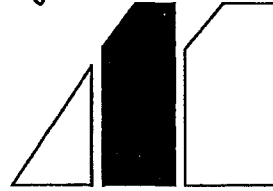


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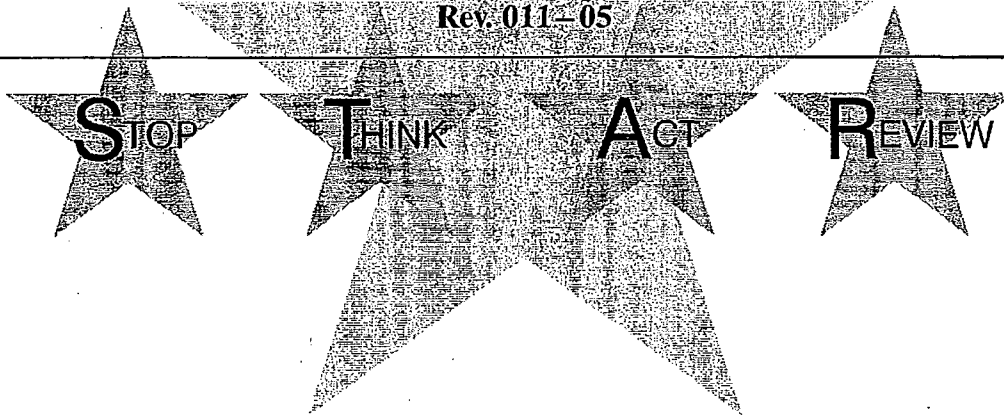
MILLSTONE POWER STATION
INSTRUMENTATION & CONTROL PROCEDURE



**Safety Related Instrument Calibrations –
Shutdown**

IC 2429B

Rev. 011-05



Approval Date: 01/12/12

Effective Date: 01/18/12

Level of Use
Reference

4.30 Vital AC Switchgear Room Cooling Coils X-181A and X-181B Service Water Inlet Temperature Loop T-6928

NOTE

TT-6928 and TI-6928 are located in Control Panel C514 in the Turbine Building, on the 31' 6" level, at the south wall.

4.30.1 ENSURE SM/US has authorized performance of this section below:

Section 4.30 Performance Authorization	
SM/US:	Date

4.30.2 RECORD work order number below:

4.30.3 MARK appropriate surveillance block(s) below:

- MAINTENANCE RESTORATION
 SYSTEM ALIGNMENT
 NON-TECH SPEC SURVEILLANCE

4.30.4 PRINT name and INITIAL below for the following:

- Prerequisites have been satisfied.
- Precautions have been noted.

Name:	Initials	Name:	Initials
Name:	Initials	Name:	Initials

4.30.5 RECORD number and calibration due date for M&TE below:

Test Equipment	Number	Cal Due Date
RTD simulator with a minimum accuracy of $\pm 0.01\%$ in range 150 to 250 ohms (e. g., Transcat 7010T)		

4.30.6 ENSURE components are TT-6928 and TI-6928 located in Control Panel C514 in the Turbine Building, on the 31' 6" level, at the south wall.

Level of Use Reference



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4.30.7 RECORD TI-6928 indication at left.

4.30.8 OPEN C514 panel cover.

Concurrent Verification

4.30.9 DISCONNECT switch craft connector at C514 TB2, terminals 7, 8, 9, and 10 and DOCUMENT concurrent verification and performance below.

Activity	Performer	Verifier (CV)
Switch craft connector disconnected at C514 TB2, terminals 7, 8, 9, and 10		

4.30.10 CONNECT RTD simulator in C514 at switch craft connector to TT 6928.

4.30.11 Refer To Table 29., APPLY inputs, and RECORD As Found data in Table 29.

Table 29. Vital AC Switchgear Room Cooling Coils X-181A and X-181B Service Water Inlet Temperature Loop T-6928

Input (Ω)	Indicator	Location	Desired (°F)	Acceptance Criteria (°F)	As Found (°F)	As Left (°F)
186.221	TI-6928	C514	1	0.7 to 1.3		
196.840			25	24.7 to 25.3		
207.901			50	49.7 to 50.3		
218.917			75	74.7 to 75.3		
229.447			99	98.7 to 99.3		

4.30.12 IF As Found data meets acceptance criteria AND no improvement in accuracy is desired, RECORD data As Left in Table 29.

4.30.13 IF As Found data do not meet acceptance criteria OR improvement in accuracy is desired, CONSULT Supervisor and PERFORM the following:

- a. PERFORM corrective action and CALIBRATE loop component(s) as necessary.
- b. RECORD As Left data in Table 29.

Level of Use Reference



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4.33 Vital AC Switchgear Room Cooling Coil X-182 Service Water Inlet
 Temperature Loop T-6929

NOTE

TT-6929 and TI-6929 are located in Control Panel C515 in the Turbine Building, on the 54' 6" level, at the east wall.

4.33.1 ENSURE SM/US has authorized performance of this section below:

Section 4.33 Performance Authorization	
SM/US:	Date

4.33.2 RECORD work order number below:

4.33.3 MARK appropriate surveillance block(s) below:

- MAINTENANCE RESTORATION
 SYSTEM ALIGNMENT
 NON-TECH SPEC SURVEILLANCE

4.33.4 PRINT name and INITIAL below for the following:

- Prerequisites have been satisfied.
- Precautions have been noted.

Name:	Initials	Name:	Initials
Name:	Initials	Name:	Initials

4.33.5 RECORD number and calibration due date for M&TE below:

Test Equipment	Number	Cal Due Date
RTD simulator with a minimum accuracy of $\pm 0.01\%$ in range 150 to 250 ohms (e. g., Transcat 7010T)		

4.33.6 ENSURE components are TT-6929 and TI-6929 located in Control Panel C515 in the Turbine Building, on the 54' 6" level, at the east wall.

Level of Use
Reference



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4.33.7 RECORD TI-6929 indication at left.

4.33.8 OPEN C515 panel cover.

Concurrent Verification

4.33.9 DISCONNECT switch craft connector at C515 TB2, terminals 7, 8, 9, and 10 and DOCUMENT concurrent verification and performance below.

Activity	Performer	Verifier (CV)
Switch craft connector disconnected at C515 TB2, terminals 7, 8, 9, and 10		

4.33.10 CONNECT RTD simulator to test connections at C515, TB2, terminals 7, 8, 9, and 10.

4.33.11 Refer To Table 33., APPLY inputs, and RECORD As Found data in Table 33.

Table 33. Vital AC Switchgear Room Cooling Coil X-182 Service Water Inlet Temperature Loop T-6929						
Input (Ω)	Indicator	Location	Desired (°F)	Acceptance Criteria (°F)	As Found (°F)	As Left (°F)
186.137	TI-6929	C515	1	0.7 to 1.3		
196.797			25	24.7 to 25.3		
207.858			50	49.7 to 50.3		
218.871			75	74.7 to 75.3		
229.401			99	98.7 to 99.3		

4.33.12 IF As Found data meets acceptance criteria AND no improvement in accuracy is desired, RECORD data As Left in Table 33.

4.33.13 IF As Found data do *not* meet acceptance criteria OR improvement in accuracy is desired, CONSULT Supervisor and PERFORM the following:

- a. PERFORM corrective action and CALIBRATE loop component(s) as necessary.
- b. RECORD As Left data in Table 33.

Level of Use Reference



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4.36 Vital AC Switchgear Room Cooling Coil X-183 Service Water Inlet
Temperature Loop T-6930

NOTE

TT-6930 and TI-6930 are located in Control Panel C515 in the Turbine Building, on the 54' 6" level, at the east wall.

4.36.1 ENSURE SM/US has authorized performance of this section below:

Section 4.36 Performance Authorization	
SM/US:	Date

4.36.2 RECORD work order number below:

4.36.3 MARK appropriate surveillance block(s) below:

- MAINTENANCE RESTORATION
 SYSTEM ALIGNMENT
 NON-TECH SPEC SURVEILLANCE

4.36.4 PRINT name and INITIAL below for the following:

- Prerequisites have been satisfied.
- Precautions have been noted.

Name:	Initials	Name:	Initials
Name:	Initials	Name:	Initials

4.36.5 RECORD number and calibration due date for M&TE below:

Test Equipment	Number	Cal Due Date
RTD simulator with a minimum accuracy of $\pm 0.01\%$ in range 150 to 250 ohms (e. g., Transcat 7010T)		

4.36.6 ENSURE components are TT-6930 and TI-6930 located in Control Panel C515 in the Turbine Building, on the 54' 6" level, at the east wall.

Level of Use
Reference



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4.36.7 RECORD TI-6930 indication at left.

4.36.8 OPEN C515 panel cover.

Concurrent Verification

4.36.9 DISCONNECT switch craft connector at C515 TB4, terminals 7, 8, 9, and 10 and DOCUMENT concurrent verification and performance below.

Activity	Performer	Verifier (CV)
Switch craft connector disconnected at C515 TB4, terminals 7, 8, 9, and 10.		

4.36.10 CONNECT RTD simulator to test connections at C515, TB4, terminals 7, 8, 9, and 10.

4.36.11 Refer To Table 37., APPLY inputs, and RECORD As Found data in Table 37.

Table 37. Vital AC Switchgear Room Cooling Coil X-183 Service Water Inlet Temperature Loop T-6930						
186.077	TI-6930	C515	1	0.7 to 1.3		
196.735			25	24.7 to 25.3		
207.791			50	49.7 to 50.3		
218.802			75	74.7 to 75.3		
229.328			99	98.7 to 99.3		

4.36.12 IF As Found data meets acceptance criteria AND *no* improvement in accuracy is desired, RECORD data As Left in Table 37.

4.36.13 IF As Found data do *not* meet acceptance criteria OR improvement in accuracy is desired, CONSULT Supervisor and PERFORM the following:

- a. PERFORM corrective action and CALIBRATE loop component(s) as necessary.
- b. RECORD As Left data in Table 37.

4.36.14 DISCONNECT RTD simulator from test connections at C515, TB4, terminals 7, 8, 9, and 10.

Level of Use Reference

