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TEST PROCEDURE

FOR

MSG-31 SYSTEM

TMC FORM SPEC 1

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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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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(Acessible 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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