METER AMPLIFIER CIRCUIT BOARD TEST EHC TEST

FIRST MADE FOR BD. 996D996 G-1

31 JAN 1984

REVISIONS

A. GENERAL DESCRIPTION

The meter amplifier board has 6 voltage follower amplifiers all of which are designed to be used with a standard G.E. panel ammeter, 1 MA movement. Four of the amplifier circuits (IC2, IC3, IC4, and IC6) are designed to give full scale readings at 5 VDC; one (IC1) for 1 VDC full scale, and one (IC5) gives a full scale reading at 100 MV DC.

ACTIVE FOR G-1

BY JJC DATE 3-10-95

B. TEST EQUIPMENT

1. DVM
2. Ohmmeter
3. Variable Power Supply

C. TEST PROCEDURE

Input voltages should be set to ± 10 MV DC.

Output voltages should read within ± 100 MV DC of stated values unless otherwise specified.

D. POWER SUPPLY TEST

1. Connect +30 VDC HQ, -22 VDC HQ, and ground HQ to their respective pins.
2. TP8 and all points A should read +15 ± .75 VDC. TP7 and all points B should read -15 ± .75 VDC.

E. METER AMPLIFIER TEST

G on meter to output

1. Connect a 0 to 1 Ma movement panel meter to the output of IC1. TP2
2. Ground TP5 and adjust R5 for zero deflection on the panel meter.
3. Apply +1.0 VDC at TP5 and adjust R2 for the full scale delfection on the panel meter. on Pin 2
4. Remove the meter from IC1 and connect it to the output of IC5. TP14E
5. Ground TP10 and adjust R8 for zero deflection on the panel meter. Pin 30
6. Apply +.100 VDC to TP10 and adjust R11 for the full scale deflection on the panel meter. on Pin 38

ET-273
273-2
273-12
273-13
273-13
273-71
R2A
PRINTS TO

MADE BY D. DENORA DEC. 13, 1971

ISSUED DEC 14 1971

APPROVALS

Steam Turbine DIV OR DEPT.

Schenectady, N.Y. LOCATION

P3K-AL-0035-A01

CONT ON SHEET 2 SH NO. 1

FF-803-WA (11-70)
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CODE IDENT NO

E. METER AMPLIFIER TEST

7. Remove the meter from IC5 and connect it to the output of IC2. TP3

8. Ground TP6 and adjust R4 for zero deflection on the panel meter.

9. Apply +5.0 VDC to TP6 and adjust R3 for the full scale deflection on the panel meter. on Pin 8

10. Repeat steps 7 through 9 for IC3, IC4, and IC6; using their corresponding test points and resistors.

11-12-13 IC3 TP4 to gr TP1 - For 0 on meter with R6

5 VDC AT TP4 Full scale on meter AT Pin 5 with R1

14-15-16 IC4 TP12E to gr TP15E For 0 on meter with R7

5VDC AT TP12E Full scale on meter AT Pin 39 with R12

17-18-19 IC6

TP9 To gr TP13E For 0 on meter with R9

5VDC AT TP9 Full scale on meter AT Pin 35 with R10

TEST COMPLETE

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REV NO.

P3K-AL-0035-A01
CONT ON SHEET -- SH NO. 3

TITLE

METER AMPLIFIER CIRCUIT BOARD TEST

FIRST MADE FOR BD. 996D996 G-1

REVISIONS

PREPARED BY Ted Jennings DATE 12/7/71

T. Jennings
I&SE Trainee

CHECKED BY R E Squillace DATE 12-8-71

R.E. Squillace
CONTROL DESIGN ENGINEERING

APPROVED BY R Dellorfano DATE 12-8-71

R. Dellorfano
EHC TEST ENGINEER

APPROVED BY P C Callan DATE 12-7-71

P.C. Callan - MANAGER
CONTROL DESIGN ENGINEERING

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PRINTS TO

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ISSUED DEC 14 1971

APPROVALS

Steam Turbine DIV OR DEPT.
Schenectady, N.Y. LOCATION

P3K-AL-0035-A01
CONT ON SHEET --- SH NO. 3

FF-803-WA (11-70)
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IITC

CODE IDENT NO.

Data Sheet

Job # _____

Serial # _____

Date _____

Burn-in Start _____

Data Sheet for __996D996G0001_____

Burn-in Stop _____

Test Procedure __P3K-AL-0035-A01_____

Technician _____

Test Procedure Step	Nominal	Lower Limit	Pre-Burn in Results	Post Burn in Results	Upper Limit	Pot Values If applicable CW	CCW	Pass/Fail
D2	+15VDC	+14.25V			+15.75V			
	-15VDC	-15.75V			-14.25V			
E2	0mA	-			-	-	-	
E2 - R5	-	-	-	-	-			
E3	1mA	-			-	-	-	
E3 - R2	-	-	-	-	-			
E5	0mA	-			-	-	-	
E5 - R8	-	-	-	-	-			
E6	1mA	-			-	-	-	
E6 - R11	-	-	-	-	-			
E8	0mA	-			-	-	-	
E8 - R4	-	-	-	-	-			
E9	1mA	-			-	-	-	
E9 - R3	-	-	-	-	-			
E12	0mA	-			-	-	-	
E12 - R6	-	-	-	-	-			
E13	1mA	-			-	-	-	
E13 - R1	-	-	-	-	-			
E15	0mA	-			-	-	-	
E15 - R7	-	-	-	-	-			
E16	1mA	-			-	-	-	
E16 - R12	-	-	-	-	-			
E18	0mA	-			-	-	-	
E18 - R9	-	-	-	-	-			
E19	1mA	-			-	-	-	
E19 - R10	-	-	-	-	-			

1/9/2012

CW