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
 - <u>1</u>. 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)
 - 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