The IVA drives two, three, or four valve position loops (pins 33, 34, 35 and 36) whose individual impedances are 20 kilohms and nonvarying; it also drives a voltage comparator (pin 32). On the board the same gated amplifier signal drives a voltage follower used to provide a IVA signal to the Standby Control Unit (pin 29) and to a meter (pins 30 and 31).

A positive bias is applied to the operational amplifier during rotor warming to provide a fully closed—IV flow reference signal during rotor warming. During normal operation this bias is removed by connecting pin 24 to pin 25.

Steam Turbine DIV OR P3K-AL-0484-A01

Schenectady, N.Y. Location CONT ON SHEET 2 SH NO. 1

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APPROVALS DIV OR P3K-AL-0484-A01 MADE BY Steam Turbine\_ Schenectady, New York LOCATION CONT ON SHEET 3 ISSUED

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CONT ON SHEET 5 TITLE TEST INSTRUCTIONS FOR INTERCEPT VALVE AMPLIFIER 1L1-G003 P3K-AL-0484-A01 (ASS'Y DWG 118D1358 G1) CONT ON SHEET 5 FIRST MADE FOR EHC MARK II (LOAD CONTROL UNIT) SH NO. REVISIO CIRCUIT SPECIFICATIONS (continued) III. Individual Stage Performance Specifications (continued) Remove GNO FROM 32 3. (Continued) Transfer Function for Meter Amplifier Output TP10 TP3 Where Gain (G5) = 1.000 volts/volt Saturation Limits (10 K Ohm effective load) =  $\pm$  12.0 VDC PUT IQU. PIN 24 (minimum) TP3 = TP10 + >18 Voltage Divider Network for Opening Bias (R7, R8, R9, VR4) VOLTAGE AT TP9 VR4 POSITION -9.596 + 0.188 VDCCCW - : -10.572 + 0.110 VDC Voltage Divider Network for Closing Bias Jumper PIN 23 TO 24 (R17, R18, R19, R21) Voltage at TP5: 10.049 + 0.109 VDC Voltage Divider Network for Flow Ceiling Limit Remove Jumper 23 TO 24 (R11, R14, R15, R16, VR2, VR3) 1Cl driven into positive saturation. VOLTAGE AT TP3 VR2 POSITION VR3 POSITION CCW -1.399 + .120 VDCCCW -1.364 + .123 VDCCW CCV 6.666 + .396 VDC CCW CM 11.458 + .120 VDC CWCW IV. SET POINTS Adjustment of VR50 A. TP 6 With zero input at ICl (pins 26, 27 and TP9 ground, Pin 24 connected to Pin 25) and VR2 fully CW VR50 should be adjusted so that TP3 voltage is + 4.0 mV. SET 70 ₱ **PRINTS** APPROVALS Y8 BCAM Steam Turbine

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P3K-AL-0484-A01

Schenectady, New York ocation cont on sheet 5

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EV 10.		TITLE		CONT ON SHEET 6	sh no. 5
	AL-0484-A01		UCTIONS FOR INTERCEPT VALV 118D1358 G1)	/E AMPLIFIER 1L1-	-G003
ONT ON SHEET	6 sн но. 5	FIRST MADE FO	OR EHC MARK II (LOAD CON	TROL UNIT)	<del></del>
					REVIS
IV. SET	POINTS (continue	ed)			2 44 144 1 mm
10 E-91 E-11C	25 O 25 -111 <sup>24</sup> 3	1 10000000			
B. 7	Adjustment of V	RSI			
	With zero input is $\pm$ 1.0mV.	to IC2 VR5	l should be adjusted so t	hat TP10 voltage	and accommodate
C.	Adjustment of V	R2			The second secon
	VR2 should be a	djusted ful	ly CW.		resource and
D.	Adjustment of V	R3			
//	With ICl driven so that TP3 vol	into posit tage is 10.	ive saturation VR3 should 100 VDC.	be adjusted	
Ε.	Adjustment of V	R4	REMOVE TP9, PN. 26+27	FREMGNO	
	With +2.000 VDC VR4 so that TP3	at pin 27 voltage is	and pin 24 connected to p $\pm 1 \text{mV}$ . Set 10 $\phi$	in 25 adjust	
	Adjustment of V	Rl for 5% C	CV-regulation-		estatis a via.
	With -10.000 VD connected to pi	C at pin 26 n 25, adjus	5, +7.000 VDC at pin 27 an st VRl so that TP3 voltage	d pin 24 is + lmV.	7
			The second secon		
G.	Adjustment of V	R5 Rem	ove Tuper 24 +0 25		04 904
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 s	so that +10.000 V	DC
G.	With meter conn	ected betwe	The second control of the second section		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		DC
G.	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.		
G. MADE BY	With meter conn	ected betwe	een 30 and 31 adjust VR5 se deflection of the meter.  140 mV between 30 +	OR D3K-AI-00.5	PRI
	With meter conn	ected between full scale	een 30 and 31 adjust VR5 se deflection of the meter.  140 mV between 30 +	OR P3K-AL-048	PRI