

GE Power Generation Engineering

PROCESS SPECIFICATION

Materials and Processes Engineering Schenectady, NY 12345

P3K-AL-0387-A01

TEST INSTRUCTIONS FOR POWER LOAD UNBALANCE TRANSFORMER CIRCUIT BOARD

REV.	AN NO.	DESCRIPTION	SIGNATURE	REV. DATE
A	YA00096	SPECIFICATION LISTED IN STEAM TURBINE/GENERATOR INDEX AS "INACTIVE" HAS BEEN FORMALLY REVISED AS "INACTIVE FOR NEW DESIGN". (PR BUDKA)	C.R. Trippel	PEC 0 2 16
		INACTIVE FOR NEW DESIGN AS OF 12/02/91		
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ORIG. ISSUE DATE:

P.R. BUDKA

(ASS'Y DRAWING 118D1318 G1)

TITLE
TEST INSTRUCTIONS FOR POWER LOAD UNBALANCE
TRANSFORMER CIRCUIT BOARD 1PU1-B101

FIRST MADE FOR EHC MARK II

REVISIONS

I. CIRCUIT DESCRIPTION

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SH NO.

This circuit board contains three current transformers 5A/3.88 ma (RMS) 45 to 70 HZ, which provide the current signals to the Power Load Unbalance.

Zener diodes are connected across the transformer outputs to limit the output voltage to 120V should the load circuits accidentally open.

II. CIRCUIT SPECIFICATIONS

1. Transformer Ratios

A 5A RMS, 60 HZ sine wave input should produce a 3.88 \pm 0.08 ma RMS sine wave output into a load of 1.4 to 5.8K ohms.

2. Output Voltage Limits

The maximum value of the output voltage of each transformer with 5A RMS input and no load connected across it (open-circuited) should be $120V \pm 20\%$ (both polarities).

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APPROVALS

Steam Turbine

Schenectady, N.Y.

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P3K-AL-0387-A01

4sh No. 3

TEST INSTRUCTIONS FOR POWER LOAD UNBALANCE TRANSFORMER CIRCUIT BOARD 1PU1-B101

FIRST MADE FOR

EHC MKII

TEST INSTRUCTIONS 1PU1-B102

118D1318 Assembly

Schematic 173B6549

PROCEDURE:

- Refer to Fig. A for test circuit.
- Refer to Fig. B for equipment list and setup instructions.

NOTE: All settings and specifications are + 1 MV unless otherwise specified.

- Apply load of 1.4K at RL1, RL2 and RL3.
- Apply 5A RMS into transformer primaries.
- Measure 5.320 to 5.544 VRMS across each load.
- 6. Remove input current.
- Change loads to 5.8K at RL1, RL2 and RL3. 7.
- Apply 5A RMS into transformer primaries.
- Measure 22.040 to 22.968 VRMS across each load.
- 10. Remove input current.
- 11. Remove loads.
- 12. Apply 5A RMS into transformer primaries.
- Measure 96.0 to 144.0 VRMS across each load. 13.
- 14. Remove input currents.

APPROVALS

15. End of Test.

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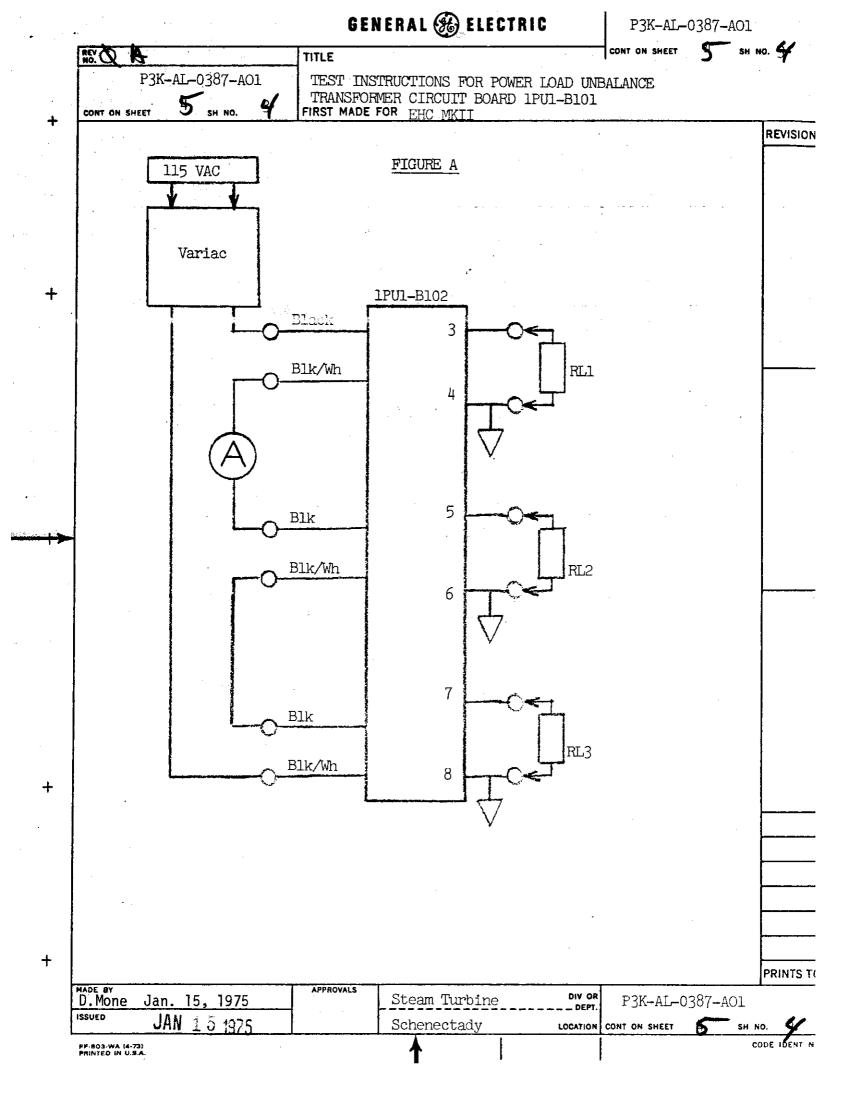
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REVISION

P3K-AL-0387-A01

6 SH NO.

TEST INSTRUCTIONS FOR POWER LOAD UNBALANCE TRANSFORMER CIRCUIT BOARD 1PU1-B101

FIRST MADE FOR

FIGURE B

EQUIPMENT NEEDED

- A. DVM AC/DC SD7205A
- B. Variac
- C. AC Ammeter 0 10A

SETUP INSTRUCTIONS

- 1. The load to be applied to the circuit under test is \pm 1% tolerance.
- 2. Use the variac to adjust the AC input current.

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