

GE Power Generation Engineering

PROCESS SPECIFICATION

Materials and Processes Engineering Schenectady, NY 12345

P3K-AL-0335-A01

| BOARD | TEST | SPECIFICATION | - | VOLTAGE | SENSOR | 22 | VDC | 1P3-E001 | L |
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| A | YA00096 | INDEX AS | ATION LISTED IN STEAM TURBINE/GENERAT "INACTIVE" HAS BEEN FORMALLY REVISED TIVE FOR NEW DESIGN". (PR BUDKA) | OR | |
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| | | Broggeragus | | | |
| | | | INACTIVE FOR NEW DESIGN AS OF 12/02/91 | | |
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| | A CANADA | | | | |
| | | 1991 | | | |

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P.R. BUDKA

ORIG. ISSUE DATE:

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| NO. ON PA | | | TITLE | | | CONT ON S | HEET 3 | NO. |
| P3K-A | AL-0335-A01 | 2 | , | SPECIFICATION SCHEMATIC 1 | | E SENSOR, | 22 VDC | · · |
| 1.5 | | | , | · | | | | REVI |
| 1. <u>P</u> | URPOSE | ٠ | | | ·. · | : | | |
| A | . The purpos needed to | e of t | this specific the reference | ation is to d | convey the ard for its | proper in | function. | |
| В | | | cilled Test E ne referenced | | | detailed | Test | |
| 2. D | OCUMENTS PERT | AININ | G TO THIS SPE | CIFICATION | | 3. 建设计算的 建设实验 | | |
| A | . Voltage Se | nsor . | - 22 VDC - | 11708508 | | | | |
| F | AC/DC Powe | er Gro | und System - | 117D7762 | | | | |
| C | . | • | | | | | | |
| 3. E | QUIPMENT NEEL | DED TO | TEST | | | | | |
| | DC Power S | Supply | - 24 VDC no | minal. 2 amp | ere rating | | | |
| | : | | : 1 / 2 | | | | | |
| | DC Power S | | *. | | ************************************** | | | |
| | . 2 switcher | s - SP | ST - 1 ampere | rating, 2 | 4 VDC nomi: | nal. | | |
|] | . 3 Push-but | tton S | witches - SPS | T - 1 ampere | rating, | 24 VDC no | minal each. | |
| 1 | 3 Indicat | ing de | vices24 V | DC nominal, | 80 ma rati | ng each. | | |
| 1 | ? . | | | | | | | |
| | CIRCUIT DESCR | א∩דיניםז | | • | | | | |
| 1 | | | • | | • . | | ₹ | |
| | This board com monitor the or of the board | utput ' | voltage of th | ne 22 VDC Por | wer Supply | The ou | tputs | |
| | functions. | | | | | | | |
| 5. 9 | CIRCUIT INTEG | RATION | | · | | | · • • • • · · · · · · · · · · · · · · · | |
| ,* ; | The voltage so Supply. When energizes, sen the voltage f | ever t ding a | his voltage of signal to an | exceeds a pre- n indicator a | -set limit nd the Mal | , a latch function | ing relay Bus. If | 273 273 1. 27 |
| | If the voltag signal to ano voltage rises | ther i above | ndicator and the the preset w | the Malfunct | ion Bus. | As before | , if the ivated | 27 273 273 |
| ł | to override t | | | | 'Madiando el (emiatro) em ymathod diricali em ymathina et emorati emor (el ato rocket) em tok yam ti dirtas e | ITAL AND PROPRIETAL IS MADE AVAILABLE Y OR MAKE A BIO FORM A CONTRACT SUPPRODUCED OR CO | TO GENERAL SOLELY TO GO WITH GENERAL PIED AND SHALL | 273 |
| COPYR | IGHT 1983 GENE | SAL ELEC | TRIC CO. | r | DE TOM TAM IL MOTES DE COMMESIA VALL TAM ALC HESS THIS DECEMBER LAS | THE INFORMATION IS | ST. RECIPIENT PROTECT CONTAINS. | PRIN |
| D. Mone | June 11, 1 | 973 | APPROVALS | Steam Turbine | • . | V OR PSK | -AL-0335-A01 | |
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LOCATION CONT ON SHEET 3 SH N sn no. Z 970 670 CODE IDENT NO.

FF-803-WA (11-72) PRINTED IN U.S.A.

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|--|---|------------------------------|--------------------|
| REV Ø A | TITLE | CONT ON SHEET 84 R | o. 🍃 |
| P3K-AL-0335-A01 | BOARD TEST SPECIFICATION - VOLTAGE ST 1P2-E005 - SCHEMATIC 11707368 FIRST MADE FOR | ENSOR, 22 VDC | |
| 6. TEST SPECIFICATION | | | REVISION |
| A. Connect the boa | rd as shown in Figure 1. | | |
| B. With PS1 set at Indicators 1 an | 0 volts and 24 VDC set on PS2, closed 2 shall indicate, indicator 3 shall r | se \$1 and \$2. | |
| C. Press in succes indicators. | sion PB1, PB2, and PB3. No change shall | ll decur in the | |
| rate. Stop when | Itage between TP52 and TP53 at a 1 volume the voltage reaches 22 ± 0.5 VDC: | lt per second . There shall | |
| E. Press and release | se PB1. Indicators1 and 2 shall cease | indicating. | |
| F. Reduce the PS1 voltage reaches | voltage at a 1 volt per second rate. | Stop when the | |
| G. Indicators 1 and and TP53 is 20 volts. | i 2 shall indicate where the voltage be + 1 - 0 VDC. Increase the voltage to | tween TP52 | |
| H. Press and release | se PB2. Indicators 1 and 2 shall cease | to indicate. | |
| I. Press and release the indicators. | se PB3. There shall be no change in th | e status of | |
| J. Increase the vol rate to 26 + (voltage reads 2 | tage between TP52 and TP53 at the 1 v 0.5 VDC. Indicators 2 and 3 shall indi 4 + 0, -1 VDC. | olt per second cate when the | |
| K. Reduce the volta shall be no char | age between TP52 and TP53 to 22 ± 0 . ages in the status of the indicators. | 5 VDC., There | |
| L. Press and releas | se PB3. Indicators 2 and 3 shall cease | indicating. | |
| M. Repeat steps J a shall cease indi | and K. Press and release PB2. Indicat cating. | ors 2 and 3 | • |
| | S2 to 0 VDC. Open S1 and S2. | | |
| 7. REPORT SHEET ACTION | REACTION | 2200 | • |
| A. Close S1 & S2 | Ind. 1, 2 indicate | YES NO | |
| | Ind. 3 not indicate | | |
| MADE ATWO | APPROYALS | | PRINTS TO |
| MADE SURO 11.1973 ISSUED JUIN 2 1873 | Steam Turbine DEFT. | P3K-AL-0335-A01 | ; ; > |
| FF-903-WA (H-70) PRINTED IN U.S.A. | A | | DE IDENT NO. |

1. If any indicator does not indicate as described, the board shall be rejected.

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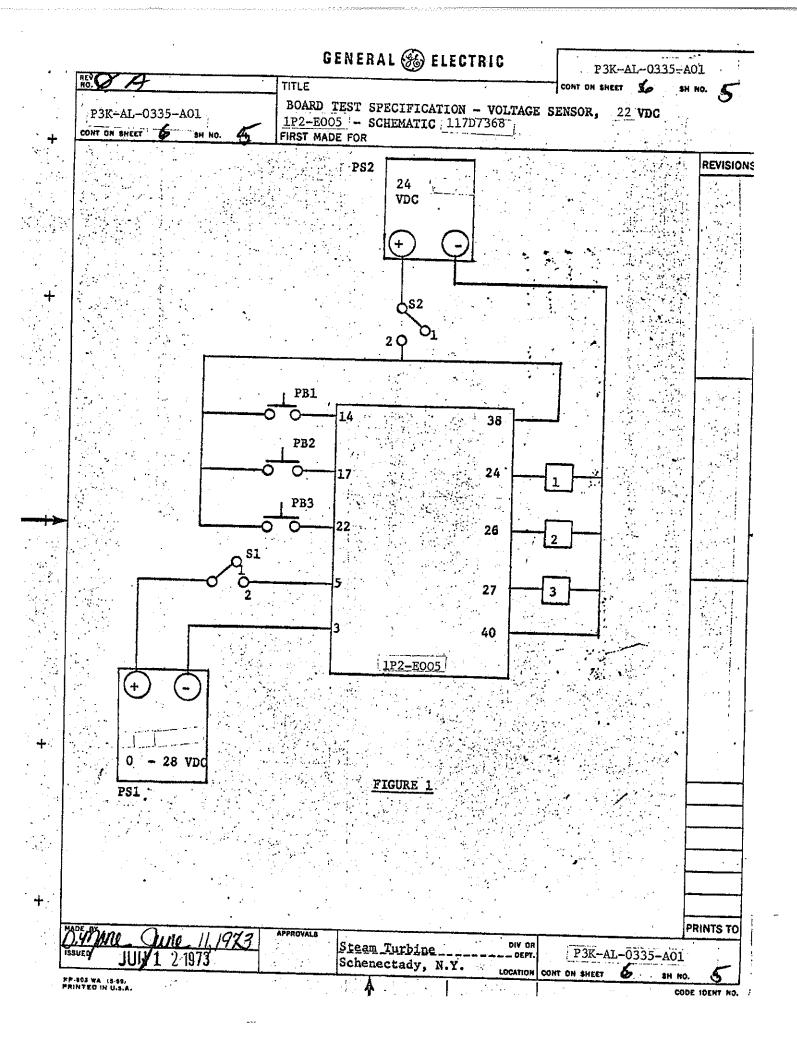
Steam Turbine Schenectady, N.Y.

LOCATION

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P3K-AL-0335-A01

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P3K-AL-0335-A01

CONT ON SHEET

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EE.RO3.WR 16.741

TITLE

Board Test Specification - Voltage Sensor, 22 VDC 1P3-

3K-AL-0335-AO1 | 1P

FIRST MADE FOR EHC Mark II

TEST INSTRUCTIONS 1P3-

Assembly 117D8508

Schematic 117D-7368

The 22 VDC sensor monitors the output voltage level of its specific power supply. If the voltage level falls below 20 to 21 VDC, K1 de-energizes, contact K1-1 closes to apply a signal to pins 24 and 26. If the voltage level rises above 23 to 24 VDC, K11 energizes, contact K11-1 closes to apply a signal to pins 27 and 26. A reset signal applied to pins 14 or 17 will pickup K2 allowing K1-1 to latch in. Similarly, a reset signal applied to pins 22 or 17 will pick up K11-R.

TEST PROCEDURE:

- 1. Refer to Fig. A for test circuit.
- 2. All switches down.
- 3. Read voltage of VSl from TP53 to TP52.
- 4. Adj. VSl for 0 VDC.
- 5. The chart which follows outlines the procedure for testing the relay logic of this circuit.

Steam Turbine DIV OR DEPT. P3K-AL-0335-AOL Schenectady LOCATION CONT ON SHEET SH NO.

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GENERAL (%) ELECTRIC P3K-AL-0335-A01 8 CONT ON SHEET REV NO. TITLE BOARD TEST SPECIFICATION - VOLTAGE SENSOR, 22 VDC SCHEMATIC 117D7368 P3K-AL-0335-A01 FIRST MADE FOR MARK II CONT ON SHEET REVISIONS 1.12 + 110 5 Γ_3 ű Decrease VSl volts until V N VDC for +25.00 +25.00 PROCEDURE +55.00 conditions volts ďn ďn · đn 访 35 슔 21.00 VDC forVSL down down VSI down down Adj. , dj 83 33 10 12 + PRINTS TO MADE BY APPROVALS DIV OR P3K-AL-0335-A01 Steam Turbine ISSUED Schenectady LOCATION CONT ON SHEET