TASK ORIENTED PRACTICE (TOP)

D4 DIGITAL DATA BANK

SUBRATE MULTIPLEXER UNIT

ACCEPTANCE AND MAINTENANCE PROCEDURES

DIGITAL TRANSMISSION SYSTEMS

1. GENERAL

1.001 This addendum supplements TOP 365-170-220, Issue 1. Place this pink sheet before TPG-000 of the TOP practice. Replace the attached data elements of the TOP in numerical order.

1.002 This addendum is issued to add frame alarm troubleshooting and procedures for setting or inhibiting frame alarms on the SRMU circuit board.

2. REPLACEMENTS TO THE TOP PRACTICE

2.001 Replace pages as follows:

(a) TAP-100: Replace both pages with the attached revised three pages of TAP-100 Addendum.

(b) DLP-511: Replace all four pages with the attached revised four pages of DLP-511 Addendum.

3. ATTACHMENTS

- **TAP-100 Addendum. Three pages.**
- **DLP-511 Addendum. Four pages.**

4. ISSUING ORGANIZATION

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CLEAR RED ALARM ON SRMU

1. On SRMU depress **ACO** button

   Response: green **ACO** LED lights
   PDU alarm is silenced

2. Is **SRMU** LED on?

   If **YES**, then continue with Step **3**.
   If **NO**, then proceed to Step **7**.

3. Remove and reinsert SRMU CP.

4. Is **SRMU** LED on?

   If **YES**, then continue with Step **5**.
   If **NO**, then proceed to Step **7**.

5. Replace SRMU CP.

6. Is **SRMU** LED on?

   If **YES**, then **refer trouble to responsible group.**
   If **NO**, then continue with Step **7**.

7. Is **AR** LED on?

   If **YES**, then continue with Step **8**.
   If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

8. Remove **SRMU**, check position of frame alarm plug, reinsert SRMU and proceed to Step **9**.

9. Is **FR ALM** in **IN** position?

   If **YES**, then continue with Step **10**.
   If **NO**, then proceed to Step **19**.

10. Are any channels 1, 7, 13, or 19 LEDs on?

    If **YES**, then continue with Step **11**.
    If **NO**, then proceed to Step **19**.

11. Is DP installed in alarmed channels?

    If **YES**, then continue with Step **12**.
    If **NO**, then proceed to Step **17**.

12. Loop DS-0B (channels 1,7, 13, or 19) which has alarm and proceed to Step **13.**

13. Is channel alarm off?

    If **YES**, then continue with Step **14.**
    If **NO**, then proceed to Step **15.**

14. Is **AR** LED off?

    If **YES**, then **problem is probably in facility.**
    If **NO**, then proceed to Step **19.**

15. Replace DP in channels (1, 7, 13, or 19) which have alarms and proceed to Step **16.**

16. Is channel alarm on?

    If **YES**, then proceed to Step **19.**
    If **NO**, then proceed to Step **14.**

17. Install DP and proceed to Step **18.**

18. Is channel alarm off?

    If **YES**, then continue with Step **19.**
    If **NO**, then proceed to Step **12.**

19. Is **AR** LED on?

    If **YES**, then replace SRMU and continue with Step **20.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

20. Is **AR** LED on?

    If **YES**, then replace RU and continue with Step **21.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

21. Is **AR** LED on?

    If **YES**, then perform DLP-502 and DLP-512 and continue with Step **22.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

22. Is **AR** LED on?

    If **YES**, then replace LIU-3, remove and reinsert SRMU and continue with Step **23.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

23. Is **AR** LED on?

    If **YES**, then continue with Step **24.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

24. Is bank equipped with an OIU-4?

    If **YES**, then continue with Step **25.**
    If **NO**, then replace OIU-1 and proceed to Step **26.**

25. Is slip alarm on?

    If **YES**, then replace OIU-4 and continue with Step **26.**
    If **NO**, then **refer trouble to responsible group.**

26. Check external timing [DLP-503].

27. Is **AR** LED still on?

    If **YES**, then **refer trouble to responsible group.**
    If **NO**, then **STOP. YOU HAVE COMPLETED THIS PROCEDURE.**

OPTION, INSTALL, AND TEST SRMU

1. Obtain the following:

   - SRMU
   - 2 DS0-DPs (J98726DA or J98726DH)
   - KS-20908 - Receiver
   - KS-20909 - Transmitter
   - ED-3C792 - Test Interface Unit
   - COMCODE 842725111 - Cable Assembly
   - ED-3C793 - Loopback Connector.

2. On SRMU faceplate, set **SW1** and **SW2** to 5.

3. Place **FR ALM** jumper to **OUT** position.

4. Install SRMU into TU and ACU slots associated with digroup A or B to be equipped for DDB application.

5. Ensure SRMU LED is out.

6. On DS0-DP option J2 to select EC OUT and D4 mode (if J98726DA).

7. Option error correction switch to 0 and mode plug to D4 (if J98726DH).

8. Install DS0-DP in channel slot 1.

9. Insert loopback connector into **TST** jack of DS0-DP in channel slot 1.

10. Ensure **CHAN 1** LED on SRMU goes out.

11. Install DS0-DP into channel 2 slot.

12. Connect KS-20908 Receiver and KS-20909 Transmitter to DS0-DP in channel slot 2 [Fig. 1].

13. Are clock lamps on?

    If **YES**, then proceed to Step **15.**
    If **NO**, then check test set up on another working bank and continue with Step **14.**

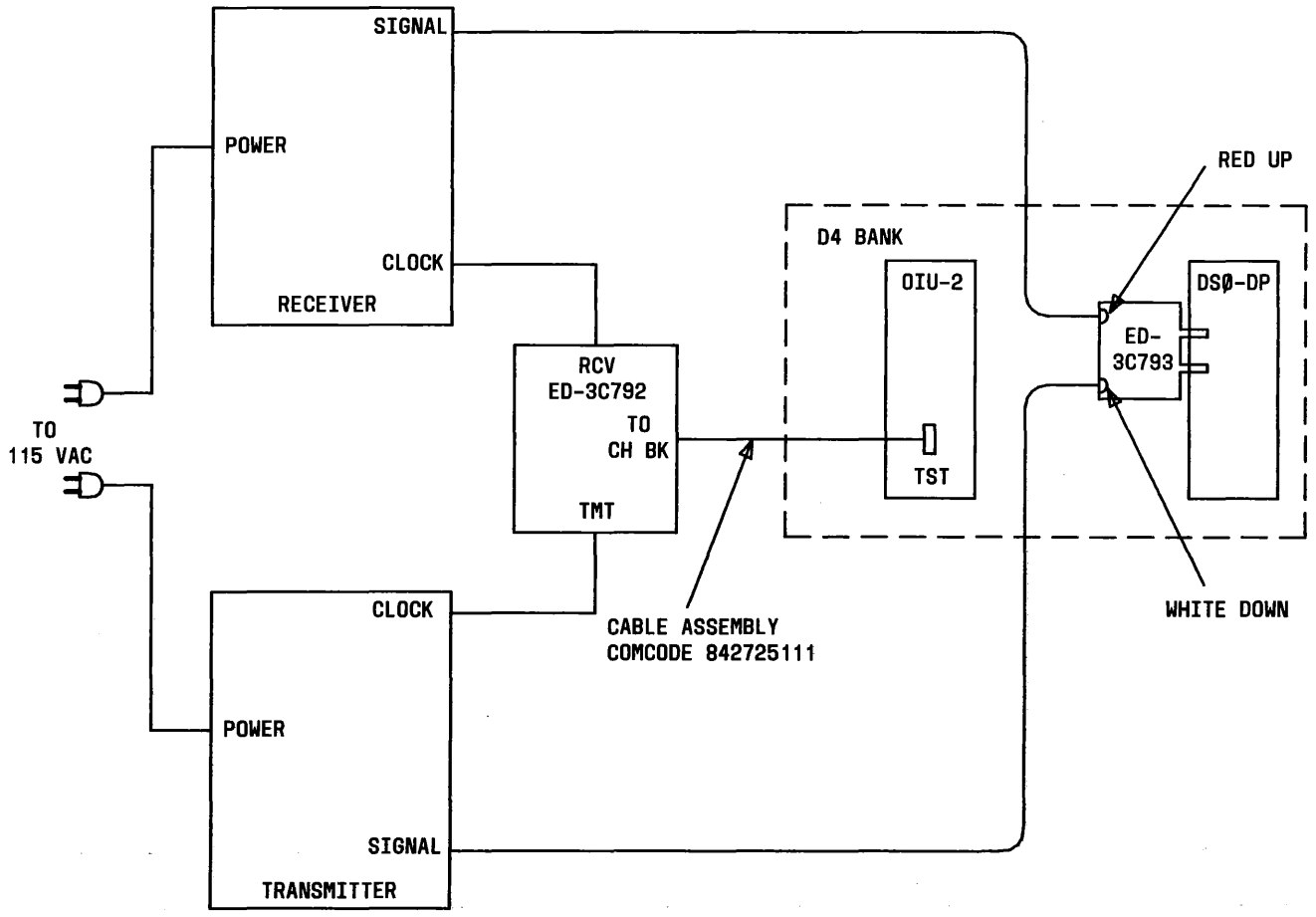

FIG. 1 - SRMU Installation Test Connections

14. ***Caution: Removal of OIU causes loss of service to all digital customers in channel bank.***

    Are clock lamps on when using another working bank?

    If **YES**, then replace OIU in bank requiring tests and continue with Step **15.**
    If **NO**, then repair defective test equipment and proceed to Step **12.**

15. Set **TRANSMITTER** as follows:

    - **FUNCTION - 2047**
    - **MODE - REPEAT**
    - **DATA RATE - 9.6 kb/s**
    - **OUTPUT - BIPOLAR.**

16. Set **RECEIVER** as follows:

    - **INPUT - BIPOLAR**
    - **TEST WORD - 2047**
    - **DATA RATE - 9.6 kb/s**
    - **COUNTER - BIT**
    - **SUBRATE CHANNEL - SINGLE.**

17. On **RECEIVER**, momentarily operate **COUNTER MODE** switch to **RESET** and release.

18. After 1 minute, operate **COUNTER MODE** switch to **HOLD.**

19. Does counter indicate 000?

    If **YES**, then proceed to Step **23.**
    If **NO**, then replace dataport in question, clear any alarms and continue with Step **20.**

20. On **RECEIVER**, momentarily operate **COUNTER MODE** switch to **RESET** and release.

21. After 1 minute, operate **COUNTER MODE** switch to **HOLD.**

22. Does **COUNTER** indicate 000?

    If **YES**, then continue with Step **23.**
    If **NO**, then **clear data errors using TAP-101.**

23. Have channels 2 through 6 been tested?

    If **YES**, then proceed to Step **25.**
    If **NO**, then continue with Step **24.**

24. Move DP to next channel, connect KS-20908 and KS-20909 and repeat from Step **17.**

25. Remove DP with loopback plug from channel slot 1 and plug it into channel slot 7.

26. Ensure that **CHAN 7** LED goes out.

27. Install DS0-DP into channel 8 slot and connect KS-20908 and KS-20909.

28. Repeat Steps 17 through 21.

29. Have channels 8 through 12 been tested?

    If **YES**, then proceed to Step **31.**
    If **NO**, then continue with Step **30.**

30. Move DP to next channel, connect KS-20908 and KS-20909 and repeat from Step **17.**

31. Remove DP with loopback plug from channel slot 7 and plug it into channel slot 13.

32. Ensure that **CHAN 13** LED goes out.

33. Install DS0-DP into channel 14 slot and connect KS-20908 and KS-20909.

34. Repeat Steps 17 through 22.

35. Have channels 14 through 18 been tested?

    If **YES**, then proceed to Step **37**.
    If **NO**, then continue with Step **36**.

36. Move DP to next channel, connect KS-20908 and KS-20909 and repeat Steps 17 through 22.

37. Remove DP with loopback plug from channel slot 13 and plug it into channel slot 19.

38. Ensure that **CHAN 19** LED goes out.

39. Install DS0-DP into channel slot 20 and connect KS-20908 and KS-20909.

40. Repeat Steps 17 through 22.

41. Have channels 20 through 24 been tested?

    If **YES**, then proceed to Step **43**.
    If **NO**, then continue with Step **42**.

42. Move DP to next channel, connect KS-20908 and KS-20909 and repeat Steps 17 through 22.

43. Remove SRMU, place **FR ALM** jumper to **IN** position.

44. Install SRMU, set **SW1** to 20. **CHAN 1** LED and **AR** LED should come on.

45. Install DP with loopback plug into channel slot 1, make sure all lights go out.

46. After test is complete, set **FR ALM** jumper in accordance with office records. If **FR ALM** jumper is to remain in the **IN** position, keep unassigned DS-0B channels looped with DP installed until facility to far end is connected.

STOP. YOU HAVE COMPLETED THIS PROCEDURE