TMC SPECIFICATION NO. S 420

COMPILED BY

RUSE

TITLE: PRODUCTION TESTING OF TMC MODEL SIM

JOB

APPROVED

1. INTRODUCTION:

The Sideband Monitor consists of two vacuum tube voltmeters used for monitoring the amount of sideband power at the output of the SHE-2 sideband filters. It is desirable to monitor the level at this point because any variations or irregularities of the filter characteristics can be readily seen and compensated for.

2. TEST INSTRUCTIONS:

- A. Proceed as outlined in Test Sequence and Procedure below.
- B. Fill in blanks on report sheet, rejecting those units that do not meet the specifications.

3. TEST SEQUENCE AND PROCEDURE:

PART 1 MECHANICAL INSPECTION:

- A. Inspect the unit for obvious mechanical imperfections.
- B. Inspect the unit for obvious electrical errors.
- C. Carefully inspect the unit for loose screws at critical points.
 Most carefully inspect for loose screws on grounding points such as tube socket nut straps and ground lugs.

PART 2 PRELIMINARY TEST:

- A. Connect unit to power line and energize the set.
- B. Observe: All filament and pilot lamp illuminated. V.R. tube conducting.

PART 3 LOWER SIDEBAND METER AMPLIFIER:

A. Connect a H. P. Model 200-CD Audio Generator and AC VTVM to Jh00 (LSB input) through a 22,000 Ω resistor. Connect 100 Ω resistor from Jh00 to ground. With generator set to 1.000 Kc adjust output of generator until .00h VAC appears at Jh00. Set Rh17 (LSB cal. Control) to maximum. LSB VU meter should read approximately. 5 db.

FORM -- 100

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TMC

SPECIFICATION NO. 5420

TITLE: PRODUCTION TESTING OF TMC MODEL SLM

JOB

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Turn R417 to minimum. VU meter should read-/2 db.

- B. Connect audio generator and AC VTVM to Jh01 through a 22,000 ohm resistor. Connect 100 ohm resistor from Jh01 to ground. Set generator to 1.000 Kc and adjust output for .00h VAC at Jh01. Set Rh07 (USB cal. control) to maximum. USB VU meter should read approximately+2.5db. Turn Rh07 to minimum. VU meter should read-12db.
- C. Using a coaxial "TEE", join both inputs together and vary generator output level while watching both level indicators.

 No severe nonlinearity should be accepted. Any variation greater than 1/4 db should not be tolerated. The cause will generally be found to be large internal difference in one of the meters or vacuum tubes.

DATE)F_3			TMC	SP	SPECIFICATION			NO.	S 420
COMPLED BY		TITLE:	TMC	SPECIFICAT	ION FO	R MODEI	SIM	TEST S	HEET	JOB
APPROVED										
								AC	CEPT	
1.	General	Inspe	ction							
2.	Continu	lity Te	st							
3•	Resista	ance Te	st							
4.	Lower Sideband, Meter									
	LSB Cal	librate	Cont	rol Max.		db				
	LSB Cal	lbirate	Cont	rol Min.		db				
5•	Upper S	Sideban	d, Me	ter						
	USB Cal	Librate	Cont	rol Max.		db				
	USB Cal	Librate	Cont	rol Min.	600 em ago gra	db				
6•	USB and	ISB M	eters							•
	Both me	ters c	nnec	ted in par	allel	must re	ad eq	ual wit	thin 1/2	db
	SERIAL	NO.							• ·	
	ACCEPTE	D								
	TESTED	BA								
	DATE	Collinsion								