CIRCUIT BOARD Ι.

> 148D2471 Schematic Assembly : 169C4727

II. DESCRIPTION

This board is used to convert 125 VDC to 24 VDC. Its function in the motoring system is to relay contact closures from high temperature sensing thermostats to the motoring logic circuit board.

SPECIFICATIONS III.

- Connect +24 VDC to Pin 38.
- Connect 24V common to Pin 40.
- Read +5V + .1V between TP2 (+) and TP3 (-).
- Note that DS1 lights.

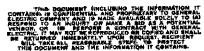
Repeat the following procedure for every channel. Pin details are as follows:

Input	NO	C	NC
4	32	34	33
2	29	30	31
. 8	26.	27	28
. 6	23	24	25
10	20	21	22
. 12	17	18	19

1.25V common is Pin 14.

- The relay must pickup between an input voltage range of 60 -- 70 VDC.
- Once energized, each relay must de-energize within .1V of its' pickup voltage. This small deadband will verify that the breakdown knee of the zener occurs in an avalanche fashion.

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DEV OF Steam Turbine LOCKINOP

Schenectady, N.Y.

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TITLE

TEST SPECIFICATIONS FOR THE 125V RELAY INTERFACE CIRCUIT BOARD 1M2-B001

FIRST MADE FOR EHC MARK II

(continued) SPECIFICATIONS III.

- The solid state "front end" functions as a 1 out of 2 logic circuit. Therefore, each channel must be independently checked. Using an IC test clip, verify that pin 5 of each optical isolator goes low (.8V or less) when the circuit has been energized and that when deenergized, that point goes high (4.5 or more). Be careful not to short any of the pins of the optical isolator together.
- Each relay circuit must also be individually checked such that each can operate without falsely energizing any of the others, i.e. via excessive relay noise, high voltage arcing or solder bridges.

P3K-AL-0654-A01 APPROVALS Steam Turbine J.AULISI 18 AUG. LOCATION CONT ON SHEET ISSUED AUG 18 1981 Schenectady, CODE IDENT NO.

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