Point Beach Nuclear Plant

PROCEDURE RECORD AND FIELD COPY TRACKING

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Field Copy Number

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Procedure Number IT-10 Unit PB0 Revision Number 42

Procedure Title Test of Electrically Driven Auxiliary Feed Pumps and Valves Revision Date 5/17/01

Procedure Revision Checked and Current: Tracking Checked for Temporary Changes:

By [signature] Date [illegible]

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NOTE 1 ANY TEMPORARY CHANGES MADE TO THIS PROCEDURE SHALL BE MADE TO THE RECORD COPY AND ALL OTHER FIELD COPIES THAT HAVE BEEN ISSUED.

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PBF-0026
Revision 2 2/21/01

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REC'D OCT 15 2001

IT 10

TEST OF ELECTRICALLY-DRIVEN AUXILIARY FEED PUMPS AND VALVES (QUARTERLY)

DOCUMENT TYPE:	Technical
CLASSIFICATION:	Safety Related
REVISION:	42
EFFECTIVE DATE:	May 17, 2001
REVIEWER:	Qualified Reviewer
APPROVAL AUTHORITY:	Department Manager
PROCEDURE OWNER (title):	Group Head
OWNER GROUP:	Operations

Verified Current Copy: _____ _____ _____
Signature Date Time

List pages used for Partial Performance	Controlling Work Document Numbers	
	9923207	

INITIALS

4.0 INITIAL CONDITIONS

4.1 This test is being done to satisfy:

✓ The normally scheduled callup. Task sheet No. 9923207

NOTE: **If this test is being performed to satisfy PMT or off-normal frequency requirements, Shift Management may N/A those portions of the procedure that are NOT applicable for the performance of the PMT. The use of N/A is NOT acceptable for Initial Conditions, Precautions and Limitations, or procedure steps that pertain to the equipment requiring PMT, nor is it acceptable for restoration of equipment/components unless the component has been declared inoperable.**

NOTE: **If this test is being performed to satisfy pump PMT requirements any vibration levels above 0.325 ips measured at any ASME Section XI Code required location shall be evaluated by engineering prior to declaring the pump operable.**

_____ Post maintenance operability test
Equipment ID _____
WO No(s). _____
Task Sheet No.(s) _____
_____ Special test - no numbers.
Explain:_____ BT

4.2 Auxiliary feed system lined up for critical operation per CL 13E, Part 2, Auxiliary Feedwater Valve Lineup Motor-Driven. TL

4.3 Standby emergency power shall be available to the 4160 V safeguards buses 1A05, 1A06, 2A05, 2A06, or the component(s) to be tested is/are in the same train that is out of service. TL

4.4 Chemistry notified about auxiliary feed injection. TL

4.5 Reactor power on both Units is reduced a minimum of 2% OR to a power level directed by DSS. (Mark step N/A if in Hot or Cold Shutdown) ✓

INITIALS

4.6 IF performing Section 5.2,
THEN the following auxiliary feedwater pumps with their associated flow paths, are operable as applicable.
(N/A the step that is NOT applicable.)

4.6.1 For two-unit operation:

P-38B, 1P-29, and 2P-29 are operable — TL

4.6.2 For single-unit operation:

P-38B and 1P-29 are operable for Unit 1
OR
P-38B and 2P-29 are operable for Unit 2 — N/A

4.7 IF performing Section 5.36,
THEN the following auxiliary feedwater pumps with their associated flow paths, are operable as applicable.
(N/A the step that is NOT applicable.)

4.7.1 For two-unit operation:

P-38A, 1P-29, and 2P-29 are operable — TL

4.7.2 For single-unit operation:

P-38A and 1P-29 are operable for Unit 1
OR
P-38A and 2P-29 are operable for Unit 2 — N/A

4.8 **Permission to Perform Test**

The conditions required by this test are consistent with required plant conditions, including equipment operability. Permission is granted to perform this test.

DSS TL for RWH TIME 0133 DATE 6/1/01

INITIALS

NOTE: When operability testing of Train A is NOT required, then N/A Steps 5.2 through 5.35.

5.2 TRAIN A TEST

5.2.1 IF sufficient qualified operators are NOT available on shift to support Step 5.2.2,
THEN consider the equipment unavailable per Maintenance Rule AND N/A Step 5.2.2. N/A

5.2.2 Assign a Level 4 Dedicated Operator in the Control Room AND a Level 4 Dedicated Operator in the field per OM 3.26, Use of Dedicated Operators, to perform the restoration steps of Attachment J, if required. (Otherwise mark this step as N/A) ✓

5.3 ENTER a LCO for P-38A.
(N/A this step if NOT required for current plant conditions per Technical Specification 15.3.4)

TIME 0135 DATE 6-1-01

5.4 IF at any time during the performance of this test an Auxiliary Feedwater Initiation is required,
THEN immediately perform Attachment J to recover Train A.
(N/A this step if NOT required.) N/A ✓

NOTE: **When performing operability checks of the pump only, then N/A Subsections of 5.5 through 5.9 and Steps 5.23 through 5.30.**

NOTE: **To prevent preconditioning a valve, the applicable Section steps shall be performed out of sequence to provide a recordable action for each valve manipulation. (i.e., If the initial position of the valve is shut and the first step is to shut and time the valve, then the opening stroke evolution shall be performed first.)**

5.5 PERFORM the following to stroke AF-4022, P-38A AFP Discharge to 2HX-1A Steam Generator:

5.5.1 Open AND time AF-4022, P-38A AFP Discharge to 2HX-1A Steam Generator:

a. Record time to open on Attachment A. ✓

b. Check local valve position indication and record on Attachment A. ✓

INITIALS

CAUTION

If, at any time, equipment operation appears abnormal, secure the pump.

NOTE: **C01A 2-8 and 2-10, Auxiliary Feedwater System Disabled, annunciator will clear when P-38B is removed from PULLOUT.**

5.48 Start P-38B. Time Start 0456 Q

NOTE: **P-38B suction pressure trip is set at 6.5 psig (with a 20 second time delay).**

5.49 Verify P-38B suction pressure as read on PI-4017A is greater than the 7.0 psig low suction pressure alarm setpoint. Record on Attachment F. Q for T

5.50 Check AF-4014, P-38B AFP Mini-Recirc Control, mini-recirculation valve open. Q

5.51 Check mini-recirculation flow equal to or greater than 70 gpm on FIT-4050B. Q for T

5.52 Check packing glands for excessive leakage or overheating. Q for T

5.53 Check the pump and motor for unusual noise or overheating. Q for T

5.54 WHEN P-38B has run for five-minutes,
THEN record the following data on Attachment F:

- PI-4018, Pump Discharge Pressure
- PI-4017A, Pump Suction Pressure
- FIT-4050B, Mini-Recirculation Flow
- Recirculation Flow Vibration Data

Q

ATTACHMENT B
P-38A, AFW PUMP PERFORMANCE DATA (RECIRCULATION FLOW)

NOTE 1: **The data recorded on Attachment B is for information only.**

NOTE 2: **Vibration points which are shaded must be recorded by the Micro-logger but are NOT required to be transferred to the table. Only points marked A, B, C, D, and E must be transferred to the table and are required for ASME Section XI. See Figure 1 for locations.**

Step No.	Parameter Measured	Units	Reading	Acceptance Criteria	Initials
5.12.3	PI-4010A, P-38A AFP Suction Pressure	psig	16	N/A	q for RAA
5.15	PI-4010A, P-38A AFP Suction Pressure	psig	15.8	>7	q for RAA
5.20	PI-4011 Pump Discharge Pressure	psig	1310	N/A	q for RAA
5.20	PI-4010A, P-38A AFP Suction Pressure	psig	15.8	N/A	q for RAA
5.20	FIT-4050A, Mini-Recirc Flow	gpm	75.4	N/A	q for RAA

5.20	Recirculation Flow Vibration Data	INSTRUMENT	UNITS	READINGS
P38A 1V ips	Note 2	Micro-logger	IPS pk	
P38A 1H ips	Note 2	Micro-logger	IPS pk	
P38A 1H ae	Note 2	Micro-logger	G env	
P38A 1H acc	Note 2	Micro-logger	G pk	
P38A 1A ips	Note 2	Micro-logger	IPS pk	
P38A 2V ips	Note 2	Micro-logger	IPS pk	
P38A 2H ips	Note 2	Micro-logger	IPS pk	
P38A 2H ae	Note 2	Micro-logger	G env	
P38A 2H acc	Note 2	Micro-logger	G pk	
P38A 2A ips	Note 2	Micro-logger	IPS pk	
P38A 3V ips	Note 2	Micro-logger	IPS pk	
P38A 3H ips	Note 2	Micro-logger	IPS pk	
P38A 3H ae	Note 2	Micro-logger	G env	
P38A 3H acc	Note 2	Micro-logger	G pk	
P38A 4V ips	Note 2	Micro-logger	IPS pk	
P38A 4H ips	Note 2	Micro-logger	IPS pk	
P38A 4H ae	Note 2	Micro-logger	G env	
P38A 4H acc	Note 2	Micro-logger	G pk	
P38A 4A ips	Note 2	Micro-logger	IPS pk	

ATTACHMENT F
P-38B, AFW PUMP PERFORMANCE DATA (RECIRCULATION FLOW)

NOTE 1: **The data recorded on Attachment F is for information only.**

NOTE 2: **Vibration points which are shaded must be recorded by the Micro-logger but are NOT required to be transferred to the table. Only points marked A, B, C, D, and E must be transferred to the table and are required for ASME Section XI. See Figure 1 for Locations.**

Step No.	Parameter Measured	Units	Reading	Acceptance Criteria	Initials
5.46.3	PI-4017A, P-38B AFP Suction Pressure	psig	16	N/A	Q for JMJ
5.49	PI-4017A, P-38B AFP Suction Pressure	psig	16	>7	Q for JMJ
5.54	PI-4018 Pump Discharge Pressure	psig	1305	N/A	Q for JMJ
5.54	PI-4017A, P-38B AFP Suction Pressure	psig	15.9	N/A	Q for JMJ
5.54	FIT-4050B, Mini-Recirc Flow	gpm	75.3	N/A	Q for JMJ

5.54	Recirculation Flow Vibration Data		INSTRUMENT	UNITS	READINGS
P38B 1V ips		Note 2	Micro-logger	IPS pk	
P38B 1H ips		Note 2	Micro-logger	IPS pk	
P38B 1H ae		Note 2	Micro-logger	G env	
P38B 1H acc		Note 2	Micro-logger	G pk	
P38B 1A ips		Note 2	Micro-logger	IPS pk	
P38B 2V ips		Note 2	Micro-logger	IPS pk	
P38B 2H ips		Note 2	Micro-logger	IPS pk	
P38B 2H ae		Note 2	Micro-logger	G env	
P38B 2H acc		Note 2	Micro-logger	G pk	
P38B 2A ips		Note 2	Micro-logger	IPS pk	
P38B 3V ips		Note 2	Micro-logger	IPS pk	
P38B 3H ips		Note 2	Micro-logger	IPS pk	
P38B 3H ae		Note 2	Micro-logger	G env	
P38B 3H acc		Note 2	Micro-logger	G pk	
P38B 4V ips		Note 2	Micro-logger	IPS pk	
P38B 4H ips		Note 2	Micro-logger	IPS pk	
P38B 4H ae		Note 2	Micro-logger	G env	
P38B 4H acc		Note 2	Micro-logger	G pk	
P38B 4A ips		Note 2	Micro-logger	IPS pk	