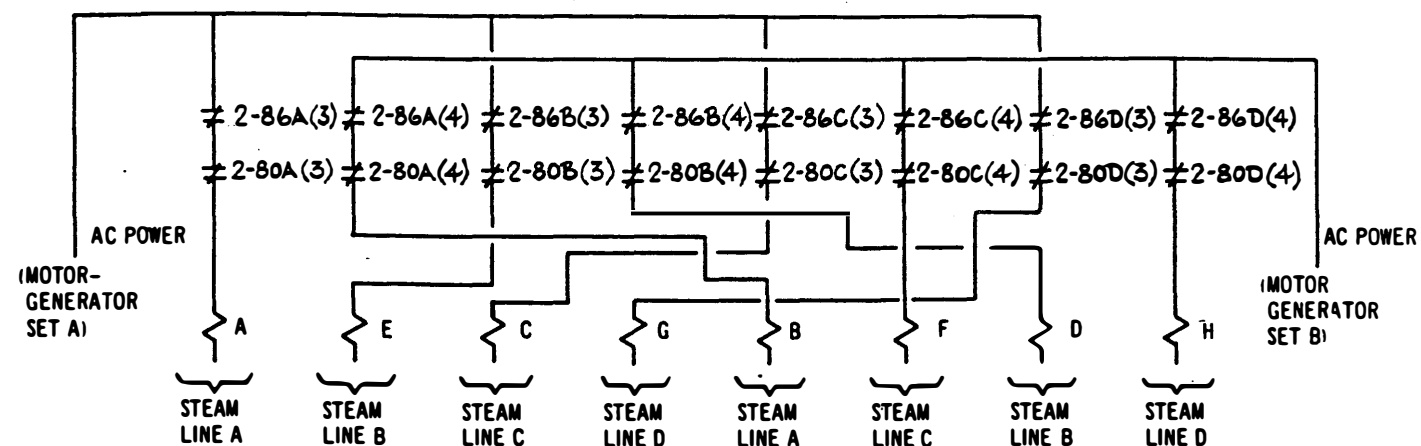


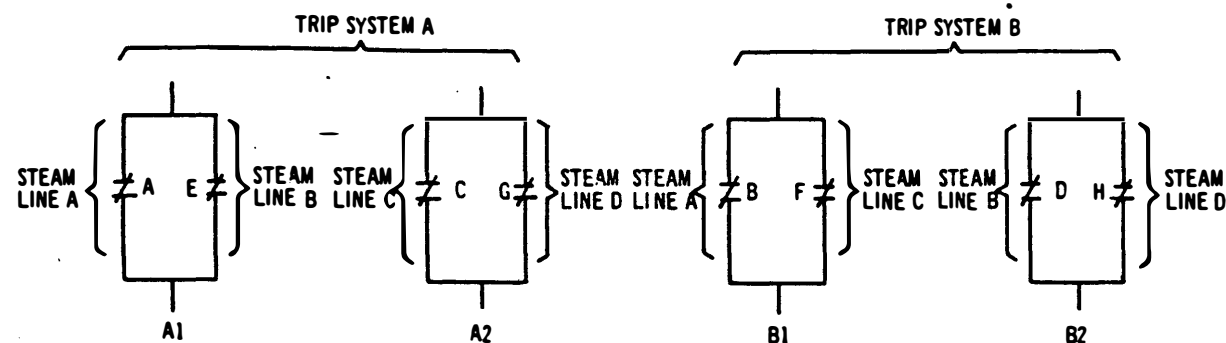
Security-Related Information Withheld under 10 CFR 2.390

Figure 7.2.1

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MAIN STEAM LINE ISOLATION CHANNELS
(SWITCH CONTACTS SHOWN IN POSITIONS WHEN ISOLATION VALVES LESS THAN 10% CLOSED)



REACTOR PROTECTION SYSTEM LOGICS
(CONTACTS SHOWN IN NORMAL CONDITION)

KEY: 2-80A - STEAM LINE A, INBOARD VALVE
2-86A - STEAM LINE A, OUTBOARD VALVE
2-80B - STEAM LINE B, INBOARD VALVE
2-86B - STEAM LINE B, OUTBOARD VALVE

2-80C - STEAM LINE C, INBOARD VALVE
2-86C - STEAM LINE C, OUTBOARD VALVE
2-80D - STEAM LINE D, INBOARD VALVE
2-86D - STEAM LINE D, OUTBOARD VALVE

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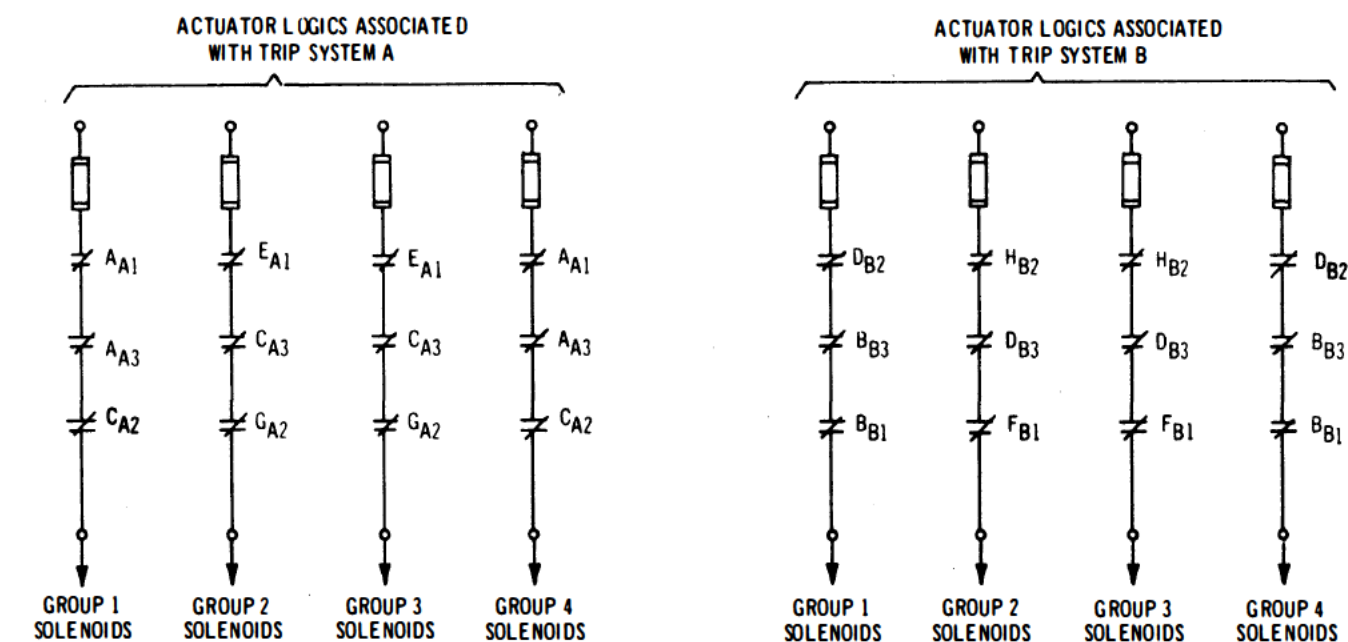
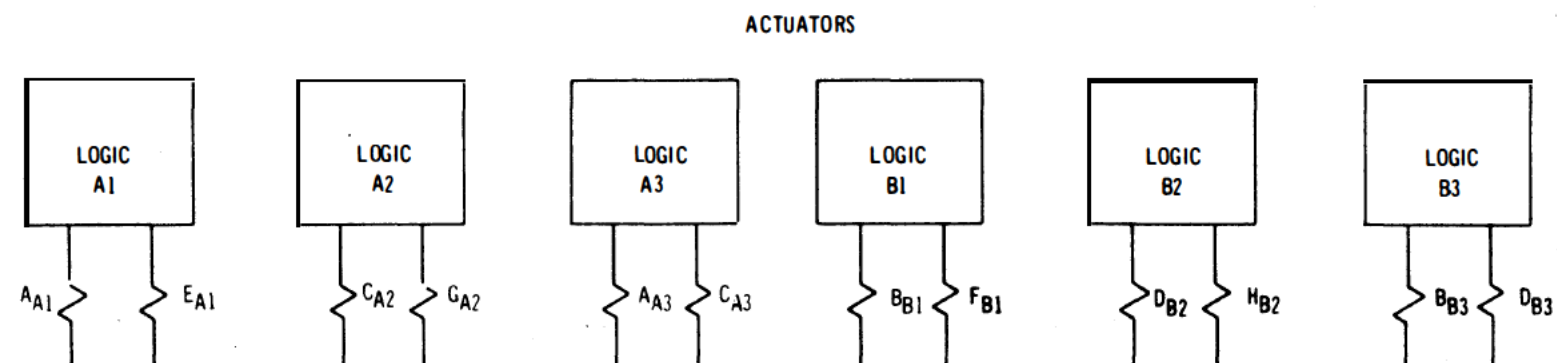
TYPICAL CONFIGURATION FOR MAIN
STEAM LINE ISOLATION SCRAM

Figure 7.2.3

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FIGURE 7.2.4



NOTE: CONTACTS SHOWN IN NORMAL CONDITION

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SCHEMATIC DIAGRAM OF ACTUATOR
AND ACTUATOR LOGICS

FIGURE 7.2.5

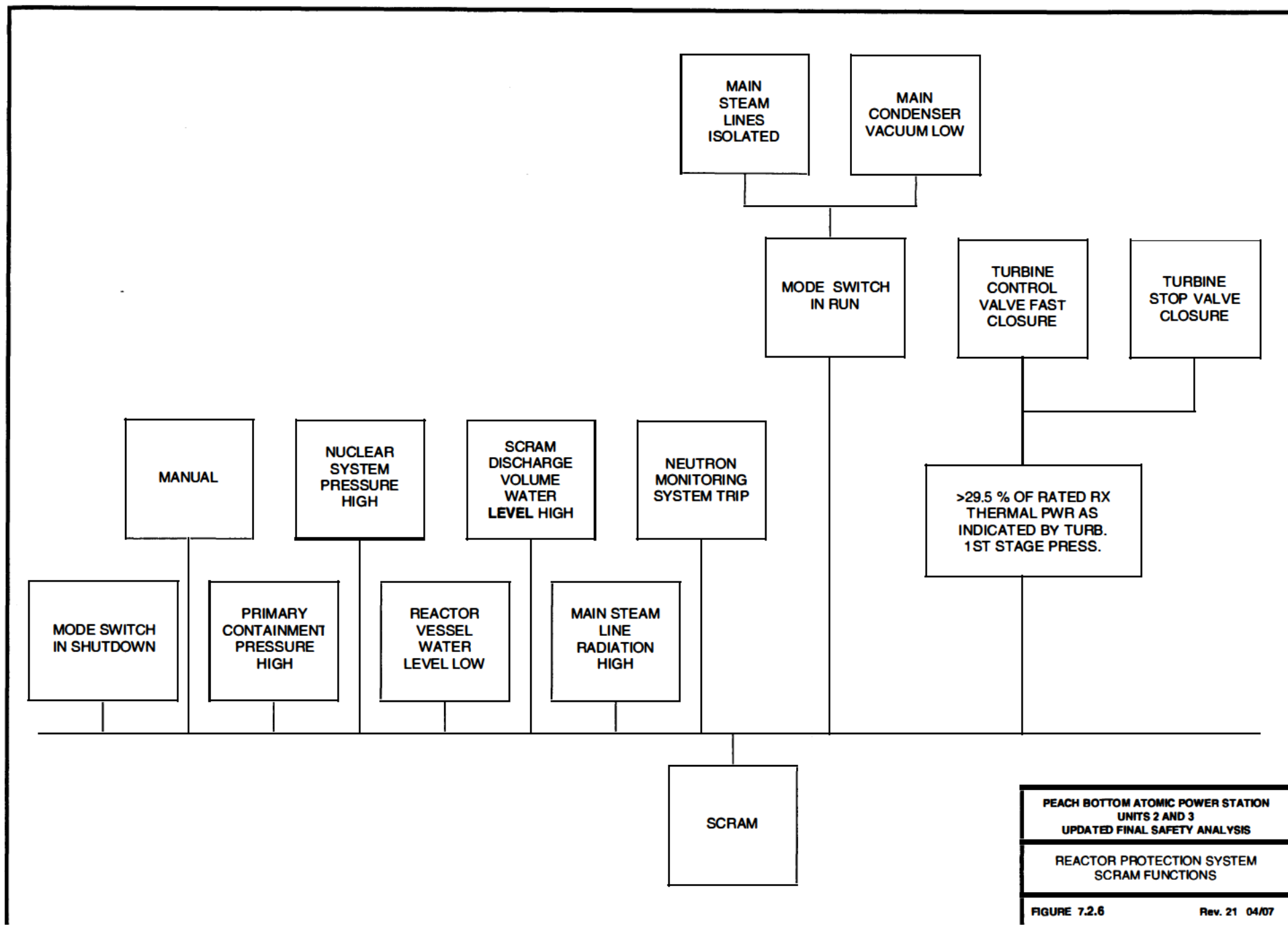
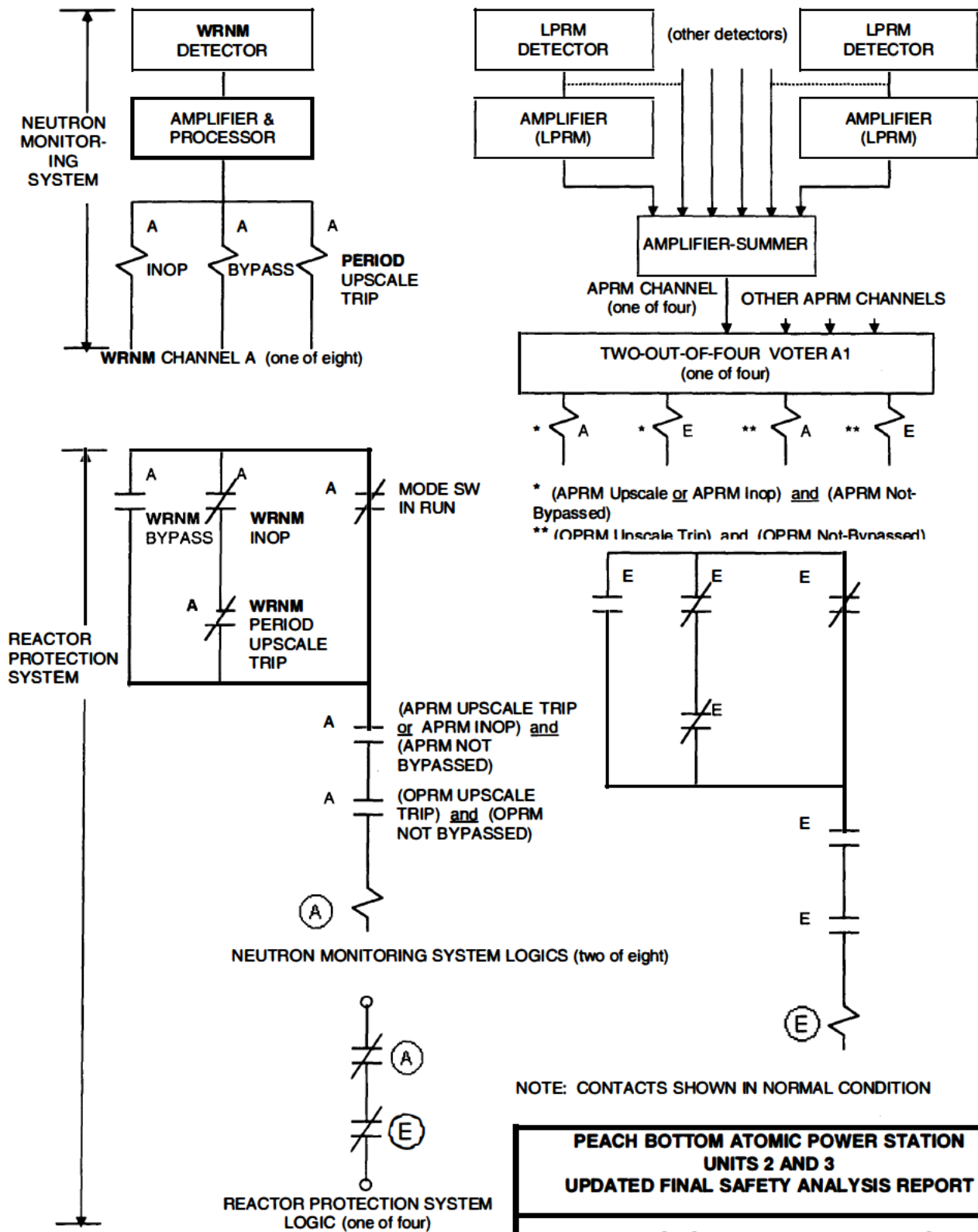


Figure 7.2.7

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NEUTRON MONITORING SYSTEM TRIP CHANNELS

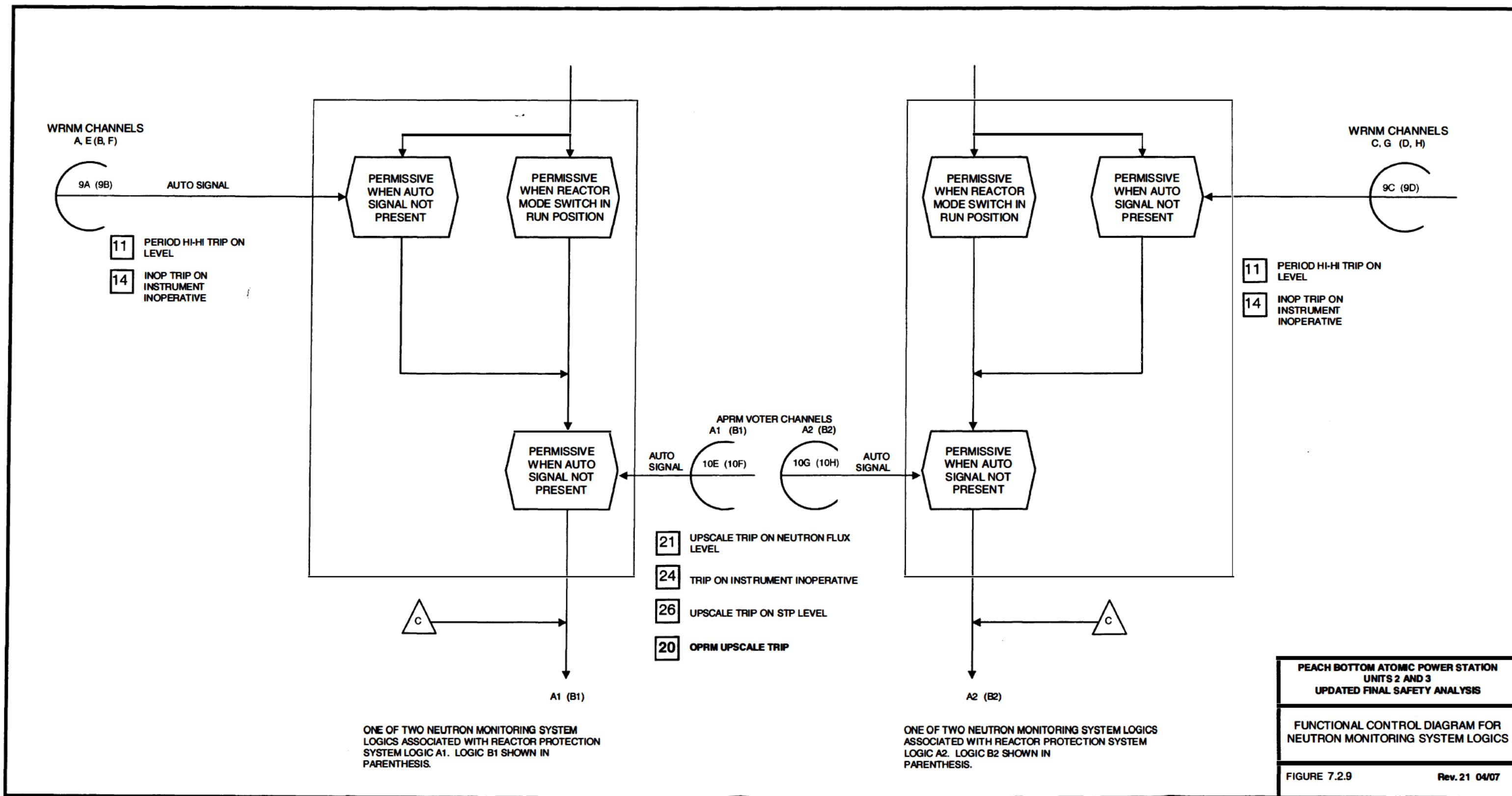


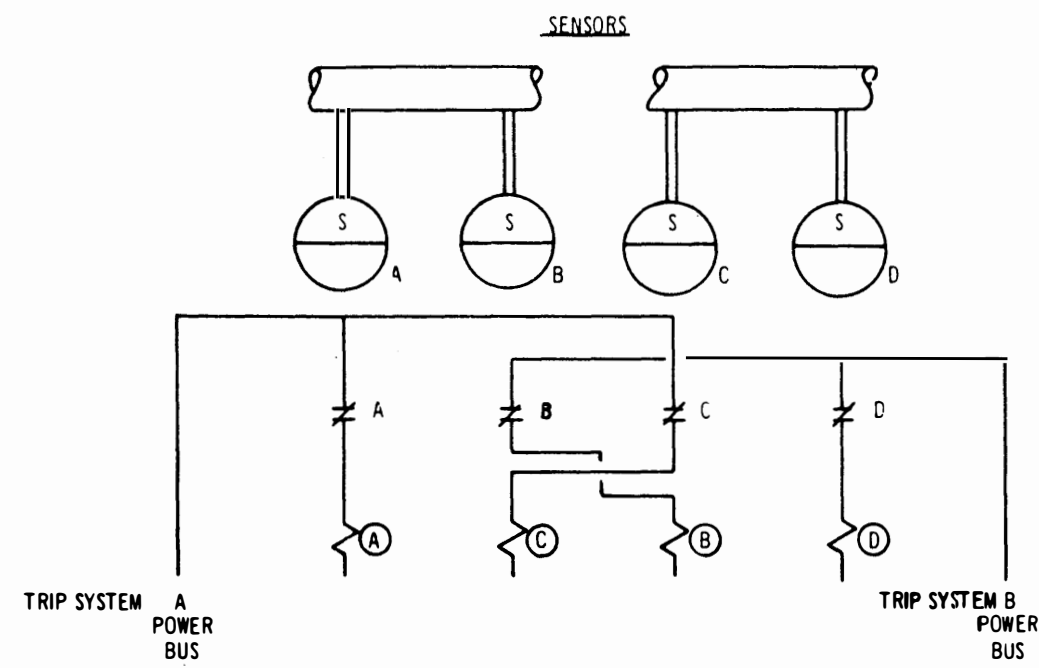
PEACH BOTTOM ATOMIC POWER STATION
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RELATIONSHIP BETWEEN NEUTRON
MONITORING SYSTEM AND REACTOR
PROTECTION SYSTEM

FIGURE 7.2.8

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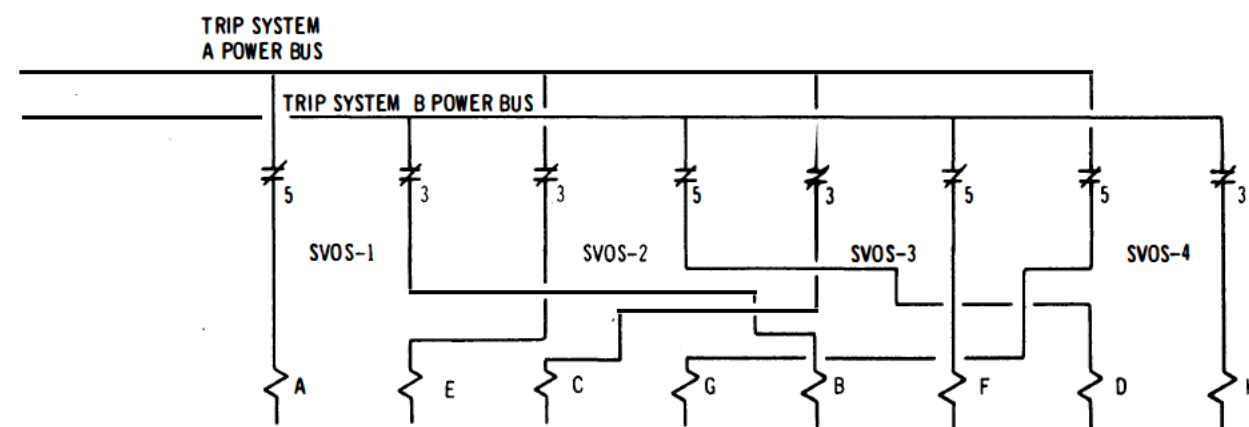
NOTE: CONTACTS SHOWN IN
NORMAL CONDITION

* A SENSOR MAY BE A SWITCH DIRECTLY ACTUATED BY A PROCESS PARAMETER, OR
MAY BE A COMBINATION OF A TRIP UNIT ACTUATED BY A TRANSMITTER
THAT SENSES A PROCESS PARAMETER

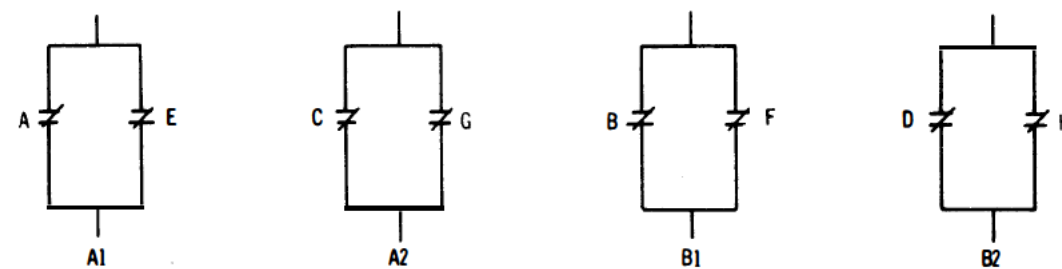
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UNITS 2 AND 3
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**TYPICAL ARRANGEMENT OF CHANNELS
AND LOGICS**

FIGURE 7.2.10 REV. 10 01/00



TURBINE STOP VALVE CLOSURE CHANNELS



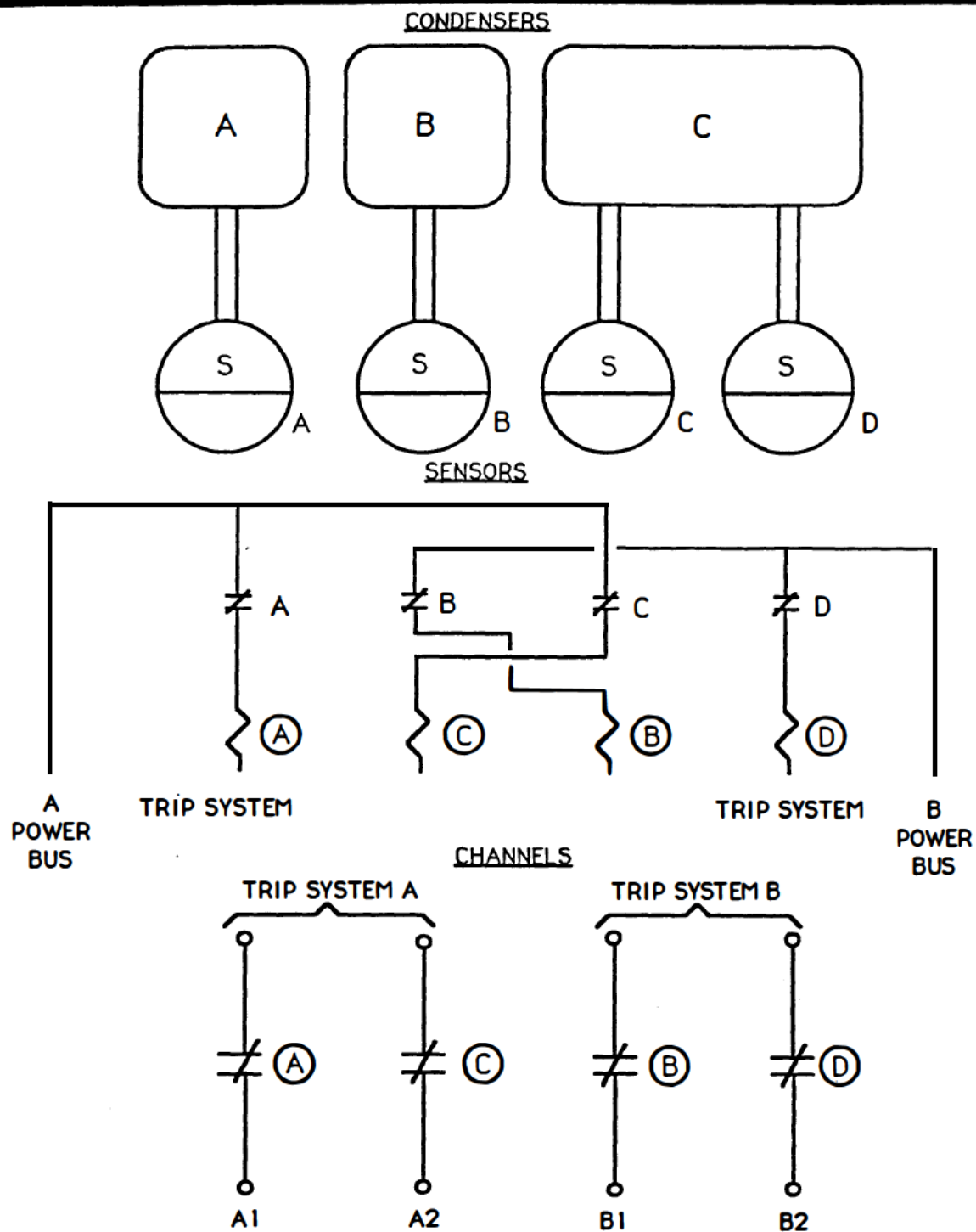
REACTOR PROTECTION SYSTEM LOGICS

NOTE: CONTACTS SHOWN IN NORMAL CONDITION

PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
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TYPICAL CONFIGURATION FOR TURBINE
STOP VALVE CLOSURE SCRAM

FIGURE 7.2.11



NOTES:

CONTACTS SHOWN IN NORMAL CONDITION

A SENSOR MAY BE A SWITCH DIRECTLY ACTUATED BY A PROCESS PARAMETER, OR MAY BE A COMBINATION OF A TRIP UNIT ACTUATED BY A TRANSMITTER THAT SENSES A PROCESS PARAMETER.

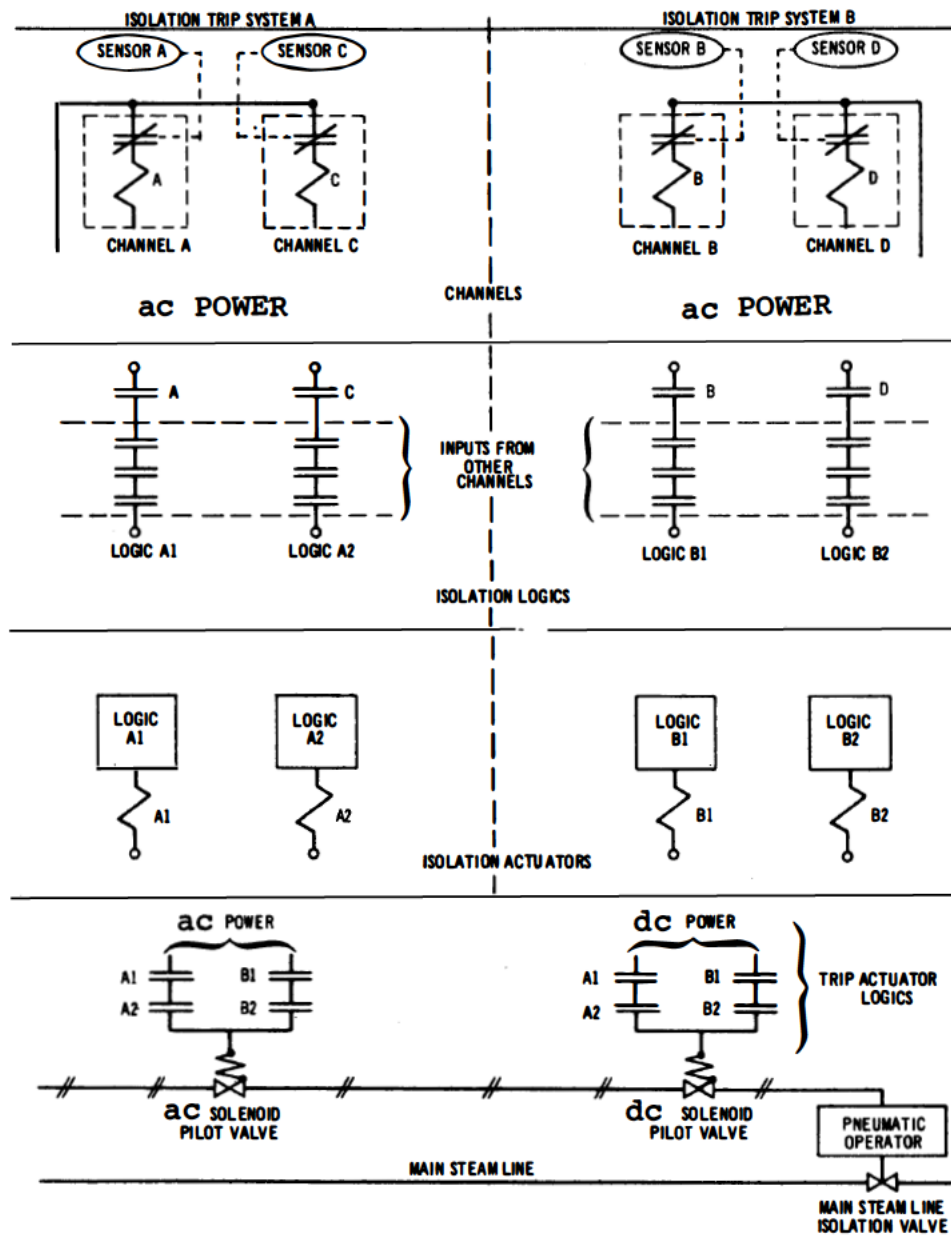
PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
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REPORT

TYPICAL ARRANGEMENT OF CONDENSER
PRESSURE INSTRUMENT CHANNELS
AND LOGICS

FIGURE 7.2.12 REV. 10 01/92

Figure 7.3.1

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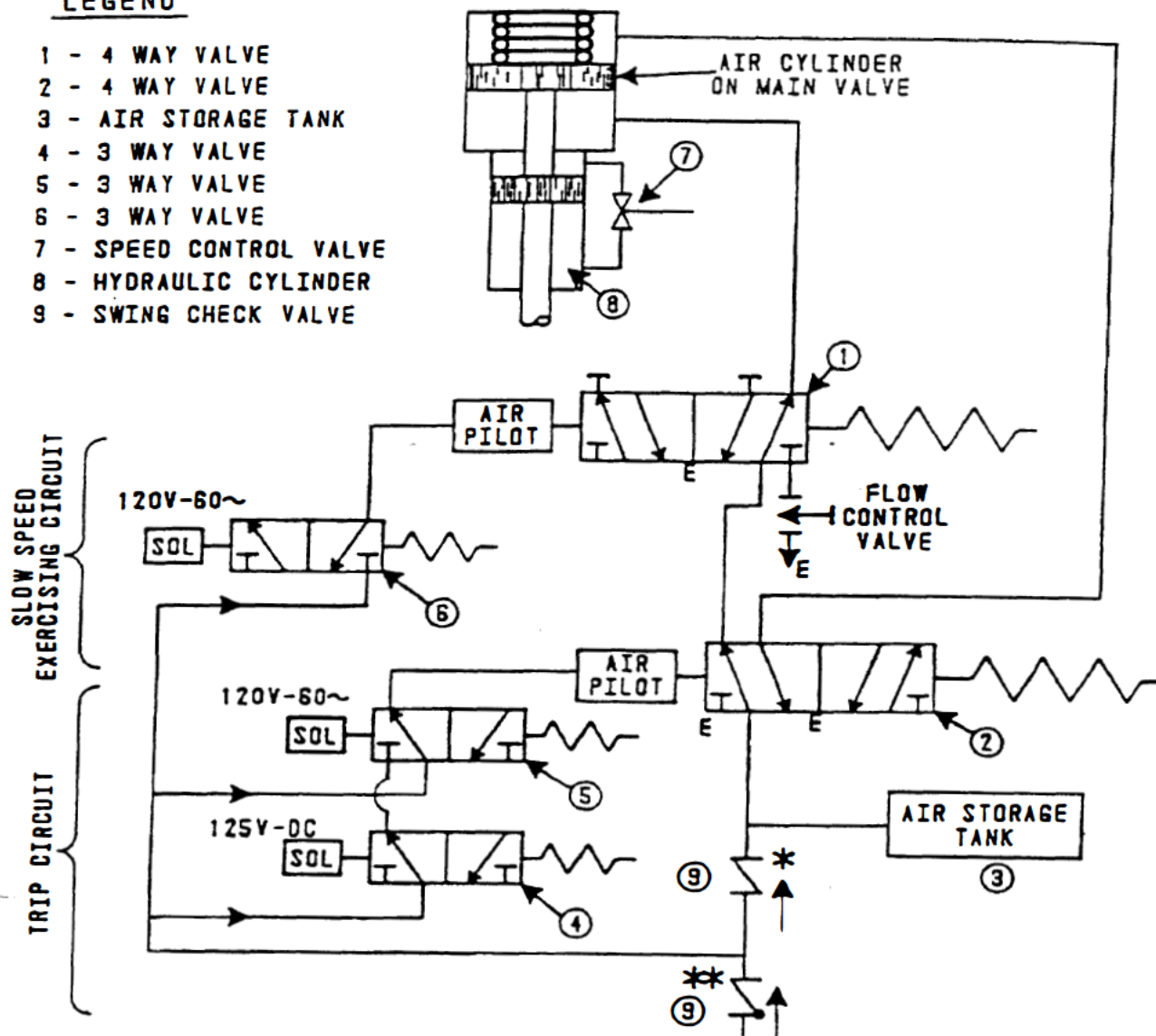
**TYPICAL ISOLATION CONTROL SYSTEM
FOR MAIN STEAM LINE ISOLATION
VALVES**

FIGURE 7.3.3

(MAIN VALVE IN OPEN POSITION)

LEGEND

- 1 - 4 WAY VALVE
- 2 - 4 WAY VALVE
- 3 - AIR STORAGE TANK
- 4 - 3 WAY VALVE
- 5 - 3 WAY VALVE
- 6 - 3 WAY VALVE
- 7 - SPEED CONTROL VALVE
- 8 - HYDRAULIC CYLINDER
- 9 - SWING CHECK VALVE



* OUTBOARD MSIV ONLY

** INBOARD MSIV ONLY

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 & 3
UPDATED FINAL SAFETY ANALYSIS REPORT

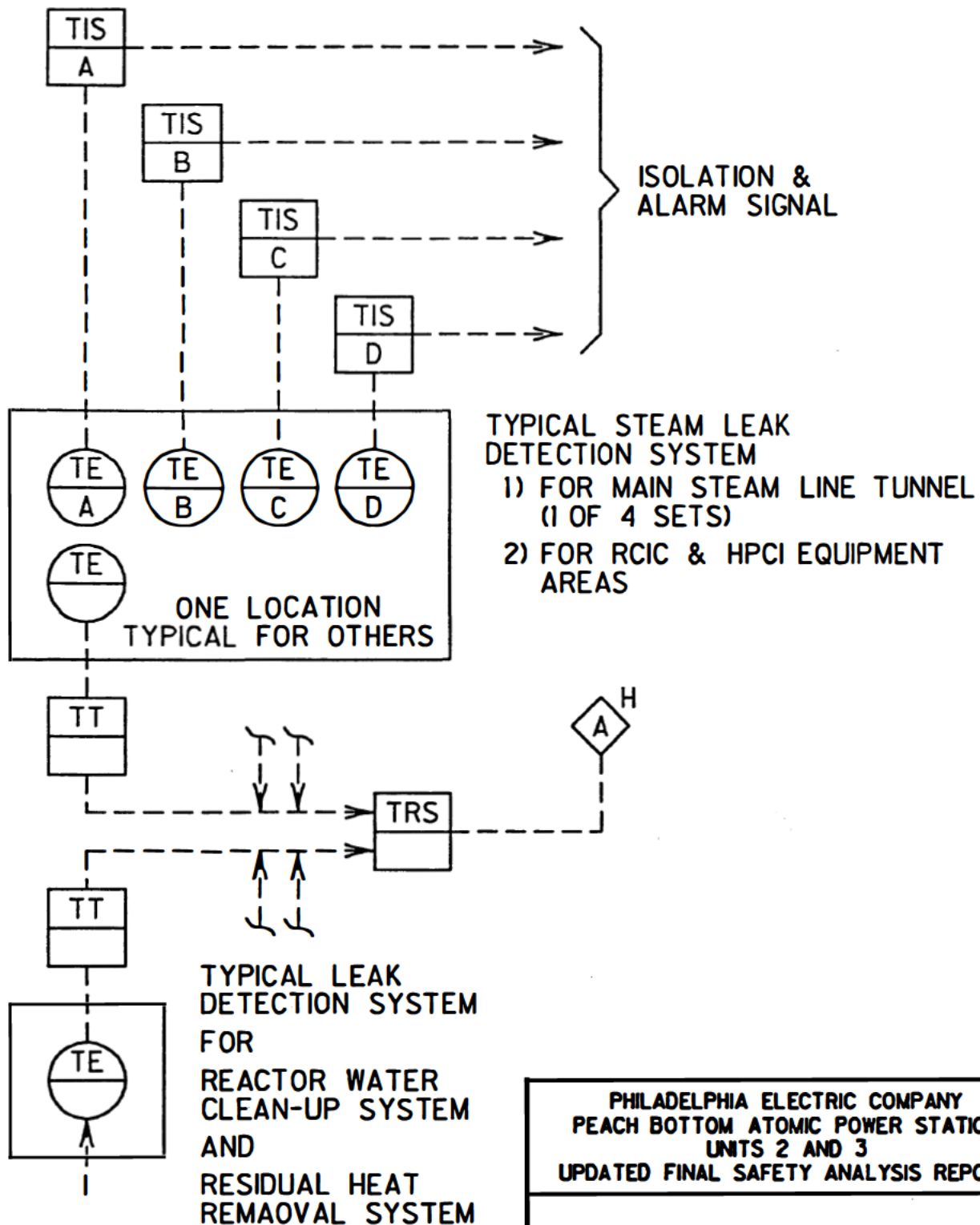
MAIN STEAM LINE ISOLATION VALVE
SCHEMATIC CONTROL DIAGRAM

FIGURE 7.3.4

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Figure 7.3.5a thru 7.3.5J

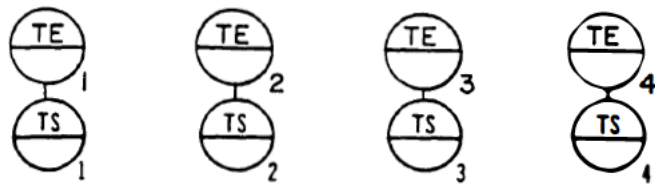
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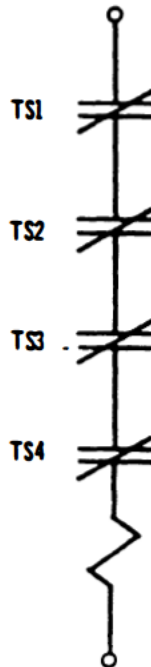
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AREA AND COMPARTMENT LEAKAGE
DETECTION BY TEMPERATURE
MEASUREMENT

TEMPERATURE SWITCHES
(TYPICAL OF 4 SETS)



MAIN STEAM LINE SPACE
HIGH TEMPERATURE CHANNEL,
(TYPICAL OF 4 CHANNELS)

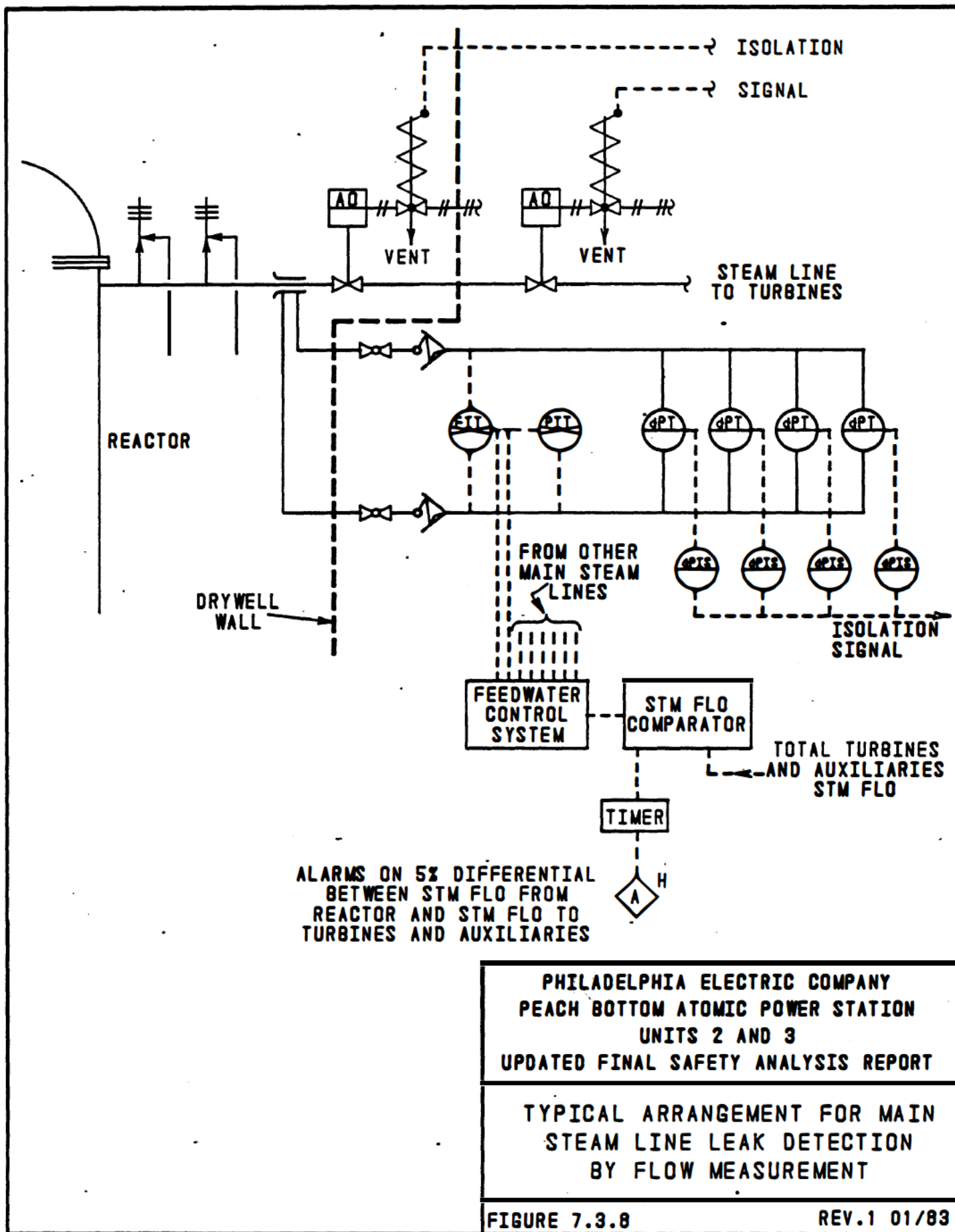


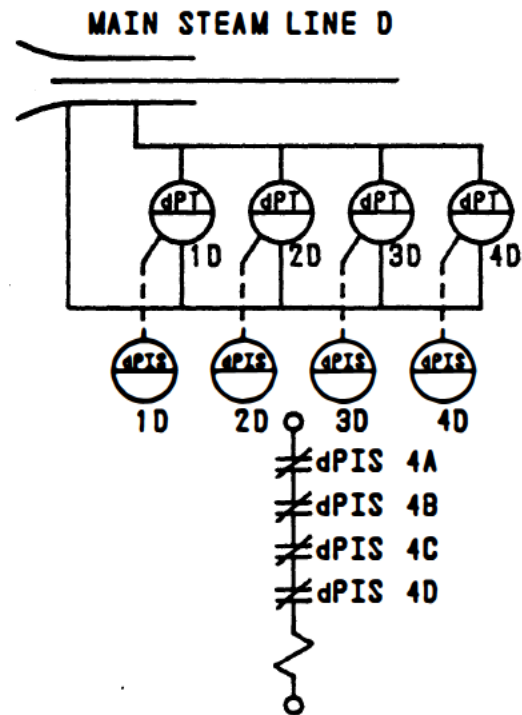
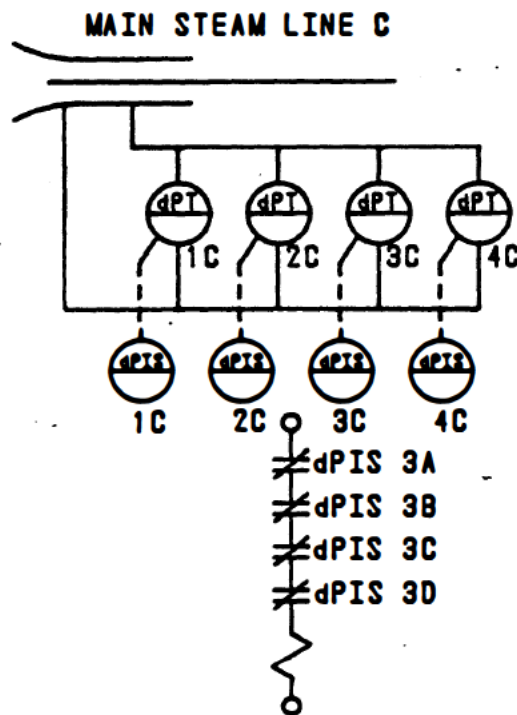
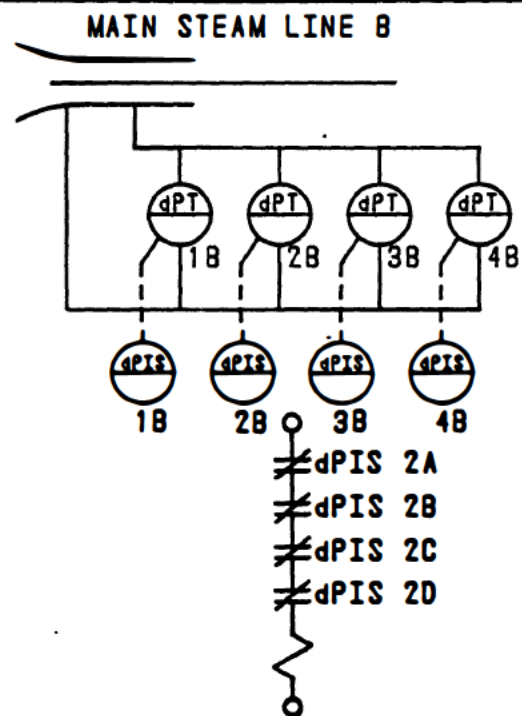
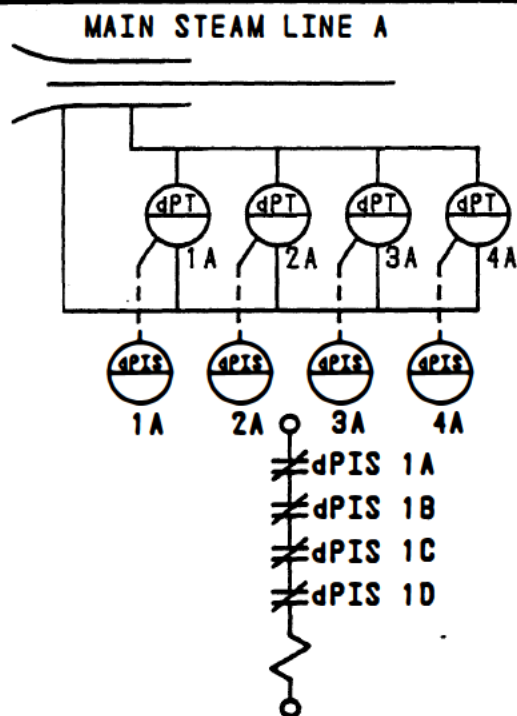
PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
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UPDATED FINAL SAFETY ANALYSIS REPORT

TYPICAL MAIN STEAM LINE SPACE HIGH
TEMPERATURE CHANNEL

FIGURE 7.3.7

REV. 14 05/97



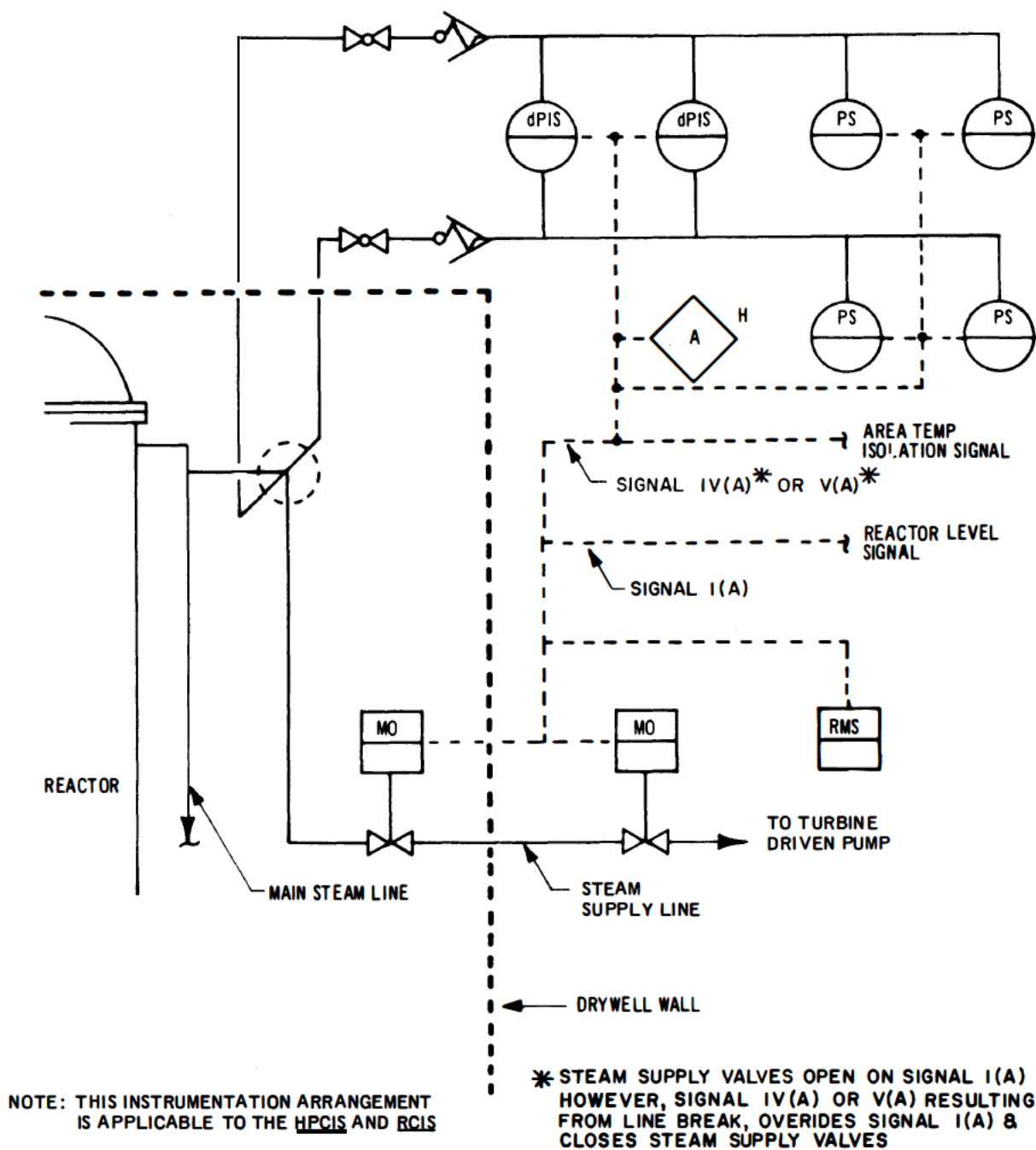


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MAIN STEAM LINE
HIGH FLOW CHANNELS

FIGURE 7.3.9

REV.1 01/83



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UNITS 2 AND 3
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**TYPICAL ELBOW TAP ARRANGEMENT
FOR GROSS LEAK DETECTION**

FIGURE 7.3.10

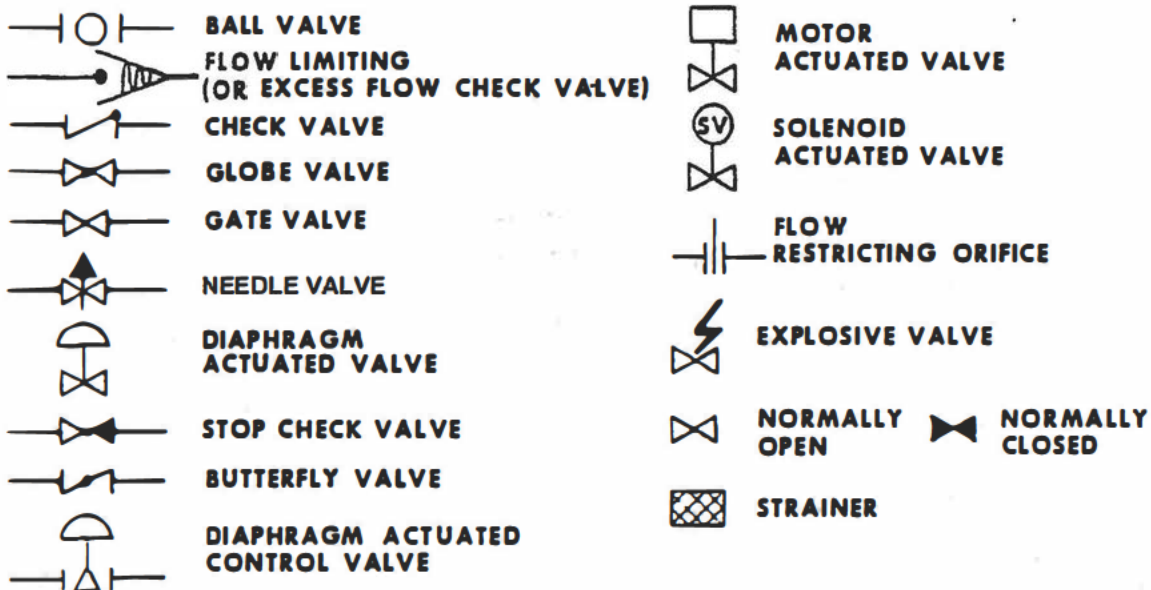
LETTERS

AO
MO
TC
RCS
TCK
SV
RO
LC
CV
XV
PSD

DESCRIPTION

AIR OPERATED VALVE
MOTOR OPERATED VALVE
TEST CONNECTION
REACTOR COOLANT SYSTEM
TESTABLE CHECK VALVE
SOLENOID OPERATED VALVE
FLOW RESTRICTING ORIFICE
VALVE LOCKED CLOSED
CONTROL VALVE
EXPLOSIVE VALVE
RUPTURE DISC

SYMBOLS

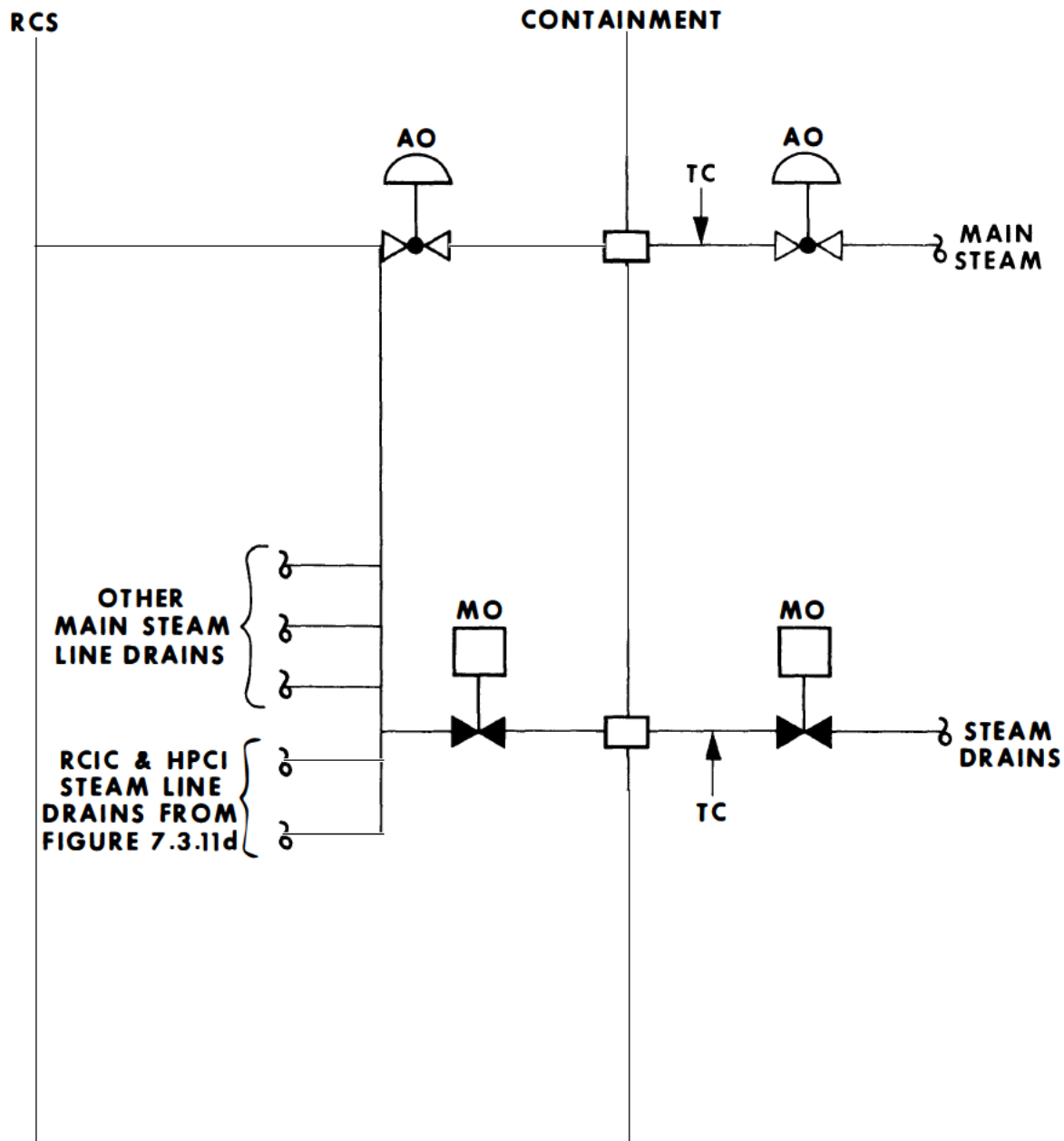


NOTES:

1. VALVES ARE SHOWN IN POSITION CORRESPONDING TO NORMAL POWER OPERATION.
2. DOTTED VALVES DO NOT NORMALLY PERFORM A CONTAINMENT ISOLATION FUNCTION OTHER THAN PROCESS FLUID RETENTION.

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LEGEND FOR CONTAINMENT ISOLATION
VALVE ARRANGEMENT

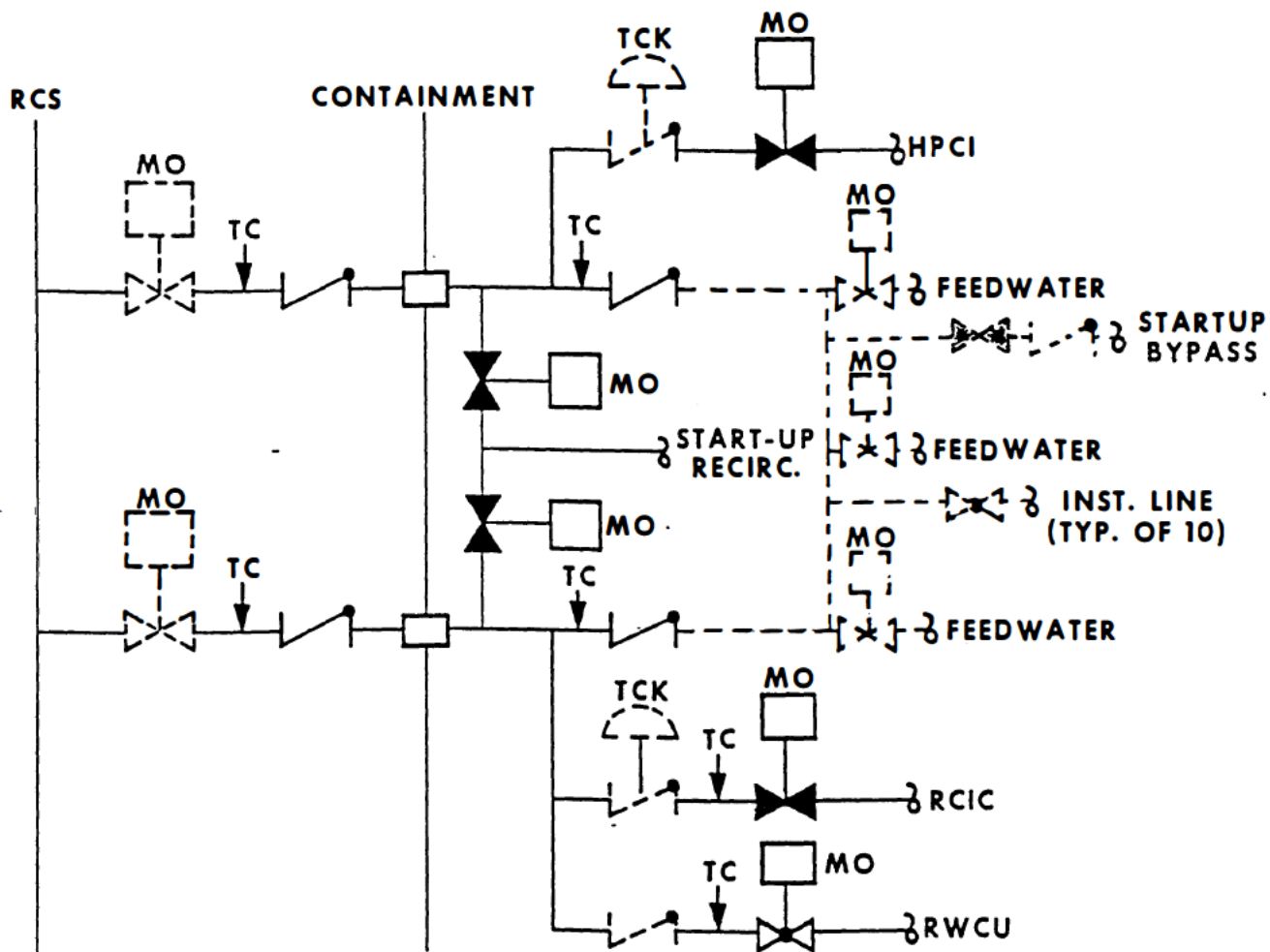


PENETRATION NUMBERS: N-7 A TO D & N-8

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MAIN STEAM LINE
AND MAIN STEAM LINE DRAINS

FIGURE 7.3.11b



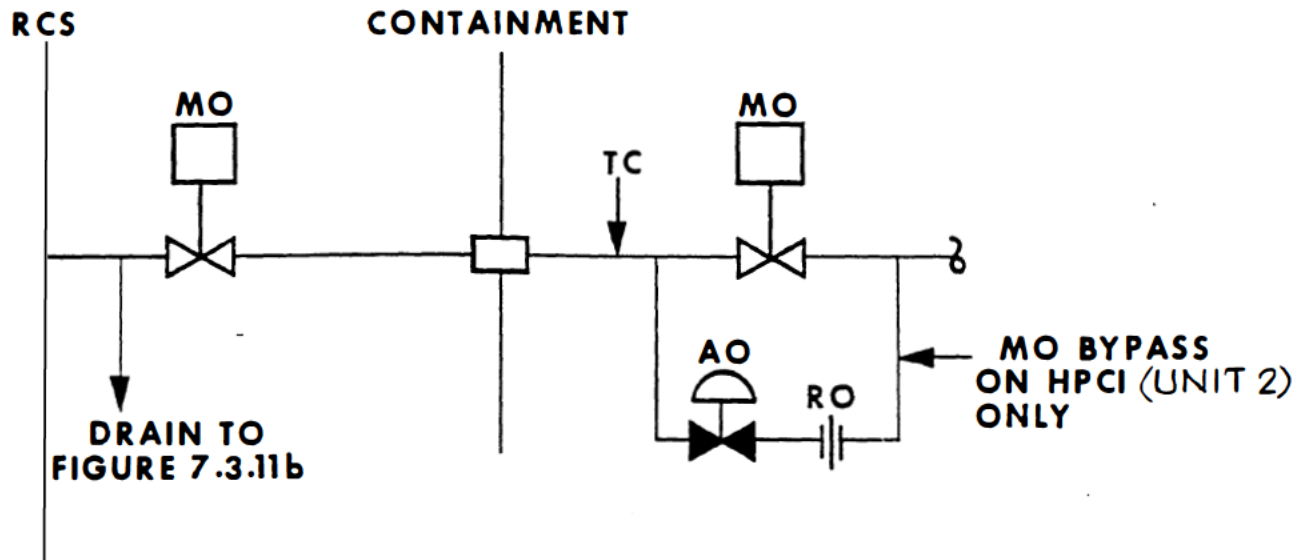
PENETRATION NUMBERS: N-9 A & B

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FEEDWATER

FIGURE 7.3.11c

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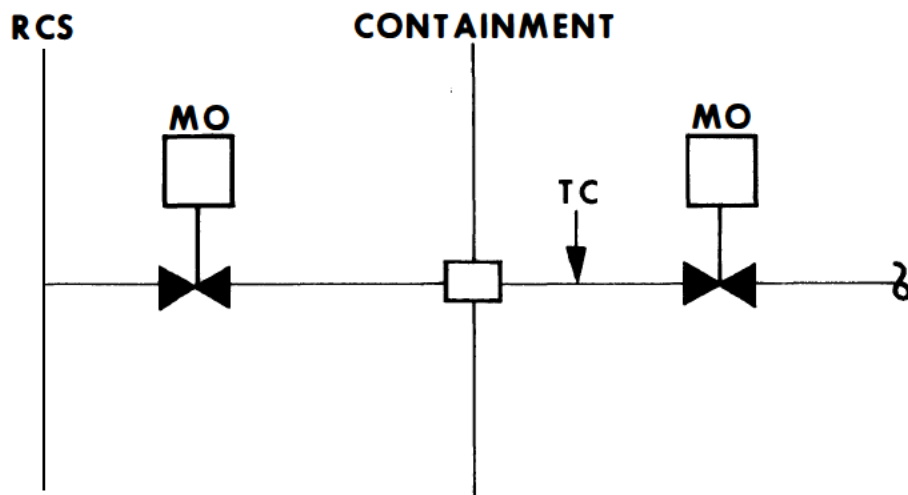
PENETRATION NUMBERS: N-10 & N-11

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UPDATED FINAL SAFETY ANALYSIS REPORT**

RCIC AND HPCI STEAM SUPPLIES

FIGURE 7.3.11d

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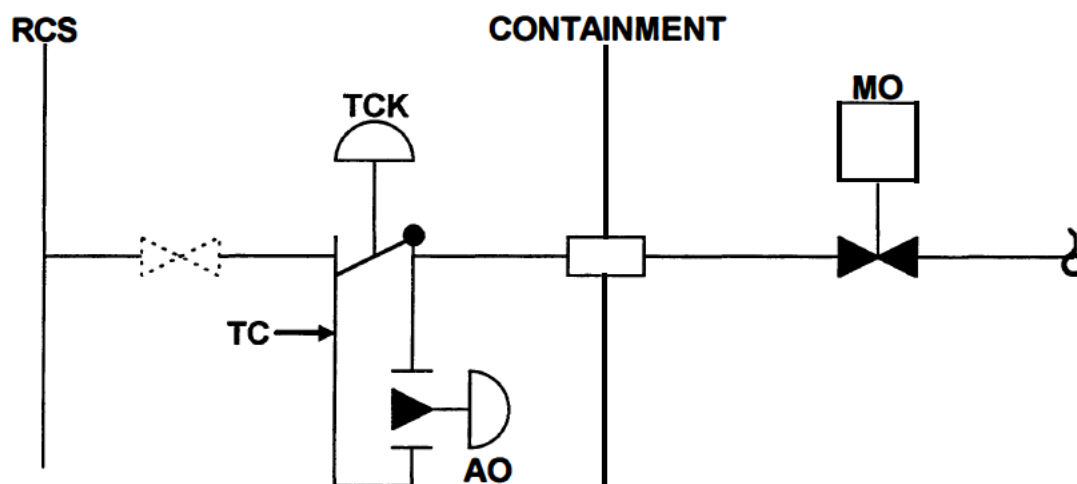


PENETRATION NUMBER: N-12

**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

RHR SHUTDOWN COOLING SUCTION

FIGURE 7.3.11e



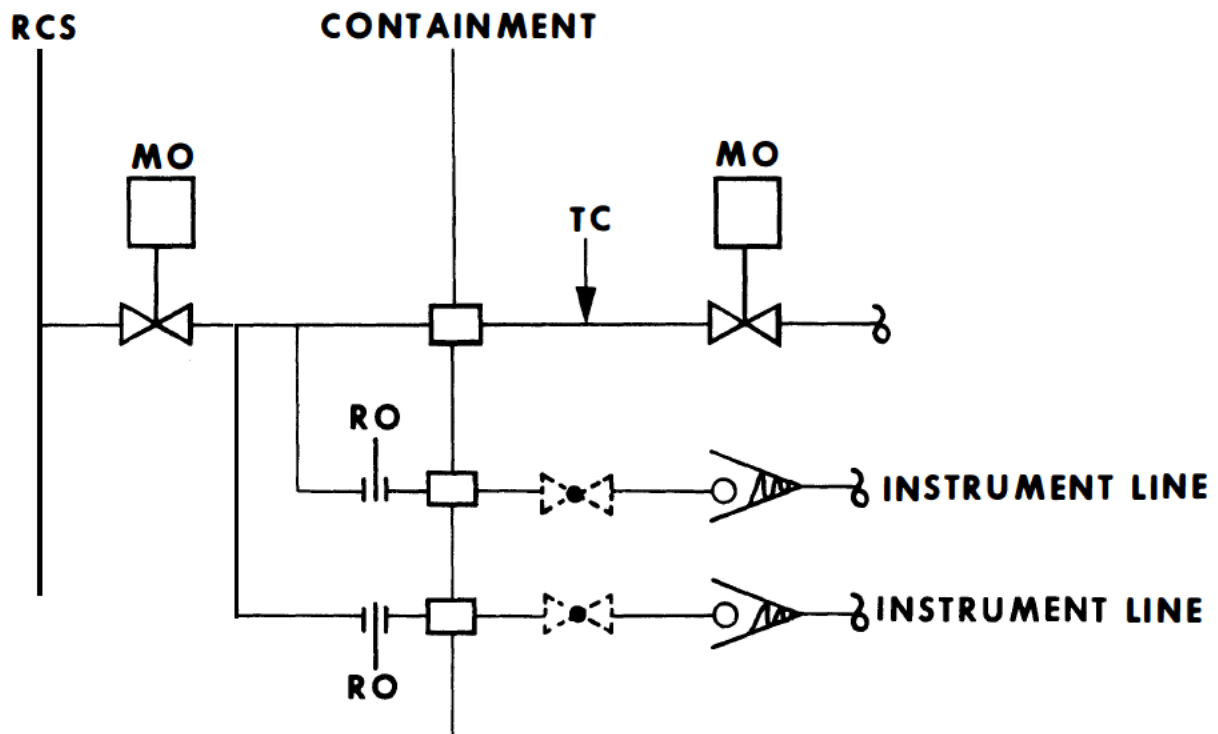
PENETRATION NUMBERS: N-13 A & B AND N-16 A & B

**PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**RHR SHUTDOWN COOLING RETURN
AND CORE SPRAY DISCHARGE**

FIGURE 7.3.11f

Rev. 17 04/00



PENETRATION NUMBERS: N-14 & N-50 D,E

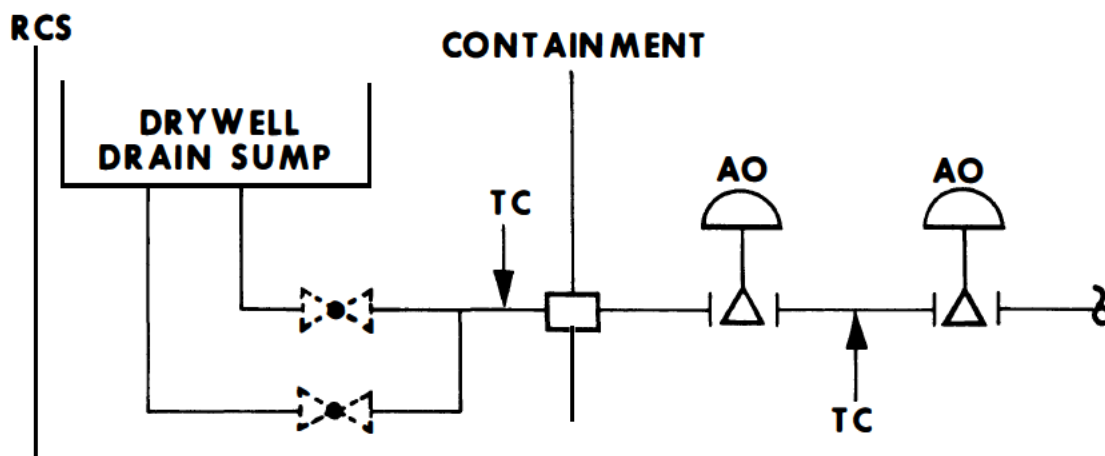
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**REACTOR WATER CLEANUP PUMP SUCTION
INSTRUMENT LINE**

FIGURE 7.3.11g

Figure 7.3.11h

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PENETRATION NUMBERS: N-18 & N-19

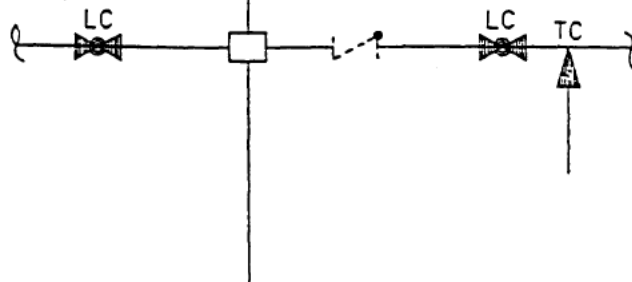
**PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
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**DRYWELL EQUIPMENT DRAIN SUMP PUMP
DISCHARGE, DRYWELL FLOOR DRAIN
SUMP PUMP DISCHARGE**

FIGURE 7.3.11i

RCS

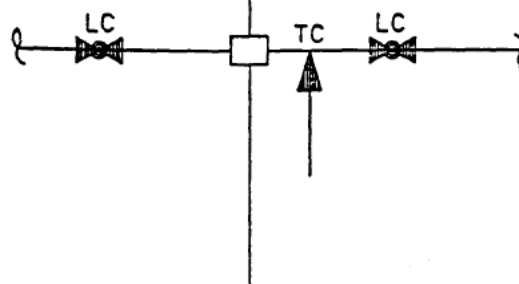
CONTAINMENT



PENETRATION NUMBERS: N-21

RCS

CONTAINMENT



PENETRATION NUMBERS: N-102 BD (UNIT 3)

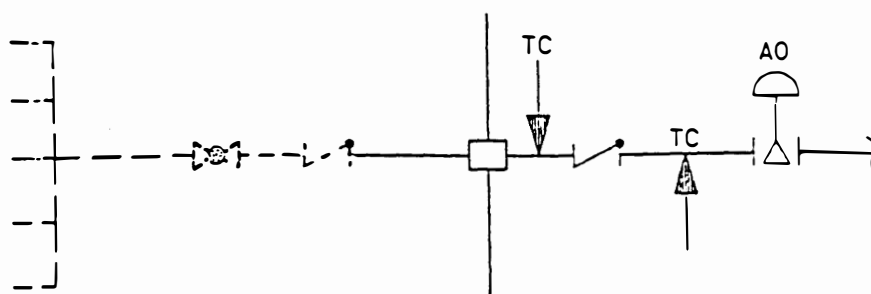
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UNITS 2 AND 3
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SERVICE AIR SUPPLY AND
BREATHING AIR SUPPLY

FIGURE 7.3.11j

REV. 14 05/97

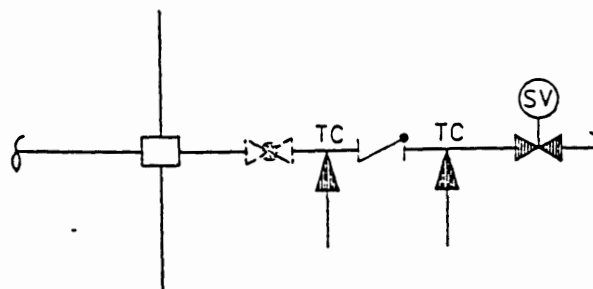
RCS



PENETRATION NUMBERS: N-22 & N-218A

RCS

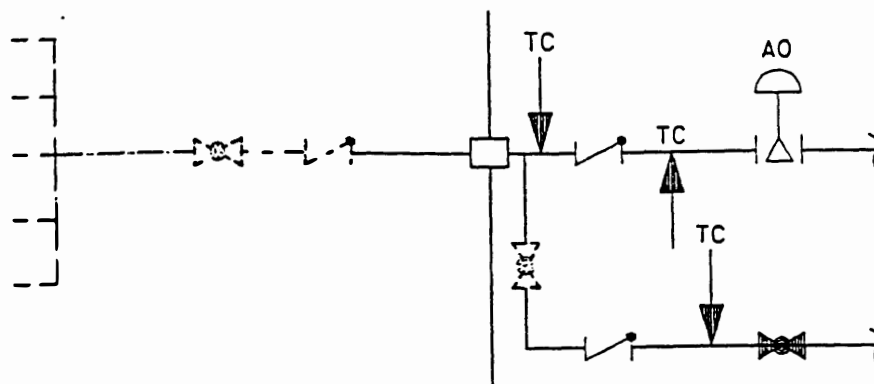
CONTAINMENT



PENETRATION NUMBERS: N-47 & N-102BC

RCS

CONTAINMENT



PENETRATION NUMBER: N-52F

PECO ENERGY COMPANY
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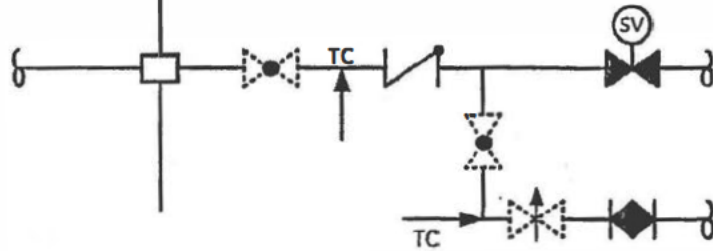
INSTRUMENT NITROGEN
SUPPLY

FIGURE 7.3.11k

REV. 14 05/97

RCS

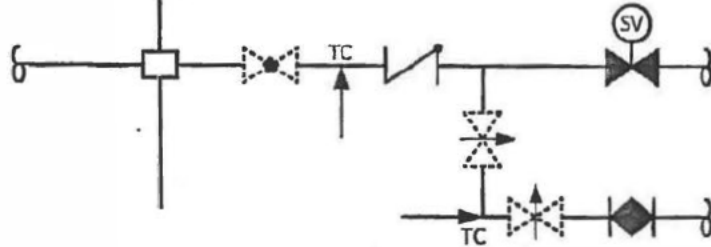
CONTAINMENT



PENETRATION NUMBERS: N-47 (Unit 2)

RCS

CONTAINMENT

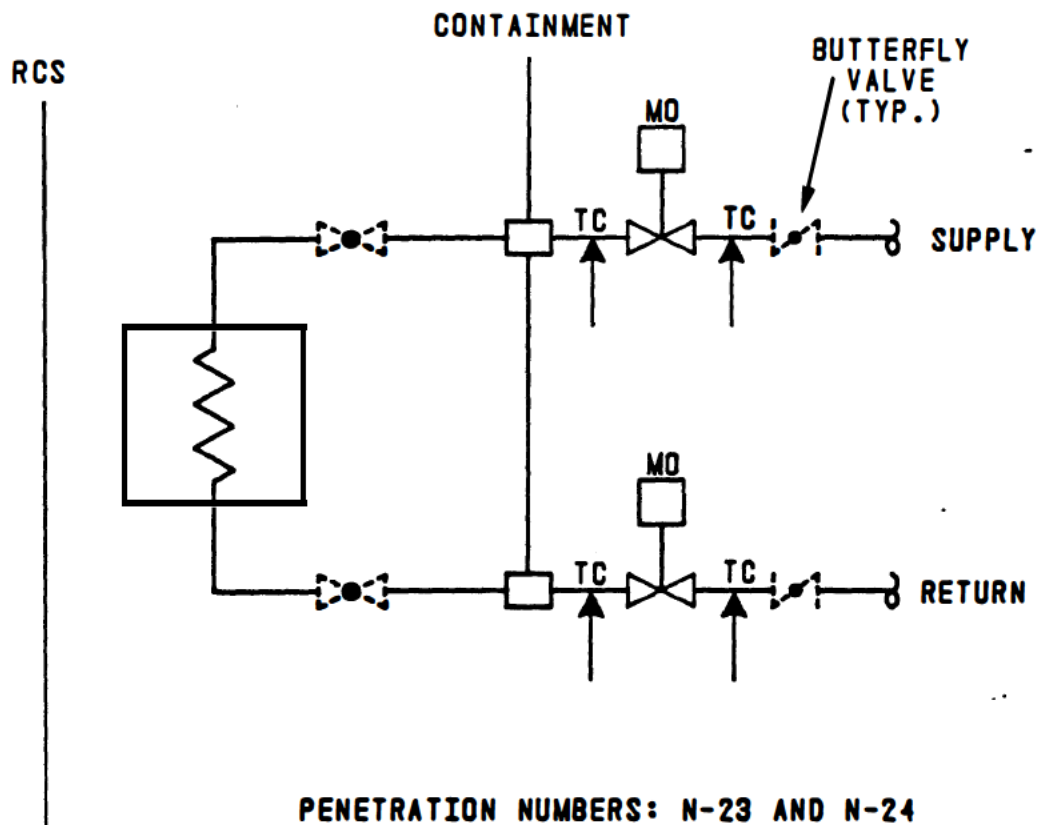


PENETRATION NUMBERS: N-47 (Unit 3)

PEACH BOTTOM ATOMIC POWER STATION
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INSTRUMENT NITROGEN
SUPPLY

FIGURE 7.3.11k Sh. 2 of 2 REV. 27 04/19



PENETRATION NUMBERS: N-23 AND N-24

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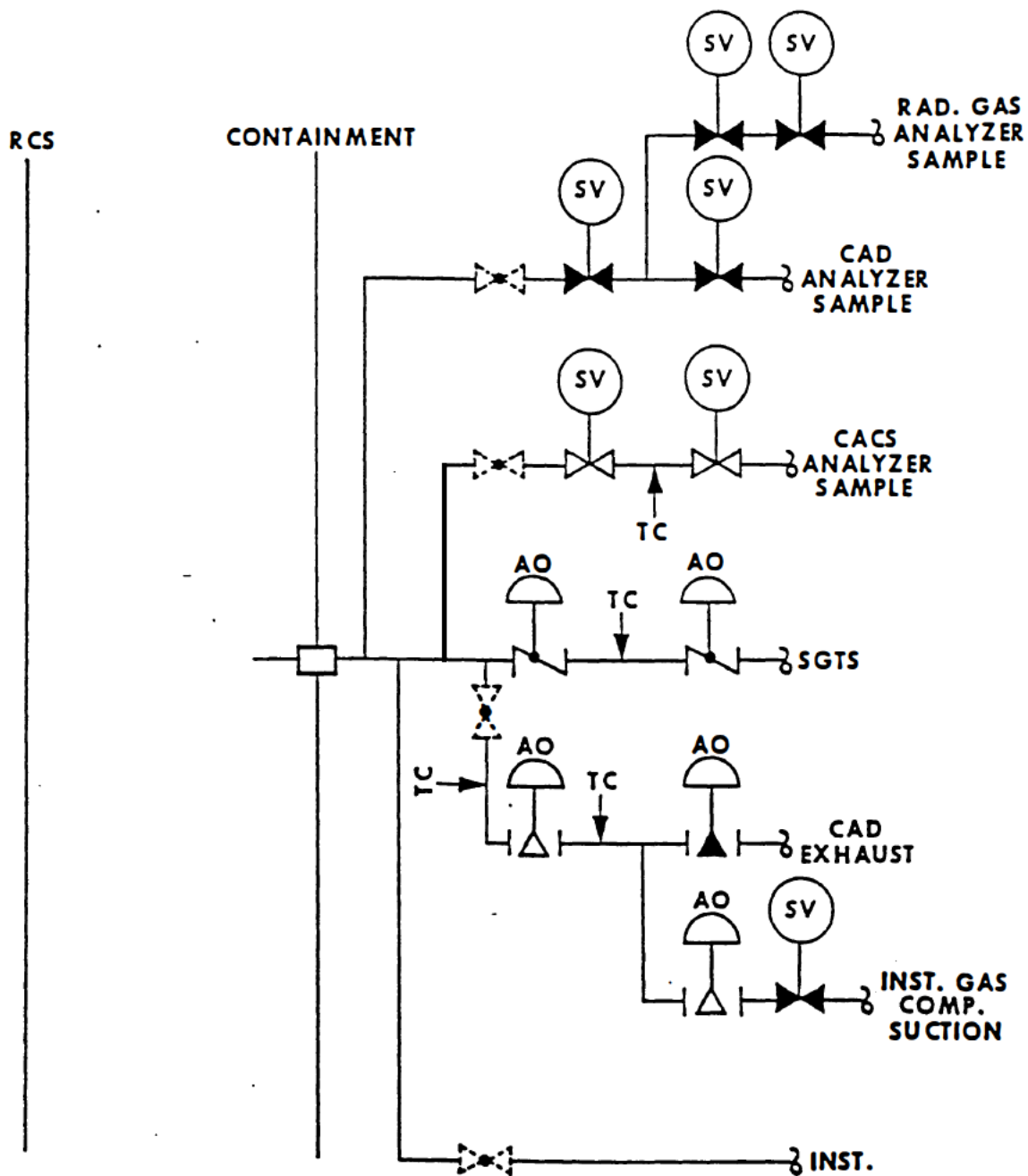
REACTOR BUILDING COOLING WATER

FIGURE 7.3.111

REV.1 01/83



FIGURE 7.3.11m



PENETRATION NUMBER: N-26

**PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWERSTATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

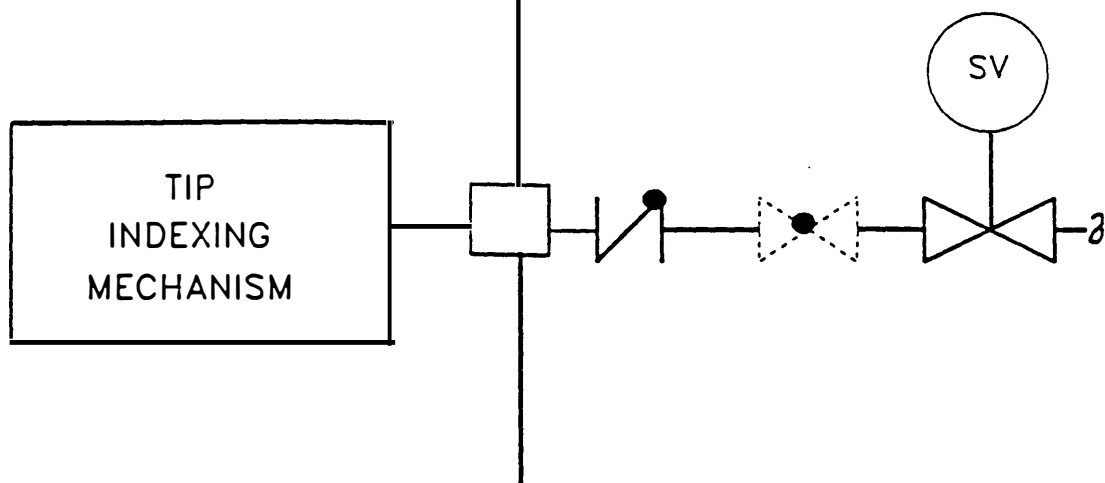
DRYWELL PURGE EXHAUST

FIGURE 7.3.11n

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PENETRATION NUMBER: N-35D - UNIT 2
N-35C - UNIT 3

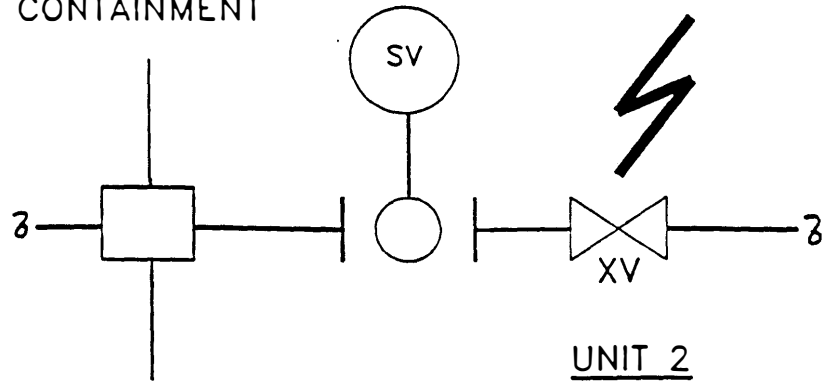
PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

TIP PURGE

FIGURE 7.3.11o REV. 14 05/97

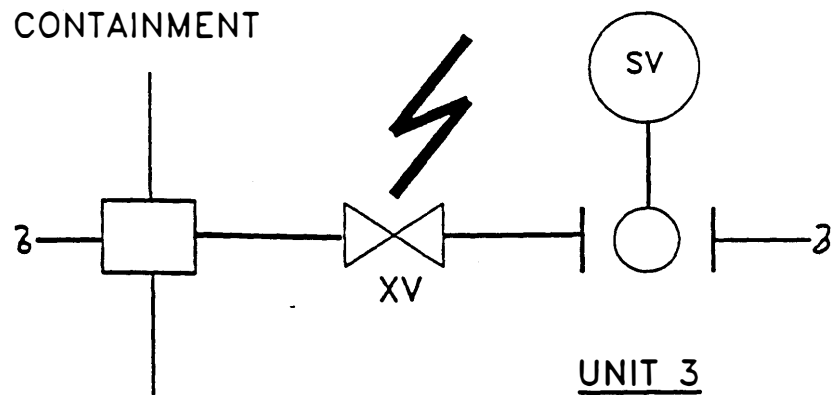
RCS

CONTAINMENT



RCS

CONTAINMENT



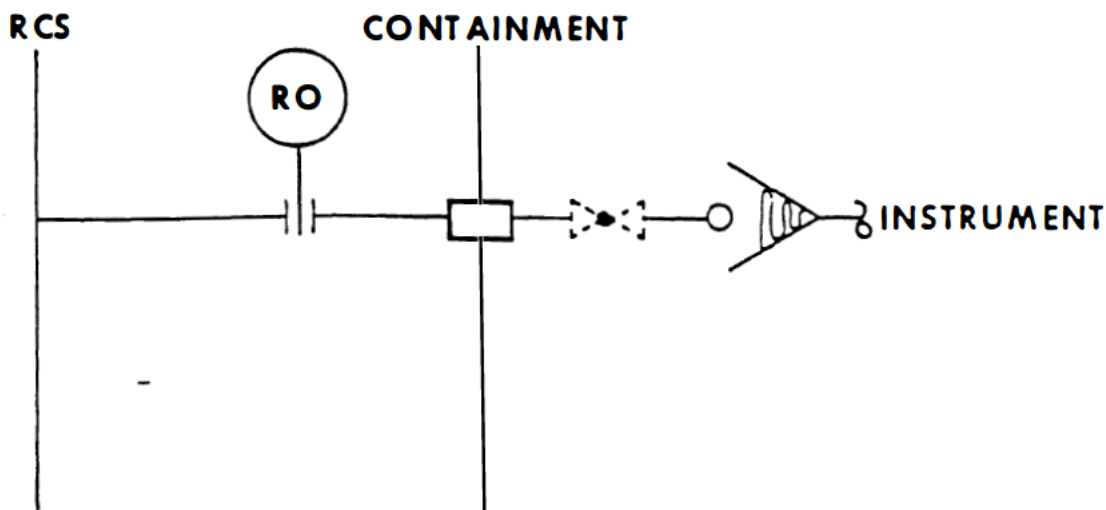
PENETRATION NUMBERS: N-35 E,F,G - UNIT 2

N-35 E,F,G - UNIT 3

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

TIP DRIVES

FIGURE 7.3.11p REV. 14 05/97



PENETRATION NUMBERS: N-26 A & B,
 N-27 E & F, N-28 A, B, C, D, & F
 N-30 A TO F,
 N-32 A, B, E & F, N-33 A TO D,
 N-34 A TO F, N-40 A TO D,
 N-50 A, B, C, D, E, N-51 E, AND N-52 E
 N-29A, D & E (UNIT 2)
 N-29F, N-100B-A, 100B-D (UNIT 3)
 N-27A, C (UNIT 2)
 N-31 A TO D

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 PEACH BOTTOM ATOMIC POWER STATION
 UNITS 2 AND 3
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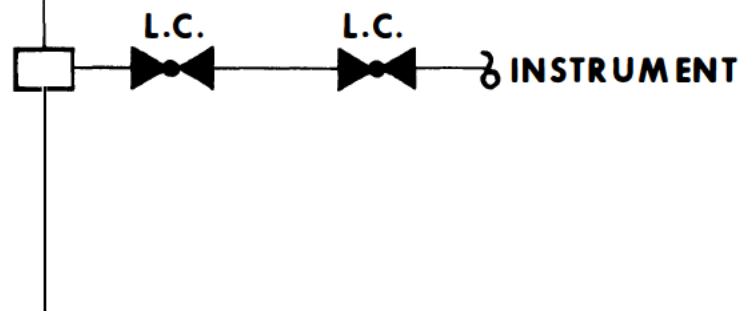
INSTRUMENT LINES

Figure 7.3.11r

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RCS

CONTAINMENT



PENETRATION NUMBERS: N-32 C, D AND N-218 C

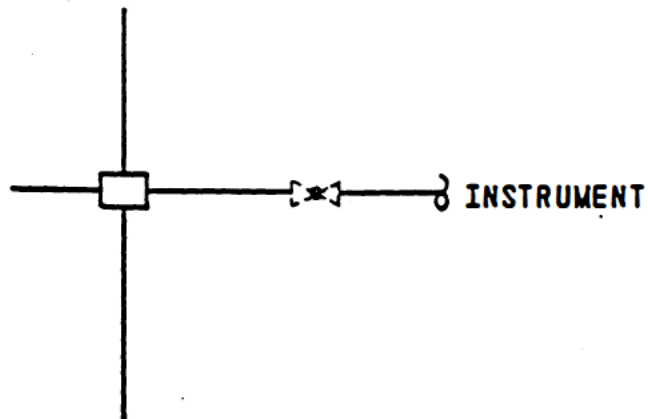
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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**INTEGRATED LEAK RATE TEST
CONNECTIONS**

FIGURE 7.3.11s

RCS

CONTAINMENT



PENETRATION NUMBERS: N-33F
N-46A,B (UNIT 3)
N-49B,C (UNIT 3)
N-49E,F (UNIT 2)
N-102BA,BB (UNIT 2)

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

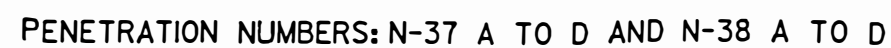
INSTRUMENT LINES
DRYWELL PRESSURE

FIGURE 7.3.11t

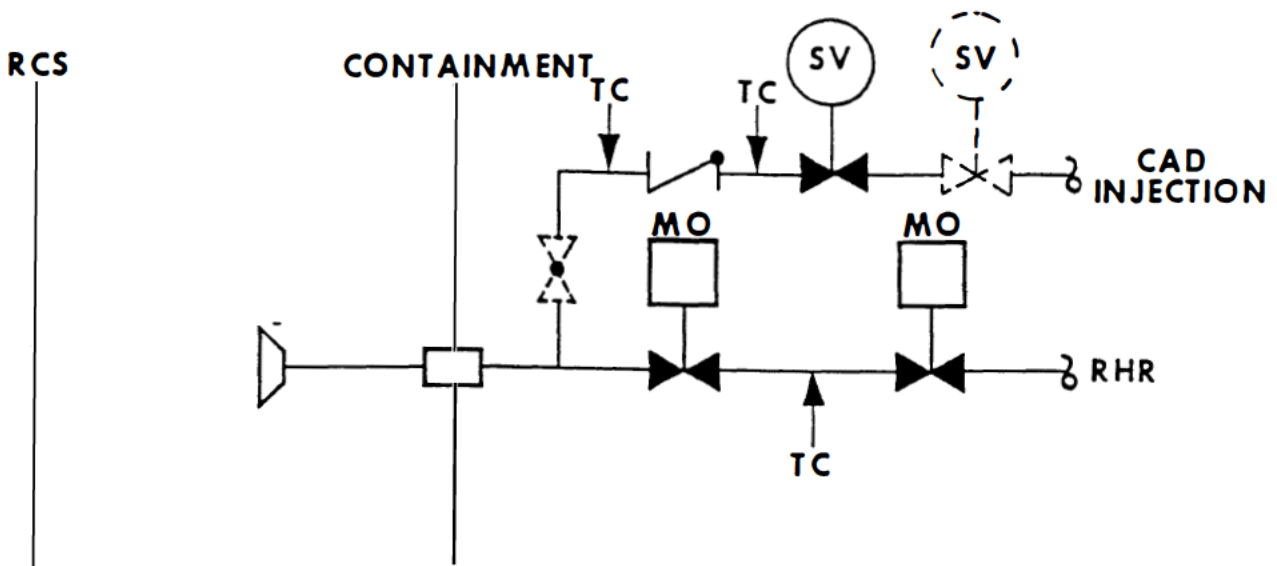
REV. 14 05/97

Figure 7.3.11u

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REV. 14 05/97



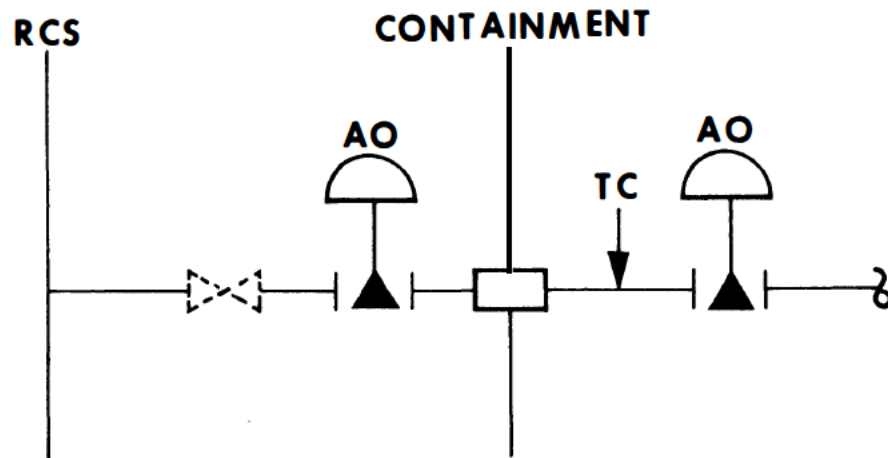
PENETRATION NUMBERS: N-39 A & B

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PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

RHR CONTAINMENT SPRAY

FIGURE 7.3.11W

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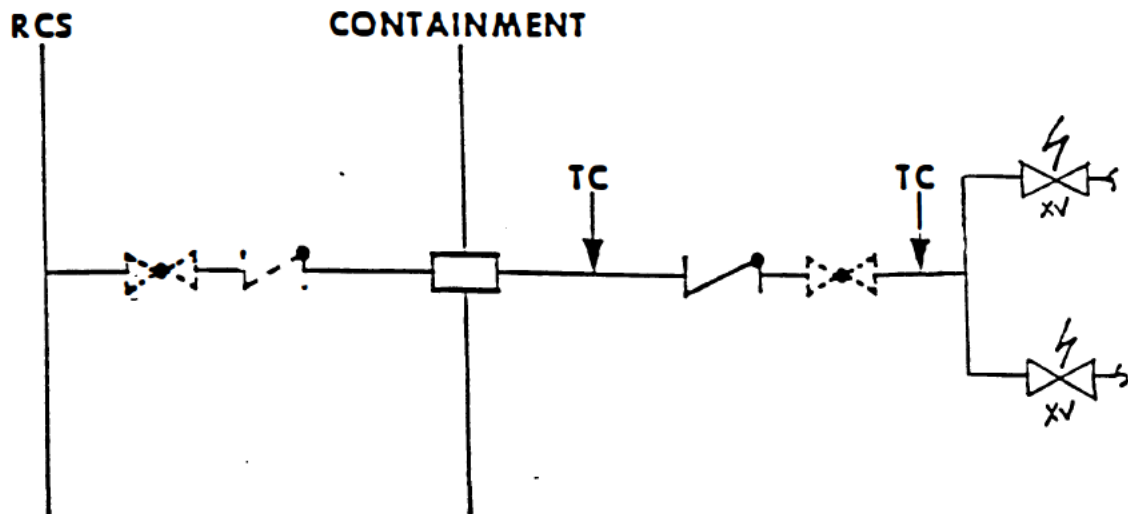


PENETRATION NUMBERS: N-41 & N-57

**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**RECIRCULATION LOOP AND MAIN STEAM
SAMPLES**

FIGURE 7.3.11x



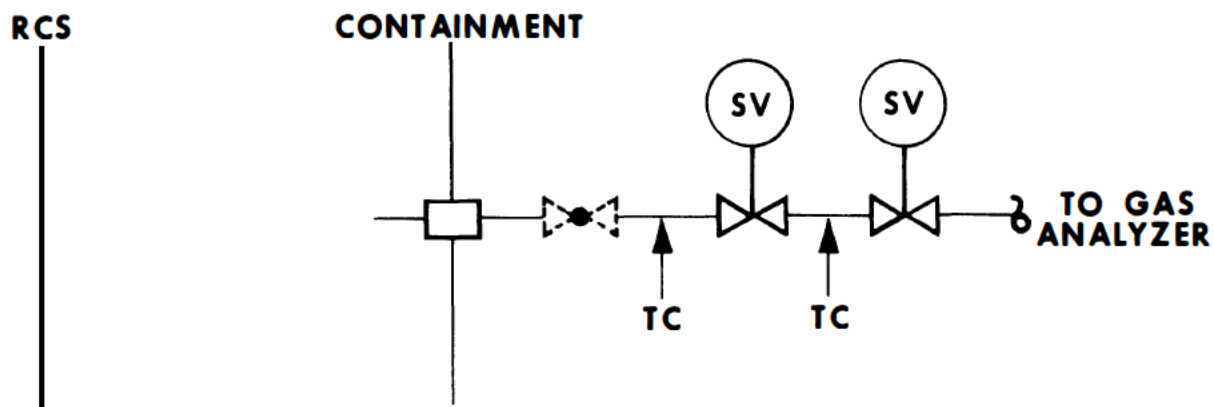
PENETRATION NUMBER: N-42

PECO ENERGY COMPANY
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STANDBY LIQUID CONTROL

FIGURE 7.3.11y

REV. 14 05/97

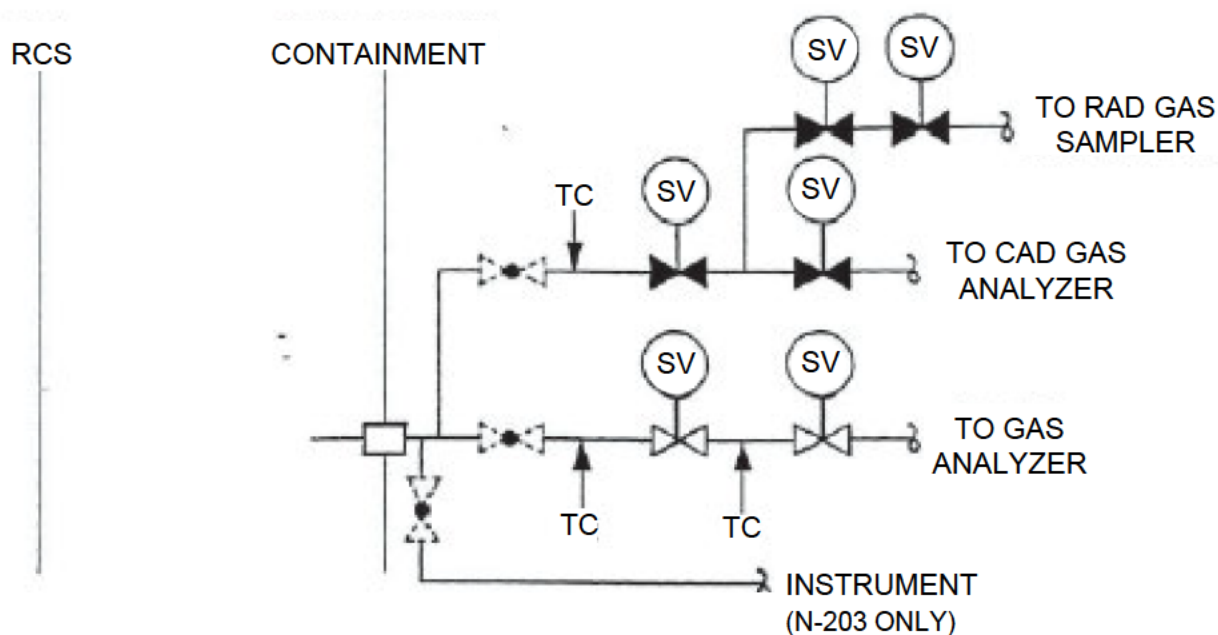


PENETRATION NUMBERS: N-51 A, B & N-218 B

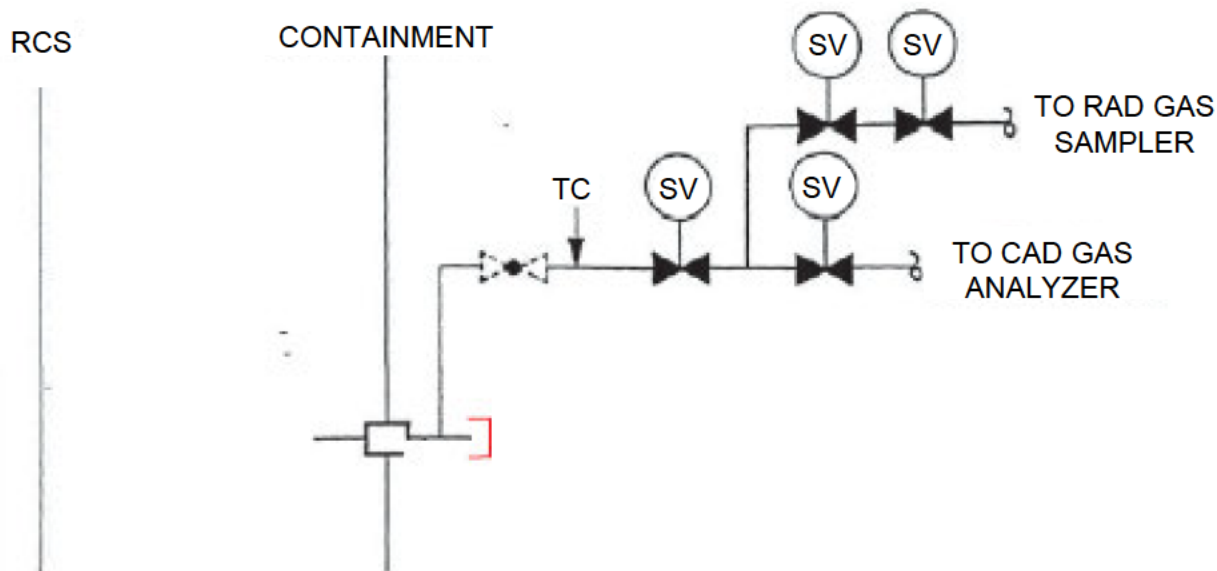
**PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
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**CONTAINMENT ATMOSPHERIC
CONTROL SYSTEM SAMPLE
LINES**

FIGURE 7.3.11z



PENETRATION NUMBERS: N-203 ONLY



PENETRATION NUMBERS: N-51 C

PEACH BOTTOM POWER STATION
UNITS 2 AND 3
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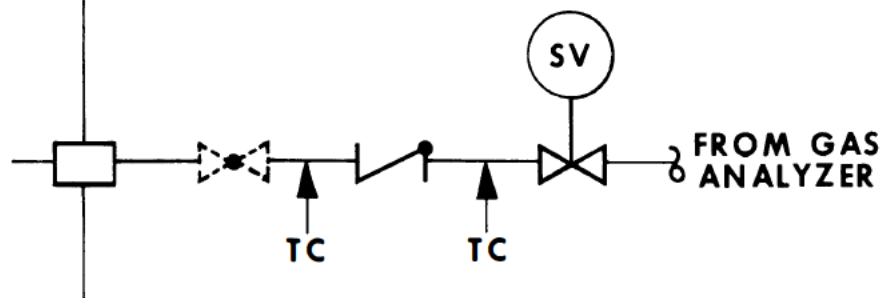
CONTAINMENT ATMOSPHERIC
CONTROL SYSTEM/CADS
SAMPLE LINES

FIGURE 7.3.11aa

REV. 28 04/21

RCS

CONTAINMENT

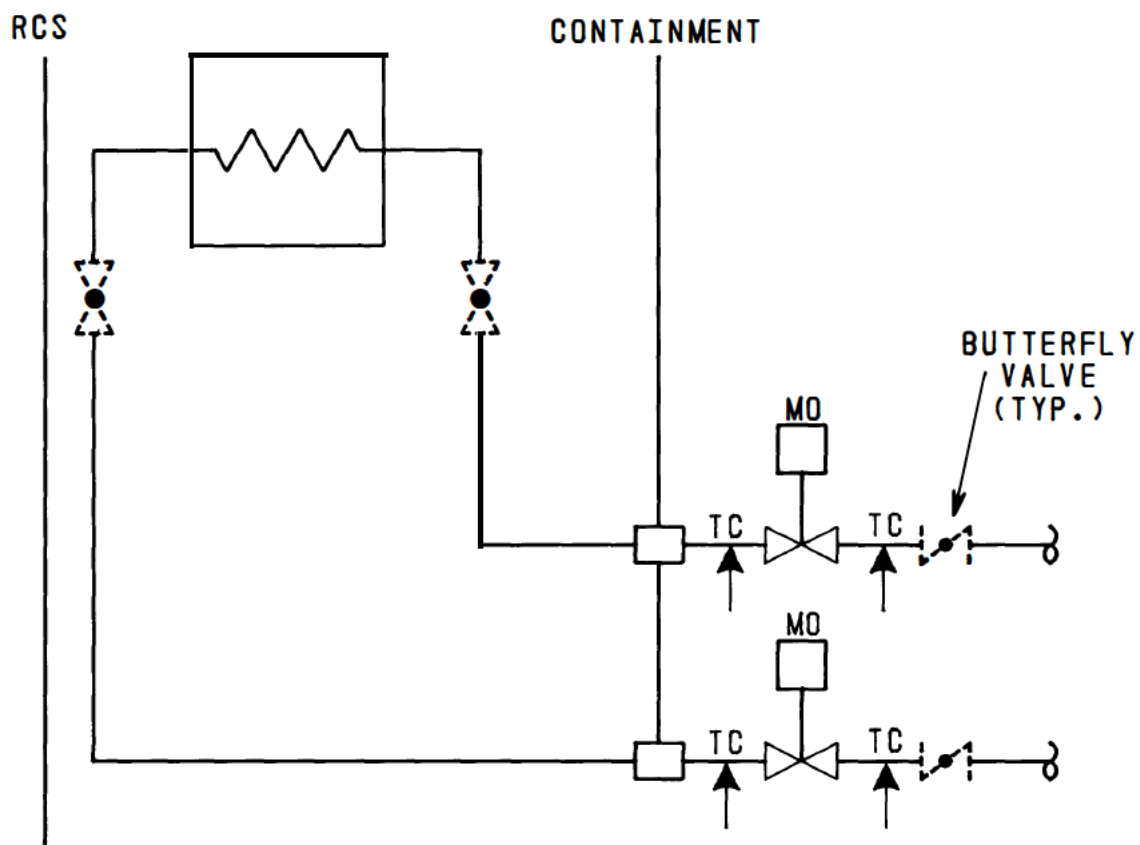


PENETRATION NUMBER: N-51 D

PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
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CONTAINMENT ATMOSPHERIC
CONTROL SYSTEM SAMPLE
RETURN

FIGURE 7.3.11bb



PENETRATION NUMBERS: N-53, N-54
N-55 AND N-56

PHILADELPHIA ELECTRIC COMPANY
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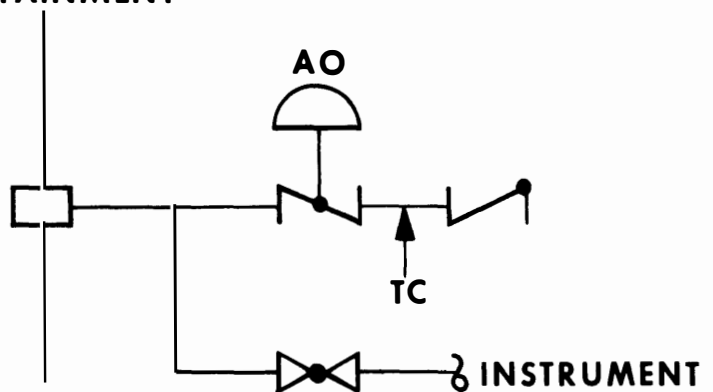
DRYWELL CHILLED WATER

FIGURE 7.3.11cc

REV. 01/8,

RCS

CONTAINMENT

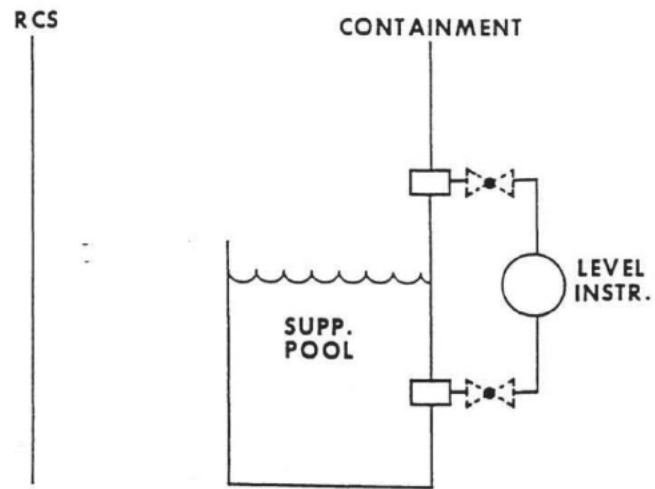


PENETRATION NUMBER: N-205 A

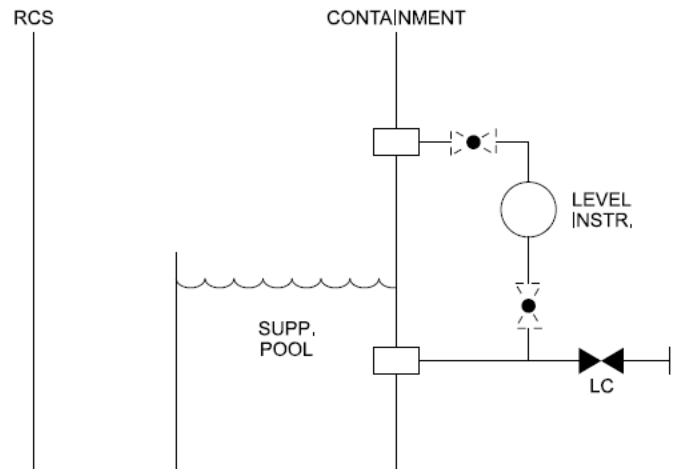
PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
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TORUS VACUUM BREAKER

FIGURE 7.3.11dd



PENETRATION NUMBERS: N-206 A & B, N-213 A (UNIT 3),
AND N-250 (UNIT 3)



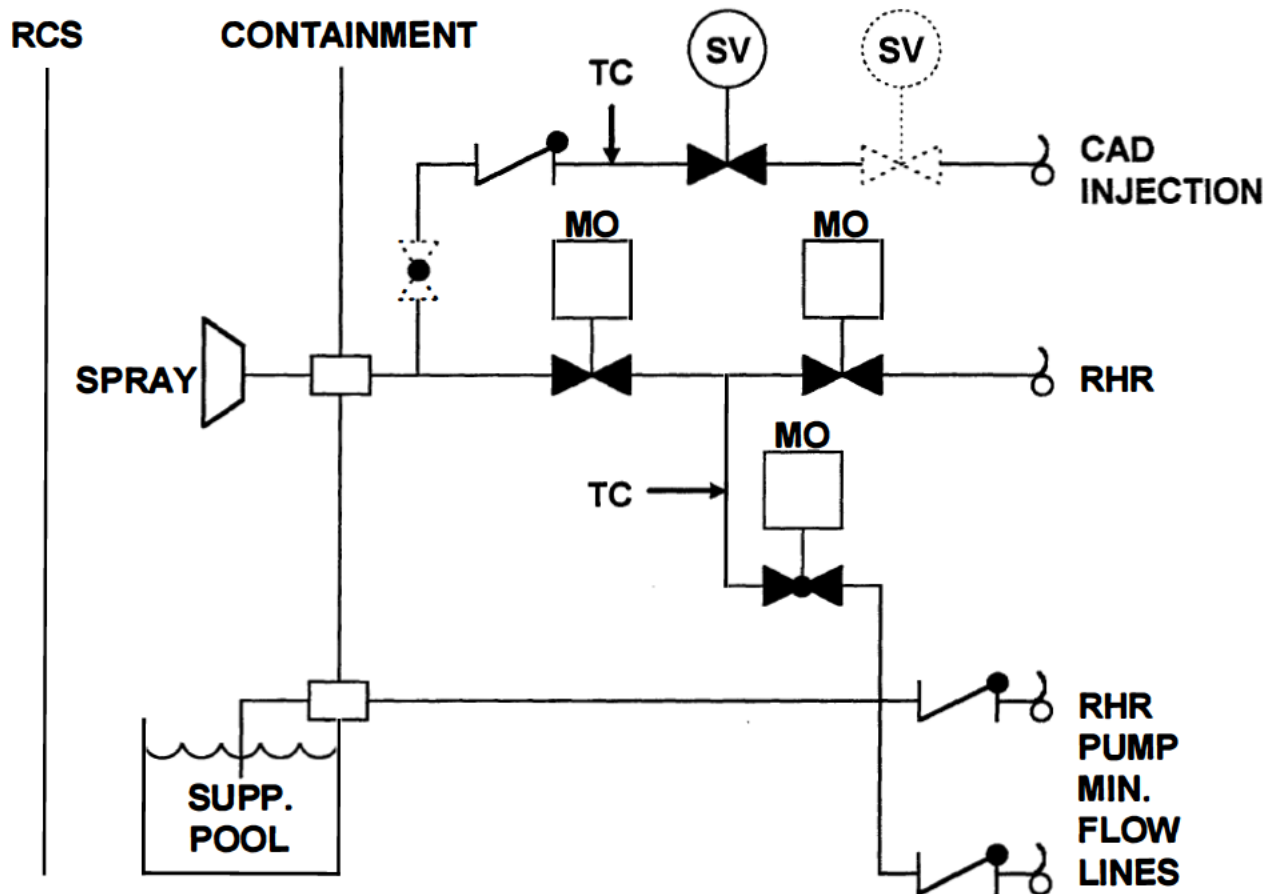
PENETRATION NUMBERS: N-213 A (UNIT 2) AND
N-215 (UNIT 2)

PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

INSTRUMENT LINES - TORUS LEVEL

FIGURE 7.3.11ee

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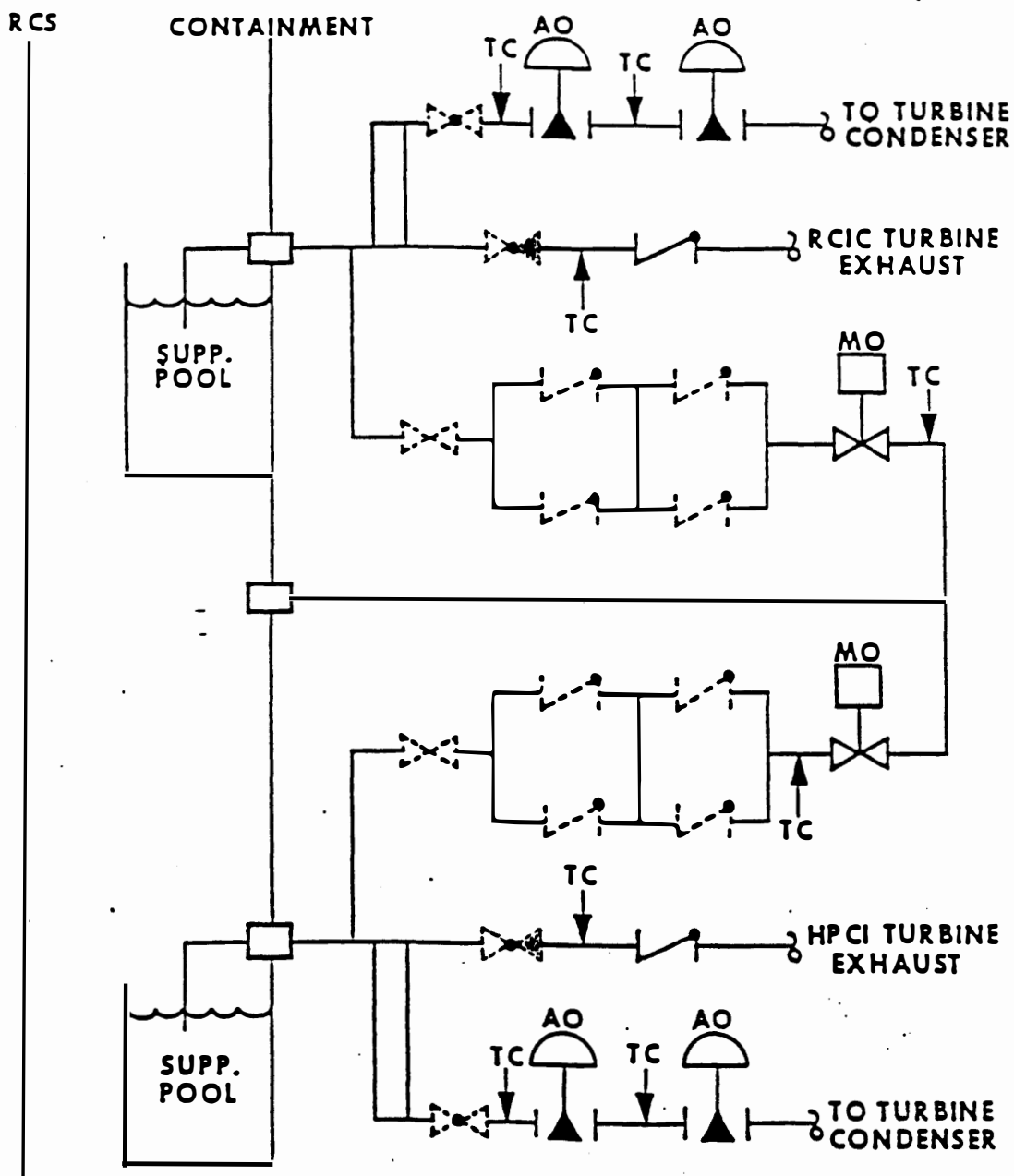
PENETRATION NUMBERS: N-211 A, B AND N-210 A, B

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RHR TORUS SPRAY AND RHR TEST
AND POOL COOLING RETURN

FIGURE 7.3.11ff

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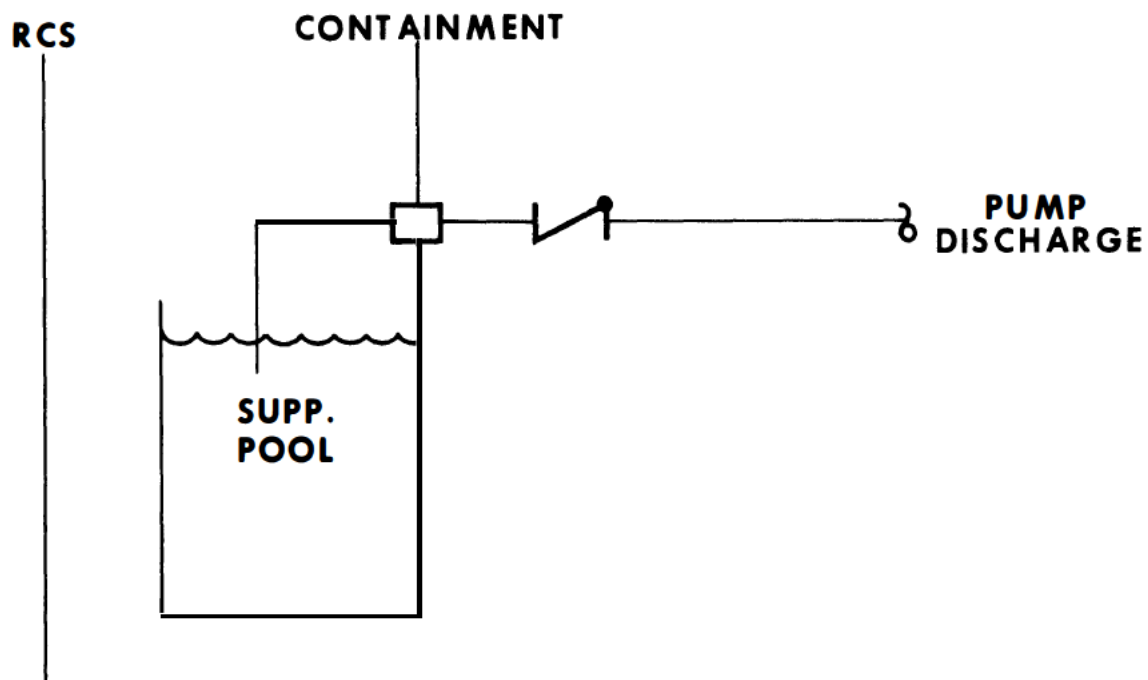


PENETRATION NUMBERS: N-212, N-214 AND N-217 B

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RCIC AND HPCI TURBINE
EXHAUST – RCIC AND
HPCI VACUUM RELIEF

FIGURE 7.3.11gg REV. 14 05/97



PENETRATION NUMBER: N-216

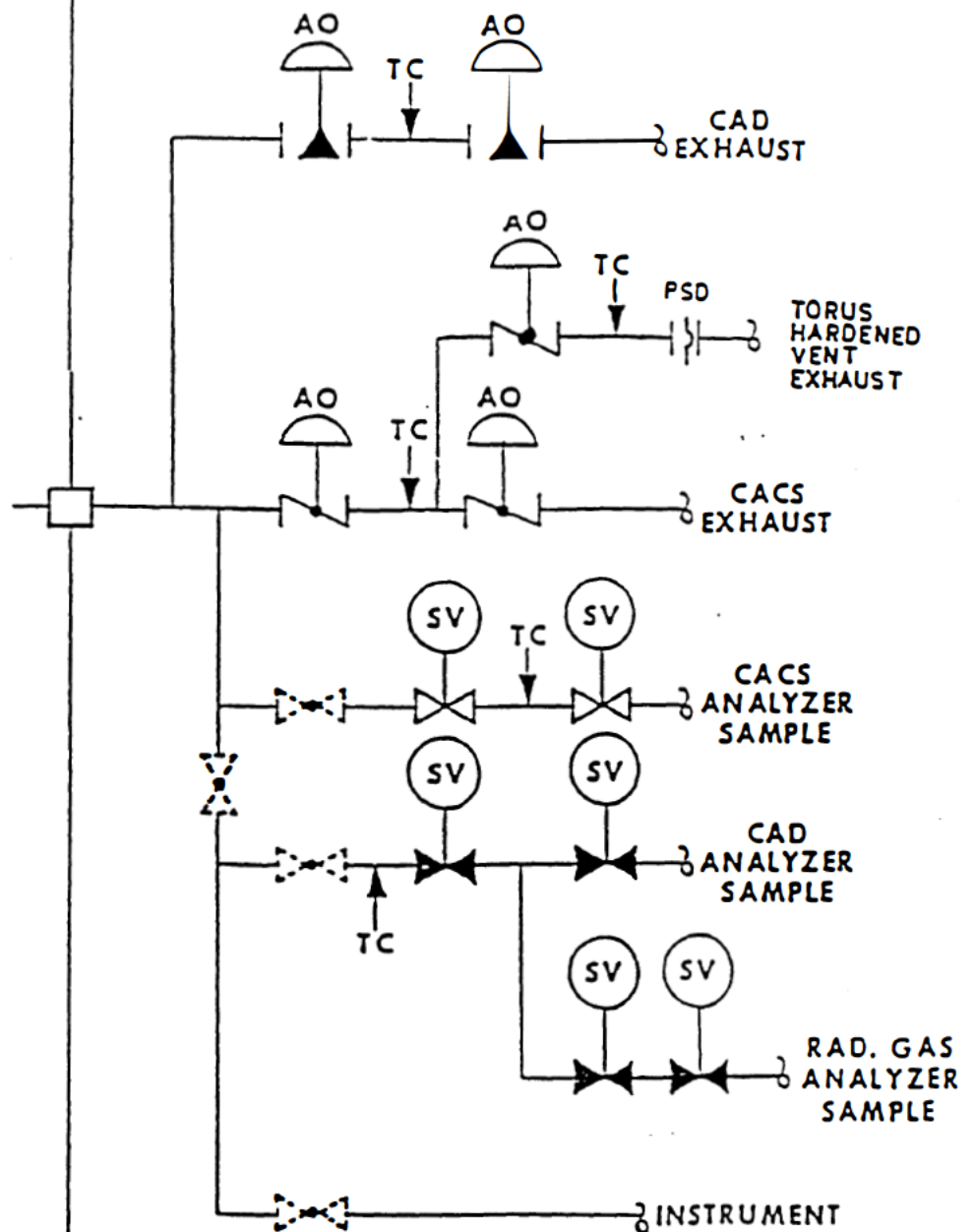
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PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

HPCI MINIMUM FLOW

FIGURE 7.3.11hh

RCS

CONTAINMENT



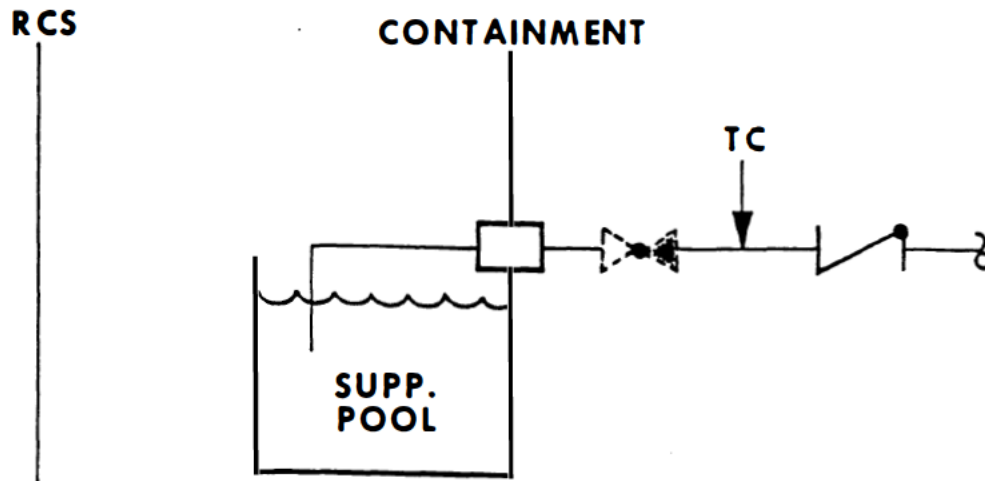
PENETRATION NUMBER: N-219

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

TORUS PURGE EXHAUST

FIGURE 7.3.11II

REV. 14 05/97



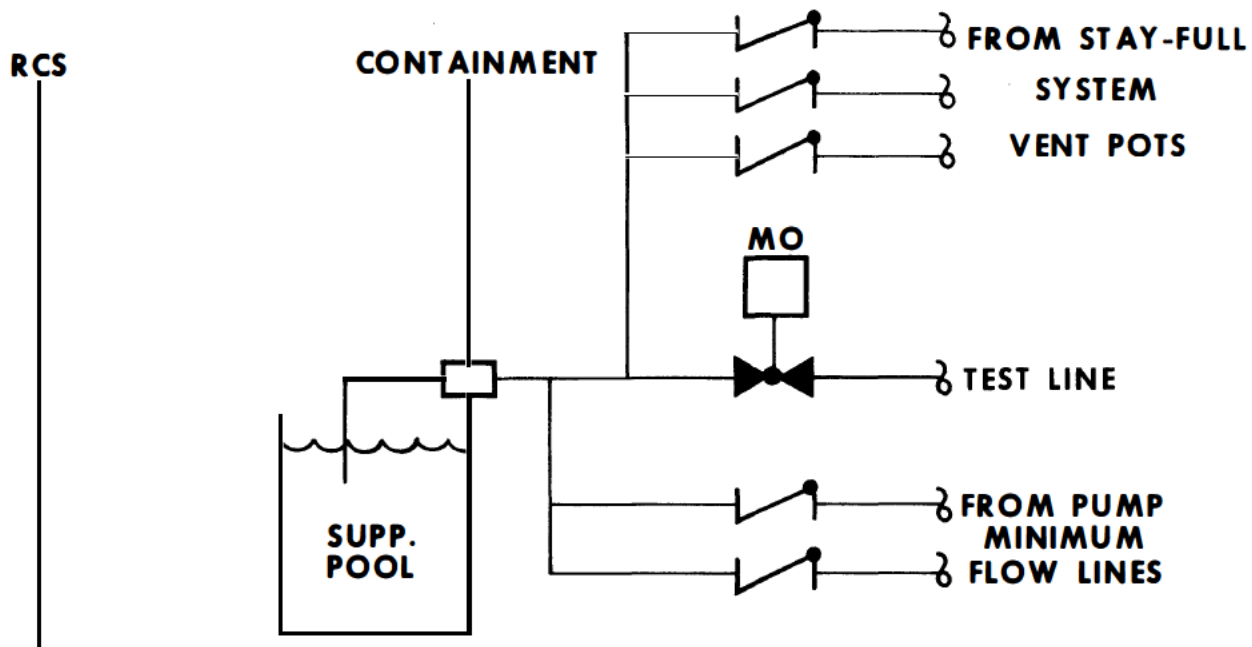
PENETRATION NUMBER: N-221 AND N-223

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

**RCIC VACUUM PUMP DISCHARGE
HPCI TURBINE DRAIN**

FIGURE 7.3.11jj

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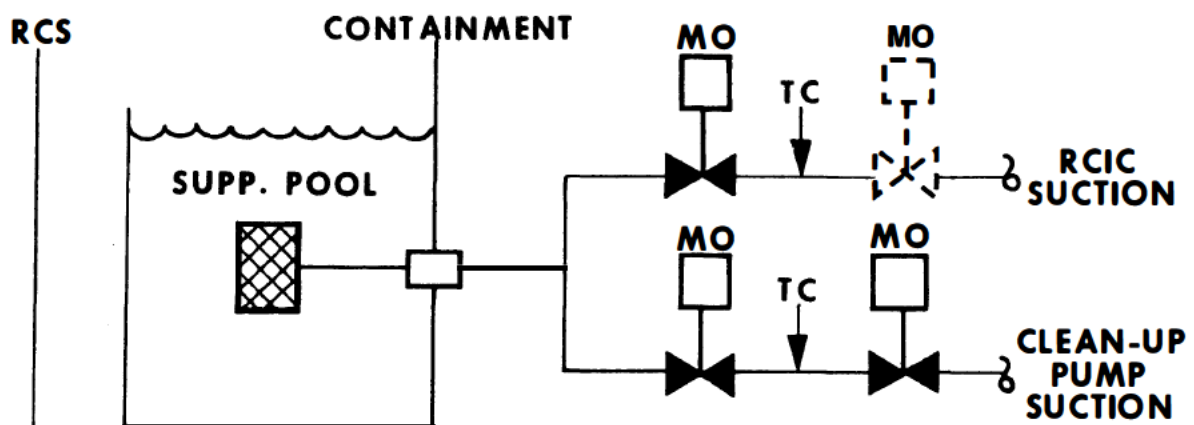


PENETRATION NUMBER: N-224

PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

CORE SPRAY TEST LINE

FIGURE 7.3.11kk



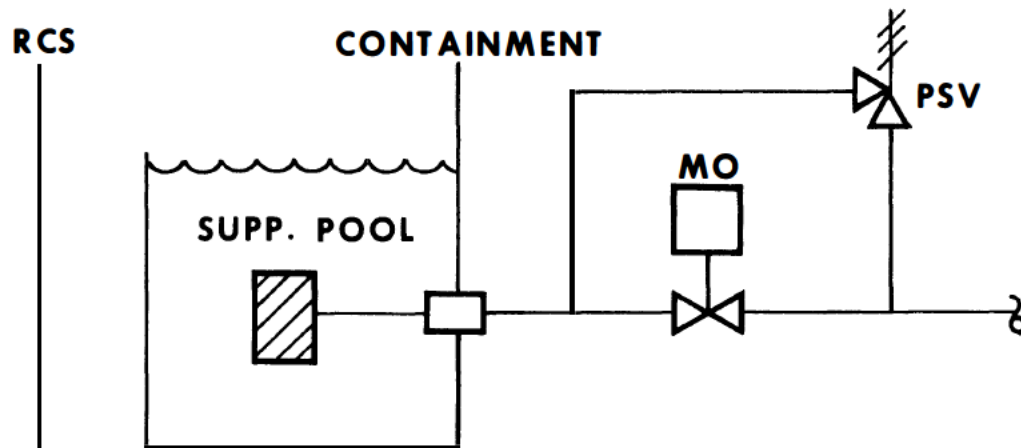
PENETRATION NUMBER: N-225

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

RCIC & TORUS WATER CLEANUP SUCTION

FIGURE 7.3.11II

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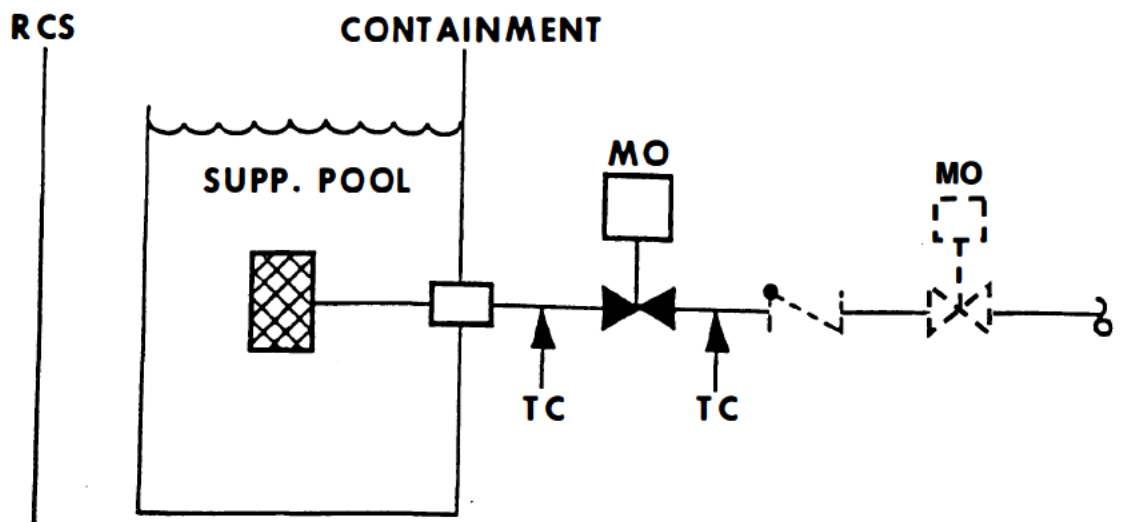


PENETRATION NUMBERS: N-226 A TO D

**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

RHR PUMP SUCTION

FIGURE 7.3.11mm



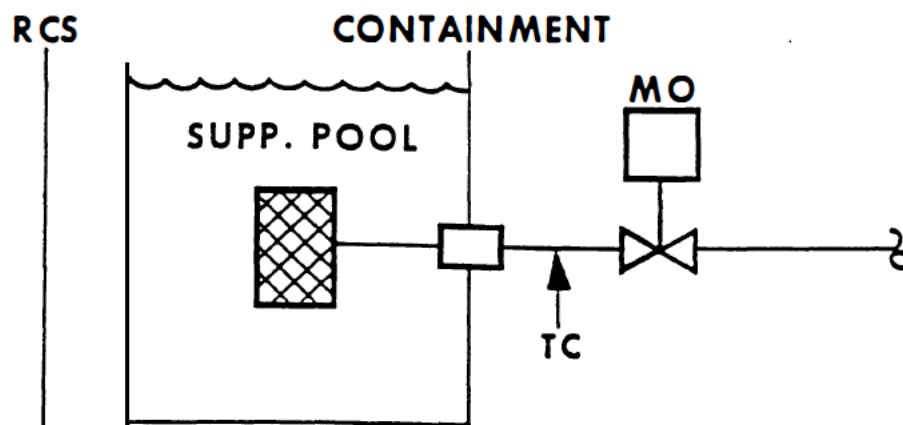
PENETRATION NUMBER: N-227

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HPCI SUCTION

FIGURE 7.3.11nn

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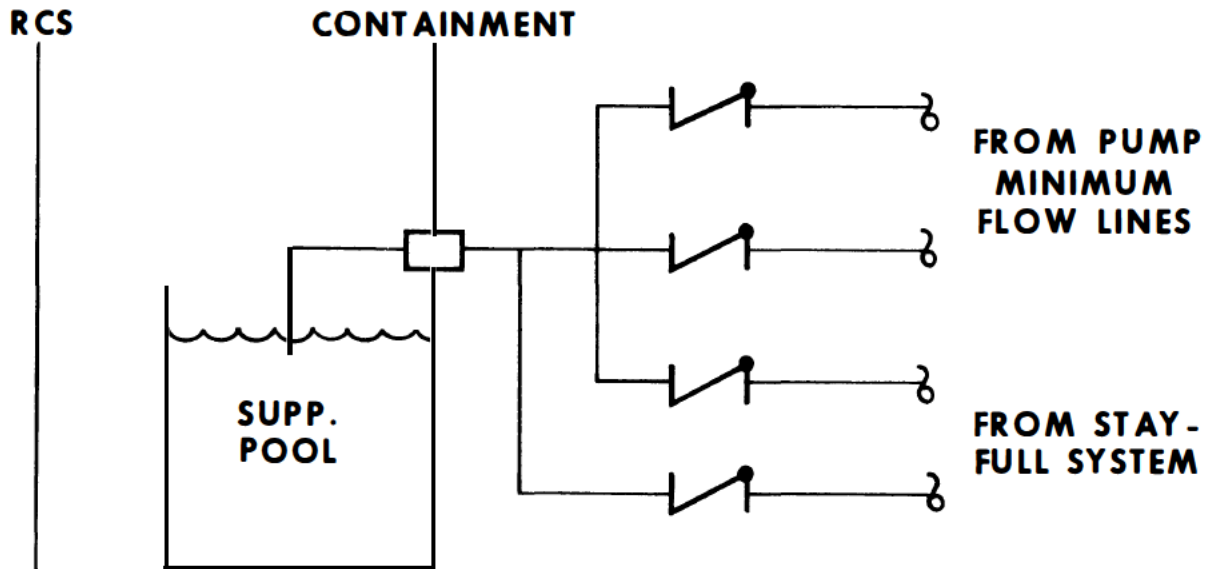


PENETRATION NUMBERS: N-228 A TO D

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

CORE SPRAY PUMP SUCTION

FIGURE 7.3.1100 REV. 14 05/97

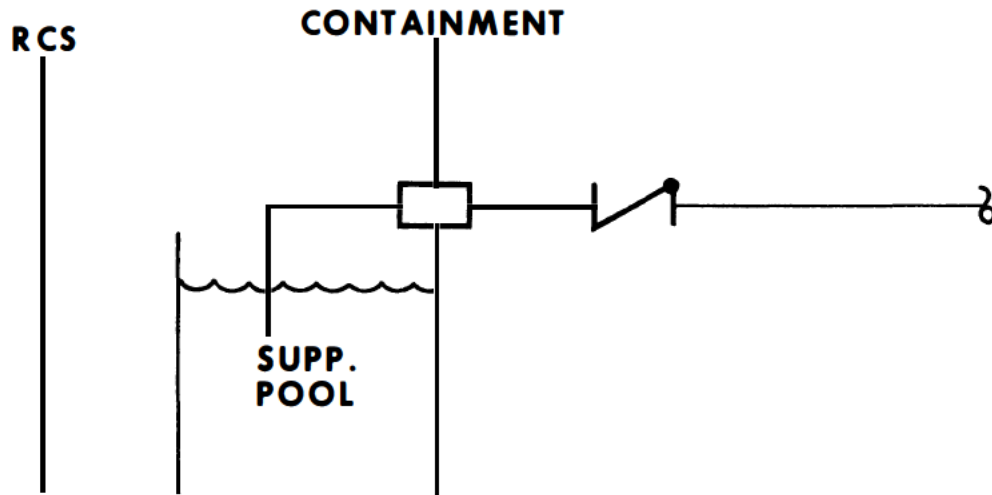


PENETRATION NUMBERS: N-229 AND N-236 B

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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

CORE SPRAY PUMP MINIMUM FLOW

FIGURE 7.3.11pp

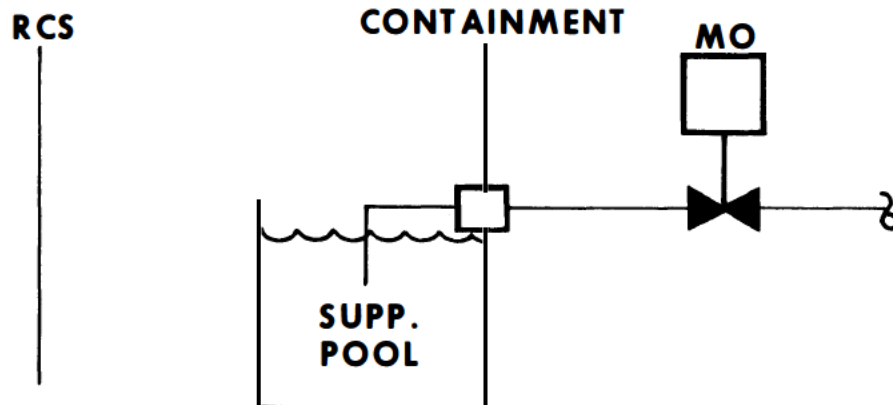


PENETRATION NUMBER: N-230

**PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

RCIC PUMP MINIMUM FLOW

FIGURE 7.3.11qq

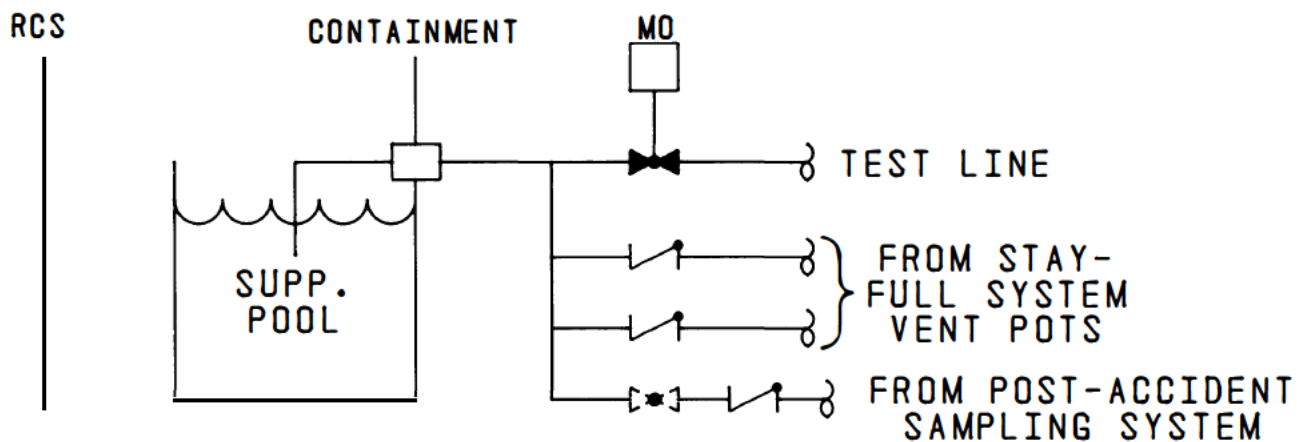


PENETRATION NUMBERS: N-233 AND N-235

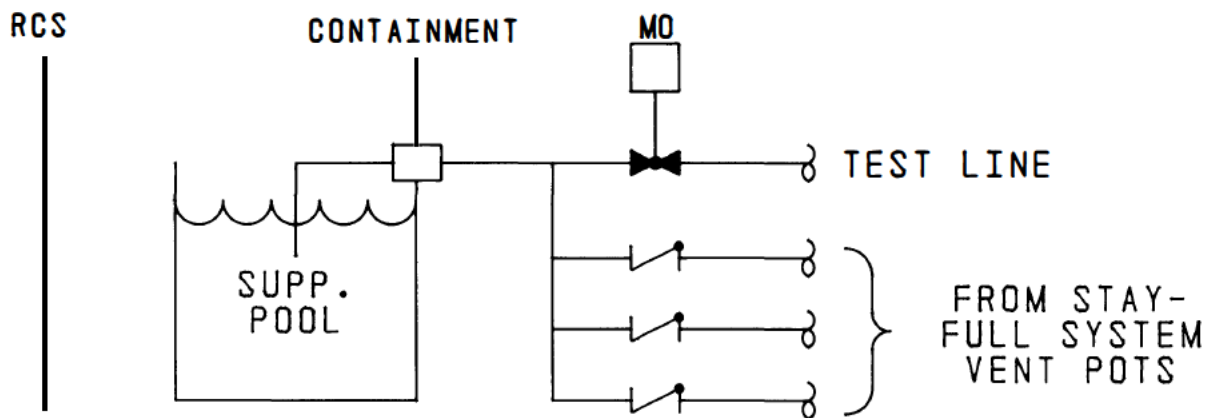
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UNITS 2 AND 3
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HPCI TEST LINE

FIGURE 7.3.11rr



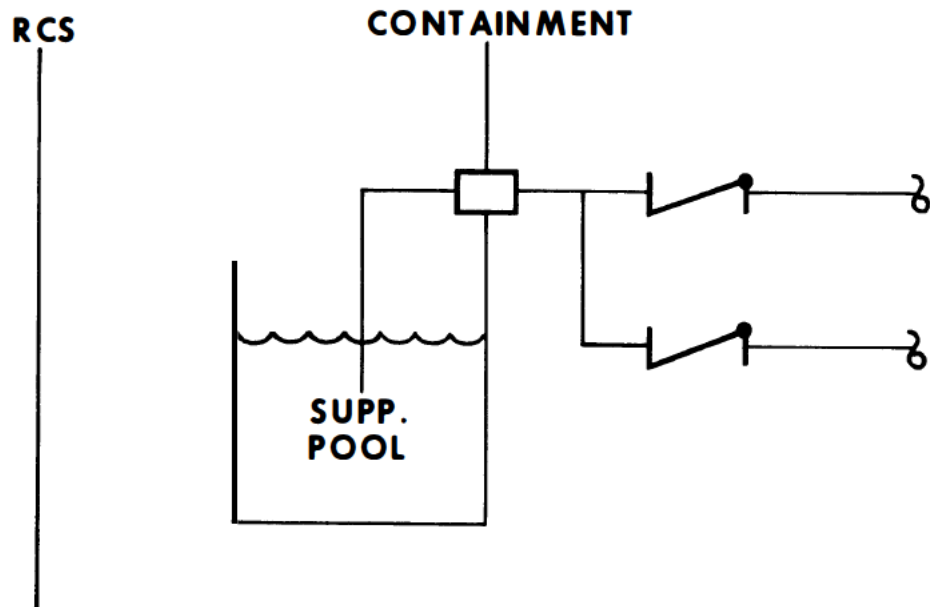
PENETRATION NUMBERS: N-234 B AND N-234



PENETRATION NUMBER: N-234A

PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
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CORE SPRAY TEST LINE

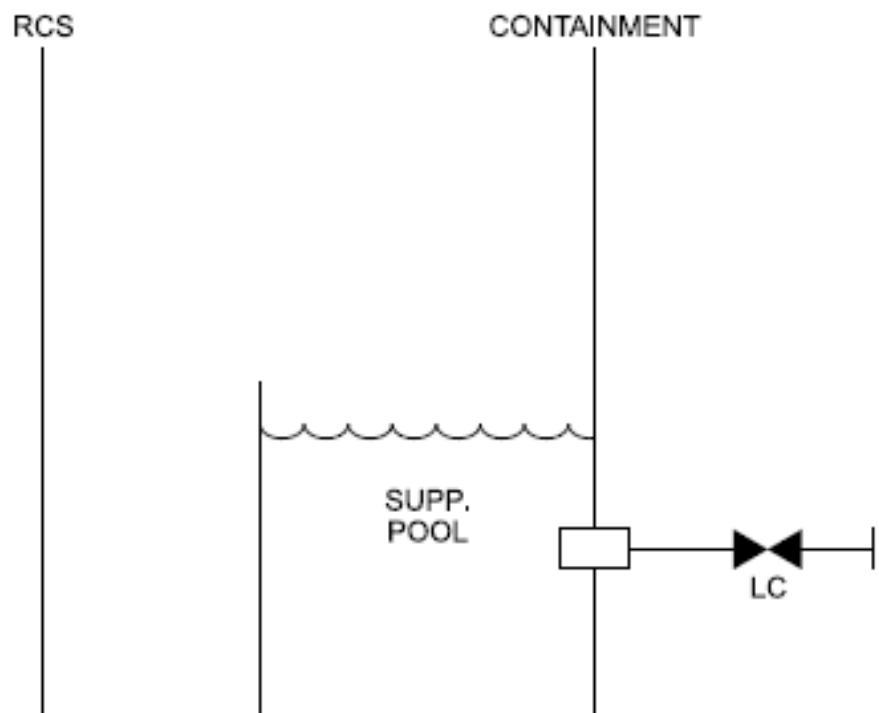


PENETRATION NUMBER: N-236 A

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UPDATED FINAL SAFETY ANALYSIS REPORT**

PUMP MINIMUM FLOW

FIGURE 7.3.11tt



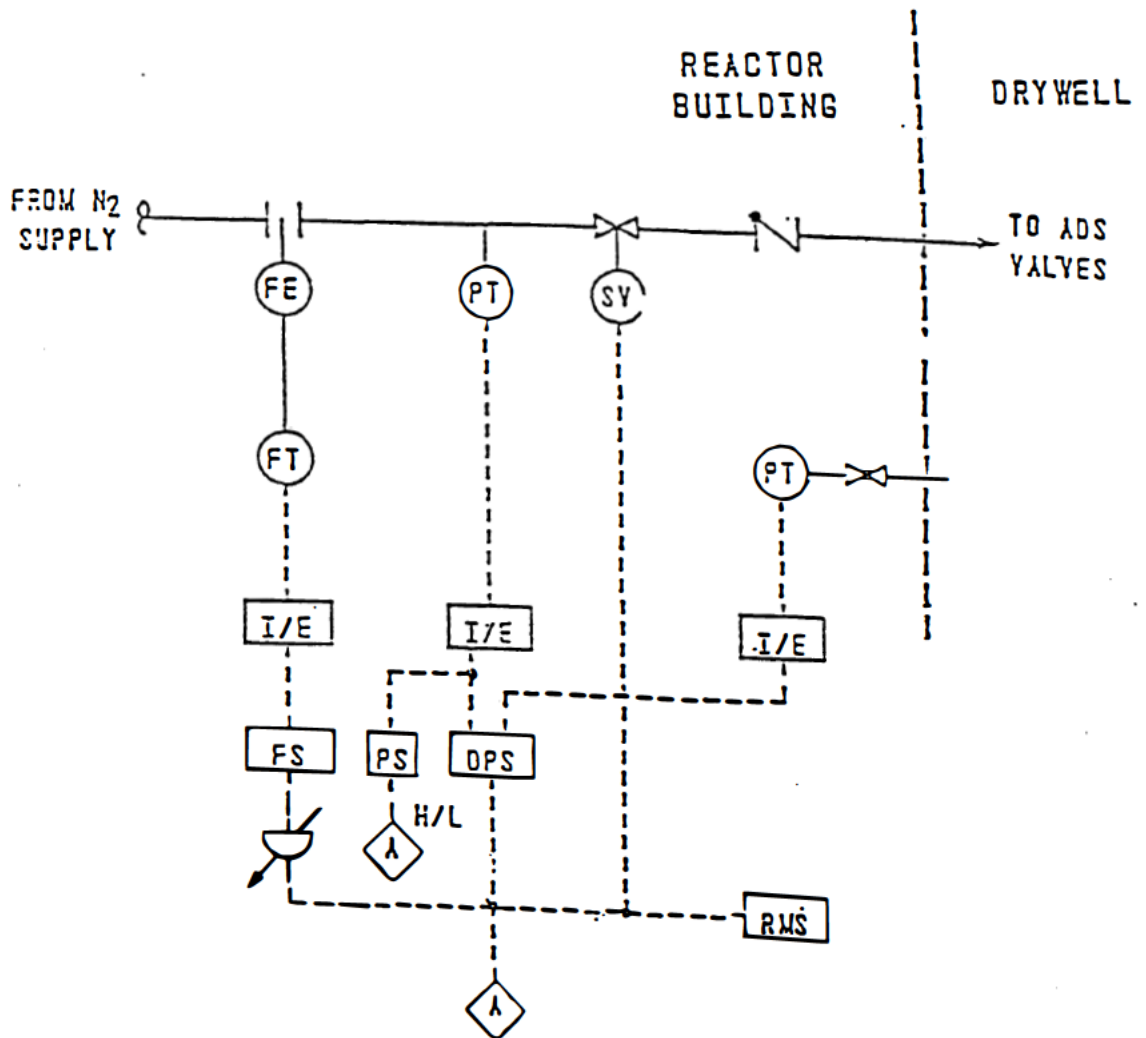
PENETRATION NUMBERS: N-213 B (UNIT 2)

PEACH BOTTOM ATOMIC POWER STATION
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TORUS DRAIN LINE

FIGURE 7.3.11uu

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UNITS 2 AND 3
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ADS SAFETY GRADE
PNEUMATIC SUPPLY LEAK DETECTION

FIGURE 7.3.12

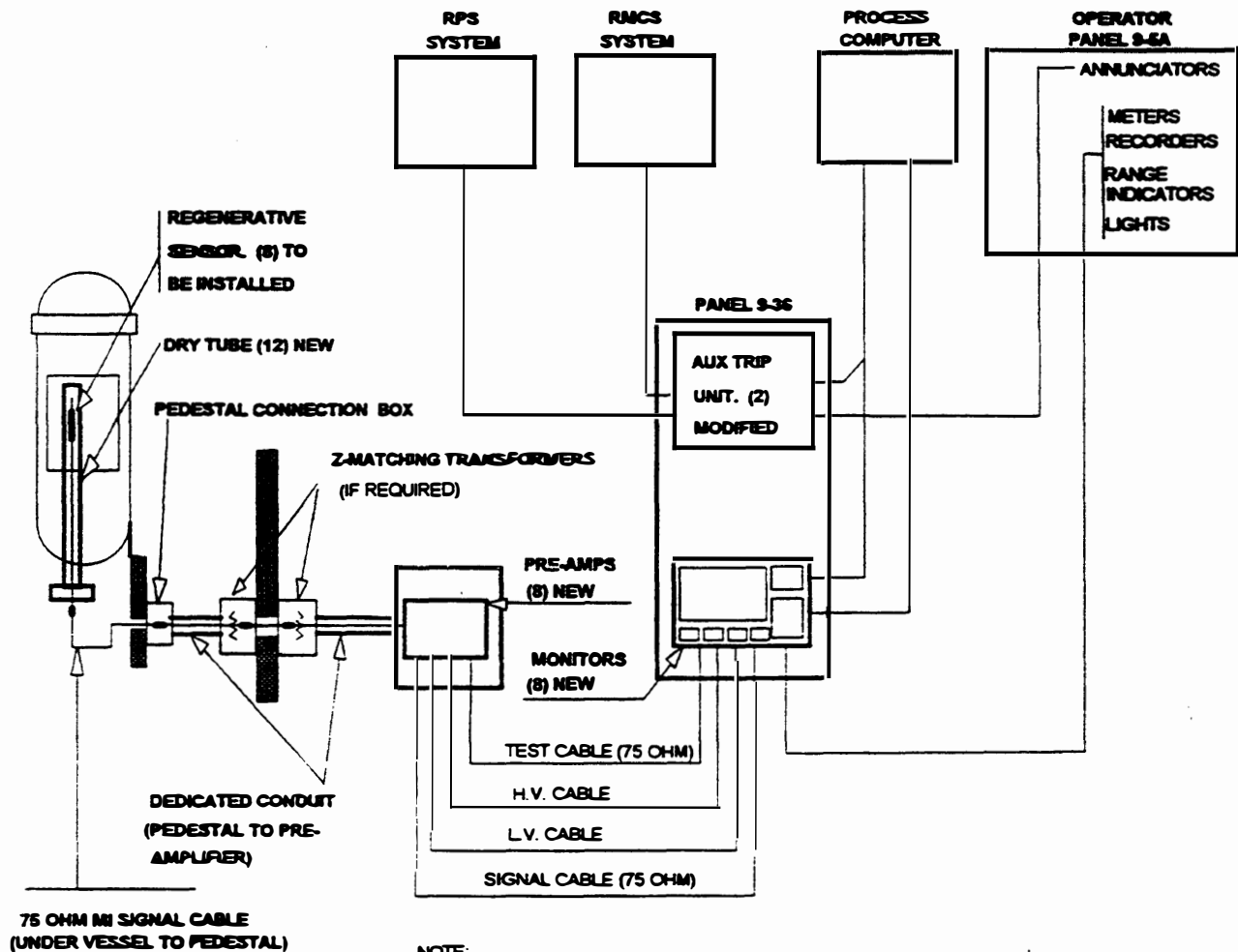
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Figure 7.4.1A thru 7.4.8

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Figure 7.5.1

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NOTE:

- 1) TEST/H.V./L.V./SIGNAL CABLES BETWEEN CONTROL ROOM AND PREAMPLIFIER MAY BE REUSED FROM SRM/RM SYSTEMS.
- 2) SIGNAL CABLE (75 OHM) TO BE INSTALLED NEW FROM UNDER VESSEL TO PREAMPLIFIER.

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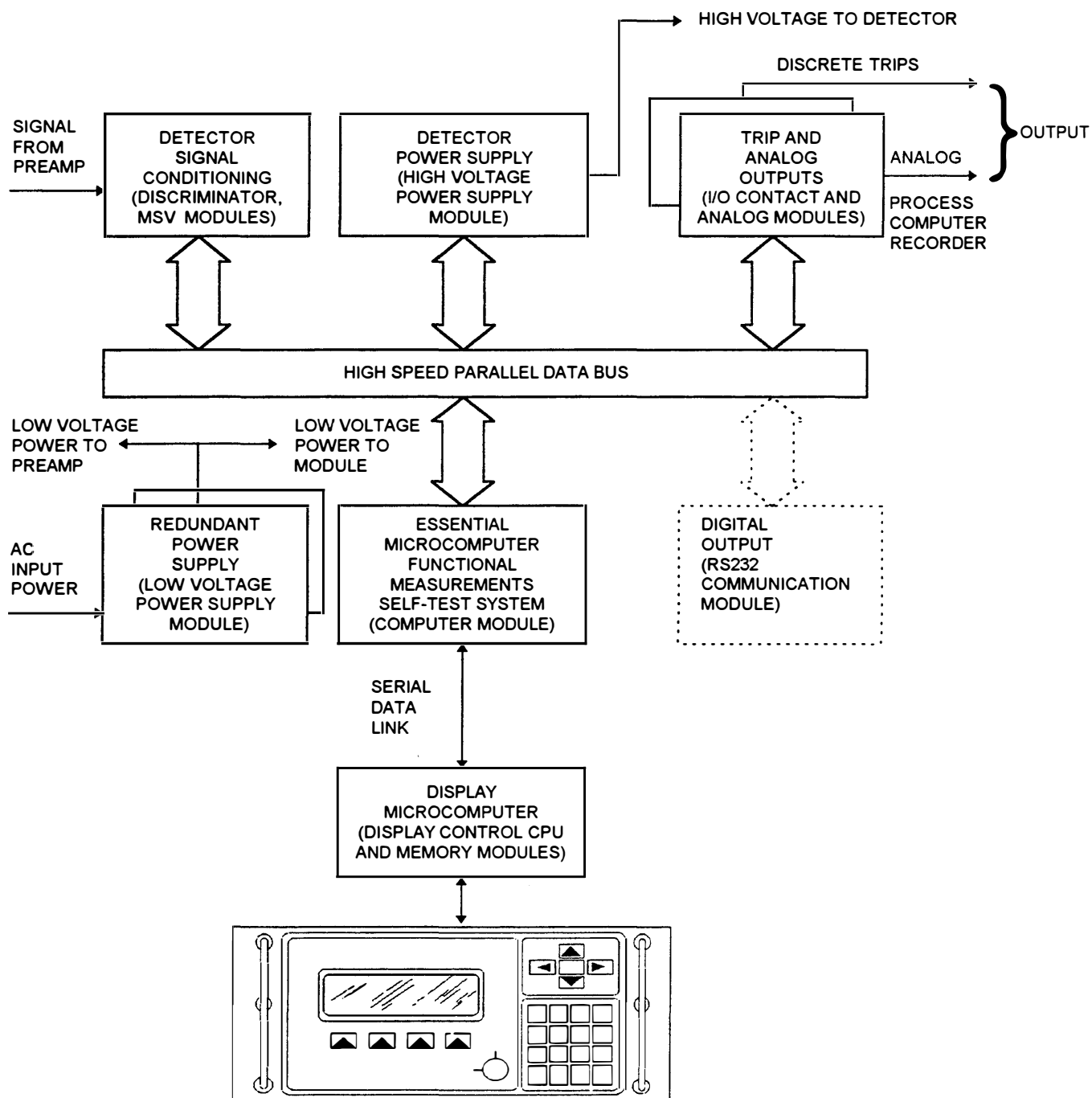
WRNM CONFIGURATION
(ONE CHANNEL)

FIGURE 7.5.2

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Figure 7.5.3

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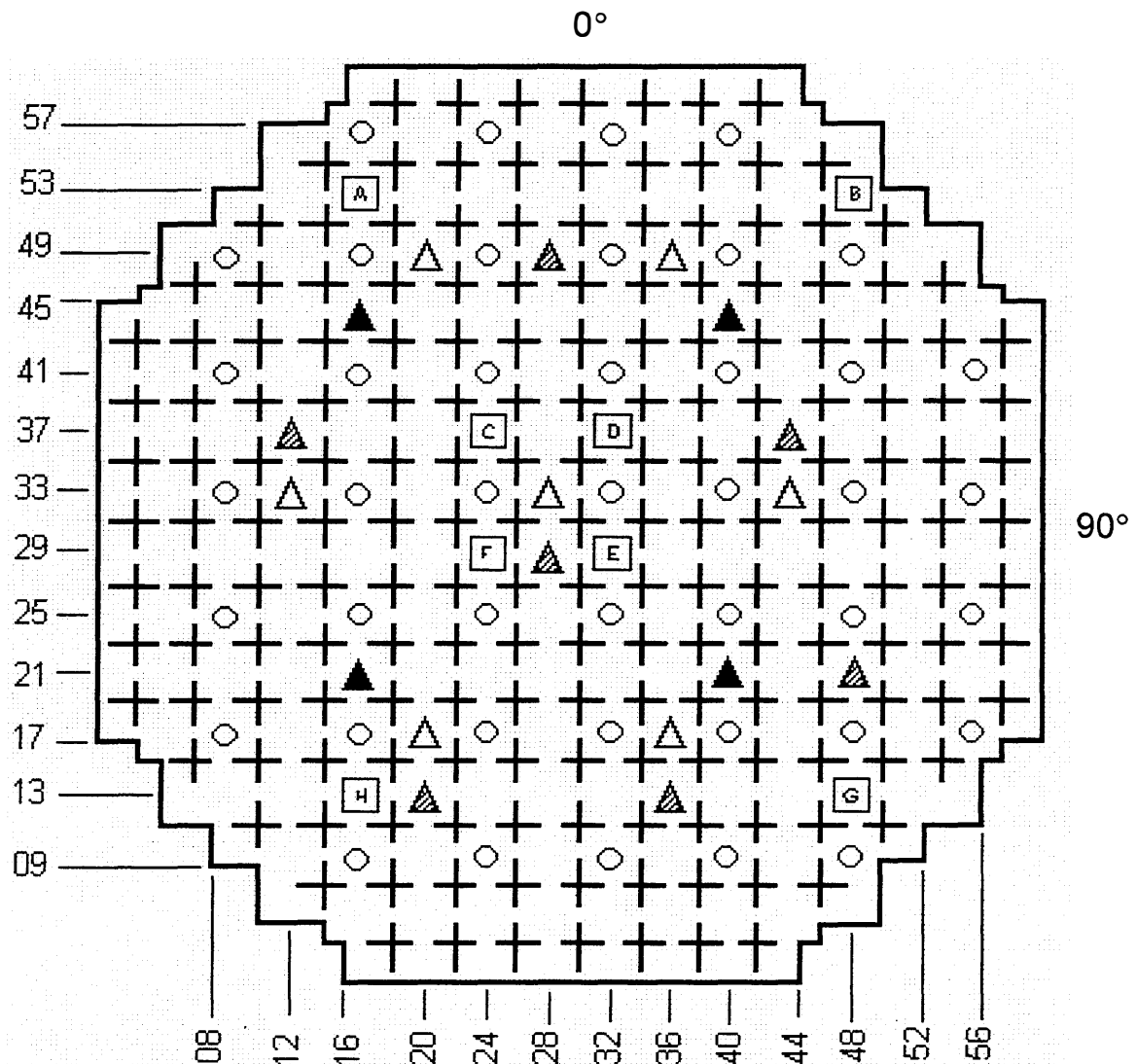
FUNCTIONAL BLOCK DIAGRAM OF WRNM
CHANNEL

FIGURE 7.5.4

Rev. 16 04/99

Figure 7.5.5

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DETECTOR & CONTROL ELEMENT ARRANGEMENT
(TOP VIEW OF CORE)

- ✚ CONTROL RODS (109)
- ▲ SPARE DRY TUBE LOCATION FOR WRNM (4)
- LPRM DETECTOR ASM IN THE PWR. RANGE (43)
- △ SPARE EMITTING SOURCE POSITION (7)
- ▴ EMITTING SOURCE POSITIONS (7)
FOR INITIAL START-UP
- WRNM DETECTOR LOCATIONS (8)

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CORE LOCATION OF NEUTRON
MONITORING SYSTEM DETECTORS

Figure 7.5.7 thru 7.5.8

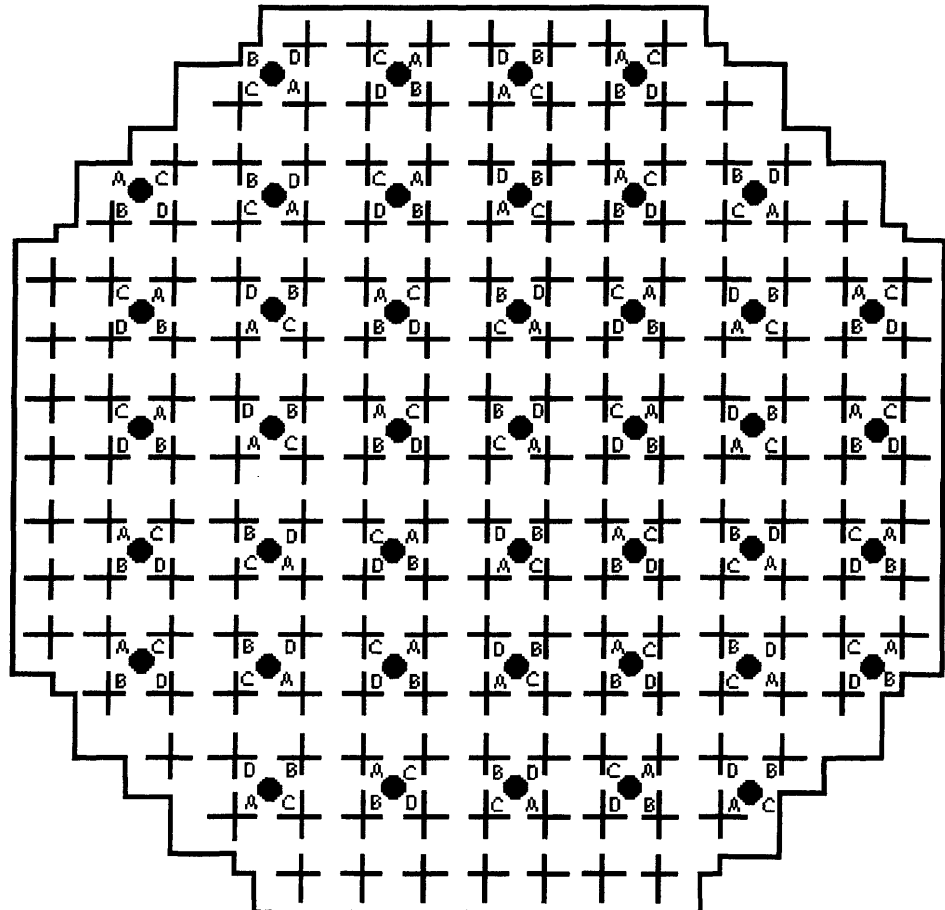
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LEGEND

- D TOP LPRM DETECTOR POSITION
- C UPPER MIDDLE LPRM DETECTOR POSITION
- B - LOWER MIDDLE LPRM DETECTOR POSITION
- A BOTTOM LPRM DETECTOR POSITION

CORE TOP VIEW

0°



90°

● LPRM String

- UPPER LEFT LETTER IS LPRM CHAMBER ASSIGNED TO APRM 1
- LOWER LEFT LETTER IS LPRM CHAMBER ASSIGNED TO APRM 2
- LOWER RIGHT LETTER IS LPRM CHAMBER ASSIGNED TO APRM 3
- UPPER RIGHT LETTER IS LPRM CHAMBER ASSIGNED TO APRM 4

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UNITS 2 AND 3
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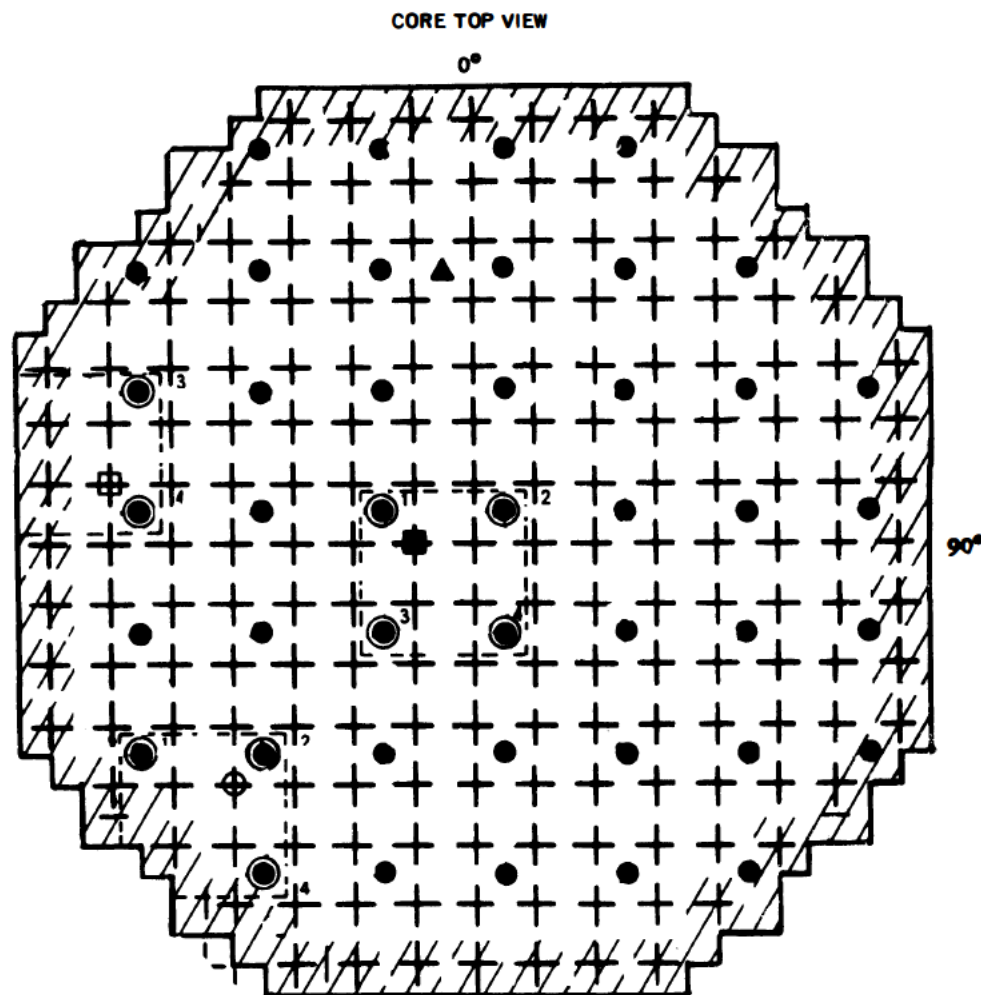
LPRM TO APRM ASSIGNMENT SCHEME

FIGURE 7.5.10

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Figure 7.5.10a thru 7.5.12

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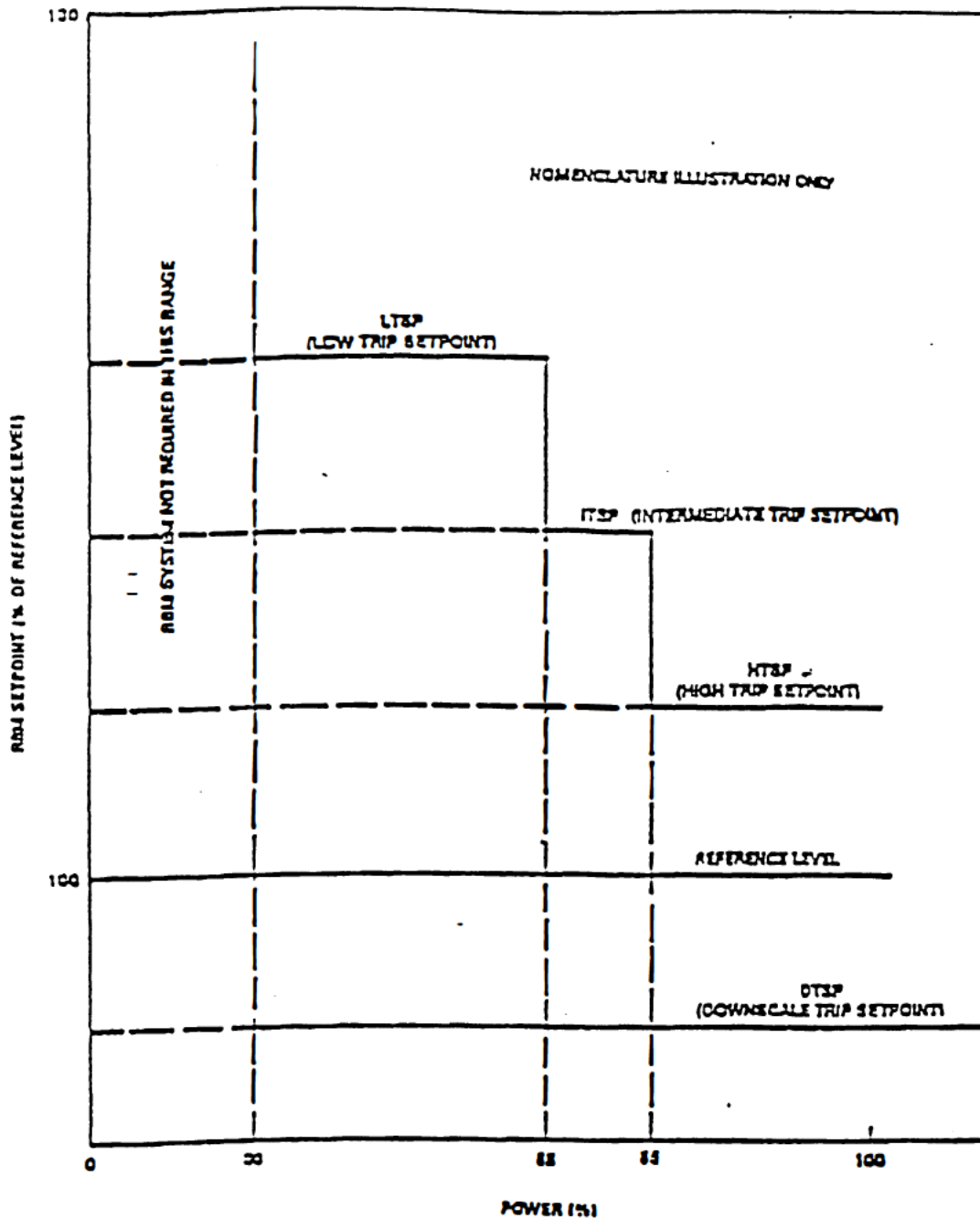
- LPRM-ASSEMBLY ASSIGNED TO RBM
- ⊕ ROD SELECTION RESULTING IN TWO-ASSEMBLY ASSIGNMENT
- ⊗ ROD SELECTION RESULTING IN THREE-ASSEMBLY ASSIGNMENT
- ⊞ ROD SELECTION RESULTING IN FOUR-ASSEMBLY ASSIGNMENT
- /// RBM AUTOMATICALLY BYPASSED (READING ZEROED)

NOTE: ASSIGNMENT IS AUTOMATICALLY
INITIATED UPON ROD SELECTION

**PHILADELPHIA ELECTRIC COMPANY
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UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT**

TYPICAL ASSIGNMENT OF LPRM
ASSEMBLIES TO RBM'S

FIGURE 7.5.13

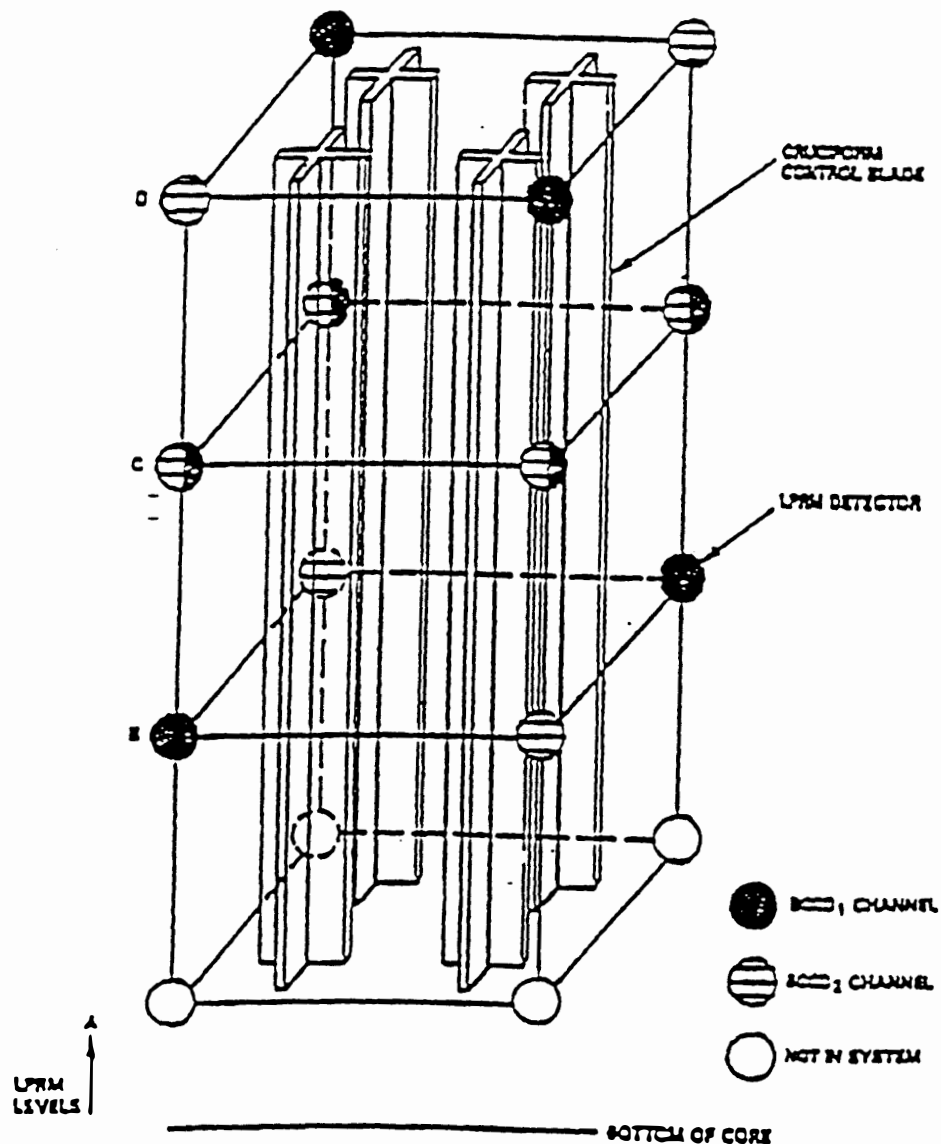


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RBM TRIP SETPOINT
 VARIATION WITH
 REFERENCE APRM POWER

FIGURE 7.5.14

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LPRM TO RBM
 ASSIGNMENT

FIGURE 7.5.15

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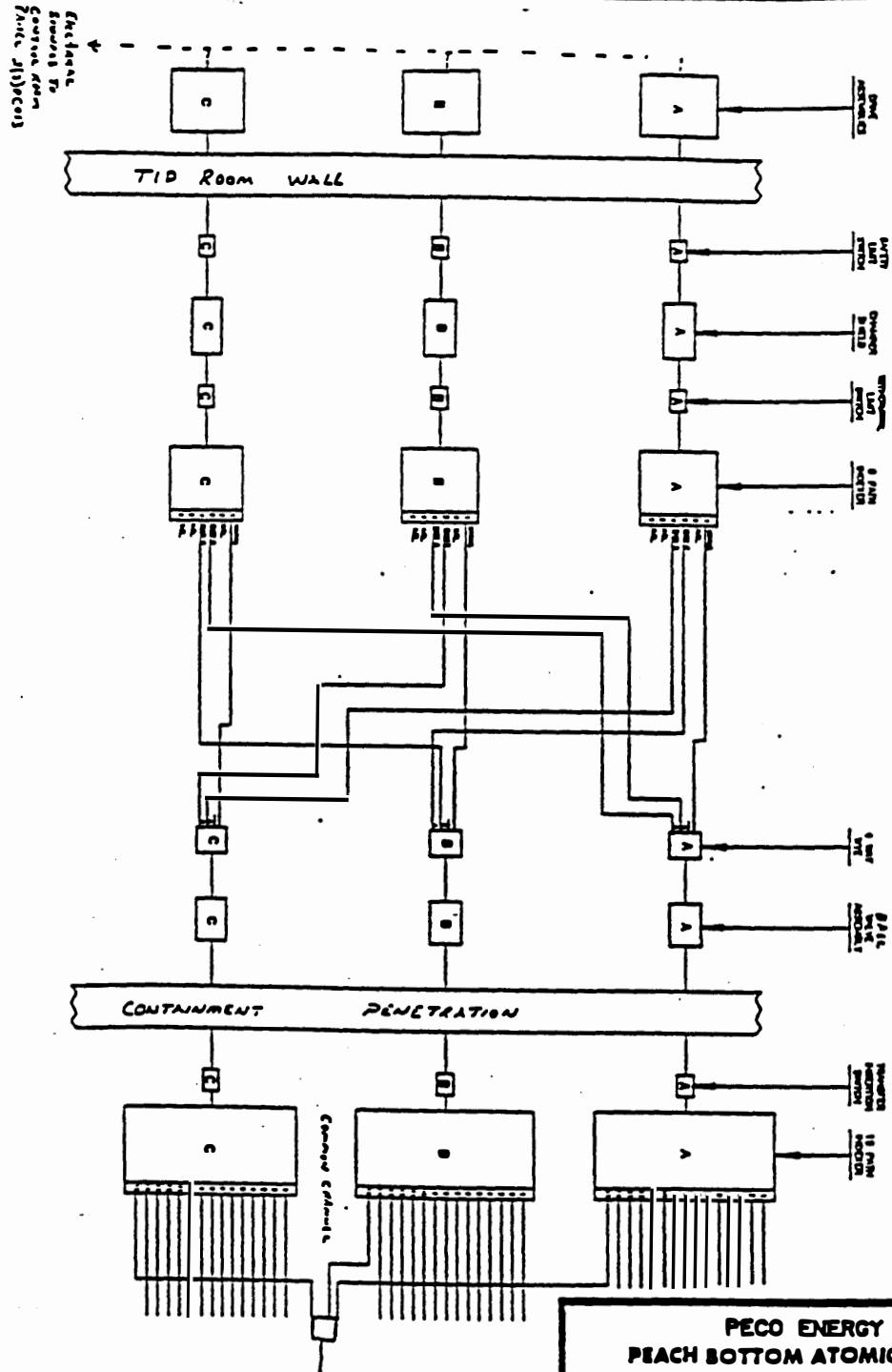
The map shows the following details:

- Grid:** Latitude 0° to 61°N, Longitude 100° to 160°E.
- USS Johnston's Path:** Indicated by a solid line with dots. It starts at approximately 05°N, 100°E and moves in a generally northeasterly direction, ending at its final position near 55°N, 155°E.
- Japanese Submarine Activity:**
 - Type A (A):** Marked with 'A'. One is located at approximately 55°N, 155°E, where Johnston was sunk. Others are scattered in the central and eastern parts of the map.
 - Type B (B):** Marked with 'B'. Several are located in the western part of the map, between 100°E and 120°E.
- Geographical Features:** The map includes the outlines of the Philippines, Taiwan, and the Japanese archipelago in the upper right corner.

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PEACH BOTTOM ATOMIC POWER STATION
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ASSIGNMENT OF LPRM STRINGS TO TIP MACHINES

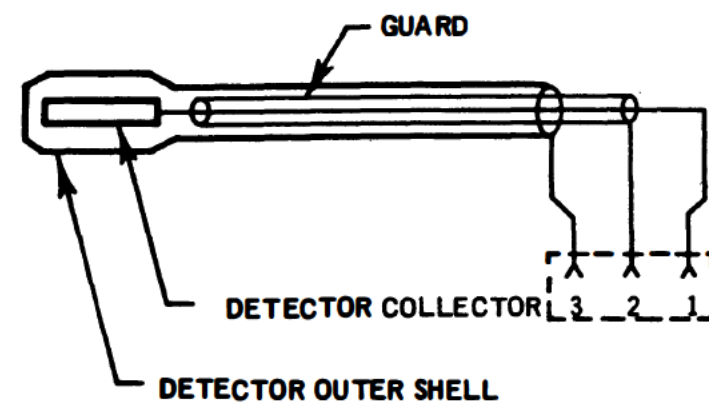
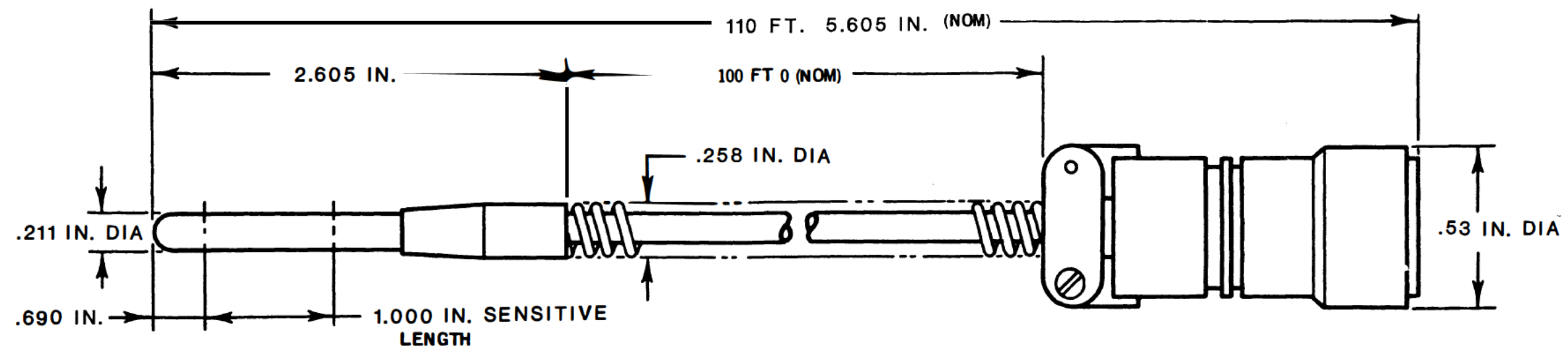
FIGURE 7.5.16 REV. 14 05/97



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PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
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TRAVERSING IN-CORE PROBE
SUBSYSTEM BLOCK DIAGRAM

FIGURE 7.5.17 REV. 14 05/97



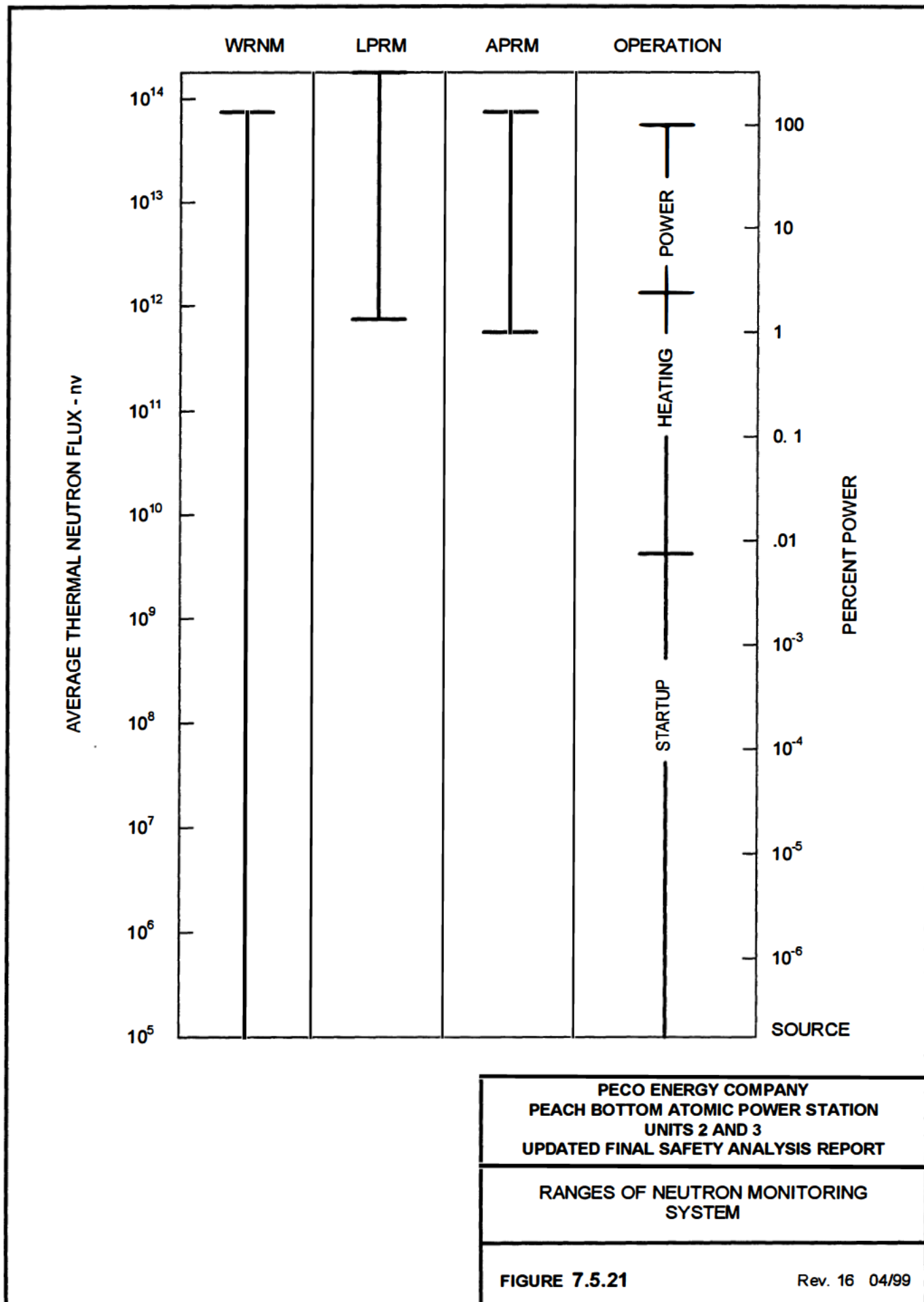
PHILADELPHIA ELECTRIC COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS REPORT

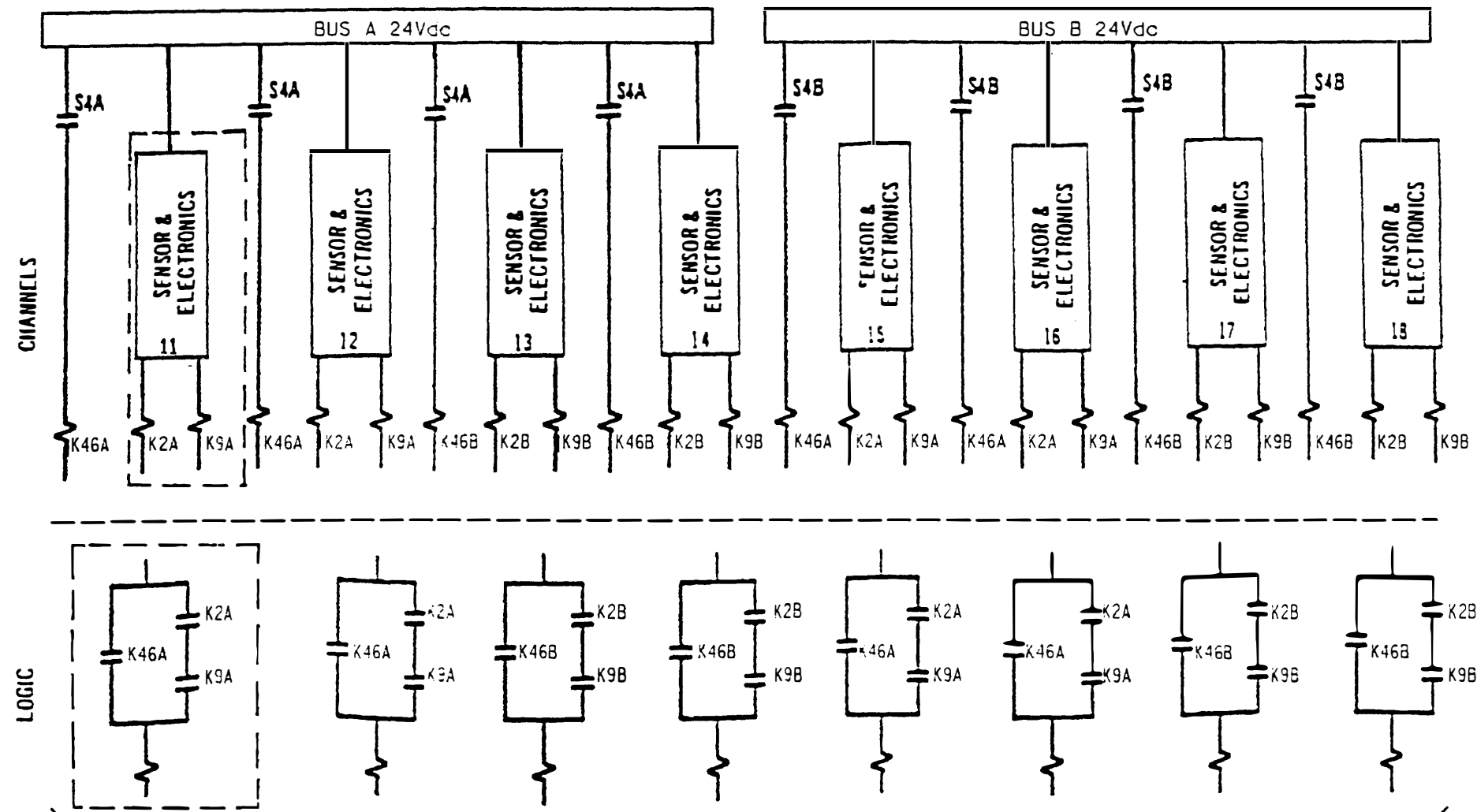
TRAVERSING IN-CORE PROBE
ASSEMBLY

FIGURE 7.5.18 REV. 10 01/92

Figure 7.5.20

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LEGEND: K2A, B - INOPERATIVE TRIP
K9A, B - PERIOD TRIP
S4A, B - BYPASS SWITCH

TO REACTOR PROTECTION SYSTEM

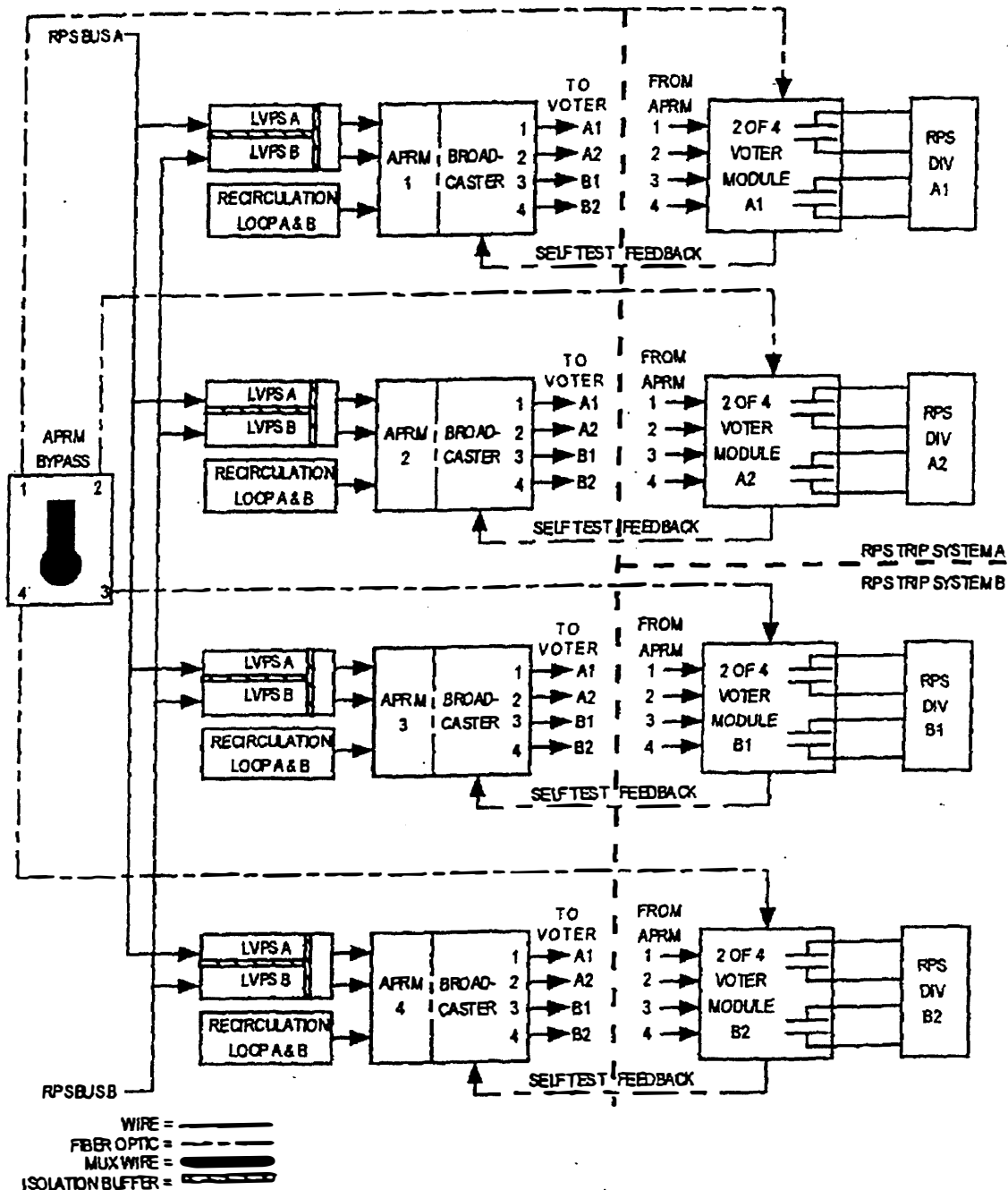
NOTE: CONTACTS ALSO SHOWN IN NORMAL OPERATION POSITION

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
UNITS 2 AND 3
UPDATED FINAL SAFETY ANALYSIS

TYPICAL WRNM CIRCUIT ARRANGEMENT
FOR REACTOR PROTECTION SYSTEM
INPUT

FIGURE 7.5.22

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PEACH BOTTOM ATOMIC POWER STATION
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UPDATED FINAL SAFETY ANALYSIS REPORT

TYPICAL CIRCUIT ARRANGEMENT
FOR REACTOR PROTECTION SYSTEM
INPUT

FIGURE 7.5.23

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Figure 7.5.24

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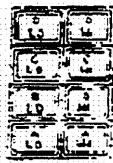
Figure 7.6.1

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Figure 7.7.1A thru 7.7.2

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(WHITE) (AMBER)



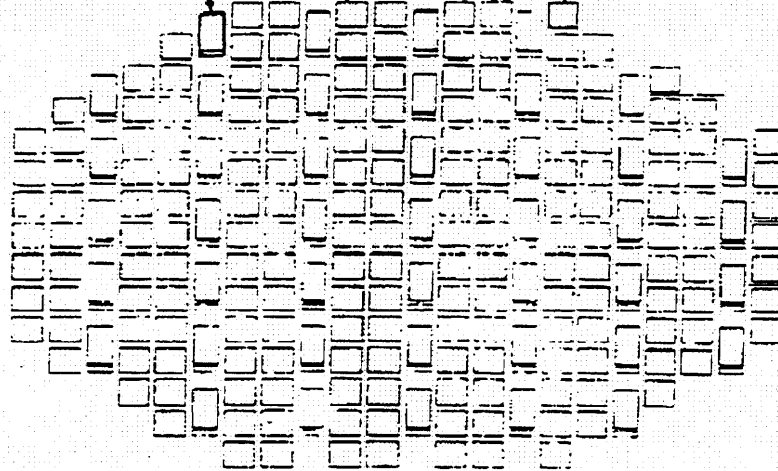
DETAIL "A"



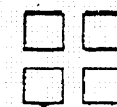
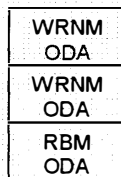
DETAIL "B"

SEE DETAIL "A"

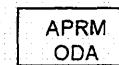
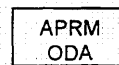
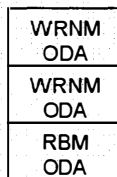
SEE DETAIL "B"



VERTICAL
BOARD

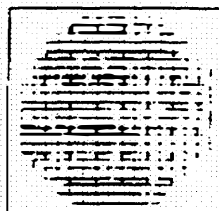


SEE
DETAIL "C"



CONTROL
BOARD

ODAs & 4 - ROD DISPLAY



SELECT PUSHBUTTON MODULE



DETAIL "C"

(WHITE)

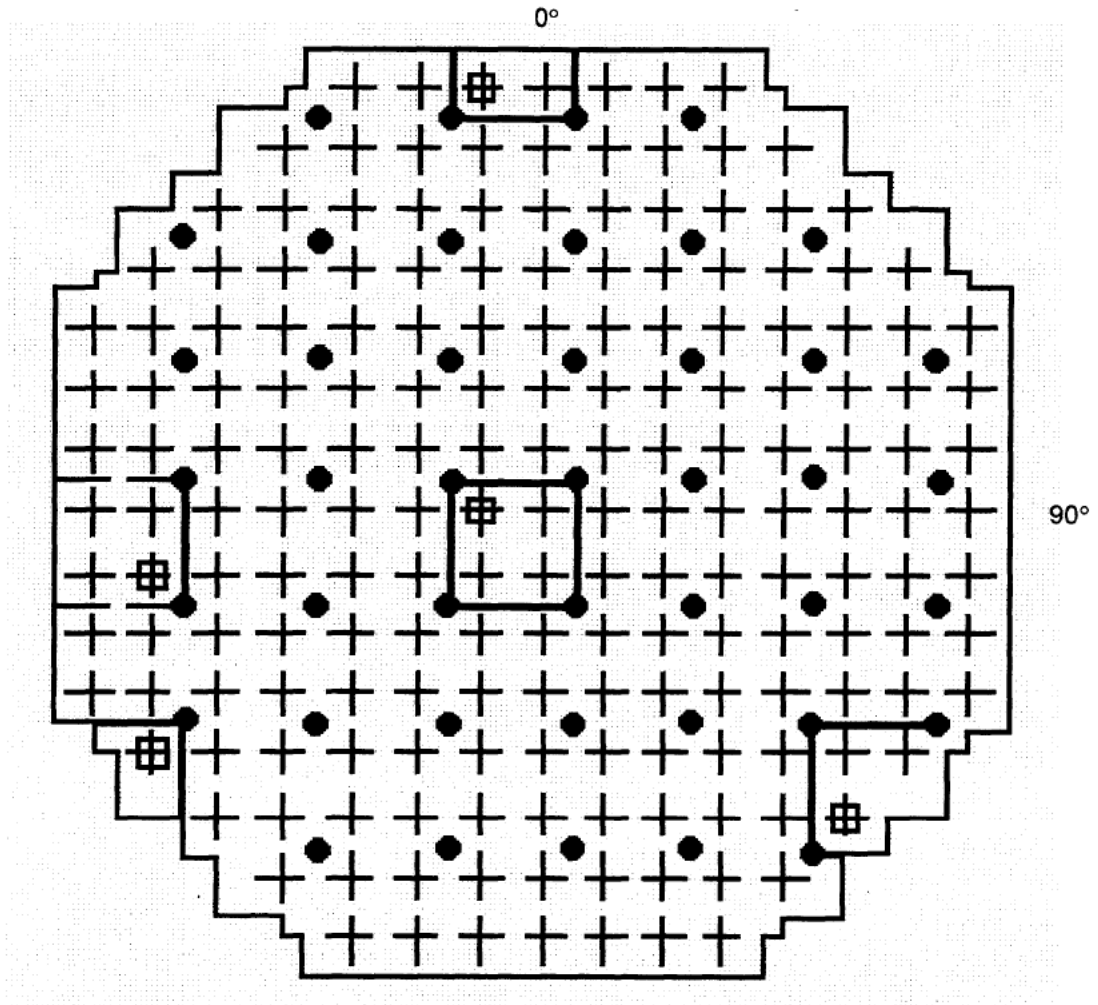
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REACTOR CONTROL BOARD

FIGURE 7.7.3

Rev. 18 04/01

CORE TOP VIEW



- LPRM DETECTOR ARRAY
- SELECTED ROD

THE RODS WITHIN THE HEAVILY MARKED LINES AROUND THE SELECTED ROD ARE THOSE PRESENTED ON THE FOUR ROD DISPLAY. THE LPRMs ASSOCIATED WITH THE MARKED RODS ARE PRESENTED ON THE RBM OPERATOR DISPLAY ASSEMBLIES.

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INPUT SIGNALS TO FOUR-ROD DISPLAY

FIGURE 7.7.4

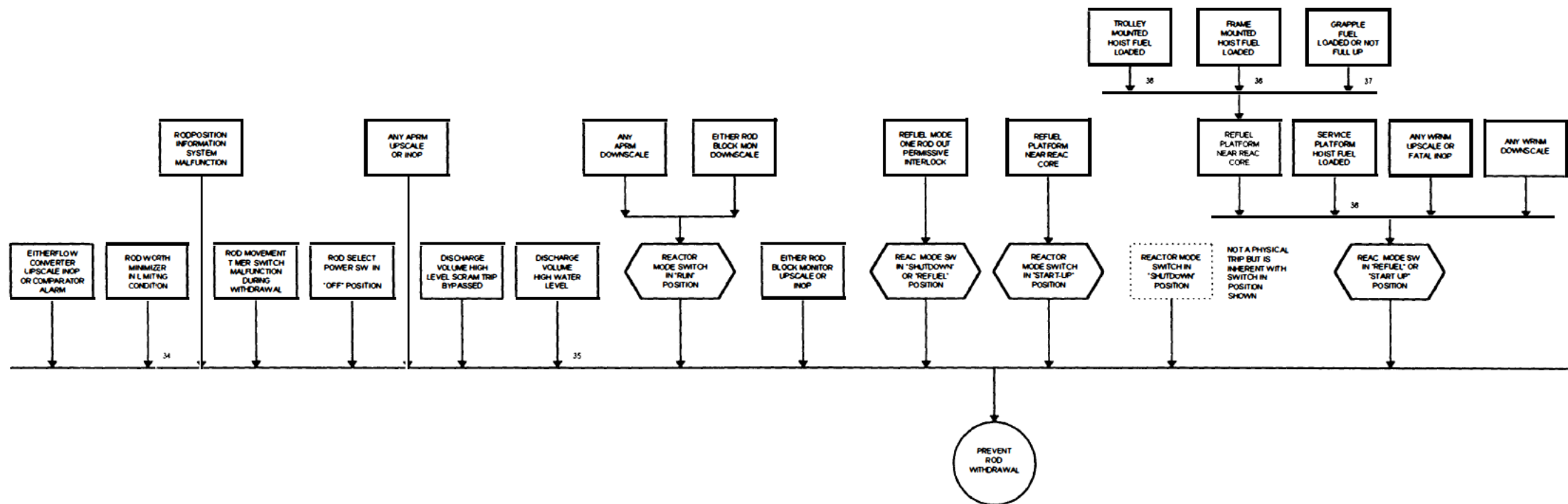
Rev. 18 04/01

59					XX	XX	XX	XX	XX	XX	XX				
55				XX	XX	XX	XX	XX	XX	XX	XX	XX			
51			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		
47		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
43	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
39	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
35	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
31	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
27	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
23	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
19	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
15		XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	
11			XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX		
07				XX	XX	XX	XX	XX	XX	XX	XX	XX			
03					XX	XX	XX	XX	XX	XX	XX				
	02	06	10	14	18	22	26	30	34	38	42	46	50	54	58

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TYPICAL PROCESS COMPUTER
PRINTOUT

FIGURE 7.7.5



THERMOCOUPLE PADS			
LOCATION	END PAD		DIRECTION OF CLAMP PAD IN RELATION TO END PAD
	AZIMUTH	DISTANCE FROM VESSEL O	
VESSEL FLANGE	15°	7.5"	TOWARDS VESSEL O
	130°	7.5"	15° R.O.
	270°	7.5"	270° R.O.
STEAM	15°	1.43"	0°
	30°	1.43"	270°
	270°	1.43"	0°
BELOW WATER LEVEL	5°	5.30"	0°
	130°	5.30"	270°
	255°	5.30"	0°
FEED WATER NOZZLE 4.B	SEE FIG. 1 (THERMOCOUPLES - DELETED)		
4.D	(THERMOCOUPLES - DELETED)		
VESSEL CORE	15°	2.86"	TOWARDS 0°
	130°	2.86"	270°
	270°	2.86"	270°
DOWNCOMER	15°	.39"	0°
	130°	.39"	270°
	270°	.39"	270°
-BOT. ABOVE SKIRT JCT	15°	.65"	0°
	110°	.65"	270°
	270°	.65"	270°
-BOT. BELOW SKIRT JCT	15°	.50"	0°
	110°	.50"	270°
	270°	.50"	270°
SKIRT	15°	.46"	0°
	130°	.46"	270°
	270°	.46"	270°
VESSEL BOTTOM	SEE VIEW AT "H"		
SKIRT ABOVE MTG. FLG	15°	.6"	TOWARDS 270°
	130°	.6"	270°
	270°	.6"	270°

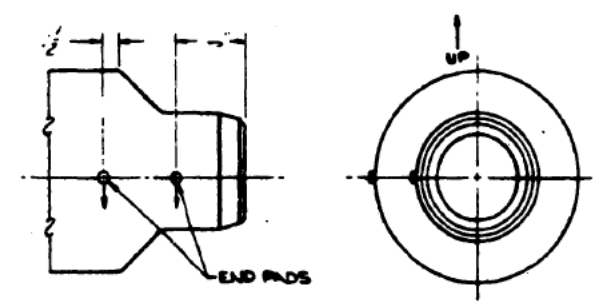
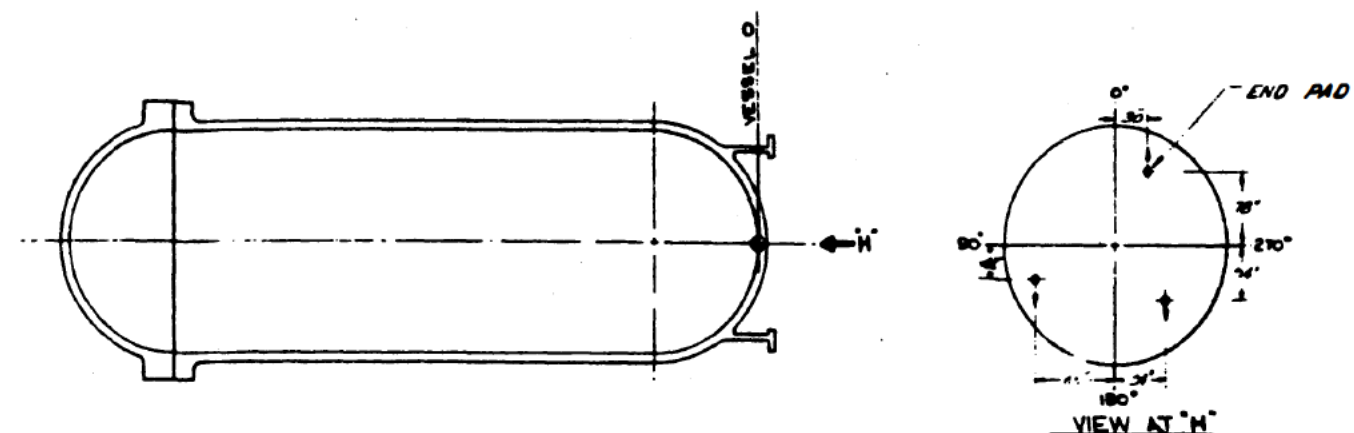
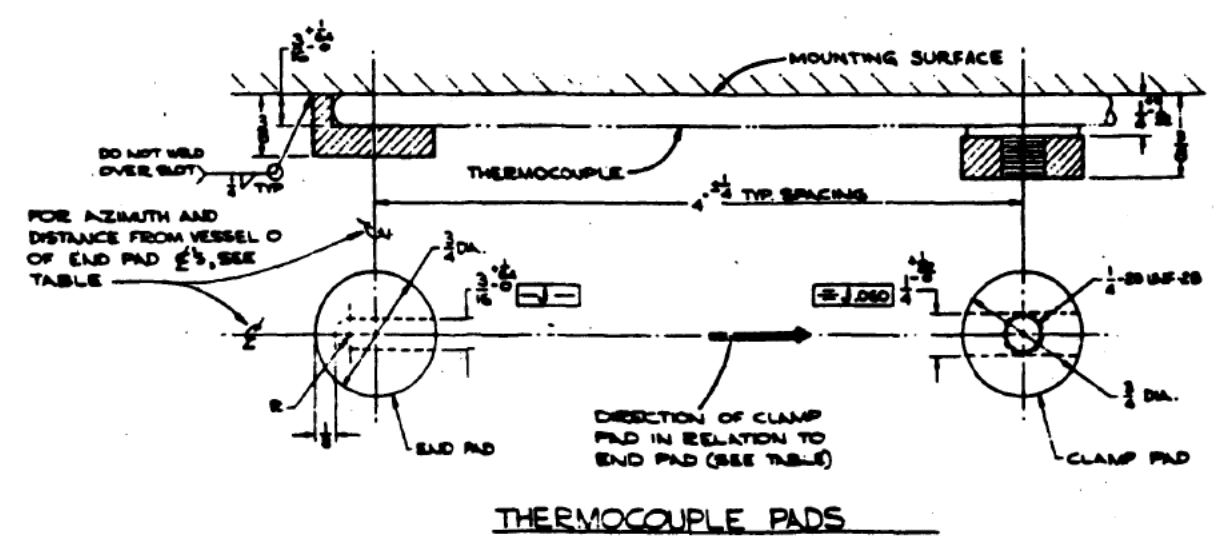


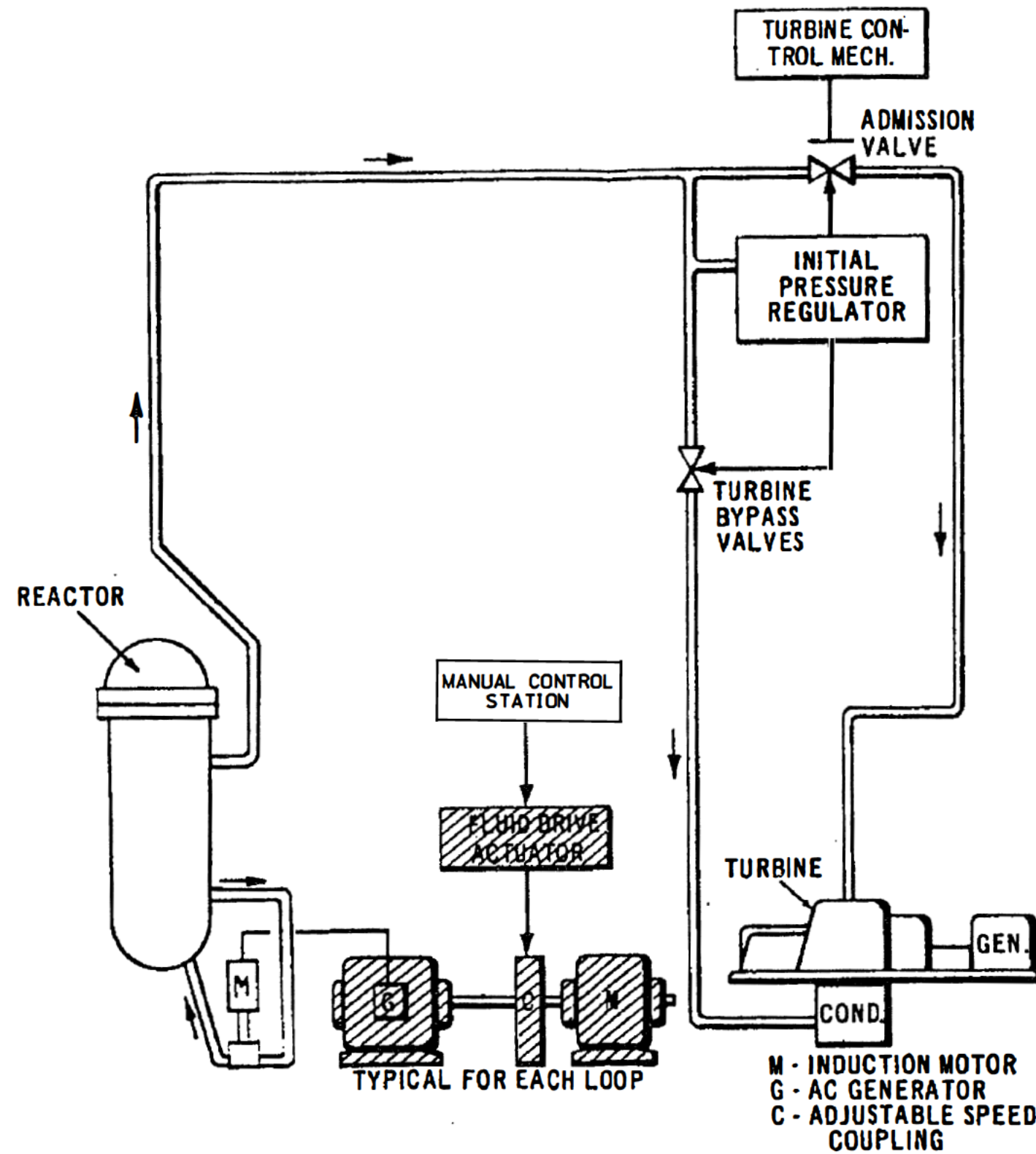
FIGURE 1



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NUCLEAR BOILER THERMOCOUPLE
 LOCATIONS

Figure 7.8.2 Rev. 21 04/07



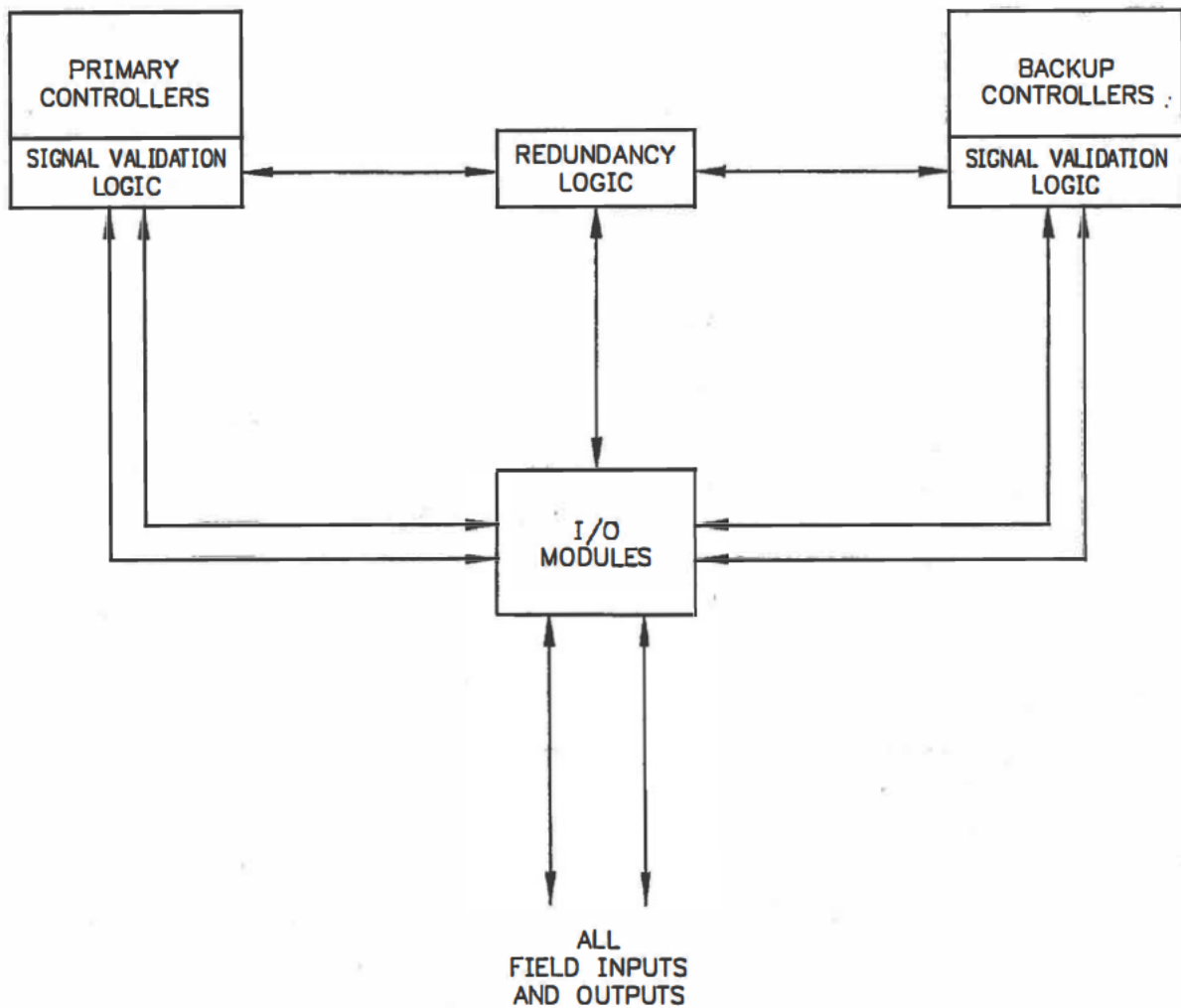
 RECIRCULATION FLOW CONTROL COMPONENTS

PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
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RECIRCULATION FLOW CONTROL
ILLUSTRATION

Figure 7.9.2 thru 7.9.4F

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PECO ENERGY COMPANY
PEACH BOTTOM ATOMIC POWER STATION
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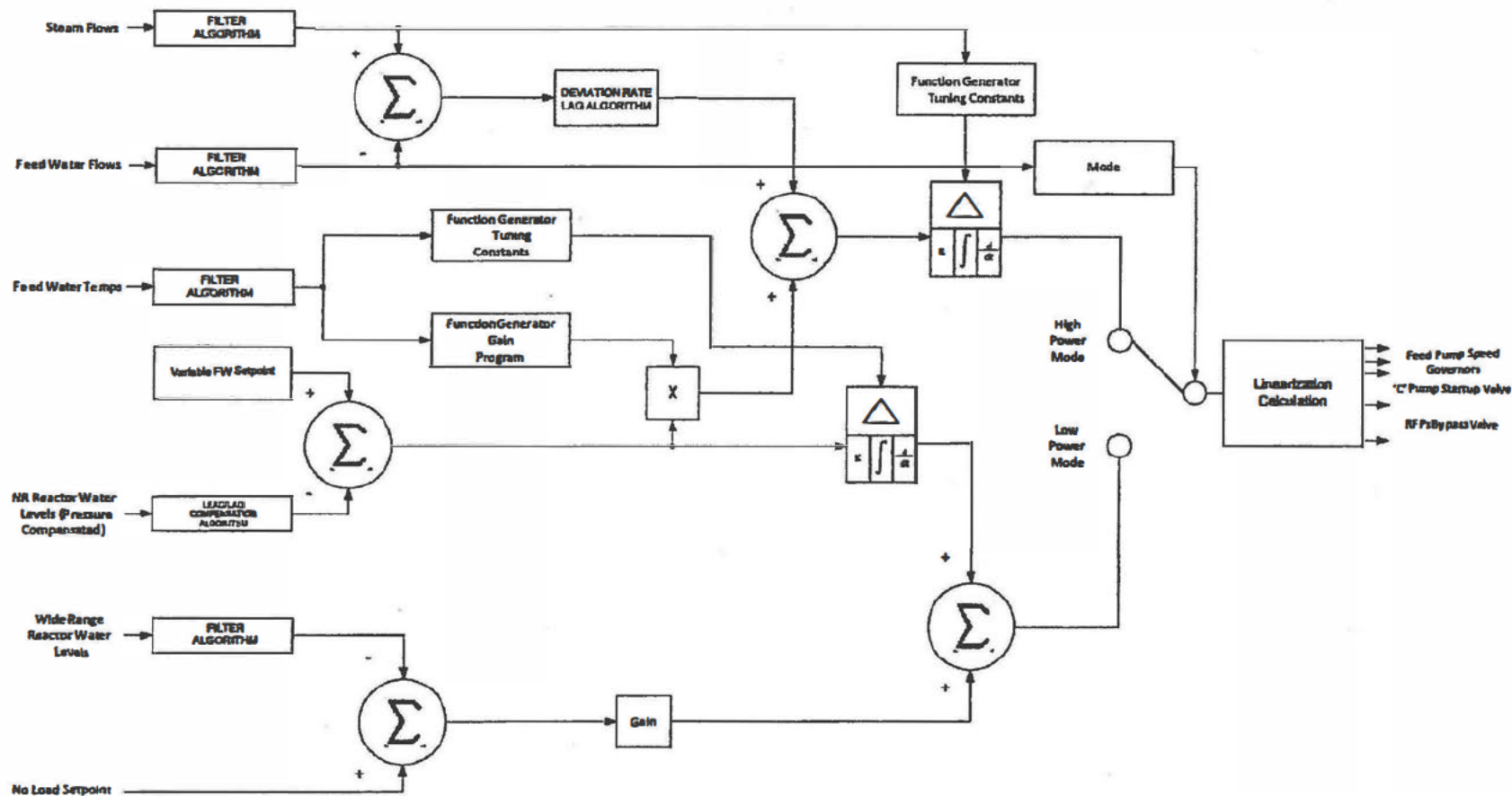
FEEDWATER CONTROL SYSTEM
DUAL REDUNDANT INDEPENDENT
COMPUTER ARCHITECTURE

FIGURE 7.10.1B

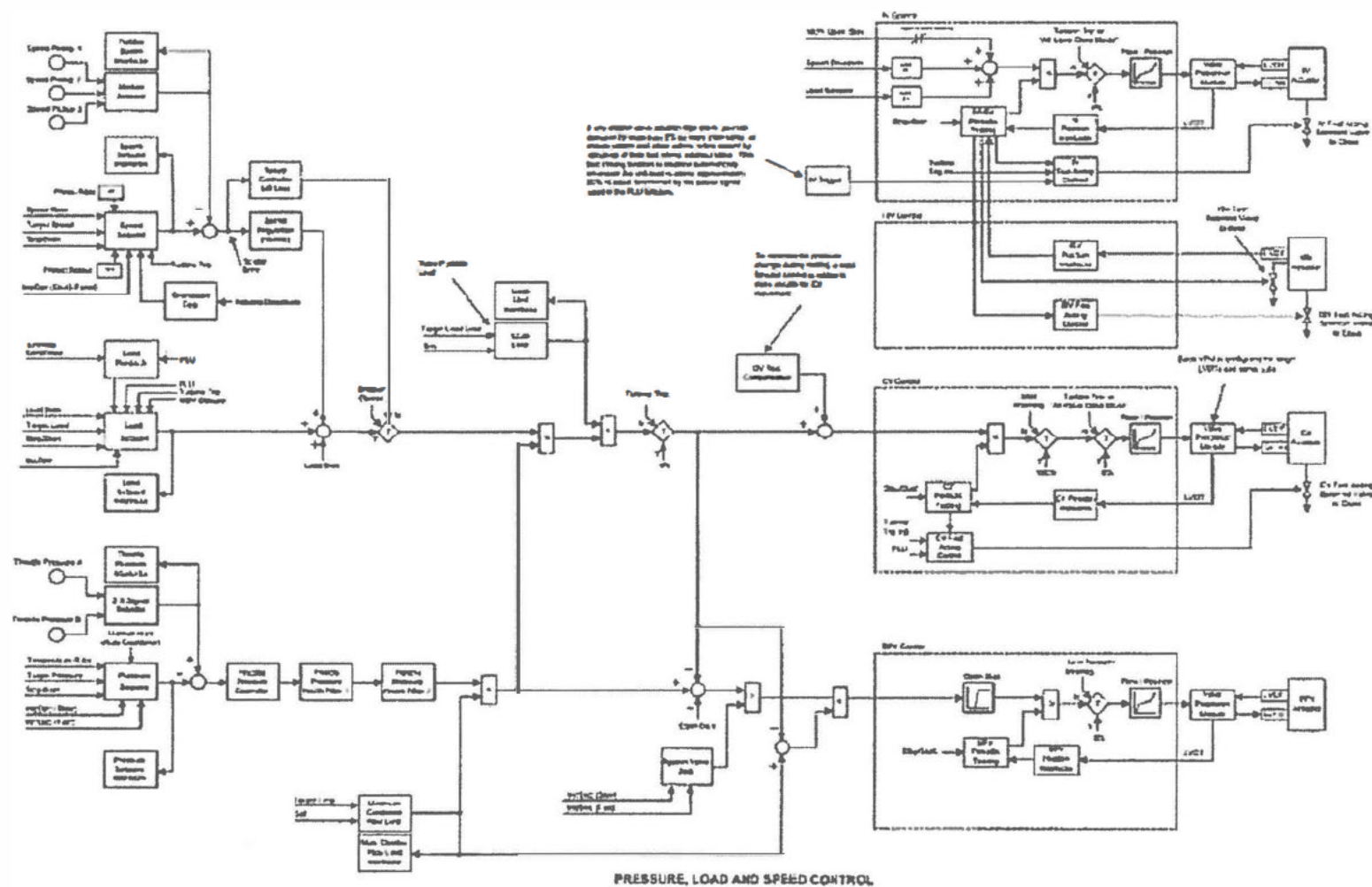
REV. 27 04/19

Figure 7.10.1 Sheet 2

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**Figure 7.11.1
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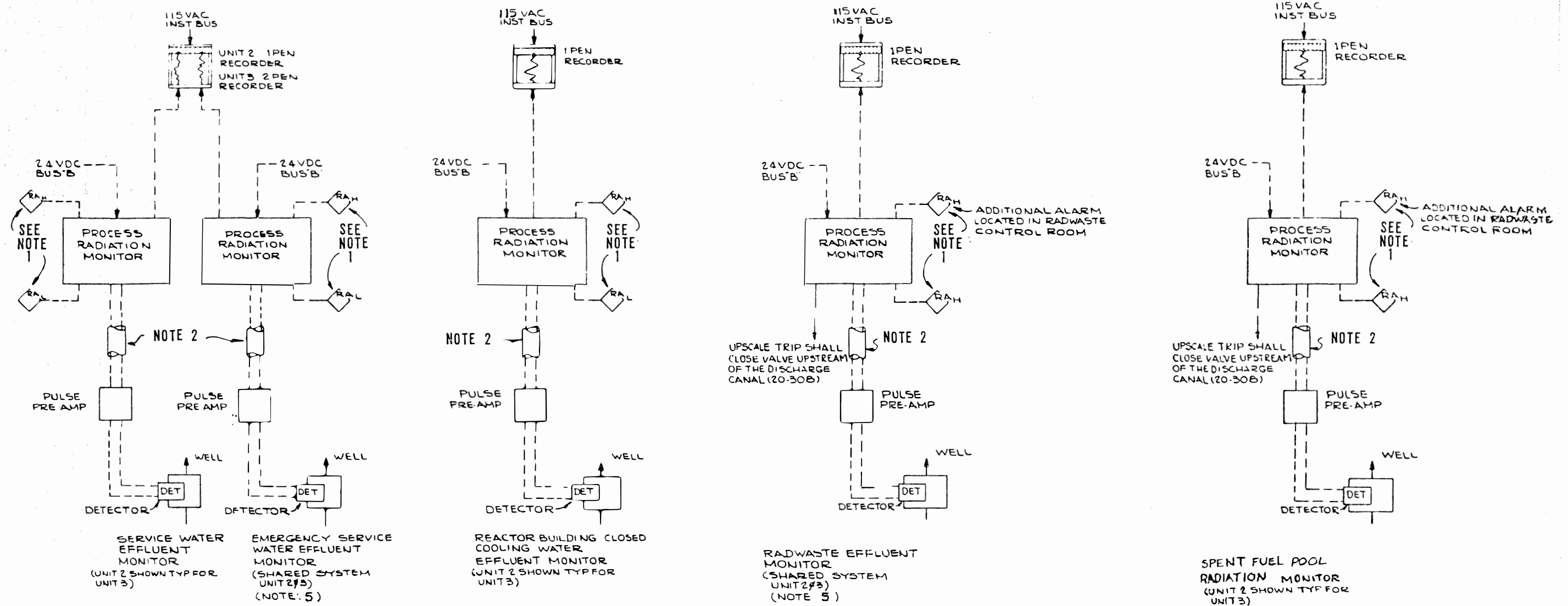
PRESSURE, LOAD AND SPEED CONTROL

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BLOCK DIAGRAM FOR PRESSURE, LOAD
AND SPEED CONTROL

Figure 7.12.1

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LIQUID PROCESS RADIATION MONITORS

SEE FIGURE 7.12.1 FOR NOTES

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PROCESS RADIATION MONITORING
SYSTEM INSTRUMENT ELECTRICAL
DRAWINGS

Figure 7.12.3

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Figure 7.13.1

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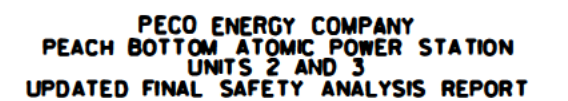
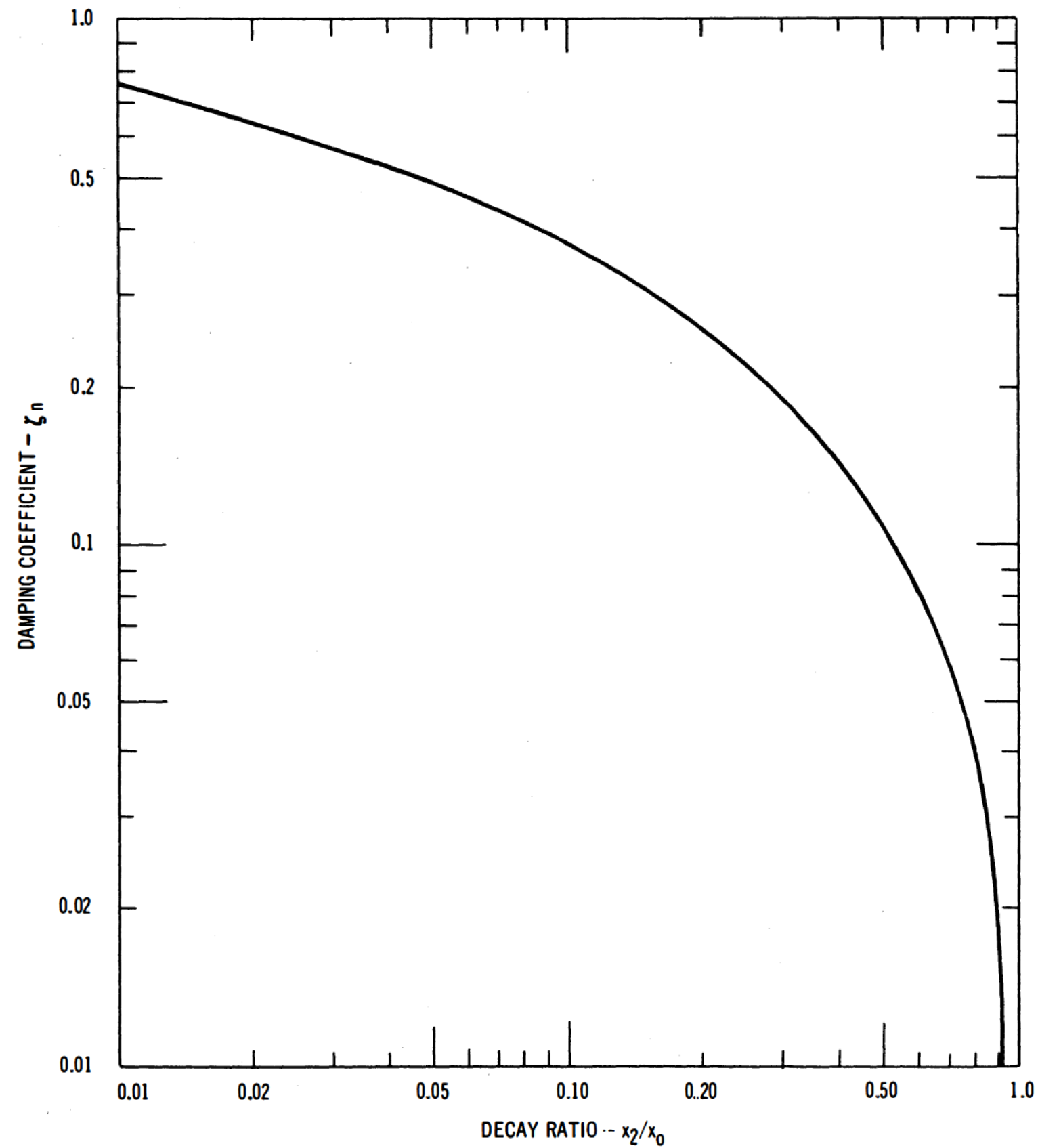


FIGURE 7.16.1

REV. 12 01/94



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DAMPING COEFFICIENT VERSUS
DECAY RATIO (SECOND ORDER
SYSTEMS)

FIGURE 7.17.1

Figure 7.20.1

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