

CAROLINA POWER & LIGHT COMPANY
BRUNSWICK STEAM ELECTRIC PLANT

UNIT 1

PROCEDURE TYPE: ALTERNATIVE SAFE SHUTDOWN PROCEDURE

NUMBER: ASSD-24

PROCEDURE TITLE: DIESEL GENERATOR BUILDING 50' ELEVATION
E4 SWITCHGEAR ROOM

Rev. 0

R B.1

3/8/88

FOR INFO ONLY.

Not to be used to perform maintenance, tests, surveillance,
operate or manipulate plant systems, document activities, or
write or implement design changes.

Approved By:

S. J. Birding
General Manager/Manager-Operations

Date:

4/7/88

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Revision

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A. TITLE

Diesel Generator Building 50' Elevation E4 Switchgear Room

B. REFERENCES

- _____ 1. Per 10CFR50 Appendix "R" Sections III.G & L.
- _____ 2. Per 10CFR50 Appendix "R" Section I'I.J.

C. ENTRY CONDITION

This procedure is entered from Alternative Safe Shutdown 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 off-site power.

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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.
- _____ 2. OBSERVE the following parameters on instruments indicated while performing actions to achieve and maintain cold shutdown.

Instrument

Location

1-CAC-TR-4426-1 Suppression Pool Temperature	Control Room Panel
1-CAC-LR-2602 Torus Level	Control Room Panel
1-C32-PI-R605 Reactor Pressure	Control Room Panel
1-C32-LI-R506A Reactor Water Level	Control Room Panel

- _____ 3. IF reactor building entry is required to restore OR monitor equipment, THEN

- _____ a. DISPATCH the following minimum manpower for performance of this procedure:

Reactor Building - 1 Auxiliary Operator

_____ b. OBTAIN the following keys from the SOS Key Locker

- _____ (1) ASSD Equipment Cabinet Key #148
- _____ (1) ASSD Flashlight Tool Box Key #160

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.

_____ c. USE appropriate figures in this procedure to provide access/egress routes, equipment and communication locations. (Normal communications may not be available.)

_____ 4. IF Nuclear Service Water to Vital Header Valve, 1-SW-V117 CANNOT be operated from the RTGB, THEN Manually OPERATE 1-SW-V117.

_____ 5. IF Nuclear Service Water Supply Valve, 1-SW-V105 CANNOT be operated from the RTGB, THEN Manually OPERATE 1-SW-V105.

_____ 6. IF Conventional-Nuclear Header Cross-tie Valve, 1-SW-V102 CANNOT be operated from the RTGB, THEN Manually OPERATE 1-SW-V102.

_____ 7. IF operation of RHR Service Water System is required AND RHR Service Water Booster Pumps are NOT available, THEN REFER to OP-43.

_____ 8. IF operation of HPCI Steam Supply Inboard Isolation Valve, 1-E41-F002 is required AND power is NOT available from MCC 1XD, THEN

_____ a. PLACE the circuit breaker control switch in the OFF position for HPCI Steam Supply Inboard Isolation Valve, 1-E41-F002, at MCC 1XD compartment DW1.

_____ b. PLACE the circuit breaker control switch in the ON position for HPCI Steam Supply Line Isolation Valve, 1-E41-F002, (ASSD FEED) at MCC 1XC compartment DS1.

_____ c. IF 1-E41-F002 is required to be Open, THEN PLACE the ASSD Keylock Control Switch in the OPEN position, at MCC 1XC compartment DS1.

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- _____ d. IF 1-E41-F002 is required to be Closed, THEN PLACE the ASSD Keylock Control Switch in the CLOSE position, at MCC 1XC compartment DS1.
- _____ 9. IF operation of HPCI Turbine Exhaust Vacuum Breaker Valve, 1-E41-F079, is required AND power is NOT available from MCC 1XB, THEN
- _____ a. PLACE the circuit breaker control switch in the OFF position for HPCI Turbine Exhaust Vacuum Breaker Valve, 1-E41-F079, at MCC 1XB compartment DQ0.
- _____ b. PLACE the circuit breaker control switch in the ON position for HPCI Turbine Vacuum Breaker Valve, 1-E41-F079, (ASSD Feed) at MCC 1XC compartment DT2.
- _____ c. IF 1-E41-F079 is required to be Open, THEN PLACE the ASSD Keylock Control Switch in the OPEN position, at MCC 1XC compartment DT2.
- _____ d. IF 1-E41-F079 is required to be Closed, THEN PLACE the ASSD Keylock Control Switch in the CLOSE position, at MCC 1XC compartment DT2.
- _____ 10. IF operation of Shutdown Cooling Outboard Suction Isolation Valve, 1-E11-F008 is required AND power is NOT available from MCC 1X0B, THEN
- _____ a. VERIFY OFF OR PLACE the circuit breaker control switch in the OFF position for Shutdown Cooling Outboard Suction Isolation Valve, 1-E11-F008, at MCC 1X0B compartment B50.
- _____ b. PLACE the circuit breaker control switch on the ON position for RHR Suction Isolation Valve, 1-E11-F008, (ASSD FEED) at MCC 1XDA compartment B26.
- _____ c. IF 1-E11-F008 is required to be Open, THEN PLACE the Close/Off/Open Keylock Switch in the OPEN position, at MCC 1XDA compartment B26.
- _____ d. IF 1-E11-F008 is required to be Closed, THEN PLACE the Close/Off/Open Keylock Switch in the CLOSE position, at MCC 1XDA compartment B26.
- _____ 11. WHEN Shift Foreman determines:
- _____ a. Power is available from MCC 1XD for operation of HPCI Steam Supply Inboard Isolation Valve, 1-E41-F002, EN

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- _____ (1) PLACE the circuit breaker control switch in the ON position for HPCI Steam Supply Inboard Isolation Valve 1-E41-F002, at MCC 1XD compartment DW1.

Ind/Ver

- _____ (2) PLACE the circuit breaker control switch in the OFF position for HPCI Steam Supply Line Isolation Valve, 1-E41-F002, (ASSD FEED) at MCC 1XC compartment DS1.

Ind/Ver

- _____ (3) PLACE the ASSD Keylock Control Switch in the OFF position, for HPCI Steam Supply Line Isolation Valve, 1-E41-F002, at MCC 1XC compartment DS1.

Ind/Ver

- _____ b. Power is available from MCC 1XB for operation of HPCI Turbine Exhaust Vacuum Breaker Valve, 1-E41-F079, THEN

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- _____ (1) PLACE the circuit breaker control switch in the ON position for HPCI Turbine Exhaust Vacuum Breaker Valve, 1-E41-F079, at MCC 1XB compartment DQ0.

Ind/Ver

- _____ (2) PLACE the circuit breaker control switch in the OFF position for HPCI Turbine Vacuum Breaker Valve, 1-E41-F079 (ASSD FEED) at MCC 1XC compartment DT2.

Ind/Ver

- _____ (3) PLACE the ASSD Keylock Control Switch in the OFF position for HPCI Turbine Vacuum Breaker Valve, 1-E41-F079, at MCC 1XC compartment DT2.

Ind/Ver

- _____ c. Power is available from MCC 1XD8 for operation of Shutdown Cooling Outboard Suction Isolation Valve, 1-E11-F008, THEN

- _____ (1) PLACE the circuit breaker control switch in the ON position for Shutdown Cooling Outboard Suction Isolation Valve, 1-E11-F008, at MCC 1X08 compartment B50.

Ind/Ver

- _____ (2) PLACE the circuit breaker control switch in the OFF position for RHR Suction Isolation Valve, 1-E11-F008, (ASSD FEED) at MCC 1XDA compartment B26.

Ind/Ver

- _____ (3) PLACE the Close/Off/Open Keylock Switch in the OFF position for RHR Suction Isolation Valve, 1-E11-F008, at MCC 1XDA compartment B26.

Ind/Ver

_____ 12. WHEN:

- _____ a. The fire has been extinguished AND
- _____ b. All breakers, AND/OR switches operated in this procedure are restored to their normal position AND
- _____ c. No actions within this procedure are required to achieve or maintain Cold Shutdown, THEN
- _____ d. EXIT this procedure.

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Date/Time Completed _____
Performed By (Print) _____ Initials _____

Reviewed By: _____
Shift Foreman

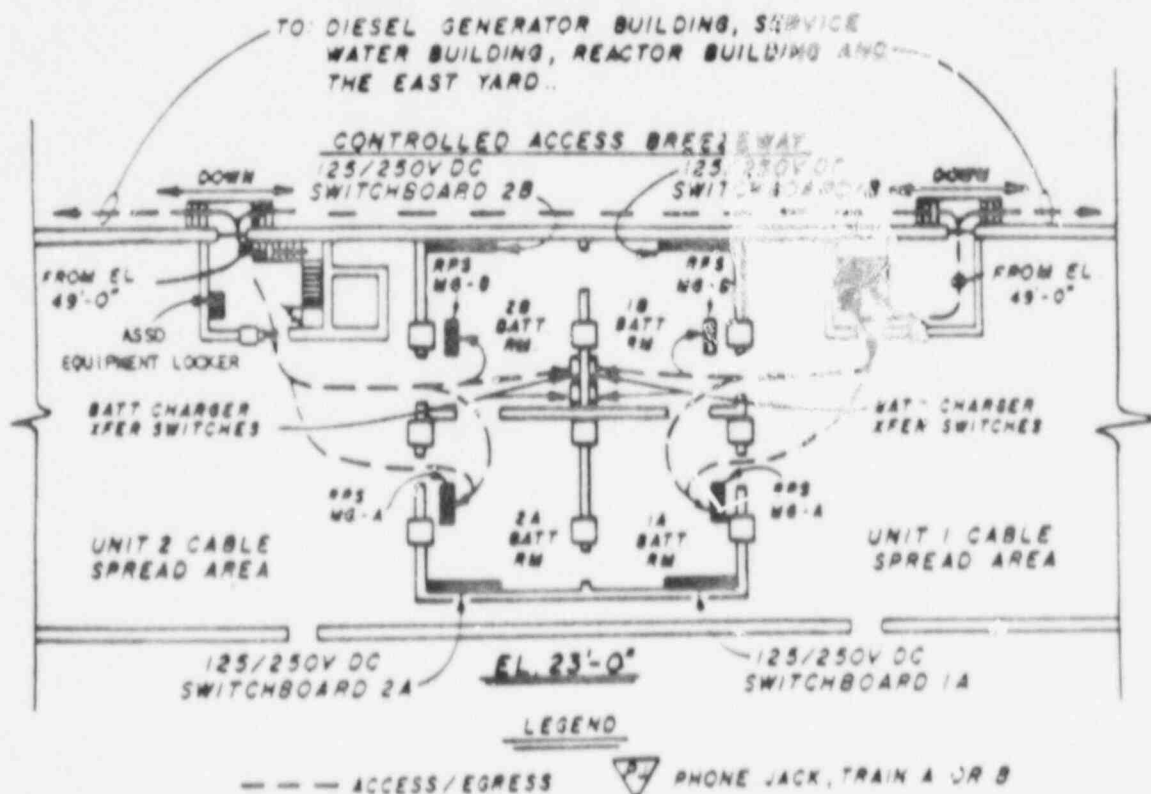
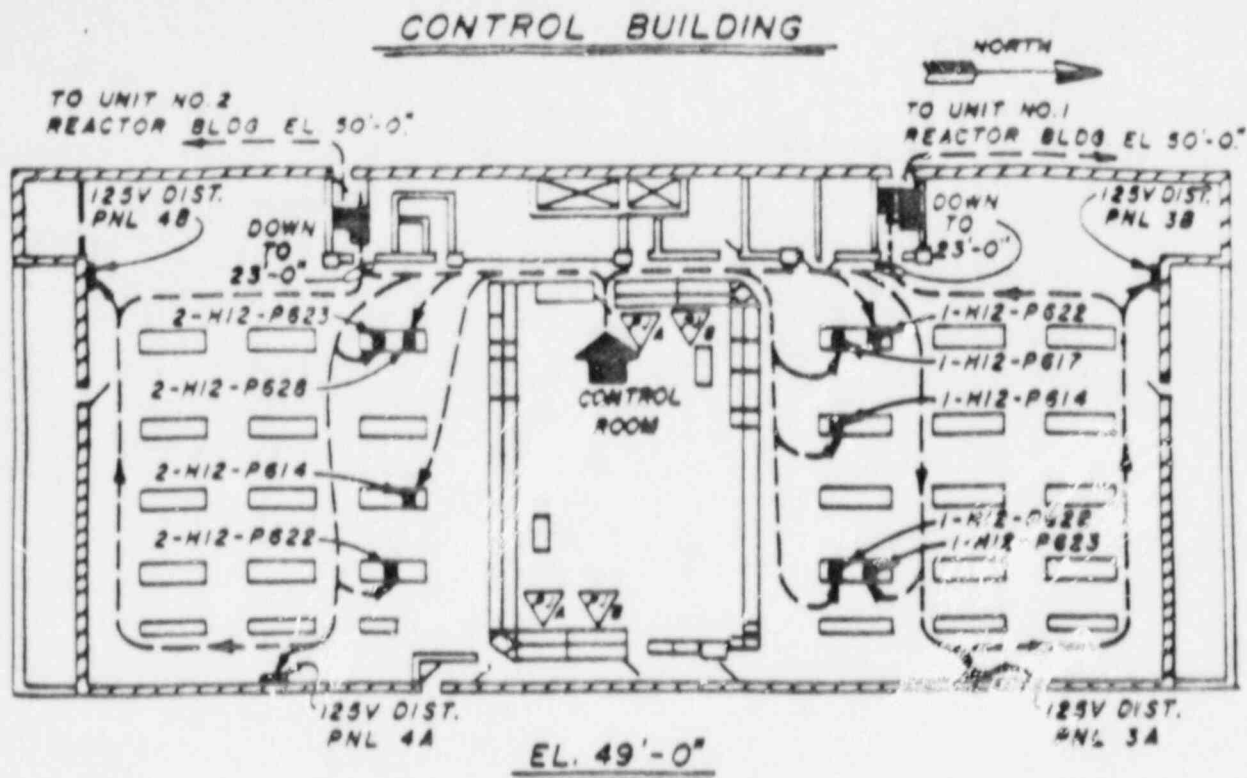
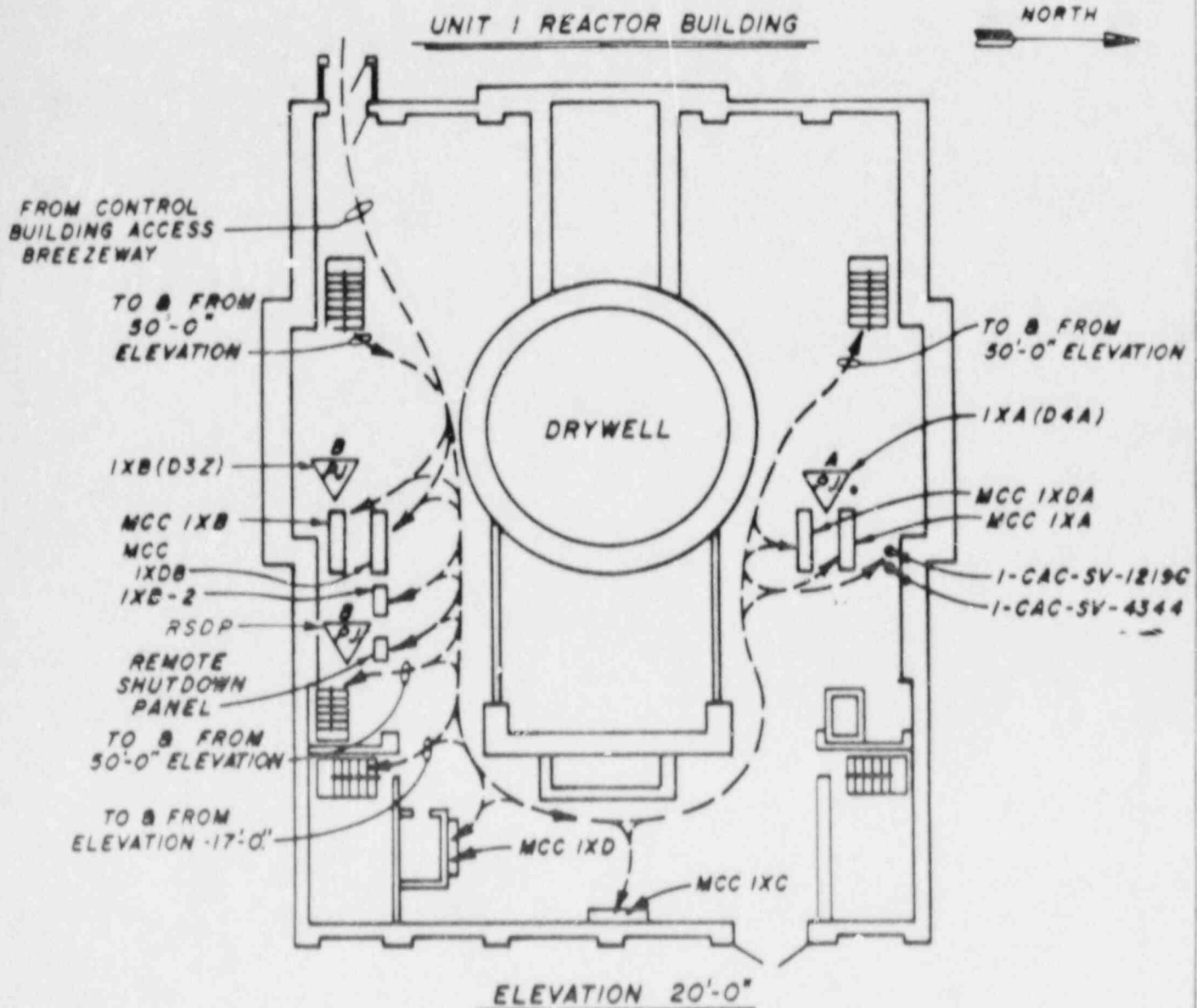


FIGURE 1

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



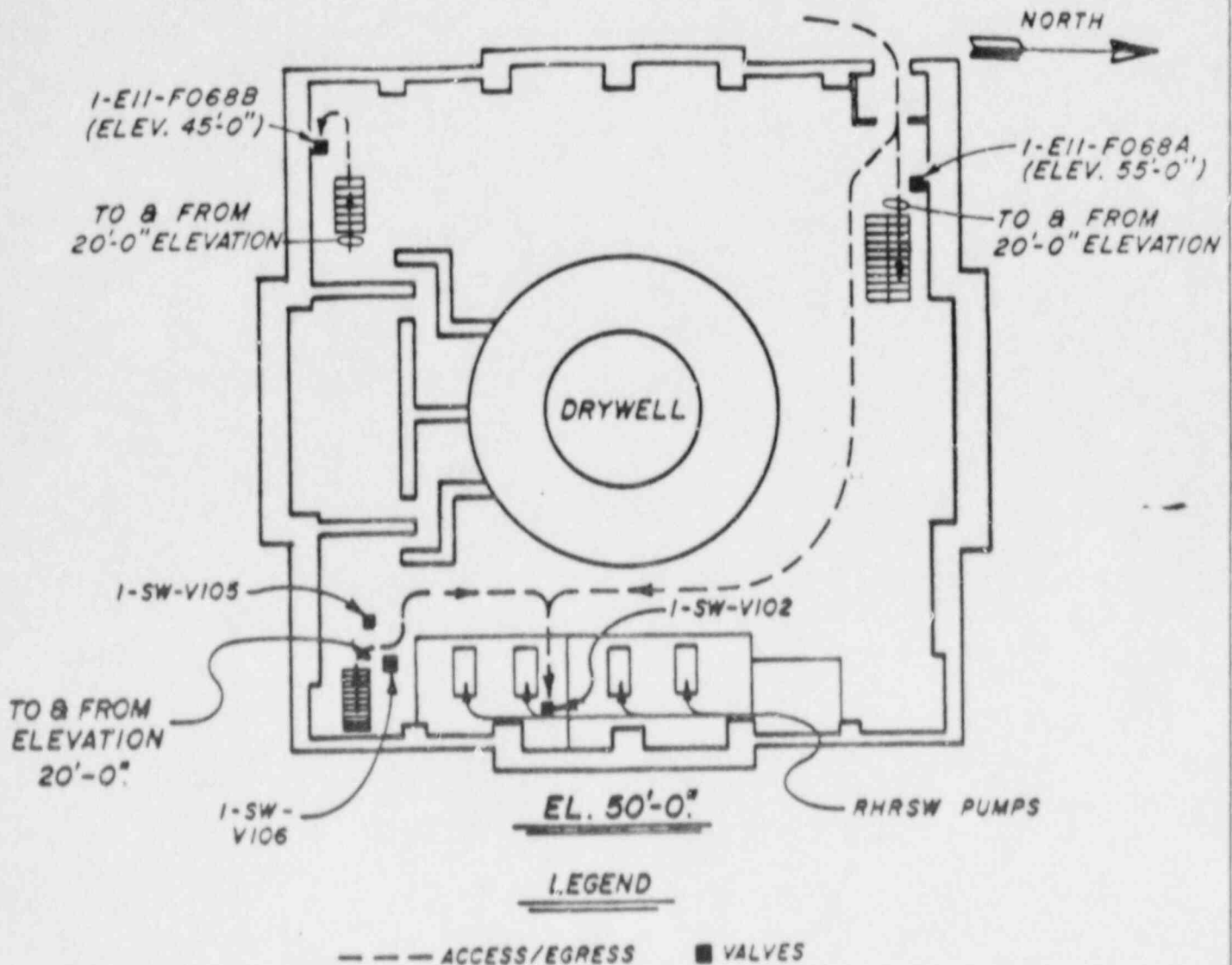
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FIGURE 2

Unit 1 Reactor Building 20'-0" Elevation - Access/Egress
and
Sound Powered Phone Communications

UNIT 1 REACTOR BUILDING



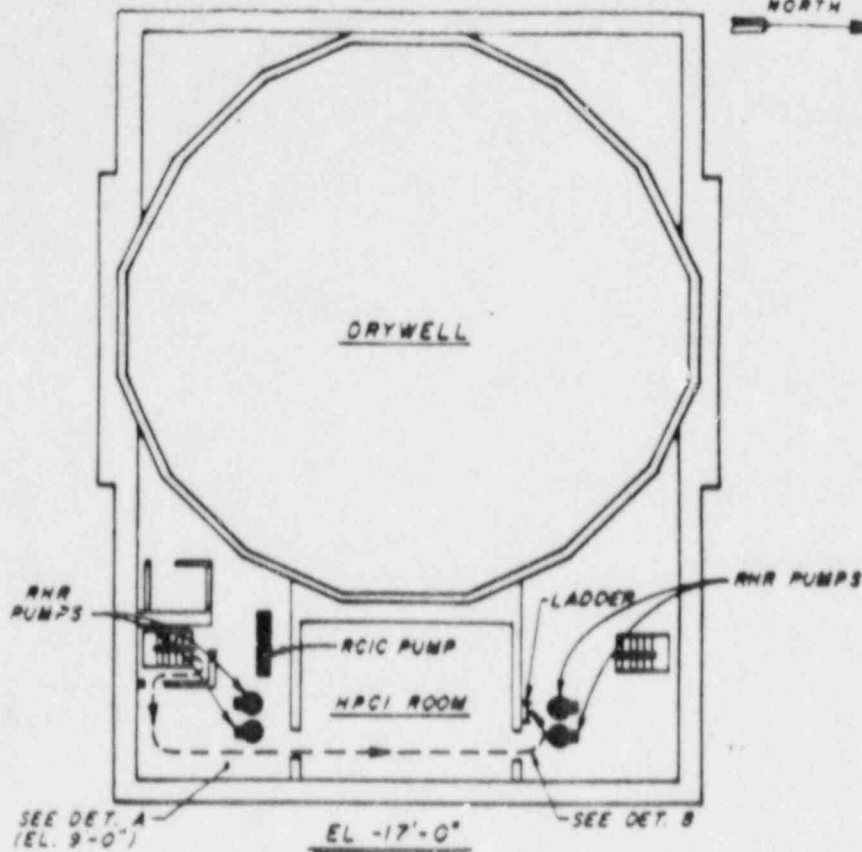
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FIGURE 3

Unit 1 Reactor Building 50'-0" Elevation - Access/Egress

UNIT 1 REACTOR BUILDING

NORTH



R.B.2

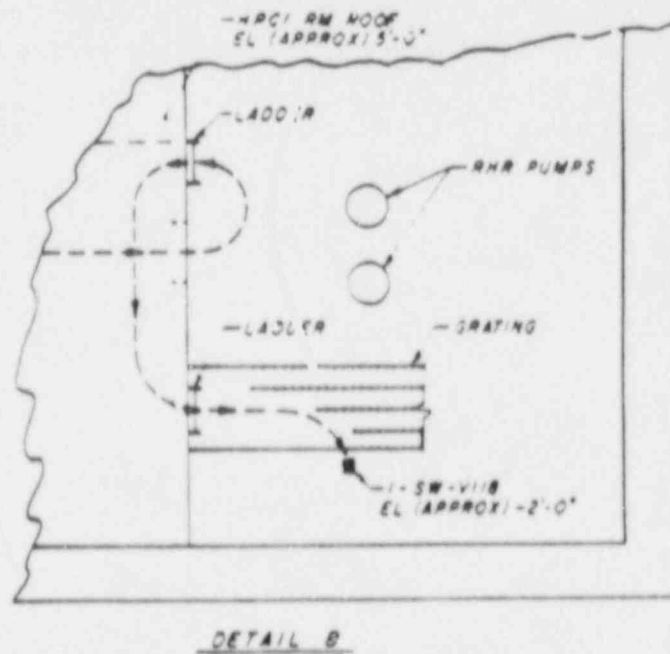
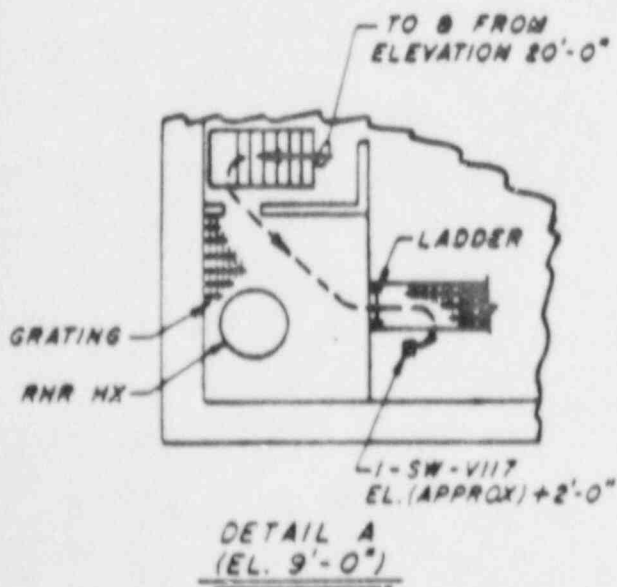


FIGURE 4

Unit 1 Reactor Building -17'-0" Elevation - Access/Egress