Falirie A. Life

5.30.89

Vogtle Electric Generating Plant
NUCLEAR OPERATIONS

Unit COMMON

A

Georgia Power

22332-C

Revision No.
2

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MANUAL SET

TEMPERATURE SWITCH CALIBRATION

FOR INFO

9202210371 920116 PDR ADDCK 05000424 S PDR

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2.10	This procedure may be performed in any plant operational mode.	1
3.0	PREREQUISITES OR INITIAL CONDITIONS	
3.1 */*	Notify Shift Supervisor, or designee, of work to be performed and obtain signature authorization.	j
3.2	Notify Reactor Operator (RO) that instruments associated with switch may be erratic or inoperable during performance of this procedure and obtain RO signature.	1
3.3	TEST EQUIPMENT REQUIRED	
3.3.1	Temperature Bath	1
3.3.2	Fluke 2175A Digital Thermometer or equivalent (1
3.3.3	Triplett Model 630 VOM or equivalent	1
3.4	Verify all Prerequisities or Initial Conditions are met.]
4.0	MAIN BODY	
4.1	CALCULATIONS	
4.1.1 */*	Obtain instrument setpoint Data from appropriate controlled document(s) and record document number(s) i "Comments" section of "Data Sheet".	n 1
4.1.2	Calculate and record input and expected values in "Input" and "Expected" sections of "Data Sheet".	1
4.1.3	Calculate Hi and Lo Limits and record in "Hi Limit" an "Lo Limit" sections of "Data Sheet".	d
4.2	REMOVAL FROM SERVICE	
	NOTE	
	The length of capillary immersed in temperature bath must be the same as length of capillary immersed in process.	
4.2.1	Close isolation valve (if applicable).]

and the same of th	A contract of the contract of
.2.2	Disconnect lead wires from switch as required. [] (Independent Verification required for safety-related systems)
4.2.3	Remove temperature sensing element from thermowell [] and/or holding apparatus as necessary.
4.3	CALIBRATION
4.3.1	Place temperature sensing element and Fluke digital [] thermometer in temperature bath.
4.3.2	Connect VOM across appropriate terminals to monitor [] contact action of switch under test.
4.3.3	Adjust temperature bath to a point at which VOM indicates contacts are in reset condition. []
	NOTE
	As setpoint is approached temperature bath should be adjusted in smaller increments, allowing temperature to stabilize after each adjustment of temperature bath and prior to obtaining data and switch conditions.
4.3.4 */*	Adjust temperature bath to point at which required trippoint is indicated by VOM and record temperature bath value in "As Found" section of "Data Sheet".
4.3.5 */*	Adjust temperature bath to point at which required reset contact action is indicated by VOM and record temperature bath value in "As Found" section of "Data Sheet".
4.3.6	If required, connect VOM to additional switch contacts and repeat steps 4.3.3 thru 4.3.5.
4.3.7 */*	If As Found readings are within limits specified on "Data Sheet" and more accurate readings are not desired, record readings in "As Left" section of "Data Sheet" and proceed to appropriate subsection.

Verify instrument reflects current plant conditions

after it is returned to service.

4.4.5

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4.4.6 */*	For Safety-Related systems, have an Independent Restoration Verification performed by designated personnel.
4,4,7	Notify RO that instrument has been returned to service.
4.4.8 */*	Notify Shift Supervisor, or designee, of completion of work including test results and obtain signature on "Completion Sheet". []
5.0	ACCEPTANCE CRITERIA
5.1	The Acceptance Criteria for this procedure is that the temperature switch is within limits specified on "Data Sheet".
5.2	Satisfactory completion of this procedure has been met when I&C Foreman has evaluated data obtained per Acceptance Criteria of this procedure, reviewed, and signed "Data Sheet" provided.
6.0	REFERENCES
6.1	Instruction Manual for switch under test.
6.2	Procedure 00306-C, "Temporary Jumper And Lifted Wire Control"

END OF PROCEDURE TEXT



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			DATA	SHEET			
[Hereing Harden and Hereing Harden							
.nst. No.		L	ocation	Serial No.			
Description	Temperature S	witch M	anufacturer _		Model	No.	
NOTES: M/A							
BOLES: IN A							
Action		IUNITS	I EXPECTED	LO LIMIT	HI LIMIT	AS FOUND	AS LEFT
Switch Tripp Switch Reset	ped		S CANDIDA SALES				
	t	UNITS	EXPECTED	LO LINIT	HI LIMIT	AS FOUND	AS LEFT
Action Switch Tripp	ned	UNIIS	EAPECIED	LO LINII	ui riuii	NO LOUND	AS LEFT
Switch Reset							
Action		UNITS	EXPECTED	LO LIMIT	HI LIMIT	AS FOUND	AS LEFT
Switch Tripp Switch Reset	ped						
Switch Reset	t				1		
COMMENTS:							
						0	
	TEST EQUIPM	ENT				-	
I.D. NO.	TEST EQUIPM	CALIBRAT	ION DUE DATE				
						三	
		-				3 8	
		A Part Co					
		PERFORMED	BY:	DAT	E:		
				REVIEWED B	Y:	DAT	E:
				APPROVED BY	Y :	DAT	Έ:

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CALCULATION SHEET

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

CIVLY .

Completed by:	Date:
Reviewed by:	Date:
Approved by:	Date

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CHECKLIST

3.1 Shift Supervisor Authorizat	ion Signature Date
3.2 Reactor Operator (RO) Notif	Signature Date
Step/Substep STEP VER	RIFICATION Al Step/Substep Initia
3.4 Prerequisites met 4.2.2 Leads disconnected 4.2.2 Independent Verification 4.4.1 Test equipment removed 4.4.2 Element installed 4.4.3 Leads connected	4.4.4 Isolation valve open 4.4.5 Reflects plant conditions
RESTORATION Initia	VERIFICATION Initia
1. Element installed 2. Leads connected	3. Isolation valve open
Performed by:	Date
Reviewed by:	Date

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	TTTS CONTROL OF THE C
	F Manuscript Control of the Control
	Manufacture and Administration a
TEST RESULTS: ACCEPTABLE [] UNAC	CCEPTABLE []
TEMPERATURE SWITCH RESTORED TO SERVICE []	
TEMPERATURE SWITCH COMMITTED TO REPAIR []	
TEST COMPLETED BY TIME	DATE
SHIFT SUPERVISOR NOTIFIED Signature	Time Date
REVIEWED BY:	DATE:
APPROVED BY:	DATE: