



GE Power Generation Engineering

Materials and Processes Engineering
Schenectady, NY 12345

PROCESS SPECIFICATION

P3K-AL-0134-A01

INSTRUCTIONS FOR TESTING COMBINED MAX-FLOW LIMIT CIRCUIT BOARD

DOCUMENT REVISION STATUS: DETERMINED BY THE LAST ENTRY IN THE "REV" AND "DATE" COLUMN

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. Tripp	DEC 02 1991
<div>INACTIVE FOR NEW DESIGN AS OF 12/02/91</div>				

© COPYRIGHT 1991 GENERAL ELECTRIC COMPANY

PROPRIETARY INFORMATION - THIS DOCUMENT CONTAINS
PROPRIETARY INFORMATION OF GENERAL ELECTRIC
COMPANY AND MAY NOT BE USED OR DISCLOSED TO
OTHERS. EXCEPT WITH THE WRITTEN PERMISSION OF
GENERAL ELECTRIC COMPANY.

PREPARED BY: P.R. BUDKA

ORIG. ISSUE DATE: --

REV NO. 4	TITLE INSTRUCTIONS FOR TESTING COMBINED MAX-FLOW LIMIT CIRCUIT BOARD	CONT ON SHEET 3	SH NO. 2
P3K-AL-0134-A01	FIRST MADE FOR 947D374 G-5	CONT ON SHEET 3	SH NO. 2

REVISIONS

SCOPE

This instruction provides a method for performing a functional check with the necessary adjustments for the subject circuit board prior to the installation in the EHC Cabinet. RI will require further trimming when the circuit board is installed in the EHC Cabinet.

TEST PROCEDURE

1. Examine the circuit board to see that the electrical components are printed circuit board are not physically damaged.
2. Plug in circuit board no. 947D374 G-5 into the test fixture.
3. Use an Ohm-Meter to check that there are no shorts between any combinations of pins 19, 21, 38 and 40.
4. Connect resistors between pins as follows:
 - 1.8K 1 watt between pins 38 and 23
 - 1.8K 1 watt between pins 38 and 5
 - 2.2K 1 watt between pins 23 and 19
 - 7.25K 1 watt between pins 5 and 19
5. Connect an adjustable 5.0K Ohm Potentiometer between pins 22 and 19. The slider connected to pin 7. Connect the Potentiometer electrically such that the slider is shorted to pin 22. When the Potentiometer is in the full clockwise position. This Potentiometer will be referred to as RA.
6. Connect the input of a high gain DC Op-Amp to pin 13 and output to pin 31.
7. Connect the input of a second high gain DC Op-Amp to pin 3 and output to pin 1.
8. Connect a HQ +30.0 volt DC power supply to pin 38. The negative to pin 19.
9. Connect a HQ -22.0 volt DC power supply to pins 21 and 40. The positive to pin 19.
10. All voltage measurements will be made with respect to test point TP11.
11. Turn RA to its full counterclockwise position.
12. Connect TP2 to ground. The voltage at pin 5 should be between +2.4 and +2.6 volts. The voltage at pin 23 should be between -0.1 and +0.1 volts.

COPYRIGHT 1983 GENERAL ELECTRIC CO.

PRINTS TO

MADE BY D. Decker June 2, 1971	APPROVALS	Steam Turbine	DIV OR DEPT.	P3K-AL-0134-A01
ISSUED June 3, 1971		Schenectady, N.Y.	LOCATION	CONT ON SHEET 3 SH NO. 2

REV. NO. ① A	TITLE INSTRUCTION FOR TESTING COMBINED MAX-FLOW LIMIT CIRCUIT BOARD	CONT ON SHEET 4	SH NO. 3
P3K-AL-0134-A01	FIRST MADE FOR 947D374 G-5		
CONT ON SHEET 4	SH NO. 3		

REVISIONS

TEST PROCEDURE (continued)

13. Remove the 1.8K resistor between pins 38 and 5. The voltage at pin 23 should be greater than +5.0 volts.
14. Replace the 1.87K resistor between pins 38 and 5.
15. Remove the signal ground from TP2.
16. Set RA for -0.625 volts as measured at TP2.
The voltage at pin 5 should be between +3.35V and 3.65 volts. The voltage at pin 23 should be between -0.1 and +0.1 volts.
17. Turn RA to the full clockwise position.
18. Adjust R1 for -5.02 volts at TP2.
19. Remove all test equipment and board from test fixture.

61-273
 273-2
 273-12
 273-132
 273-138
 273-71
 R2A
 PRINTS TO

MADE BY D. DeNiro June 2 1971	APPROVALS	DIV OR DEPT. Steam Turbine	P3K-AL-0134-A01
ISSUED June 3, 1971		LOCATION Schenectady, N.Y.	CONT ON SHEET 4 SH NO. 3
FF-803-WA (1-70) PRINTED IN U.S.A.		CODE IDENT NO 1170	

REV NO. ① A
 P3K-AL-0134-A01
 CONT ON SHEET == SH NO. 4

TITLE
 INSTRUCTION FOR TESTING COMBINED
 MAX-FLOW LIMIT CIRCUIT BOARD
 FIRST MADE FOR 947D374 G-5

CONT ON SHEET == SH NO. 4

REVISIONS

PREPARED BY

H. Keller

DATE

4/21/71

H. Keller

CONTROL DESIGN ENGINEERING

APPROVED BY

R. Dellorfano

DATE

5/1/71

R. Dellorfano

EHC TEST ENGINEER

APPROVED BY

P.C. Callan

DATE

5-20-71

P.C. Callan - MANAGER

CONTROL DESIGN ENGINEERING

KT-273
 273-2
 273-12
 273-132
 273-138
 273-71
 R2A

PRINTS TO

MADE BY *D. Dellorfano* June 2, 1971
 ISSUED *June 3, 1971*

APPROVALS

Steam Turbine

DIV OR
 DEPT.

P3K-AL-0134-A01

Schenectady, N.Y.

LOCATION

CONT ON SHEET

SH NO.

4

CODE IDENT NO