

Point Beach Nuclear Plant
PROCEDURE RECORD AND FIELD COPY TRACKING

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Procedure Number IT-10 Unit PB0 Revision Number 41

Procedure Title TEST OF ELECT. DRIVEN AUX. FEED PUMPS & VALVES Revision Date 2/26/01

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

By *[Signature]* Date 3/15/01

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IT 10

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

DOCUMENT TYPE: Technical

CLASSIFICATION: Safety Related

REVISION: 41

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List pages used for Partial Performance

1-7, 24-44, 51-57, 61-62

Controlling Work Document Numbers

9923206

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

INITIALS

4.0 INITIAL CONDITIONS

4.1 This test is being done to satisfy:

The normally scheduled callup Task sheet No. 9923706

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: _____

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

[Signature]
X

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.

[Signature]
X

4.4 Chemistry notified about auxiliary feed injection.

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)

[Signature]
X

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

INITIALS

4.6 IF performing Section 5.3, 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

N/A

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 5.37, 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

X

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

NA

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 [Signature] TIME 30 DATE 9/18/01

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

INITIALS

5.36.2 IF Train B is NOT to be tested.
THEN proceed to Step 5.71, Recovery.

D/L

NOTE: DSS permission is required to proceed with Step 5.37.

NOTE: When operability testing of Train B is NOT required, then N/A Steps 5.37 through 5.70.

5.37 TRAIN B TEST

5.37.1 IF sufficient qualified operators are NOT available on shift to support Step 5.37.2,
THEN consider the equipment unavailable per Maintenance Rule AND N/A Step 5.37.2.

5.37.2 Assign a Qualified Individual 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 K, if required. (Otherwise mark this step as N/A)

013B

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

TIME 2358 DATE 3/15/01

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

N/A

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

INITIALS

CAUTION

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

NOTE: Unit 1 and Unit 2 AFP Interlock Defeat key switches must be defeated per Step 5.2 prior to pump start.

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

5.49 Start P-38B.

Time Start 0235

RD

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

5.50 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. ¹⁶

RD

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

RD

5.52 Check mini-recirculation flow equal to or greater than 70 gpm on FIT-4050B. ^{75.7}

RD for PDI

5.53 Check packing glands for excessive leakage or overheating.

RD for PDI

5.54 Check the pump and motor for unusual noise or overheating.

RD for PDI

5.55 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

RD

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

INITIALS

6.0 ANALYSIS

6.1 Operations

6.1.1 Comparisons with allowable ranges of Acceptance Criteria test values complete. All performers have signed onto the
Performed by page-

Paul [Signature]
S/C

3/16/01 0840
Date/Time

6.1.2 Form and completed procedure to IST Coordinator

NOTE: To be completed within 96 hours of test completion by IST coordinator or his representative.

6.2 IST Coordinator

6.2.1 Comparisons with allowable ranges of test values and analysis of deviations complete

[Signature]

6.2.2 Any requirements for corrective action? (If yes, give details in the IST Remarks section.)

[Signature]

(Circle one) YES NO

6.2.3 IF Acceptance Criteria needs updating,
THEN initiate a procedure revision. (Otherwise N/A)

Janet [Signature]
Data Administrator By

3.16.01
Date/Time

*
N/A

IST Remarks:

* TREND DATA FOR AF-4/021, IST-C, INDICATES RE-BASELINING MAY BE APPROPRIATE

Ave SFC = 16.6 SEC FOR 12/2/99 TO 3/15/01. CURRENT CRITERIA IS

16.01 TO 21.65 SEC.; THIS IS BASED ON A 18.8 SEC. REF. VALUE.

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

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
5.47.3	PI-4017A, P-38B AFP Suction Pressure	psig	16.2	N/A	TOP for PDD
5.50	PI-4017A, P-38B AFP Suction Pressure	psig	16	>7	TOP for PDD
5.55	PI-4018 Pump Discharge Pressure	psig	1310	N/A	TOP for PDD
5.55	PI-4017A, P-38B AFP Suction Pressure	psig	16	N/A	TOP for PDD
5.55	FIT-4050B, Mini-Recirc Flow	gpm	75.7	N/A	TOP for PDD
5.55	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 .0523	Note 2	Micro-logger	IPS pk	
	P38B 3H ips .0709	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 .0637	Note 2	Micro-logger	IPS pk	
	P38B 4H ips .0987	Note 2	Micro-logger	IPS pk	
	P38B 4H ae	Note 2	Micro-logger	G env	
	P38B 4H acc .0987 pk	Note 2	Micro-logger	G pk	
	P38B 4A ips .0750	Note 2	Micro-logger	IPS pk	