DATE 26/4/1960 SH. 1 OF 3 COMPILED BY C.L.B.	TMC SPECIFICATION NO. S - 10042	
APPROVED	TITLE: TEST PROCEDURE FOR PAL-1000	JOB CE-5075

TEST PROCEDURE

FOR

MODEL PAL-1000

SYSTEM

DATE 26/4/1960 SH. 2 OF 3 COMPILED BY C. I. P.	TMC SPECIFICATION NO. S - 10042	
APPROVED	TITLE: TEST PROCEDURE FOR PAL-1000	JOB CE-5075

SECTION I:

1) Perform complete visual examination of all units for physical and mechanical defects.

2) Check security of all components.

3) Check that all adjustments are locked.

SECTION II:

1) Check C. W. power at band edges and complete page 1 of test report.

2) Check sideband power, third order etc. and complete page 2 of test report.

3) Check harmonics at 4 frequencies chosen by DND IS.

4) Check frequency response and audio distortion and record results on page 3. Check distortion at 2 RF frequencies, at 95% modulation.

SECTION III:

1) Check stability, to be equal or better than .0002% 20°C to 40°C with ± 10% line voltage variation using 2270 M/c crystal.

2) Check, using panalyzor for modes of operation.

(1) 6A3 Double side band amplitude modulation.

This test to be conducted as follows:

(a) Adjust carrier insert to give 500 watts C. W.

(b) Using panalyzor adjust to show full screen amplitude on carrier.

(c) Insert 1K/c tone on both side bands level to be - 6db relative to carrier.

(d) Power output to be 750 watts minimum.

(e) Complete page 3 of test report.

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(f) Tune RX to TX output and note RX audio output level.

(g) Cut modulation and measure A/F output level. Must be - 40db or better.

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SBE # PAL-1K #

1)

(a) AM Test power output _____ watts.

(b) Residual carrier noise _____ db.

(c) Using detector at monitor output measure frequency response and distortion.

RF	A/F	DIST.	FREQ. RESP.	RF	DIST.	FREQ. RESP.
	300					
	1000					
	3300					

AC RIPPLE AND REGULATION

1)

(a) Measure with HP 410B across 220K resistor in bleeder.

(b) Ripple voltage not to exceed 1.00 volts AC _____ V.

(c) Change in D. C. level not to exceed 15% from no load to full load current. _____ %.

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SBE MODES

1) AM _____

2) ISB _____

3) SSB _____

4) SSB with intermittent carrier _____

5) Carrier ON/OFF RTT. keyed at 42 cps. _____

SBE Power output at _____ M/c. _____ watts PEP.

BANDWIDTH CHECK

Vary audio input to SBE and record 3 db points

relative to 1 k/cs bandwidth _____ k/cs

UNWANTED SIDE BAND

Using 500 c/s tone rejection _____ db.

SBE STABILITY TEST

After 24 hour warm up record frequency every 30 minutes for period of 4 hours.

TIME	F
00.00	
.30	
1.00	
1.30	
2.00	
2.30	
3.00	
3.30	
4.00	
Mains voltage + 10%	
Mains voltage - 10%	
Temperature 20°C	
Temperature 40°C	

Stability to be .0002% or better.

_____ Tester

_____ 1960.

(DNDIS)

FORM — 100