CONTROL AND ALARM CIPCUIT
(SD-95872-01)

1.1 This section describes the tests to be performed on the Control and Alarm Circuit SD-95872-01 which permits an operator handling CAMA traffic to vacate the switchboard without causing any traffic interruptions.

2. RECORDS AND REQUIREMENTS

2.1 Records: Forms SD-4-1313 and SD-4-1315 are required for recording the results of this test.

2.2 Requirements: The tests in this section are based on SD+CD - 95872-01.

3. TEST EQUIPMENT

3.1 Test Sets

Amt	ITE	Description
1	4442	Volt-Ohmmeter

4. FUSING

4.1 Remove all fuses in this circuit.

4.2 Using the ITE-4442 Volt-Ohmmeter check each fuse post for the absence of battery and ground.

4.3 Install the proper size fuses and verify that the correct potential is at the terminal indicated below. Make sure that each terminal is free from crosses.

Voltage	Terminal
-48V(A)	11- T.S. (A) On Unit
-48V(B)	12- T.S. (A) On Unit

5. OPERATIONAL TESTS

5.1 Visual and Audible Alarms (Option V)

5.11 With Option X and Z

5.111 Apply ground to the R lead. Observe that the AS lamp lights when ground is applied.

5.112 Connect one side of a test receiver to terminal 11 of Unit T.S.(A) and apply the other end to the T lead. Observe that the OA tone bar sounds when the lead is applied.

5.12 With Option Y

5.121 Strap together terminal 26 and terminal 31 of Unit T.S.(A). Connect one end of a test receiver to terminal 12 of Unit T.S.(A) and apply the other end to terminal 36 of Unit T.S.(A). Observe that relays AS and AS1 operate, lamp AS lights and tone bar OA sounds when the lead is applied to terminal 36.

5.2 Visual and Audible Alarms (Option W)

5.21 Short contact 4 top to 5 top on the AS key.

5.22 Connect one end of a test receiver to terminal 12 of Unit T.S.(A) and apply the other end to the F lead. Observe that the AS lamp lights and the OA tone bar sounds when the lead is applied.

5.3 Power Failure Alarm

5.31 Connect the (+) lead of the ITE-4442 Volt-Ohmmeter to contact 4 of relay CKS, and the (-) lead to contact 8 of relay CKS. Observe a reading of approximately 60V DC.

5.32 Insulate contact 6 of relay CKS. Observe that relay CKS releases, green lamp CK extinguishes, red lamp PF lights, and the ITE-4442 Volt-Ohmmeter reads approximately 48V DC.

5.33 Remove the insulation from contact 6 of relay CKS. Observe that relay CKS operates, red lamp PF extinguishes, green lamp CK lights, and the ITE-4442 Volt-Ohmmeter reads approximately 60V DC.

5.34 After all tests are completed, remove all test sets and strapping.

Manager, Panel and Step-by-Step
Switching Systems Engineering

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