

Notification Overview Run Date: 09/21/2010

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 Run Time:
 08:11:10

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 Notification
 20459689

Notification Notification type Description Nuc. Maint. Reque	20459689 N1 ASME SEC XI AUX Feed Water Pressure Test	
Reporter	GILES2271	11:32:25
Notification date Start date	04/21/2010 07/21/2010 End date 07/30/2010	
Start time	08:53:36 End time 08:53:36	
Priority Funct. location	7 O-Outage Sig. Level 3 Main WorkCtr. S-MM SCAF	
AUXILIARY FEEDV	VATER (SALEM)	
Equipment Assembly		
Order	60089871	
PM planner grp	003 SWIM L/T Planning	

04/21/2010 11:32:25 NUCLEARNOT (NUCLEARNOT)

Notification submitted by: Edley Giles 856-339-2271 ENTNBU\NUITG:

CONDITION DESCRIPTION/LOCATION (THE INAPPROPRIATE ACTION AND ITS NEGATIVE EFFECT/INCLUDE A DETAILED LOCATION DESCRIPTION):##

The required ASME Section XI Pressure Testing for the buried Auxiliary Feedwater piping required by the ER-AA-330-001 and OU-AA-335-015 procedures were not performed. The ISI program manager has found no evidence of testing. These procedures implement the requirements of 10CFR50.55a. The system pressure test boundary drawing (S2-SPT-336-0) identifies the piping as YARD piping not buried piping. This is applicable to both Salem Units. The Salem unit 1 piping however is being replaced and will be hydro tested to code requirements prior to being placed in service.

ACTIVITIES, PROCESSES, PROCEDURES INVOLVED:

ER-AA-330-001, Section XI pressure Testing

OU-AA-335-015, VT-2 Visual Examination

WHY DID CONDITION HAPPEN?

The system pressure test boundary drawing (S2-SPT-336-0) identifies the piping as YARD piping not buried piping. However, it is commonly understood that it is buried pipe. CONSEQUENCES:

The implementation of the ASME Section XI pressure testing may not have been completed in the current inspection interval as required. However, the in-service testing required by S2.OP-ST.AF-0007, In-service Testing of Aux Feed Water Valves Modes 4-6, infers that the functional requirements of the test have been met. The test records pump dp and pump flow. The flow measurement occurs down stream of the buried section of piping. The pump dp is taken at pump. This ST uses the 21 and 22 AF pumps. Review of the IST data taken (12 STs since May 1997) shows that the pump dp and flows have been constant (considering instrument and instrument reading inaccuracies) since 1997. No ST has exceeded its upper or lower IST limits. The Quarterly STs provide evidence that the 21 and 22 AF pumps are not degraded. The ability of the AF pumps to achieve required flow downstream of the buried piping section at a consistent pump dp provides assurance that the buried piping system condition has not changed. The test also confirms the code requirement that flow is not impaired.

Salem Unit 1 piping is out of service, is being replaced, and will be subject to Code required pressure



Notification Overview

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testing prior to being placed in service.

AFW System TS 3.7.1.2 requires that the AFW system flow paths shall be operable. TS 4.0.5 requires ASME Class 1, 2 and 3 components to be tested in accordance with ASME XI. Since the ASME test was apparently missed, we should treat this as a missed TS surveillance of the buried pipe flow path. TS Surveillance Requirement 4.0.3 states that if the surveillance is not performed within its specified frequency (in this case two (2) cycles), a delay of up to the limit of the specified frequency is allowed IF a risk evaluation is performed for the delay greater than 24 hours and the risk impact is managed.

REQUIREMENTS IMPACTED: ER-AA-330-001, Section XI pressure Testing OU-AA-335-015, VT-2 Visual Examination

ADVERSE PHYSICAL CONDITIONS: No adverse physical condition.

WHO WAS NOTIFIED: Engineering Director KNOWLEDGEABLE INDIVIDUALS: Tim Giles, Ed Maloney, Tom Roberts, H. Berrick, E. Villar REPEAT OR SIMILAR CONDITION: No

IMMEDIATE ACTIONS AND RECOMMENDED ACTIONS:

Engineering to provide risk assessment for Unit 2 Auxiliary Feedwater buried pipe to allow delay in test until next refueling outage (2R18). The risk impact associated with this evaluation shall be managed.

Perform required In-service Pressure Testing in next outage on unit 2 (2R18). Buried piping on unit 1 will be tested prior to returning to service during current 1R20 refueling outage.

Revise U1 & U2 Salem In-service Inspection Program Long Term Plans to identify all buried Section XI piping systems and required testing.

Review Hope Creek Section XI Pressure Testing Program for similar conditions.

04/30/2010 15:42:02 JENNIFER JILL GIESE (NUJJG) mrc notes created n2 20461283 rce

1	Operable	TSCO
NFF	Not a Functional Failure	TSCO
OHP	OH - Other Predictive Maintenance	TSCO
JOHN J SM	ITH	

End of report



No Critical Componenets Identified 60089871				
Order: Order Type Status	60089871 NUCM	ASME SEC XI AUX Feed Water Pressure Test		
Notification Unit Functional Location Equipment Assembly	20459689 S2 S2AF	AUXILIARY FEEDWATER (SALEM)		
Location Room System Priority Main Work Center	AF 7 S-MM	O-Outage Salem Maintenance Mechanical		
Basic Dates:	Start: 04/15/2011	Finish: 04/18/2011 Overdue:		
Sfty Ritd/QA Reqd Sfty Class Mrule Code SEISMIC EQ	SR REQD 1			
Permission to Begin Work		Date: Time: 00:00:00		
Description of Work ASME SEC XI AUX Feed Water Pressure Test IAW CODE CASE N498, a system pressure test required				
EQUIPMENT L	OCATION: SALEN	и U2 OUTER PEN, NEAR CAN WALL REA (22AF124 & 24AF124) и и и и и и и и и и и и и и и и и и и		
* OBTAIN M (ALL MATI * MOBILIZE	ERIAL IN-HAND O	REFAB TESTING RIG F FITTERS PER NUWXK) ITTING, TEST RIG		



 * OPERATIONS LINE-UP FOR TEST * PERFORM PRESSURE TEST AS DIRECTED AN * COORDINATE WITH WALT SHEET SO HE CA * ENGINEERING SUPPORT TESTING / EVAL RES * SECURE TEST * OPS RESTORE SYSTEM LINE-UP * REMOVE TP&L * DEMOBILIZE ALL TOOLS EQUIP FROM OUTEF RETURN ALL EQUIPMENT AS REQUIRED 	N PERFORM HIS EXAM SULTS
 IMPACT TO PLANT EQUIPMENT OPERABILITY ER-AA-330-001, Section XI pressure Testing OU-AA-335-015, VT-2 Visual Examination 	:
LIST APPLICABLE TECH SPECS - CODE CAS	E N498
3) POSSIBLE ACTUATIONS AND/OR ALARMS: NO	0
 4) RELEVANT WORK HISTORY / OPERATING EXI * 60089661 S2 G-WAVE INSPECTIONS OF 22/ * 50052532 10-YEAR HYDROSTATIC TESTS 11 	24 AF LINES
5) RELATED REGULAR MAINT. TASKS FOR POS * 50071761 10-YEAR HYDROSTATIC TESTS 10	
**************************************	NOT) 271 ENTNBU\NUITG: for the buried Auxiliary Feedwater A-335-015 procedures were not no evidence of testing. These 50.55a. The system pressure test piping as YARD piping not buried ne Salem unit 1 piping however is
ACTIVITIES, PROCESSES, PROCEDURES INVOLVE ER-AA-330-001, Section XI pressure Testing OU-AA-335-015, VT-2 Visual Examination	ED:
WHY DID CONDITION HAPPEN? The system pressure test boundary drawing (S2- YARD piping not buried piping. However, it is co pipe.	



CONSEQUENCES:

The implementation of the ASME Section XI pressure testing may not have been completed in the current inspection interval as required. However, the in-service testing required by S2.OP-ST.AF-0007, In-service Testing of Aux Feed Water Valves Modes 4-6, infers that the functional requirements of the test have been met. The test records pump dp and pump flow. The flow measurement occurs down stream of the buried section of piping. The pump dp is taken at pump. This ST uses the 21 and 22 AF pumps. Review of the IST data taken (12 STs since May 1997) shows that the pump dp and flows have been constant (considering instrument and instrument reading inaccuracies) since 1997. No ST has exceeded its upper or lower IST limits. The Quarterly STs provide evidence that the 21 and 22 AF pumps are not degraded. The ability of the AF pumps to achieve required flow downstream of the buried piping section at a consistent pump dp provides assurance that the buried piping system condition has not changed. The test also confirms the code requirement that flow is not impaired.

Salem Unit 1 piping is out of service, is being replaced, and will be subject to Code required pressure testing prior to being placed in service.

AFW System TS 3.7.1.2 requires that the AFW system flow paths shall be operable. TS 4.0.5 requires ASME Class 1, 2 and 3 components to be tested in accordance with ASME XI. Since the ASME test was apparently missed, we should treat this as a missed TS surveillance of the buried pipe flow path. TS Surveillance Requirement 4.0.3 states that if the surveillance is not performed within its specified frequency (in this case two (2) cycles), a delay of up to the limit of the specified frequency is allowed IF a risk evaluation is performed for the delay greater than 24 hours and the risk impact is managed.

REQUIREMENTS IMPACTED: ER-AA-330-001, Section XI pressure Testing OU-AA-335-015, VT-2 Visual Examination

ADVERSE PHYSICAL CONDITIONS: No adverse physical condition.

WHO WAS NOTIFIED: Engineering Director KNOWLEDGEABLE INDIVIDUALS: Tim Giles, Ed Maloney, Tom Roberts, H. Berrick, E. Villar REPEAT OR SIMILAR CONDITION: No IMMEDIATE ACTIONS AND RECOMMENDED ACTIONS: Engineering to provide risk assessment for Unit 2 Auxiliary Feedwater buried pipe to allow delay in test until next refueling outage (2R18). The risk impact associated with this evaluation shall be managed.



Perform required In-service Pressure Testing in next outage on unit 2 (2R18). Buried piping on unit 1 will be tested prior to returning to service during current 1R20 refueling outage.

Revise U1 & U2 Salem In-service Inspection Program Long Term Plans to identify all buried Section XI piping systems and required testing.

Review Hope Creek Section XI Pressure Testing Program for similar conditions.



60089871

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OP	Sub Op.	Work Center	Description	Start Date	Work	No	Durtn	Permit #	Permit Type
0001		S-MM06	COMMENTS:MOVED TO OU TAGE DATE RANGE AS P	04/15/2011	0.0	0	0.0		
0010		S-MM06	S2AF HYDRO: PERFORM PRE-FIELD WORK	04/15/2011	8	2	4		
0020		S-MM06	S2AF HYDRO: PRE-WORK MOBILIZATION	04/15/2011	4	2	2		
0020	0010	S-MM06	PREPARE TRANSIENT CO MBUSTIBLE PERMIT	04/15/2011	1.0	1	1.0		
0030		S-ME09	S2AF HYDRO: INSTALL TP&L PER FORM 1	04/15/2011	· 4	2	2		
0030	0010	S-MM06	S2AF HYDRO: PREP TP&	04/15/2011	1	1	1		



		L FORM 1				
0040	S-MC08	I&C SUPPORT / S2AF H YDRO	04/15/2011	4	2	2
0050	S-OSHF	OPS SUPPORT / S2AF H YDRO	04/18/2011	1	1	1
0080	S-MM06	PERFORM S2AF HYDRO T ESTING PER PROC & 00	04/18/2011	24	3	8
0080 0001	S-EEP17	DEVELOP TEST PLAN	09/13/2010	2.0	1	2.0
0080 0005	S-OSHF	S2AF HYDRO: PRODUCTI ON RISK EVALUATION	04/18/2011	1	1	1
0080 0006	S-OSTW	S2AF HYDRO: PREPARE TAGS AS REQ'D	04/18/2011	1	1	. 1
0080 0011	S-MS	PLAN/S2AF HYDRO	04/18/2011	4	1	4



0080	0020	S-MM06	WORK GROUP PRE & POS T JOB BRIEF	04/18/2011	1	1	1
0085		E-ESOS2	Perform Tech Eval - AF23 retest reqmts	04/23/2010	2.0	1	2.0
0090		C-OSNNDE	S2AF HYDRO / VT-2 EX AM AT PRESSURE	04/15/2011	8.0	1	8.0
0110		S-MM06	POST S2AF HYDRO / RE STORATION	04/15/2011	1	1	1
0120		S-OSHF	POST S2AF HYDRO / SY S RESTORATION	04/15/2011	2	1	2
0130		S-ME09	S2AF HYDRO: REMOVE T P&L AFTER TEST	04/18/2011	4	2	2
0140		S-MM06	S2AF HYDRO: POST-WOR K DE-MOBILIZATION	04/18/2011	4	2	2
0150		S-EDR02	Prepare 50.59 forms	04/22/2010	0.0	0	0.0



0160	S-EDM03	Review 50.50 forms	04/22/2010	0.0	0	0.0
0170	S-ED	Prepare Technical Ev aluation ASME Pressu	04/23/2010	16.0	1	24.0
0180	S-ED	IDV Review Technical Evaluation	04/23/2010	8.0	. 1	12.0
0190	S-ED	SME Review Technical Evaluation	04/24/2010	8.0	· 1	12.0
0200	S-ED	Approve Technical Ev aluation	04/25/2010	4.0	1	8.0

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60089871



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation: RANGE AS P	0001	COMMENTS:MOVED TO OUTAGE DATE
Work center:	S-MM06	NNUC
Status:		
Number of People:	0	
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011
Planned Hours:	0.0	
Actual Dates:	Start: 04/29/2010	Finish:04/29/2010
Actual Hours:	8.000	

Description of Work:

COMMENTS: MOVED TO OUTAGE DATE RANGE AS PER E-7 MTG(WK 30). NUNXL-6-7-10.

"PLACE COMMENTS HERE"

PLACE THE LATEST COMMENT ON THE TOP LINE OF THIS OPERATION, WITH DATE OF COMMENT, YOUR COMMENT, YOUR NAME or USER ID, & PHONE EXT



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure			
Operation: WORK	0010	S2AF HYDRO: PERFORM PRE-FIELD			
Work center:	S-MM06	NNUC			
Status:					
Number of People:	2				
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011			
Planned Hours:	8	,			
Actual Dates:	Start:	Finish:			
Actual Hours:	0				
Description of Work	Description of Work:				
S2AF HYDRO: PERF	S2AF HYDRO: PERFORM PRE-FIELD WORK				

THIS OPERATION IS FOR ANY REQUIRED PRE-FABRICATION, BENCH TESTING AND/OR REFURBISHMENT WHICH CAN BE PERFORMED PRIOR TO FIELD WORK.					

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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0020	S2AF HYDRO: PRE-WORK MOBILIZATION
Work center:	S-MM06	NNUC
Status:		
Number of People:	2	
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011
Planned Hours:	4	
Actual Dates:	Start:	Finish:
Actual Hours:	0	

Description of Work:

S2AF HYDRO: PRE-WORK MOBILIZATION

PERFORM PRE-WORK SET-UP AND MOBILIZATION AS REQUIRED. PREPARE WORK AREA AND SET UP TOOLS.

OBTAIN ANY M&TE, RIGGING AND/OR POWER TOOLS WHICH ARE REQ'D FOR "MULTI-PERSON" USE TO SUPPORT FIELD WORK.

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation: PERMIT	0020 - 0010	PREPARE TRANSIENT COMBUSTIBLE
Work center:	S-MM06	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011
Planned Hours:	1.0	
Actual Dates:	Start:	Finish:
Actual Hours:	0.000	
Description of Work	: IT COMBUSTIBLE PERN	1IT OP-AA-201-009 Revision 0
	ATTACHMENT Transient Combustible Page 1 of 1	
SECTION I		-
Location:	Fire Are	a/CCZ
	Duration:	Order #:
Job Supervisor:		Ext.
EVALUATE TRANSII USED	ENT COMBUSTIBLES W	HICH YOU ANTICIPATE BEING
COMBUSTIBLES	ESTIMATED HEAT (CONTENT TOTAL BTUS
FLAMMABLE LIQUI)	-



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COMBUSTIBLE LIC	
CHARCOAL	·
FIBERGLASS LAD	DER
CABLE INSULATION	
CARDBOARD	
PAPER	
CLOTH and CLOTH PCs	
PLASTICS	
WOOD	
DRY ION RESINS	
TITANIUM	
ACETYLENE	
OTHER	
OTHER	
	Total BTUs ==>
SECTION II	
TCP Requires ED	Review ()Yes ()No By NFPS/Date:
If Yes, TCP to ED And: ED Name ar	o:, nd Fax #, By NFPS/Date:
If Yes, TCP Appro	oved By ED ()Yes ()No By ED/Date:
TCP Approved:	()Yes ()No By NFPS/Date:
TCP Issued. #:	By NFPS/Date
REMOVE ALL TRA	ANSIENT COMBUSTIBLES UPON JOB COMPLETION



Comments:

Special Instructions:



Order: Test	60089	871	ASME	SEC XI AUX Feed Water Pressure	
Operation: 1	0030		S2AF	HYDRO: INSTALL TP&L PER FORM	
Work center:	S-MEO	9	NNUC		
Status:					
Number of People:	2				
Scheduled Dates:	Start:	04/15/2011	Finish:	04/15/2011	
Planned Hours:		4			
Actual Dates:	Start:		Finish:		
Actual Hours:		0			
Description of Work	Description of Work:				
S2AF HYDRO: INST.		&L PER FORM	1		
PROVIDE TEMPORARY POWER AND LIGHT IN ACCORDANCE WITH APPROVED PROCEDURE LISTED ON PRT SCREEN.					
EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)					
PRT: SA-AA-129-2118 PRC 000 00 Description: GENERAL GUIDELINES FOR TEMPORARY POWER (Control key: 3					
PRT: ELEC TPNL OE17708 OED 000 00 Description: Control key: 3					
PRT: ELEC TPN Description:	IL OE18	8863 OED 000	00		



Control key: 1

SPEC TPNL 0E17738 OED 000 00 PRT: **Description:** Control key: 1



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0030 - 0010	S2AF HYDRO: PREP TP&L FORM 1
Work center:	S-MM06	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011
Planned Hours:	1	
Actual Dates:	Start:	Finish:
Actual Hours:	0	
Description of Work	:	
S2AF HYDRO: PREP	TP&L FORM 1	
Page 33		
	FORM-1	
	ARY POWER AND LIGH SUPERVISOR FOR TP&L	
REQUESTOR:	PHONE: [DEPT.:
DATE REQUIRED: ANTICIPATED REM TP&L CONTACT: DCP/PKG NO UNIT: BLDG: LOCATION: INFORMATION OF E POWER: VOLTAGE:	[] 480 [] 220 [] 12	CTIVITY: South _ West TEMPORARY POWER
OTHER		

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Operation Key Info

09/21/2010





Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure	
Operation:	0040	I&C SUPPORT / S2AF HYDRO	
Work center:	S-MC08	NNUC	
Status:			
Number of People:	2		
Scheduled Dates:	Start: 04/15/2011	Finish: 04/18/2011	
Planned Hours:	4		
Actual Dates:	Start:	Finish:	
Actual Hours:	0		
Description of Work:			
I&C SUPPORT / S2A	NF HYDRO		

SUPPORT OF OPERATIONS TESTING			

	ATION WORK PLAN: EQUIPMENT IN SUPPO	ORT OF OPERATIONS PER PLAN	
2) FOREIGN MATER	IAL EXCLUSION CONT	ROLS REQUIRED (Y/N):	



SUGGESTED FMW IAW MA-AA-716-008 FMEA#

S-C-MPOO-MGS-0001 SPC 000 00 PRT: SALEM PIPING SPECIFICATION (61-6200) Description: Control key: 3

PRT: SC.IC-GP.ZZ-0177 PRC 000 00 PANAMETRICS FLOW INSTRUMENT DATA PROCEDU **Description:** Control key: 3



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0050	OPS SUPPORT / S2AF HYDRO
Work center:	S-OSHF	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	1	÷
Actual Dates:	Start:	Finish:
Actual Hours:	0	
Description of Work:	:	

OPS SUPPORT / S2AF HYDRO

CHEMISTRY TO MANIPULATE SYSTEM(S) AS REQUIRED TO REMOVE EQUIPMENT FROM SERVICE AND DRAIN/FLUSH AS NECESSARY TO SUPPORT MAINTENANCE WORK.

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)

PRT: EN-AA-51 PRC 000 00 Description: CHEMICAL MANAGEMENT PROCESS Control key: З

JHA TEMPLATE JHA 000 00 PRT: **Description:** Control key: 3



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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure	
Operation: PROC & 00	0080	PERFORM S2AF HYDRO TESTING PER	
Work center:	S-MM06	NNUC	
Status:			
Number of People:	3		
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011	
Planned Hours:	24		
Actual Dates:	Start: 04/22/2010	Finish:04/22/2010	
Actual Hours:	0		
Description of Work:			
PERFORM S2AF HYDRO TESTING PER PROC & 0080-0001			
****************Long Text Object Identification************************************			
		· * * * * * * * * * * * * * * * * * * *	
EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)			
IDENTIFIED SAFETY CONCERNS: FLAG OFF TEST AREA MAINTAIN PROPER PPE, WORKING WITH PRESSURIZED HOSE USE APPLICABLE HOSE RESTRAINT CONTROLS			
* COORDINATE W * SET-UP AND PE AS DIRECTED B * COORDINATE W	RFORM HYDRO TEST Y TESTING PLAN /ITH WALT SHEET SO	R VALVE MANIPULATIONS IAW SC.MD-GP.ZZ-0035 AND HE CAN PERFORM HIS EXAM LE TEST IN PROGRESS	



- * SECURE TEST WHEN DIRECTED
- * DIRECT OPERATIONS TO RESTORE VALVES TO NORMAL POSITION WHEN TESTING IS COMPLETE.
- 2) FOREIGN MATERIAL EXCLUSION CONTROLS REQUIRED (Y/N): Y SUGGESTED OPTION IAW FME PROCEDURE - FMEA# 2

TAGS REQUIRED

MA-AA-716-004 PRC 000 00 PRT: CONDUCT OF TROUBLESHOOTING Description: Control key: 3

SA-SA-2113 PRC 000 00 PRT: Description: CHEMICAL SAFETY 3 Control key:

PRT: EN-AA-51 PRC 000 00 Description: CHEMICAL MANAGEMENT PROCESS Control key: 3

PRT: MA-AA-716-009 PRC 000 00 USE OF MAINTENANCE PROCEDURES Description: Control key: 3

MA-AA-716-100 PRC 000 00 PRT: MAINTENANCE ALTERATIONS PROCESS Description: 3 Control key:

PRT: MA-AA-716-008 PRC 000 00 FOREIGN MATERIAL EXCLUSION PROGRAM Description: 3 Control key:

SA-AA-0301 PRC 000 00 PRT: PSEG NUCLEAR INDUSTRIAL SAFETY POCKET GU Description: 3 Control key:

OU-AA-335-015 PRC 000 00 PRT: Description: VT-2 VISUAL EXAMINATION Control key: 1



PRT: ER-AA-330-001 PRC 000 00 Description: SECTION XI PRESSURE TESTING Control key: 3

PRT: SC.MD-GP.ZZ-0035 PRC 000 00 Description: PRESSURE TESTING OF NUCLEAR CLASS 2 AND Control key: 1

.



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0080 - 0001	DEVELOP TEST PLAN
Work center:	S-EEP17	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 09/13/2010	Finish: 09/13/2010
Planned Hours:	2.0	
Actual Dates:	Start:	Finish:
Actual Hours:	0.000	
Description of Work:		

DEVELOP TEST PLAN

NDE SUPPORT REQUIRED PROVIDE NDE SUPT AS REQUIRED TO SUPPORT MAINTENANCE ACTIVITIES Comment line:

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 Nuclear LLC

Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation: EVALUATION	0080 - 0005	S2AF HYDRO: PRODUCTION RISK
Work center:	S-OSHF	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	1	
Actual Dates:	Start:	Finish:
Actual Hours:	0	
Description of Work:		
S2AF HYDRO: PRODUCTION RISK EVALUATION		
PRODUCTION RISK EVALUATION WC-AA-104		

CHECK PROCEDURE FOR PROPER REVISION:

ATTACHMENT 1 Production Risk Evaluation Data

Work Group Section:

NOTE: Attachment 1 is required for all packages not meeting the EXEMPT criteria per WC-AA-104.

Description of Task: _______ WO No.: ______

Production Risk Activity Screening:

1. Is the work activity on a system that is on the Station

09/21/2010



Production Risk System Matrix (found on Exelon	Nuclear
Intranet, see references) or near production risk	
sensitive equipment?	
Yes No	

IF question 1 is NO, THEN this is NOT Production Risk Activity and no operations review is required.

- NOTE: Attachment 3 should be used in conjunction with the following questions to provide clarification on the questions intent. If question 1 above is answered Yes, then continue at Question 2.
- Activity could cause equipment actuations that could cause a loss of planned generation? Yes ___ No ____
- Instrument, fuse, circuit board removal/installations that could cause a loss of planned generation? Yes ___ No ___
- Activity will cause a 1/2 scram/ 1/2 trip that could cause a loss of planned generation? Yes No
- Pressurization of common sensing lines that could cause a loss of planned generation? Yes No
- Placing of jumpers or disconnection of "daisy chains" that could cause a loss of planned generation? Yes No
- Activity could cause vibration near production risk vibration sensitive equipment that could cause a loss of planned generation? Yes No
- Is a special procedure or JIT training required to mitigate the threat to generation? Yes ___ No ___
- During the activity, a single human error or omission could cause a loss of planned generation? Yes ___ No ____
- 10. Is the activity a non-routine activity in the switchyard? Yes ___ No ___



11. If any question 2 through 10 is answered YES, then the activity is Production Risk.

COMMENTS:

Risk Screening Performed by: Name / Signature

No Production Risk_____ Production Risk_____

OPERATIONS SECTION:

- NOTE: Existing material condition issues should be considered such that failure, in conjunction with performing the proposed activity could affect planned generation.
- 1. IF during the performance of this activity there is a predicted severe weather (i.e. high winds, severe icing, lighting OR other acts of nature such as sunspots), condition, which may interact the activity to potentially affect planned generation, THEN this activity should be classified as production risk.

COMMENTS:

Operations Review:

Name / Signature

No Production Risk Production Risk

2. If production risk determination is different than from initial screening, notify the Work Week Manager upon determination and prior to performing the activity.



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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0080 - 0006	S2AF HYDRO: PREPARE TAGS AS REQ'D
Work center:	S-OSTW	NNUC
Status:		
Number of People:	1 ´	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	1	
Actual Dates:	Start:	Finish:
Actual Hours:	0	
Description of Works	:	

S2AF HYDRO: PREPARE TAGS AS REQ'D

OPERATIONS TO PREPARE SYSTEM/EQUIPMENT TAGOUT AS REQUIRED.



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0080 - 0011	PLAN/S2AF HYDRO
Work center:	S-MS	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	4	
Actual Dates:	Start: 04/22/2010	Finish:04/22/2010
Actual Hours:	12	
Description of Work	:	
Comment line:		



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0080 - 0020	WORK GROUP PRE & POST JOB BRIEF
Work center:	S-MM06	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	1	
Actual Dates:	Start:	Finish:
Actual Hours:	0	

Description of Work:

WORK GROUP PRE & POST JOB BRIEF

MA-AA-1000

NOTE: All sites will have a coordinated re-enforcement of PJB/HLA/IPA and Post Job Critiques. The Common Procedure Provides Guidance for Conducting Activity Briefings:

. The Common Procedure Does NOT Give Direction for:

. ALARA Briefs

. Safety Briefs

. Emergency Plan Briefs

. Clearances

. Elements for all Briefing Types:

. Participation by all Directly Involved

. Briefing Location Free from Distractions

. Opportunity for Questions & Checking Understanding

. If Warranted, Provisions for Post-Job Critique

. Review of Production Risk Requirements (if applicable)

. Topics for All Briefing Types

. Job Purpose and Scope

. Roles and Responsibilities

. Hazards and Contingencies

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 Safety Requirements and ALARA Previous Lessons Learned Defenses (Error Prevention Barriers) Stop Work Criteria Activities requiring PJB Requires Coordinating Two or more People Involves Simultaneous use of Multiple Procedures Involves Special Hazards like Asbestos, Lead, etc. Significant Consequences if Done Wrong (e.g., reset) Jobs Unfamiliar to Workers Potential Effects on Other Equipment or Areas Potential for Significant Radiological Consequences Screened as Production Risk with a frequency < Quarterly Activities requiring HLA Screened as Production Risk by Work Control and Performed Less Often than Quarterly Non-routine Evolutions requiring Coordination of Four or more People or Multiple Departments, AND Potential adverse Affect on Reactivity Control, Reactor Status, or Emergency Safety Function System Status, C Potential for Radioactive Release OR Potential to Effect Multiple Evolutions in Progress Any Evolution Designated by Senior Line Management, Shift Department Head Activities requiring IPA Potential to Degrade Plant Level of Nuclear Safety Special Tests Low Power Physics testing Reduced Inventory Evolution Maintenance During Reduced Inventory with Potential for Vessel Level Placing Plant in unusual Configuration, Requiring complex Coordination/Sequencing or Invention 	Protection Systems Pressure, Steam Electrical Generation Manager, or Adversely Impacting
 Coordination/Sequencing, or Involving Complex Sequencing, and having Potentially Significantly Regulatory, Political or Financial Impact Station Blackout Testing Shutdown from Outside Control Room Testing As Directed by Senior Line Management 	
HU-AA-1211 Revision 2 Page 13 of 21 Attachment 1 Page 1 of 1	
Activity Description Briefing Leader	



Ensure Positive Engagement by all participants

Use Reverse Briefs as appropriate

Job Purpose/Job Scope Expected results/ Job Duration Estimate **Boundaries**

Turnover Items Abnormal line-ups Parallel activities

Roles and Responsibilities Workers qualified to perform work Master copy holder Worker specific actions Interdepartmental dependencies Firewatch

Task Instructions Prerequisites / Limitations Sequencing of Tasks Work package and N/A.ed instructions reviewed and understood **Technical Specifications** IV, CV, Hold Points Administrative Controls Procedure compliance / Level of use Evolution steps clearly understood

Contingencies Lessons Learned/OPEX/Site Events . List actions taken or should be taken to prevent a similar event Contact whom, if a problem is identified.

Error Precursors Distractions / Time Pressure Overconfidence / Stress **Poor Communications** Poor or vague work instructions First time performing task High work load / Performing multiple tasks First shift back to work Abnormal line-ups / conditions Fatigue or inadequate rest (hours worked) Other identified precursors

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Potential Hazards and /Planned Responses Confined space / Electrical Chemical Hazards (MSDS) / Storage Asbestos / Lead based paint removal Fire Protection requirements Other

Defenses

STAR / Peer Check / Communications Ensure correct UNIT/TRAIN/COMPONENT Attention to detail / Questioning attitude Verification Techniques / OOPS First Check / Technical HU tools Flagging / Robust Operational Barriers Procedure compliance / Level of use

Safety Requirements and Precautions Personal Protective Equipment (PPE) Electrical / Chemical / Other Fall Protection / Special safety considerations Job Hazard Awareness

Foreign Material Exclusion FME Area requirements FME work practices FME Boundaries, devices, & logging

ALARA and Radiological Concerns High Radiation Area entry required RWP review (dose rates and dosimeter alarms) RP hold points Low dose areas \ Contamination levels DAW minimization

Stop Work Criteria Expected results not obtained

Reactivity Management / Nuclear Safety Discuss reactivity management concerns Any potential and/or actual impact Contingencies

Production Risk Concerns - Mark or highlight critical step(s) in the activity that relates to production risk.

- Obtain authorization from Unit or Control Room Supervisor directly prior to performing a critical step or series of critical steps related to production risk.



- Monitor / Validate performance of each critical step related to production risk, by direct oversight in the field, by work group supervision. Identify sensitive panels/equipment

- Discuss protected pathways and equipment

Post-Job Critique Considerations

The 5 Key Questions

What are the Critical Steps in this task?

What are the Error Likely Situations?

What is the Worst Thing that can go wrong?

What Defenses are we relying upon?

What actions will assure proper Configuration Control?

Comment line:



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0085	Perform Tech Eval - AF23 retest reqmts
Work center:	E-ESOS2	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/23/2010	Finish: 04/24/2010
Planned Hours:	2.0	
Actual Dates:	Start: 04/23/2010	Finish:04/24/2010
Actual Hours:	0.000	

Description of Work:

Perform Tech Eval - AF23 retest regmts ion>

loaded for NUF3S by nurbs

Retest requirements for AF23 following 22 and 24 Aux Feed Water buried piping System Pressure Testing Technical Evaluation Template

Document Number: 60089871 / 20459689

Title: Retest requirements for AF23 following 22 and 24 Aux Feed Water buried piping System Pressure Testing

Reason For Evaluation / Scope:

The purpose of this evaluation is to determine of there are any retest requirements for the 22AF23 and 24AF23 following manual closure in support of the ASME XI System Pressure Test for the 22 and 24 Aux Feed Water buried piping

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Detailed Evaluation:

The AF23 stop check valves will be manually held closed in support of performing an ASME XI (ISI) required Periodic System Pressure Test of the buried sections of the 22 and 24 Aux Feed Water piping. This test is not normally performed on line.

The AF23 valves are 4" Edward Valve Co. stop check valves. These are a Univalve angle body design. This design is essentially a globe valve with the stem not connected to the valve plug. With the valve stem inserted by the manual handwheel, the plug is held to the seat and will prevent forward (and reverse) flow. With the valve stem retracted the plug can lift to allow forward flow, or fall to prevent reverse flow. The stem is a one piece design, and incorporates and integral backseat.

The AF23 valves are Nuclear Class 2 Seismic 1. This valve and the piping downstream fall into Piping Schedule SPS 16A.

The AF 23 valves have a safety functions in both the open and closed directions. AF23 is a containment isolation valve but is not subject to Appendix J Type C testing, or leakage testing in the reverse direction. Full forward flow IST testing is only performed during Cold Shutdowns and, at a minimum, each refueling outage by S2.OP-ST.AF-0005. Reverse flow IST testing is performed quarterly in modes 1 thru 3 by S2.OP-ST.AF-0006.

Operating guidance provided by Edward Valve in VTD 316527 page 17 of 17 bullets 6, 7 and 10 should be followed: a minimum of three impacts (with the impactor handwheel) is required to properly close the valve, or a handwheel rim-pull of 198 lbs (98 lb push - pull). Thirteen handwheel turns to full close or full open is expected. Minimum seating torque = 155 ft-lb and Maximum seating torque = 385 ft-lb.

Closing these stop check valves manually (as designed) does not constitute maintenance, therefore the PMT requirements of MA-AA-716-012 Attachment 3 would not apply. Manipulation of valves in support of normal plan operation or testing also does not require performance of ASME OM (IST) surveillance testing to prove operational readiness.

Forward flow of the AF23 valves using discharge of the Aux Feed pumps generates approximately 4000 lb of force to unseat the valve plug, based 1300 psig discharge pressure during full flow testing for both the motor drive and steam driven pumps and a 2.0 inch port diameter.

However, use of the manual isolation feature of the AF23 valves is not routine. Performing a partial forward flow test after re-opening the AF23 valves would validate without question that they remain capable of their full forward flow safety function.

The post maintenance partial forward flow test would be accomplished by relaxing the closing force on the handwheel and observing a pressure reduction to BF pressure. Since the fluid is non-compressible, the amount introduced into the BF piping would be on the order of ounces. This amount is negligible compared to the mass flow rate of the BF system and will have no impact on reactivity.

Conclusions / Findings:

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No IST operational readiness testing of the AF23 stop check valves is required after retracting the valve stem. A partial forward flow test, if feasible or at the first opportunity would validate readiness.

References: ASME OMb Code-2003 Addenda to ASME OM Code 2001 for Operation and Maintenance of Nuclear Power Plants, IST-A and IST-C. MA-AA-716-012 Post Maintenance Testing S2.OP-ST.AF-0005(Q)- Rev. 16 IST AF Valves Modes 4-6 S2.OP-ST.AF-0006(Q)- Rev. 12 IST AF Valves AF23 valves: VTD 316527 - Forged Steel Univalve Globe Stop Check Valve Figure D36268T1 VTD 316529 - Design Report for Mark F-88 VTD 316529 - Design Report for Mark F-88 VTD 316530 - Seismic Report Size 4 Fig D36268T1 VTD 316826 - Code Edition / Addenda Material Reconciliation VTD 121141 - 4" 4306TY Weld End Detail SPEC S-C-1979-DSP-6281 Specification for Steel Globe, Gate and Check Valves 2 1/2" and larger

Preparer: Frank Szanyi Date: 4/22/2010 Independent Review: R. Swartzwelder Date: 4/23/2010 Approved: Date:

Comment line:



Order:	60089871	ASME SEC XI AUX Feed Water Pressure		
Test		Admie ded Al AdA recu Watch riessui		
Operation: PRESSURE	0090	S2AF HYDRO / VT-2 EXAM AT		
Work center:	C-OSNNDE	NNUC		
Status:				
Number of People:	1			
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011		
Planned Hours:	8.0			
Actual Dates:	Start:	Finish:		
Actual Hours:	0.000			
Description of Work:				
S2AF HYDRO / VT-2	2 EXAM AT PRESSURE	1		

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124) NDE SUPT REQUIRED				
1)PROPOSED WORK PLAN: PROVIDE NDE SUPT AS REQUIRED TO SUPPORT MAINTENANCE ACTIVITIES				
Visual Examination	Visual Examination while the system was pressurized.			

10 minute hold prior to commencing the exam.

ER-AA-330-001 PRC 000 00 PRT:



Description: SECTION XI PRESSURE TESTING **Control key:** 3

Comment line:



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0110	POST S2AF HYDRO / RESTORATION
Work center:	S-MM06	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011
Planned Hours:	1	
Actual Dates:	Start:	Finish:
Actual Hours:	0	

Description of Work:

POST S2AF HYDRO / RESTORATION

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)

PMT- REQ'D TESTING TO BE DETERMINED BASED ON EXTENT OF REPAIRS: VERIFY PROPER OPERATION/INDICATION PER PLANT CONDITIONS.

RETURN ANY M&TE, RIGGING AND/OR POWER TOOLS WHICH WERE ISSUED FOR "MULTI-PERSON" USE TO THE APPLICABLE TOOL ROOM.

VERIFY EQUIPMENT/COMPONENTS DISTURBED DURING PERFORMANCE OF THIS CM HAVE BEEN RETURNED TO PROPER PLANT CONFIGURATION.

VERIFY READINGS ARE CONSISTENT WITH CURRENT PLANT CONDITIONS.

IF THE FUNCTIONAL LOCATION HAS FAILED THE INSERVICE THEN INITIATE A NOTIFICATION TO PERFORM A REWORK.

PRT: MA-AA-716-012 PRC 000 00



Description: POST MAINTENANCE TESTING **Control key:** 3

Comment line:

,

PSEG Nuclear LLC

Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure		
Operation:	0120	POST S2AF HYDRO / SYS RESTORATION		
Work center:	S-OSHF	NNUC		
Status:				
Number of People:	1			
Scheduled Dates:	Start: 04/15/2011	Finish: 04/15/2011		
Planned Hours:	2			
Actual Dates:	Start:	Finish:		
Actual Hours:	0			
Description of Work:				
POST S2AF HYDRO	POST S2AF HYDRO / SYS RESTORATION			
* * * * * * * * * * * * * * * * * * * *				

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)

OPS TO VERIFY PROPER INSERVICE OPERATION AND INDICATION AS PER PLANT CONDITIONS.

Comment line:



Order: Test	60089871		ASME SEC XI AUX Feed Water Press	
Operation: TEST	0130		S2AF	HYDRO: REMOVE TP&L AFTER
Work center:	S-MEO	9	NNUC	
Status:				
Number of People:	2			
Scheduled Dates:	Start:	04/18/2011	Finish:	04/18/2011
Planned Hours:		4		
Actual Dates:	Start:		Finish:	
Actual Hours:		0		
Description of Work	:			
S2AF HYDRO: REM	OVE TP	&L AFTER TES	г	
REMOVE TP&L AFT	REMOVE TP&L AFTER FIELD WORK UNDER ORDER COMPLETE			
EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)				
PRT: SA-AA-129-2118 PRC 000 00 Description: GENERAL GUIDELINES FOR TEMPORARY POWER (Control key: 3				
PRT: ELEC TPI Description: Control key: 3	Description:			
PRT: ELEC TPI Description: Control key: 1	NL OE18	3863 OED 000	00	



PRT: SPEC TPNL OE17738 OED 000 00 **Description:** Control key: 1

PRT: SA-SA-129-2118 PRC 000 00 Description: GENERAL GUIDELINES FOR TEMPORARY POWER (Control key: 3

Comment line:

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.



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation: DE-MOBILIZATION	0140	S2AF HYDRO: POST-WORK
Work center:	S-MM06	NNUC
Status:		
Number of People:	2	
Scheduled Dates:	Start: 04/18/2011	Finish: 04/18/2011
Planned Hours:	4	
Actual Dates:	Start:	Finish:
Actual Hours:	0	

Description of Work:

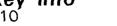
S2AF HYDRO: POST-WORK DE-MOBILIZATION

DEMOBILIZE WORK AREA. INSPECT AND ENSURE THAT ALL TOOLS AND EQUIPMENT HAVE BEEN REMOVED FROM WORK AREA. LEAVE AREA CLEANER THAN AS FOUND.

EQUIPMENT LOCATION: SALEM U2 OUTER PEN, NEAR CAN WALL LOWER AREA (22AF124 & 24AF124)

PRT: SA-AA-0301 PRC 000 00 Description: PSEG NUCLEAR INDUSTRIAL SAFETY POCKET GU Control key: 3

Comment line:





Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0150	Prepare 50.59 forms
Work center:	S-EDR02	NNUC
Status:		
Number of People:	0	
Scheduled Dates:	Start: 04/22/2010	Finish: 04/22/2010
Planned Hours:	0.0	
Actual Dates:	Start: 04/22/2010	Finish:04/22/2010
Actual Hours:	0.000	

Description of Work:

Prepare 50.59 forms

.

Order 000060089871 Operation 0150 Long text ********** 50.59 REVIEW COVERSHEET FORM LS-AA-104-1001 Revision 2 Page 1 of 1 Station/Unit(s): Salem Unit 2

Activity/Document Number: 60089871 / S2010-087 Revision Number: 0

Title: System Pressure Test for Unit 2, buried section of Auxiliary Feed-water System

NOTE: For 50.59 Evaluations, information on this form will provide the basis for preparing the biennial summary report submitted to the NRC in accordance with the requirements of 10 CFR 50.59(d)(2).

Description of Activity: (Provide a brief, concise description of what the proposed activity involves.)

09/21/2010



The proposed activity is to perform an ASME Section XI System Pressure Test for the buried pipe portion of the Auxiliary Feedwater (AFW) System. The test will be performed IAW approved plant procedures for pressure testing of Nuclear Class 2 and 3 components and systems. The evolution will isolate one AFW flow path to one steam generator at a time during the implementation of a test. The applicable Technical Specification Action Statement will be entered.

Reason for Activity:

(Discuss why the proposed activity is being performed.) Notification 20459689 was initiated to document a missed Technical Specification Surveillance for underground sections of the No. 22 and No. 24 AFW lines. Procedures ER-AA-330-001 and OU-AA-335-015 require ASME Section XI Pressure Testing for the affected sections of AFW piping.

Effect of Activity:

(Discuss how the activity impacts plant operations, design bases, or safety analyses described in the UFSAR.)

In order to perform the required testing, the section of AFW piping to be tested must be isolated. The isolation will take place between the associated AF21 supply valve and AF23 containment isolation stop-check valve, by closing manual valves AF22 and AF86. This will cause one motor-driven AFW pump and the turbine-driven AFW pump to be considered inoperable. The inoperable motor-driven AFW pump will only able to supply feedwater to 1 of 2 required steam generators. The inoperable turbine-driven AFW pump will only able to supply feedwater to 3 of 4 required steam generators. This action is governed by Technical Specification 3.7.1.2 Action b, which states that with two AFW pumps inoperable, the plant must be in Hot Standby within 6 hours and Hot Shutdown within the following 6 hours.

The system pressure test will pressurize the affected section of piping to the normal operating pressure of 1195 PSIG plus 10% or 1315 PSIG. The affected sections of piping are applicable to Piping Schedule SPS54E, which has a maximum design pressure rating of 1950 PSIG. Therefore, the value to which the system will be pressurized is within the design of the system.

Summary of Conclusion for the Activity's 50.59 Review:

(Provide justification for the conclusion, including sufficient detail to recognize and understand the essential arguments leading to the conclusion. Provide more than a simple statement that a 50.59 Screening, 50.59 Evaluation, or a License Amendment Request, as applicable, is not required.)

The proposed activity is a system pressure test for two sections of AFW piping. Pressure testing within the design basis of the AFW system does not involve a change that adversely affects an UFSAR described design function. No procedure changes are required. There is no change to any evaluation methodologies. The proposed activity is considered a test, however, the test is performed within the reference bounds of the AFW system. No changes are required to the Technical Specifications or the Operating License. Therefore, no 50.59 evaluation is required.

Attachments:

Attach all 50.59 Review forms completed, as appropriate.



(NOTE: if both a Screening and Evaluation are completed, no Screening No. is required.)

Forms Attached: (Check all that apply.) 1 Applicability Review

1 50.59 Screening 50.59 Screening No. 0 S2010-087 Rev. 0 50.59 Evaluation 50.59 Evaluation No. Rev.

50.59 APPLICABILITY REVIEW FORM LS-AA-104-1002

Address the questions below for all aspects of the Activity. If the answer is yes for any portion of the Activity, apply the identified process(es) to that portion of the Activity. Note that it is not unusual to have more than one process apply to a given Activity.

See Section 4 of the Resource Manual (RM) for additional guidance.

Ι.

Does the proposed Activity involve a change:

1. **Technical Specifications or Operating License** (10CFR50.90)? 1 NO 0 YES See Section 4.2.1.1 of the RM

2. Conditions of License Quality Assurance program (10CFR50.54(a))? Security Plan (10CFR50.54(p))? Emergency Plan (10CFR50.54(q))? 1 NO 0 YES See Section 4.2.1.2 of the RM 1 NO 0 YES

1 NO 0 YES

3. IST Program Plan (10CFR50.55a(f))? ISI Program Plan (10CFR50.55a(g))? 1 NO 0 YES See Section 4.2.1.3 of the RM

4.

Codes and Standards

1 NO 0 YES

NO 0 YES

ECCS Acceptance Criteria (10CFR50.46)? 1



See Section 4.2.1.4 of the RM 5. Specific Exemptions (10CFR50.12)? 1 NO 0 YES See Section 4.2.1.5 of the RM Radiation Protection Program (10CFR20)? 1 6. NO 0 YES See Section 4.2.1.6 of the RM 7. Fire Protection Program (applicable UFSAR or operating license condition)? 1 NO 0 YES See Section 4.2.1.7 of the RM 8. Programs controlled by the Operating License or the Technical Specifications (such as the ODCM). 1 NO 0 YES See Section 4.2.1.7 of the RM 9. Environmental Protection Program 1 NO 0 YES See Section 4.2.1.7 of the RM 10. Other programs controlled by other regulations. 1 NO 0 YES See Section 4.2.1 of the RM H. Does the proposed Activity involve maintenance which restores SSCs to their original condition or involve a temporary alteration supporting maintenance that will be in effect during at-power operations for 90 days or less? 1 NO 0 YES See Section 4.2.2 of the RM Ш. Does the proposed Activity involve a change to the: UFSAR (including documents incorporated by 1. reference) that is excluded from the requirement to perform a 50.59 Review by NEI 96 07 or NEI 98 03? 1 NO 0 YES See Section 4.2.3 of the RM 2. Managerial or administrative procedures governing the conduct of facility operations (subject to the control of 10CFR50, Appendix B) 1 NO 0 YES See Section 4.2.4 of the RM Procedures for performing maintenance activities (subject to 10CFR50, Appendix B)? 1 NO 0 YES See Section 4.2.4 of the RM Regulatory commitment not covered by another 4. regulation based change process (see NEI 99-04)? 1 NO 0 YES

See Section 4.2.3/4.2.4 of the RM

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IV. Does the proposed Activity involve a change to the Independent Spent Fuel Storage Installation (ISFSI) (subject to control by 10 CFR 72.48) 1 NO 0 YES

See Section 4.2.6 of the RM

Check one of the following:

O If all aspects of the Activity are controlled by one or more of the above processes, then a 50.59 Screening is not required and the Activity may be implemented in accordance with its governing procedure.

1 If any portion of the Activity is not controlled by one or more of the above processes, then process a 50.59 Screening for the portion not covered by any of the above processes. The remaining portion of the activity should be implemented in accordance with its governing procedure.

Signoff:

1 50.59 Screener/0 50.59 Evaluator: Brian Syvertson Sign: 60089871 Op. Date See SAP (Check One) (Print name) (Signature) 50.59 SCREENING FORM LS-AA-104-1003 **Revision** 1 Page 1 of 1 50.59 Screening No. S2010-087 Rev. No. 0

Activity/Document Number: 60089871 Revision Number: 0

I. 50.59 Screening Questions (Check correct response and provide separate written response providing the basis for the answer to each question)(See Section 5 of the Resource Manual (RM) for additional guidance):

1. Does the proposed Activity involve a change to an SSC that adversely affects an UFSAR described design function? (See Section 5.2.2.1 of the RM)

The Auxiliary Feedwater (AFW) System serves as a backup for supplying feedwater to the secondary side of the steam generators at times when the Main Feedwater System is not available (during start-up, cool-down and shut-down). The AFW System is relied upon to prevent core damage and system over pressurization in the event of accidents such as a loss of normal feedwater or a major secondary system pipe rupture, and to provide a means for plant cooldown.

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Each unit has its own, independent Auxiliary Feed-water System. The system consists of one turbine-driven and two motor-driven AFW pumps, one AFST and associated piping. Each motor-driven pump discharges to two steam generators with a normally isolated (21 and 22AF923 valves) cross-connect line joining the motor-driven pump discharge headers. The turbine-driven pump feeds all four steam generators.

The proposed activity is to perform a pressure test on buried section of AFW pipe. This will require the isolation of one section of AFW piping at a time. The isolation will be achieved by closing valves, AF22 supply valve, AF23 containment isolation stop-check valve, and valve AF86. This will cause one motor-driven AFW pump and the turbine-driven AFW pump to be considered inoperable. The inoperable motor-driven AFW pump will only be able to supply feedwater to 1 of the 2 steam generators normally supplied by this pump. The inoperable turbine-driven AFW pump will only able to supply feedwater to 3 of 4 required steam generators. This action is governed by Technical Specification 3.7.1.2.b, which states that with two AFW pumps inoperable, the plant must be in Hot Standby with 6 hours and Hot Shutdown within the following 6 hours.

The sections of piping being tested is governed by Piping Specification SPS54E, which has normal operating and design pressure rating of 1195 PSIG and 1950 PSIG respectively. The system pressure test will pressurize the affected sections of piping to 1315 PSIG. Therefore the test pressure is well below the system design pressure. Therefore, the proposed activity does not involve a change that adversely affects an UFSAR described design function.

1 NO

2. Does the proposed Activity involve a change to a procedure that adversely affects how UFSAR described SSC design functions are performed or controlled? (See Section 5.2.2.2 of the RM)

The proposed activity will be implemented IAW approved station procedures. This activity does not require a change to any existing procedures. Since this activity has not been performed previously a new procedure or a special test procedure will be created to perform only this activity. Therefore, this activity does not involve a change to a procedure that adversely affects how UFSAR described SSC design functions are performed or controlled.

0 YES

1 NO

3. Does the proposed Activity involve an adverse change to an element of a UFSAR described evaluation methodology, or use of an alternative evaluation methodology, that is used in establishing the design bases or used in the safety analyses? (See Section 5.2.2.3 of the RM)

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The proposed activity is a system pressure test of the buried section of AFW system. This activity does not create or alter any evaluation methodologies described in the UFSAR. Therefore, the proposed activity does not involve an adverse change to an element of a UFSAR described evaluation methodology, or use of an alternative evaluation methodology, that is used in establishing the design bases or used in the safety analyses.

0 YES

0 YES

0 YES

1 NO

4. Does the proposed Activity involve a test or experiment not described in the UFSAR, where an SSC is utilized or controlled in a manner that is outside the reference bounds of the design for that SSC or is inconsistent with analyses or descriptions in the UFSAR? (See Section 5.2.2.4 of the RM)

The proposed activity does involve a test of the AFW system buried section piping. However, the test is being implement IAW approved plant procedures. The portion of AFW system will be pressurized to 1315 PSIG. The system design pressure rating is 1950 PSIG. The test pressure is well below the system design pressure. Therefore, the proposed activity does not involve a test or experiment not described in the UFSAR, where an SSC is utilized or controlled in a manner that is outside the reference bounds of the design for that SSC or is inconsistent with analyses or descriptions in the UFSAR.

1 NO

5. Does the proposed Activity require a change in the Technical Specifications or Operating License? (See Section 5.2.2.5 of the RM)

Technical Specification 3.7.1.2 Action b will be entered during the implementation of the system pressure test. This required action statement will be followed as written and no changes to the Technical Specifications are required as a result of this activity. Therefore, the proposed activity does not require a change in the Technical Specifications or Operating License.

1 NO

II. List the documents (e.g., UFSAR, Technical Specifications, other licensing basis, technical, commitments, etc.) reviewed, including sections numbers where relevant information was found (if not identified in the response to each question).

UFSAR 10.4.7.2 - AUXILIARY FEEDWATER SYSTEM UFSAR 3.9.4: INSERVICE TESTING PUMPS AND VALVES UFSAR 15.2.8, LOSS OF NORMAL FEEDWATER UFSAR 15.2.9, LOSS OF OFFSITE POWER TO STATION AUXILIARIES (LOP) UFSAR 15.3.1, LOSS OF REACTOR COOLANT FROM SMALL RUPTURED PIPES (SBLOCA)

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UFSAR 15.4.1, MAJOR REACTOR COOLANT SYSTEM PIPE RUPTURES (LBLOCA) UFSAR 15.4.2, MAJOR SECONDARY SYSTEM PIPE RUPTURE (MSLB) UFSAR 15.4.3, MAJOR RUPTURE OF MAIN FEEDWATER LINE (FWLB) UFSAR 15.4.4, STEAM GENERATOR TUBE RUPTURE (SGTR)

Technical Specification 3.3.2.1 - ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION Technical Specification 3.3.3.7 - ACCIDENT MONITORING INSTRUMENTATION Technical Specification 3.7.1.2 - AUXILIARY FEEDWATER SYSTEM Technical Specification 3.7.1.3 - AUXILIARY FEED STORAGE TANK

ASME Section XI article IWA-5000 Procedure: ER-AA-330-001 Procedure: OU-AA-335-015 Procedure: SC.MD-GP.ZZ-0035 Drawing: 205336 REV 49

III. Select the appropriate conditions:

1 If all questions are answered NO, then complete the 50.59 Screening and implement the Activity per the applicable governing procedure.

O If question 1, 2, 3, or 4 is answered YES and question 5 is answered NO, then a 50.59 Evaluation shall be performed.

O If questions 1, 2, 3, and 4 are answered NO and question 5 is answered YES, then a License Amendment is required prior to implementation of the Activity.

O If question 5 is answered YES for any portion of an Activity, then a License Amendment is required prior to implementation of that portion of the Activity. In addition, if question 1, 2, 3, or 4 is answered YES for the remaining portions of the Activity, then a 50.59 Evaluation shall be performed for the remaining portions of the Activity.

IV. Screening Signoffs:

50.59 Screener:Brian Syvertson / S. Bhardwaj Sign: 60089871 OP. Date 4/22/10 (Print name) (Signature)

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50.59 Reviewer	: Michael	Crawford	Sign:	60089871	Op.	Date
4/22/10	(Print name))	(Signature)			
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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure		
Operation:	0160	Review 50.50 forms		
Work center:	S-EDM03	NNUC		
Status:				
Number of People:	0			
Scheduled Dates:	Start: 04/22/2010	Finish: 04/22/2010		
Planned Hours:	0.0			
Actual Dates:	Start: 04/22/2010	Finish:04/22/2010		
Actual Hours:	0.000			
Description of Worl	(:			
Comment line:				

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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure	
Operation:	0170	Prepare Technical Evaluation ASME Pressu	
Work center:	S-ED	NNUC	
Status:			
Number of People:	1		
Scheduled Dates:	Start: 04/23/2010	Finish: 04/24/2010	
Planned Hours:	16.0		
Actual Dates:	Start: 04/23/2010	Finish:04/24/2010	
Actual Hours:	0.000		
Description of Work:			
Prepare Technical Evaluation ASME Pressure Test			
**************Long Text Object Identification************************************			

Comment line:

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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0180	IDV Review Technical Evaluation
Work center:	S-ED	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/23/2010	Finish: 04/24/2010
Planned Hours:	8.0	
Actual Dates:	Start: 04/23/2010	Finish:04/24/2010
Actual Hours:	0.000	
Description of Work:	:	
Comment line:		



Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0190	SME Review Technical Evaluation
Work center:	S-ED	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/24/2010	Finish: 04/24/2010
Planned Hours:	8.0	
Actual Dates:	Start: 04/24/2010	Finish:04/24/2010
Actual Hours:	0.000	
Description of Work	::	
Comment line:		·

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Order: Test	60089871	ASME SEC XI AUX Feed Water Pressure
Operation:	0200	Approve Technical Evaluation
Work center:	S-ED	NNUC
Status:		
Number of People:	1	
Scheduled Dates:	Start: 04/25/2010	Finish: 04/25/2010
Planned Hours:	4.0	
Actual Dates:	Start: 04/25/2010	Finish:04/25/2010
Actual Hours:	0.000	
Description of Work:		

Comment line:

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