

DATE <u>4/17/62</u>		TMC SPECIFICATION NO. S	628	A
SHEET <u>1</u> OF <u>4</u>				
R.K. COMPILED	<i>R.K.P.</i> CHECKED	TITLE: SBS-1&2, MFP-1 POWER SUPPLY TEST PROCEDURE		
APPROVED <i>[Signature]</i>				

SBS-1&2, MFP-1 POWER SUPPLY TEST PROCEDURE

DATE 4-17-62

SHEET 2 OF 4

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TITLE: SBS-1&2, MFP-1 POWER SUPPLY TEST PROCEDURE

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I INTRODUCTION: The SBS power supply is designed to furnish A, B+, C-, oven heater and primary AC voltages to TMC Models SBS-1, AFC-2 and HFR-1 when the SBS-1 is used in combination with either one or both of the other two. This test procedure should thoroughly insure proper operation of the power supply if passed successfully,

II EQUIPMENT REQUIRED:

1. AVO Meter, calibrated to $\pm 1\%$. Record on test data sheet.
2. DAVEN model 170 VTVM or equiv. Record on test data sheet.
3. Variac, 500 watts minimum power capability.
4. SBS Power Supply Test Jig.
5. Line cord.
6. Timing Device, (Watch, Clock etc.)

III PROCEDURE:

1. Connect the power cables extending from the rear of the Test Jig to the power supply under test.
 2. Set S1 on the Test Jig to the OFF position.
 3. Set S2 on the Test Jig to the AFC FIL. position.
 4. Set the SBS switch to the INT. position.
 5. Set the Variac output at 115 volts. Set the Variac OFF.
 6. Connect the line cord from the Variac output to J7001 on the power supply under test.
 7. Connect the AVOMETER between the GND and B+ test points on the Test Jig so as to read + 250 volts DC full scale.
 8. Note the time on the timing device being used and set the Variac to ON. The following results should be obtained immediately:
 - * a) The HFR AC indicator should light.
 - * b) The AFC AC indicator should light.
 - * c) The SBS OVEN HTR. indicator should light.
 - d) The fan within the Test Jig should start running.
- After a period of not less than 30 seconds, the following should be obtained:
- * e) The fan within the power supply should start running.
 - f) I2 on the Test Jig should light. (RED)
 - g) The meter should read between 150 and 230 volts.
- 9.* Adjust the VOLTAGE ADJ. potentiometer on the power supply for a 200 volt reading on the meter.
 - 10.* Remove all the B+ fuses from the Test Jig. The output should not vary more than + 1 volt. Replace fuses.
 - 11.* Vary the output of the Variac from 105 to 125 volts. The meter reading should not vary more than + 1 volt.
 - 12.* Set S2 to the HFR FIL. position. I2 should remain lit.
 - 13.* Set S2 to the CHAN. B FIL. position. I2 should remain lit.
 - 14.* Set S2 to the CHAN. A FIL. position. I2 should remain lit.

* RECORD ON TEST DATA SHEET.

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SHEET 3 OF 4

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15. * Set S2 to the FIL. LINE position. I2 should remain lit.
16. * Set S1 to the AFC C- position. I1 should light dimly.
17. * Set S1 to the AFC B+ position. I1 should light brightly.
18. * Repeat steps 15 & 16 for SBS and HFR B+ and C- positions.
19. * Return S1 to OFF and S2 to AFC FIL. I1 should go out but I2 should remain lit.
20. Remove the AVOMETER.
21. Set the AVOMETER to read -250 volts full scale.
22. * Place the meter between the GND and C- test points on the Test Jig. The meter should read -105 ± 5 volts.
23. * Vary the output voltage of the Variac from 105 to 125 volts. The meter should not vary more than ± 1 volt.
24. Remove the AVOMETER.
25. * Place the DAVEN VTVM between the GND and B+ test points on the Test Jig. The meter should read less than 50 millivolts.
26. * Place the DAVEN VTVM between the GND and C- test points on the Test Jig. The meter should read less than 5 MV. Remove meter.
27. Set S1 in any B+ position. I1 should light.
28. * Remove F7001 from the power supply. I1 should go out.
29. Set S1 in any C- position. I1 should light.
30. * Remove F7003 from the power supply. I1 should go out.
31. * Remove F7002 from the power supply. The following results should be obtained:
 - a) All remaining indicators on the Test Jig should go out.
 - b) The fans within the power supply and Test Jig should stop running.
32. Set Variac to OFF.
33. Replace fuses and remove all test equipment. This completes production testing of the SBS power supply.

* RECORD ON TEST DATA SHEET

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SHEET 4 OF 4

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THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, N. Y.

SBS-1&2, MFP-1 POWER SUPPLY TEST DATA SHEET

SERIAL NO. _____
MFG. NO. _____

- | | | | |
|-----|---|-------|-------|
| 8. | (a) HFR 115VAC Voltage | _____ | OK |
| | (b) AFC OVEN HTR. Voltage | _____ | OK |
| | (c) SBS OVEN HTR. Voltage | _____ | OK |
| | (e) TIME DELAY RELAY | _____ | OK |
| 9. | B+ VOLTAGE ADJ. for 200 Volts | _____ | OK |
| 10. | FULL LOAD TO NO LOAD, Regulation +1 Volt | _____ | OK |
| 11. | VARIATION OF LINE VOLTAGE, Regulation +1 Volt | _____ | OK |
| 12. | HFR. FIL. | _____ | OK |
| 13. | SBS CHAN. B FIL. | _____ | OK |
| 14. | SBS CHAN. A FIL. | _____ | OK |
| 15. | SBS FIL. LINE | _____ | OK |
| 16. | AFC C- Voltage | _____ | OK |
| 17. | AFC B+ Voltage | _____ | OK |
| 18. | SBS & HFR B+&C- Voltage | _____ | OK |
| 19. | AFC FIL. | _____ | OK |
| 22. | C- VOLTAGE -105V +5 Volts | _____ | VOLTS |
| 23. | C- VOLTAGE, Regulation +1 Volt | _____ | OK |
| 25. | B+ HUM LEVEL (less than .05 Volts) | _____ | VOLTS |
| 26. | C- HUM LEVEL (less than .005 Volts) | _____ | VOLTS |
| 28. | B+ fuse check | _____ | OK |
| 30. | C- fuse check | _____ | OK |
| 31. | MAIN fuse check | _____ | OK |

DATE _____
TESTER _____

