D. System Set Up

1. Record assigned equipment from circuit status board

2. Transmit Side

   a. AN/UGC-6 Teletype

      (1) Energize

      (2) Ensure LINE/TEST switch is in LINE position

         (a) Teletype will "run open" until 60ma current from KW-7 is applied to provide mark or lock-up condition

   b. SB-1210/UGQ Communications Patch Panel (RED)

      (1) If teletype equipment assigned is on the same channel as the crypto equipment, no patch is required

         (a) This applies to the top SET jack only

         (b) Referred to as "NORMAL THROUGH"

      (2) If teletype equipment is on a different channel, a DC patch cord must be used to complete the connection

      (3) **WARNING:** Always patch from SET to LPG

      (4) After making the patch, turn the meter switch to appropriate LPG channel number and use the corresponding channel rheostat to adjust the line current for 60ma

   c. KW-7/TSEC Crypto Device

      (1) Power ON/OFF switch to ON

         (a) Power Indicator Light will come on

      (2) REMOTE/CIPHER/PLAIN switch to CIPHER

         (a) REMOTE position used when SEND teletype is remotely located from the KW-7/TSEC

         (b) CIPHER position used for local send/receive operations and when checking alarms

         (c) PLAIN position used to bypass internal crypto circuits

         1. Steel plate prevents operator from accidentally placing switch in PLAIN position
2. PLAIN indicator lamp will light (RED) when switch is in the PLAIN position. Warns of a possible security violation in the crypto unit.

(3) ALARM TEST switch

(a) REMOTE/CIPHER/PLAIN switch in CIPHER position

(b) ALARM TEST switch has 12 positions (1-10 check internal circuits for proper operation)

1. Positions 1-5: M&I light and ALARM light (RED) plus audio tone

2. Position 6: P&I light (YELLOW) and ALARM light (RED) plus audio tone

3. Position 7-9: ALARM light (RED) plus audio tone

4. Position 10: No lights with audio tone

5. Position 11: Not labeled and has no visual or audio indicators

6. OFF position: Normal operating position for KW-7 after completion of alarm checks

   a. Ensure switch is not left in the 11th (unlabeled) position

(c) When operating from a remote position, alarm checks must be made prior to turning the REMOTE/CIPHER/PLAIN switch to REMOTE

1. DO NOT operate the KW-7 if any alarm test position fails to operate as specified

2. SECURE the KW-7 and notify maintenance personnel

(d) REMOTE/CIPHER/PLAIN switch to REMOTE

d. SB-1203/UG Communications Patch Panel (BLACK)

(1) If crypto assigned is on the same channel as the assigned converter, no DC patch is required

   (a) NORMAL THROUGH

(2) If crypto is on different channel, a DC patch cord must be used to complete the connection

   (3) WARNING: Always patch from SET to LPG

12-3-7