Maham A. Hillis

10-5-58

Vogtle Electric Generating Plant NUCLEAR OPERATIONS

RATIONS

A

Procedure No.
22721-C
Revision No.
3
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Unit ____COMMON

Georgia Power

PRESSURE SWITCH CALIBRATION

FOR INFO

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PROCEDURE NO.	THE RESIDENCE OF THE PARTY OF T	TREVISION	PAGE NO.
VEGP	22721-C	3	2 of 10
1.0	PURPOSE		1
	The purpose instruction	of this procedure is t s for calibration of a	o provide Pressure Switch.
2.0	PRECAUTIONS	AND LIMITATIONS	
2.1	All steps in sequence ex	n this procedure are to cept as noted.	be performed in []
2.2	double aste	of procedure steps, as risk (*/*), shall be in recording data on Data	itialed on "Checklist"
2.3	Any calcula procedure s	tions necessary for the hall be shown on "Calcu	performance of this lation Sheet". []
2.4	service a c	ent may be located in a ontaminated process flud. If so, follow instr	iid, or be
2.5	Verification Test/Calibr	Related systems, an Inc n shall be performed, a ation, and initialed in n" section of "Checklis	after completion of "Restoration
2.6	with a comp tag. Inste	each lead (wire) to be leted and installed jurad of "Control No.", the dentified on the tag.	mper and lifted wire
2.7	must remain	cedure is completed and installed and/or lifted, a Jumper and Lifted V r procedure 00306-C, "Control".	ed wire(s) cannot be Wire Clearance must be
2.8	This proced operational	ure may be performed in mode.	n any plant
2.9	For Non-Saf	ety Related systems QC applicable (N/A) on "C	Hold Points may be hecklist". []
2.10	If, during following o	performance of this procur, immediately noti	ocedure, any of the fy I&C Foreman:
2.10.1	malfunction	el error, procedure in is identified which confiderates of "Acceptance Criter"	ould prevent
2.10.2	Any test ex	ceeds specified limits	. ()

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3.0	PREREQUISI	TES OR INITIAL CONDITIONS	
3.1	Notify Shir	ft Supervisor, or designed and obtain signature author	of work to be
3.2 */*	with proces	ctor Operator (RO) instrumure switch may be erratic formance of this procedure	or inoperable
3.3	TEST EQUIP	MENT REQUIRED	
3.3.1	Variable P	ressure Source	[1
3.3.2	Pressure T	est Gauge	[]
3.3.3	Triplett V	OM Model 630 or equivalent	[]
3.4	Verify all met.	Prerequisites or Initial	Conditions are
4.0	MAIN BODY		
4.1	CALCULATIO	NS	
4.1.1 */*	controlled	trument setpoint/range da document(s) and record d section of "Data Sheet".	ta from applicable ocument number in []
4.1.2	Calculate "Expected"	and record expected trip section of "Data Sheet".	point values in []
4.1.3 */*	Calculate and "Lo Li	and record Hi and Lo Limi mit" sections of "Data Sh	ts in "Hi Limit" eet". []
4.2	REMOVAL FR	ROM SERVICE	
4.2.1 */*	Disconnect Safety-Rel required.)	lead wires from switch a ated systems, an Independ	s required. (For ent Verification is
4.2.2	Close isol	lation valves, if applicab	le. []

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WARNING

ANY TRAPPED FLUID VENTED DURING ISOLATION FROM UR RESTORATION TO SERVICE MAY BE CONTAMINATED. A SUITABLE CONTAINER, AS RECOMMENDED BY THE HEALTH PHYSICS DEPARTMENT, SHALL BE USED TO ENTRAP THIS FLUID. THE FLUID SHOULD BE DISPOSED OF IN ACCORDANCE WITH HEALTH PHYSICS DEPARTMENT PROCEDURES.



4.3	CALIBRATION	
4.3.1	Connect pressure source and test gauge to input test ports.)
4.3.2	Connect VOM across appropriate switch contacts. []
4.3.3	Adjust pressure until switch contacts are reset. [1
4.3.4	Adjust pressure until switch contacts trip. [1
4.3.5	Adjust pressure until switch resets.]
4.3.6 */*	Record trip/reset values in appropriate "As Found" sections of "Data Sheet".]
4.3.7	If As Found values are within limits specified on "Data Sheet" and more accurate values are not desired, record values in "As Left" section of "Data Sheet" and proceed to subsection 4.4.	1
4.3.8	QC Hold Point	
/	Obtain QC authorization to proceed before continuing with procedure.	1
4.3.9	If As Found values are not within limits specified on "Data Sheet", or more accurate values are desired, proceed as follows:	
	a. Adjust switch settings as required to obtain correct value.]
	b. Adjust pressure until contracts actuate.	
	c. Adjust pressure until contacts reset.	[]
	d. Repeat steps 4.3.9a thru 4.3.9c until no further	
	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 */* 4.3.7 */*	4.3.1 Connect pressure source and test gauge to input test ports. 4.3.2 Connect VOM across appropriate switch contacts. 4.3.3 Adjust pressure until switch contacts are reset. 4.3.4 Adjust pressure until switch contacts trip. 4.3.5 Adjust pressure until switch resets. 4.3.6 Record trip/reset values in appropriate "As Found" sections of "Data Sheet". 4.3.7 If As Found values are within limits specified on "Data Sheet" and more accurate values are not desired, record values in "As Left" section of "Data Sheet" and proceed to subsection 4.4. 4.3.8 QC Hold Point Obtain QC authorization to proceed before continuing with procedure. 4.3.9 If As Found values are not within limits specified on "Data Sheet", or more accurate values are desired, proceed as follows: a. Adjust switch settings as required to obtain correct value. b. Adjust pressure until contracts actuate. c. Adjust pressure until contacts reset. d. Repeat steps 4.3.9a thru 4.3.9c until no further.

adjustments are necessary.

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4.3.10		switch has mo		
4.3.11	Record fina	l values obtai	ned in "As Le	ft" section of
4.4	RESTORE TO	SERVICE	1 1/22	
4.4.1	QC Hold Poi	nt		
/	Obtain QC a	uthorization t	o proceed bef	ore continuing []
4.4.2	Remove all of this pro		installed du	ring performance
4.4.3 */*	Slowly open	pressure swit	ch isolation	valves. []
4.4.4	Reconnect 1	lead wires to p	ressure switc	h. []
4.4.5 */*	Inspect val Immediate a found.	ves, tubing, a action shall be	nd instrument taken to cor	for leaks. rect any leaks
4.4.6 */*	Verify inst after it is	rument reflect restored to s	s current pla ervice.	nt conditions []
4.4.7 */*	For Safety- Restoration personnel.	Related system Verification	s, have an In performed by	dependent designated [1
4.4.8	Notify RO to service.	that instrument	has been ret	urned to
4.4.9 */*	Notify Shift work include "Completion	ing Test resul	or designee, ts and obtain	of completion of Signature on
5.0	ACCEPTANCE	CRITERIA		
5.1	The Accepta	ance Criteria f is within limi	or this proce	dure is that the on Data Sheet.
5.2	when I&C fo	ry Completion of creman has eval Criteria of the Sheet provide	uated data ob is procedure,	ure has been met tained per reviewed and

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6.0		REFERENCES							
6.1		Appropriate	Instruc	tion Manua	1				
6.2		Appropriate	Electri	cal and Me	chanical	Drawi	ngs		
6.3		Procedure 00	306-C,	"Temporar Control"	y Jumper	And I	Lifted	Wire	

END OF PROCEDURE TEXT

VEGE	2-17/77			7			/ of I	10
			DATA	DATA SHEET			SHEET	1 OF 1
Inst. No.		Loca	Location			Serial No.		
escription I	Description Pressure Switch		Manufacturer	Iter		Model No.		-
NOTES: N/A								
ACTION		UNITS		EXPECTED	LO LIMIT	HI LIMIT	AS FOUND	AS LEFT
Trip								
Reset								
ACTION		UNITS		EXPECTED	LO LIMIT	HI LIMIT	4S FOUND	AS LEFT
Trip								
Reset								
COMMENTS:	TEST EQUIPMENT MODEL NO.	CALIBRATION DUE	DATE			FOR INFO		
				PERFORMED	BY:	W 150	DATE	
				REVIEWED	1 000		DATE	
				APPROVED	D BY:		DATE	

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CALCULATION SHEET

Show all calculations performed during course of this procedure in the space below.

ONLY

Completed by: _____ Date _____

Reviewed by: ____ Date _____

Approved by: _____ Date _____

Date:

Date:

reconnected

Performed by:

Reviewed by:

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COMPLETION SHEET

BY		DATE	
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	AND DESCRIPTION		
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Managements. (All - Managements and Control			
		1127	}
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			Martin Annie Commission Commissio
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ACCEPTABLE []		UNACCEP	TABLE []
ro service []			
TO REPAIR []			
THE		DATE	
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contract of the second	-	W/	Data
Signature		Time	Date
	CTIONS TAKEN ACCEPTABLE [] TO SERVICE [] TO REPAIR []	CTIONS TAKEN ACCEPTABLE [] TO SERVICE [] TO REPAIR []	ACCEPTABLE [] UNACCEPTO SERVICE []