# Point Beach Nuclear Plant PROCEDURE RECORD AND FIELD COPY TRACKING

R	ecord/Field Copy Identification			Field Copy Number	
RED -	Record Copy; BLACK - Field Copy				
Procedure Nu	mber IT - 10	Unit	PB0	Revision Number	43
Procedure Titl	le Test of Electrically-Driven Auxiliary F	Feed Pumps a	ind Valves	Revision Date	7/5/01
Procedure Rev	vision Checked and Current: Tracking Check				
Ву	Ka fofm			Date	4/15/01
Record Copy	Holder/Location Control Operator / Con	trol Room			
	FIELD COP	Y DISTRIB	UTION	******	
Сору №.	Holder/Locati	ion		Issue Date	Return Date
1	Field Operator / Turbine Building			1/1/2	11/16/01 .
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NOTE 2:	ANY TEMPORARY CHANGES MADE TO T AND ALL OTHER FIELD COPIES THAT HA RETURN ALL FIELD COPIES TO THE HOL COMPLETION.	AVE BEEN IS	SSUED.	,	

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Reference NP 1 1 4

### IT 10

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

**DOCUMENT TYPE:** Technical

CLASSIFICATION: Safety Related

**REVISION: 43** 

EFFECTIVE DATE: July 5, 2001

REVIEWER: Oualified Reviewer

APPROVAL AUTHORITY: Department Manager

PROCEDURE OWNER (title): Group Head

OWNER GROUP: Operations

Verified Current Copy:			
Sign	ature	Date	Time
List pages used for Partial Performance	Controll <u>992 92</u>	ing Work Document	Numbers
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4.0

**INSERVICE TESTS** 

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

INITIALS

INIT	IAL CONDITIONS	
4.1	This test is being done to satisfy:	
	X The normally scheduled callup. Task sheet No. 992 9227	
NOT	E: 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.	
NOT	E: 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:	87
4.2	Auxiliary feed system lined up for critical operation per CL 13E, Part 2, Auxiliary Feedwater Valve Lineup Motor-Driven.	Sita
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.	DK ~.
4.4	Chemistry notified about auxiliary feed injection.	Den
4.5	Reactor power on both Units is reduced a minimum of 2% <u>OR</u> to a power level directed by DSS. (Mark step N/A if in CTS: Hot or Cold Shutdown {ITS: Modes 3, 4, 5, 6, & defueled})	Sky

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

INITIALS

4.6 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.

74 TIME <u>2013</u> DATE <u>///</u>

NOTE:

Attachment L'shall be used to document performance of multiple step performance and to record data. A separate copy of Attachment L shall be prepared for each step series requiring multiple performance and all copies shall be attached to this procedure when the procedure is complete.

#### 5.0 **PROCEDURE**

- 5.1 IF in CTS: cold shutdown {ITS: Modes 5, 6, or defueled}, THEN verify the following: (Otherwise mark this step as N/A)
  - The Steam Generators are drained to a level sufficient to accept FW flows.
  - The RCS is NOT solid.

NOTE: When operability testing of Train A is NOT required, then N/A Steps 5.2 through 5.38.

#### 5.2 TRAIN A TEST

- 5.2.1 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.)
  - a. For two-unit operation:

P-38B, 1P-29, and 2P-29 are operable.

DKa

b. For single-unit operation:

P-38B and 1P-29 are operable for Unit 1.

P-38B and 2P-29 are operable for Unit 2.

Nia CKm

## POINT BEACH NUCLEAR PLANT INSERVICE TESTS

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

			INITIALS
	5.2.2	IF sufficient qualified operators are NOT available on shift to support Step 5.2.3, THEN consider the equipment unavailable per Maintenance Rule AND N/A Step 5.2.3.	NIA OKON
	5.2.3	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)	Okm
5.3	(N/A this CTS: Tec	TS: LCO {ITS: Action Condition} for P-38A.  step if NOT required for current plant conditions per chnical Specification 15.3.4. {ITS: 3.7.5})	
	TIME	2015 DATE 11/15/01	20
5.4	Initiation THEN in	time during the performance of this test an Auxiliary Feedwater is required, nmediately perform Attachment J to recover Train A. step if NOT required.)	N/A ~

## POINT BEACH NUCLEAR PLANT INSERVICE TESTS

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

INITIALS P-38A suction pressure trip is set at 6.5 psig (with a 20 second time NOTE: delay). Verify P-38A suction pressure as read on PI-4010A is greater than the 5.15 7.0 psig low suction pressure alarm setpoint. Record on Attachment B. Stor For KT, 5.16 Check AF-4007, P-38A AFP Mini-Recirc Control, mini-recirculation valve open. Check mini-recirculation flow equal to or greater than 70 gpm on 5.17 FIT-4050A. 7755~ SKA FOOKTA Check the packing glands for excessive leakage or overheating. 5.18 Den For KTA Check pump and motor for unusual noise or overheating. 5.19 5.20 WHEN P-38A has run for five-minutes, THEN record the following on Attachment B. PI-4011, Pump Discharge Pressure. • PI-4010A, Pump Suction Pressure. • FIT-4050A, Mini-Recirculation Flow. Recirculation Flow Vibration Data. Dan For KTA

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

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INITIALS

NOTE: DSS permission is required to proceed with Step 5.39.

NOTE: When operability testing of Train B is  $\underline{NOT}$  required, then N/A

Steps 5.39 through 5.75.

#### 5.39 TRAIN B TEST

5.39.1 <u>IF</u> performing Section 5.39, <u>THEN</u> the following auxiliary feedwater pumps with their associated flow paths, are operable as applicable. (N/A the step that is NOT applicable.)

a. For two-unit operation:

P-38A, 1P-29, and 2P-29 are operable.

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b. For single-unit operation:

P-38A and 1P-29 are operable for Unit 1.

 $\underline{OR}$ 

P-38A and 2P-29 are operable for Unit 2.

-1/2 Sty

5.39.2 <u>IF</u> sufficient qualified operators are <u>NOT</u> available on shift to support Step 5.39.3,

THEN consider the equipment unavailable per Maintenance Rule

AND N/A Step 5.39.3.

NIA

5.39.3 Assign a Level 4 Dedicated Operator in the Control Room

<u>AND</u> 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)

2

5.40 Enter a CTS: LCO {ITS: Action Condition} for P-38B.

(N/A this step if NOT required for current plant conditions per

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5.41 <u>IF</u> at any time during the performance of this test an Auxiliary Feedwater Initiation is required,

<u>THEN</u> immediately perform Attachment K to recover Train B. (N/A this step if <u>NOT</u> required.)

NA

# POINT BEACH NUCLEAR PLANT INSERVICE TESTS

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

		INITIALS
NOTE	P-38B suction pressure trip is set at 6.5 psig (with a 20 second time delay).	
5.52	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 FIKTA
5.53	Check AF-4014, P-38B AFP Mini-Recirc Control, mini-recirc tlation valve open.	<u>a</u>
5.54	Check mini-recirculation flow equal to or greater than 70 gpm on FIT-4050B.	A FIKTA
5.55	Check packing glands for excessive leakage or overheating.	A FIKIA
5.56	Check the pump and motor for unusual noise or overheating.	a fra
5.57	WHEN P-38B has run for five-minutes, THEN record the following data on Attachment F.	
	<ul> <li>PI-4018, Pump Discharge Pressure</li> <li>PI-4017A, Pump Suction Pressure</li> <li>FIT-4050B, Mini-Recirculation Flow</li> <li>Recirculation Flow Vibration Data</li> </ul>	9

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

# 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	e Initials
5.12.3	PI-4010A, P-38A AFP Suction Pressure	psig	15.8	N/A	SKA FIZKTA
5.15	PI-4010A, P-38A AFP Suction Pressure	psig	15.7	>7	Oka Fac KTA
5.20	PI-4011 Pump Discharge Pressure	psig	1310	N/A	1 8
5.20	PI-4010A, P-38A AFP Suction Pressure	psig	15.7	N/A	
5.20	FIT-4050A, Mini-Recirc Flow	gpm	77	N/A	
5.20	Recirculation Flow Vibration Data	"'STI	RUMENT	UNITS	READINGS
P38A 1V	ps Note 2	Mi	cro-logger	IPS pk	23.30 计数据
P38A 1H	ps Note 2	Mi	cro-logger	IPS pk	<b>。</b>
P38A 1H	ac Note 2	Mi	cro-logger	Genv	CONTROL DA
P38A 1H	acc Note 2	Mi	cro-logger	G pk	<b>新疆区域</b>
P38A iA ips Note 2		Mi	l·licro-logger		MANAGEME
P38A 2V ips Note 2		Mi	cro-logger	IPS pk	
P38A 2H ips Note 2		Mi	cro-logger	IPS pk	
P38A 2H ac Note 2		Mi	cro-logger	Genv	
P38A 2H acc Note 2		Mi	сто-logger	G pk	
P38A 2A	ips Note 2	Mi	cro-logger	IPS pk	
P38A 3V	ips Note 2	Mi	cro-logger	IPS pk	
P38A 3H	irs Note 2	Mi	Micro-logger		
P38A 3H ae Note 2		Mi	Micro-logger		
P38A 3H acc Note 2		Mi	Micro-logger		
P38A 4V ips Note 2		Mi	Micro-logger		<b>WASHING</b>
P38A 4H ips Note 2		Mi	Micro-logger		
P38A 4H ae Note 2		Mi	cro-logger	G env	
P38A 4H acc Note 2		Mi	cro-logger	G pk	是那些話話
P38A 4A ips Note 2		Mi	cro-logger	IPS pk	語語を表する



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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 <u>NOT</u> 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
5.49.3	PI-4017A, P-38B AFP Suction Pressure	psig	16	NVA	1	9
5.52	PI-4017A, P-38B AFP Suction Pressure	psig	15.8	>7		at KTA
5.57	PI-4018 Pump Discharge Pressure	psig	1305	N/A	4	
5.57	PI-4017A, P-38B AFP Suction Pressure	psig	15-8	N/A	4	9 forkin
5.57	FIT-4050B, Mini-Recirc Flow	gpm	74	N/A	A	8 for Kith
5.57	Recirculation Flow Vibration Data	INS	TRUMENT	UNITS	REAL	
P38B 1V i	ps Note 2	Mic	ro-logger	IPS pk	<b>24</b>	
P38B 1H	ips Note 2	Mic	ro-logger	IPS pk		
P38B 1H	ar Note 2			G env		
P38B 1H	acc Note 2	Micro-logger		Gpk		
P38B 1A ips Note 2		Micro-logger		IPS pk	433	
P38B 2V ips Note 2		Mic	ro-logger	IPS pk	N. T.	
P38B 2H ips Note 2		Mic	ro-logger	IPS pk	THE SE	
P38B 2H ae Note 2		Mic	ro-logger	G env		A STATE OF THE STA
P38B 2H acc Note 2		Mic	ro-logger	Gpk	200	
P38B 2A ips Note 2		Mic	ro-logger	IPS pk		
P38B 3V i	ps Note 2	Micro-logger		IPS pk	483	
P38B 3H i	ps Note 2	Micro-logger		IPS pk	200	
P38B 3H a	P38B 3H ae Note 2		Micro-logge-		<b>3</b>	
P38B 3H acc iVote 2		Micro-logger		G pk		<b>3000000000000000000000000000000000000</b>
P38B 4V ips Note 2		Micro-logger		IPS pk	300	
P38B 4H ips Note 2		Micro-logger		IPS pk	THE STATE OF	AND REAL PROPERTY.
P38B 4H ae Note 2		Micro-logger		G cnv	<b>33.8</b>	利益指揮而言
P38B 4H acc Note 2		Mic	ro-logger	G pk	201	经多项程度
P38B 4A ips Note 2		Mic	ro-logger	IPS pk	375	<b>海河</b>