CONTROL — 0 | CD |
|   | 5 | SPC STATUS — PROCESSOR 0 — STOP | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 14 | CJ |
|   |   | SUBSYSTEM STATUS — 9 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 0 — 6 | CF |
|   |   | PROGRAM CONTROL — 1 | CD |
|   | 6 | SPC STATUS — PROCESSOR — CLK | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 13 | CJ |
|   |   | SUBSYSTEM STATUS — 10 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 0 — 7 | CF |
|   |   | PROGRAM CONTROL — 2 | CD |

**TABLE L (Contd)**

**TSPS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 2 | 7 | SPC STATUS — PROCESSOR 0 — TBL | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 12 | CJ |
|   |   | SUBSYSTEM STATUS — 11 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 0 | CF |
|   |   | PROGRAM CONTROL — 3 | CD |
|   | 8 | SPC STATUS — PROCESSOR 0 — OFF LINE | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 11 | CJ |
|   |   | SUBSYSTEM STATUS — 12 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 1 | CF |
|   |   | PROGRAM CONTROL — 4 | CD |
|   | 9 | SPC STATUS — PROCESSOR 0 — ACT | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 10 | CJ |
|   |   | SUBSYSTEM STATUS — 13 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 2 | CF |
|   |   | PROGRAM CONTROL — 5 | CD |
|   | 10 | SPC STATUS — PROCESSOR 0 — PWR | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 9 | CJ |
|   |   | SUBSYSTEM STATUS — 14 | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 3 | CF |
|   |   | PROGRAM CONTROL — 6 | CD |
|   | 11 | SPC STATUS — PROCESSOR 0 — STORE BUS — SEND 0 | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 8 | CJ |
|   |   | OFF NORMAL MAJOR — PST SET | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 4 | CF |
|   |   | PROGRAM CONTROL — 7 | CD |
|   | 12 | SPC STATUS — PROCESSOR 0 — STORE BUS — RCV 0 | CG |
|   |   | EMERGENCY RECOVERY — PROCESSOR 1 — 7 | CJ |
|   |   | OFF NORMAL MAJOR — MNT OFF | CL |
|   |   | HARDWARE CONFIGURATION — BUS 1 — 5 | CF |
|   |   | PROGRAM CONTROL — 8 | CD |

**TABLE L (Contd)**

**TSPS – C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 2 | 13 | SPC STATUS – PROCESSOR 0 – STORE BUS – SEND 1 | CG |
| | | EMERGENCY RECOVERY – PROCESSOR 1 – 6 | CJ |
| | | OFF NORMAL MAJOR – FR OFF | CL |
| | | HARDWARE CONFIGURATION – BUS 1 – 6 | CF |
| | | PROGRAM CONTROL – 9 | CD |
| | 14 | SPC STATUS – PROCESSOR 0 – STORE BUS – RCV 1 | CG |
| | | EMERGENCY RECOVERY – PROCESSOR 1 – 5 | CJ |
| | | OFF NORMAL MAJOR – CLK OFF | CL |
| | | HARDWARE CONFIGURATION – BUS 1 – 7 | CF |
| | | PROGRAM CONTROL – 10 | CD |
| | 15 | SPC STATUS – PROCESSOR 1 – STOP | CG |
| | | EMERGENCY RECOVERY – PROCESSOR 1 – 4 | CJ |
| | | OFF NORMAL MAJOR – INIT RESP | CL |
| | | HARDWARE CONFIGURATION – STATE CONT | CF |
| | | PROGRAM CONTROL – 11 | CD |
| | 16 | CRITICAL – MAJOR – MINOR MUST FLASH | |
| | | EMERGENCY RECOVERY – PROCESSOR 1 – 3 | CJ |
| | | OFF NORMAL MINOR – PRT INH | CL |
| | | HARDWARE CONFIGURATION – SET MANUAL | CF |
| | | PROGRAM CONTROL – 12 | CD |
| | 17 | CIRTICAL – MAJOR – MINOR MUST FLASH | |
| | | EMERGENCY RECOVERY – PROCESSOR 1 – 2 | CJ |
| | | OFF NORMAL MINOR – ABN TASK | CL |
| | | HARDWARE CONFIGURATION – SC ANS BUS 0 SELECT | CF |
| | | PROGRAM CONTROL – 13 | CD |
| 3 | 2 | EMERGENCY RECOVERY – PROCESSOR 1 – 1 | CK |
| | | SPC STATUS – PROCESSOR 1 – CLK | CH |
| | | OFF NORMAL MINOR – AMA SMP | CL |
| | | HARDWARE CONFIGURATION – SC ANS BUS 1 SELECT | CF |
| | | PROGRAM CONTROL – 14 | CE |

**TABLE L (Contd)**

**TSPS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 3 | 3 | SPC STATUS — PROCESSOR 1 — TBL | CH |
| | | EMERGENCY RECOVERY — PROCESSOR 1 — 0 | CK |
| | | OFF NORMAL MINOR — TFC GEN | CL |
| | | HARDWARE CONFIGURATION — INH ERROR DET | CF |
| | | PROGRAM CONTROL — 15 | CE |
| | 4 | SPC STATUS — PROCESSOR 1 — OFF LINE | CH |
| | | TSPS PERIPHERAL STATUS — TRUNK LINE — 0 | CK |
| | | OFF NORMAL MINOR — GROW ACT | CL |
| | | PROGRAM CONTROL — 16 | CE |
| | | CD LAMP TEST | CF |
| | 5 | SPC STATUS — PROCESSOR 1 — ACT | CH |
| | | TSPS PERIPHERAL STATUS — TRUNK LINK — S | CK |
| | | PROGRAM DISPLAY — PTD | CL |
| | | PROGRAM CONTROL — 17 | CE |
| | | HARDWARE CONFIGURATION — PROC 1 ACTIVE | |
| | 6 | SPC STATUS — PROCESSOR 1 — PWR | CH |
| | | TSPS PERIPHERAL STATUS — POSITION LINK — P | CK |
| | | PROGRAM DISPLAY — 19 | CL |
| | | PROCESSOR POWER — PROC 0 — POWER OFF | CF |
| | | PROGRAM CONTROL — 18 | CE |
| | 7 | SPC STATUS — PROCESSOR 1 — STORE BUS — SEND 0 | CH |
| | | TSPS PERIPHERAL STATUS — POSITION LINK — S | CK |
| | | PROGRAM DISPLAY — 18 | CL |
| | | PROCESSOR POWER — PROC 0 — 005 | CF |
| | | PROGRAM CONTROL — 19 | CE |
| | 8 | SPC STATUS — PROCESSOR 1 — STORE BUS — RCV 0 | CH |
| | | TSPS PERIPHERAL STATUS — MASTER SCAN — P | CK |
| | | PROGRAM DISPLAY — 17 | CL |
| | | PROCESSOR POWER — PROC 0 — OFF NORMAL | CF |

**TABLE L (Contd)**

**TSPS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|------|--------|-------------------------------|----------------|
| 3 | 9 | SPC STATUS — PROCESSOR 1 — STORE BUS — SEND 1 | CH |
|   |   | TSPS PERIPHERAL STATUS — MASTER SCAN — S | CK |
|   |   | PROGRAM DISPLAY — 16 | CL |
|   |   | PROCESSOR POWER — PROC 1 — POWER OFF | CF |
|   | 10 | SPC STATUS — PROCESSOR 1 — STORE BUS — RCV 1 | CH |
|   |   | TSPS PERIPHERAL STATUS —COMM BUS TRNSL — A | CK |
|   |   | PROGRAM DISPLAY — 15 | CL |
|   |   | PROCESSOR POWER — PROC 1 — 005 | CF |
|   |   | PROCESSOR POWER — PROC 0 — POWER OFF | CE |
|   | 11 | SPC STATUS — STORE — P | CH |
|   |   | TSPS PERIPHERAL STATUS — COMM BUS TRNSL — B | CK |
|   |   | PROGRAM DISPLAY — 14 | CL |
|   |   | PROCESSOR POWER — PROC 1 — OFF NORMAL | CF |
|   |   | PROCESSOR POWER — PROC 0 — POWER ON | CE |
|   | 12 | SYSTEM STATUS — CALL PROC RECOV | |
|   |   | SPC STATUS — STORE — S | CH |
|   |   | TSPS PERIPHERAL STATUS — AMA — A | CK |
|   |   | PROGRAM DISPLAY — 13 | CL |
|   |   | EMERGENCY ACTION — CALL PROC RECOV | CF |
|   |   | PROCESSOR POWER — PROC 1 — POWER OFF | CE |
|   | 13 | SPC STATUS — CPD BUS PWR — 0 | CH |
|   |   | TSPS PERIPHERAL STATUS — AMA — B | CK |
|   |   | PROGRAM DISPLAY — 12 | CL |
|   |   | PROCESSOR POWER — PROC 1 — POWER ON | CE |
|   | 14 | SPC STATUS — CPD BUS PWR — 1 | CH |
|   |   | TSPS PERIPHERAL STATUS — TIME OF DAY — A | CK |
|   |   | PROGRAM DISPLAY — 11 | CL |
|   |   | EMERGENCY ACTION — ENAB | CE |
|   |   |   | CH |

**TABLE L (Contd)**

**TSPS — C&D CENTRAL GROUP REPORT COMMANDS**

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 3 | 15 | SPC STATUS — CPD — P | CH |
|  |  | TSPS PERIPHERAL STATUS — TIME OF DAY — B | CK |
|  |  | PROGRAM DISPLAY — 10 | CL |
|  |  | EMERGENCY ACTION — MNA | CE |
|  |  | HARDWARE CONFIGURATION — INV | CF |
|  | 16 | SPC STATUS — CPD — S | CH |
|  |  | TSPS PERIPHERAL STATUS — UNIV TRUNK — P | CK |
|  |  | PROGRAM DISPLAY — 9 | CL |
|  |  | EMERGENCY ACTION — MJA | CE |
|  |  | HARDWARE CONFIGURATION — BUS 0 ACTIVE | CF |
|  | 17 | SPC STATUS — STORE BUS PWR — 0 | CH |
|  |  | TSPS PERIPHERAL STATUS — UNIV TRUNK — S | CK |
|  |  | PROGRAM DISPLAY — 8 | CL |
|  |  | EMERGENCY ACTION — SIA | CE |
|  |  | HARDWARE CONFIGURATION — BUS 1 ACTIVE | CF |
| 4 | 2 | SPC STATUS — STORE BUS PWR — 1 | CH |
|  |  | TSPS PERIPHERAL STATUS — SOG — A | CK |
|  |  | PROGRAM DISPLAY — 7 | CM |
|  |  | EMERGENCY ACTION — SIB | CE |
|  | 3 | SPC STATUS — SCAN ANS BUS ACT — 0 | CH |
|  |  | TSPS PERIPHERAL STATUS — SOG — B | CK |
|  |  | PROGRAM DISPLAY — 6 | CM |
|  |  | EMERGENCY ACTION — AA | CE |
|  |  | HARDWARE COMFIGURATION — SC ANS BUS 0 ACTIVE | CH |
|  | 4 | SPC STATUS — SCAN ANS BUS ACT — 1 | CH |
|  |  | TSPS PERIPHERAL STATUS — MISC — P | CK |
|  |  | PROGRAM DISPLAY — 5 | CM |
|  |  | EMERGENCY ACTION — AB | CE |
|  |  | HARDWARE CONFIGURATION — SC ANS BUS 1 ACTIVE | CH |

TABLE L (Contd)

TSPS – C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 4 | 5 | SPC STATUS – MSC – 0 – P | CH |
| | | TSPS PERIPHERAL STATUS – MISC – S | CK |
| | | PROGRAM DISPLAY – 4 | CM |
| | | EMERGENCY ACTION – AC | CE |
| | 6 | SPC STATUS – MSC – 0 – S | CH |
| | | CIRCUIT STATUS – UNIV TRKS | CK |
| | | PROGRAM DISPLAY – 3 | CM |
| | | EMERGENCY ACTION – AD | CE |
| | 7 | SPC STATUS – PTU – P | CH |
| | | CIRCUIT STATUS – SRV CKTS | CK |
| | | PROGRAM DISPLAY – 2 | CM |
| | | EMERGENCY ACTION – AE | CE |
| | 8 | SPC STATUS – PUA BUS POWER – 0 | CH |
| | | CIRCUIT STATUS – SPL TRKS | CK |
| | | PROGRAM DISPLAY – 1 | CM |
| | | EMERGENCY ACTION – CLEAR EXEC | CE |
| | 9 | SPC STATUS – PUA BUS POWER – 1 | CH |
| | | TRAFFIC STATUS – OVLD | CK |
| | | PROGRAM DISPLAY – 0 | CM |
| | | HARDWARE CONFIGURATION – PROC 0 SELECT | CE |
| | 10 | SPC STATUS – MSD – P | CH |
| | | CIRCUIT STATUS – POS | CM |
| | | TRAFFIC STATUS – POS Q OVF | CK |
| | | HARDWARE CONFIGURATION – PROC 1 SELECT | CE |
| | 11 | SPC STATUS – MSD – S | CH |
| | | SUBSYSTEM STATUS – M | CK |
| | | HARDWARE CONFIGURATION – BUS 0 SELECT | CE |
| | 12 | EMERGENCY RECOVERY – PROCESSOR 0 – 19 | CH |
| | | SUBSYSTEM STATUS – 0 | CK |
| | | HARDWARE CONFIGURATION – BUS 1 SELECT | CE |

TABLE L (Contd)

TSPS — C&D CENTRAL GROUP REPORT COMMANDS

| WORD | SWITCH | CONSOLE LAMPS AND KEYS LIGHTED | CP 17 LOCATION |
|---|---|---|---|
| 4 | 13 | EMERGENCY RECOVERY — PROCESSOR 0 — 18 | CH |
| | | SUBSYSTEM STATUS — 1 | CK |
| | | HARDWARE CONFIGURATION — BUS 0 — 0 | CE |
| | 14 | EMERGENCY RECOVERY — PROCESSOR 0 — 17 | CH |
| | | SUBSYSTEM STATUS — 2 | CK |
| | | HARDWARE CONFIGURATION — BUS 0 — 1 | CE |
| | 15 | EMERGENCY RECOVERY — PROCESSOR 0 — 16 | CH |
| | | SUBSYSTEM STATUS — 3 | CK |
| | | HARDWARE CONFIGURATION — BUS 0 — 2 | CE |
| | 16 | EMERGENCY RECOVERY — PROCESSOR 0 — 15 | CH |
| | | SUBSYSTEM STATUS — 4 | CK |
| | | HARDWARE CONFIGURATION — BUS 0 — 3 | CE |
| | 17 | CRITICAL — MAJOR — MINOR MUST FLASH | |
| | | EMERGENCY RECOVERY — PROCESSOR 0 — 14 | CH |
| | | SUBSYSTEM STATUS — 5 | CK |

**TABLE M**

**NO. 1 ESS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS)**

| SWITCH NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| HARDWARE CONFIGURATION — EA DIS T OUT | 1 * 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 0 0 0 | BA |
| TRAFFIC CONTROL — ENAB | 1 * 0 0 0 | 1 0 0 0 | 0 0 0 0 0 | 0 0 0 | BA |
| EMER MAN SRV | 1 * 0 0 0 | 0 1 0 0 | 0 0 0 0 0 | 0 0 0 | BA |
| PROGRAM CONTROL — BLK | 1 * 0 0 0 | 1 1 0 0 | 0 0 0 0 0 | 0 0 0 | BA |
| 0 | 1 * 0 0 0 | 0 0 1 0 | 0 0 0 0 0 | 0 0 0 | BA |
| 1 | 1 * 0 0 0 | 1 0 1 0 | 0 0 0 0 0 | 0 0 0 | BA |
| 2 | 1 * 0 0 0 | 0 1 1 0 | 0 0 0 0 0 | 0 0 0 | BA |
| 3 | 1 * 0 0 0 | 1 1 1 0 | 0 0 0 0 0 | 0 0 0 | BA |
| 4 | 1 * 0 0 0 | 0 0 0 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 5 | 1 * 0 0 0 | 1 0 0 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 6 | 1 * 0 0 0 | 0 1 0 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 7 | 1 * 0 0 0 | 1 1 0 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 8 | 1 * 0 0 0 | 0 0 1 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 9 | 1 * 0 0 0 | 1 0 1 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 10 | 1 * 0 0 0 | 0 1 1 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 11 | 1 * 0 0 0 | 1 1 1 1 | 0 0 0 0 0 | 0 0 0 | BA |
| 12 | 1 * 0 0 0 | 0 0 0 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 13 | 1 * 0 0 0 | 1 0 0 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 14 | 1 * 0 0 0 | 0 1 0 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 15 | 1 * 0 0 0 | 1 1 0 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 16 | 1 * 0 0 0 | 0 0 1 0 | 1 0 0 0 0 | 0 0 0 | BA |

Legend:
  1 — Lamp lighted
  0 — Lamp off
  * — Lamp lighted for operate or off for release

**TABLE M (Contd)**

**NO. 1 ESS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS)**

| SWITCH NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|:---:|:---:|:---:|:---:|:---:|:---:|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| 17 | 1 * 0 0 0 | 1 0 1 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 18 | 1 * 0 0 0 | 0 1 1 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 19 | 1 * 0 0 0 | 1 1 1 0 | 1 0 0 0 0 | 0 0 0 | BA |
| 20 | 1 * 0 0 0 | 0 0 0 1 | 1 0 0 0 0 | 0 0 0 | BA |
| 21 | 1 * 0 0 0 | 1 0 0 1 | 1 0 0 0 0 | 0 0 0 | BA |
| 22 | 1 * 0 0 0 | 0 1 0 1 | 1 0 0 0 0 | 0 0 0 | BA |

Legend:
    1 — Lamp lighted
    0 — Lamp off
    * — Lamp lighted for operate or off for release

**TABLE N**

**TSPS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS)**

| SWITCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| EA DIS T OUT | 1 * 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| BLK | 1 * 0 0 0 | 1 0 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 0 | 1 * 0 0 0 | 0 1 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 1 | 1 * 0 0 0 | 1 1 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 2 | 1 * 0 0 0 | 0 0 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 3 | 1 * 0 0 0 | 1 0 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 4 | 1 * 0 0 0 | 0 1 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 5 | 1 * 0 0 0 | 1 1 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 6 | 1 * 0 0 0 | 0 0 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 7 | 1 * 0 0 0 | 1 0 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 8 | 1 * 0 0 0 | 0 1 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 9 | 1 * 0 0 0 | 1 1 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 10 | 1 * 0 0 0 | 0 0 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 11 | 1 * 0 0 0 | 1 0 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 12 | 1 * 0 0 0 | 0 1 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 13 | 1 * 0 0 0 | 1 1 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 14 | 1 * 0 0 0 | 0 0 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 15 | 1 * 0 0 0 | 1 0 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 16 | 1 * 0 0 0 | 0 1 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 17 | 1 * 0 0 0 | 1 1 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 18 | 1 * 0 0 0 | 0 0 1 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 19 | 1 * 0 0 0 | 1 0 1 0 | 1 0 0 0 0 | 0 0 0 | CA |

Legend:
    1 — Lamp lighted
    0 — Lamp off
    * — Lamp lighted for operate or off for release as specified by test

TABLE O

NO. 2 ESS/AIS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS)

| SWITCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP-21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| COMP. INPUT SWITCHES 0 | 1 * 0 0 0 | 0 0 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 1 | 1 * 0 0 0 | 1 0 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 2 | 1 * 0 0 0 | 0 1 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 3 | 1 * 0 0 0 | 1 1 0 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 4 | 1 * 0 0 0 | 0 0 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 5 | 1 * 0 0 0 | 1 0 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 6 | 1 * 0 0 0 | 0 1 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 7 | 1 * 0 0 0 | 1 1 1 0 | 0 0 0 0 0 | 0 0 0 | CA |
| 8 | 1 * 0 0 0 | 0 0 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 9 | 1 * 0 0 0 | 1 0 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 10 | 1 * 0 0 0 | 0 1 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 11 | 1 * 0 0 0 | 1 1 0 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 12 | 1 * 0 0 0 | 0 0 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 13 | 1 * 0 0 0 | 1 0 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 14 | 1 * 0 0 0 | 0 1 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 15 | 1 * 0 0 0 | 1 1 1 1 | 0 0 0 0 0 | 0 0 0 | CA |
| 16 | 1 * 0 0 0 | 0 0 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 17 | 1 * 0 0 0 | 1 0 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 18 | 1 * 0 0 0 | 0 1 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 19 | 1 * 0 0 0 | 1 1 0 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 20 | 1 * 0 0 0 | 0 0 1 0 | 1 0 0 0 0 | 0 0 0 | CA |
| 21 | 1 * 0 0 0 | 1 0 1 0 | 1 0 0 0 0 | 0 0 0 | CA |

Legend:
1 — Lamp lighted
0 — Lamp off
* — Lamp lighted for operate or off for release as specified by test

**TABLE O (Contd)**

**NO. 2 ESS/AIS — C&D CENTRAL RELAY OUTPUT COMMANDS (LOCKING KEYS)**

| SIWTCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| EMERGENCY ACTION ENABLE | 1 * 0 0 0 | 0 1 1 0 | 1 0 0 0 0 | 0 0 0 | CA |
| STABLE | 1 * 0 0 0 | 1 1 1 0 | 1 0 0 0 0 | 0 0 0 | CA |
| REC CHG TAPE | 1 * 0 0 0 | 0 0 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| LINE TRFR | 1 * 0 0 0 | 1 0 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| POWER | 1 * 0 0 0 | 0 1 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| LOCK CU 0 ACT | 1 * 0 0 0 | 1 1 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| LOCK CU 1 ACT | 1 * 0 0 0 | 0 0 1 1 | 1 0 0 0 0 | 0 0 0 | CA |
| TRI ON | 1 * 0 0 0 | 0 0 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| REM MTCE | 1 * 0 0 0 | 1 0 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| LOC MTCE | 1 * 0 0 0 | 0 1 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| CMPR PA — CIS | 1 * 0 0 0 | 1 1 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| CMPR CSA — CIS | 1 * 0 0 0 | 0 0 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| DYN PS READ | 1 * 0 0 0 | 1 0 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| DYN CS READ | 1 * 0 0 0 | 0 1 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| ON LINE INIT | 1 * 0 0 0 | 1 1 1 0 | 0 1 0 0 0 | 0 0 0 | CB |

Legend:
 1 — Lamp lighted
 0 — Lamp off
 * — Lamp lighted for operate or off for release as specified by test

**TABLE P**

**NO. 1 ESS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS)**

| SWITCH NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| ALL LAMPS OFF | 1 * 0 0 0 | 0 1 1 1 | 1 1 1 1 1 | 1 1 1 | BA |
| ALL LAMPS ON | 1 * 0 0 0 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 | BA |
| PROGRAM INTERRUPT CONTROL —ENAB | 1 * 0 0 0 | 1 0 1 1 | 1 0 0 0 0 | 0 0 0 | BA |
| HARDWARE CONFIGURATION —CC 0 SEL ACT | 1 * 0 0 0 | 0 1 1 1 | 1 0 0 0 0 | 0 0 0 | BA |
| —CC 1 SEL ACT | 1 * 0 0 0 | 1 1 1 1 | 1 0 0 0 0 | 0 0 0 | BA |
| PROGRAM INTERRUPT CONTROL —A | 1 * 0 0 0 | 0 0 0 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —B | 1 * 0 0 0 | 1 0 0 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —C | 1 * 0 0 0 | 0 1 0 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —D | 1 * 0 0 0 | 1 1 0 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —E | 1 * 0 0 0 | 0 0 1 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —F | 1 * 0 0 0 | 1 0 1 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —CLR EX | 1 * 0 0 0 | 0 1 1 0 | 0 1 0 0 0 | 0 0 0 | BB |
| HARDWARE CONFIGURATION — STOP SPO | 1 * 0 0 0 | 1 1 1 0 | 0 1 0 0 0 | 0 0 0 | BB |
| —STOP SP1 | 1 * 0 0 0 | 0 0 0 1 | 0 1 0 0 0 | 0 0 0 | BB |
| —PSB0 PWR OFF | 1 * 0 0 0 | 1 0 0 1 | 0 1 0 0 0 | 0 0 0 | BB |
| —PSB1 PWR OFF | 1 * 0 0 0 | 0 1 0 1 | 0 1 0 0 0 | 0 0 0 | BB |
| —CSB0 PWR OFF | 1 * 0 0 0 | 1 1 0 1 | 0 1 0 0 0 | 0 0 0 | BB |
| —CSB1 PWR OFF | 1 * 0 0 0 | 0 0 1 1 | 0 1 0 0 0 | 0 0 0 | BB |
| —SET MAN | 1 * 0 0 0 | 1 0 1 1 | 0 1 0 0 0 | 0 0 0 | BB |
| CO ALM RLS | 1 * 0 0 0 | 0 1 1 1 | 0 1 0 0 0 | 0 0 0 | BB |

Legend:
   1 — Lamp lighted
   0 — Lamp off
   * — Lamp lighted for operate or off for release

TABLE Q

NO. 2 ESS/AIS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS)

| SWITCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| ALL LAMPS OFF | 1 * 0 0 0 | 0 1 1 1 | 1 1 1 1 1 | 1 1 1 | CB |
| ALL LAMPS ON | 1 * 0 0 0 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 | CB |
| CU 0 ACT | 1 * 0 0 0 | 0 1 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| CU 1 ACT | 1 * 0 0 0 | 1 1 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| RESET | 1 * 0 0 0 | 0 0 1 1 | 0 1 0 0 0 | 0 0 0 | CB |
| CLEAR BUFFER | 1 * 0 0 0 | 1 0 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| SYSTEM RESET & CLEAR | 1 * 0 0 0 | 0 1 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| PF | 1 * 0 0 0 | 1 1 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| MAN. | 1 * 0 0 0 | 0 0 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| NORM | 1 * 0 0 0 | 1 0 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| PROG EXEC | 1 * 0 0 0 | 0 1 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| INHIBIT AUTO DISPLAY | 1 * 0 0 0 | 1 1 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| READY | 1 * 0 0 0 | 0 0 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| GO | 1 * 0 0 0 | 1 0 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| TTY INIT | 1 * 0 0 0 | 0 1 0 1 | 1 1 0 0 0 | 0 0 0 | CB |

Legend:
    1 — Lamp lighted
    0 — Lamp off
    * — Lamp lighted for operate or off for release

TABLE R

TSPS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS)

| SWITCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| ALL LAMPS OFF | 1 * 0 0 0 | 0 1 1 1 | 1 1 1 1 1 | 1 1 1 | CA |
| ALL LAMPS ON | 1 * 0 0 0 | 1 1 1 1 | 1 1 1 1 1 | 1 1 1 | CA |
| PROC 0 POWER OFF | 1 * 0 0 0 | 0 0 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| PROC 0 POWER ON | 1 * 0 0 0 | 1 0 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| PROC 1 POWER OFF | 1 * 0 0 0 | 0 1 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| PROC 1 POWER ON | 1 * 0 0 0 | 1 1 0 1 | 1 0 0 0 0 | 0 0 0 | CA |
| ENAB | 1 * 0 0 0 | 0 0 1 1 | 1 0 0 0 0 | 0 0 0 | CA |
| MNA | 1 * 0 0 0 | 1 0 1 1 | 1 0 0 0 0 | 0 0 0 | CA |
| MJA | 1 * 0 0 0 | 0 1 1 1 | 1 0 0 0 0 | 0 0 0 | CA |
| SIA | 1 * 0 0 0 | 1 1 1 1 | 1 0 0 0 0 | 0 0 0 | CA |
| SIB | 1 * 0 0 0 | 0 0 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| AA | 1 * 0 0 0 | 1 0 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| AB | 1 * 0 0 0 | 0 1 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| AC | 1 * 0 0 0 | 1 1 0 0 | 0 1 0 0 0 | 0 0 0 | CB |
| AD | 1 * 0 0 0 | 0 0 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| AE | 1 * 0 0 0 | 1 0 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| CLEAR EXEC | 1 * 0 0 0 | 0 1 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| PROC 0 SELECT | 1 * 0 0 0 | 1 1 1 0 | 0 1 0 0 0 | 0 0 0 | CB |
| PROC 1 SELECT | 1 * 0 0 0 | 0 0 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 0 SELECT | 1 * 0 0 0 | 1 0 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 1 SELECT | 1 * 0 0 0 | 0 1 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 0    0 | 1 * 0 0 0 | 1 1 0 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 0    1 | 1 * 0 0 0 | 0 0 1 1 | 0 1 0 0 0 | 0 0 0 | CB |

Legend:
    1 — Lamp lighted
    0 — Lamp off
    * — Lamp lighted for operate or off for release

**TABLE R (Contd)**

**TSPS — C&D CENTRAL RELAY OUTPUT COMMANDS (NONLOCKING KEYS)**

| SWITCH (KEY) NAME | E-TELEMETRY STATION TEST SET INFORMATION LAMP STATUS | | | | CP 21 LOCATION |
|---|---|---|---|---|---|
| | 1 2 3 4 5 | 6 7 8 9 | 10 11 12 13 14 | 15 16 17 | |
| BUS 0    2 | 1 * 0 0 0 | 1 0 1 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 0    3 | 1 * 0 0 0 | 0 1 1 1 | 0 1 0 0 0 | 0 0 0 | CB |
| BUS 0    4 | 1 * 0 0 0 | 1 0 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 0    5 | 1 * 0 0 0 | 0 1 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 0    6 | 1 * 0 0 0 | 1 1 0 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 0    7 | 1 * 0 0 0 | 0 0 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    0 | 1 * 0 0 0 | 1 0 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    1 | 1 * 0 0 0 | 0 1 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    2 | 1 * 0 0 0 | 1 1 1 0 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    3 | 1 * 0 0 0 | 0 0 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    4 | 1 * 0 0 0 | 1 0 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    5 | 1 * 0 0 0 | 0 1 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    6 | 1 * 0 0 0 | 1 1 0 1 | 1 1 0 0 0 | 0 0 0 | CB |
| BUS 1    7 | 1 * 0 0 0 | 0 0 1 1 | 1 1 0 0 0 | 0 0 0 | CB |
| STATE CONT | 1 * 0 0 0 | 1 0 1 1 | 1 1 0 0 0 | 0 0 0 | CB |
| SET MANUAL | 1 * 0 0 0 | 0 1 1 1 | 1 1 0 0 0 | 0 0 0 | CB |
| SC ANS BUS 0 SELECT | 1 * 0 0 0 | 1 1 1 1 | 1 1 0 0 0 | 0 0 0 | CB |
| SC ANS BUS 1 SELECT | 1 * 0 0 0 | 0 0 0 0 | 0 0 1 0 0 | 0 0 0 | CC |
| INH ERROR DET | 1 * 0 0 0 | 1 0 0 0 | 0 0 1 0 0 | 0 0 0 | CC |
| CD LAMP REST | 1 * 0 0 0 | 0 1 0 0 | 0 0 1 0 0 | 0 0 0 | CC |
| ALARM RESET | 1 * 0 0 0 | 1 1 0 0 | 0 0 1 0 0 | 0 0 0 | CC |

Legend:
  1 — Lamp lighted
  0 — Lamp off
  * — Lamp lighted for operate or off for release

TABLE S

NO. 1 ESS — REMOTE STATUS POINTS

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | |
|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CP LOCATION |
| 0 | 0 | 0 | 0 | 0 | 1 | 6 | AA |
| 0 | 0 | 0 | 0 | 0 | 2 | 6 | AB |
| 0 | 0 | 0 | 0 | 0 | 3 | 6 | AC |
| 0 | 0 | 0 | 0 | 0 | 4 | 6 | AD |
| 0 | 0 | 0 | 0 | 1 | 1 | 10* | CC |
| 0 | 0 | 0 | 0 | 1 | 2 | 10* | CD |
| 0 | 0 | 0 | 0 | 1 | 3 | 9* | CE |
| 0 | 0 | 0 | 0 | 1 | 4 | 9* | CE |
| 0 | 0 | 0 | 1 | 0 | 1 | 9* | CF |
| 0 | 0 | 0 | 1 | 0 | 2 | 9* | CF |
| 0 | 0 | 0 | 1 | 0 | 3 | 9* | CG |
| 0 | 0 | 0 | 1 | 0 | 4 | 9* | CG |
| 0 | 0 | 0 | 1 | 0 | 5 | 9* | CH |
| 0 | 0 | 0 | 1 | 0 | 6 | 9* | CH |
| 0 | 0 | 0 | 0 | 0 | 5 | 9 | GC |
| 0 | 0 | 0 | 0 | 0 | 6 | 9 | GC |
| 0 | 0 | 0 | 1 | 0 | 7 | 9 | GD |
| 0 | 0 | 0 | 1 | 0 | 8 | 9 | GD |

* In addition to CP 9 or CP 10, replace CP 7 in location AH. Determine the defective CP as described in Step 10.

**TABLE T**

**NO. 2 ESS/AIS — REMOTE STATUS POINTS**

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | |
|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CP LOCATION |
| 0 | 0 | 0 | 0 | 0 | 1 | 6 | AA |
| 0 | 0 | 0 | 0 | 0 | 2 | 6 | AB |
| 0 | 0 | 0 | 0 | 0 | 3 | 6 | AC |
| 0 | 0 | 0 | 0 | 0 | 4 | 6 | AD |
| 0 | 0 | 0 | 0 | 0 | 5 | 9 | FA |
| 0 | 0 | 0 | 0 | 0 | 6 | 9 | FA |
| 0 | 0 | 0 | 0 | 1 | 1 | 9 | EA |
| 0 | 0 | 0 | 0 | 1 | 2 | 9 | EA |
| 0 | 0 | 0 | 0 | 1 | 3 | 53 | EB |
| 0 | 0 | 0 | 0 | 1 | 4 | 53 | EB |
| 0 | 0 | 0 | 1 | 0 | 1 | 9 | FB |
| 0 | 0 | 0 | 1 | 0 | 2 | 9 | FB |
| 0 | 0 | 0 | 1 | 0 | 3 | 9 | FC |
| 0 | 0 | 0 | 1 | 0 | 4 | 9 | FC |
| 0 | 0 | 0 | 1 | 1 | 1 | 6 | AA |

TABLE U

NO. 2B/3 ESS — REMOTE STATUS POINTS

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | |
|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CO LOCATION |
| 0 | 0 | 0 | 0 | 0 | 1 | 37 | AA |
| 0 | 0 | 0 | 0 | 0 | 2 | 37 | AB |
| 0 | 0 | 0 | 0 | 0 | 3 | 37 | AC |
| 0 | 0 | 0 | 0 | 0 | 4 | 37 | AD |
| 0 | 0 | 0 | 0 | 0 | 5 | 9 | FA |
| 0 | 0 | 0 | 0 | 0 | 6 | 9 | FA |
| 0 | 0 | 0 | 0 | 1 | 1 | 35 | EA |
| 0 | 0 | 0 | 0 | 1 | 2 | 35 | EA |
| 0 | 0 | 0 | 0 | 1 | 3 | 35 | EB |
| 0 | 0 | 0 | 0 | 1 | 4 | 35 | EB |
| 0 | 0 | 0 | 1 | 1 | 1 | 37 | AA |

## TABLE V

### TSPS — REMOTE STATUS POINTS

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | |
|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CP LOCATION |
| 0 | 0 | 0 | 0 | 0 | 1 | 6 | AA |
| 0 | 0 | 0 | 0 | 0 | 2 | 6 | AB |
| 0 | 0 | 0 | 0 | 0 | 3 | 6 | AC |
| 0 | 0 | 0 | 0 | 0 | 4 | 6 | AD |
| 0 | 0 | 0 | 0 | 0 | 5 | 9 | FA |
| 0 | 0 | 0 | 0 | 0 | 6 | 9 | FA |
| 0 | 0 | 0 | 0 | 1 | 1 | 9 | EA |
| 0 | 0 | 0 | 0 | 1 | 2 | 9 | EA |
| 0 | 0 | 0 | 0 | 1 | 3 | 9 | EB |
| 0 | 0 | 0 | 0 | 1 | 4 | 9 | EB |
| 0 | 0 | 0 | 1 | 0 | 1 | 9 | FB |
| 0 | 0 | 0 | 1 | 0 | 2 | 9 | FB |
| 0 | 0 | 0 | 1 | 0 | 3 | 9 | FC |
| 0 | 0 | 0 | 1 | 0 | 4 | 9 | FC |
| 0 | 0 | 0 | 1 | 0 | 5 | 9 | FD |
| 0 | 0 | 0 | 1 | 0 | 6 | 9 | FD |
| 0 | 0 | 0 | 1 | 0 | 7 | 9 | FE |
| 0 | 0 | 0 | 1 | 0 | 8 | 9 | FE |
| 0 | 0 | 0 | 1 | 1 | 1 | 9 | AA |

TABLE W

NO. 1A ESS — REMOTE STATUS POINTS

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | | |
|---|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CP LOCATION | MODULE* |
| 0 | 0 | 0 | 0 | 0 | 1 | 37 | AA | BRM |
| 0 | 0 | 0 | 0 | 0 | 2 | 37 | AB | BRM |
| 0 | 0 | 0 | 0 | 0 | 3 | 37 | AC | BRM |
| 0 | 0 | 0 | 0 | 0 | 4 | 37 | AD | BRM |
| 0 | 0 | 0 | 0 | 0 | 5 | 35 | BA | 2nd Exp |
| 0 | 0 | 0 | 0 | 0 | 6 | 35 | BA | 2nd Exp |
| 0 | 0 | 0 | 0 | 0 | 7 | 35 | BB | 2nd Exp |
| 0 | 0 | 0 | 0 | 0 | 8 | 35 | BB | 2nd Exp |
| 0 | 0 | 0 | 0 | 0 | 9 | 35 | BC | 2nd Exp |
| 0 | 0 | 0 | 0 | 0 | 10 | 35 | BC | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 1 | 35 | BD | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 2 | 35 | BD | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 3 | 35 | BE | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 4 | 35 | BE | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 5 | 35 | BF | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 6 | 35 | BF | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 7 | 35 | BG | 2nd Exp |
| 0 | 0 | 0 | 0 | 1 | 8 | 35 | BG | 2nd Exp |
| 0 | 0 | 0 | 1 | 0 | 1 | 35 | BA | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 2 | 35 | BA | 3rd Exp |

*BRM = Basic remote module (located lower right)
 2nd Exp = Second expander module 1 (located upper left)
 3rd Exp = Third expander module 1 (located upper right)

**TABLE W (Contd)**

**NO. 1A ESS — REMOTE STATUS POINTS**

| E-TELEMETRY STATION TEST SET WORD 1 SWITCH SETTINGS | | | | | DISPLAY WORD SELECT SWITCH POSITION | ASSOCIATED CPs | | |
|---|---|---|---|---|---|---|---|---|
| SWITCH NUMBER | | | | | | | | |
| 13 | 14 | 15 | 16 | 17 | | CP NO. | CP LOCATION | MODULE* |
| 0 | 0 | 0 | 1 | 0 | 3 | 35 | BB | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 4 | 35 | BB | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 5 | 35 | BC | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 6 | 35 | BC | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 7 | 35 | BD | 3rd Exp |
| 0 | 0 | 0 | 1 | 0 | 8 | 35 | BD | 3rd Exp |
| 0 | 0 | 0 | 1 | 1 | 1 | 37 | AA | BRM |

*BRM = Basic remote module (located lower right)
 3rd Exp = Third expander module 1 (located upper right)

**TABLE X**

**NO. 1 ESS — REMOTE RELAY OUTPUT MAINTENANCE**

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | |
| 6<br>6<br>6<br>6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6<br>6<br>6<br>6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6<br>6<br>6<br>6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6<br>6<br>6<br>6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6<br>6<br>6<br>6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6<br>6<br>6<br>6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6<br>6<br>6<br>6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6<br>6<br>6<br>6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |

TABLE Y

NO. 2 ESS/AIS – REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | |
| 6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |

## TABLE Z

### NO. 2B/3 ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | LAMP ON PLUG-IN |
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 37 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 37 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 37 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 37 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 37 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 37 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 37 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |

TABLE AA

TSPS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | |
| 6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AA | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AB | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AC | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 6 | AD | LIST 12 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |

## TABLE AB

## NO. 1 ESS – REMOTE RELAY OUTPUT MAINTENANCE

| TESTING BRM | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 37 | AA | LIST 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 37 | AA | LIST 12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 37 | AB | LIST 12 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 |
| 37 | AB | LIST 12 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 37 | AC | LIST 12 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| 37 | AC | LIST 12 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 8 |
| 37 | AD | LIST 12 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 4 |
| 37 | AD | LIST 12 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 8 |

TABLE AC

NO. 1 ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 11 | CB | K1-5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 11 | | | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 11 | | | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 3 |
| 11 | | | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 4 |
| 11 | CB | K1-5 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 5 |
| 11 | | | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 6 |
| 11 | | | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 7 |
| 11 | | | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 8 |
| 11 | CB | K1-5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 9 |
| 11 | | | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 10 |
| 11 | | | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 11 |
| 11 | | | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 12 |
| 11 | CB | K1-5 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 13 |
| 11 | | | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 14 |
| 11 | | | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 15 |
| 11 | | | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 16 |
| 11 | GA | K1-5 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 11 | | | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 2 |
| 11 | | | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 3 |
| 11 | | | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 4 |
| 11 | GA | K1-5 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 5 |
| 11 | | | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 6 |
| 11 | | | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 7 |
| 11 | | | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 8 |
| 11 | GA | K1-5 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 9 |
| 11 | | | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 10 |
| 11 | | | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 11 |
| 11 | | | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 12 |

## TABLE AC (Contd)

### NO. 1 ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING CP | TESTING LOC | INSERT PLUG-IN | 6 | 7 | 8 | 9 | 10 | 11 | 12 | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | | | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 13 |
| 11 | GA | K1-5 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 14 |
| 11 | | | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 15 |
| 11 | | | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 16 |
| 11 | | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 11 | GB | K1-5 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| 11 | | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 3 |
| 11 | | | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 4 |
| 11 | | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 |
| 11 | GB | K1-5 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 6 |
| 11 | | | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 7 |
| 11 | | | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 8 |
| 11 | | | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 9 |
| 11 | GB | K1-5 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 |
| 11 | | | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 11 |
| 11 | | | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 12 |
| 11 | | | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 13 |
| 11 | GB | K1-5 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 14 |
| 11 | | | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 15 |
| 11 | | | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 16 |

## TABLE AD

## NO. 2 ESS/AIS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | |
| 11 | FG | LIST 13 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| | | | 1 | 0 | 0 | 0 | 0 | 1 | 2 |
| | | | 0 | 1 | 0 | 0 | 0 | 1 | 3 |
| | | | 1 | 1 | 0 | 0 | 0 | 1 | 4 |
| 11 | FG | LIST 13 | 0 | 0 | 1 | 0 | 0 | 1 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 1 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 1 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 1 | 8 |
| 11 | FG | LIST 13 | 0 | 0 | 0 | 1 | 0 | 1 | 9 |
| | | | 1 | 0 | 0 | 1 | 0 | 1 | 10 |
| | | | 0 | 1 | 0 | 1 | 0 | 1 | 11 |
| | | | 1 | 1 | 0 | 1 | 0 | 1 | 12 |
| 11 | FG | LIST 13 | 0 | 0 | 1 | 1 | 0 | 1 | 13 |
| | | | 1 | 0 | 1 | 1 | 0 | 1 | 14 |
| | | | 0 | 1 | 1 | 1 | 0 | 1 | 15 |
| | | | 1 | 1 | 1 | 1 | 0 | 1 | 16 |
| 11 | FH | LIST 13 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| | | | 1 | 0 | 0 | 0 | 1 | 1 | 2 |
| | | | 0 | 1 | 0 | 0 | 1 | 1 | 3 |
| | | | 1 | 1 | 0 | 0 | 1 | 1 | 4 |
| 11 | FH | LIST 13 | 0 | 0 | 1 | 0 | 1 | 1 | 5 |
| | | | 1 | 0 | 1 | 0 | 1 | 1 | 6 |
| | | | 0 | 1 | 1 | 0 | 1 | 1 | 7 |
| | | | 1 | 1 | 1 | 0 | 1 | 1 | 8 |
| 11 | FH | LIST 13 | 0 | 0 | 0 | 1 | 1 | 1 | 9 |
| | | | 1 | 0 | 0 | 1 | 1 | 1 | 10 |
| | | | 0 | 1 | 0 | 1 | 1 | 1 | 11 |
| | | | 1 | 1 | 0 | 1 | 1 | 1 | 12 |
| 11 | FH | LIST 13 | 0 | 0 | 1 | 1 | 1 | 1 | 13 |
| | | | 1 | 0 | 1 | 1 | 1 | 1 | 14 |
| | | | 0 | 1 | 1 | 1 | 1 | 1 | 15 |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 16 |

TABLE AE

TSPS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 11 | FG | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 11 | FG | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 11 | FG | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 9<br>10<br>11<br>12 |
| 11 | FG | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 13<br>14<br>15<br>16 |
| 11 | FH | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>2<br>3<br>4 |
| 11 | FH | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 5<br>6<br>7<br>8 |
| 11 | FH | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 9<br>10<br>11<br>12 |
| 11 | FH | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1 | 0<br>0<br>0<br>0 | 13<br>14<br>15<br>16 |
| 11 | FJ | LIST 13 | 0<br>1<br>0<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 0<br>0<br>0<br>0 | 1<br>1<br>1<br>1 | 1<br>2<br>3<br>4 |

## TABLE AE (Contd)

## TSPS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 11 | FJ | LIST 13 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 8 |
| 11 | FJ | LIST 13 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 9 |
| | | | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 10 |
| | | | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 11 |
| | | | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 12 |
| 11 | FJ | LIST 13 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 13 |
| | | | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 14 |
| | | | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 15 |
| | | | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 16 |

**TABLE AF**

**NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE**

| TESTING 1ST EXP MOD | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 11 | BA | LIST 13 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|    |    |         | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
|    |    |         | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 |
|    |    |         | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| 11 | BA | LIST 13 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 5 |
|    |    |         | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 6 |
|    |    |         | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 7 |
|    |    |         | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 8 |
| 11 | BA | LIST 13 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 9 |
|    |    |         | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 10 |
|    |    |         | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 11 |
|    |    |         | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 12 |
| 11 | BA | LIST 13 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 13 |
|    |    |         | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 14 |
|    |    |         | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 15 |
|    |    |         | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 16 |
| 11 | BB | LIST 13 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
|    |    |         | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
|    |    |         | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 |
|    |    |         | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 4 |
| 11 | BB | LIST 13 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 5 |
|    |    |         | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 6 |
|    |    |         | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 7 |
|    |    |         | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 8 |
| 11 | BB | LIST 13 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 9 |
|    |    |         | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 10 |
|    |    |         | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 11 |
|    |    |         | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 12 |
| 11 | BB | LIST 13 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 13 |
|    |    |         | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 14 |
|    |    |         | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 15 |
|    |    |         | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 16 |
| 11 | BC | LIST 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
|    |    |         | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
|    |    |         | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
|    |    |         | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 4 |

## TABLE AF (Contd)

### NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING 1ST EXP MOD | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 11 | BC | LIST 13 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 8 |
| 11 | BC | LIST 13 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 9 |
| | | | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 10 |
| | | | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 11 |
| | | | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 12 |
| 11 | BC | LIST 13 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 13 |
| | | | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 14 |
| | | | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 15 |
| | | | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 16 |
| 11 | BD | LIST 13 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 4 |
| 11 | BD | LIST 13 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 8 |
| 11 | BD | LIST 13 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 9 |
| | | | 1 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 10 |
| | | | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 11 |
| | | | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 12 |
| 11 | BD | LIST 13 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 13 |
| | | | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 14 |
| | | | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 15 |
| | | | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 16 |
| 11 | BE | LIST 13 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 4 |
| 11 | BE | LIST 13 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 8 |

TABLE AF (Contd)

NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING 1ST EXP MOD | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 11 | BE | LIST 13 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 9 |
| | | | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 10 |
| | | | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 11 |
| | | | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 12 |
| 11 | BE | LIST 13 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 13 |
| | | | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 14 |
| | | | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 15 |
| | | | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 16 |
| 11 | BF | LIST 13 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 4 |
| 11 | BF | LIST 13 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 8 |
| 11 | BF | LIST 13 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 9 |
| | | | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 10 |
| | | | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 11 |
| | | | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 12 |
| 11 | BF | LIST 13 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 13 |
| | | | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 14 |
| | | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 15 |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 16 |
| 11 | BG | LIST 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| | | | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |
| | | | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 11 | BG | LIST 13 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 5 |
| | | | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |
| | | | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 7 |
| | | | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 8 |
| 11 | BG | LIST 13 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 9 |
| | | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 10 |
| | | | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 11 |
| | | | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 12 |

TABLE AF (Contd)

NO. 1A ESS — REMOTE RELAY OUTPUT MAINTENANCE

| TESTING 1ST EXP MOD | | INSERT PLUG-IN | SET WORD 3 SWITCHES | | | | | | | | | LAMP ON PLUG-IN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CP | LOC | | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | |
| 11 | BG | | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 13 |
| | | | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 14 |
| | | | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 15 |
| | | | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 16 |