

# TMC SPECIFICATION

NO. S 1203

REV:

COMPILED: RJ Ebert

CHECKED: *[Signature]*

APPD: *[Signature]*

SHEET

OF

TITLE: TEST PROCEDURE FOR MSG-3I

TEST PROCEDURE

FOR

MSG-3I SYSTEM

# TMC SPECIFICATION

NO. S 1203

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SHEET 1 OF 3

TITLE: TEST PROCEDURE FOR MSG-3I

## I. TEST EQUIPMENT REQUIRED

1. Signal Generator, Measurements Model 82
2. AC VTVM Ballantine Model 314
3. Frequency Counter, HP Model 524C
4. 4 600 OHM 1/2 Watt Resistors
5. 6 FT Length of Coaxial Cable with Female BNC connectors on each end.

I(a) NOTE: All individual units comprising this system should be bench tested and aligned prior to this final check out.

## II PRELIMINARY

1. Check system for obvious mechanical and electrical defects.
2. Connect main power cable to 115V AC single phase line.
3. Check that ovens in MCG-2I are warming and are cycling. (Observe HR-6001, 6002 and 6003). The MPS-1 should be on.
4. The HFP-1 should be in STANDBY condition.
5. Place MSA-1 STANDBY/OPERATE switch into OPERATE.
6. The HFP-1 should go into TIME DELAY condition.
7. After A time lapse, not to exceed 90 seconds the HFP-1 should come into the OPERATE condition.
8. Connect 600 Ohm resistors across output channels of terminal box contained on side of cabinet.

## III. PROCEDURE

1. MSA-1 AGC decay full CCW, Squelch full CCW.
2. MCG-2I to INTERNAL. Switch to INTERNAL position.
3. Connect Signal Generator to input Jack on Terminal Box.
4. Set Signal Generator to 455 Kc with 3 MV output.
5. Set Line Level Knob to about 1/4 CW.
6. Vary Generator Frequency output slowly until an indication on Channel B2. VU meter of MSA-1 is observed. Set B2 LINE LEVEL for OVU. Check output Terminal Box Channel B2 for Signal. With Ballantine Meter measure each side of 600 Resistor to ground. It should read approximately .33VAC.
7. On each succeeding channel on MSA-1, (i.e. B1, A1, A2) repeat test as indicated in Step #6.
8. Place switch on Front Panel of MCG-2I into the AFC position. AFC-2A should come into the OPERATE condition, indicated by FADE and LEVEL alarm lamps being lit.
9. Set AFC-2A tuning to -3KC. Slowly sweep AFC Tuning to +3KC. As this is done, the MSA-1 Channels should actuate in the following sequence: A2, A1, B1 and B2.
10. Reset Front Panel Switch of MCG-2I to INTERNAL position. Connect

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SHEET 2 OF 3

TITLE: TEST PROCEDURE FOR MSG-31

frequency counter to J6003. Set C6002 for 250KC + .2cps. Connect counter to J6012. Set C6010 for 705KC + .2 cps. Connect counter to Pin 1 of V6003. Adjust 26001(Accessible from Rear) for 100.00Kc + .01 cps.

11. Disconnect Test Equipment. Shut down system. Test completed. Fill in test Data Sheet.

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SHEET 3 OF 3

TITLE: TEST PROCEDURE FOR MSG-31

## TEST DATA SHEET FOR MSG-31

SERIAL NO. \_\_\_\_\_

MFG. NO. \_\_\_\_\_

### PRELIMINARY:

- 1. Mechanical \_\_\_\_\_ OK
- 2. Ovens Cycle \_\_\_\_\_ OK

### PROCEDURE

- 1. Terminal Box Output channel B2 \_\_\_\_\_ OK
- B1 \_\_\_\_\_ OK
- A1 \_\_\_\_\_ OK
- A2 \_\_\_\_\_ OK
  
- 2. AFC-2A B+Check \_\_\_\_\_ OK
  
- 3. Channel Response to AFC tuning
- channel B2 \_\_\_\_\_ OK
- Channel B1 \_\_\_\_\_ OK
- Channel A1 \_\_\_\_\_ OK
- Channel A2 \_\_\_\_\_ OK
  
- 4. MCG Oscillator Frequencies
- 100.00KC \_\_\_\_\_ KC \_\_\_\_\_ KC
- 250KC \_\_\_\_\_ KC \_\_\_\_\_ KC
- 705KC \_\_\_\_\_ KC \_\_\_\_\_ KC

TESTER: \_\_\_\_\_

DATE: \_\_\_\_\_

