

DATE 8 December 1964

SHEET 1 OF 5

TMC SPECIFICATION NO. S-882

0

AM
COMPILED

[Signature]
CHECKED

TITLE:

LB

APPROVED

[Signature]

Typed by mtp

TEST PROCEDURE

for

SWR-10K-50U/PANEL ASSEMBLY

AX-514

DATE 8 December 1964		TMC SPECIFICATION NO. S-882	0
SHEET 2 OF 5			
A M COMPILED	<i>AM</i> CHECKED	TITLE: TEST PROCEDURE FOR SWR-10K-50U/PA AX-514	
<i>LB</i> APPROVED		Typed by mtp	

1.0 GENERAL

The SWR-10K consists of a dual bi-directional radio frequency wattmeter which is capable of monitoring simultaneously the forward and reflected power of a 50 ohm coaxial system. The wattmeter will measure up to ten (10) kilowatts forward power, and monitor a maximum system standing wave ratio of six (6).

2.0 MECAHNICAL INSPECTION

2.1 Check to see that meter pointers are set at zero with meters in upright position, and that zero adjustments are engaged and working.

2.2 Visual:

2.2.1 Check for physical damage to components.

3.0 ELECTRICAL INSPECTION

3.1 Equipment Required:

3.1.1 GPT-40K transmitters, or equivalent 10KW average power source.

3.1.2 50 ohm transmitter load (TER-25K).

3.1.3 10KW standard test coupler.

3.1.4 One multimeter.

4.0 TEST PROCEDURE

4.1 Connect equipment according to diagram in Test Procedure (Fig. 1).

4.2 Rotate both detector elements in coupler to monitor forward power (arrow on detector element pointing to load).

4.3 Tune transmitter to ten (10) megacycles. DO NOT EXCEED FIVE (5) KILOWATTS OUTPUT.

4.4 Check the scale calibration on the dual meter for accuracy.

DATE <u>8 December 1964</u>		TMC SPECIFICATION NO. S-882	0
SHEET <u>3</u> OF <u>5</u>			
AM COMPILED	<i>[Signature]</i> CHECKED	TITLE: TEST PROCEDURE FOR SWR-10K-50U/PA AX-514	
<i>[Signature]</i> APPROVED		Typed by mtp	

4.0 TEST PROCEDURE - Cont'd

4.5 Remove power and rotate the five (5) kilowatt diode to read reflected power.

4.6 Apply power and check the ten (10) kilowatt diode above five (5) kilowatts for accuracy. DO NOT EXCEED TEN (10) KILOWATTS.

4.7 Remove power from equipment and insert a reactive component to load. Apply power and check SWR (Standing Wave Ratio) scale for accuracy.

4.8 Connect meter to Pin 1 of E1, and Pin 1 of E2.

4.8.1 Activate both plungers. Meter will read full scale.

4.9 Remove power and sign off test sheet providing all the above checks are satisfactory and within +5%.

DATE 8 December 1964

SHEET 4 OF 5

TMC SPECIFICATION NO. S-882

0

AM
COMPILED

[Signature]
CHECKED

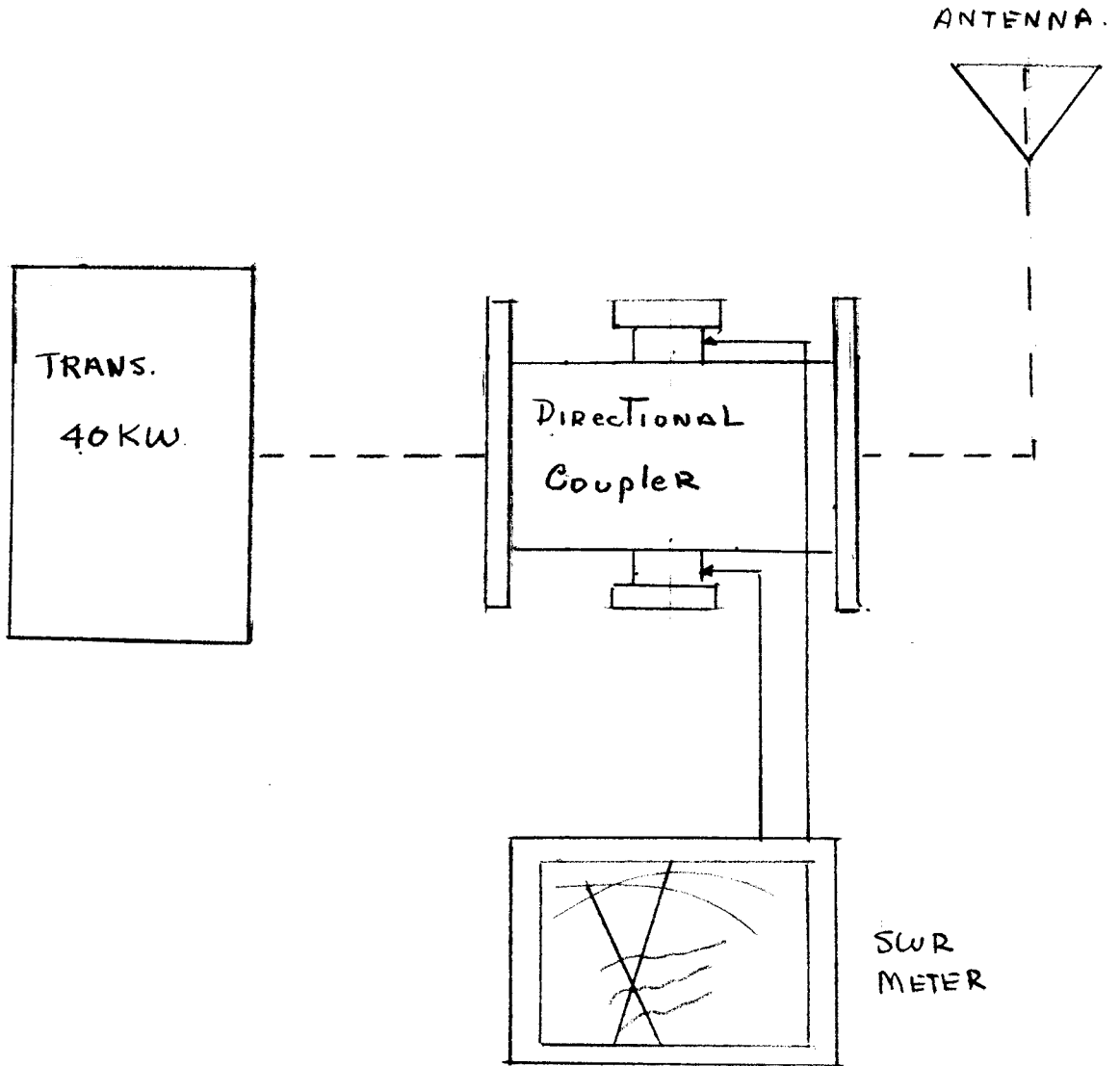
TITLE: TEST PROCEDURE FOR SWR-10K-50U/PA AX-514

[Signature]

APPROVED

Typed by mtp

Figure 1



DATE 8 December 1964

SHEET 5 OF 5

TMC SPECIFICATION NO. S-882

AM
COMPILED

[Signature]
CHECKED

TITLE: TEST PROCEDURE FOR SWR-10K-50U/PA AX-514

[Signature]

APPROVED

Typed by mtp

THE TECHNICAL MATERIEL CORP.
MAMARONECK, N.Y.

TEST DATA SHEET

MFG. NO.: _____

SER. NO.: _____

ACCEPT

A. MECHANICAL:

Meter Zero _____

Visual Check _____

B. ELECTRICAL:

1. Meter Accuracy _____

2. SWR Scale Accuracy _____

3. Continuity Check of Switch
Circuit _____

DATE: _____

TESTER: _____

APPROVED BY: _____

