Frequency

P3K-AL-0656-A01

Distortion

CONT ON SHEET 4

3000 < f < 3400 Hz

Regeneration

The oscillator must restart in all of the following situations:

- Simultaneously interrup the +22 VDC and the -22 VDC power. Reconnect.
- Interrupt the +22 VDC power. Reconnect.

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Schenectady, N.Y.

LOCATION CONT ON SHEET 5

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TITLE

SPECIFICATIONS AND TEST INSTRUCTIONS

VALVE POSITION DEMODULATOR CKT. BD. ASM. DWG.

P3K-AL-0394-A01 sh No. 2 CONT ON SHEET

FIRST MADE FOR

EHC MARK II

# 3 KHZ OSCILLATOR (continued)

#### VGATE (VTP50) Setting 3.

Adjust VR50 so that the oscillator runs at the upper limit of linearity ( $|T_1 - T_2| \leq 10$  usec); ie:

> $|v_{GATE}| \approx |v_{GATE}|$ .010

Operation around this point give maximum temperature and load change stability. A sampling of 25 FET's has shown the upper limit to be:

 $-2.6 < V_{GATE} < -1.0$ 

## Amplitude Setting

Adjust VR51 for  $V_{TP3} = 6.000 \pm .010V$  RMS.

# Frequency

3000 **<** f **<** 3400 Hz

#### Regeneration 6.

The oscillator must restart in all of the following situations:

- Simultaneously interrupt the +22 VDC and the -22 VDC power. Reconnect.
- Interrupt the +22 VDC power.

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- -22 VDC power. Reconnect.
- Withdraw and insert the Valve Pos. Demodulator board.

### 7. Temperature Stability

This test may be conducted with oscillator unloaded. With VG set as in Step 3 at ambient temperature (TA) then:

$$\Delta V_{\mathrm{TP}\,3}$$
  $\leq$  .060 VRMS (  $T_{\mathrm{A}}$   $\leq$   $T$   $\leq$  130  $^{\mathrm{O}}\mathrm{F}$ )

A small change in  $V_G$  may be necessary to meet this spec. If  $\triangle V_{\mathrm{TP}} >$ +.060 for  $T_A \le T \le 130$ °F, decrease V GATE. If  $\Delta V_{TP3} > -.060$ ,

increase VGATE. Load Variance

> No combination of transducer positions should change VTP3 more than 10 mv RMS.  $\Delta v_{\mathrm{TP3}}$  $\leq$  .010 V RMS

J. Polacek Sept. 15, 1977 ISSUED SEF 20 1977

Steam Turbine Schenectady, N.Y.

P3K-AL-0394 -A01 LOCATION CONT ON SHEET

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CONT ON SHEET

P3K-AL- 0394-A01

SPECIFICATIONS AND TEST INSTRUCTIONS

VALVE POSITION DEMODULATOR CKT. BD. ASM. DWG. 115D2248

CONT ON SHEET

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TITLE

FIRST MADE FOR EHC MARK II

REVISION

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3 KHZ OSCILLATOR (continued)

Envelope Modulation

Envelope modulation should not exceed .015V ptp.

# POWER SUPPLIES

With the oscillator loaded at 6V RMS:

1. Steady State

With Ammeters on pins 37 and 41:

+22 VDC:  $I_{board} \approx 170 \pm 25 \text{ ma}$ 

-22 VDC:  $I_{board}$   $\approx$  -140  $\pm$  25 ma

Transients

To check the presence and value of C5 and C7, connect the +22 and -22 VDC. In both at TP51 and TP52:

 $t_{rise} > 0.5 \text{ m sec.}$ 

#### F. DEMODULATORS

With  $V_{TP3} = 6.000 \pm .010V$  RMS. Check the minimum and maximum sensitivity of each circuit, where:

Sensitivity = \frac{\% meter movement}{1" xducer displacement

In both cases, zero the meter when the transducer rod is inserted (valves closed position).

8.6 < Sensitivity min < 9.5

28 < Sensitivity max < 35

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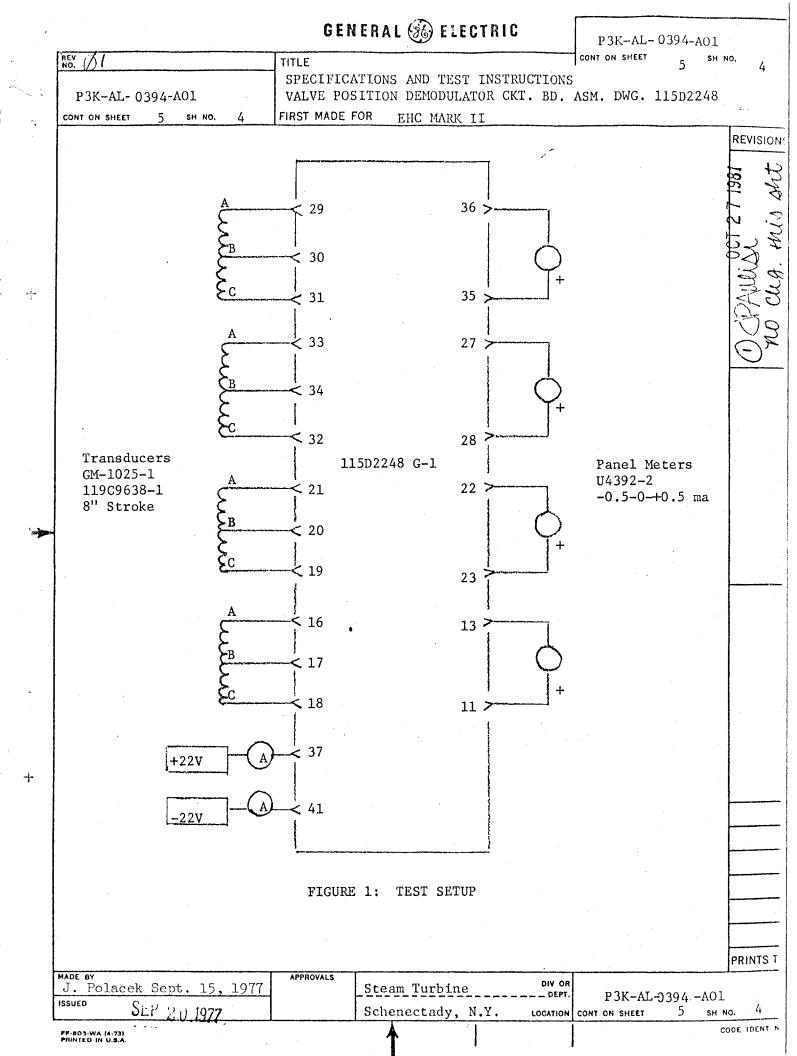
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