

DATE <u>1/21/63</u>		TMC SPECIFICATION NO. S-748
SHEET <u>1</u> OF <u>5</u>		
J.P.S. COMPILED	<i>MP</i> CHECKED	TITLE:
APPROVED <i>BP</i>		

TEST PROCEDURE DDR-6H

DATE 1/24/63  
SHEET 2 OF 5

# TMC SPECIFICATION NO. S -748

J.P.S.  
COMPILED

M.P.  
CHECKED

TITLE: TEST PROCEDURE DDR-6H

APPROVED

## I. INTRODUCTION.

The DDR-6H is a receiving system primarily designed for ISB reception. It is also capable of receiving AM, CW, and FXK.

## II. COMPONENT PARTS

The DDR-6H consists of the following rack mounted units.

- 1) RAK-16C Cabinet Electrical Equipment.
- 2) LSP-7 Loudspeaker Panel.
- 3) GPR-9CRXD Receiver.
- 4) MSR-4 2 per; Single Sideband Converter.
- 5) SFP-2 Filter Panel.
- 6) CFA-1 Frequency Shift Converter
- 7) DCP-1 Diversity Control Power Panel.

## III. TEST EQUIPMENT REQUIRED

- 1) RF Signal Generator-Measurements Model 82 or equivalent.
- 2) A.C. Line Cord.
- 3) R.F. Cable Rg 59/U
- 4) Teleprinter and interconnect cable, if available.
- 5) Antenna
- 6) 60 MA power supply TMC. PSP-1 or equivalent.
- 7) VOM Simpson Model 260 or equivalent.

## IV. PROCEDURE

- 1) Connect the A.C. line cord.
- 2) Set the MAIN POWER circuit breaker on the DCP-1 to ON.
- 3) Connect the signal generator to the ANT, 72 ohm, jack on the GPR. Set SSB switch to ON.

DATE 1/24/63  
SHEET 3 OF 5

# TMC SPECIFICATION NO. S -748

J.P.S.  
COMPILED

*MP*  
CHECKED

TITLE: TEST PROCEDURE DDR-6H

APPROVED

- 4) Set the signal generator output at 10 MC modulated by a 1000 CPS tone.
- 5) Set output switch on MSR's to low position. Turn on the GPR and upper MSR. The red power indicator should light.
- 6) Set the SFP to PANEL OUT position for both channels and LSP volume controls to mid position.
- 7) Set controls of MSR as per Chart 1. With MSR in USB position tune for audio tone on loudspeaker.
- 8) Switch to LSB position. Retune for audio tone. Turn volume control on LSP counter-clockwise.
- 9) Repeat Steps 5, 6, 7, and 8 with lower MSR.
- 10) Check for .775V level on terminals 5, 6, 7 and 8 of TB-601 - on RAK-16C
- 11) Disconnect the signal generator. Turn SFP CH-1 and CH-2 to Filter Out position.
- 12) Connect the 60 MA TTY loop from terminals 3 and 4 of TB-601 to the teleprinter.
- 13) Connect terminals 1 & 2 of TB-601 to the PSP-1 output if teleprinter does not have its own power supply.
- 14) Turn CFA-1 and PSP-1 on. Red power indicators should light.
- 15) Connect the antenna to GPR.
- 16) Set the Channel 1 switch on the CFA to ON and the selector switch to line and Channel 2 switch OFF.
- 17) Tune GPR for an intelligible teletype signal and observe normal display on CFA screen.
- 18) Repeat Steps 16 and 17 with Channel 2 ON and Channel 1 OFF.
- 19) Turn OFF units and main power switch on DCP. Remove all test equipment.
- 20) Check and fill in Check Sheet. This completes testing of the DDR-6H.

DATE <u>1/24/63</u>		<b>TMC SPECIFICATION NO. S -748</b>
SHEET <u>4</u> OF <u>5</u>		
J.P.S. COMPILED	<i>N.P.</i> CHECKED	TITLE: <u>TEST PROCEDURE DDR-6H</u>
APPROVED		

CHART I

<u>CONTROLS</u>		<u>SETTING</u>
Bandspread		Tune to Audio
Manual/XTAL		Manual
BFO ON/OFF		OFF
AVC ON/OFF		ON
AVC FAST/SLOW		SLOW
Audio Gain		Normal Level
Power/OFF		ON
Sideband		USB OR LSB

DATE 1/24/63  
SHEET 5 OF 5

# TMC SPECIFICATION NO. S -748

J.P.S.  
COMPILED

*M.P.*  
CHECKED

TITLE: TEST PROCEDURE DDR-6H

APPROVED

THE TECHNICAL MATERIAL CORPORATION  
MAMARONECK, N.Y.

## DDR-6H DATA SHEET

SERIAL NO. \_\_\_\_\_

MFG. NO. \_\_\_\_\_

### PROCEDURE

AC POWER TO DCP-1	_____	OK.
AC POWER TO GPR-9ORXD	_____	OK.
AC POWER TO MSR-4 ( )	_____	OK.
AC POWER TO MSR-4 (2)	_____	OK.
AC POWER TO CFA-1	_____	OK.
OPERATION OF LSP-7	_____	OK.
OPERATION OF GPR-9ORXD	_____	OK.
OPERATION OF MSR-4 (1)	_____	OK.
OPERATION OF MSR-4 (2)	_____	OK.
MSR-4 (1) AUDIO LINE LEVEL	_____	OK.
MSR-4 (2) AUDIO LINE LEVEL	_____	OK.
OPERATION OF CFA	_____	OK.

DDR-6H	SER. # _____	MSR-4 (1)	SER. # _____
RAK-16C	SER. # _____	MSR-4 (2)	SER. # _____
LSP-7	SER. # _____	SFP-2	SER. # _____
GPR-9ORXD	SER. # _____	CFA-1	SER. # _____
		DCP-1	SER. # _____

TESTED BY \_\_\_\_\_

DATE \_\_\_\_\_