CAROLINA POWER & LIGHT COMPANY BRUNSWICK STEAM ELECTRIC PLANT

UNIT 2

PROCEDURE TYPE: ALTERNATIVE SAFE SHUTDOWN PROCEDURE

NUMBER:

ASSD-18

PROCEDURE TITLE: DIESEL GENERATOR BUILDING 23' ELEVATION

E6 SWITCHGEAR ROOM

Rev. 0

4/4/88

General Manager/Manager-Ogerations

Date:

Approved By:

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LIST OF EFFECTIVE PAGES

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Diesel Generator Building 23' Elevation E6 Switchgear Room

B. REFERENCES

- 1. Per 10 CFR 50 Appendia "P" Sections III.G & L.
- 2. Per 10 CFR 50 Appendix "R" Section III.J.

C. ENTRY CONDITION

This procedure is entered from Alternative Safe Shuldown Index ASSD-01.

1. A fire has occurred in an area containing Alternative Safe Shutdown Train B equipment,

AND

2. The Shift Foreman has determined that the reactor is to be brought to Cold Shutdown using Alternative Safe Shutdown Train A.

The purpose of this procedure is to provide supplemental actions to be used concurrently with EOPs and other operations procedures to achieve and maintain Cold Shutdown coincident with or without a 72 hour loss of offsits power.

D. OPERATOR ACTIONS

- 1. IF while executing this procedure, the fire is extinguished AND the Shift Foreman determines that no action within this procedure is required, THEN EXIT this procedure.
- OBSERVE the following parameters on instruments indicated while performing actions to achieve and maintain cold shutdown.

Instrument

2-CAC-TR-4026-1 Suppression Pool Temp. (Pt. 1)
Control Room Panel

- __ 3. IF reactor building entry is required to restore <u>OR</u> monitor equipment, THEN
 - a. DISPATCH the following minimum manpower for performance of this procedure:

Reactor Building - 1 Auxiliary Operator

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		b.	Key Locker
			(1) ASSD Equipment Cabinet Key #148 (1) ASSD Flashlight Tool Box Key #160
		c.	OBTAIN Security Access Keys from SAS Security Officer located in the Control Room
			AND PROCURE the following equipment from the ASSD Equipment Cabinet:
			For Reactor Building
			(1) Sound powered phone (1) Flashlight (1) Copy of this procedure (3) Remote Shutdown Keys, Serial T112 (1) Security Access Key (1) Twenty-five foot sound powered phone extension cord
		d.	USE appropriate figures in this procedure to provide access/egress routes, equipment and communication locations.
			NOTE
			Implementation of ASSD-18 for Unit 1 will require Diesel Generator No. 4 to be cross-tied to 4KV Bus El via 4KV Bus E2. When 4KV Bus E1 and Substation E5 are re-energized by Unit 1, Suppression Pool Cooling and Shutdown Cooling for Unit 2 can then be established using Train A safe shutdown equipment.
****	4.	IF Nuclear CANNOT be 2-SW-V117	Service Water to Vital Lader Valve, 2-SW-V117 operated from the RTGB, THEN Manually OPERATE
	5.	IF Nuclear operated	r Service Water Supply Valve, 2-SW-V105 CANNOT be from the RTGB, THEN Manually OPERATE 2-SW-V105.
	6.		operated from the RTGB, THEN Manually OPERATE
	7.		ion of RHR Service Water System is required AND RHR ater Booster Pumps are NOT available, THEN REFER to

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8.	IF operation of HPCI Steam Supply Inboard Isolation Valve, 2-E41-F002 is required AND power is NOT available from MCC 2XD, THEN
	a. PLACE the circuit breaker control switch in the OFF position for HPCI Steam Supply Inboard Isolation Valve, 2-E41-F002, at MCC 2XD compartment DW1.
	b. PLACE the circuit breaker control switch in the ON position for HPCI Steam Supply Line Isolation Valve, E41-F002, (ASSD FEED) at MCC 2XC compartment DS1.
	C. IF 2-E41-F002 is required to be Open, THEN PLACE the ASSD Keylock Control Switch in the OPEN position, at MCC 2XC compartment DS1.
	d. IF 2-E41-F002 is required to be Closed, THEN PLACE the ASSD Keylock Control Switch in the CLOSE position, at MCC 2XC compartment DS1.
9.	IF operation of HPCI Turbine Exhaust Vacuum Breaker Valve, 2-E41-F079, is required AND power is NOT available from MCC 2xB, THEN
	a. PLACE the circuit breaker control switch in the OFF position for HPCI Turbine Exhaust Vacuum Breaker Valve, 2-E41-F079, at MCC 'XB compartment DQO.
	b. PLACE the circuit breaker control switch in the ON position for HPCI Turbine Exhaust Vacuum Breaker Valve, 2-E41-F079, (ASSD FEED) at MCC 2XC compartment DT2.
	C. IF 2-E41-F079 is required to be Open, THEN PLACE the ASSO Keylock Control Switch in the OPEN position, at MCC 2XC compartment DT2.
	d. IF 2-E41-F079 is required to be Open, THEN PLACE the ASSD Keylock Control Switch in the CLOSE position, at MCC 2XC compartment DT2.
10.	IF operation of Shutdown Cooling Cutboard Suction Throttle Valve, 2-E11-F008 is required AND power is NOT available from MCC 2XDB, THEN
	a. VERIFY OFF OR PLACE the circuit breaker control switch in the OFF position for Shutdown Cooling Suction Throttle Valve, 2-E11-F008, at MCC 2XDB compartment B50.
	b. PLACE the circuit breaker control switch in the ON position for RHR Suction Isolation Valve, 2-E11-F008, (ASSD FEED) at MCC 2XDA compartment 226.

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	с.	the Close/	OOR is required to be Open, THEN PLACE Off/Open Keylock Switch in the OPEN at MCC 2XDA compartment B26.
	d.	the Close/	008 is required to be Closed, THEN PLACE Off/Open Keylock Switch in the CLCSE at MCC 2XDA compartment B26.
11.	WHEN Shif	t Foreman d	etermines:
	a.		vailable from MCC 2XD for operation of HPCI ly Inboard Isolation Valve, 2-E41-F002,
		(1)	PLACE the circuit breaker control switch in the ON position for HPCI Steam Supply Inboard Tsolation Valve, 2-E41-F002, at MCC 2XD compartment Pai.
			Ind/Ver
		(2)	PLACE the circuit breaker control switch in the OFF position for HPC1 Steam Supply Line Inboard Isolation Valve, 2-E41-F002, (ASSD FEED) at MCC 2XC compartment DS1.
			Ind/Ver
		(3)	PLACE the ASSD Keylock Control Switch in the OFF position, for HPCI Steam Supply Line Isolation Valve, 2-E41-F002, at MCC 2XC compartment DS1.
			Ind/Ver
	b.		vailable from MCC 2XB for operation of HPCI haust Yacuum Breaker Valve, 2-E41-F079,
		(1)	PLACE the circuit breaker control switch in the ON position for HPCI Turbine Exhaust facuum Breaker Valve, 2-E41-F079, at MCC 2 compartment DQO.
			Ind/Ver /

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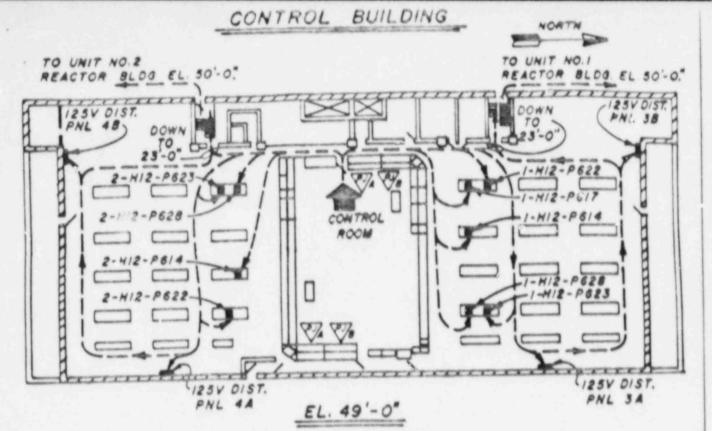
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	(2)	PLACE the circuit breaker control switch in the <u>OFF</u> position for HPCI Turbine Vacuum Breaker Valve, 2-E41 F079, (ASSO FEED) at MCC 2xC compartment DT2.	
		Ind/Ver /	
	(3)	PLACE the ASSD Keylock Control Switch in the OFF position for HPCI lurbine Vacuum Breaker Valve, 2-E41-F079, at MCC 2XC compartment DT2.	
		Ind/Ver	
c.		vailable from MCC 2XDB for operation of cooling Outboard Suction Throttle Valve,	
	(1)	PLACE the circuit breaker control switch in the ON position for Shutdown Cooling Outboard Suction Throttle Valve, 2-E11-F008, at MCC 2XDB compartment B50.	
		Ind/Ver	
	(2)	PLACE the circuit breaker control switch in the OFF position for RHR Suction Isolation Valve 2-E11-F008, (ASSO FEED; at MCC 2XDA cc rtment B26.	RB.
		Ind/Ver	
	(3)	PLACE the Close/Off/Open Keylock Switch in the OFF position for RHR Suction Isolation Valve, 2-E11-F008, at MCC 2XDA compartment B26.	
		Ind/Ver /	

12.	WHEN:			
	a.	The fire has been ext	inguished AND	
	b.	All breakers, AND/OR procedure are restore	switches operated in this d to their normal position AND	
	c.	c. No actions within this procedure are required to achieve or maintain Cold Shutdown, THEN		
	d.	EXIT this procedure.		
	Date/Time Performed	Completed By (Print)	Initials	
	Reviewed	By:		

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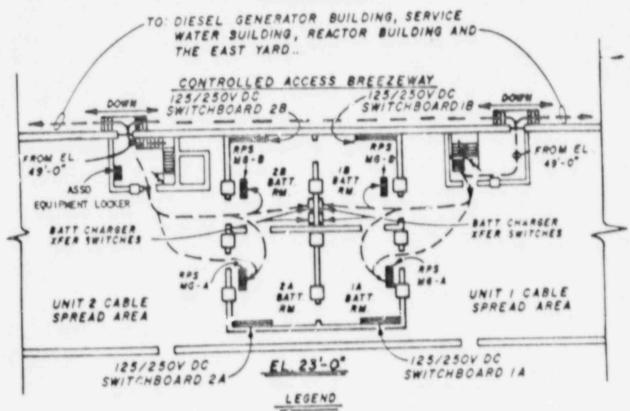


FIGURE 1

- ACCESS/EGRESS

PHONE JACK, TRAIN A OR B

Control Building 23'0" and 49'0" Elevations Access/Egress and Sound Powered Phone Communications

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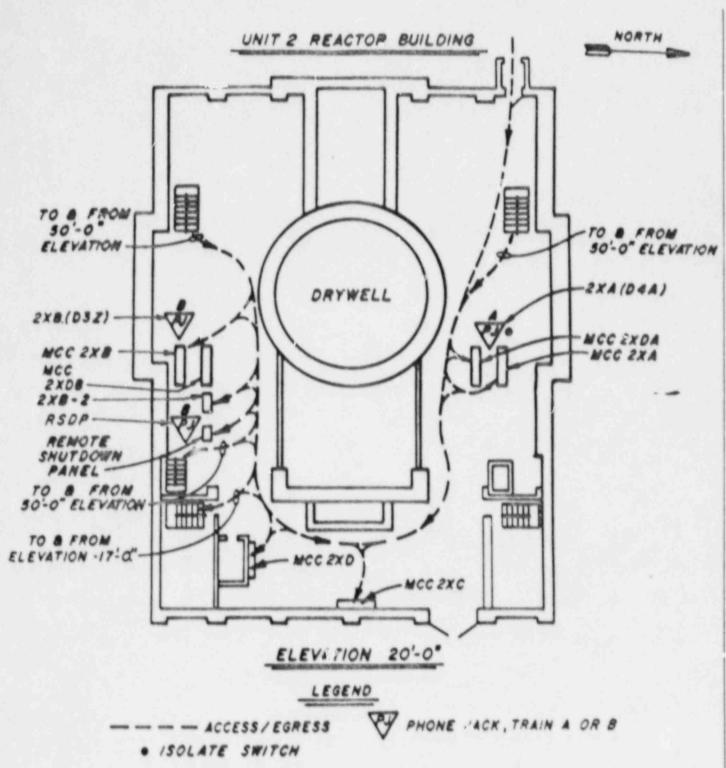


FIGURE 2

Unit 2 Reactor Building 20' -0" Elevation Access/Egress and Sound Powered Phone Communications

UNIT 2 REACTOR BUILDING

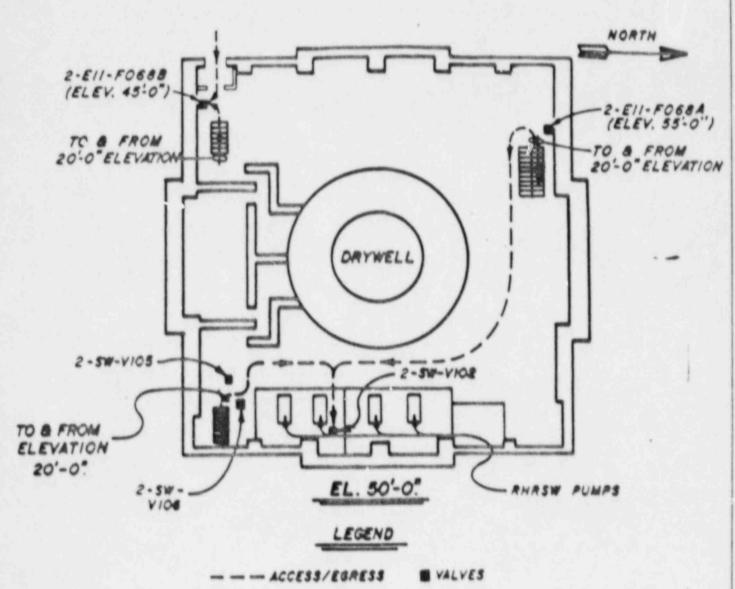


FIGURE 3

Unit 2 Reactor Building 50' -0" Elevation Access/Egress

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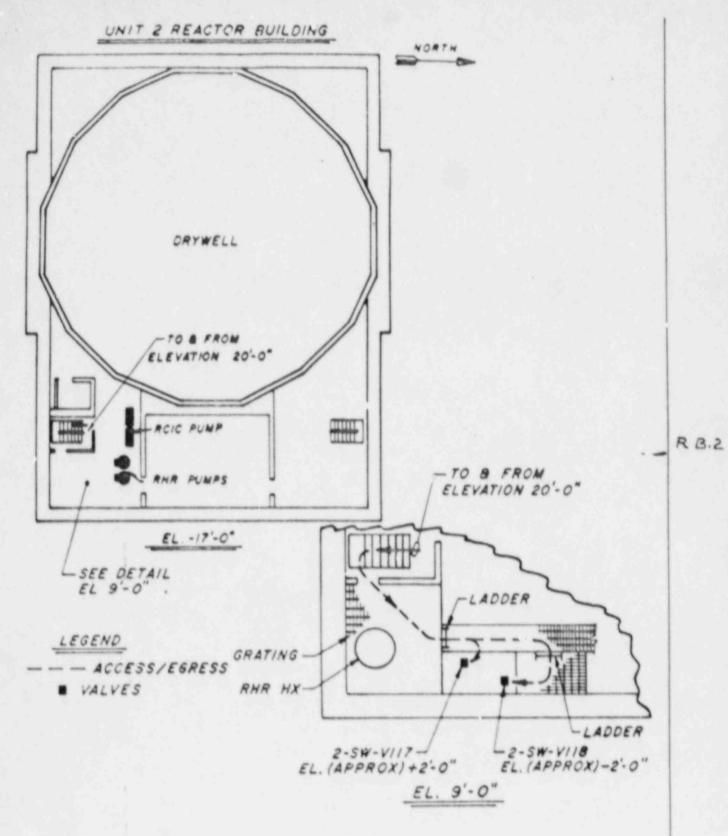


FIGURE 4

Unit 2 Reactor Building -17' -0" Elevation Access/Egress

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