RADIO ADMINISTRATION

MICROWAVE RADIO

RADIO CHANNEL RELEASE PROCEDURES

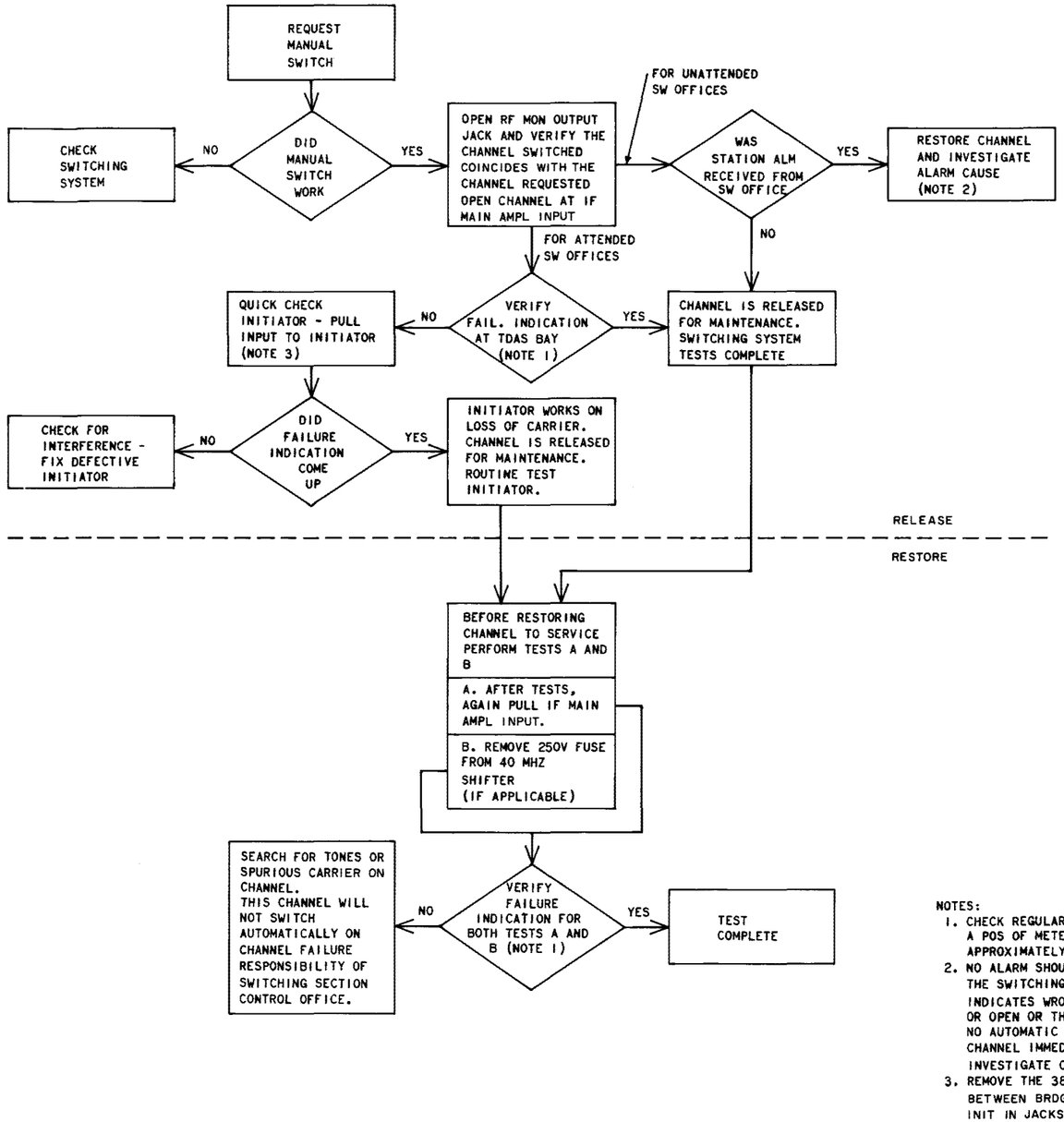
1. GENERAL

1.01 This section is issued to provide radio channel release procedures for obtaining channel releases within a switching section.

1.02 The procedures are in flowchart form and are intended for use at both radio station and switching section offices by personnel familiar with the radio system involved and its protection switching system. (See Fig. 1, 2, 3, and 4.)

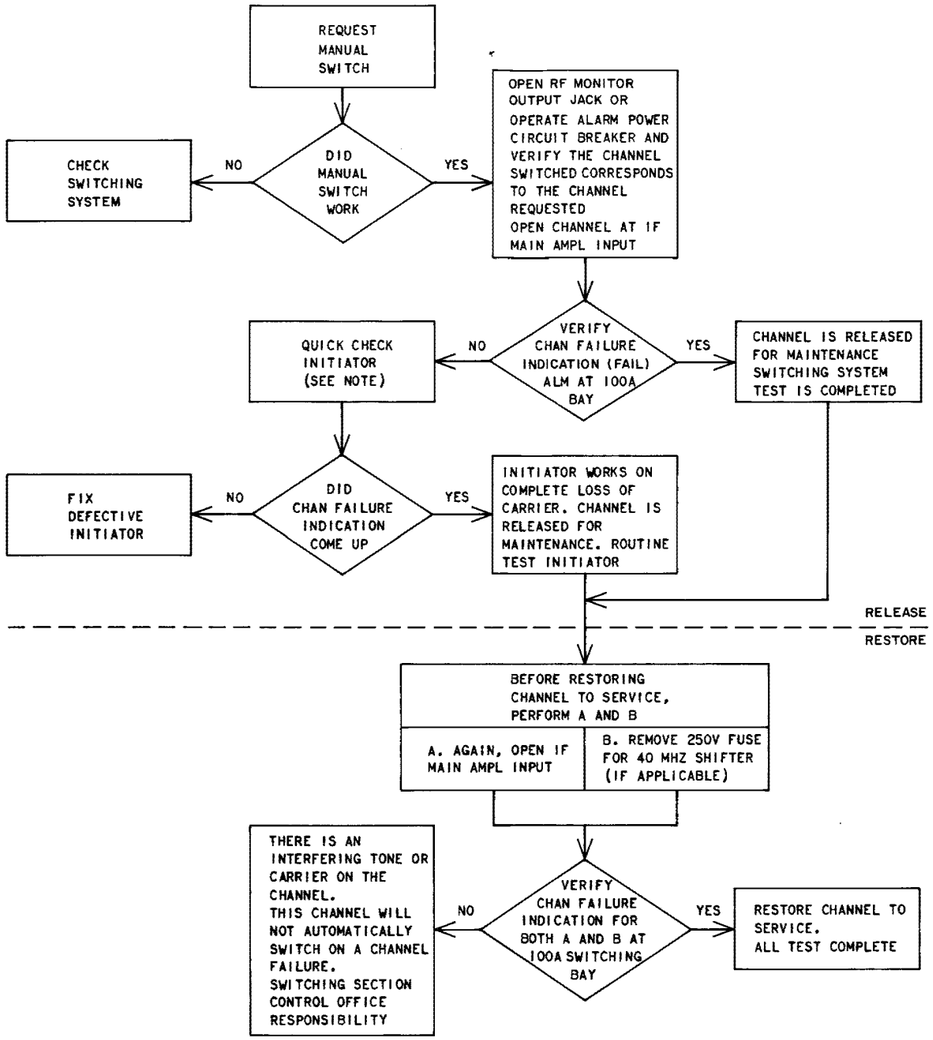
1.03 Except for unattended TDAS switching terminals, these procedures incorporate an operational check of the IF-IF protection switching system. These tests ensure that the protection switching system will recognize a failed channel from the station involved and that the failed channel is the channel requested for the switch. It is expected that the use of these standard procedures will reduce the number of "failed to switch" service outages.

1.04 "Failed to switch" outages can be caused by several conditions; for example, RF leakage, spurious tones, cross-modulation, and defective initiators.



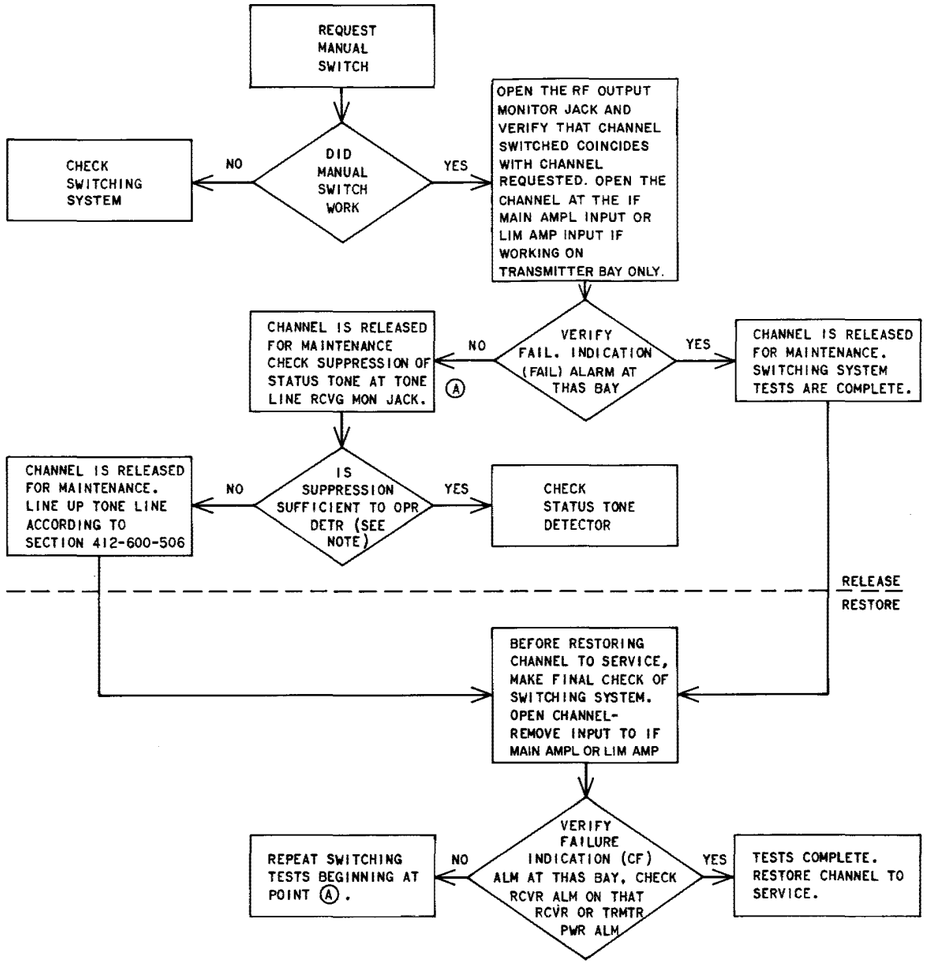
NOTES:
1. CHECK REGULAR CHANNEL INITIATOR A POS OF METER (INDICATION OF APPROXIMATELY +40 VOLTS)
2. NO ALARM SHOULD BE RECEIVED FROM THE SWITCHING OFFICE. AN ALARM INDICATES WRONG CHANNEL SWITCHED OR OPEN OR THAT THERE HAS BEEN NO AUTOMATIC SWITCH. RESTORE CHANNEL IMMEDIATELY AND INVESTIGATE CAUSE OF ALARM.
3. REMOVE THE 389A PATCH PLUG BETWEEN BRDG AMP OUT AND INIT IN JACKS AT INITIATOR BAY

Fig. 1—Radio Channel Release Procedures—TDAS Switching System



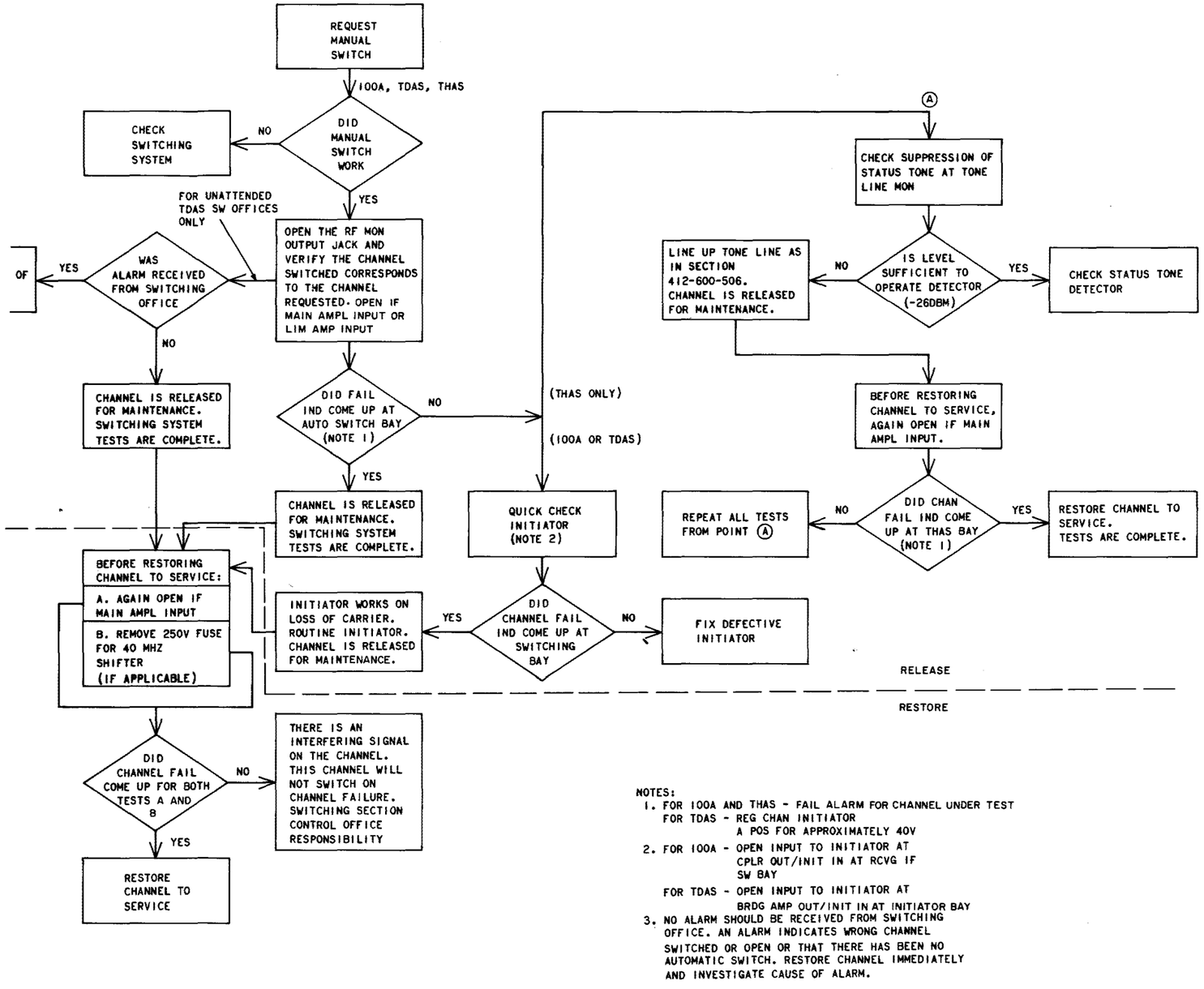
NOTE:
OPEN INITIATOR INPUT AT CPLR OUT/INIT IN (513JK) IN RCVG IF SW BAY.

Fig. 2—Radio Channel Release Procedures—100A Switching System



NOTE:
STATUS TONE DETECTOR IS SET TO OPERATE AT -26 DBM. TONE LINE RCVG MON JACK IS BRIDGED TO TONE LINE VIA 30 DB PAD.

Fig. 3—Radio Channel Release Procedures—THAS Switching System



NOTES:
1. FOR 100A AND THAS - FAIL ALARM FOR CHANNEL UNDER TEST
   FOR TDAS - REG CHAN INITIATOR
   A POS FOR APPROXIMATELY 40V
2. FOR 100A - OPEN INPUT TO INITIATOR AT CPLR OUT/INIT IN AT RCVG IF SW BAY
   FOR TDAS - OPEN INPUT TO INITIATOR AT BRDG AMP OUT/INIT IN AT INITIATOR BAY
3. NO ALARM SHOULD BE RECEIVED FROM SWITCHING OFFICE. AN ALARM INDICATES WRONG CHANNEL SWITCHED OR OPEN OR THAT THERE HAS BEEN NO AUTOMATIC SWITCH. RESTORE CHANNEL IMMEDIATELY AND INVESTIGATE CAUSE OF ALARM.

Fig. 4—Radio Channel Release Procedures—All Systems