Nuclear Power Business Unit

TEMPORARY CHANGE REVIEW AND APPROVAL

Note: Refer to NP 1.2.3, Temporary Procedure Changes, for requirements.

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Page 1 of _____

Group Tracking Chui#Z

	I - INITIATION		
Doc Numb	er IT 08A Current Rev 29 Unit PB1 Temp Change No.	2002-0	1847
Document	Title Cold Start of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly) [/04/
Existing Ef	ffective Temporary Changes 2002-0722		
Brief Desci	ription Add P&L and Cautions associated with AFW minimum Flow		
(Identify speci	ific changes on Form PBF-0026c, Document Review and Approval Continuation, and include with the package)		
🛛 Initiate	PBF-0026h and include with the change.		
Other docu	ments required to be effective concurrently with the temporary change:		
Changes pr	e-screened according to NP 5.1.8? XINO YES (Provide documentation according to NP 5.1.8)		——————————————————————————————————————
Screening of	completed according to NP 5.1.8? NA VES (Attach copy)		
Safety Eval	luation Required? 🛛 NO 🗌 YES (If Yes, a revision may be processed or final reviews and approvals shall be obtained t	efore implemen	ting)
Determine (If any answer	if the change constitutes a Change Of Intent to the procedure by evaluating the following que:	stions.	
Will the pr	roposed change:	VES	NO
1. R	equire a change to, affect or invalidate a requirement, commitment, evaluation or	-	
de	escription in the Current or ISFSI Licensing Basis (as defined in NP 5.1.8 and NP 5.1.7)?		
2. C	ause an increase in magnitude, significance or impact such that it should be processed as a vision?		\boxtimes
3. D co	elete or modify a prerequisite, initial condition, precaution, limitation or other steps that ould have safety significance or affect the procedure's margin of safety?	\boxtimes	
4. D re	elete QC hold points, Independent Verification or Concurrent Check steps without the lated step(s) that require the performance also being deleted?		\boxtimes
5. Cl	hange Tech Spec or other regulatory acceptance criteria other than for re-baselining urposes?		
6. R	equire a change to the procedure Purpose or change the procedure classification?	П	
Initiated By	(print/sign) Ross Groehler Part HALL _		7002
			72002
	II - INITIAL APPROVAL		
11	clear safety or Plant operating conditions	personnel	or
Group Supe	ervisor (nrint/sign)		122
	(Cannot be the Initiator)	‴ <i>ЩӉ</i>	
Тһ	is change does not adversely affect Plant operating sonditions (Safety Retaild procedures only)	ĺ.	
Senior Read	ctor Operator (print/sign) RONHARTER / Configuration Da	$te \underline{n(1)}$	
	(Cannot be the Initiator or Group Supervisor)		
N n	III - PROCEDURE OWNER REVIEW		
U Perman	ent Done-time Use Expiration Date, Event or Condition:		
	ange until procedure completed (final review and approval still required within 14 days of ini	tial approv	al)
Procedure (Where (nrint/sign)	(Reference NF)	<i>in</i>
Thi	is Change and supporting requirements correctly completed and processed		100
	IV - FINAL REVIEW AND APPROVAL	/	
(Must be co	omoleted within 14 days of initial approval (The Initiator. OR and Approval Authority shall be independed	ent from escl	h other)
OR MSS (p	rint/sign) $K O U I I O V V Da$	te <u>/1//</u>	102-
- Ind cros	icates 50.59/72.48 applicability assessed, any necessary screenings/evaluations performed, determination made as to ss-disciplinary review required, and if required, performed.	whether	ional
MSS Meetin	ng No / /// ///	1700	1000
Approval A	uthority (print/sign) V / (e. / 1) / (Da	te -1-1-	mit the
	V - REVISION INFORMATION FOR PERMANENT CHANGES	NI.	
Post Typing Indi	Review (print/sign) / Da cates temporary change(s) incorporated exactly as approved and no other changes made to document		3D
Incorporated	d into Revision Number Effective Da	te	- ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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Point Beach Nuclear Plant DOCUMENT REVIEW AND APPROVAL CONTINUATION

Page ____ of ____

Doc Number	IT 08A Revision 29 Unit PB1
Title Cold Sta	art Of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly) Unit 1
Temporary Chan	ge Number 2002-0847
Description of C	changes:
Step *	Change/Reason
3.8	Add new P&L associated with maintaining AFW minimum flow requirements./ See SCR 2002-0458, and also CAP029908 and CAP029952.
Caution before step 5.24	Add new caution associated with maintaining AFW minimum flow requirements. Caution added at a point where flow is being adjusted and minimum recirc flow is established / See SCR 2002-0458, and also CAP029908 and CAP029952.
Caution before step 5.49	Add new caution associated with maintaining AFW minimum flow requirements. Caution added at a point where flow is being adjusted and minimum recirc flow is established / See SCR 2002-0458, and also CAP029908 and CAP029952.
Caution before step 5.57	Add new caution associated with maintaining AFW minimum flow requirements. Caution added at a point where flow is being adjusted and minimum recirc flow is established / See SCR 2002-0458, and also CAP029908 and CAP029952.
Caution before	Add new caution associated with maintaining AFW minimum flow requirements. Caution added at a point where flow is being adjusted and minimum recirc flow is established / See SCR 2002-0458, and also CAP029908 and CAP029952.
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Other Comments

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* Note: Recording of Step Number(s) is not required for multiple occurrences of identical information or when not beneficial to reviewers.

Point Beach Nuclear Plant TEMPORARY CHANGE AFFECTED MANUAL LOCATION

	Page _	of
Procedure Number IT 08A Revision	29	Unit PB1
Title Cold Start Of Turbine-Driven Auxiliary Feed Pump and Valve Test (Quarterly) Unit I	1	
Temporary Change Number2002-0847		
I - IMMEDIATELY AFTER INITIAL APPROVAL ON PBF-0026e (Non-In (after Final Approval if change of intent involved)	itent chang	;c)
This procedure change has been processed as follows: (Manual/Location)		Date Performed
Copy included in work package for field implementation. (WO No.	_)_	
Copy filed in Control Room temp change binder (Operations only).		11-1-02
Original change package provided to <u>KGS</u> to obtain Procedure Ov Review (e.g., Owner review may be coordinated by In-Group OA II, Procedure Writer, Procedure Supervisor, etc.)	vner).	11-1-02
Performed By (print and sign) Carol Schoeder 1 Cull Schwede	, Date	11-1-02
II - PROCEDURE OWNER REVIEW ON PBF-0026e (may be performed by OA II, Procedure Writer, etc.)		
This procedure change has been processed as follows: (Manual/Location)		Date Performed
Copy sent to Document Control Distribution Lead for Master File. (Not required for one-time use change)		11-1-02
Copy filed in Group satellite file. (Not required for one-time use changes.)		
Copy filed in Group one-time use file.		
Original Temp Change provided to to obtain Final Approv (e.g., final approval may be coordinated by In-Group OA II, Procedure Writer, Procedure Supervisor, etc.)	'als	11-1-02
12 Contro Run Drawer		11-1-02
Performed By (print and sign) Caul Schwacded Caul Schwacde.	Date	11-1-02

SCR 2002-0458

Verify SCR number on all pages Page 1

Title of Proposed Activity:

AFW minimum flow requirement change to AOP, EOP, CSP, ECA, SEP, OI-62 A/B procedures

Associated Reference(s) #:

Removal of internals from AF-117 and upgrade open function of AFW pumps minirecirc vlaves to safety -related (MR 02-029); SCR 2002-005-01 EOP/ARP actions for AFW mini-recirc requirement; 2002-0055, P-38A/B mini recirc flow orifice replacment (MR 99-029 *A, *B); Flowserve Corporation Pump Division letter dated March 2, 20012; CAP 29908; CAP 29952

		<i>1</i>	,
Prepared by:	Eric A. Schmidt / John P. Schroeder Name (Print)	Signature	10/20/02
Reviewed by:	Name (Print)	Date: Signature	10/29/02

PART I (50.59/72.48) - DESCRIBE THE PROPOSED ACTIVITY AND SEARCH THE PLANT AND ISFSI LICENSING BASIS (Resource Manual 5.3.1)

- NOTE: The "<u>NMC 10 CFR 50.59 Resource Manual</u>" (Resource Manual) and <u>NEI 96-07, Appendix B, Guidelines for</u> <u>10 CFR 72.48 Implementation</u> should be used for guidance to determine the proper responses for 10 CFR 50.59 and 10 CFR 72.48 screenings.
- 1 Describe the proposed activity and the scope of the activity being covered by this screening. (The 10 CFR 50.59 / 72.48 review of other portions of the proposed activity may be documented via the applicability and pre-screening process requirements in NP 5.1.8.) Appropriate descriptive material may be attached.

This screening supports procedural uprgrades to address the Auxiliary Feedwater (AFW) System issue as identified in CAP 29908 and CAP 29952. Procedural guidance for operation of AFW System will be changed such that the operator must ensure that discharge flow for P-38 A/B must be greater than 50 gpm and 1/2 P-29 discharge flow must be greater than 75 gpm. If pump flow cannot be maintained within these requirements, the pump must be secured.

I.2 Search the PBNP Current Licensing Basis (CLB) as follows: Final Safety Analysis Report (FSAR), FSAR Change Requests (FCRs) with assigned numbers, the Fire Protection Evaluation Report (FPER), the CLB (Regulatory) Commitment Database, the Technical Specifications, the Technical Specifications Bases, and the Technical Requirements Manual. Search the ISFSI licensing basis as follows: VSC-24 Safety Analysis Report, the VSC-24 Certificate of Compliance, the CLB (Regulatory) Commitment Database, and the VSC-24 10 CFR 72.212 Site Evaluation Report. Describe the pertinent design function(s), performance requirements, and methods of evaluation for both the plant and for the cask/ISFSI as appropriate. Identify where the pertinent information is described in the above documents (by document section number and title). (Resource Manual 5.3.1 and NEI 96-07, App. B, B.2)

FSAR 10.2 Auxiliary Feedwater System (AF) - The AFW system shall automatically start and deliver adequate AFW flow to maintain adequate steam generator levels during accidents which may result in main steam safety valve opening, such as: Loss of normal feedwater (LONF) and Loss of all AC power to the station auxiliaries (LOAC). AFW system shall also deliver sufficient flow to the steam generators supporting rapid cooldown during such accidents as: steam generator tube rupture (SGTR) and main steam line break (MSLB).

Each pump has an AOV controlled recirculation line back to the condensate storage tanks to ensure minimum flow to prevent hydraulic instabilities and dissipate pump heat.

TS 3.7.5 Auxiliary Feedwater (AFW) System

TS Bases B 3.7.5 Auxiliary Feedwater (AFW) System

FSAR 7.3.3.4 Manual AFW Flow Control During Plant Shutdown Manual control of steam generator water level using the AF pumps to remove reactor decay and sensible heat.

FPER 6.6.4 Auxiliary Feedwater System The Auxiliary Feedwater Pumps are provided with a mini-recirc line to ensure a minimum amount of flow is established to keep the pumps from dead heading.

Verify SCR number on all pages Page 2

FSAR 10.2 Auxiliary Feedwater System (AF) TS 3.7.5 Auxiliary Feedwater (AFW) System TS Bases B 3.7.5 Auxiliary Feedwater (AFW) System FSAR 7.3.3.4 Manual AFW Flow Control During Plant Shutdown FPER 6.6.4 Auxiliary Feedwater System

I.3 Does the proposed activity involve a change to any Technical Specification? Changes to Technical Specifications require a License Amendment Request (Resource Manual Section 5.3.1.2).

Technical Specification Change :

If a Technical Specification change is required, explain what the change should be and why it is required.

I.4 Does the proposed activity involve a change to the terms, conditions or specifications incorporated in any VSC-24 cask Certificate of Compliance (CoC)? Changes to a VSC-24 cask Certificate of Compliance require a CoC amendment request.

🗌 Yes 🖾 No

If a storage cask Certificate of Compliance change is required, explain what the change should be and why it is required.

PART II (50.59) - DETERMINE IF THE CHANGE INVOLVES A DESIGN FUNCTION (Resource Manual 5.3.2)

Compare the proposed activity to the relevant CLB descriptions, and answer the following questions:

YES	NO	QUESTION
\boxtimes		Does the proposed activity involve Safety Analyses or structures, systems and components (SSCs) credited in the Safety Analyses?
	\boxtimes	Does the proposed activity involve SSCs that support SSC(s) credited in the Safety Analyses?
\boxtimes		Does the proposed activity involve SSCs whose failure could initiate a transient (e.g., reactor trip, loss of feedwater, etc.) or accident, <u>OR</u> whose failure could impact SSC(s) credited in the Safety Analyses?
		Does the proposed activity involve CLB-described SSCs or procedural controls that perform functions that are required by, or otherwise necessary to comply with, regulations, license conditions, orders or technical specifications?
	\boxtimes	Does the activity involve a method of evaluation described in the FSAR?
	\boxtimes	Is the activity a test or experiment? (i.e., a non-passive activity which gathers data)
	\boxtimes	Does the activity exceed or potentially affect a <i>design basis limit for a fission product barrier (DBLFPB)</i> ? (NOTE: If <u>THIS</u> questions is answered <u>YES</u> , a 10 CFR 50.59 Evaluation is required.)

the answers to <u>ALL</u> of these questions are <u>NO</u>, mark Part III as not applicable, document the 10 CFR 50.59 screening in the .onclusion section (Part IV), then proceed directly to Part V - 10 CFR 72.48 Pre-screening Questions.

If any of the above questions are marked <u>YES</u>, identify below the specific design function(s), method of evaluation(s) or DBLFPB(s) involved.

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MR-02-029 upgraded the open function of the AFW pumps mini-recirc AOV to safety-related. The safety-related boundary includes the recirc orifice and all associated upstream components and piping. It is postulated that a failure of the piping downstream of the recirc orifice will not have any adverse affects on the AFW system. The availability of the recirculation flowpath provides an additional flowpath to support minimum flow requirements. This procedure change will improve the reliability of the AFW pumps by not relying upon the recirc flow path for operability as it has been concluded that the restrictions in the recirc orifice may not be adequate for use. Whereas current guidance mandates that the operator verify the position of the recirc AOV and the status of the Instrument Air system, these procedural changes will only require the operator to monitor pump discharge flow.

PART III (50.59) - DETERMINE WHETHER THE ACTIVITY INVOLVES ADVERSE EFFECTS (Resource Manual 5.3.3)

If <u>ALL</u> the questions in Part II are answered <u>NO</u>, then Part III is **NOT APPLICABLE**.

Answer the following questions to determine if the activity has an *adverse effect* on a design function. Any <u>YES</u> answer means that a 10 CFR 50.59 Evaluation is required; <u>EXCEPT</u> where noted in Part III.3.

- III.1 CHANGES TO THE FACILITY OR PROCEDURES
 - YES NO QUESTION
 - Does the activity adversely affect the *design function* of an SSC credited in safety analyses?
 - Does the activity adversely affect the method of performing or controlling the *design function* of an SSC credited in the safety analyses?

If any answer is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

Minimum flow requirements will be maintained within recommendations from the vendor by monitoring pump discharge flow and securing the pump as required. Starting and stopping of the AFW pumps has been previously evaluated in 50.59 Evaluation 2002-005, which addressed procedural changes to reduce the potential of pump damage as a result of the loss of the recirculation flow path.

III.2 CHANGES TO A METHOD OF EVALUATION

(If the activity does not involve a method of evaluation, these questions are 🛛 NOT APPLICABLE.)

- YES NO QUESTION

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- Does the activity use a revised or different method of evaluation for performing safety analyses than that described in the CLB?
- Does the activity use a revised or different method of evaluation for evaluating SSCs credited in safety analyses than that described in the CLB?

If any answer is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary).

III.3 TESTS OR EXPERIMENTS

If the activity is not a test or experiment, the questions in III.3.a and III.3.b are 🛛 NOT APPLICABLE.

- a. Answer these two questions first:
- YES NO QUESTION
 - Is the proposed test or experiment bounded by other tests or experiments that are described in the CLB?
 - Are the SSCs affected by the proposed test or experiment isolated from the facility?

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If the answer to <u>BOTH</u> questions in V.3.a is <u>NO</u>, continue to III.3.b. If the answer to <u>EITHER</u> question is <u>YES</u>, then describe the basis.

b. Answer these additional questions <u>ONLY</u> for tests or experiments which do <u>NOT</u> meet the criteria given in III.3.a above. If the answer to either question in III.3.a is <u>YES</u>, then these three questions are **NOT** APPLICABLE.

YES	NO	QUESTION
		Does the activity utilize or control an SSC in a manner that is outside the reference bounds of the design bases as described in the CLB?
		Does the activity utilize or control an SSC in a manner that is inconsistent with the analyses or descriptions in the CLB?
		Does the activity place the facility in a condition not previously evaluated or that could affect the capability of an SSC to perform its intended functions?

If any answer in III.3.b is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If the answers in III.3.b are <u>ALL NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

Part IV - 10 CFR 50.59 SCREENING CONCLUSION (Resource Manual 5.3.4).

Check all that apply:

A 10 CFR 50.59 Evaluation is 🗌 required or 🖾 NOT required.

A Point Beach FSAR change is i required or NOT required. If an FSAR change is required, then initiate an FSAR Change Request (FCR) per NP 5.2.6.

A Regulatory Commitment (CLB Commitment Database) change is \Box required or \boxtimes NOT required. If a Regulatory Commitment Change is required, initiate a commitment change per NP 5.1.7.

A Technical Specification Bases change is i required or NOT required. If a change to the Technical Specification Bases is required, then initiate a Technical Specification Bases change per NP 5.2.15.

A Technical Requirements Manual change is Trequired or NOT required. If a change to the Technical Requirements Manual is required, then initiate a Technical Requirements Manual change per NP 5.2.15.

------ 10 CFR 72.48 SCREENING ----

NOTE: <u>NEI 96-07, Appendix B, Guidelines for 10 CFR 72.48 Implementation</u> should be used for guidance to determine the proper responses for 72.48 screenings.

PART V (72.48) - 10 CFR 72.48 INITIAL SCREENING QUESTIONS

Part V determines if a full 10 CFR 72.48 screening is required to be completed (Parts VI and VII) for the proposed activity.

- ES NO QUESTION
- Does the proposed activity involve <u>IN ANY MANNER</u> the dry fuel storage cask(s), the cask transfer/transport equipment, any ISFSI facility SSC(s), or any ISFSI facility monitoring as follows: Multi-Assembly Sealed Basket (MSB), MSB Transfer Cask (MTC), MTC Lifting Yoke, Ventilated Concrete Cask (VCC), Ventilated Storage Cask (VSC), VSC Transporter (VCST), ISFSI Storage Pad Facility, ISFSI Storage Pad Data/Communication Links, or PPCS/ISFSI Continuous Temperature Monitoring System?

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\boxtimes	Does the proposed activity involve <u>IN ANY MANNER</u> SSC(s) installed in the plant specifically added to support cask loading/unloading activities, as follows: Cask Dewatering System (CDW), Cask Reflood System (CRF), or Hydrogen Monitoring System?
	Does the proposed activity involve <u>IN ANY MANNER</u> SSC(s) needed for plant operation which are also used to support cask loading/unloading activities, as follows: Spent Fuel Pool (SFP), SFP Cooling and Filtration (SF), Primary Auxiliary Building Ventilation System (VNPAB), Drumming Area Ventilation System (VNDRM), RE-105 (SFP Low Range Monitor), RE-135 (SFP High Range Monitor), RE-221 (Drumming Area Vent Gas Monitor), RE-325 (Drumming Area Exhaust Low-Range Gas Monitor), PAB Crane, SFP Platform Bridge, Truck Access Area, or Decon Area?
\boxtimes	Does the proposed activity involve a change to <u>Point Beach CLB</u> design criteria for external events such as earthquakes, tornadoes, high winds, flooding, etc.?
\boxtimes	Does the activity involve plant heavy load requirements or procedures for areas of the plant used to support cask loading/unloading activities?
\boxtimes	Does the activity involve any potential for fire or explosion where casks are loaded, unloaded, transported or stored?

If <u>ANY</u> of the Part V questions are answered <u>YES</u>, then a full 10 CFR 72.48 screening is required and answers to the questions in Part VI and Part VII are to be provided. If <u>ALL</u> the questions in Part V are answered <u>NO</u>, then check Parts VI and VII as not applicable. Complete Part VIII to document the conclusion that no 10 CFR 72.48 evaluation is required.

PART VI (72.48) - DETERMINE IF THE CHANGE INVOLVES A ISFSI LICENSING BASIS DESIGN FUNCTION

^{γ}f <u>ALL</u> the questions in Part V are <u>NO</u>, then Part VI is **\Box** NOT APPLICABLE.)

Compare the proposed activity to the relevant portions of the ISFSI licensing basis and answer the following questions:

YES	NO	QUESTION
	\boxtimes	Does the proposed activity involve cask/ISFSI Safety Analyses or plant/cask/ISFSI structures, systems and components (SSCs) credited in the Safety Analyses?
	\boxtimes	Does the proposed activity involve plant, cask or ISFSI SSCs that support SSC(s) credited in the Safety Analyses?
	\boxtimes	Does the proposed activity involve plant, cask or ISFSI SSCs whose function is relied upon for prevention of a radioactive release, <u>OR</u> whose failure could impact SSC(s) credited in the Safety Analyses?
	\boxtimes	Does the proposed activity involve cask/ISFSI described SSCs or procedural controls that perform functions that are required by, or otherwise necessary to comply with, regulations, license conditions, CoC conditions, or orders?
	\boxtimes	Does the activity involve a method of evaluation described in the ISFSI licensing basis?
	\boxtimes	Is the activity a test or experiment? (i.e., a non-passive activity which gathers data)
	\boxtimes	Does the activity exceed or potentially affect a cask <i>design basis limit for a fission product barrier (DBLFPB)</i> ? (NOTE: If <u>THIS</u> questions is answered <u>YES</u> , a 10 CFR 72.48 Evaluation is required.)

If the answers to <u>ALL</u> of these questions are <u>NO</u>, mark Parts VII as not applicable, and document the 10 CFR 72.48 screening in the conclusion section (Part VIII).

If any of the above questions are marked <u>YES</u>, identify below the specific design function(s), method of evaluation(s) or DBLFPB(s) involved.

PART VII (72.48) - DETERMINE WHETHER THE ACTIVITY INVOLVES ADVERSE EFFECTS (NEI 96-07, Appendix B, Section B.4.2.1)

(If ALL the questions in Part V or Part VI are answered NO, then Part VII is NOT APPLICABLE.)

Answer the following questions to determine if the activity has an *adverse effect* on a design function. Any <u>YES</u> answer means that a 10 CFR 72.48 Evaluation is required; <u>EXCEPT</u> where noted in Part VII.3.

VII.1 Changes to the Facility or Procedures

YES	NO	QUESTION
		Does the activity adversely affect the <i>design function</i> of a plant, cask, or ISFSI SSC credited in safety analyses?

Does the activity adversely affect the method of performing or controlling the *design function* of a plant, cask, or ISFSI SSC credited in the safety analyses?

If any answer is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary):

VII.2 Changes to a Method of Evaluation

(If the activity does not involve a method of evaluation, these questions are I NOT APPLICABLE.)

YES NO QUESTION

Does the activity use a revised or different method of evaluation for performing safety analyses than that described in a cask SAR?

Does the activity use a revised or different method of evaluation for evaluating SSCs credited in safety analyses than that described in a cask SAR?

If any answer is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary):

VII.3 Tests or Experiments

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(If the activity is not a test or experiment, the questions in VII.3.a and VII.3.b are [] NOT APPLICABLE.)

a. Answer these two questions first:

YES	NO	QUESTION
		Is the proposed test or experiment bounded by other tests or experiments that are described in the cask ISFSI licensing basis?
		Are the SSCs affected by the proposed test or experiment isolated from the cask(s) or ISFSI facility?

If the answer to both questions is <u>NO</u>, continue to VII.3.b. If the answer to <u>EITHER</u> question is <u>YES</u>, then briefly describe the basis.

b. Answer these additional questions <u>ONLY</u> for tests or experiments which do not meet the criteria given in VII.3.a above. If the answer to either question in VII.3.a is <u>YES</u>, then these three questions are **NOT APPLICABLE**:

YES	NO	QUESTION
		Does the activity utilize or control an SSC in a manner that is outside the reference bounds of the design bases as described in the ISFSI licensing basis?
		Does the activity utilize or control a plant, cask or ISFSI facility SSC in a manner that is inconsistent with the analyses or descriptions in the ISFSI licensing basis?
		Does the activity place the cask or ISFSI facility in a condition not previously evaluated or that could affect the capability of a plant, cask, or ISFSI SSC to perform its intended functions?

If any answer in VII.3.b is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If the answers are all <u>NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

PART VIII - DOCUMENT THE CONCLUSION OF THE 10 CFR 72.48 SCREENING

Check all that apply:

A 10 CFR 72.48 Evaluation is required or X NOT required. Obtain a screening number and provide the original to Records Management regardless of the conclusion of the 50.59 or 72.48 screening.

A VSC-24 cask Safety Analysis Report change is required or X NOT required. If a VSC-24 cask SAR change is required, then contact the Point Beach Dry Fuel Storage group supervisor.

A Regulatory Commitment (CLB Commitment Database) change is required or 🛛 NOT required. If a Regulatory Commitment Change is required, initiate a commitment change per NP 5.1.7.

A change to the VSC-24 10 CFR 72.212 Site Evaluation Report is required or 🖾 NOT required. If a VSC-24 10 CFR 72.212 Site Evaluation Report change is required, then contact the Point Beach Dry Fuel Storage group supervisor.

Nuclear Power Business Unit TEMPORARY CHANGE REVIEW AND APPROVAL

Note: Refer to NP 1.2.3, Temporary Procedure Changes, for requirements.

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		<u>I - IN</u>	<u>ITIATION</u>				
Doc Number	IT 8A	Ситте	nt Rev 29	Unit PB1	Temp Change No	2002-	0722
Document Title _C	cold Start of Turbine-D	riven Auxiliary	Feed Pump	and Valve	Test (Quarterly)	Unit 1	
Existing Effective	Temporary Changes <u>n</u>	one					
Brief Description	changed Acceptance c	riteria for IAF	-4002 to 3.3-	9.7 sec. SCI	R 2002-0447		
(Identity specific change	s on Form PBF-0020C, Docum	nent Keview and Ap	provat Continua	uon, and includ	e with the package)		
X Initiate PBF-00	26h and include with the	e change.	the terms				
Other documents re	equired to be effective co	\mathbb{N}		y change:	none		
Screening complete	d according to NP 518			ovide documental	HOR SCORDING to NP 3.1.8)		
Safety Evolution T				uzen copy)			
Determine if the et		ILS (I Tex Electuso	a may be processed	or has reviews an	a approvals shall be obtained	before impleme	ntrag)
If any answers are YES	ange constitutes a Chang	or final reviews and	approvals shall	be obtained bef	g the following que	suons.	
Will the proposed	change:					YES	NO
1. Require a	change to, affect or inva	lidate a requirer	nent, commit	ment, evalua	ation or	-	5
descriptio	n in the Current or ISFS	I Licensing Basi	s (as defined	in NP 5.1.8	and NP 5.1.7)?		
2. Cause and revision?	increase in magnitude, si	ignificance or in	ipact such the	at it should b	e processed as a		
3. Delete or could have	modify a prerequisite, in e safety significance or a	itial condition, p affect the proced	precaution, lin ure's margin	mitation or o of safety?	ther steps that		\boxtimes
4. Delete QC related ste	hold points, Independence p(s) that require the perf	nt Verification of formance also be	r Concurrent ing deleted?	Check steps	without the		\boxtimes
5. Change To purposes?	ech Spec or other regula	tory acceptance	criteria other	than for re-l	oaselining		\boxtimes
6. Require a	change to the procedure	Purpose or char	ige the proce	dure classifi	estion?		X
Tutations of Theorem 1 and	•		-8 F.coo 1	$\gamma \gamma$			
Initiated By (print/sig		30K01		12	<u> </u>		1/2002
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•		(Cannot be the I	nitiator or Gro	up Supervisor)	2		
Permanent	II One-time Use	I - PROCEDUR	E OWNER	REVIEW			•
Hold change un	ntil procedure completed	(final review an	d approval, s	till required	within 14 days of i	nitial appro	oval)
QR/MSS Review	NOT Required (Admin/NN	isreety) 🛛 (QR Review Re	quided 🗌 N	ISS Review Require	d (Reference N	(2.a.s)
Procedure Owner (print/sign) <u> </u>	- INI		Zu/	Ľ	hate $10/c$	2/02
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	<u>IV</u>	- FINAL REVI	EW AND A	PPROVAL		. 1	
White the completed	within 14 days of Initial 200	roval) (The Init	ustor. UR and	ADDEGYALAUU	iority shall be indepen	active 12	actrother)
Indicates 50. cross-discipl	59/12.48 applicability assessed inary review required, and if re	i, any necessary screecquired, performed.	enings/evaluation	ons performed, o	determination made as (o whether ad	ditional
MSS Meeting No.	-			X		,	/ /
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Point Beach Nuclear Plant

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TEMPORARY CHANGE AFFECTED MANUAL LOCATION

Page _____ of _____

Procedure Number IT 8A Revision 29	Unit PB1
Title Cold Start of Turbine-Drived Auxiliary Feed Pump and Valve Test (Quarterly) Unit 1	
Temporary Change Number 2002-0722	
I - IMMEDIATELY AFTER INITIAL APPROVAL ON PBF-0026e (Non-Intent change (after Final Approval if change of intent involved)	ges)
This procedure change has been processed as follows: (Manual/Location)	Date Performed
Copy included in work package for field implementation. (WO No)	
Copy filed in Control Room temp change binder (Operations only).	10-22-02
Original change package provided to <u>\C.5</u> to obtain Procedure Owner Review (e.g., Owner review may be coordinated by In-Group OA II, Procedure Writer, Procedure Supervisor, etc.).	10.21.02
	· · · · · · · · · · · · · · · · · · ·
Performed By (print and sign) <u>Carol Schweder I Carol Kherede</u> , Date	10-22.02
II - PROCEDURE OWNER REVIEW ON PBF-0026e (may be performed by OA IL Procedure Writer, etc.)	
This procedure change has been processed as follows: (Manual/Location)	Date Performed
Copy sent to Document Control Distribution Lead for Master File. (Not required for one-time use change)	10-22.02
Copy filed in Group satellite file. (Not required for one-time use changes.)	
Copy filed in Group one-time use file.	
Original Temp Change provided to to obtain Final Approvals (e.g., final approval may be coordinated by In-Group OA II, Procedure Writer, Procedure Supervisor, etc.)	10-21-02
D Control Run Drewer	10-22-02
Performed By (print and sign) <u>Carol Schroeder I Caul Schroeder</u> Date	10-22-62

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Associated F	Josed Activity:	TAP-4002 Ket	Dascine			•
	Reference(s) #:	SCR #2002-03	321, WO #020350			
Prepared by:	Da	wid Dobson me (Print)		Jamie Josson Signature	Date:	15 17.02
Reviewed by	r: <u>Eric</u> Na	D. Schult me (Print)	<u> </u>	<u>LiD. Sur</u> Signature	Date:	10-17-02
'ART I (50. √OTE: The	59/72.48) - DESC BASI " <u>NMC 10 CFR 5</u>	CRIBE THE PR S (Resource Man 0.59 Resource M	OPOSED ACTI uual 5.3.1) <u>Ianual</u> " (Resour	VITY AND SEARCH ce Manual) and <u>NEI</u>	THE PLANT AND	ISFSI LICENSING Guidelines for
.l Des revio	cribe the proposed ew of other portion irements in NP 5.1	activity and the s s of the proposed .8.) Appropriate	 ⇒ cope of the activi l activity may be e e descriptive mate 	ty being covered by th locumented via the apprial may be attached.	e proper responses fo is screening. (The 10 plicability and pre-scre	or 10 CFR 50.59 and CFR 50.59 / 72.48 cening process
The disas and limit	IT-8A open stroke ssembled the valve internal parts replace t switch adjustment	time acceptance and replaced into cement justify tho t, and an increase	criteria for 1AF- rnals (stem,plug, e establishment of in the pressure re	1002 is being revised d cage). The actuator wa f a new opening referen equired to stroke the va	ue to maintenance. We s also bench set and a nce value. Actuator ad lve (RMP 9141).	O #0203508 djusted, the adustments justments included
2 Sear (FCI the 7 licer Com perfo whe	ch the PBNP Curre Rs) with assigned n rechnical Specifica using basis as follow unitment Database, ormance requirement the pertinent info ual 5.3.1 and NEI 9	ent Licensing Bas numbers, the Fire tions, the Technic ws: VSC-24 Safe , and the VSC-24 nts, and methods primation is descri 96-07, App. B, B.	is (CLB) as follo Protection Evalua cal Specifications ity Analysis Repo 10 CFR 72.212 S of evaluation for bed in the above 2)	ws: Final Safety Analy ation Report (FPER), the Bases, and the Techni rt, the VSC-24 Certific Site Evaluation Report. both the plant and for documents (by docume	sis Report (FSAR), FS the CLB (Regulatory) (cal Requirements Mar- cate of Compliance, th Describe the pertinent the cask/ISFSI as appri- ent section number and	SAR Change Requests Commitment Database, nual. Search the ISFSI e CLB (Regulatory) at design function(s), ropriate. Identify i title). (Resource
Man	-4002 is stroke time	ed to satisfy IST	Program surveilla		5 5 7) TS 5 5 7	
Man 1AF- testin • estab	ng of components to plishment of new re	o the ASME OM ference values af	Code 95 Ed./96A	nce requirements (TS A. The ASME OM Cod aintenance.	e, Subsection ISTC 3.	liance requires the 4 allows for the
Man 1AF. testin • estab 3 Does Lice	ng of components to olishment of new re s the proposed activ nse Amendment Re	o the ASME OM ference values af vity involve a cha equest (Resource	Code 95 Ed./96A fter component man nge to any Techn Manual Section 5	ince requirements (TS A. The ASME OM Cod aintenance. ical Specification? Ch i.3.1.2).	anges to Technical Sp	lance requires the 4 allows for the ecifications require a
Man 1AF- testin • estat 3 Does Licen Tech	ng of components to olishment of new re s the proposed activ nse Amendment Re unical Specification	o the ASME OM ference values af vity involve a cha equest (Resource Change :	Code 95 Ed./96A ter component main nge to any Techn Manual Section 5	nce requirements (TS The ASME OM Cod aintenance. ical Specification? Ch i.3.1.2). No	e, Subsection ISTC 3.	liance requires the 4 allows for the ecifications require a

🗌 Yes 🛛 No

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If a storage cask Certificate of Compliance change is required, explain what the change should be and why it is required.

		10 CFR 50.59 SCREENING
PART	II (50.5	9) - DETERMINE IF THE CHANGE INVOLVES A DESIGN FUNCTION (Resource Manual 5.3.2)
Compa	ure the pr	oposed activity to the relevant CLB descriptions, and answer the following questions:
YES	NO	QUESTION
\boxtimes		Does the proposed activity involve Safety Analyses or structures, systems and components (SSCs) credited in the Safety Analyses?
\boxtimes		Does the proposed activity involve SSCs that support SSC(s) credited in the Safety Analyses?
\boxtimes		Does the proposed activity involve SSCs whose failure could initiate a transient (e.g., reactor trip, loss of feedwater, etc.) or accident, <u>OR</u> whose failure could impact SSC(s) credited in the Safety Analyses?
	⊠ *	Does the proposed activity involve CLB-described SSCs or procedural controls that perform functions that are required by, or otherwise necessary to comply with, regulations, license conditions, orders or technical specifications?
	\boxtimes	Does the activity involve a method of evaluation described in the FSAR?
\boxtimes		Is the activity a test or experiment? (i.e., a non-passive activity which gathers data)
J	\boxtimes	Does the activity exceed or potentially affect a <i>design basis limit for a fission product barrier (DBLFPB)</i> ? (NOTE: If THIS questions is answered <u>YES</u> , a 10 CFR 50.59 Evaluation is required.)

If the answers to <u>ALL</u> of these questions are <u>NO</u>, mark Part III as not applicable, document the 10 CFR 50.59 screening in the conclusion section (Part IV), then proceed directly to Part V - 10 CFR 72.48 Pre-screening Questions.

If any of the above questions are marked <u>YES</u>, identify below the specific design function(s), method of evaluation(s) or DBLFPB(s) involved.

The establishment of an open safety function for 1AF-4002 was evaluated under SCR 2002-0321. This Screening established the initial open stroke time acceptance criteria for 1AF-4002. An open safety function was attributed to this value as the result of an NRC Red finding. This Red finding resulted in the classification of the TDAFWP minimum flow path as safety related. 1AF-4002 will open to provide a minimum flow path for the pump if inadequate flow (for pump protection) is detected. As noted in SCR 2002-0321 there is no DBA limiting stroke time requirement for 1AF-04002 to open. The acceptance criteria for this value to open is calculated in accordance with the ASME OM Code, Subsection ISTC 4.2.8.

Based on a new opening reference value of 6.47 seconds, ISTC Subsection 4.2.8 of the OM Code allows a plus or minus 50% variation in stroke time. Therefore, the new allowable opening band is 3.3 to 9.7 seconds. The previous reference value of 3.3 seconds is no longer applicable, the increase in the opening reference value can be attributed into the increase in stroke pressure to move from 36 to 43 psig.

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PADT III /50 50)	DETEDMINE WHETH	ΈΡ ΤΗΕ ΔΟΤΙVΙΤΥ Ι	INVOLVES ADVERS	E EFFECTS	(Resource Manual 5.5.5)
1 WUT 111 (30'32) -					(10000

If ALL the questions in Part II are answered NO, then Part III is INOT APPLICABLE.

wer the following questions to determine if the activity has an *adverse effect* on a design function. Any <u>YES</u> answer means that a JFR 50.59 Evaluation is required; <u>EXCEPT</u> where noted in Part III.3.

III.1 CHANGES TO THE FACILITY OR PROCEDURES

YES NO QUESTION

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Point Beach Nuclear Plant 10 CFR 50.59/72.48 SCREENING (NEW RULE)

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	Page	3

Does the activity adversely affect the *design function* of an SSC credited in safety analyses?

Does the activity adversely affect the method of performing or controlling the *design function* of an SSC credited in the safety analyses?

If any answer is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

1AF-4002 provides a minimum flow path for TDAFWP protection, as noted in SCR 2002-0321 there is no DBA limit associated with valve opening. The new limits are calculated in accordance with the ASME OM Code and utilized to trend actuator/valve degradation.

III.2 CHANGES TO A METHOD OF EVALUATION

(If the activity does not involve a method of evaluation, these questions are \bigotimes NOT APPLICABLE.)

- YES NO QUESTION
- Does the activity use a revised or different method of evaluation for performing safety analyses than that described in the CLB?
- Does the activity use a revised or different method of evaluation for evaluating SSCs credited in safety analyses than that described in the CLB?

If any answer is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary).

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III.3 TESTS OR EXPERIMENTS

If the activity is not a test or experiment, the questions in III.3.a and III.3.b are 🗌 NOT APPLICABLE.

a. Answer these two questions first:

- YES NO QUESTION
- Is the proposed test or experiment bounded by other tests or experiments that are described in the CLB?

Are the SSCs affected by the proposed test or experiment isolated from the facility?

If the answer to <u>BOTH</u> questions in V.3.a is <u>NO</u>, continue to III.3.b. If the answer to <u>EITHER</u> question is <u>YES</u>, then describe the basis.

The stroke time testing and rebaselining of 1AF-4002 are required for TS 5.5.7 "Inservice Testing Program" compliance. As allowed by the ASME OM Code, it is acceptable to rebaseline components after performance altering maintenance. WO #0203508 replaced valve internals, adjusted limit switches and altered valve bench settings.

- b. Answer these additional questions <u>ONLY</u> for tests or experiments which do <u>NOT</u> meet the criteria given in III.3.a above. If the answer to either question in III.3.a is <u>YES</u>, then these three questions are X NOT APPLICABLE.
- YES NO QUESTION Does the activity utilize or control an SSC in a manner that is outside the reference bounds of the design bases as described in the CLB?
- Does the activity utilize or control an SSC in a manner that is inconsistent with the analyses or descriptions in the CLB?

Point Beach Nuclear Plant	
10 CFR 50.59/72.48 SCREENING (NE	WRULE)

Does the activity place the facility in a condition not previously evaluated or that could affect the capability of an SSC to perform its intended functions?

If any answer in III.3.b is <u>YES</u>, a 10 CFR 50.59 Evaluation is required. If the answers in III.3.b are <u>ALL NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

Part IV - 10 CFR 50.59 SCREENING CONCLUSION (Resource Manual 5.3.4).

Check all that apply:

A 10 CFR 50.59 Evaluation is \Box required or \boxtimes NOT required.

A Point Beach FSAR change is required or NOT required. If an FSAR change is required, then initiate an FSAR Change Request (FCR) per NP 5.2.6.

A Regulatory Commitment (CLB Commitment Database) change is \Box required or \boxtimes NOT required. If a Regulatory Commitment Change is required, initiate a commitment change per NP 5.1.7.

A Technical Specification Bases change is required or 🛛 NOT required. If a change to the Technical Specification Bases is required, then initiate a Technical Specification Bases change per NP 5.2.15.

A Technical Requirements Manual change is \Box required or \boxtimes NOT required. If a change to the Technical Requirements Manual is required, then initiate a Technical Requirements Manual change per NP 5.2.15.

------ 10 CFR 72.48 SCREENING

NOTE: <u>NEI 96-07, Appendix B, Guidelines for 10 CFR 72.48 Implementation</u> should be used for guidance to determine the proper responses for 72.48 screenings.

PART V (72.48) - 10 CFR 72.48 INITIAL SCREENING QUESTIONS

Part V determines if a full 10 CFR 72.48 screening is required to be completed (Parts VI and VII) for the proposed activity.

YES NO QUESTION \boxtimes Does the proposed activity involve IN ANY MANNER the dry fuel storage cask(s), the cask transfer/transport equipment, any ISFSI facility SSC(s), or any ISFSI facility monitoring as follows: Multi-Assembly Sealed Basket (MSB), MSB Transfer Cask (MTC), MTC Lifting Yoke, Ventilated Concrete Cask (VCC), Ventilated Storage Cask (VSC), VSC Transporter (VCST), ISFSI Storage Pad Facility, ISFSI Storage Pad Data/Communication Links, or PPCS/ISFSI Continuous Temperature Monitoring System? \boxtimes Does the proposed activity involve IN ANY MANNER SSC(s) installed in the plant specifically added to support cask loading/unloading activities, as follows: Cask Dewatering System (CDW), Cask Reflood System (CRF), or Hydrogen Monitoring System? Π \boxtimes Does the proposed activity involve IN ANY MANNER SSC(s) needed for plant operation which are also used to support cask loading/unloading activities, as follows: Spent Fuel Pool (SFP), SFP Cooling and Filtration (SF), Primary Auxiliary Building Ventilation System (VNPAB), Drumming Area Ventilation System (VNDRM), RE-105 (SFP Low Range Monitor), RE-135 (SFP High Range Monitor), RE-221 (Drumming Area Vent Gas Monitor), RE-325 (Drumming Area Exhaust Low-Range Gas Monitor), PAB Crane, SFP Platform Bridge, Truck Access Area, or Decon Area? П \boxtimes Does the proposed activity involve a change to Point Beach CLB design criteria for external events such as earthquakes, tornadoes, high winds, flooding, etc.? \Box \boxtimes Does the activity involve plant heavy load requirements or procedures for areas of the plant used to support cask loading/unloading activities? PBF-1515c

Does the activity involve any potential for fire or explosion where casks are loaded, unloaded, transported or stored?

If <u>ANY</u> of the Part V questions are answered <u>YES</u>, then a full 10 CFR 72.48 screening is required and answers to the questions in Part VI and Part VII are to be provided. If <u>ALL</u> the questions in Part V are answered <u>NO</u>, then check Parts VI and VII as not applicable. Complete Part VIII to document the conclusion that no 10 CFR 72.48 evaluation is required.

PART VI (72.48) - DETERMINE IF THE CHANGE INVOLVES A ISFSI LICENSING BASIS DESIGN FUNCTION

(If ALL the questions in Part V are NO, then Part VI is NOT APPLICABLE.)

Compare the proposed activity to the relevant portions of the ISFSI licensing basis and answer the following questions:

YES	NO	QUESTION
		Does the proposed activity involve cask/ISFSI Safety Analyses or plant/cask/ISFSI structures, systems and components (SSCs) credited in the Safety Analyses?
		Does the proposed activity involve plant, cask or ISFSI SSCs that support SSC(s) credited in the Safety Analyses?
		Does the proposed activity involve plant, cask or ISFSI SSCs whose function is relied upon for prevention of a radioactive release, <u>OR</u> whose failure could impact SSC(s) credited in the Safety Analyses?
	ŗ	Does the proposed activity involve cask/ISFSI described SSCs or procedural controls that perform functions that are required by, or otherwise necessary to comply with, regulations, license conditions, CoC conditions, or orders?
		Does the activity involve a method of evaluation described in the ISFSI licensing basis?
		Is the activity a test or experiment? (i.e., a non-passive activity which gathers data)
ב		Does the activity exceed or potentially affect a cask <i>design basis limit for a fission product barrier (DBLFPB)</i> ? (NOTE: If <u>THIS</u> questions is answered <u>YES</u> , a 10 CFR 72.48 Evaluation is required.)

If the answers to <u>ALL</u> of these questions are <u>NO</u>, mark Parts VII as not applicable, and document the 10 CFR 72.48 screening in the conclusion section (Part VIII).

If any of the above questions are marked <u>YES</u>, identify below the specific design function(s), method of evaluation(s) or DBLFPB(s) involved.

PART VII (72.48) - DETERMINE WHETHER THE ACTIVITY INVOLVES ADVERSE EFFECTS (NEI 96-07, Appendix B, Section B.4.2.1)

(If <u>ALL</u> the questions in Part V or Part VI are answered <u>NO</u>, then Part VII is NOT APPLICABLE.)

-Answer the following questions to determine if the activity has an *adverse effect* on a design function. Any <u>YES</u> answer means that a 10 CFR 72.48 Evaluation is required; <u>EXCEPT</u> where noted in Part VII.3.

VII.1 Changes to the Facility or Procedures

- YES NO QUESTION
 - Does the activity adversely affect the *design function* of a plant, cask, or ISFSI SSC credited in safety analyses?
 - Does the activity adversely affect the method of performing or controlling the *design function* of a plant, cask, or ISFSI SSC credited in the safety analyses?

If any answer is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary):

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	① D	INITIATION ment Rev 29 Unit PB1: Temp Change No. 2002-0722	and the second
		Point Beach Nuclear Plant 10 CFR 50.59/72.48 SCREENING (NEW RULE)	SCR <u>2002 - 0447</u> Verify SCR number on all pages Page 6
•			
Chang	es to a M	fethod of Evaluation	
(If the	activity	does not involve a method of evaluation, these questions are 🗌 NOT APPL	ICABLE.)
YES	NO	QUESTION Does the activity use a revised or different method of evaluation for perfor	ming safety analyses than that

Does the activity use a revised or different method of evaluation for evaluating SSCs credited in safety analyses than that described in a cask SAR?

If any answer is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If both answers are <u>NO</u>, describe the basis for the conclusion (attach additional discussion, as necessary):

VII.3 Tests or Experiments

VII.2

(If the activity is not a test or experiment_the questions in VII.3.a and VII.3.b are [] NOT APPLICABLE.)

a. Answer these two questions first:

described in a cask SAR?

- YES NO OUESTION
 - Is the proposed test or experiment bounded by other tests or experiments that are described in the cask ISFSI licensing basis?
 - Are the SSCs affected by the proposed test or experiment isolated from the cask(s) or ISFSI facility?

If the answer to both questions is <u>NO</u>, continue to VII.3.b. If the answer to <u>EITHER</u> question is <u>YES</u>, then briefly describe the basis.

b. Answer these additional questions <u>ONLY</u> for tests or experiments which do not meet the criteria given in VII.3.a above. If the answer to either question in VII.3.a is <u>YES</u>, then these three questions are I NOT APPLICABLE:

YES	NO	QUESTION .
		Does the activity utilize or control an SSC in a manner that is outside the reference bounds of the design bases as described in the ISFSI licensing basis?
		Does the activity utilize or control a plant, cask or ISFSI facility SSC in a manner that is inconsistent with the analyses or descriptions in the ISFSI licensing basis?
		Does the activity place the cask or ISFSI facility in a condition not previously evaluated or that could affect the capability of a plant, cask, or ISFSI SSC to perform its intended functions?

If any answer in VII.3.b is <u>YES</u>, a 10 CFR 72.48 Evaluation is required. If the answers are all <u>NO</u>, describe the basis for the conclusion (attach additional discussion as necessary):

RT VIII - DOCUMENT THE CONCLUSION OF THE 10 CFR 72.48 SCREENING

Check all that apply:

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A 10 CFR 72.48 Evaluation is required or X NOT required. Obtain a screening number and provide the original to Records Management regardless of the conclusion of the 50.59 or 72.48 screening.

A VSC-24 cask Safety Analysis Report change is i required or NOT required. If a VSC-24 cask SAR change is required, then contact the Point Beach Dry Fuel Storage group supervisor.

A Regulatory Commitment (CLB Commitment Database) change is \Box required or \boxtimes NOT required. If a Regulatory Commitment Change is required, initiate a commitment change per NP 5.1.7.

A change to the VSC-24 10 CFR 72.212 Site Evaluation Report is required or 🛛 NOT required. If a VSC-24 10 CFR 72.212 Site Evaluation Report change is required, then contact the Point Beach Dry Fuel Storage group supervisor.

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IT 08A

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

DOCUMENT TYPE:TechnicalCLASSIFICATION:Safety RelatedREVISION:29EFFECTIVE DATE:August 23, 2002REVIEWER:Qualified ReviewerAPPROVAL AUTHORITY:Department ManagerPROCEDURE OWNER (title):Group HeadOWNER GROUP:Operations

Signati	ire Date	Time	
List pages used for Partial Performance	Controlling Work Document Numbers		
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IT 08A SAFETY RELATED Revision 29 August 23, 2002

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

1.0 <u>PURPOSE</u>

- 1.1 The purpose of this test is to perform a cold fast start of the Turbine-Driven Auxiliary Feedwater Pump. This procedure satisfies the Biennial comprehensive pump test requirements of the ASME OM Code.
- 1.2 The performance of this procedure partially satisfies Technical Specification 5.5.7 by conducting the following PBNP Inservice Testing Program tests in accordance with the ASME OM Code 95 Ed./96A. Successful performance of this procedure will also satisfy Technical Specifications and environmental qualification requirements. (B-3)
 - 1.2.1 Quarterly Comprehensive functional test of 1P-29, Aux Feedwater Turbine-Driven Pump, to verify the developed head of each required AFW pump at the flow test point is greater than or equal to the developed head as required by SR 3.7.5.2 and the ASME OM Code:
 - 1.2.2 Quarterly full stroke exercise, stroke time shut, and position indication test of the following as required by the ASME OM Code:
 - 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV
 - 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV
 - 1.2.3 Quarterly full stroke exercise, stroke time open and shut, position indication, and check valve open test of the following as required by the ASME OM Code and for environmental qualification requirements:
 - 1MS-2019, B SG STM Supply to 1P-29 AFP
 - 1MS-2020, A SG STM Supply to 1P-29 AFP
 - 1.2.4 A Shut test of 1MS-2082, Overspeed Trip Valve. This is a skid mounted device as allowed by the Code, whereas satisfactory testing of 1P-29 also satisfies the required testing for this valve.
 - 1.2.5 Quarterly full stroke exercise, stroke time open, fail-safe open, and position indication test of 1MS-2090, 1P-29 AFP Bearing Cooling Inlet, as required by the ASME OM Code.
 - 1.2.6 Quarterly partial open exercise stroke of SW-135A, 1P-29 AFP Inlet Check, valve as required by the ASME OM Code.
 - 1.2.7 Quarterly full stroke exercise, stroke time open and shut, and position indication test of 1AF-4002, 1P-29 AFP Mini-Recirc Control Valve, as required by the ASME OM Code.

IT 08A SAFETY RELATED Revision 29 August 23, 2002

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

1.2.8 Quarterly full stroke open exercise test for the following check valves, as required by the ASME OM Code:

- 1AF-100, 1HX-1A SG Auxiliary Feedwater First Off Check Valve.
- 1AF-101, 1HX-1B SG Auxiliary Feedwater First Off Check Valve.
- 1AF-106, 1P-29 AFP Discharge to 1HX-1A SG Check Valve.
- 1AF-107, 1P-29 AFP Discharge to 1HX-1B SG Check Valve.
- 1AF-108, 1P-29 AFP Discharge Check Valve.
- 1AF-114, 1P-29 Minimum Flow Check Valve
- 1.2.9 A bi-directional exercise and gross leakage check of the TDAFP Mini-Recirc Valve (1AF-4002) instrument air accumulator, 1T-212 Seismic Boundary 2nd Check Valve as required by the ASME OM Code.
 - 1AF-173, 1P-29 AFP Mini-Recirc IA 2nd off check (nearest accumulator)
- 1.3 To perform a quarterly flush of the turbine bearing coolers. Reference response to NRC Generic Letter 89-013, SE 2001-0059, and commitment change evaluation (CCE) 2001-010.
- 1.4 This procedure, when performed in conjunction with 1-PT-AF-2, Turbine Driven Auxiliary Feedwater System Main Steam Pressure Test - Outside Containment, Unit 1 fulfils the 40-month functional and/or the 10-year N-498-1 hydrostatic pressure test requirements for Class 2 Auxiliary Feedwater Pump steam supply piping and Class 3 Turbine-Driven Auxiliary Feedwater Pump 1P-29 piping and components.
- 1.5 SR-3.7.5.4, Successful performance of this test will ensure that 1P-29, Steam Driven AFW Pump, will start when given an actuation signal.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

Two stopwatches

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2.0 <u>PREREQUISITES</u>

2.1.1

- 2.1 Assemble the following portable test instruments and log their ID numbers for the applicable portions of this procedure.
 - Control Room
 ID No.

 Local
 Cal due date:

 ID No.
 ID No.

 Cal due date:
 ID No.
- 2.2 <u>IF</u> is desired to consider the equipment available per maintenance rule, <u>THEN</u> two level 4 dedicated operators will be required, one for the control room and the second locally per OM 3.26, Use Of Dedicated Operators, during the performance of this procedure.

3.0 PRECAUTIONS AND LIMITATIONS

- 3.1 If there is any problem in performing this test, immediately notify the Duty Shift Superintendent. Operability of this equipment is a Technical Specification requirement.
- 3.2 Injection of Auxiliary feed to steam generators at power will cause an increase in Reactor Power. RTO calculation does <u>NOT</u> account for Auxiliary feed flow. RTO is unreliable. Use of DTP and Nuclear Instruments recommended. (Reference 0-TS-RE-001 and AOP-21)
- 3.3 Do <u>NOT</u> perform more than one portion of this test at a time.
- 3.4 For the purposes of valve stroke testing, the stroke time is the time it takes the valve to go from full open to full shut or full shut to full open, by the control board indication for 1MS-2019, B SG STM Supply to 1P-29 AFP, and 1MS-2020, A SG STM Supply to 1P-29 AFP, and local indicating lights and control for 1MS-2090, 1P-29 AFP Bearing Cooling Inlet. The stopwatch should be started at the moment the control switch or trip lever is actuated. (B-2)

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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- 3.5 Low suction pressure condition causes a common suction pressure alarm (C01 A 4-9, Aux Feed Pump Suction Pressure Low), and a low suction pressure trip of 1MS-2082, 1P-29 AFP Overspeed Trip Valve, with an attendant alarm (1C03 1D 3-8, 1P-29 AFP Low Suction Pressure Trip).
- 3.6 If at any time pump suction pressure is less than the NPSH required, (6.5 psig) this test must be discontinued until problem is corrected.
- 3.7 If the as-found position of 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV or 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, do <u>NOT</u> agree with the wall plaque position (plus or minus 1%) the test may continue; however, a action request shall be submitted. It is acceptable for the valves to be found in positions specified by other approved procedures performed in the same LCO window.
- 3.8 To prevent P-29 AFW Pump Damage, Monitor and Maintain AFW discharge <u>AND</u> / <u>OR</u> recirc flow greater than 75 GPM <u>OR</u> STOP 1P-29.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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INITIALS

NOTE: This procedure can be used in its entirety or sections/steps may be marked as <u>NOT</u> applicable (N/A) by the DSS/DOS.

4.0 INITIAL CONDITIONS

4.1 This test is being done to satisfy:

The normally scheduled callup. Task sheet No.

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 <u>NOT</u> applicable for the performance of the PMT. The use of N/A is <u>NOT</u> 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. (B-1)

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

- NOTE: RTO calculation is unreliable for power readings during the test because it does <u>NOT</u> account for Auxiliary Feed Flow. Use DTP and Nuclear Instrumentation.
- NOTE: Operating 1P-29 at 400 GPM feed rate to the S/G's will increase reactor power by approximately 0.8%.
- 4.2 <u>IF</u> load reduction greater than or equal to 2% is required, <u>THEN</u> ensure load reduction is planned with WEPOG.
- 4.3 Reactor Power reduced to 2% below limiting reactor power as directed by DSS.
- 4.4 Auxiliary feed system is lined up for critical operation per CL 13E, Part 1, Auxiliary Feedwater Valve Lineup Turbine-Driven Unit 1.
- 4.5 Chemistry notified about auxiliary feed water injection.

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

		INITIALS
4.6	Steam generator pressures are greater than or equal to 780 psig.	
4.7	Steam generators are available to receive water.	
4.8	Reactor power is being monitored using PPCS point DTP, if available, and Nuclear Instrumentation. (Ref0-TS-RE-001)	<u> </u>
4.9	1P-29, Aux Feedwater Turbine-Driven Pump, has <u>NOT</u> been operated within the previous four hours to be considered a valid Cold Start Test (e.g. MS-2019/2020 have not had steam flow through them within the previous four hours).	
4.10	P-38A, Aux Feedwater Motor-Driven Pump with its associated flow path is operable.	
4.11	P-38B, Aux Feedwater Motor-Driven Pump with its associated flow path is operable.	
4.12	PBF-3070, Contaminated Steam Release, is available for recording data. (Step 5.22)	,
4.13	The IST Coordinator is available for PMT data review if 1P-29 has been replaced, disassembled, realigned or the coupling has been disassembled. This review will establish new reference values and is performed prior to declaring the pump operable. (Mark N/A for oil changes and other minor maintenance which does <u>NOT</u> affect pump vibration or hydraulic performance).	
4.14	The IST Coordinator is available for power operated valve reference value data review prior to declaring the valve operable. This step is not applicable if the test is not being performed for power-operated valve PMT.	
4.15	Permission to Perform Test	
	The conditions required by this test are consistent with required plant conditions including equipment operability.	
	DSS TIME DATE	

UNIT 1

PUMP AND VALVE TEST (QUARTERLY)

COLD START OF TURBINE-DRIVEN AUXILIARY FEED

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INITIALS 5.0 PROCEDURE Adjust 1LC-2125, SC-1A Condenser Hotwell Level Controller, to 5.1 maintain hotwell level at the lower end of the normal operating band. Ensure pump bearing oil level between red lines on glass. 5.2 Inboard Outboard Ensure Turbine bearing oil level is observable in Opto-matic oilers. 5.3 Inboard Outboard Ensure that the oil level is visible in the sight glass of the governor right 5.4 angle drive gear box. Drive Gear Box. Ensure that the oil level for the Turbine-governor is between the line and 5.5 the top of the sightglass. Record the as-found position of 1AF-4000, 1P-29 AFP Disch SG B Inlet 5.6 MOV, AND 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV. 5.6.1 1AF-4000 1AF-4001 1C-03 % % Local % % Wall Plaque % % Compare the local <u>AND</u> wall plaque positions to be within $\pm 1\%$. 5.6.2 Check if OK 1AF-4000 Check if OK 1AF-4001 IF positions are NOT the same (± 1%), 5.6.3 THEN notify the DSS. (Ref P&L 3.7.)

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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			INITIALS
5.7	Perform	one of the following (N/A the step not used)	
	5.7.1	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 G, if required.	
	5.7.2	IF sufficient qualified operators are not available on shift to assign as dedicated operators, THEN consider the equipment unavailable per maintenance. Rule and assign available qualified operators to perform the restoration steps of Attachment G, if required.	
5.8	1P-29, A portions Feedwat	Aux Feedwater Turbine-Driven Pump, will be inoperable during of this test. Enter LCO Action Condition 3.7.5.B for 1P-29, Aux er Turbine-Driven Pump.	
	TIME_	DATE	
5.9	Defeat th SGBD is	ne blowdown isolation interlock for Unit 1 by placing 1P-29 AFP solation defeat to on, if required.	

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

- NOTE: Timing for 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, should be performed by a local operator receiving a countdown from the Control Room. The stopwatch should be started at the Count of "Zero" and stopped when the valve motor stops.
- 5.10 Perform <u>Quarterly Full Stroke Exercise</u>, Stroke Time Shut, and Position <u>Indication Test of 1AF-4000</u>, 1P-29 AFP Disch SG B Inlet MOV as follows.
 - 5.10.1 Shut 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV.
 - 5.10.2 Open <u>AND</u> time 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV <u>THEN</u> record time to OPEN on Attachment A. (B-4) (For Information only)
 - 5.10.3 Record the 1C03 position of 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV on Attachment A.
 - 5.10.4 Record Local position of 1AF-4000, 1P-29 Aux Feed Pump Discharge 1HX-1B SG Inlet Isolation Motor Operator Valve, on Attachment A.
 - 5.10.5 Shut <u>AND</u> time 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV <u>THEN</u> record time to SHUT on Attachment A.
 - 5.10.6 Record the 1C03 position of 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV on Attachment A.
 - 5.10.7 Record Local position of 1AF-4000, 1P-29 Aux Feed Pump Discharge 1HX-1B SG Inlet Isolation Motor Operator Valve, on Attachment A.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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- NOTE: Timing for 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, should be performed by a local operator receiving a countdown from the Control Room. The stopwatch should be started at the Count of "Zero" and stopped when the valve motor stops.
- 5.11 <u>Perform the Quarterly Full Stroke Exercise, Stroke Time Shut, and</u> <u>Position Indication Test of 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV</u> <u>as follows.</u>
 - 5.11.1 Shut 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV.
 - 5.11.2 Open <u>AND</u> time 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV <u>THEN</u> record time to OPEN on Attachment A. (For Information only)
 - 5.11.3 Record the 1C03 position of 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV on Attachment A.
 - 5.11.4 Record Local position of 1AF-4001, 1P-29 Aux Feed Pump Discharge 1HX-1A SG Inlet Isolation Motor Operator Valve, on Attachment A.
 - 5.11.5 Shut <u>AND</u> time 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV <u>THEN</u> record time to SHUT on Attachment A.
 - 5.11.6 Record the 1C03 position of 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV on Attachment A.
 - 5.11.7 Record Local position of 1AF-4001, 1P-29 Aux Feed Pump Discharge 1HX-1A SG Inlet Isolation Motor Operator Valve, on Attachment A.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

- 5.12 <u>Perform the Quarterly Full Stroke Exercise, Stroke Time Open, Fail-Safe</u> <u>Open, and Position Indication Test of 1MS-2090, 1P-29 AFP Bearing</u> <u>Cooling Inlet, as follows:</u>
 - 5.12.1 On panel 1C-144, 1MS-2090 AFP Brg Cooling Inlet Control Panel, check the AMBER test switch power available light is LIT.
 - 5.12.2 Observe the local panel indicating lights <u>AND</u> time OPEN 1MS-2090, 1P-29 AFP Bearing Cooling Inlet, by placing the test switch in the TEST position. (B-2)
 - 5.12.3 Record time to OPEN on Attachment A.
 - 5.12.4 Locally verify OPEN lamp indication <u>AND</u> record on Attachment A.
 - 5.12.5 Observe the local panel indicating lights <u>AND</u> time SHUT 1MS-2090, 1P-29 AFP Bearing Cooling Inlet, by placing the test switch in the NORMAL position. (For Information only) (B-2)
 - 5.12.6 Record time to SHUT on Attachment A.
 - 5.12.7 Locally verify SHUT lamp indication <u>AND</u> record on Attachment A.
 - 5.12.8 Red lock 1MS-2090, 1P-29 AFP Bearing Cooling Inlet, test switch in the NORMAL position.

			INITIALS
5.13	Shut 1MS	S-2082, 1P-29 AFP Overspeed Trip, Valve.	
	NOTE:	Notify the DSS if 1MS-2082, 1P-29 AFP Overspeed Trip, does <u>NOT</u> trip.	
	5.13.1	Make an entry into the SOMs log stating that 1P-29 is unavailable due to cycling 1MS-2082, 1P-29 AFP Overspeed Trip valve.	
	NOTE:	C01A 2-8, Auxiliary Feed Water System Disabled, will alarm during the performance of the next step.	
	5.13.2	Trip shut 1MS-2082, 1P-29 AFP Overspeed Trip, by depressing the trip button on turbine shaft housing. Note status on Attachment A.	
	5.13.3	Check that the amber trip light illuminates on 1C-03 <u>AND</u> note status on Attachment A.	
5.14	<u>Closure E</u> Accumula	xercise of TDAFP Mini-Recirc Valve Instrument Air ator 1T-212 Seismic Boundary Check Valve 1AF-173	
	5.14.1	Close IA-352, 1AF-4002 AFP Mini-Recirc Control Valve Operating Air Inlet.	
	5.14.2	Uncap <u>AND</u> slowly Open 1AF-176, 1P-29 AFP Mini Recirc 1AF-173 Test Connection.	
	5.14.3	After initial depressurization, check closure of 1AF-173 by checking for the absence of air leakage approximately 6 inches above the outlet of 1AF-176 by hand.	
	5.14.4	Record 1AF-173 closure test results on Attachment A.	
	5.14.5	Shut and Cap 1AF-176, 1P-29 AFP Mini Recirc 1AF-173 Test Connection.	
	5.14.6	Open IA-352, 1AF-4002 Mini-Recirc Control Valve Operating Air Inlet.	

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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NOT	E: The a accur valve	ability for 1AF-4002 to exercise to the open position with mulator 1T-212 isolated satisfies the stroke open test of check e 1AF-173.	
NOT	E: Use I	ocal indication for timing 1AF-4002, 1P-29 AFP Mini-Recirc CV.	
5.15	Perform and Posit Control V	the Quarterly Full Stroke Exercise, Stroke Time Open and Shut, tion Indication Test of 1AF-4002, 1P-29 AFP Mini-Recirc Valve, as follows:	
	5.15.1	Unlock <u>AND</u> shut 1AF-125, 1P-29 AFP Mini Recirc 1AF-4002-S Outlet Isolation.	
	5.15.2	Shut 1AF-175, 1P-29 AFP Mini Recirc IA 1T-212 Isolation.	
	5.15.3	Open <u>AND</u> time 1AF-4002, 1P-29 AFP Mini-Recirc CV, by unlocking <u>AND</u> opening 1AF-126, 1P-29 AFP Mini Recirc 1AF-4002-S Bypass Isolation.	
	5.15.4	Record time to OPEN on Attachment A.	
	5.15.5	Check the local position indicator for OPEN indication <u>AND</u> record on Attachment A.	
•	5.15.6	Shut 1AF-126, 1P-29 AFP Mini Recirc 1AF-4002-S Bypass Isolation.	
	5.15.7	Shut <u>AND</u> time 1AF-4002, 1P-29 AFP Mini-Recirc CV, by opening 1AF-125, 1P-29 AFP Mini Recirc 1AF-4002-S Outlet Isolation.	
	5.15.8	Record time to SHUT on Attachment A.	. <u> </u>
	5.15.9	Check the local position indicator for SHUT indication <u>AND</u> record on Attachment A.	
	5.15.10	Open 1AF-175, 1P-29 AFP Mini Recirc IA 1T-212 Isolation.	

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

			INITIALS			
5.16	Perform to Overspeed	Perform the Following to Reset and Open 1MS-2082, 1P-29 AFP Overspeed Trip Valve.				
	5.16.1	6.1 Align the flat side of the washer under the trip button with the trip arm. (Local)				
	5.16.2	Move the plug/stem latching mechanism into line by moving the trip rod to the extreme SOUTH position. (Local)				
	5.16.3	Verify the overspeed trip mechanism is LATCHED. (Local)				
	5.16.4	Close 1MS-2082, 1P-29 AFP Overspeed Trip, valve Reset Operator. (C03)				
		a. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Reset Operator, green light ON.				
		 b. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Reset Operator, red light OFF. 				
	5.16.5	Open 1MS-2082, 1P-29 AFP Overspeed Trip Valve Reset Operator. (C03)				
		a. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Reset Operator, red light ON.				
		b. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Reset Operator, green light OFF.				
		c. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Position, amber light OFF.	·			
		d. Verify 1MS-2082, 1P-29 AFP Overspeed Trip Valve Position, red light ON.				
	5.16.6	Verify the following annunciators are CLEAR:				
		• 1C03 1D 3-8, 1P-29 AFP Low Suction Pressure Trip.				
		• C01A 2-8, Unit 1 Auxiliary Feed Water System Disabled.				

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

INITIALS

5.16.7	Make an entry into the SOMs log stating that 1P-29 is now
	available because cycling of 1MS-2082, 1P-29 AFP Overspeed
	Trip valve is completed.

- 5.17 Align 1PI-4013A, 1P-29 AFP Suction Pressure Indicator, gauge as follows:
 - 5.17.1 Shut pressure gauge vent.
 - 5.17.2 Valve in pump suction pressure gauge, 1PI-4013A, 1P-29 AFP Suction Pressure Indicator.
 - 5.17.3 Record suction pressure on Attachment B.
- 5.18 Record 1PI-4458, 1P-29 AFP Cooling Water Supply Pressure Indicator, on Attachment B. If pressure is a vacuum, then multiply vacuum reading by 0.491 and change sign to negative, (i.e. 3" Hg x 0.491=-1.473 psig)
- 5.19 Record steam generator pressure as indicated by 1PI-468, SG A Pressure AND 1PI-478, SG B Pressure on Attachment B.
- 5.20 Open 1AF-4002, 1P-29 AFP Mini-Recirc CV, as follows:
 - 5.20.1 Shut 1AF-125, 1P-29 AFP Mini Recirc AF-4002-S Outlet Isolation.
 - 5.20.2 Open 1AF-126, 1P-29 AFP Mini Recirc AF-4002-S Bypass Isolation.

CAUTION

If at any time equipment operation appears abnormal stop pump by shutting steam supply valve.

- 5.21 Ensure 1P-29, Aux Feedwater Turbine-Driven Pump, has <u>NOT</u> been operated within the previous four hours to be considered a valid Cold Start Test.
- 5.22 Concurrently Record appropriate data on PBF-3070 during the run time of 1P-29, Aux Feedwater Turbine-Driven Pump, as required.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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		NOTE	E: RCS I	Cemperature should be monitored during this test. (B-5)	
	ntain AFW discharge M <u>OR</u> Stop the pump.	5.23	Start 1P-2 following:	9, Aux Feedwater Turbine-Driven Pump, by performing the	
		{	5.23.1	Open <u>AND</u> time 1MS-2019, B SG STM Supply to 1P-29 AFP.	
		{	5.23.2	Record time to OPEN on Attachment C.	
μ{ }			5.23.3	Check the rising stem indicator for OPEN indication <u>AND</u> record on Attachment C.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N and mai 175 GPJ	}	5.23.4	Open <u>AND</u> time 1MS-2020, 1HX-1A SG Header 1P-29 AFP Steam Supply MOV. Record Clock Time	
202	UTIO nitor s r than	{	5.23.5	Record time to OPEN on Attachment C.	
	<u>CA</u> 2-29 Mo w greate	{	5.23.6	Check the rising stem indicator for OPEN indication <u>AND</u> record on Attachment C.	
	fo prevent damage to I and or recirc flow	NOTI	E: Due to take a	o steam quality during cold start, governor oscillations could is long as 1 to 2 minutes to stabilize.	
		5.24	Observe p	nump comes up to speed <u>AND</u> governor takes control.	_
		NOTI	E: 1P-29 trip is	, Aux Feedwater Turbine-Driven Pump, suction pressure set at 6.5 psig with a 20 second time delay.	
		5.25	Check 1P- greater tha Indicator.	-29, Aux Feedwater Turbine-Driven Pump, suction pressure is an 6.5 psig on 1PI-4013A, 1P-29 AFP Suction Pressure	. <u> </u>
		NOT	E: 1AF-4 the in	1002, 1P-29 AFP Mini-Recirc CV, should remain open when strument air valve is returned to normal.	
		5.26	Open 1AI	-125, 1P-29 AFP Mini Recirc AF-4002-S Outlet Isolation.	<u> </u>
		5.27	Shut 1AF	-126, 1P-29 AFP Mini Recirc AF-4002-S Bypass Isolation.	
		5.28	Verify 1A	F-4002, 1P-29 AFP Mini-Recirc CV, OPEN.	

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

INITIALS

NOT	E: The Min	following step satisfies full stroke exercising of 1AF-114, 1P-29 imum Flow Check Valve.			
5.29	Check n 120-130 Indicato	nini-recirculation flow greater than 100 gpm (expected range)) on 1FIT-4049, 1P-29 Aux Feedwater Pump Mini Recirc Flow or Transmitter <u>AND</u> record on Attachment B.			
5.30	Red lock the norm	Red lock 1AF-125, 1P-29 AFP Mini Recirc AF-4002-S Outlet Isolation, in the normally OPEN position.			
5.31	Red lock	k 1AF-126, 1P-29 AFP Mini Recirc AF-4002-S Bypass Isolation, ormally SHUT position.			
5.32	Record	1PI-2076, 1P-29 AFP Steam Pressure Indicator, on Attachment B.			
5.33	Check the Attachm	he packing glands for excessive leakage <u>AND</u> record on tent B.			
5.34	Check th leaks and Attachm	ne pump <u>AND</u> turbine for unusual noise, odors, overheating, or d verify service water flow to bearings <u>AND</u> record on tent B.			
5.35	Verify tl 1P-29 A	ne stroke of SW-135A, 1P-29 AFP Inlet Check, and 1MS-2090, FP Bearing Cooling Inlet.			
	5.35.1	Shut FP-306, 1P-29 AFP Emer Bearing Cooling Header Isolation.	<u> </u>		
	5.35.2	Record 1PI-4458, 1P-29 AFP Cooling Water Supply Pressure Indicator, on Attachment B.			
	5.35.3	Open <u>AND</u> lock FP-306, 1P-29 AFP Emer Bearing Cooling Header Isolation.			
5.36	Record b stroke te	bearing cooling supply ΔP on Attachment B to verify the partial st of SW-135A, 1P-29 AFP Inlet Check, check valve. 			
	Step 5.3	5.2 Step 5.18	<u> </u>		

5.37 Using the Micro-logger and Figure 1, obtain vibration data as shown on Attachment B. (readings are <u>NOT</u> required to be transferred to the attachment)

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. COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

INITIALS

CAUTION

Injection of Auxiliary feed to steam generators at power will cause an increase in Reactor Power. RTO calculation does <u>NOT</u> account for Auxiliary feed flow. RTO is unreliable. Use of DTP and Nuclear Instruments recommended. (Reference 0-TS-RE-001 and AOP-21)

- 5.38 Adjust flow with 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, to approximately 150 gpm or as required to close 1AF-4002, 1P-29 AFP Mini-Recirc CV.
- 5.39 Check 1AF-4002, 1P-29 AFP Mini-Recirc CV, SHUT.
 - 5.39.1 Local position indication (%) _____.
 - 5.39.2 Control board indication 1C-03.
- 5.40 <u>IF</u> the 40-month functional and/or 10-year N-498-1 Hydrostatic Pressure Test is being performed concurrently with this procedure, <u>THEN</u> notify NDE that inspection may commence shortly (cue to report to AFP room)

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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- NOTE: Steam Generator level deviation alarms are possible when adjusting Auxiliary Feedwater Flow.
- NOTE: The following provides a full stroke of 1AF-101, 1HX-1B SG Auxiliary Feedwater First Off Check, 1AF-107, 1P-29 AFP Discharge to 1HX-1B SG Check, 1AF-108, 1P-29 AFP Discharge Check, and 1AF-111, 1P-29 AFP Suction Check.
- 5.41 Adjust 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, for a total auxiliary feed flow rate of 400 gpm as indicated on 1DPIS-4002 <u>AND</u> record the following:

Time 400 gpm is achieved	CLOCK	hrs
Turbine steam pressure	1PI-2076	nsio
1AF-4000 position	1C-03	P516
1AF-4000 position	Local	
1B steam generator pressure	1PI-478	nsig
Auxiliary feed flow rate to 1B SG	1FI-4037	P516
Auxiliary feed flow rate to 1A SG	1FI-4036	gpm
1P-29 auxiliary feed flow rate	1DPIS-4002	5pm
1P-29 recirculation flow rate	1FIT-4049	<u>Bpm</u>
1P-29 disch. pressure	1PI-4004	Bpin

- 5.42 After a two minute run time, record the data on Attachment B <u>AND</u> the IST required vibration points listed on Attachment B.
- 5.43 <u>IF</u> the 40-month functional and/or 10-year N-498-1 hydrostatic pressure test is being performed concurrently with this procedure, <u>THEN</u> after feeding Unit 1 B S/G for greater than 10 minutes with pump discharge pressure greater than 1173 psig, instruct NDE to perform VT-2 on the piping and components downstream of AF-4000 and record in 1-PT-AF-2.
- 5.44 Compare recorded bearing temperatures in Attachment B to limits listed on Attachment E.

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

	NOT	E: Annu alarn unles	nciator C01A 2-8, Unit 1 Aux Feed System Disabled will a and clear during the performance of Steps 5.45 through 5.48 s already in alarm.	
۲ آ	5.45	Shut <u>AN</u>	time 1MS-2019, B SG STM Supply to 1P-29 AFP.	
arge tmp.	}	5.45.1	Record time to SHUT on Attachment C.	
W disch		5.45.2	Check the rising stem indicator for SHUT indication <u>AND</u> record on Attachment C.	
n AF	5.46	Open 1M	S-2019, B SG STM Supply to 1P-29 AFP.	
maintai GPM <u>O</u>	5.47	Shut <u>ANI</u> Supply M	time 1MS-2020, 1HX-1A SG Header 1P-29 AFP Steam OV.	
r and	[5.47.1	Record time to SHUT on Attachment C.	
CAU1 Monito	Į	5.47.2	Check the rising stem indicator for SHUT indication <u>AND</u> record on Attachment C.	
o P-29 low gi	5.48	Open 1MS	S-2020, 1HX-1A SG Header 1P-29 AFP Steam Supply MOV.	
amage t	NOT	E: Steam securi	Generator level deviation alarms are possible when ng Auxiliary Feedwater Flow.	
prevent d and o	5.49	Shut 1AF- 1AF-4002 flow decre	4000, 1P-29 AFP Disch SG B Inlet MOV <u>AND</u> observe , 1P-29 AFP Mini-Recirc Control Valve, begins to OPEN as eases to approximately 110 gpm.	
{ Ĕ	5.50	Check 1A flow. Use	F-4002, 1P-29 AFP Mini-Recirc CV, OPEN <u>AND</u> controlling either local or control board indication.	
	5.51	Adjust flo approxima Mini-Reci	w with 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, to tely 150 gpm <u>OR</u> as required to close 1AF-4002, 1P-29 AFP rc CV.	
	5.52	Check 1Al control boa	F-4002, 1P-29 AFP Mini-Recirc CV, SHUT. Use either local or ard indication.	

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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INITIALS

- NOTE: Steam Generator level deviation alarms are possible when adjusting Auxiliary Feedwater Flow. The following provides a full stroke of 1AF-100, 1HX-1A SG NOTE: Auxiliary Feedwater First Off Check, 1AF-106, 1P-29 AFP Discharge to 1HX-1A SG Check, 1AF-108, 1P-29 AFP Discharge Check, and 1AF-111, 1P-29 AFP Suction Check. 5.53 Adjust 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, for a total auxiliary feed flow rate of 400 gpm as indicated on 1DPIS-4002 AND record the following: Time 400 GPM is achieved Clock hrs. Turbine steam pressure 1PI-2076 psig and or recirc flow greater than 75 GPM OR Stop the pump. 1AF-4001 position 1C-03 1AF-4001 position Local 1A steam generator pressure 1PI-468 psig Auxiliary feed flow rate to 1A SG 1FI-4036 gpm Auxiliary feed flow rate to 1B SG 1FI-4037 gpm 1P-29 Auxiliary feed flow rate 1DPIS-4002 gpm 1P-29 disch pressure 1PI-4004 psig 5.54 IF the 40-month functional and/or 10-year N-498-1 hydrostatic pressure test is being performed concurrently with this procedure THEN after feeding Unit 1 A S/G for greater than 10 minutes with pump - discharge pressure greater than 1173 psig, instruct NDE to perform VT-2 on the piping and components downstream of AF-4001 and record in 1-PT-AF-2. 5.55 IF the 40-month functional and/or the 10-year N-498-1 hydrostatic pressure test is being performed concurrently with this procedure THEN perform steps 5.56, 5.57, and 5.58 (otherwise mark as N/A). 5.56 Shut the following valves.
 - 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, AND
 - 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV.
 - 5.57 Ensure 1AF-4002, 1P-29 AFP mini-recirc is open.

TGN 2002-034]

To prevent damage to P-29 Monitor and maintain AFW discharge

CAUTION

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1 IT 08A SAFETY RELATED Revision 29 August 23, 2002

INITIALS

5.58 After 1P-29 has been in service for a total of 4 hours <u>AND</u> with pump discharge pressure greater than 1173 psig, instruct NDE to complete VT-2 examination of the remaining balance of AF System piping and components <u>AND</u> record data in 1-PT-AF-2.

CAUTION

Do <u>NOT</u> exceed a total flow greater than 450 gpm during the performance of steps 5.59, 5.60 and 5.61.

- 5.59 Using Attachment F, adjust 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, to the indicated flow for the existing A S/G pressure.
- 5.60 Using Attachment F, adjust 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, to the indicated flow for the existing B S/G pressure.
- 5.61 Adjust 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV <u>AND</u> 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, as necessary, to balance steam generator flows. (Total flow based on Attachment F.)
- 5.62 Record the following:

Aux Feed flow to 1A SG Aux Feed flow to 1B SG Aux Feed flow 1A SG Pressure 1B SG Pressure

 1FI-4036

 1FI-4037

 1DPIS-4002

 1PI-468

 1PI-478

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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INITIALS

5.63 Record the as-left position of 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV <u>AND</u> 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV.

5.63.1		<u>1AF-4000</u>	<u>1AF-4001</u>
	1C-03	%	%
	Local	%	%

5.63.2 Update the wall plaque with the date the test was run and the as-left positions for 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV <u>AND</u> 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV. (B-6)

Wall Plaque	1AF-4000 position		%
		Date	as-left
Wall Plaque	1AF-4001 position		%
		Date	as-left

- 5.64 Isolate <u>AND</u> vent pump suction pressure gauge 1PI-4013A, 1P-29 AFP Suction Pressure Indicator.
- 5.65 Unlock <u>AND</u> shut 1AF-18, P-29 AFP Discharge to Hx-1A Steam Generator.
- NOTE: The following two steps are performed concurrently.
- 5.66 Unlock <u>AND</u> shut 1AF-19, P-29 AFP Discharge to Hx-1B Steam Generator valve.
- 5.67 Check that as flow decreases the mini-recirc valve, 1AF-4002, 1P-29 AFP Mini-Recirc CV, begins to OPEN at approximately 110 gpm. (B-7)

CAUTION

To prevent damage to P-29 Monitor and maintain AFW discharge and or recirc flow greater than 75 GPM <u>OR</u> Stop the pump.

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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NOT	E: A1 ala alı	nnunciator C01A 2-8, Unit 1 Aux Feed System Disabled will arm and clear during the performance of Step 5.68 unless ready in alarm.	
5.68	Restor to AU	e 1P-29, Aux Feedwater Turbine-Driven Pump, steam supply valves TOMATIC.	
	5.68.1	Position an Operator to observe the coastdown behavior of 1P-29, Aux Feedwater Turbine-Driven Pump, for unusual noises, vibrations, or any other abnormal conditions.	
	5.68.2	Shut 1MS-2019, B SG STM Supply to 1P-29 AFP <u>AND</u> return control switch to AUTO.	
	5.68.3	Shut 1MS-2020, 1HX-1A SG Header 1P-29 AFP Steam Supply MOV <u>AND</u> return control switch to AUTO.	
	5.68.4	Record Time	
	5.68.5	Note all abnormal conditions in Remarks Section.	
5.69	Open <u>4</u> Genera	AND lock 1AF-18, 1P-29 AFP Discharge to Hx-1A Steam ttor.	
5.70	Open <u>AND</u> lock 1AF-19, 1P-29 AFP Discharge to Hx-1B Steam Generator.		
5.71 	<u>IF</u> reactor power was reduced to perform this test, <u>THEN</u> commence a power increase using RTO calculation, if available, as directed by the DSS while continuing with the procedure.		
5.72	Ensure position	1MS-126, 1P-29 AFP Steam Supply Inlet, LOCKED in the OPEN a.	
5.73	Enable the blowdown isolation interlock for Unit 1 by placing 1P-29 AFP SGBD Isolation Defeat to OFF, if required.		
5.74	Check	valve operability on Attachment A, IST Valve Data Sheet.	
5.75	Check p limits o operabi	oump <u>AND</u> valve operability by comparing the data with the n Attachment B. Full flow data is required (400 gpm) for lity determination.	

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COLD START OF TURBINÉ-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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	· · · · · · · · · · · · · · · · · · ·			
				INITIALS
5.76	Check valve of	perability on Attachment C, IST Valve Data S	Sheet.	
5.77	Check 1P-29, A	Aux Feedwater Turbine-Driven Pump, pump	and	
	Attachment B	with the limits in Attachment E if required	orded on	
5.78	Second indepervention verification.	ndent operator perform the following valve li	neup	
	NOTE: Equ	uipment Danger Tagged may be marked as	; N/A.	
			Position	
	1MS-2019	B SG STM Supply to 1P-29 AFP	S-A	
	1MS-2020	A SG STM Supply to 1P-29 AFP	S-A	
	1AF-4000	1P-29 AFP Disch SG B Inlet MOV	Т	
			(Per Local Wall Plaque	e)
	1AF-4001	1P-29 AFP Disch SG A Inlet MOV	Т	
	,		(Per Local Wall Plaque	c)
	1MS-126	1P-29 AFP Steam Supply Inlet	LO	
	1MS-2082	1P-29 AFP Overspeed Trip	Reset - O	
	1AF-4002	1P-29 AFP Mini-Recirc CV	UG/LH	
	FP-306	1P-29 Bearing Supply Header Isolation	LO	
	1AF-125	1AF-4002-S, 1P-29 AFP Mini Recirc	LO	
		Solenoid Outlet Isol	LO	
	1AF-126	1AF-4002-S, 1P-29 AFP Mini Recirc	LS	
		Solenoid Bypass Isolation	20	
	IA-352	2AF-4002 AFP Mini-Recirc Control	0	
		Valve Operating Air Inlet	-	
	1AF-176	IP-29 AFP Mini-Recirc IA 1AF-173 Test	S&C	
	1AF-175	IP-29 AFP Mini-Recirc IA 11-212 Isolation	0	
		1P-79 AFP Bearing Cooling Inlet Test	Dod Looked .	
	1MS-2090	Switch		
		1P-20 AFP Discharge to UV 1A Steam	NORMAL	
	1AF-18	Generator	LO	
		1P-29 AFP Discharge to Hy_1R Steam	-	
	1AF-19	Generator	LO	
		1P-20 AFP SGBD Isolation Defeat	-	
	N/A	switch	OFF	

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POINT BEACH NUCLEAR PLANT INSERVICE TESTS

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

INITIALS

- 5.79 Reset 1LC-2125, Condenser Hotwell Level Controller, to maintain desired hotwell level.
- 5.80 <u>IF</u> this test is being performed as a post-maintenance operability test, <u>THEN</u> contact an IST Engineer or representative to verify measured ASME OM Code data is acceptable prior to declaring the pump/valves operable.
- 5.81 Complete Section 6.1.1 of the Analysis section.
- 5.82 IF level 4 dedicated operators were assigned for this procedure,

THEN they may be released from their duties.

5.83 <u>IF</u> test was satisfactory, <u>THEN</u> exit LCO 3.7.5.B, Action Condition for 1P-29, Aux Feedwater Turbine-Driven Pump.

Time _____ Date ____

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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6.0	<u>ANAI</u>	<u>LYSIS</u>					
	6.1	Operation	<u>s</u>				
		6.1.1	Comparisons w values complete	rith allowable : e.	ranges of A	cceptance Criteria test	
				SRO	·	Date/Time	
		6.1.2	Forward compl Engineer via O	eted procedure perations Spec	e to IST Coc ialist.	ordinator/Cognizant	
	NOTI	E: To be coord	completed with inator or his rep	in 96 hours o presentative.	f test comp	letion by IST	
	6.2	IST Coord	linator				
		6.2.1	Comparisons w of deviations co	rith allowable is some set of the	ranges of te	st values and analysis	<u> </u>
		6.2.2	Any requirement the IST Remark	nts for correcti as section.)	ve action? (If yes, give details in	
			(Circle one)	YES	NO		
		6.2.3	IF Acceptance THEN initiate	Criteria needs a procedure re	updating, vision.	·	
			Data	Analyzed By		Date/Time	
IST Re	marks:						
-			, <u></u>			·	

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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- 7.1.1 3.7.5, AFW System
- 7.1.2 5.5.7, Inservice Testing Program
- 7.1.3 SR 3.7.5.2
- 7.1.4 SR 3.7.5.4
- 7.2 Procedures
 - 7.2.1 CL 13E Part 1, Auxiliary Feedwater Valve Lineup Turbine-Driven, Unit 1
 - 7.2.2 0-TS-RE-001, Power Level Determination
 - 7.2.3 AOP-21, PPCS Malfunction
 - 7.2.4 1-PT-AF-2, Turbine Driven Auxiliary Feedwater System Main Steam Pressure Test - Outside Containment, Unit 1
 - 7.2.5 OM 3.26, Use of Dedicated Operators
- 7.3 Miscellaneous
 - 7.3.1 NRC Generic Letter 89-013
 - 7.3.2 ASME OM Code, 95Edition with 96 Addenda, Code for Operation and Maintenance of Nuclear Power Plants
 - 7.3.3 PBF-3070, Potentially Contaminated Steam Releases for Unit
 - 7.3.4 PBF-2114, Return to Service Testing Review

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

8.0 BASES

- B-1 IR 96-006, NRC Inspection Report; NRC Commitment for Operations procedures PMT/QC reviews
- B-2 CR 98-1064, SW to TDAFWP CLG WTR ISOL VLV incomplete position indication requirements
- B-3 CR 98-0690, which states that the procedure does <u>NOT</u> provide any guidance for pump operability verification as required by Technical Specification 15.4.8.2
- B-4 CR 98-0122, Move inservice testing acceptance criteria into the respective procedures
- B-5 CR 99-0654, Reactor was <u>NOT</u> tripped when admin low T_{AVE} Value was exceeded
- B-6 CR 99-08001, Improper positioning of Turbine driven Aux Feed pump disch valves
- B-7 CR 99-1205, Relief valve lifts during 1P-29, Aux Feedwater Turbine-Driven Pump, shutdown

NSERVICE TESTS	NT	IT 08A SAFETY RELATED Revision 29		
COLD START OF TURBINE-DF PUMP AND VALVE TEST (QUA JNIT 1	August 23, 2002			
EMARKS SECTION:				
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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

ATTACHMENT A VALVE STROKE VERIFICATION Page 1 of 3

NOTE: Data that falls outside the listed Acceptance Criteria constitutes inoperability of the related equipment.

Quart	Quarterly Full Stroke Exercise, Stroke Time Shut, and Position Indication Test of 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV							
Step No.	Parameter Measured	Instrument Used	Units	Reading	Acceptance Criteria	Initials		
5.10.2	Time to OPEN (info only)	Stopwatch	sec.		N/A			
5.10.3	1C03 Position Indication	Board Meter	%		≥85			
5.10.4	Local Position Indication	Local Valve Indicator	%		≥85			
5.10.5	Time to SHUT	Stopwatch	sec.		17.34 - 23.46			
5.10.6	1C03 Position Indication	Board Meter	%		≤15			
5.10.7	Local Position Indication	Local Valve Indicator	%		≤15			

Quarterly Full Stroke Exercise, Stroke Time Shut, and Position Indication Test of 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV								
Step No.	Parameter Measured	Instrument Used	Units	Reading	Acceptance Criteria	Initials		
5.11.2	Time to OPEN (info only)	Stopwatch	sec.		N/A			
5.11.3	1C03 Position Indication	Board Meter	%		≥85			
5.11.4	Local Position Indication	Local Valve Indicator	%		≥85			
5.11.5	Time to SHUT	Stopwatch	sec.		17.68 - 23.92			
5.11.6	1C03 Position Indication	Board Meter	%		≤15	1		
5.11.7	Local Position Indication	Local Valve Indicator	%		≤15			

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

ATTACHMENT A VALVE STROKE VERIFICATION

Page 2 of 3

NOTE: Data that falls outside the listed Acceptance Criteria constitutes inoperability of the related equipment.

Quarte	Quarterly Full Stroke Exercise, Stroke Time Open, Fail-Safe Open, and Position Indication Test of 1MS-2090, 1P-29 AFP Bearing Cooling Inlet							
Step No.	Step No.Parameter MeasuredInstrument UsedUnitsReadingAcceptance CriteriaInitials							
5.12.3	Time to OPEN	Stopwatch	sec.		0-2			
5.12.4	Local Position Indication	Panel 1C-144 Open Light	N/A		OPEN			
5.12.6	Time to SHUT (info only)	Stopwatch	sec.		N/A			
5.12.7	Local Position Indication	Panel 1C-144 Shut Light	N/A		SHUT			

	Quarterly Stroke Shut Test of IMS-2082, 1P-29 AFP Overspeed Trip, valve								
Step No.	Parameter Measured	Instrument Used	Units	Reading	Acceptance Criteria	Initials			
5.13.2	SHUT 1MS-2082, 1P-29 AFP Overspeed Trip	trip button on turbine shaft	N/A		N/A				
5.13.3	Amber trip light illuminates on 1C-03	Lamp	N/A		N/A				

	Quarterly Closure Exercise of 1AF-173, 1P-29 AFP Mini-Recirc IA 2 nd Off Check									
Step No.	Parameter Measured	Instrument Used	Units (Note 1)	Reading	Acceptance Criteria (Note 1)	Initials				
5.14.4	Flow from 1AF-176	N/A	Excessive flow present (Yes/No)		No excessive flow after initial depressurization					

NOTE: If excessive flow is present after one minute then the test is UNSAT. Excessive flow is defined as audible flow or flow that can be felt by hand at a distance of six inches from the valve.

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT A VALVE STROKE VERIFICATION

Page 3 of 3

	Quarterly Full Stroke Exercise, Stroke Time Open and Shut, and Position Indication Test of 1AF-4002, 1P-29 AFP Mini-Recirc Control Valve and Stroke Open Test of 1AF-173									
	Step No.	Parameter Measured	Instrument Used	Units	Reading	Acceptance Criteria	Initials			
11	5.15.4	Time to OPEN	Stopwatch	sec.		3.3 - 4.95				
	5.15.5	Local Position Indicator	N/A	%		. OPEN				
	5.15.8	Time to SHUT	Stopwatch	sec.		4.5 - 13.5				
5.15.9 Local Position Indicator N/A % SHUT										

Acceptance Criteria Satisfied for all tested valves in Attachment A: (Circle one) SAT UNSAT

Remarks:

/ / Performer Date/Time SRO Date/Time

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT B 1P-29, Aux Feedwater Turbine-Driven Pump, Recirc Flow Data Page 1 of 3

Step	Parameter	Instrument	Units	Acceptance Criteria	Reading
5.17.3	Pump Suction Pressure Before Test	1PI-4013A	psig	N/A	
5.18	Bearing Cooling Supply Pressure	1PI-4458	psig	N/A	
5.19	Steam Generator Pressure 1A	1PI-468	psig	N/A	
5.19	Steam Generator Pressure 1B	1PI-478	psig	N/A	
5.29	Mini-Recirculation Flow (Full Stroke Open Test of 1AF-114)	1FIT-4049	gpm	>100	
5.32	Turbine Steam Pressure	1PI-2076	psig	N/A	
5.33	Packing glands for excessive leakage	N/A	N/A	Check (4) if ok.	
5.34	Pump and turbine for unusual noise, odors, overheating, or leaks and verify service water flow to bearings	N/A	N/A	Check (4) if ok.	
5.35.2	Bearing Cooling Supply Pressure	1PI-4458	psig	N/A	
5.36	Bearing Cooling Supply △P 5.35.2 - 5.18	1PI-4458	psid	≥10	·
	VIBRATION POINT ID				
5.37	1P29 GOV H ips Note 4	Micro-logger	IPS pk		
5.37	1P29 GOV H ips Note 4	Micro-logger	Gpk		
5.37	1P29 GOV H ips Note 4 .	Micro-logger	G env		
5.37	1P29 1V ips Note 4	Micro-logger	IPS pk		
5.37	1P29 1H ips Note 4	Micro-logger	IPS pk		
5.37	1P29 1H ae Note 4	Micro-logger	G env		
5.37	1P29 1H acc Note 4	Micro-logger	G pk		
5.37	1P29 1A ips Note 4	Micro-logger	IPS pk		
5.37	1P29 2V ips Note 4	Micro-logger	IPS pk		
5.37	1P29 2H ips Note 4	Micro-logger	IPS pk		
5.37	1P29 3V ips (C) Note 3	Micro-logger	IPS pk		
5.37	1P29 3H ips (D) Note 3	Micro-logger	IPS pk		
5.37	1P29 3H ae Note 4	Micro-logger	Genv		
5.37	1P29 3H acc Note 4	Micro-logger	G pk		
5.37	1P29 4V ips (A) Note 3	Micro-logger	IPS pk		
5.37	1P29 4H ips (B) Note 3	Micro-logger	IPS pk		
5.37	1P29 4H ae Note 4	Micro-logger	Genv		
5.37	1P29 4H acc Note 4	Micro-logger	G pk		
5.37	1P29 4A ips (E) Note 3	Micro-logger	IPS pk		

CONTINUOUS USE

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT B

1P-29, Aux Feedwater Turbine-Driven Pump, 400 GPM Flow Data 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV Page 2 of 3

Step		Param	leter		Instrument	Units	Acceptance Criteria	Reading
5.42	1P-29 Auxiliary Feed Flow Rate				IDPIS-4002	gpm	400	Note 6
5.42	1P-29 Recircula	tion Flow I	Rate		1FIT-4049	gpm	N/A	
5.42	Pump Discharge	e Pressure			1PI-4004	psig	N/A	
5.42	Pump Suction P	ressure Du	ring Test		1PI-4013A	psig	N/A	
5.42	Pump Differenti	ial Pressure			Note 2	psid	-1167 - 1303.8	
5.42	Condensate Stor	rage Tank 7	Cemperature (Note 1)	TI-4045/4046	°F	N/A	
5.42	Turbine rpm			Portable		3564 - 3636		
	VIBRATION POINT ID							
5.42	1P29 1V ips Note 4				Micro-logger	IPS pk		
5.42	1P29 1H ips Note 4				Micro-logger	IPS pk		
5.42	1P29 1A ips No	ote 4			Micro-logger	IPS pk		
5.42	1P29 2V ips No	ote 4			Micro-logger	IPS pk		
5.42	1P29 2H ips No	ote 4			Micro-logger	IPS pk		
5.42	1P29 3V ips (C) Note 3			Micro-logger	IPS pk	≤0.36	
5.42	1P29 3H ips (D) Note 3			Micro-logger	IPS pk	≤0.54	
5.42	1P29 4A ips (E)) Note 3			Micro-logger	IPS pk	<u>≤0.15</u>	
5.42	1P29 4V ips (A)) Note 3			Micro-logger	IPS pk	≤ 0.312	
5.42	1P29 4H ips (B) Note 3			Micro-logger	IPS pk	<u>≤ 0.504</u>		
5.42	Bearing Pump Inboard 1TH			R-2000 B Pt 17	°F	<u>≤</u> 160		
5.42	Temperature	Temperature Outboard 1TF			R-2000 B Pt 18	°F	<u>≤</u> 160	
5.42	Note 5	Turbine	Outboard	11	R-2000 B Pt 19	°F	≤250	
5.42			Inboard	11	R-2000 B Pt 20	°F	≤250	

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ATTACHMENT B Page 3 of 3

- NOTE 1: On the data sheet, circle the appropriate temperature indicator. If tanks are cross-connected, used the average of both tanks. TI-4045, A Tank / TI-4046, B Tank
- NOTE 2: Differential pressure = pump discharge pressure pump suction pressure during test.
- NOTE 3: Points marked A, B, C, D, and E on Figure 1 are required for ASME OM Code. Other points shown are for analysis and trending only.
 - NOTE 4: 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.
 - NOTE 5: Bearing temperatures are compared to limits listed on Attachment E.
 - NOTE 6: A flow rate of 400 GPM is the reference point.

Acceptance Criteria Satisfied for all parameters in Attachment B. (Circle one) SAT UNSAT

Remarks:

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/ / Performer Date/Time SRO Date/Time

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

ATTACHMENT C VALVE STROKE VERIFICATION

NOTE: Data that falls outside the listed Acceptance Criteria constitutes inoperability of the related equipment.

(Quarterly Stroke Time Open and Position Indication Test of 1MS-2019, B SG STM Supply to 1P-29 AFP								
Step No.	Parameter Measured	Parameter Instrument Measured Used		Reading	Acceptance Criteria	Initials			
5.23.2	Time to OPEN	Stopwatch	sec.		18.28 - 24.70				
5.23.3	Local Position Indication	N/A	N/A		OPEN				

Quarterly Stroke Time Open and Position Indication Test of 1MS-2020, A SG STM Supply to 1P-29 AFP							
5.23.5	Time to OPEN	Stopwatch	sec.	19.06 - 25.78			
5.23.6	Local Position Indication	N/A	N/A	OPEN			

Quarterly Stroke Time Shut and Position Indication Test of 1MS-2019, B SG STM Supply to 1P-29 AFP									
5.45.1	Time to SHUT	Time to SHUTStopwatchsec.18.43 - 24.93							
5.45.2	Local Position Indication	N/A	N/A	SHUT					

	Quarterly Stroke Time Shut and Position Indication Test of 1MS-2020, A SG STM Supply to 1P-29 AFP							
5.47.1	5.47.1 Time to SHUT Stopwatch sec. 19.51 - 26.39							
5.47.2	Local Position Indication	N/A	N/A	SHUT				

Acceptance Criteria Satisfied for all tested valves in Attachment C: (Circle one) SAT UNSAT

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Remarks:

/ / Performer Date/Time SRO Date/Time

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT D

- 1.0 This attachment shall be completed to document performance of multiple valve strokes. A separate copy of this attachment shall be prepared for each valve requiring multiple valve strokes. All copies of this attachment shall be attached to this procedure when the procedure is complete.
- 2.0 Refer to procedure steps required to perform stroking.
- 3.0 List procedure steps by number, including adequate spaces to record initials, as appropriate. For components requiring independent verification or concurrent checks, provide for such checks on the final stroking.
- 4.0 Complete the attachment by performing the procedure steps and recording the required data.

Valve Number:	Date:

Step	Initials	Initials	Initials	Initials	Initials	Initials	Initials
			<u> </u>				
						<u> </u>	
		<u> </u>					
						<u> </u>	
	•			<u> </u>		<u> </u>	
		<u> </u>		<u> </u>			
		<u> </u>					
					<u> </u>		
Safety Related Requ	irement: C)pen / Shu	t (circle as	required)			

Data	Data	Data	Data	Data	Data	Data	Data
Time to shut (sec.)							•
Time to open (sec.)							

COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT E

EVALUATION OF TURBINE DRIVEN AFP BEARING COOLING

1.0 Compare the bearing temperatures as recorded on the appropriate Attachment B to the criteria below.

ACCEPTABLE RANGE

Pump inboard bearing temperature ≤120°F Pump outboard bearing temperature ≤120°F Turbine inboard bearing temperature ≤225°F Turbine outboard bearing temperature ≤225°F

ALERT RANGE

Pump inboard bearing temperature >120°F <160°F Pump outboard bearing temperature >120°F <160°F Turbine inboard bearing temperature >225°F <250°F Turbine outboard bearing temperature >225°F <250°F

ACTION REQUIRED (PUMP OOS) RANGE

Pump inboard bearing temperature ≥160°F Pump outboard bearing temperature ≥160°F Turbine inboard bearing temperature ≥250°F Turbine outboard bearing temperature ≥250°F

- 2.0 If a bearing temperature falls into the Alert range, then:
 - 2.1 The pump is still operable.
 - 2.2 A MWR shall be written to perform an engineering evaluation of the pump.
- 3.0 If a bearing temperature falls into the Required Action range, then:
 - 3.1 The pump is considered inoperable.
 - 3.2 The LCO Action Condition remains in effect.
 - 3.3 Notify the DCS and STA.

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

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ATTACHMENT F

STEAM GENERATOR PRESSURE vs. AUX FEEDWATER FLOW

NOTE: If Steam Generator pressures are <u>NOT</u> equal, flows should be set based on the highest indicated pressure.

S/G Press	Total Aux FW Flow	Flow to each S/G	S/G [°] Press	Total Aux FW Flow	Flow to each S/G	S/G Press	Total Aux FW Flow	Flow to each S/G	S/G Press	Total Aux FW Flow	Flow to each S/G
1090	261	131	1006	290	145	922	319	160	838	348	174
1087	262	131	1003	291	146	919	320	160	835	349	174
1084	263	132	1000	292	146	916	321	161	832	350	175
1081	264	132	997	293	147	913	322	161	829	351	176
1078	265	133	994	294	147	910	323	162	826	352	176
1075	266	133	991	295	148	907	324	162	823	353	177
1072	267	134	988	296	148	904	325	163	820	354	177
1069	268	134	985	297	149	901	326	163	817	355	178
1066	269	135	982	298	149	898	327	164	814	356	178
1063	270	135	979	299	150	895	328	164	811	357	179
1060	271	136	976	300	150	892	329	165	808	358	179
1057	272	136	973	301	151	889	330	165	805	359	180
1054	274	137	970	302	151	886	331	166	802	360	180
1051	275	137	967	304	152	883	333	166	799	362	181
1048	276	138	964	305	152	880	334	167	796	363	181
1045	277	138	961	306	153	877	335	167	793	364	182
1042	278	139	958	307	153	874	336	168 ·	790	365	182
1039	· 279	139	955	308	154	871	337	168	787	366	183
1036	280	140	952	309	154	868	338	169	784	367	183
1033	281	140	949	310	155	865	339	169	781	368	184
1030	282	141	946	311	155	862	340	170	778	369	184
1027	283	141	943	312	156	859	341	170		1	
1024	284	142	940	313	156	856	342	171			
1021	285	142	937	314	157	853	343	171			
1018	286	143	934	315	157	850	344	172			
1015	287	144	931	316	158	847	345	173	•	1	
1012	288	144	928	317	159	844	346	173			
1009	289	145	925	318	159	841	347	174		·	
1006	290	145	922	319	160	838	348	174			
											1

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

ATTACHMENT G 1P-29 Train Recovery for AF Initiation Page 1 of 3

	NOT	E: S	teps that do <u>NOT</u> apply are marked N/A.	INITIALS			
	1.0	Enabl Isolat	le the blowdown isolation interlock for Unit 1 by placing 1P-29 AFP SGBD ion Defeat to OFF, if required.				
	2.0	Open	Open 1AF-125, AFP Mini Recirc AF-4002-S Outlet Isolation.				
	3.0	Shut	Shut 1AF-126, 1P-29 AFP Mini Recirc AF-4002-S Bypass Isolation.				
	4.0	Open	Open 1AF-18, P-29 AFP Discharge to HX-1A Steam generator.				
	5.0	Open	Open 1AF-19, P-29 AFP Discharge to HX-1B Steam generator.				
	6.0	Adjus	st 1AF-4000, 1P-29 AFP Disch SG B Inlet MOV, to the required position.				
	7.0	Adjus	st 1AF-4001, 1P-29 AFP Disch SG A Inlet MOV, to the required position.	 			
l	8.0	Shut a	and Cap 1AF-176, 1P-29 AFP Mini-Recirc IA 1AF-173 Test Connection.				
	9.0	Open	1AF-175, 1P-29 AFP Mini-Recirc IA 1T-212 Isolation.				
	10.0	Open	IA-352, 1AF-4002 AFP Mini-Recirc Control Valve Operating Air Inlet.				
	11.0	Open FP-306, 1P-29 Bearing Supply Header Isolation.					
	12.0	Place positio	1MS-2090, 1P-29 AFP Bearing Cooling Inlet, test switch in the NORMAL on.				
1	13.0	IF 1M THEI					
		13.1	Align the flat side of the washer under the trip button with the trip arm. (Local)				
		13.2	Move the plug/stem latching mechanism into line by moving the trip rod to the extreme SOUTH position. (Local)				
		13.3	Verify the overspeed trip mechanism is LATCHED. (Local)				

14.0

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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

ATTACHMENT G 1P-29 Train Recovery for AF Initiation Page 2 of 3

10.4	~ ~		INITIALS					
13.4	Close IN verify the							
	13.4.1	Green light ON.						
	13.4.2	Red light OFF.						
13.5	Open 1M verify the							
	13.5.1	Red light ON.						
	13.5.2	Green light OFF.						
	13.5.3	Verify 1MS-2082, 1P-29 AFP Overspeed Trip, valve Position, amber light OFF.						
	13.5.4	Verify 1MS-2082, 1P-29 AFP Overspeed Trip, valve Position, red light ON.						
13.6	Verify the	e following annunciators are CLEAR:						
	• 1C03 1D 3-8, 1P-29 AFP Low Suction Pressure Trip.							
	• C0	1A 2-8, Auxiliary Feed Water System Disabled.						
Ensure the following after restoration when time is available:								
14.1	1P-29 AFP SGBD Isolation Defeat switch for Unit 1 is in the OFF position, if required.							
14.2	1AF-125,	AFP Mini Recirc AF-4002-S Outlet Isolation, OPEN <u>AND</u> LOCKED	· IV					
14.3	1AF-126,	1P-29 AFP Mini Recirc AF-4002-S Bypass Isolation, SHUT <u>AND</u> LOCKED	IV					
•								

-) -	POINT BEA INSERVICE COLD STAF PUMP AND UNIT 1	CH NUCLEAR PLANT IT 08A TESTS SAFETY RELATED Revision 29 RT OF TURBINE-DRIVEN AUXILIARY FEED August 23, 2002 VALVE TEST (QUARTERLY)	
	14.4	ATTACHMENT G 1P-29 Train Recovery for AF Initiation Page 3 of 3 1AF-18, P-29 AFP Discharge to HX-1A Steam generator, OPEN AND LOCKED	INITIALS
	14.5	1AF-19, P-29 AFP Discharge to HX-1B Steam generator, OPEN <u>AND</u> LOCKED.	
1	14.6 14.7	1AF-176, 1P-29 AFP Mini-Recirc IA 1AF-173 Test Connection. S&C IA-352, 1AF-4002 AFP Mini-Recirc Control Valve Operating Air Inlet. OPEN	IV
	14.8	1AF-175, 1P-29 AFP Mini Recirc IA 1T-212 Isolation. OPEN	IV
	14.9	FP-306, 1P-29 Bearing Supply Header Isolation. OPEN <u>AND</u> LOCKED	IV
	14.10	1MS-2090, 1P-29 AFP Bearing Cooling Inlet, test switch. NORMAL <u>AND</u> LOCKED	
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COLD START OF TURBINE-DRIVEN AUXILIARY FEED PUMP AND VALVE TEST (QUARTERLY) UNIT 1

FIGURE 1

TURBINE-DRIVEN AUXILIARY FEED PUMP



General Layout Drawing - Refer to markings on machine for actual locations.

V = Vertical H = Horizontal A = Axial 1,2,3,4 = Standard bearing numbering (driver to driven) GOV = Governor