

DATE <u>2/19/72</u>	TMC SPECIFICATION NO. S-660	B
SHEET _____ OF _____		
<u>aa</u> COMPILED	<u>aa</u> CHECKED	TITLE: TEST PROCEDURE TER-25K-70
<u>OS</u> APPROVED		

TEST PROCEDURE

TER-25K-70

SUPERSEDED
REPLACED BY

S 772

DATE 2/19/62

SHEET 1 OF 2

TMC SPECIFICATION NO. S -660

B

COMPILED

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TITLE: TEST PROCEDURE TER-25K-70

APPROVED

A. General

The TER-25K is a dummy load capable of dissipating 25 Kilowatts of energy over the range of DC to 30 MC. With an input of 25 Kilowatts average power, the peak input must not exceed 50 KW peak to peak. Input power and reflected power are monitored with a 0-60KW directional radio-frequency wattmeter with an accuracy of ± 5 (five) % (per/cent).

Basically, the TER-25K consists of 6 (six) 420 ohm, 3 Kilowatt, ± 5 (five) % (per/cent) resistors. The resistors are special glass cylinders with a resistive element electro-fused into the glass. The protective coating is a baked on silicone film. Electrical connections are made positive by fired-on silver bands.

B. Mechanical Inspection:

1. Inspect for any damage incurred during installation.
2. Inspect straps holding resistors to see that they are tight enough to prevent movement.
3. Check tightness of all other nuts and screws.
4. Check fuses for proper value (2 amps).

C. Electrical Inspection:

1. Check all solder connections.
2. Inspect resistor contacts for good electrical connection.
3. Measure DC resistance of resistor from center connector of output termination to ground (should be $\pm 5\%$ 70 ohms).
4. Measure interlock circuit continuity at the interlock connector; check switches S101, S102 and S103 for proper performance.
5. Check transmitter pilot light continuity through interlock indicator.
6. Apply 110VAC, 60CPS to AC connector, turn AC power switch on, and check fans for correct direction of (Air Flow) rotation.

D. Power Check:

Turn Base fans on and check operation. Connect input of TER-25K to output of GPT-40K. Drive output of transmitter to full power two tones. Check operation of Directional wattmeter, (if it is so equipped) at 24MC. Operate at 20KW average power for at least 10 minutes. Check the operation of all control circuits.

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SHEET 2 OF 2

TMC SPECIFICATION NO. S -660

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TER-25K

CHECK OFF SHEET

-
- _____ (B) _____ (1) Mechanical Connections Secure.
 - _____ (2) All straps connected in proper position.
 - _____ (3) Proper fuses in fuseholders.
 - _____ (C) _____ (1) Wire connections mechanically strong with no cold solder joints.
 - _____ (2) DC Resistance _____ (must be 70 ohms \pm 5%).
 - _____ (3) Interlocks working properly.
 - _____ (4) Switch performing correctly.
 - _____ (5) Pilot light continuity.
 - _____ (6) Airflow in correct direction (up).
 - (D) _____ (1) Power Check
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