DATE 8 December 1964	TMC SPECIFICATION NO. S-883	0
SHEET 1 OF		
LB COMPILED / CHECKED	TITLE:	
APPROVED	Typed by mtp	

TEST PROCEDURE

for

SWR-10K-50U

OGILVIE PRESS, INC., BROOKLYN 17, N. Y. STOCK NO. 439M

DATE 8 December 1964 SHEET 2 OF 5	TMC SPECIFICATION NO. S-883	0
LB COMPILED / CHECKED	TITLE: TEST PROCEDURE FOR SWR-10K-50U	
APPROVED		

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).

A. MECHANICAL INSPECTION

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

B. EQUIPMENT REQUIRED

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

2. 50 ohm transmitter load (TER-25K).

3. 10KW standard test coupler.

C. TEST PROCEDURE

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

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

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

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

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

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

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C. TEST PROCEDURE - Cont'd

7. Activating switch on junction box will switch the output of the coupler to the portable meter. Steps 4 through 6 must be repeated for portable meter.

8. Check to see that all the connectors on the remote meter are operable.

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

10. Remove pwer and sign off test sheet, providing all the above checks are satisfactory and within ±5%.

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FIGURE 1

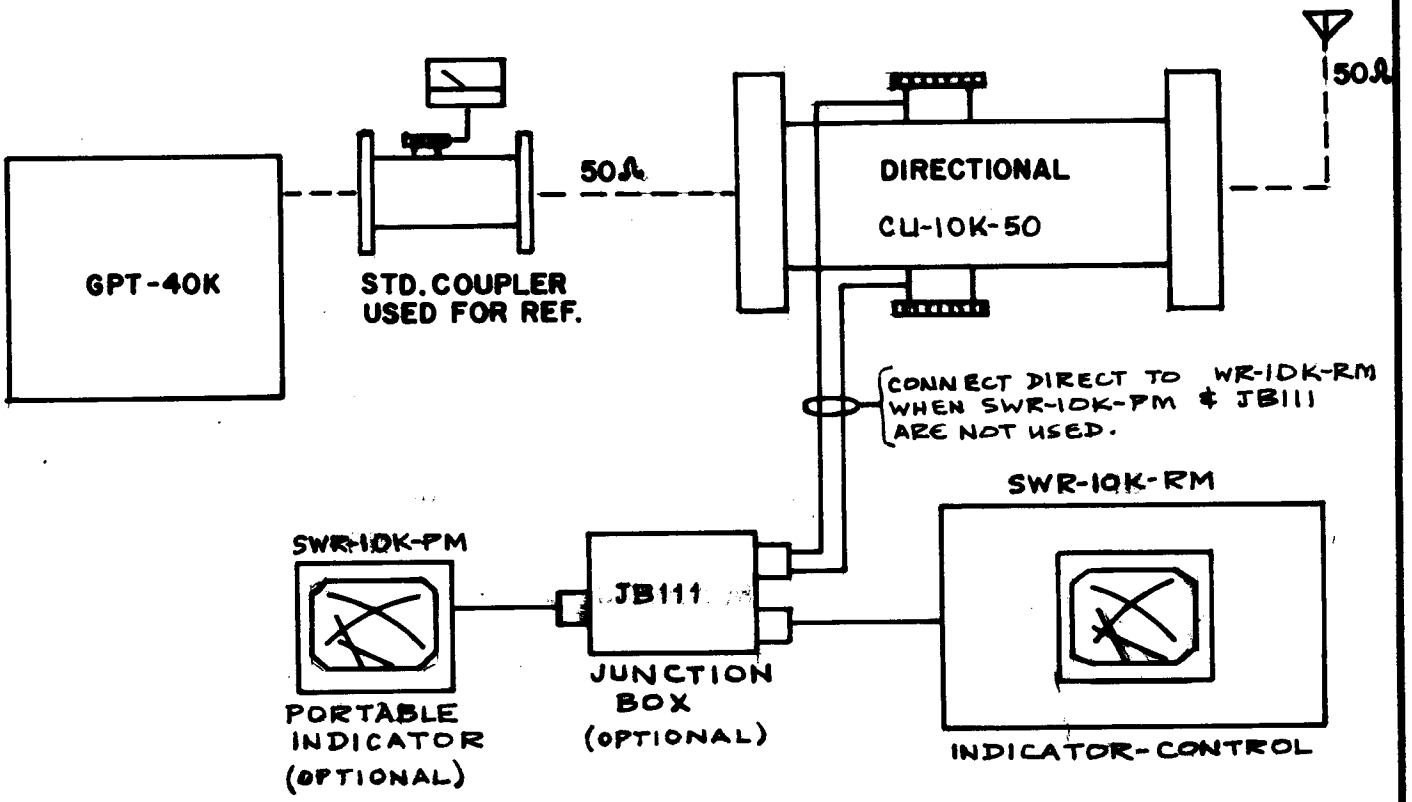

Fig. 1

OGILVIE PRESS, INC., BROOKLYN 17, N. Y. STOCK NO. 439M

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THE TECHNICAL MATERIEL CORP.

MAMARONECK, N.Y.

TEST DATA SHEET

MFG. NO.: _____

SER. NO.: _____

ACCEPT

A. MECHANICAL:

Meter Zero _____

B. ELECTRICAL:

1. Remote meter accuracy _____
2. Portable meter accuracy _____
3. Junction Box _____
4. Aux. Connections (Remote Meter) _____
5. SWR Scale Accuracy _____

DATE: _____

TESTER: _____

APPROVED BY: _____

OGILVIE PRESS, INC., BROOKLYN 17, N. Y. STOCK NO. 430M

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S-883

LIST NO. 0

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
12/17/64		1 of 5		0= ORIGINAL RELEASE FOR PRODUCTION.	