Procedure No. Vogtle Electric Generating Plant 17006-1 NUCLEAR OPERATIONS Revision No. 11 Unit 1 Georgia Power Page No. of 41 05-81-90 WINDOWS ADB POT COI PO 31 ANNUNCIATOR RESPONSE PROCEDURES FOR ALB 06 ON PANEL 1A2 ON MCD PURPOSE These procedures describe alarm conditions annunciated on Annunciator Light Board (ALB) 06 located on the Main Control Board. They provide guidance for specific operator responses to given alarms and may not be appropriate for all plant conditions. OPCP QMCS QMCB A2 QMCB Al OMCB QMC8 QMCB QEAB(Section 1A) QEAB (18) 00000 QPRP QUEP DMDF TOIPE QHVC 9202200364 920116 PDR ADDCK 05000424 PDR PDR

ALB 06

	(1)	(2)	(3)	(4)	(5)	(6)
٨	RHR PMP 1 DISCH HI PRESS	PDP IN LOCAL CONTROL	ACCUM TANK 1 BI/LO LEVEL (RCS LOW LEVEL)	ACCUM TANK 1 HI/LO PRESS	ACCUM TANK 1 ISO VLV 8808A NOT PULLY OPEN	PRESS ALERT
3	RHR PMP 2 DISCH HI PRESS		ACCUM TANK 2 HI/LO LEVEL	ACCUM TANK 2 HI/LO PRESS	ACCUM TANK 2 ISO VLT 8808B NOT FULLY OPEN	CNMT HI-2 PRESS ALERT
C	REER PHP OVERLOAD TRIP		ACCUM TANK 3 BI/LO LEVE	ACCUM TANK 3 HI/LO PRESS	ACCUM TANK 3 ISO VLV 8808C NOT FULLY OPEN	CNMT HI-3 PRESS ALERT
			ACCUM TANK 4 HI/LO LEVEL	ACCUM TANK 4 BI/LO PRESS	ACCUM TANK 4 ISO VLV 8808D NOT FULLY OPEN	CNMT SPRAY ACTUATION
	Sulf. Acousty in construction a national support	- AND THE RESIDENCE ASSESSMENT AS	RUST TO ST PMP ISO VLV 8806 NOT FULLY OPEN	RWST LO LEVEL	RWST EMPTY LEVEL	CNMT ISC PHASE A ACTUATION
			RWST HI LEVEL	RWST LO-LO LEVEL	RWST LU-LO 2 LEVEL	SI PMP OVERLOAD TRIP

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^{*} INSTALLED/CONNECTED/OPERATIONAL ONLY DURING RCS MID-LOOP AND DRAIN DOWN LEVEL OPERATION

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OCEDURE NO.		REVISION	PAGE NO.			
VEGP	17006-1	11	5 of 41			
			UTNIDOU ACI			
	ORIGIN	SET.OINT	WINDOW A01			
	- 1-PT-0614	576 psig	RHR PMP 1 DISCH HI PRESS			
1.0	PROBABLE C	AUSE				
	1. High R	eactor Coolant System	(RCS) pressure.			
	2. 1-FV-0	610 and/or 1-HV-8809A n	misalignment.			
2.0	AUTOMATIC					
	NONE					
3.0	INITIAL OPERATOR ACTIONS					
3.0	NONE STATEMENT ACTIONS					
		OPERATOR ACTIONS				
4.0	CONTRACTOR OF STREET,	OPERATOR ACTIONS				
	1. If al press	arm is due to RCS pressure.	sure high, REDUCE RCS			
		E a flowpath available 8809A.	via 1-FV-0610 and/or			
	press servi	sidual Heat Removal (Ri ure cannot be reduced, ce and STOP RHR Pump A Removal System".	PLACE Train B in			
		R Pump A was scopped, 1 of alarm.	DETERMINE and CORRECT			
	5. REFER 3.5.3	to Technical Specification	ations 3.5.2 and			
5.0	COMPENSATO	RY OPERATOR ACTIONS				
	NONE					

REFERENCES: 1X4DB122, P.L.S.

ROCEDURE NO.		REVISION	PAGE NO.				
VEGP	17006-1	11	6 of 41				
			The section of Contract to Con				
	ORIGIN	SETPOINT	WINDOW A02				
	Accessorian and the second	DAGAE OATE	PDP				
	1-SHC-0459B	N/A	IN LOCAL CONTROL				
1.0	PROBABLE CAL	JSE					
	Local Contro	ol 1-SHC-0459B in MAN	position.				
2.0	AUTOMATIC ACTIONS						
	NONE						
3.0	INITIAL OPER	RATOR ACTIONS					
	NONE						
4.0	SUBSEQUENT (OPERATOR ACTIONS					
	desired, DIS	eration of Positive Di SPATCH an operator to return Control Switch	splacement Pump is not Auxiliary Building, to AUTO position.				
5.0	COMPENSATORY OPERATOR ACTIONS						
	NONE						

PROCEDURE NO.

REFERENCES: 1X4DB116-1, 1X6AU01-265

ACCUM TANK 1 HI/LO LEVEL

- 1. High level:
 - a. Overfilling of Accumulator,
 - Leakage from the Reactor Coolant System (RCS) past 1-1204-U4-079.
- 2. Low level:
 - a. Open Drain or Sample Valve,
 - b. System leak.

RCS LEVEL LOW

- 1. System Leak.
- 2. Open drain or Letdown flow path.
- Draining down too fast with the Upper Internals installed.
- 4. Excessive RHR Discharge flowrate.

2.0 AUTOMATIC ACTIONS

ACCUM TANK 1 HI/LO LEVEL

NONE

RCS LOW LEVEL

NONE

^{* 1-}LT-0950 disconnected and 1-LT-11310 installed/connected/ operational only during RCS mid-loop and drain down level operation.

(Continued)

3.0 INITIAL OPERATOR ACTIONS

ACCUM TANK 1 HI/LO LEVEL

NONE

RCS LOW LEVEL

- 1. MONITOR the following RHR Pump parameters:
 - a. RHR Pump amps (ERF),
 - b. Discharge flow,
 - c. Discharge pressure.
- CHECK RCS Level Indicators 1-LI-0950, 1-LI-0957 and 1-LG-10401 (Reference PTDB-1 Tab 8.2).
- If a loss of RHR is indicated, INITIATE 18019-C, "Loss Of Residual Heat Removal".

4.0 SUBSEQUENT OPERATOR ACTIONS

ACCUM TANK 1 HI/LO LEVEL

- If filling is in progress, STOP filling.
- MONITOR Accumulator Tank 1 level on QMCB using 1-LI-0950 and 1-LI-0951.
- If Accumulator Tank 1 level is high or low and stable, RETURN level to normal per 13105-1, "Safety Injection System".
- 4. If Accumulator Tank 1 level is high and increasing, DRAIN to Refueling Water Storage Tank as required, to restore level to normal per 13105-1. "Safety Injection System".

OR

ISOLATE the Accumulator Tank from the RCS by closing 1-HV-8808A and REFER to Technical Specification 3.5.1.

- If Accumulator Tank 1 level is low and decreasing,
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE leak, and
 - c. RESTORE level to normal per 13105-1, "Safety Injection System."

WINDOW A03 (Continued)

- 6. If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.8)
- 7. REFER to Tachnical Specification 3.5.1.

RCS LOW LEVEL

- 1. If draining is in progress, STOP draining
- 2. NOTIFY the Unit Shift Supervisor.
- MONITOR RCS level on QMCB using 1-LI-0950 and 1-LI-0957, and locally using 1-LG-10401 (Reference PTDB-1 Tab 8.2).
- 4. If RCS level continues to decrease, DISPATCH an operator to locate and isolate any identified leaks.
- RESTORE RCS level to greater than 188 ft. elevation.
- If equipment failure is indicated, INITIATE maintenance as required.
- 7. REFER to Technical Specifications 3.4.1. 1 and 3.4.1.4.2.

5.0 COMPENSATORY OPERATOR ACTIONS

ACCUM TANK 1 HI/LO LEVEL

NONE

RCS LOW LEVEL

NONE

END OF SUB-PROCEDURE

REFERENCES: 1X4DB120, P.I

1X4DB120, P.L.S., 1X5DT0004, 1X4DB111, 1X4DB113 PTDB-1 Tab 8.0

- MONITOR both Accumulator Tank 1 pressure and level for changes.
- 3. If pressure is high and level is normal:
 - a. ENSURE Nitrogen Supply Valves are closed,
 - b. RESTORE pressure to normal per 13105-1, "Safety Injection System"
- 4. If pressure is high and level is high and stable, RETURN level and boron concentration to normal per 13105-1, "Safety Injection System".
- 5. If pressure is high and level is high and rising, DRAIN to Refueling Water Storage Tank, as required, to restore level to normal per 13105-1, "Safety Injection System".

WINDOW A04 (Continued)

- 6. If pressure is low and level is normal and stable:
 - a. ISOLATE the source of nitrogen leakage, if possible.
 - b. RESTORE pressure to normal.
- 7. If pressure is low and level is low and stable RETURN level to normal per 13105-1, "Safety Injection System".
- If pressure is low and level is low and falling:
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE the leak, and
 - c. RESTORE level and boron concentration to normal per 13105-1, "Safety Injection System".
- 9. If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.8)
- 10. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUE-PROCEDURE

REFERENCES:

1X4DB120, P.L.S.

REFERENCES:

1X4DB120, 1X3D-BD-D02R

PAOCEDURE NO.		REVISION	PAGE NO.
VEGP	17006-1	11	13 of 41
			WINDOW A06
	ORIGIN	SETPOINT	CNMT HI-1
	1-PT-0934B 1-PT-0935B 1-PT-0936B	3.5 psig	PRESS ALERT ADVERSE CNMT
1.0	PROBABLE CA	AUSE	Supposition and the Control of the C
	Instrument	testing or malfunction	
2.0	AUTOMATIC A	ACTIONS	
	NONE		
3.0	INITIAL OPE	ERATOR ACTIONS	
	NONE		
4.0	SUBSEQUENT	GPERATOR ACTIONS	
	1. CHECK	Containment pressure i	ndications.
		nipment failure is indi	cated, INITIATE
	3. REFER	to Technical Specifica	tion 3.3.2.
5.0	COMPENSATOR	RY OPERATOR ACTIONS	
	NONE		

REFERENCES: 1X4DB131, 1X6AA02-232, P.L.S., 1X6AU01-178

ROCEDURE NO.		REVISK)N	PAGE NO.		
VEGP	17006-1		11	14 of 41		
	ORIGIN		SETPOINT	WINDOW B01		
	1-PT-06	1.5	ACRE ACCOMMENSATION AND A	RHR PMP 2		
1.0			576 psig	DISCH HI PRESS		
1.0	AND DESCRIPTION OF PERSONS AND	E CAUSE				
	1. Hi	gh Reactor	r Coolant System	(RCS) pressure.		
	2. 1-	FV-0611 as	nd/or 1-HV-8809B	misalignment.		
2.0	AUTOMAT	IC ACTIONS	3			
	NONE					
3.0	INITIAL	OPERATOR	ACTIONS			
	NONE					
4.0	SUBSEQUENT OPERATOR ACTIONS					
		alarm is essure.	due to RCS press	ure high, REDUCE RCS		
		SURE a flo d/or l-HV-	owpath is availab	le via 1-FV-0511		
	pr	essure car rvice and	anot be reduced,	R) Pump B discharge PLACE Train A in per 13011-1, "Residual		
	4. If	RHR Pump use of ala	B was stopped, D	ETERMINE and CORRECT		
	5. RE 3.	FER to Tec 5.3.1.	chnical Specifica	tions 3.5.2 and		
5.0	COMPENS	ATORY OPER	RATOR ACTIONS			
	NONE					

PROCEDURE NO.

REFERENCES: 1X4DB122, P.L.S.

OCEDURE NO.			REVISION	PAGE NO.		
VEGP	170	06-1	11	15 of 41		
	0.00		CHEROTAM	WINDOW B03		
	ORI	GTN	SETPOINT	ACCUM TANK 2		
	0	T-0952 R T-0953	Hi: 647 Low: 367	HI/LO LEVEL		
1.0	PRO	PROBABLE CAUSE				
	1.	High	Level:			
		b.	Overfilling of Accumulato Leakage from the Reactor past 1-1204-U4-080.	or, Coolant System (RC		
	2.	Low L	evel:			
		a. b.	Open Drain or Sample Valv System leak.	e,		
2.0	AUT	OMATIC	ACTIONS			
	NON	E				
3.0	INI	TIAL OP	ERATOR ACTIONS			

NONE

WINDOW B03 (Continued)

4.0 SUBSEQUENT OPERATOR ACTIONS

- 1. If filling is in progress, STOP filling.
- MONITOR Accumulator Tank 2 level on QMCB using 1-LI-0952 and 1-LI-0953.
- If Accumulator Tank 2 level is high or low and stable, RETURN level to normal per 13105-1, "Safety Injection System".
- 4. If Accumulator Tank 2 level is high and increasing, DRAIN to Refueling Water Storage Tank as required, to restore level to normal per 13105-1, "Safety Injection System".

OR

ISOLATE the Accumulator Tank from the RCS by closing 1-HV-8808B and REFER to Technical Specification 3.5.1.

- 5. If Accumulator Tank 2 level is low and decreasing:
 - a. ENSURE sample and drain lines are closed, or

b. LOCATE and ISOLATE leak, and

- c. RESTORE level to normal per 13105-1, "Safety Injection System."
- 6. If addition is equal to, or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.8)
- 7. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

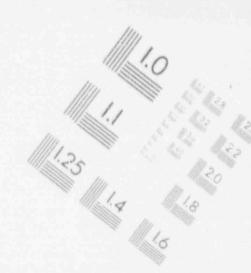
END OF SUB-PROCEDURE

REFERENCES: 1X4DB120, P.L.S., 1X5DT0038

drain to Refueling Water Storage Tank (RWST), as required, to restore level to normal per 13105-1,

"Safety Injection System."

IMAGE EVALUATION TEST TARGET (MT-3)

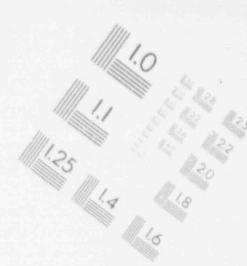




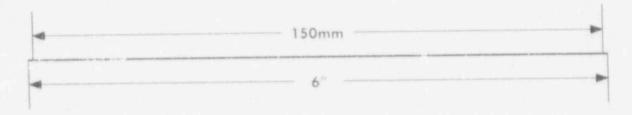
150mm

QI BIN SZINI

IMAGE EVALUATION TEST TARGET (MT-3)





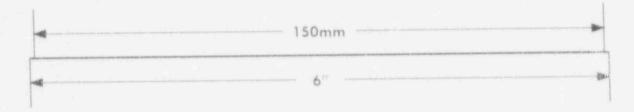


91 8 WILLIAM GZ.

IMAGE EVALUATION TEST TARGET (MT-3)







81 81 SEIM

91 BIND CZ

WINDOW B04 (Continued)

- 6. If pressure is low and level is normal and stable:
 - a. ISOLATE the source of nitrogen leakage, if possible,
 - b. RESTORE pressure to normal.
- If pressure is low and level is low and stable, return level to normal per 13105-1, "Safety Injection System".
- 8. If pressure is low and level is low and falling:
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE the leak, and
 - c. RESTORE level and boron concentration to normal per 13105-1, "Safety Injection System."
- 9. If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.8)
- 10. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES:

1X4DB120, P.L.S.

REFERENCES:

NONE

1X4DB120, 1X3D-BC-D02S

PROCEDURE NO.	REVI	SION	PAGE NO.
VEGP	17006-1	11	20 of 41
	ORIGIN	SETPOINT	WINDOW BO6
		OC LEGINA	CNMT HI-2
	1-PT-0934C 1-PT-0935C 1-PT-0936C	14.5 psig	PRESS ALERT
1.0	PROBABLE CAUSE		Management of the control of the con
	Instrument test	ing or malfunction.	
2.0	AUTOMATIC ACTIO	DNS	
	NONE		
3.0	INITIAL OPERATO	OR ACTIONS	
	NONE		
4.0	SUBSEQUENT OPER	LATOR ACTIONS	
	1. CHECK Cont	ainment pressure ind	dications.
	2. If equipme maintenance	ent failure is indica ce as required.	ated, INITIATE
	3. REFER to T	echnical Specificati	lon 3.3.2.
5.0	COMPENSATORY OF	PERATOR ACTIONS	
	NONE		

REFERENCES: 1X4DB131, 1X6AA02-232, P.L.S., 1X6AU01-178

ROCEDURE NO.		REVISION	PAGE NO /			
VEGP	17006-1	11	21 of 41			
			WINDOW CO1			
	ORIGIN	SETPOINT	RHR PMP			
	RHR pump n breakers.	notor Not Applicable	OVERLOAD TRIP			
1.0	PROBABLE C	CAUSE				
		ual Heat Removal (RHR) Purrent.	ump Motor trip due to			
	2. RHR P	ump Breaker Test Switch p	placed in TRIP			
2.0	AUTOMATIC	ACTIONS				
	RHR Pump B	reaker trips.				
3.0	INITIAL OPERATOR ACTIONS					
	If RHR is 18019-C, "	Operating in Modes 4, 5 o Loss Of Residual Heat Ren	or 6, INITIATE			
4.0	SUBSEQUENT	OPERATOR ACTIONS				
	1. DETER	MINE which RHR Pump tripp	ed.			
	2. NOTIF	Y the Unit Shift Supervis	or.			
		t restart the pump until has been investigated and				
		uipment failure is indica enance as required.	ited, INITIATE			
	5. REFER 3.5.3	to Technical Specificati	ons 3.5.2 and			
5.0	COMPENSATO	RY OPERATOR ACTIONS				

NONE

PROCEDURE NO.

REFERENCES: 1X3D-BD-E01A, 1X3D-BD-E01B

PROCEDURE NO. REVISION PACE NO. VEGP 17006-1 11 22 of 41 WINDOW CO3 ORIGIN SETPOINT ACCUM TANK 3 1-LT-0954 Hi: 64% HI/LO LEVEL OR Low: 36% 1-LT-0955 1.0 PROBABLE CAUSE High Level: Overfilling of Accumulator, Leakage from the Reactor Coolant System (RCS) past 1-1204-U4-081. 2. Low Level: a. Open Drain or Sample Valve, b. System leak. 2.0 AUTOMATIC ACTIONS NONE 3.0 INITIAL OPERATOR ACTIONS

NONE

WINDOW CO3 (Continued)

4.0 SUBSEQUENT OPERATOR ACTIONS

- 1. If filling is in progress, STOP filling.
- MONITOR Accumulator Tank 3 level on QMCB using 1-LI-0954 and 1-LI-0955.
- If Accumulator Tank 3 level is high or low and stable, RETURN level to normal per 13105-1, "Safety Injection System".
- 4. If Accumulator Tank 3 level is high and increasing, DRAIN to Refueling Water Storage Tank as required, to restore level to normal per 13105-1, "Safety Injection System".

OR

ISOLATE the Accumulator Tank from the RCS by closing 1-HV-8808C and REFER to Technical Specification 3.5.1.

- 5. If Accumulator Tank 3 level is low and decreasing:
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE leak, and
 - c. RESTORE level to normal per 13105-1, "Safety Injection System".
- 6. If addition is equal to, or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.B)
- 7. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES: 1X4DB120, P

1X4DB120, P.L.S., 2X5DT0039

CEDURE NO.			REVISION	STEWN INCOME IN COME TRANSPORTED	PAC	3E NO
VEGP	170	06-1		11		24 of 41
						WINDOW CO4
	ORI	GIN	S	ETPOINT		AND DESCRIPTION OF THE PARTY OF
	0	T-0964 R T-0965		i: 661 psi ow: 617 psi		ACCUM TANK 3 HI/LO PRESS
1.0	PRO	BABLE CAU	JSE			
	1.	High Pr	essure:			
		th	rough 1-1	204-U4-081 c	or over	lant in leakag filling, ing or open.
	2.	Low Pre	essure:			
		dr	rain line	ue to open of or system le 57 or 1-PSV-	eak,	ing sample lin
2.0	AUT	OMATIC AC	TIONS			
	NON	E				
3.0	INI	TIAL OPER	RATOR ACTI	ONS		
	NON	E				
4.0	SUB	SEQUENT C	PERATOR A	CTIONS		
	1.		licable, S cumulator.		water o	or nitrogen to
	2.	MONITOR		tor Tank 3	pressur	re and level fo
	3.	If pres	sure is h	igh and leve	el is r	normal:
		b. RE	ESTORE pre	ogen Supply ssure to not ection Syste	rmal pe	are closed, er 13105-1,
	4.	RETURN	level and		entrati	nigh and stable

If pressure is high and level is high and rising, DRAIN to Refueling Water Storage Tank, as required, to restore level to normal per 13105-1, "Safety Injection System".

5.

WINDOW CO4 (Continued)

- 6. If pressure is low and level is normal and stable:
 - a. ISOLATE the source of nitrogen leakage, if possible,
 - b. RESTORE pressure to normal.
- If pressure is low and level is low and stable, RETURN level to normal per 13105-1, "Safety Injection System".
- 8. If pressure is low and level is low and falling:
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE leak, and
 - c. RESTORE level and boron concentration to normal per 13105-1, "Safety Injection System".
- 9. If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.B)
- 10. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES:

1X4DB120, P.L.S.

REFERENCES:

1X4DB120, 1X3D-BD-D02T

PROCEDURE NO.		VISION	PAGE NO.
VEGP	17006-1	11	27 of 41
			WINDOW CO6
	ORIGIN	SETPOINT	CNMT HI-3
	1-PT-0934A 1-PT-0935A 1-PT-0936A 1-PT-0937A	21.5 psig	PRESS ALERT
1.0	PROBABLE CAUSE		
	Instrument tes	ting or malfunction	1.
2.0	AUTOMATIC ACTI	ONS	
	NONE		
3.0	INITIAL OPERAT	OR ACTIONS	
	NONE		
4.0	SUBSEQUENT OPE	RATOR ACTIONS	
	1. CHECK Con	tainment pressure in	ndications.
	2. If equipm	ent failure is indicace as required.	cated, INITIATE
	3. REFER to	Technical Specificat	ion 3.3.2.
. 5.0	COMPENSATORY O	PERATOR ACTIONS	
	NONE		

REFERENCES: 1X4DB131, 1X6AA02-232, P.L.L., 1X6AU01-178

OCEDURE NO.			REVISION		PAC	PAGE NO.	
VEGP	170	06-1		11		28 of 41	
						WINDOW D03	
	ORI	GIN		SETPOINT	*	ACCUM TANK 4	
	0	T-0956 R LT-0957		Hi: 647 Low: 367		HI/LO LEVEL	
1.0	PRO	PROBABLE CAUSE					
	1.	High	Level:				
		 a. Overfilling of Accumulator, b. Leakage from the Reactor Coolant System (RCS) past 1-1204-U4-082. 					
	2.	2. Low Level:					
		a. b.					
2.0	AUTOMATIC ACTIONS						
	NON	E					
3.0	INI	INITIAL OPERATOR ACTIONS					

NONE

^{* 1-}LT-0957 and ALB-06-D03 are disconnected during RCS mid-loop and drain down level operation.

WINDOW DO3 (Continued)

SUBSEQUENT OPERATOR ACTIONS 4.0

- 1. If filling is in progress, STOP filling.
- 2. MONITOR Accumulator Tank 4 level on QMCB using 1-LI-0956 and 1-LI-0957.
- 3. If Accumulator Tank 4 level is high or low and stable, RETURN level to normal per 13105-1, "Safety Injection System".
- If Accumulator Tank 4 level is high and increasing, DRAIN to Refueling Water Storage Tank as required, to restore level to normal per 13105-1, "Safety Injection System".

OR

ISOLATE the Accumulator Tank from the RCS by closing 1-HV-8808D and REFER to Technical Specification 3.5.1.

- If Accumulator Tank 4 level is low and decreasing: 5.
 - ENSURE sample and drain lines are closed, or

Ъ.

- LOCATE and ISOLATE leak, and RESTORE level to normal per 13105-1, "Safety Injection System".
- If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Log. (Technical Specification 4.5.1.1.B)
- 7. REFER to Technical Specification 3.5.1.
- 5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES: 1X4DB120, P.L.S., 1X5DT0040

WINDOW D04 (Continued)

- 6. If pressure is low and level is normal and stable:
 - a. ISOLATE the source of nitrogen leakage, if possible,
 - b. RESTORE pressure to normal.
- If pressure is low and level is low and stable, return level to normal per 13105-1, "Safety Injection System".
- 8. If pressure is low and level is low and falling:
 - a. ENSURE sample and drain lines are closed, or
 - b. LOCATE and ISOLATE leak, and
 - c. RESTORE level and boron concentration to normal per 13105-1, "Safety Injection System".
- 9. If addition is equal to or greater than 67 gallons (approximately 7 percent indicated level), REQUEST Chemistry personnel to sample Accumulator and LOG the name of the person notified and the results in Control Room Lcg. (Technical Specification 4.5.1.1.B)
- 10. REFER to Technical Specification 3.5.1.

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES:

1X4DB120, P.L.S.

REFERENCES:

1X4DB120, 1X3D-BD-D02U

ROCEDURE NO.		REVISION PAGE NO.					
VEGP	17006-1	11	33 of 41				
	ORIGIN	SETPOINT	WINDOW DO6				
	- 2 out of 4 1-PT-0934A 1-PT-0935A 1-PT-0936A 1-PT-0937A	21.5 psig	COMT SPRAY ACTUATION				
	or both 1-HS-40010 1-HS-40011	Not Applicable					
	or both 1-HS-40004 1-HS-40005	Not Applicable					
1.0	PROBABLE CAUSE						
	1. Manual actuation of the Containment Spray System						
	 Containment HI-3 setpoint reached on 2 or more Containment pressure channels. 						
2.0	AUTOMATIC ACTIONS						
	1. Containment Spray Pumps start.						
	 Containment Spray Isolation Valves 1-HV-9001A and 1-HV-9001B open. 						
	3. Containment Spray Additive Isolation Valves 1-HV-8994A and 1-HV-8994B open.						
3.0	INITIAL OPERATOR ACTIONS						
	NOTE						
	sp	tions for a containment ray actuation are ntained in 19000-C, "E- fety Injection".					
4.0	SUBSEQUENT OPERATOR ACTIONS						
	NONE						
5.0	DMTENSATORY OPERATOR ACTIONS						
	NONE						

REFERENCES: 1X4DB131, 1X6AA02-232, P.L.S., 1X6AU01-178

PROCEDURE NO.		REVISION	PAGE NO.
VEGP	17006-1	11	34 of 41
			WINDOW E03
	ORIGIN	SETPOINT	RWST TO SI PMP
	- 1-HV-8806	Not Applicable	ISO VLV 8806 NOT FULLY OPEN
1.0	PROBABLE CAU	SE	
	1-HV-8806 mi	spositioned.	
2.0	AUTOMATIC AC	TIONS	
	NONE		
3.0	INITIAL OPER	ATOR ACTIONS	
		NOTE	
	op Sy in	valve 1-HV-8806 is not en, both Emergency Core stem trains are rendered operable, and Technical ecification 3.0.3 applie	Cooling
	1. CHECK v	alve position with indic	ations on the QMCB.
	2. RESTORE on the	power to valve 1-HV-880 QMCB and OPEN fully usin	06 using 1-HS-8806A
. 4.0	SUBSEQUENT O	PERATOR ACTIONS	
	1. If equipmainten	pment failure is indicat ance as required.	ed, INITIATE
	1-HS-88	ssary, LOCK OUT power to 06A and DISPATCH an open e valve.	
5.0	COMPENSATORY	OPERATOR ACTIONS	
	NONE		

REFERENCES: 1X4DB121, 1X3D-BD-D02N

OCEDURE NO.		REVISION	PAGE NO.
VEGP	17006-1	11	35 of 41
			UINDOU BOA
	ORIGIN	SETPOINT	RWST
	1-LT-0990 1-LT-0991 1-LT-0992 1-LT-0993	897	LO LEVEL
1.0	PROBABLE C	AUSE	
	1. Filli	ng of Accumulators.	
	2. Addin	g water to the Spent F	uel Pool.
	3. Safet	y Injection (SI) actua	tion.
	4. System	m leakage.	
2.0	AUTOMATIC	ACTIONS	
	Refueling ! Isolation	Water Storage Tank (RW Valves 1-HV-10957 and	ST) Sludge Mixing 1-HV-10958 close.
3.0	INITIAL OP	ERATOR ACTIONS	
	NONE		
4.0	SUBSEQUENT	OPERATOR ACTIONS	
	progr	Modes 1, 2, 3, or 4, ess, STOP any operationing water from the RWS	n that could be
		system leak is indicate the leate and isolate the leate	
		RE RWST level to norma System".	l per 13701-1, "Boric
	4. REFER	to Technical Specific	ation 3.5.4.
5.0	COMPENSATO	RY OPERATOR ACTIONS	

REFERENCES:

NONE

1X4DB121, P.L.S., 1X5DT0066, 1X6AU01-201, 1X3D-BD-D05B

ROCEDURE NO.		REVISION	PAGE NO.
VEGP	17006-1	11	36 of 41
	ORIGIN	SETPOINT	WINDOW E05
	1-LT-0990 1-LT-0991 1-LT-0992 1-LT-0993	10%	RWST EMPTY LEVEL
1.0	PROBABLE C	CAUSE	
		ling Water Storage Tank (y Injection (SI).	RWST) in use for
	2. RWST	in use for refueling.	
	3. Syste	m leakage.	
2.0	AUTOMATIC	ACTIONS	
	NONE		
3.0	INITIAL OF	PERATOR ACTIONS	
		NOTE	
		Actions for RWST empty le during SI are governed by 19013-C, "ES-1.3 Transfer Cold Leg Recirculation".	
4.0	SUBSEQUENT	OPERATOR ACTIONS	
1	cavit	in Modes 5 or 6 and the y filling operations are TCH personnel to locate a	not in progress.
6	2. While maint if ne	in Modes 5 or 6, RWST le ained greater than 5%. M cessary, per 13701-2, "Bo	vel should be lakeup to the RWST, oric Acid System".
-			

5.0 COMPENSATORY OPERATOR ACTIONS

NONE

END OF SUB-PROCEDURE

REFERENCES: 1X4DB121, P.L.S., 1X5DT0066, 1X6AU01-201

PROCEDURE NO.

REFERENCES: 1X6AA02-232

PROCEDURE NO.	1	REVISION	PAGENO
VEGP	17006-1	11	38 of 41
			WINDOW F03
	ORIGIN	SETPOINT	RWST
	1-LT-0990 1-LT-0991 1-LT-0992 1-LT-0993	96%	HI LEVEL
1.0	PROBABLE CAUS	SE	
	1. Overfill System F	ling from the Chemical Boric Acid Blender.	l and Volume Control
	2. Insuffic cavity.	cient capacity for dr	aining the refueling
	3. Draining Test Lir	g an Accumulator chrome.	igh the Accumulator
2.0	AUTOMATIC ACT	CIONS	
	NONE		
3.0	INITIAL OPERA	ATOR ACTIONS	
	NONE		
4.0	SUBSEQUENT OF	PERATOR ACTIONS	
•	STOP any oper Storage Tank	ration that is filling (RWST).	g the Refueling Water
5.0	COMPENSATORY	OPERATOR ACTIONS	
	NONE		

REFERENCES: 1X4DB121, P.L.S., 1X5DT0066, 1X6AU01-201

REFERENCES:

1X4DB121, P.L.S., 1X5DT0066, 1X6AU01-201

VEGP	17006-1	11	PAGE NO. 40 of 41
			WINDOW F05
	ORIGIN	SETPOINT	RWST
	1-LT-0990 1-LT-0991 1-LT-0992 1-LT-0993	39%	LO-LO 2 LEVEL
1.0	PROBABLE CAU	SE	
	1. Refueli Safety	ng Water Storage Tank Injection (SI).	(RWST) in use for
	2. RWST in	use for refueling.	
	3. System	leakage.	
2.0	AUTOMATIC AC	TIONS	
	NONE		
3.0	INITIAL OPER	ATOR AUTIONS	
	NONE		
4.0	SUBSEQUENT O	PERATOR ACTIONS	
	cavity	n Modes 5 or 6 and the filling operations are H personnel to locate	not in progress.
	2. Makeup "Boric	to the RWST, if necess Acid System."	sary, per 13701-1,
5.0	COMPENSATORY	OPERATOR ACTIONS	
	NONE		

REVISION

END OF SUB-PROCEDURE

PROCEDURE NO.

REFERENCES: 1X4DB121, P.L.S., 1X5DT0066, 1X6AU01-201

REVISION

PAGE NO

END OF PROCEDURE TEXT

REFERENCES:

1X3D-BD-D01C, 1X3D-BD-D01D

PROCEDURE NO.

05-83-90

0.3.0
Nuclear Plant Maintenance Work Order Continuation Sheet Page 3 of
MPL NO. 1/20186004 MWO NO. 18906587
Work Description & BSRERVED LDS FOR NOZZLE DAM LIEAKAGIZ AND
FOUND NOWE APPARIENT OF Sucie 3-1-90
Met w/HP Esite maint personnel to coordinate dam removal, bowl inspection &
disphragm installation Agreed to clean bowls, remove dams & clear platform oc
will go to plotform u/moint to inspect towl Fmaint will install diaphrogens,
Waiting for draindown CB Cander 3/17/90
Block 26 E.M. Jours 2 3/18/90
fly Bowls clemed and
t NO's removed at 0330. Dams and tooling removed from the platform stored in the laydown area. Of words 3/18/90
Mover Equipment From 1719" Lead IN CONTAINMENT TO THE HOT
MACHINE SHOP IN THE FUEL HANDLING BUILDING, MADE A PACKING LIST
AND GAVE IT TO K. HODRETT EXT. 3190. Mill & Morre 3/19/90



MAINTENANCE WORK ORDER REVISION SHEET

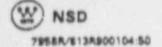
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	185 222 6	PC 42 R	rv. 0	"Richard Anderson
	KS 2,2,2 0			
	Andrew Michael Commission			
MAINTENANCERENG		B OPERATION	ATURES !s CI	FARANCE REQUIRED
2016 Ton	2-23-90	Smu	2-23.70 Y	EARANCE REQUIRED
O QC REVIEW	-1/2/2/2	11 FBLO FO	TIN S	OINT ATTACHED
HP REVIEW	A 2/23/9	13 NEW RW	PREQUIRED SOLT	
ANII REVIEW	2 4 2 0 0	1.00	OINTS	
WORK PLANNER	2-23-70	17 PROCED	11955	
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7951R/611R900103.50

MRS 2.2.2 GPC-21 REV 0

NOZZLE DAM HYDROTEST DATA SHEET

	Nozzi J Dam # Z	
	Nozzle Dam # 7	
	Nozzle Dam #	
	Pressure Gauge VP-2624	Calibration dua 3/21/90
	Torquemeter <u>VP-3-2920</u>	Calibration due $\frac{3/21/90}{8/24/90}$
3.0	CLOSE DUT	
3.0	The Nozzle Dams identified above we	ere hydrotested in accordance with WNSD acceptions/problems are noted above.
3.0	The Nozzle Dams identified above we	
3.0	The Nozzle Dams identified above we Procedure MRS 2.2.2 GPC-21. Any ex	xceptions/problems are noted above.



PRE-INSTALLATION NOZZLE DAM CHECKOUT PROCESS CONTROL SHEET

	Vogtle Unit */	N	NITIAL OTE	Acceptance, Exceptions, Unused)	
1.0	PRELIMINARY INSPECTION (9.1.1 - 9.1.9)	2	8	SUPERIOR SALDINGS FACULTY SALDINGS SALDINGS	-
	Nozzle dam assembly is complete per Dwg. 1501E07. All parts are positioned correctly and operating properly and gasket is in acceptable condition. Any exceptions/deviations are noted below.	2	1	SCHOOLSEN SERVICES STREET, SERVICES SERVICES	
2.0	HYDROTEST (9.1.10)				
	Nozzle dam successfully hydrotested and copy of test results available.	7.	1		****
3.0	COMMENTS/RESOLUTIONS:				
					0
4.0	SIGN-OFF				
	Above nozzle dams are ready (W) Coordinator/Date	for 5/9		lation.	

EFFECTIVE DATE

January 15, 1990

PAGE

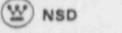
23

REVISED DATE

V813MB00104.50	FORM 2 PROCESS	CONTROL ST.
HOZZLE DAM INST	ALLATION/REMOVAL PROCESS	
	5/6	(Date/Initial)
Vogtle Unit		C/L H/L
		Dan 1 Z Dan 1 Z
O NOZZLE DAM INSTALLAT	ION (9.3)	- 2 2 ALDE 2-25-70
1.1 Nozzle dam installar 1.2 Leak detection	siled installed and	2-28-90-04 2-28-90 AX
1.1 Nozzle detection	system installed and	1-10-140
IAVOATA .	(9.4)	3/18/900AC 3/18/30CAC
2.0 NOZZLE DAM REMOVAL	m system removed	3/10/40CF 3/10/40CF
2.1 Leak detection 2.2 All debris re 2.3 Nozzle dos re 2.3 Nozzle dos re	moved from with	(GPCO) 3/10/10 A/12 3/15/C
2.6 " -1 - ACB T	A REAL VELL	1/N/40 CC
2.3 Nozzie	certal	
2.4 C/H inspecte of foreign a	material counted for	121/90
2.3 Mozzinspecte 2.4 C/H inspecte of foreign a 2.5 All parts at	TONS:	pretion Due 8/24/90
2.3 Mozzinspecte 2.4 C/H inspecte of foreign a 2.5 All parts at	TONS:	pretion Due 8/24/90
2.4 C/H inspecte of foreign s	TONS:	pretion Due <u>8/24/90</u>
2.3 Mozzinspecte 2.4 C/H inspecte of foreign a 2.5 All parts at	TONS:	pretion Due X/24/90
2.3 Mozzinspecte 2.4 C/H inspecte of foreign a 2.5 All parts at	TONS:	pretion Due 8/24/90
2.3 Mozzinspecte 2.4 C/H inspecte of foreign a 2.5 All parts at	TONS:	pretion Due 8/24/90
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2.3 Nozzi inspecte of foreign so of foreign so 2.5 All parts at 3.0 COMMENTS/RESOLUT Torquemeter \(\subseteq \)	10NS: 0-3-2820 Call	pretion Due 8/24/90
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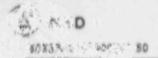
FORM 1 MAINTENANCE HISTORY LOG SHEET

sintenance Task Descript	ion	Comp	oleted By nnician/Date
			- 1 - 1
NO MAINTENANC	e Require	and the second s	2/25/80
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CTIVE		1 8 80 100 100	



FORM 1 PROCESS CONTROL SHEET

		wer 64E		
rogtie	Uni	t *		
NOTE:	14	item or section does not apply, mark N/	/Α.	
			Westinghouse	Georgia Power
1. 0	ompo	nent		
A		All Surfaces Cleaned of Work Residue	-11	
		(see Pa agraph 4.1.6)	We 3/19/90	A118 3/19/20
		Current Inspection NOT PART OF	THIS JOB	
		All Equipment Removed		
В		Channel Head Cleaned of Debris:	11/10	
		S/G A	NIF	NIT
		S/G B	NIA	NA
		S/G C	NIA	NIA
		S/G D	NIA	NA
C		Platform Clear of Debris:	1-	
		S/G A	NA	NA
		S/G B	NIA	NA
		S/G C	NIA	NIA
		S/G D	NA	NA
		Debris Packaged for Disposal	Nea	NA
E		Data Station Area Clean	NIA	N/14
II. M	echa	inical Plugging NOT PART OF +	HIS JOB	
A		All Equipment Removed	,	
		S/G A	NH	NIA
		S/G B	NA	N/19
		S/G C	NA	N/A
		S/G D	NA	NIA
В		Debris Packaged for Disposal	NA	NH
CTIVE	***********	uary 20, 1990 PAGE 6 of 9	REVISED DATE Fe	bruary 20, 1990



EFFECTIVE DATE

February 20, 1990

FORM 1 (CONT) PROCESS CONTROL SHEET

			Westinghouse	Georgia Power
***		10 Pine tonestin # Nowwie ring inspect	ution not perfo	mad
IV.		ie king inspection	* 1/10	* 1/2
	Α.	All Tools and Equipment Removed	NIA	N/A
	В.	Channel Head Cleaned of Debris:	w/a	/.
		S/G A	N/4	NIA
		S/G B	NA	N/A
		S/G C	ALG.	NIGT
		S/G D	NA	NIA
	С.	Debris Packaged for Disposal	NIA	11/4
٧.	Nozz	le Dam Installation		
	A.	All Tools and Equipment Removed	wen 3/1/20	X AKR 3/14/10
	β.	Channel Head Cleaned of Debris:		
		S/G-X 1 war 3/1/90 * Bowl cleanin	* W/A	* N/A
		5/6-8 2 wer 3/1/90 part of	NIA	NIA
		5/6 € 3 wam 3/1/90 not dam	NIA	NIA
		S/G & 4 war 3/1/90	NIA	NIA
	C.	Debris Packaged for Disposal	WA	NA
VI.	Nozz	le Dam Removal		
	A.	All Tools and Equipment Removed	OF 3/8/90	AKR 3/17/10
	8.	Channel Head Cleaned of Debris:		
		S/GAT 1 wer 3/1/40 +This work		*N/A
		5/60 2 wen 3/1/90 order for 5/60 3 wen 3/1/90 s/6 9 only.	NA	NIA
		5/6-00 3 ween 3/1/80	N/A	NA
		5/60 4 wear 3/1/90	9803/18/40	AKR 3/1/10
	c.	Debris Packaged for Disposal	OR VIO/40	we x1850
VII	Tame	orary Nozzle Covers Removed		
	· wing	S/G A * Temporary covers not use	d. * n)/A	*N/A
		S/G B	01/10	NIA
		3/0 0	men annually adult summan	sandan tenerafianan erinteranan errere

7 of 9

PAGE

REVISED DATE

February 20, 1990



FORM 1 (CONT) PROCESS CONTROL SHEET

		Westinghouse	Georgia Power
		11/10	1/2
	S/G C	NI.	NIA
	S/G D	V/A	NIA
VIII. Tube	Removal WOT PERFORMED		
	All Equipment Removed	N/14	NIGA
В.	Channel Head Cleaned of Debris:		
	S/G A	NIA	NIA
	S/G 8	NIA	NIA
	S/G C	N/4	NIA
	S/G D	NIH	NIA
c.	Debris Packaged for Disposal	N/H	N/A
IX. Vent	Hole Plugging NOT PERFORMED		
	All Tools and Equipment Removed	NIA	NIM
	Channel Head Cleaned of Debris:		
	S/G A	NA	N/A
	S/G B	NIA	N/A
	S/G C	NIA	NIA
	S/G D	NIX	N/A
c.	Debris Packaged for Disposal	N/4	N/H
X. Weld	Repair NOT PERFORMED		
	All Equipment Removed	NA	NIA
В.	Channel Head Cleaned of Debris:		
	S/G A	N/H	NA
	S/G B	MA	NIA
	S/G C	11/14	NIA
	S/G D	NIA	NA
c.	Debris Packaged for Disposal	NA	NIA

EFFECTIVE		
	h	

FORM 1 (CONT) PROCESS CONTROL SHEET

Westinghouse Georgia Power

A.	-	#N/A uipment Removed	*N/A	*N/A
В.		Head Cleaned of Debris:	construed annual articles in the	annum annum Annum annum
	S/G A	H/L	NA	NA
	S/G A	C/L	NIA	NIA
	S/G B	H/L	WA	NIA
	S/G B	C/L	WH	NIA
	S/G C	H/L	N/A	NA
	S/G C	C/L	NIA	NIM
	S/G D	H/L	N/19	NIA
	S/G D	C/L	WIA	NIA

FINAL SIGN-OFF

Westinghouse	Flantuin	Cornoration
Mearinguouse	FIRE FLIC	corporation

Georgia Power

Name 2 2/18/90
Name and k /2 3/18/10

SECL 90-032 Page 1 of 6

Customer Reference No(s).

Westinghouse Reference No(s). MRS 2.2.2 GPC-1 Revision 0

WESTINGHOUSE NUCLEAR SAFETY EVALUATION CHECK LIST

1)	NUCLEAR PLANT(S) VOGETE UNIT
2)	CHECK LIST APPLICABLE TO: Post activity sign-off for area cleanliness (Subject of Change)
3)	The written safety evaluation of the revised procedure, design change or modification required by 10CFR50.59 has been prepared to the extent required and is attached. If a safety evaluation is not required or is incomplete for any reason, explain on Page 2.
	Parts A and B of this Safety Evaluation Check List are to be completed only on the basis of the safety evaluation performed.
	CHECK LIST - PART A - 10CFR50.59(a)(1)
	(3.1) Yes No X A change to the plant as described in the FSAR? (3.2) Yes No X A change to procedures as described in the FSAR? (3.3) Yes No X A test or experiment not described in the FSAR? (3.4) Yes No X A change to the plant technical specifications (See Note on Page 2)
4)	CHECK LIST - PART B - 10CFR50.59(a)(2) (Justification for Part B answers must be included on Page 2.)
	(4.1) YesNo_X Will the probability of an accident previously evaluated in the FSAR be increased?
	(4.2) YesNo_X Will the consequences of an accident previously evaluated in the FSAR be increased?
	(4.3) YesNo_X May the possibility of an accident which is different than any already evaluated in the FSAR be created?
	(4.4) YesNo_X Will the probability of a malfunction of equipment important to safety previously evaluated in the FSAR be increased?
	(4.5) YesNo_X Will the consequences of a malfunction of equipment important to safety previously evaluated in the FSAR be increased?
	(4.6) YesNo_X May the possibility of a malfunction of equipment important to safety different than any already
	(4.7) Yes No X Will the margin of safety as defined in the bases to any technical specification be reduced?

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If the answers to any of the above questions are unknown, indicate under (5) REMARKS and explain below.

If the answer to question (3.4) of Part A or any of the questions in Part B cannot be answered in the negative, based on the written safety evaluation, the Change review requires an application for license amendment as stated in 10CFR50.59(c) and must be submitted to the NRC pursuant to 10CFR50.90.

S) REMARKS:

NONE

The following summarizes the justification upon the written safety evaluation. (1) for answers given in (3.4) of Part A and in Part B.

**** ATTACHED ****

(1)	Reference	to	document(s)	containing	written	safety	evaluation:	
	***			ATTACHED				***

FOR FS		PARTY BEATTER
E (310) E 5	D 10 11	LPT 1 DL T P

Section: Pages: Tables: Figures:

Reason for / Description of Change:

NO FSAR UPDATE PROVIDED

Safety Evaluation Approval Ladder

Prepared by Nuclear Safety

Coordinated with Operating Plant Licensing:

Operating Plant Licensing Group Manager:

S. DiToremaso A. DiTormaso Date: Z-19-90

R.J. Sterdis Rolet Les Date: 2-14-90.

Vogtle Unit 1

Post Activity Sign-Off for Area Cleanliness
(Field Procedure Number MRS 2.2.2 GPC-1 Revision 0)
SAFETY EVALUATION

INTRODUCTION

The procedure MRS 2.2.2 GPC-1 Revision 0 prepared for Vogtle Unit 1 establishes the format and guideline for an effective sign-off for cleanliness and equipment removal from the designated plant site work area. This procedure is to be implemented upon completion of scheduled work activities performed by the Westinghouse Steam Generator Primary Services Group.

LICENSING APPROACH AND SCOPE

The use of procedure MRS 2.2.2 GPC-1 Revision 0 will be reviewed against the criteria of 10CFR50.59. 10CFR50.59 allows the holder of a license authorizing operation of a nuclear power facility to use such procedures without prior NRC approval provided that the proposed change does not involve an unreviewed safety question or result in a change to the plant technical specifications incorporated in the license. The licensee must maintain a record of the change to the facility, to the extent that such a change impacts the FSAR. While the operation of the plant with the implementation of this procedure does not involve a change to the FSAR. 10CFR 50.59 stipulates that these records shall include a written safety evaluation which provides the basis for the determination that the use of this procedure does not involve an unreviewed safety question. It is the purpose of this document to support the requirement for a written safety evaluation.

Section 17.2.5 of the Vogtle FSAR describes the elements required to be included in procedures. Paragraphs 5A and 5B of part 17.2 of NUREG-800, Standard Review Plan, establishes the NRC position on information required to be included affecting quality.

Section 12.1 of the FSAR describes the program and procedures to maintain occupational radiation exposure as low as reasonably achievable (ALARA). The NRC position on the requirements of an ALARA program is outlined in section 12.5 of the Standard Review Plan.

The scope of this document is limited to the an evaluation of the post activities sign-off for area cleanliness, centering on any effects the use of this procedure may have on existing plant equipment or any unreviewed safety questions that may be identified.

EVALUATION

Field procedure MRS 2.2.2 GPC-1 Revision 0 is implemented to ensure that the work area is cleaned of all debris/consumables and that all equipment has been removed from the designated work area upon completion of any of the following scheduled work activities:

- o Eddy Current Inspection
- o Mechanical Plugging
- o Nozzle Ring Inspection
- o Nozzle Dam Installation
- o Nozzle Dam Removal
- o Temporary Nozzle Covers Removed
- o Tube Removal
- o Vent Hole Plugging
- o Weld Repair
- o Other Specified Work Activities

This procedure requires that Westinghouse and Georgia Power jointly inspect the designated work areas after completion of the above work activities. Both parties are required to sign off the Process Control Sheet included in the procedure. Any unsatisfactory inspection results will be the responsibility of Westinghouse and a second inspection will be conducted to confirm compliance with the procedure.

The procedure ensures that all equipment utilized by Westinghouse for the performance of the work activities is removed from the work area, including removal of any debris/consumables generated as a result of the work activities. The debris/consumables are to be properly packaged and presented to the utility for final disposal, which is the responsibility of Georgia Power.

The criteria of 10CFR50.59 is addressed in this procedure by eliminating unreviewed safety questions via the implementation of proper surveillance, loose part material control, exposure control or ALARA and procedural sign offs required while executing this procedure.

Surveillance Control

To assure procedural control and assure traceability of inspection records, this precedure has Georgia Power and Westinghouse sign-off blocks for the recording and verification that the work area has been properly cleaned of all debris and that all tools and equipment used have been completely removed from the work area.

This procedure is in conformance with the Westinghouse Quality Assurance Program Plan (Reference 1). Resolution of all nonconformance issues (identification /resolution), field change notices and field service activities outlined in this procedure are in conformance with Westinghouse's Service Division operating procedures (Reference 2 and 3).

Foreign/Loose Parts Assessment

The introduction of foreign debris into the RCS is minimized by the final inspection performed jointly by Westinghouse and Georgia Power. This procedure, when properly implemented, provides that no breach of the RCS is made by ensuring via inspection that any loose part(s) or debris has been removed and thus is prevented from entering the system.

ALARA

Radiological protection of personnel is addressed by the requirement that there be continuous coverage by the utility's health physics staff and Westinghouse's adherence to site radiological rules. Additionally, by providing qualified personnel and procedures to perform the work, Westinghouse is committed to keeping occupational radiation exposure to a minimum during all phases of work thus minimizing exposure to radiation and limiting the possible spread of contamination. This is accomplished by reducing the worker's length of exposure; using shielding where practical; securing and containing the work area; and maximizing the worker's distance from any radiation source.

CONCLUSIONS

Based on the above evaluation the use of procedure MRS 2.2.2 GPC-1 Revision 0, "Post-Activity Sign-Off for Area Cleanliness", does not require a change to plant technical specifications nor does it constitute an unreviewed safety question based on the criteria of 10 CFR 50.59 (a) (2). A proposed change, test or experiment involves an unreviewed safety question if any of the following conditions are not satisfied:

(i) if the probability of occurrence or the consequences of an accident or malfunction of equipment important to safety previously evaluated in the SAR is increased:

The procedure has no impact on probability of occurrence of an accident since its use does not initiate an accident and it does not have any impact on the performance of any safety-related system.

Use of this procedure has no impact on the safety analyses since the work area is returned to its previously analyzed condition.

The consequences of an accident are not increased as dose calculations are unaffected by this change; there is no increase in potential for fuel degradation.

(11) if a possibility for an accident or malfunction of a different type than any evaluated previously in the SAR may be created:

No new failure mode or limiting single failure is created as a result of this change. It is expected that the use of the procedure would preclude introduction of loose parts and subsequent degradation of the RCS primary pressure boundary.

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(iii) if the margin of safety as defined in the basis for any technical specification is reduced:

The change does not impact any physical parameters or conditions, which are addressed in the plant Technical Specifications.

All acceptance criteria continues to be met including the integrity of the RCS pressure boundary.

REFERENCES

- (1) Westinghouse Quality Assurance Program (WCAP-9245).
- (2) Westinghouse Control of Field Service Activities Operating Procedure Number WNSD OPR 610-3.
- (3) Westinghouse Control of Nonconformance on Items and Services Operating Procedure Number WNSD OPR 210-4.

MA	PART(S) SEND TO	ARE ACCEPTABLE FOR EQ GROUP		* 11/0h	1 3/24/
-		SECTION	III EQ GROUP EN	VALUATION VIG	DATE
[] JUSTI		FOR ACCEPTANCE:	E [] PART IS	S UNACCEPTABLE FOR USE	
			N/	EQ ENGINEER	DATE

FIGURE 3

103445

Quality Control Inspection Report

VOGTLE GENERATING PLANT-UNITS 1 & 2

33829

Georgi	a Po	wer	1
Page	1	of_	

MWO/ODR/DR No. /8906587	Building	Procedure/Spec. No./Rev.
Room Na/Level No.	Sys/Start-Up Designator	Tag No. //20/16004
Drawing No./Rev.	Vendor Manual Log No.	Other was

- Inspector will use separate fc : for each completed inspection function(s) and insert original with work package, use continuation sheets when needed.
- Use simple narrative type report procedure. Reference all applicable drawing numbers, specifications, special instructions, etc., connected with your inspection. Use sketches, when applicable, showing dimensions checked, alignment, physical location of defects found, etc. N/A all blocks not used.
- 3. Upon completion of the inspection activity, enter results below and sign and date.

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nspection F		(s):		
05516A MCS19		Inspector Christie K1	Orn.	Date 3/25/90

SEORG	Ale	PK	OWE	R	COMPANY	ř
					CONTROL	

QC HOLD / WITNESS POINTS

85010-C FIG. 1

MHO NO: 18906537 PROCEDURE & REV NO:

NOTIFY QUALITY CONTROL PRIOR TO PERFORMING THE MORK ACTIVITY OR STEP ASSOCIATED WITH THE HOLD (H) OR WITNESS (W) POINT

DO NOT BYPASS OF HOLD OR WITNESS POINTS

STEP No.	17	HOLD POINT / WITNESS POINT DESCRIPTION	ASS INI	GNED E	4	NOTI	FIED	OC AC	TICN 1-W-N/A
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COMMENTS & IR NUMBERS: (initial and date entries) * Warring properties 850100 pour 4.8.1130, Wak VEGF 00258-C

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CLOSED VESSEL/CONFINED SPACE TOOLS, EQUIPMENT, MATERIAL INVENTORY

5/6 4 C	MODEL NO., SERIAL NO., OR ID MARK	ITEM REMOVED OR ACCOUNTED FOR SUPV. INTLS. DATE
4 41647	*N/A	2701 Removed 2/28/90
POLDING SETTION	# 7	NORDIE 3/27/90
3 NOBBLE DAIN CENTER SECTION	# 7	Accounted FOR Hollow to NOTELE, wen 2/21/90
4 PREVINATION SELEN DRIVER	*1/A	Trem Remove 0 wer 2/28/90
5 SPec 17 WRENCH	*11/14	# Tem Removed we 2/28/40
6		*
7	gamento anticologica de la companya	
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LIST CONTINUED ON AN ADDITIONAL SHEET? () YES (> NO

* FILE W/COMPLETED MWO

* Serial numbers not applicable to the s tools.

FIGURE 3 - (EXAMPLE)

/EGP 00258-C

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CLOSED VESSEL/CONFINED SPACE TOOLS, EQUIPMENT, MATERIAL INVENTORY

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3 NOTEL EDAM CONTEL SECTION	# 8	NOTALE WAR 2/28/90
4 PROPURTICE BLEER	* n/A	Trem Removed wer 2/28/40
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6	Control of the Contro	The state of the s
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LIST CONTINUED ON AN ADDITIONAL SHEET? () YES 🚫 NO

^{*} FILE W/COMPLETED MWO

^{*} Serial numbers not applicable.

VEGP FIRE PROTECTION CHECKLIST
1. MWO NO. 2. MPL/TAG NO. 3. LOCATION
WILL THE WORK INSTALL, IMPAIR, MODIFY, ISOLATE, DEFEAT, OR REMOVE AN OF THE FOLLOWING? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICAT APPROPRIATE DETAILS. SPRINKLER SYSTEM
INTERIOR HUSE STATION HALON SYSTEM
DETECTION SYSTEM DEMERGENCY LIGHTING SYSTEM DERMANENT COMBUSTIBLES (CABLE, WOOD, PLASTIC, ETC.)
() STRUCTURAL STEEL, GR RACEWAY FIREPROOFING () FIRS SUPPRESSION SUPPLY SYSTEM (PUMPS, TANKS, ETC.) () CONDUIT JEALS OR EQUIPMENT ENCLOSURE (CABINET HOUSING) () FIRE EXTINGUISHER
() COMMUNICATIONS SYSTEM () RCP OIL COLLECTION SYSTEM () SEISMIC STANDPIPE SYSTEM
5. WILL THE WORK DEFEAT, MODIFY OR IMPAIR ANY OF THE FOLLOWING FIRE SEPARATION FEATURES? IF THE ANSWER IS "YES" CHECK THE BOX, AND INDICATE APPROPRIATE DETAILS. () A. FIRE AREA BOUNDARY (WALL, ETC.) () B. PASSIVE AREA BOUNDARY PENETRATION SEAL ASSEMBLY. PENETRATION SEAL
WALL BLOCKOUT FLOOR PLUG OR HATCH CABLE TRAY OR CONDUIT WRAP RADIANT ENERGY SHIELD () C. ACTIVE FIRE AREA BOUNDARY PENETRATION SEAL.
FIRE DAMPER
6. IF ALL THE ANSWERS IN BLOCKS 4 and 5 ARE "NO", STOP THE EVALUATION HERE, AND ENTER "NO" IN BLOCK 11 OF THE MWO FORM. IF ANY QUESTIONS WERE ANSWERED "YES", ENTER "YES" IN BLOCK 11 OF THE MWO FORM. EVALUATOR DATE DATE
POST WORK REVIEW (COMPLETE "A, B, OR C" BELOW) (A) THE CONDITION IMPACTING THE FIRE PROTECTION COMPONENTS LISTED AS HAS BEEN REMOVED. FPE DATE
(8) THE FIRE PROTECTION COMPONENT IS STILL IMPAIRED. FPE DATE
(C) RESIDRATION OF THE IMPAIRMENT HAS BEEN TRANSFERRED (Ref: AND THE FIRE PROTECTION LCO LOG HAS BEEN CHANGED TO REFERENCE TO NEW MWO FOR THIS IMPAIRMENT. FPE DATE

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SEE APERTURE CARDS

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