DATE 3/29/63
SHEET 1 OF 5

TMC SPECIFICATION NO. S -779

RDV. COMPILED

CHECKED

TITLE:

APPROVED

AX-433 TEST PROCEDURE
(VLRA-1) POWER SUPPLY

DATE 3/29/63
SHEET 2 OF 5

TMC SPECIFICATION NO. S -779

C

RDV COMPILED

CHECKED

TITLE: AX-433 TEST PROCEDURE

(VLRA-1) POWER SUPPLY

APPROVED

A. TEST EQUIPMENT REQUIRED:

1. Simpson 260 VOM or equivalent.
2. AC Ballantine Voltmeter Model 300 D or equivalent.
3. Test-Jig, including 24 volt Battery, capable of delivering .5AMP (See Sheet 4).
4. POWERSTAT Superior Electric Type 116 or equivalent.

B. PRELIMINARY:

*1. Inspect the unit for mechanical imperfections such as loose screws, components, cold solder joints etc.
*2. Inspect for obvious wiring errors.

C. AC INPUT OPERATION:

1. Connect test-jig to power supply as shown on sheet 4.
2. Batt. switch to "out" position.
3. "Load selector switch" to 480ma position.
4. Connect AC plug to 115V 50/60cps. The POWER light should go on.
*5. Measure 24V + 5%,-0 across the two 25 ohm,10w, resistors, connected in series.
*6. Measure 12V + 15%,-0 across each 25 ohm resistor.
7. Switch: "Load selector switch" to 40ma position.
*8. Measure 24V +5%,-0,across the two 270 ohm 2w resistors connected in series. This voltage should not exceed the voltage obtained in Step 5, by more than 0.5 volts.
*9. Measure 12V + 15%-0 across each 270 ohm resistor.
*10. Measure a ripple voltage of no more than 5 MV across each 270 ohm resistor.
*11. NOTE: THAT BATTERY LIGHT IS OFF AT ALL ABOVE STEPS.

D. DC REGULATION:

1. Load selector switch to 480ma.
2. Remove AC leads from terminals 1 and 2 of E1 and connect powerstat. Plug into AC line and switch on.
3. Vary the AC input from 103V to 128V.
*4. The voltage measured in section C, step 3, should not vary more than 1%.

E. BATTERY OPERATION:

1. Batt. switch to "in" position.
2. Measure 13V ±5% across each 270 ohm resistor. (This voltage will be dependent on the battery voltage.)
*3. Unplug the AC plug, a relay click should be heard, emanating from the power supply relay. At the same time the battery light should go on and the power light should go off.

* RECORD ON DATA SHEET

DATE 3/29/63

SHEET 3 OF 5

RDV. COMPILED

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TMC SPECIFICATION NO. S -779

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TITLE: AX-433 TEST PROCEDURE

(VLRA-1) POWER SUPPLY

*4. Measure 13V $\pm$5% across each 270 ohm resistor. (This voltage will be dependent on the battery voltage).

*5. Connect the AC plug to 115V 50/60 cps. The **BATTERY** light should go off and the **POWER** light should go on.

*6. Disconnect the minus lead from the battery, measure 28V $\pm$5% across the two 270 ohm resistors connected in series.

*7. Reconnect the minus lead to the Battery and observe the 28V from step 6 go down to 26V $\pm$5%.

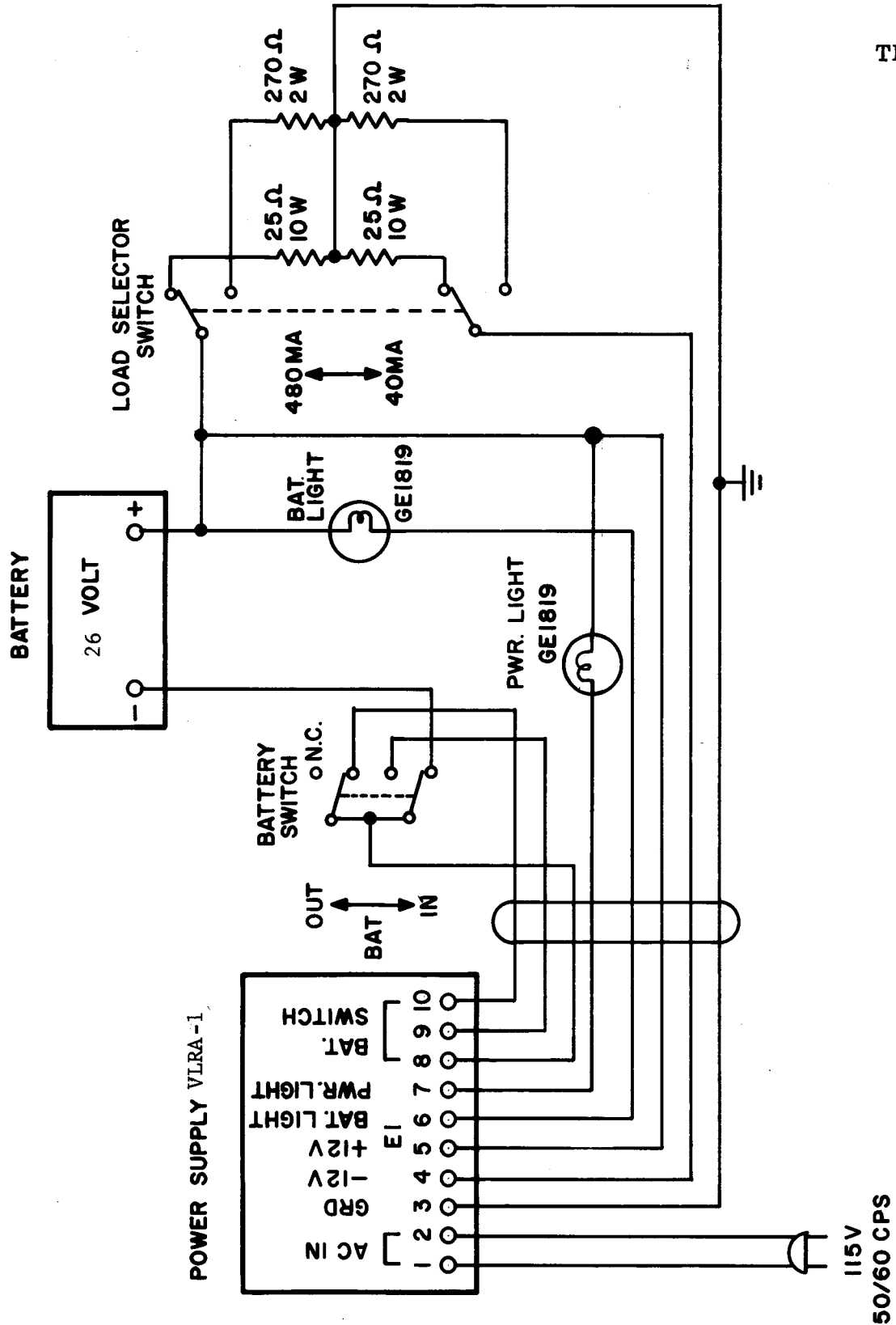THIS COMPLETES THE PRODUCTION TESTING ON THE POWER SUPPLY VLFC-1.

DATE 4-2-63
SHEET 4 OF 5

RDV COMPILED
N.P. CHECKED
APPROVED

TMC SPECIFICATION NO. S-779

TITLE: AX-433 TEST PROCEDURE

(VLRA-1) POWER SUPPLY

C

TEST JIG

N. P.
COMPILED | CHECKED NP

TITLE: AX-433 TEST PROCEDURE

(VLRA-1) POWER SUPPLY

APPROVED

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, N.Y.

AX-433 TEST DATA SHEET
(VLRA-1) POWER SUPPLY

SERIAL NO._____

MFG. NO._____

B. 1. Mechanical check _____ OK.
   2. Wiring check _____ OK.

C. 4. With AC plug in, the Power light should go on._____ OK.
   5. 24V+5%,-0 across the two 25 ohms on test jig._____ volts.
   6. 12V+2.5%,-0 across each 25 ohm resistor on test jig.____ & ____ volts.
   8. 24V+5%,-0 across the two 270 ohms on test jig.____ & ____ volts.
   9. 12V+2.5%,-0 across each 270 ohm on test jig.____ & ____ volts.
   10. Voltage ripple; not more than 1MV across each 270 ohm ____ & ____ volts.

D. 4. DC voltage regulation 1% or better _____ OK.

E. 3. With AC plug out, the BATTERY light should go on._____
      AND the POWER light should go off._____ OK.
   4. Half of battery voltage $\pm$5% across each 270 ohm. ____ & ____ volts
   5. With AC plug in the BATTERY, light should go off and
      the POWER light should go on._____ OK.
   6. 28V. $\pm$5% across the two 270 ohm(minus battery lead off)._____ volts
   7. 26V. $\pm$5% across the two 270 ohm(with minus battery lead on)._____ volts.

DATE _____

TESTER _____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK   NEW YORK

S779

LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION	APP.
11/24/64	A	2,5	12530	REVISED SHT.2,5 PER EMN	_L6_
1/29/65	B	2	13351	Revised sht. 2 per EMN	_L6_
11/14/66	C	all	17249	Revised per EMN	_aL._
	THE TECHNICAL MATERIEL CORP.				
	MAMARONECK NEW YORK				
				REVISED SHT.2,5 PER EMN	_L6_