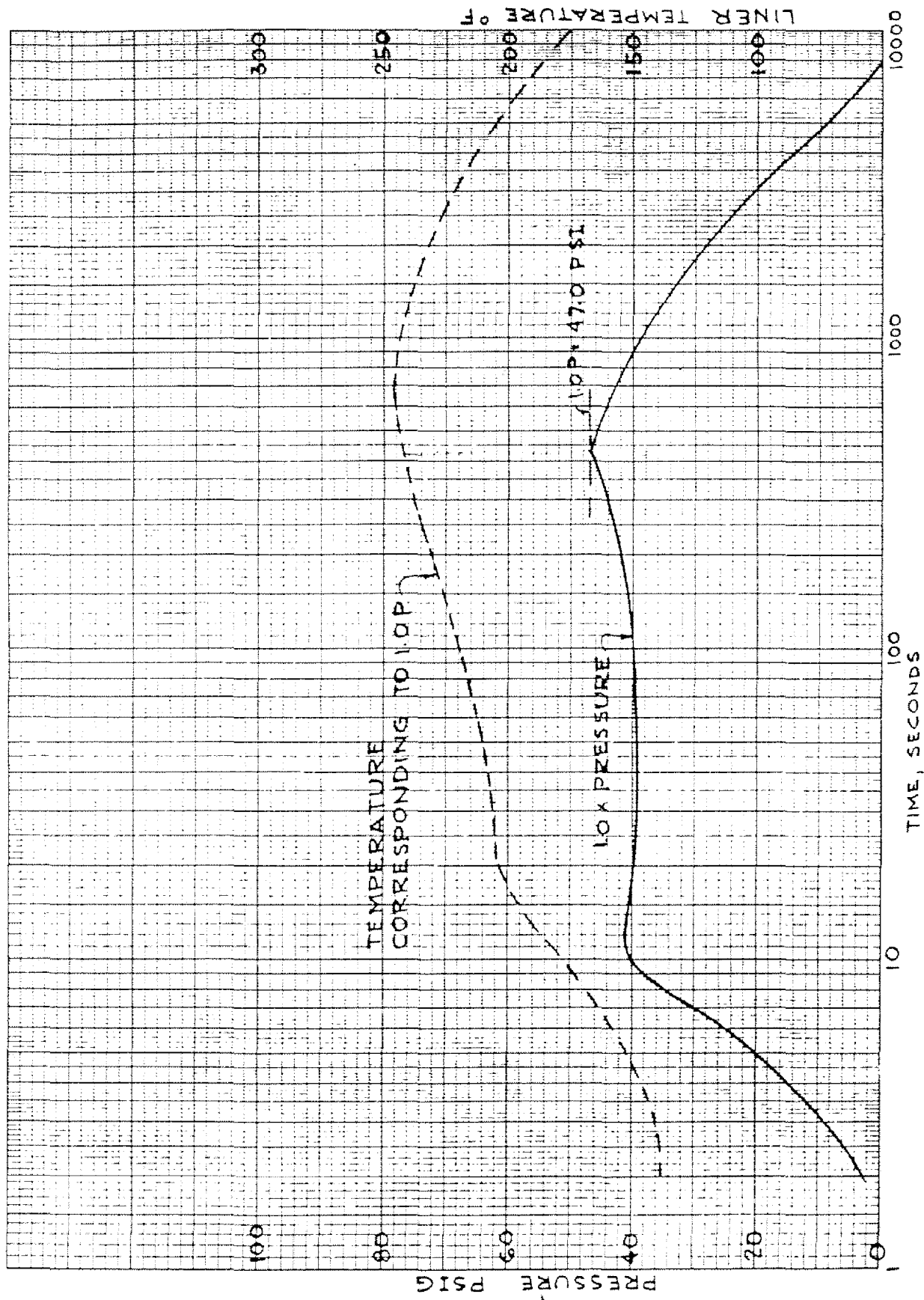


INDIAN POINT 3 FSAR UPDATE

CONTAINMENT STRUCTURE

REV. 1 NOV 2001

FIG. NO. 5.1-1



INDIAN POINT 3

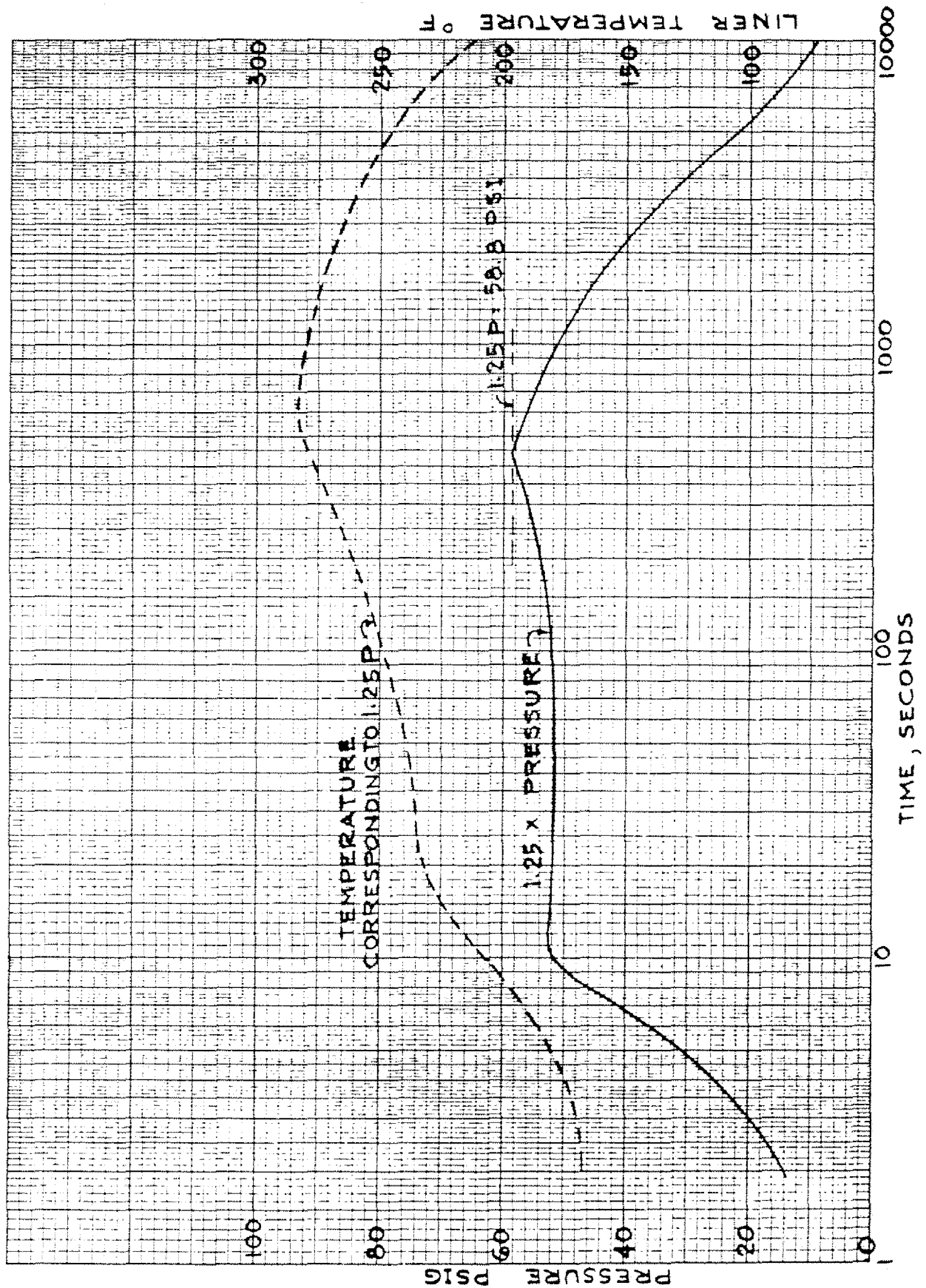
FSAR UPDATE

DESIGN PRESSURE-  
TEMPERATURE TRANSIENT

REV 0

JULY, 1982

FIGURE NO. 5.1-8



INDIAN POINT 3

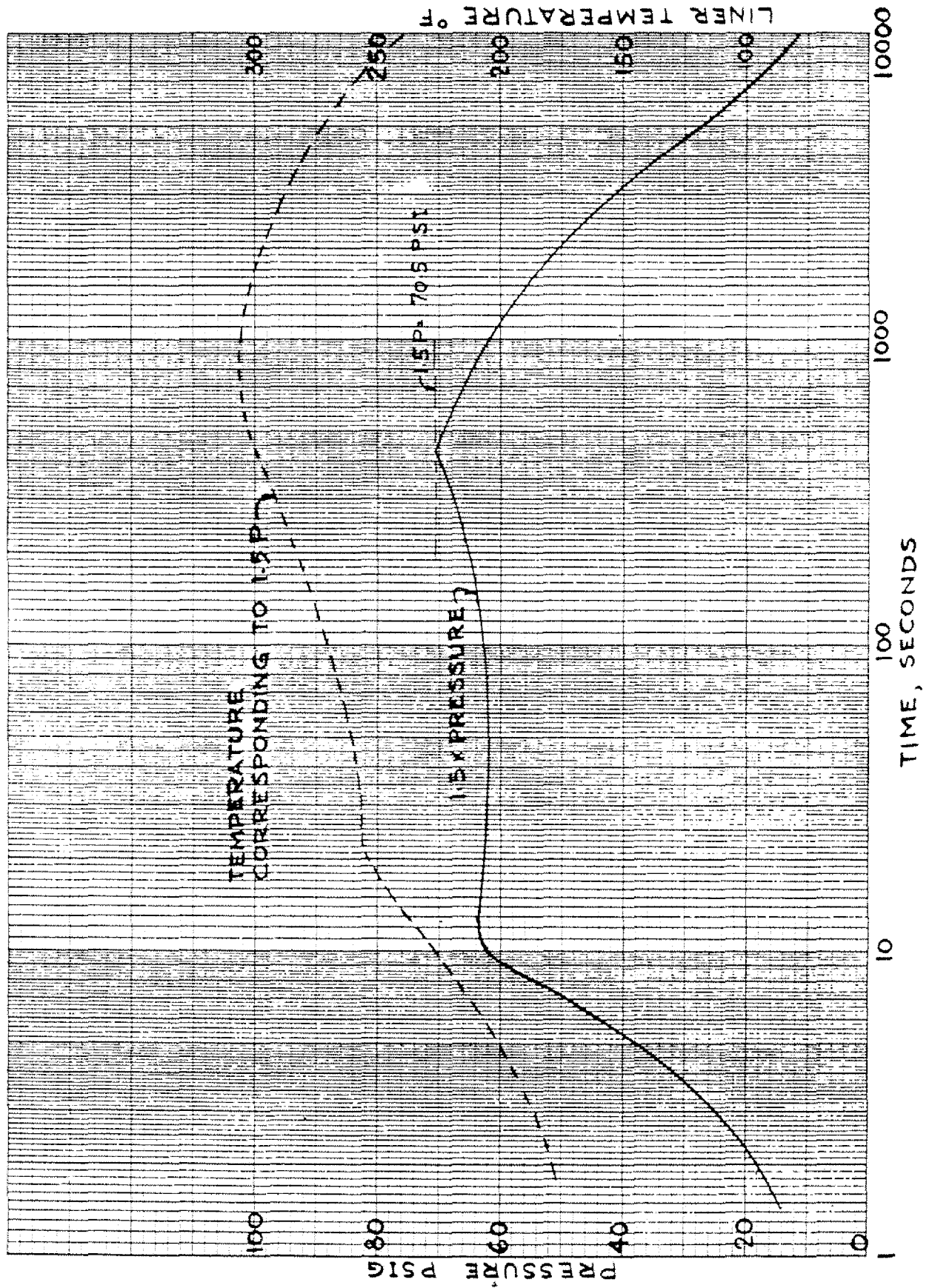
FSAR UPDATE

1.25 X DESIGN PRESSURE -  
TEMPERATURE TRANSIENT

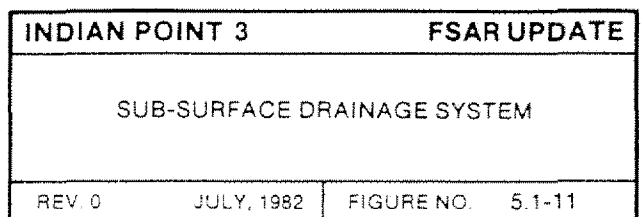
REV 0

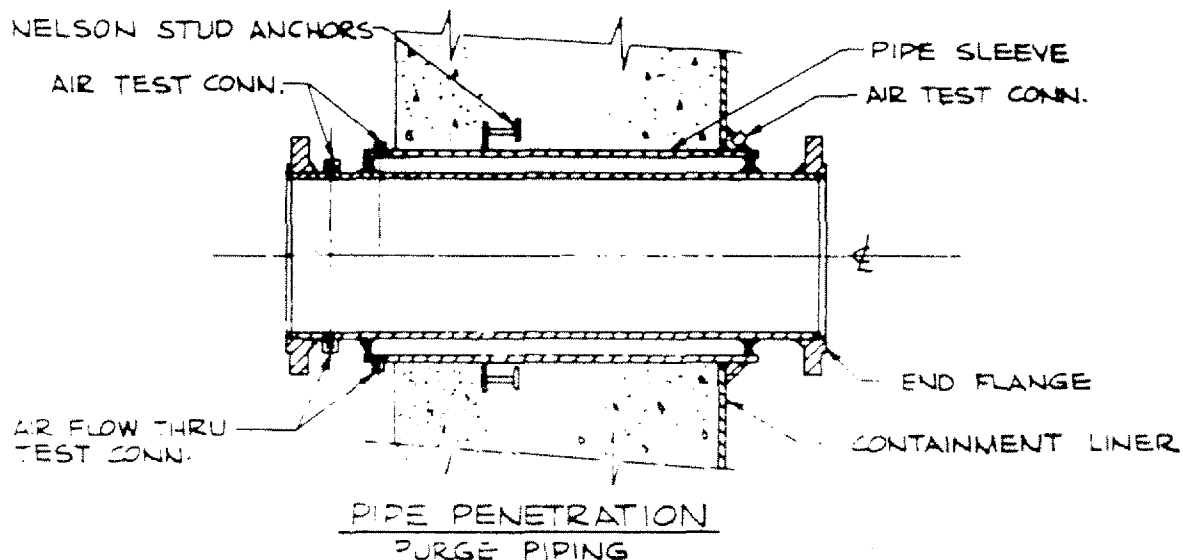
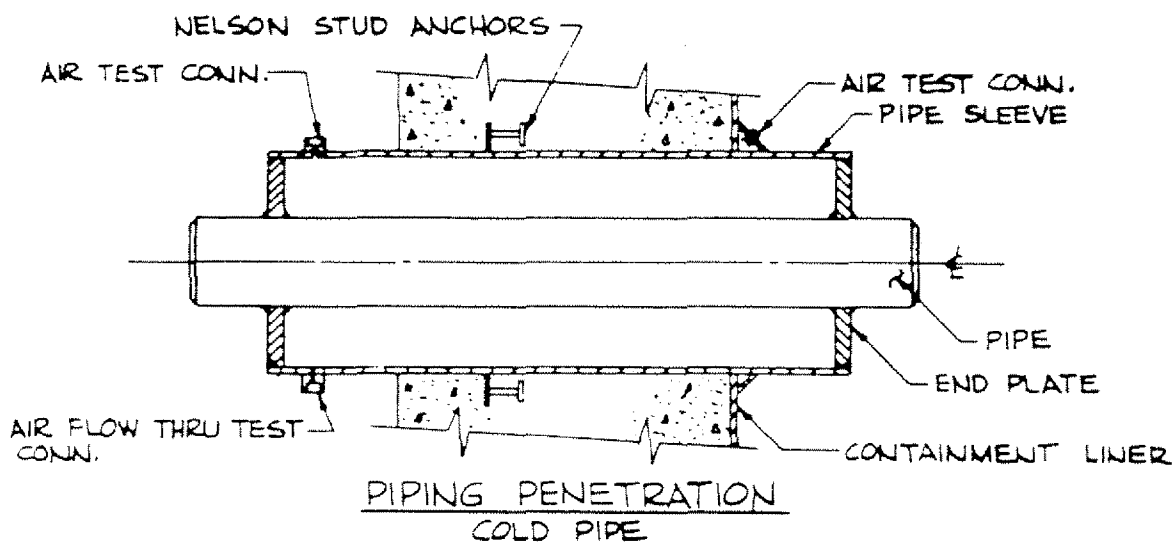
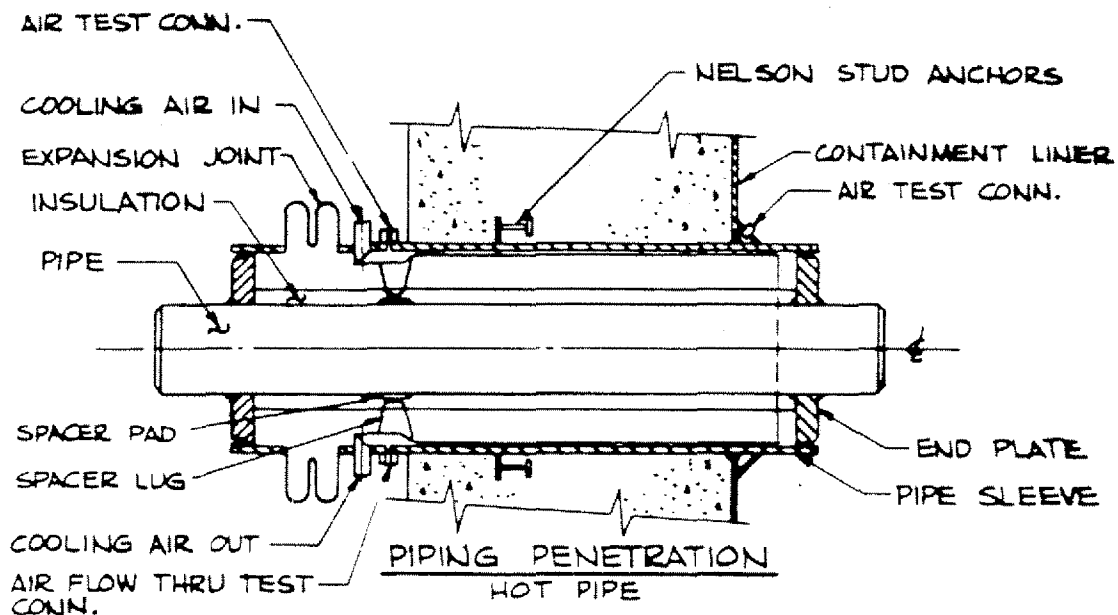
JULY, 1982

FIGURE NO. 5.1-9



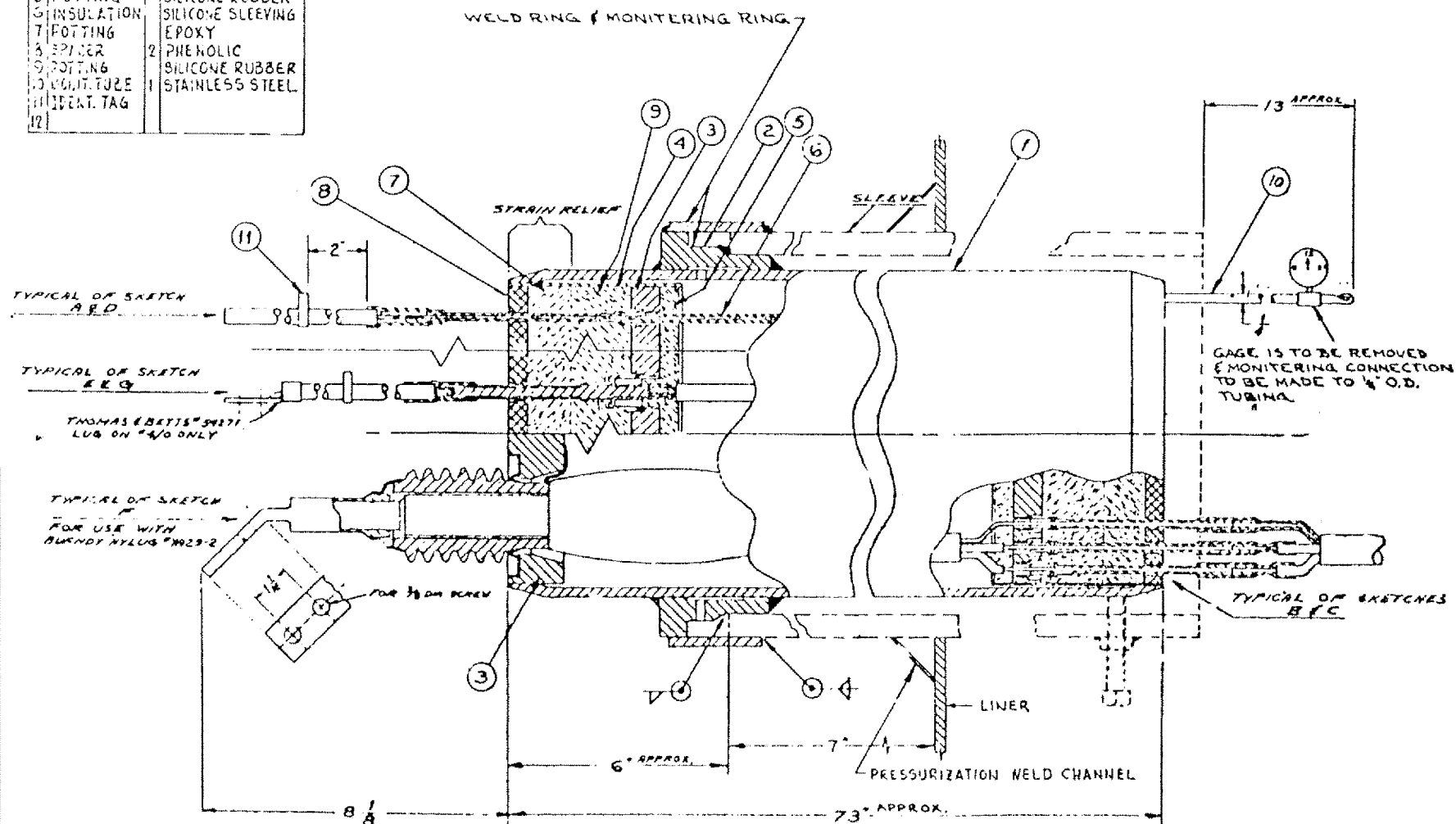
INDIAN POINT 3		FSAR UPDATE	
1.50 X DESIGN PRESSURE - TEMPERATURE TRANSIENT			
REV. 0	JULY, 1982	FIGURE NO.	5.1-10





INDIAN POINT 3	FSAR UPDATE
TYPICAL PIPING PENETRATION	
REV. 1	REV. 2

NO	PART NAME	QTY	DESCRIPTION
1	CONTAINER	1	STAINLESS STEEL
2	FLANGE	1	CARBON STEEL
3	HEADER	2	STAINLESS STEEL
4	TUBE	2	STAINLESS STEEL
5	POTTING		SILICONE RUBBER
6	INSULATION		SILICONE SLEEVING
7	POTTING		EPOXY
8	SPICER	2	PHENOLIC
9	POTTING		SILICONE RUBBER
10	CONDUIT TUBE	1	STAINLESS STEEL
11	IDENT. TAG		
12			



INDIAN POINT 3

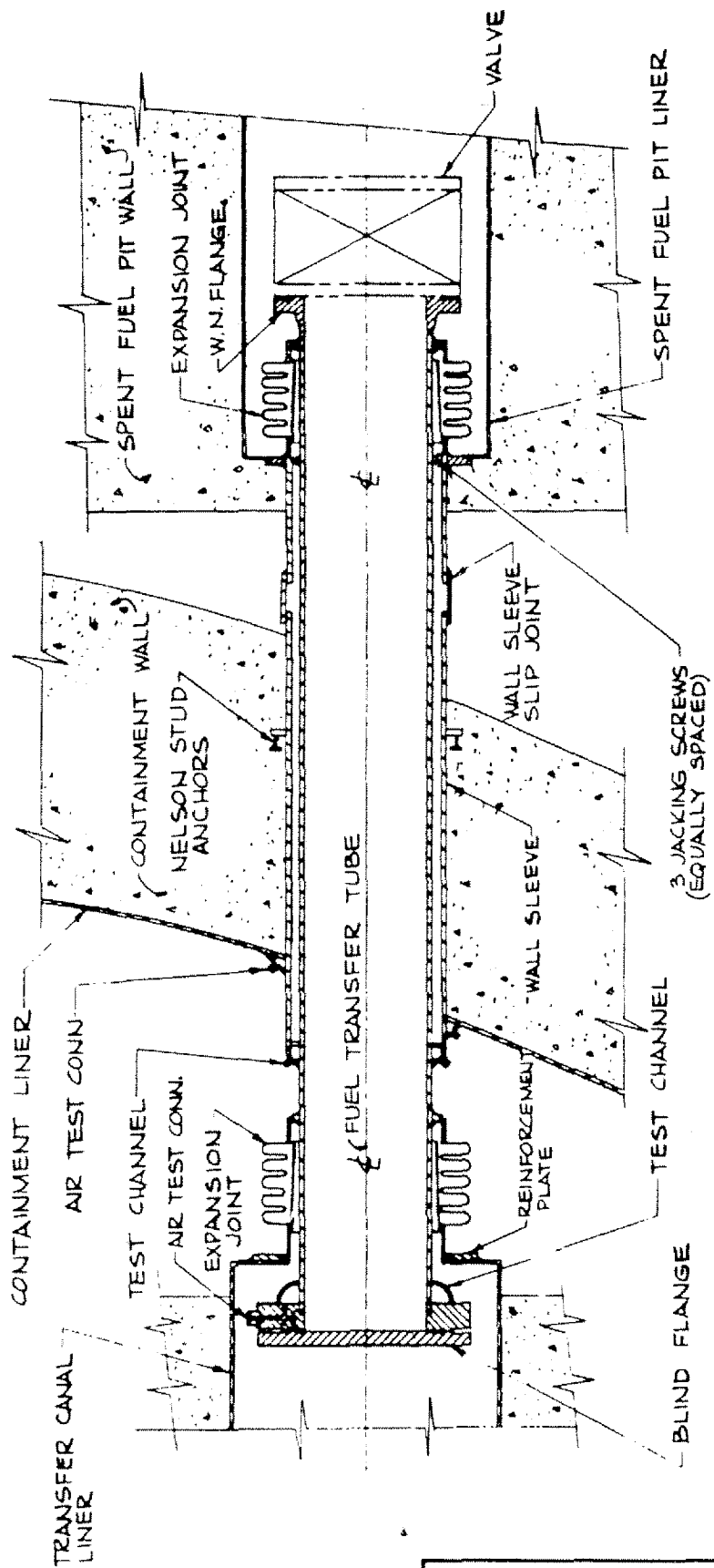
FSAR UPDATE

TYPICAL ELECTRICAL PENETRATION

REV A

JULY 1989

FIGURE NO. E-113



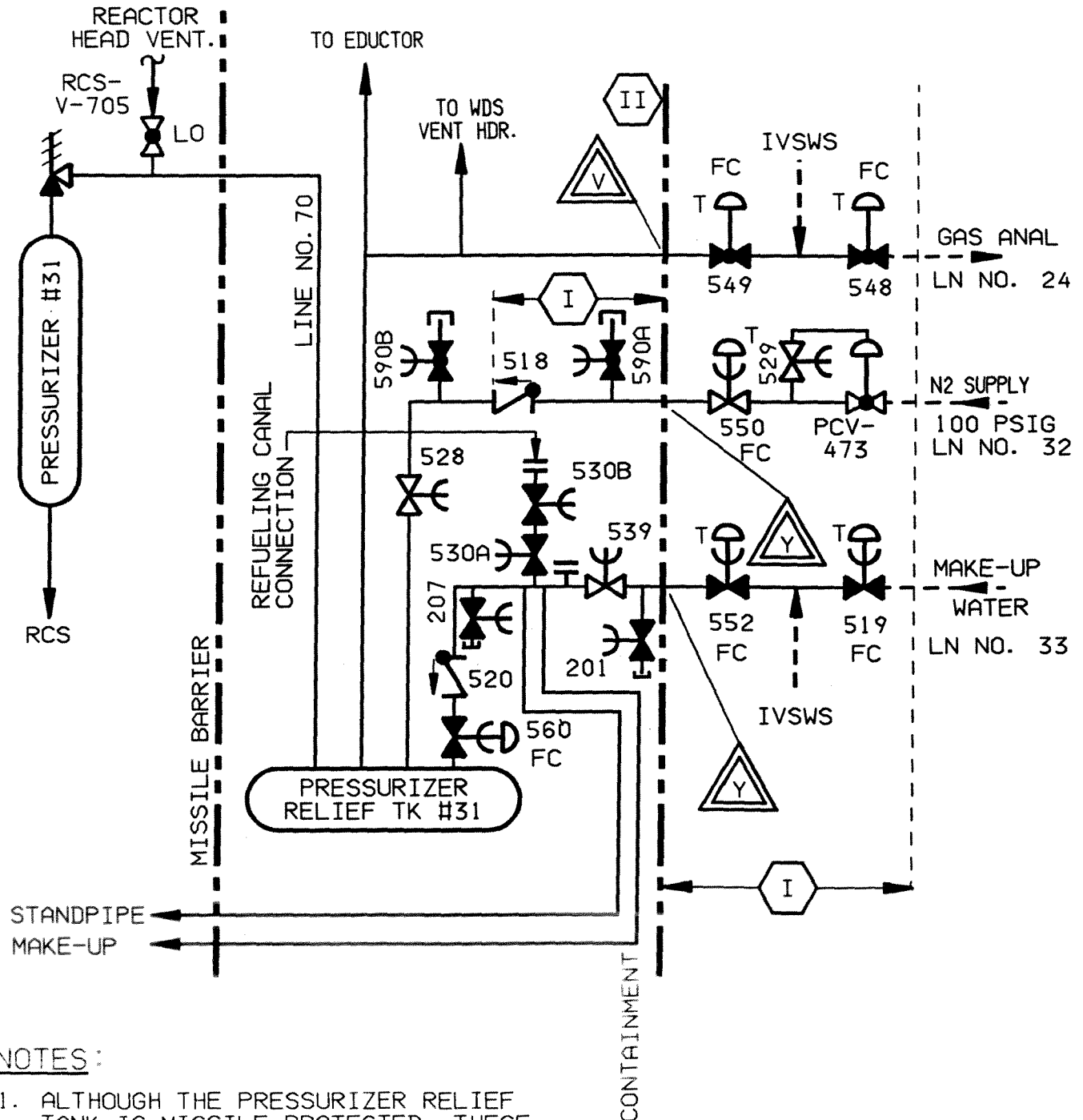
INDIAN POINT 3		FSAR UPDATE	
FUEL TRANSFER TUBE PENETRATION			
REV. 0	JULY, 1982	FIGURE NO.	5.1-14



LINE NO. 24 PRESSURIZER RELIEF TANK TO GAS ANALYZER

LINE NO. 32 PRESSURIZER RELIEF TANK N<sub>2</sub> SUPPLY

LINE NO. 33 PRESSURIZER RELIEF TANK MAKE-UP



#### NOTES:

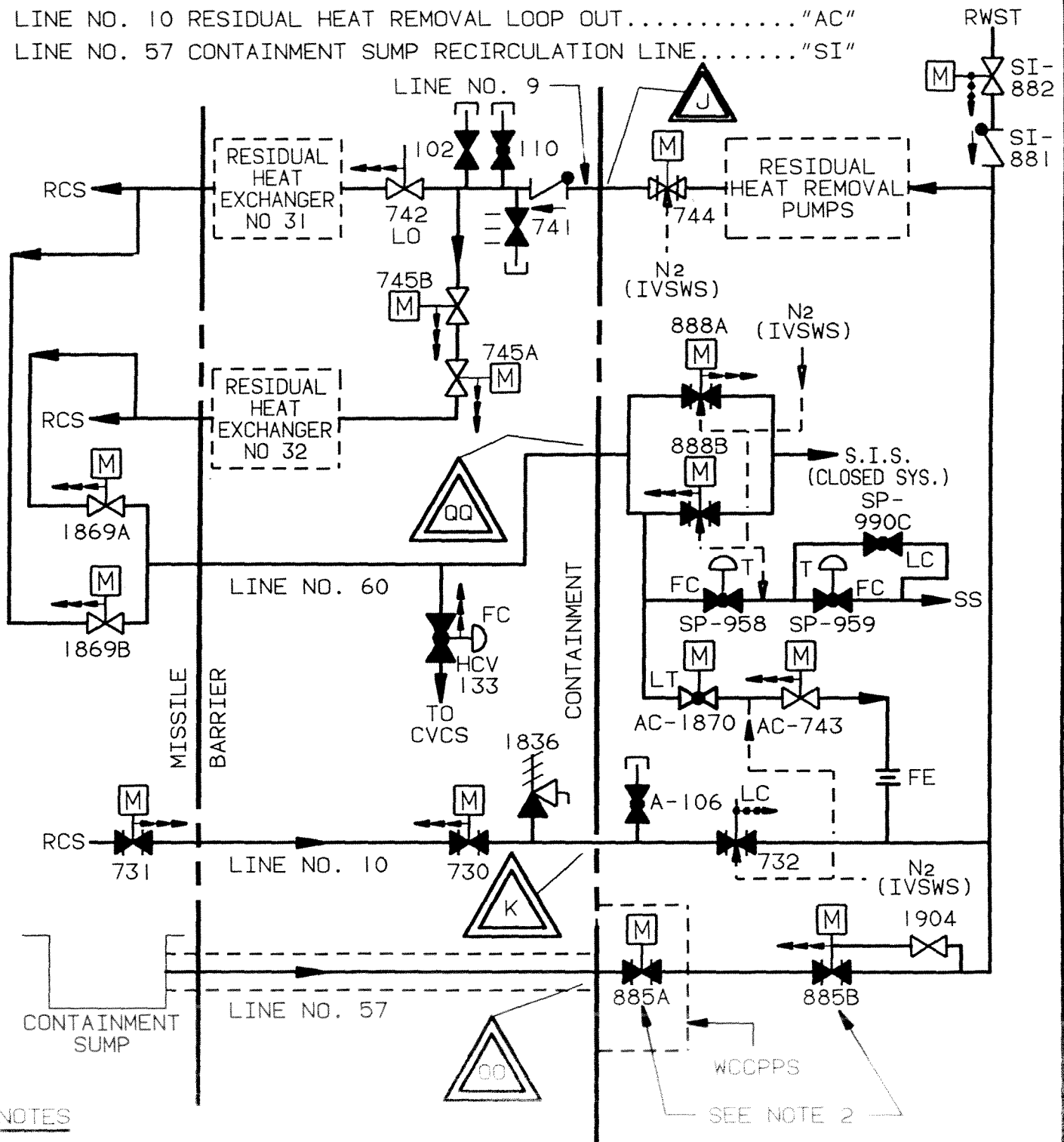
1. ALTHOUGH THE PRESSURIZER RELIEF TANK IS MISSILE PROTECTED, THESE PENETRATING LINES CAN BECOME EXPOSED TO CONTAINMENT ATMOSPHERE IF THE PRESSURIZER DISCHARGE HEADER IS BREACHED DURING THE ACCIDENT.
2. FOR LEGEND, SEE FIG. 5.2-29
3. ALL VALVE NOS. ARE PRECEDED BY "RC"

#### INDIAN POINT 3 FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LINES 24, 32 & 33

REV. 6 NOV. 2001 | FIGURE NO. 5.2-1

LINE NO. 9 RESIDUAL HEAT REMOVAL RETURN LINE....."AC"  
 LINE NO. 60 RESIDUAL HEAT REMOVAL LOOP TO S.I. PUMPS.."SI"  
 LINE NO. 10 RESIDUAL HEAT REMOVAL LOOP OUT....."AC"  
 LINE NO. 57 CONTAINMENT SUMP RECIRCULATION LINE....."SI"



## NOTES

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN
2. DDV MODIFIED TO FUNCTION AS A SINGLE DISC GATE VALVE. 885A UPSTREAM DISC MODIFIED WITH 3/16" HOLE. 885B BONNET CONNECTION BYPASSES DOWNSTREAM DISC.
3. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
 SCHEMATICS - LINES 9, 10, 57 & 60

REV. 3

JUN. 1999

FIG. 5.2-2

The diagram illustrates the Reactor Cooling System (RCS) configuration. It shows the flow from the Reactor Core (R) through the Primary Loop (SLOPE) and Secondary Loop (IVSWS) to the Reactor Heat Exchanger (REGEN. HEAT EXCH. #31) and the Closed Venting System (CVCS). The system is divided into three sections: MISSILE BARRIER, CONTAINMENT, and CVCS (CLOSED SYSTEM). Key components include valves (210A, 210B, 211, 212, 204A, 204B, 205, 226, 109, 228, 227), pumps (M), and a high-pressure vent (HCV 142). The flow is controlled by various valves and pumps, ensuring the system remains in a closed state unless necessary for venting.

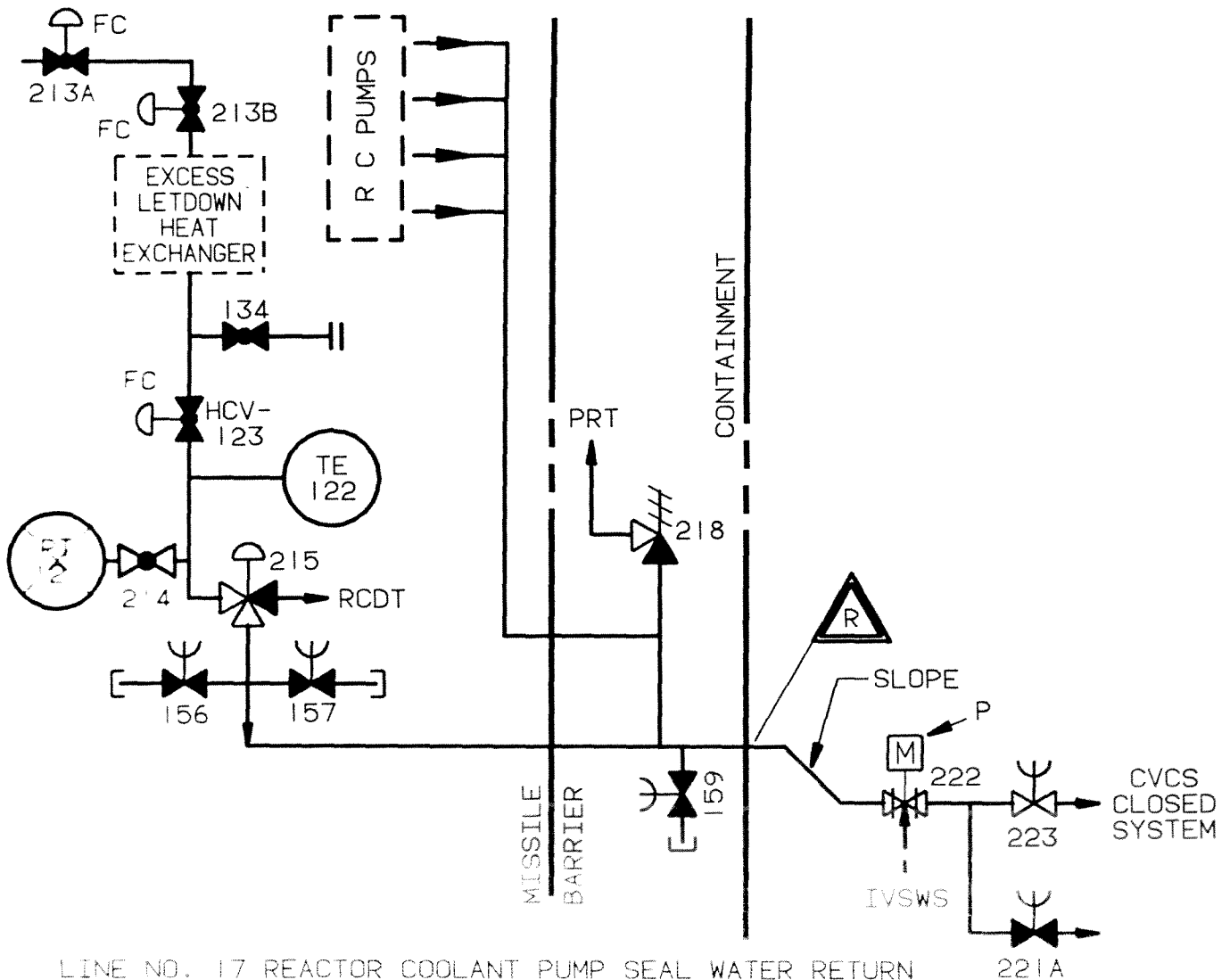
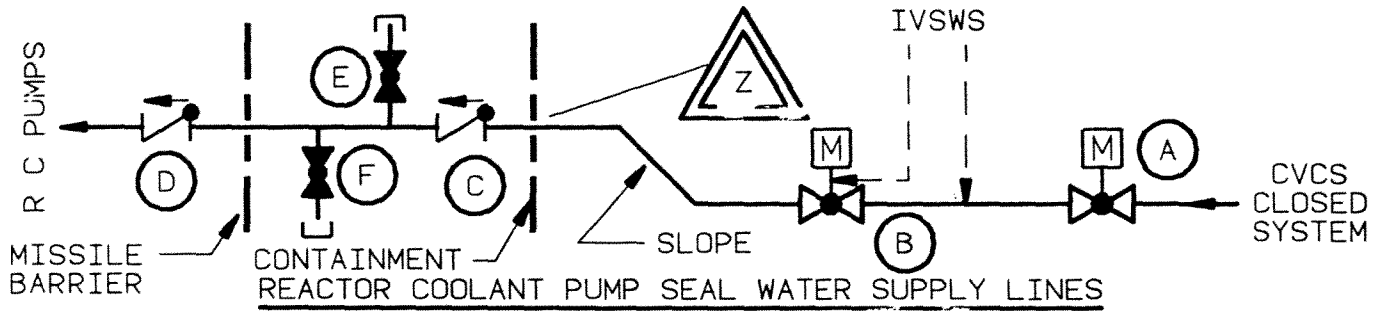
1. FOR LEGEND, SEE FIGURE 5.2-29
2. ALL VALVE NOS. ARE PRECEDED BY "CH"
3. ENTIRE SYSTEMS SHOWN ARE SEISMIC CLASS I DESIGN.

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 19 & 27

REV. 3 JUN, 1999 | FIGURE NO. 5.2-3

# V A L V E S   N U M B E R S

LINE NO.	A	B	C	D	E	F
41	441	250A	251E	251J	121	122
42	442	250B	251F	251K	119	-
43	443	250C	251G	251L	117	118
44	444	250D	251H	251M	115	147



## NOTES

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I
2. ALL VALVE NOS. ARE PRECEDED BY "CH"
3. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

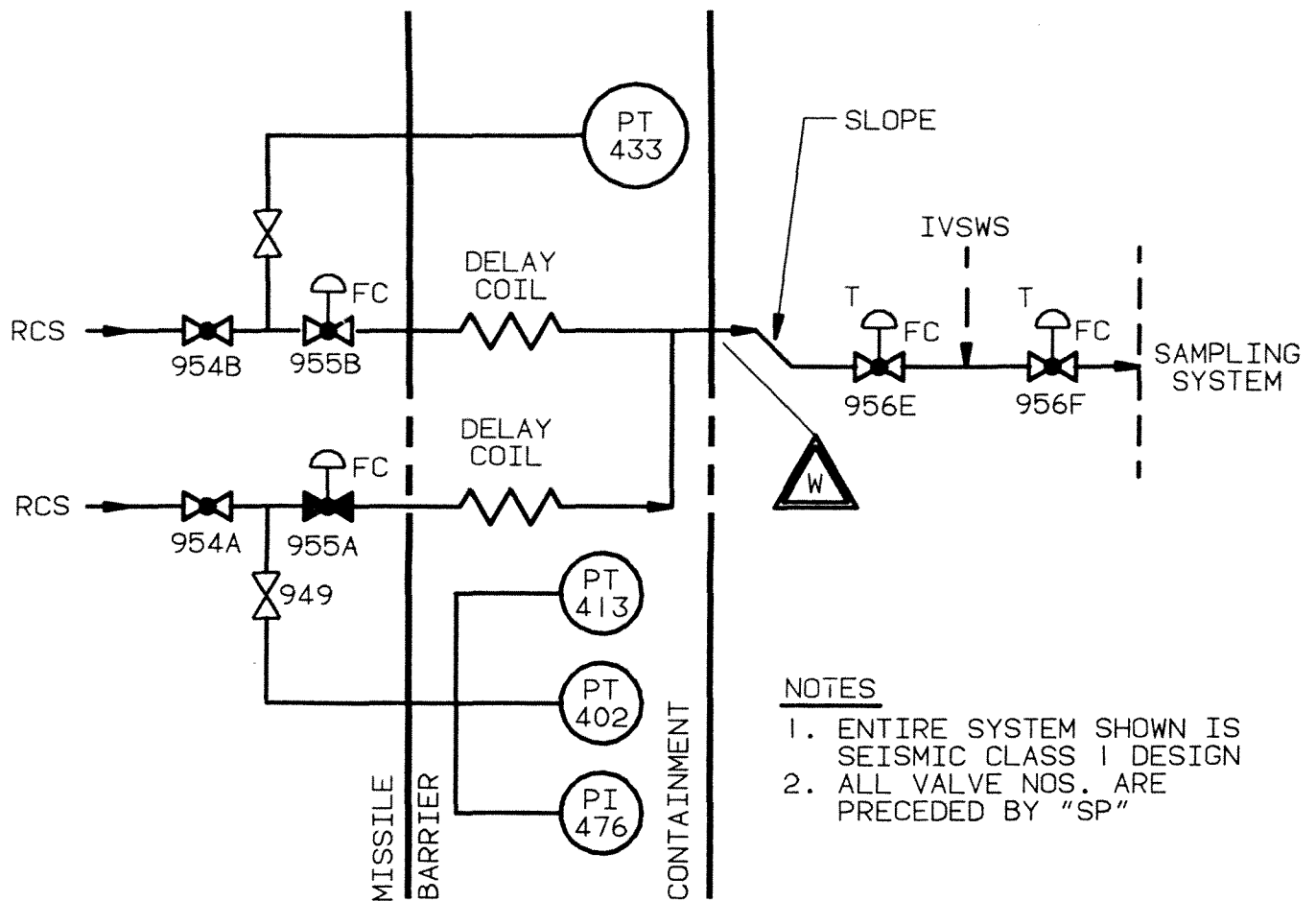
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 17, 41, 42, 43 & 44

REV. 4

JUN. 1999

FIG. 5.2-4

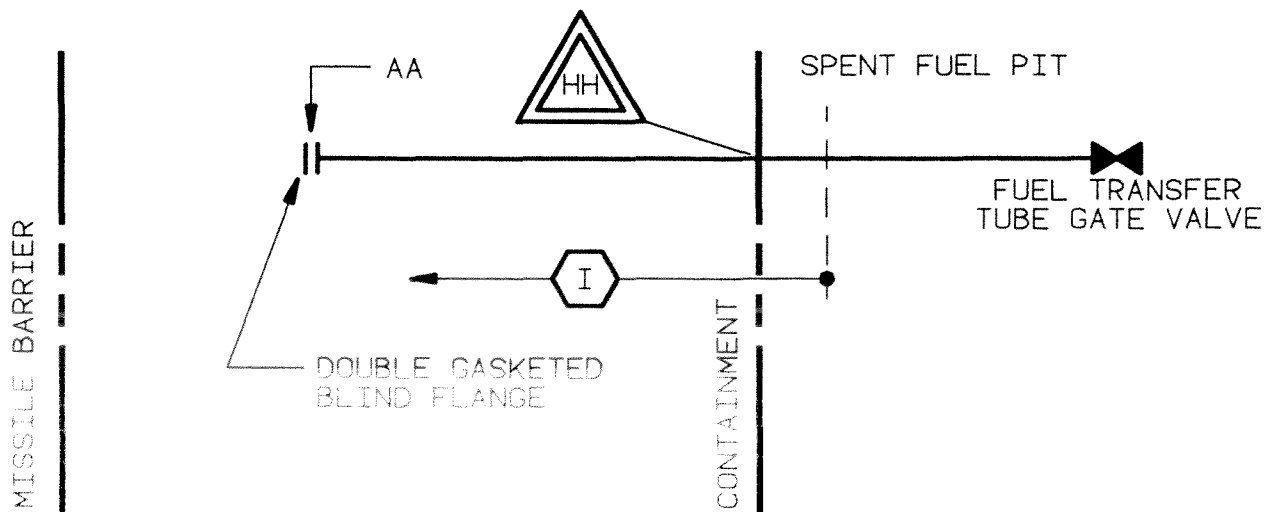
# REACTOR COOLANT SYSTEM SAMPLE LINE NO.59



## NOTES

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN
2. ALL VALVE NOS. ARE PRECEDED BY "SP"

## FUEL TRANSFER TUBE



## NOTES

1. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

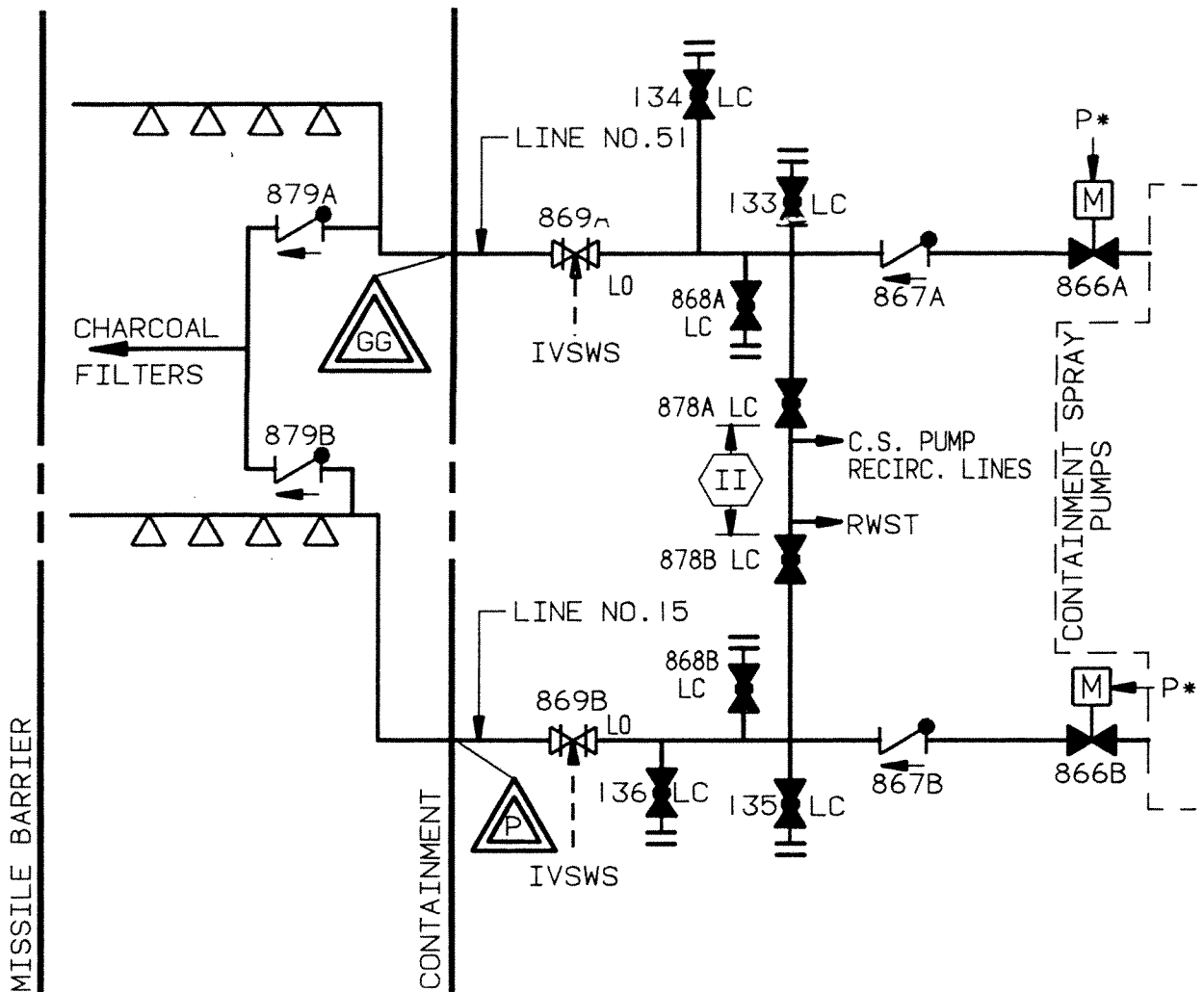
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 59 AND  
FUEL TRANSFER TUBE

REV. 2

JUN. 1999

FIG. 5.2-5

# LINE NO. 15 & 51 CONTAINMENT SPRAY HEADERS



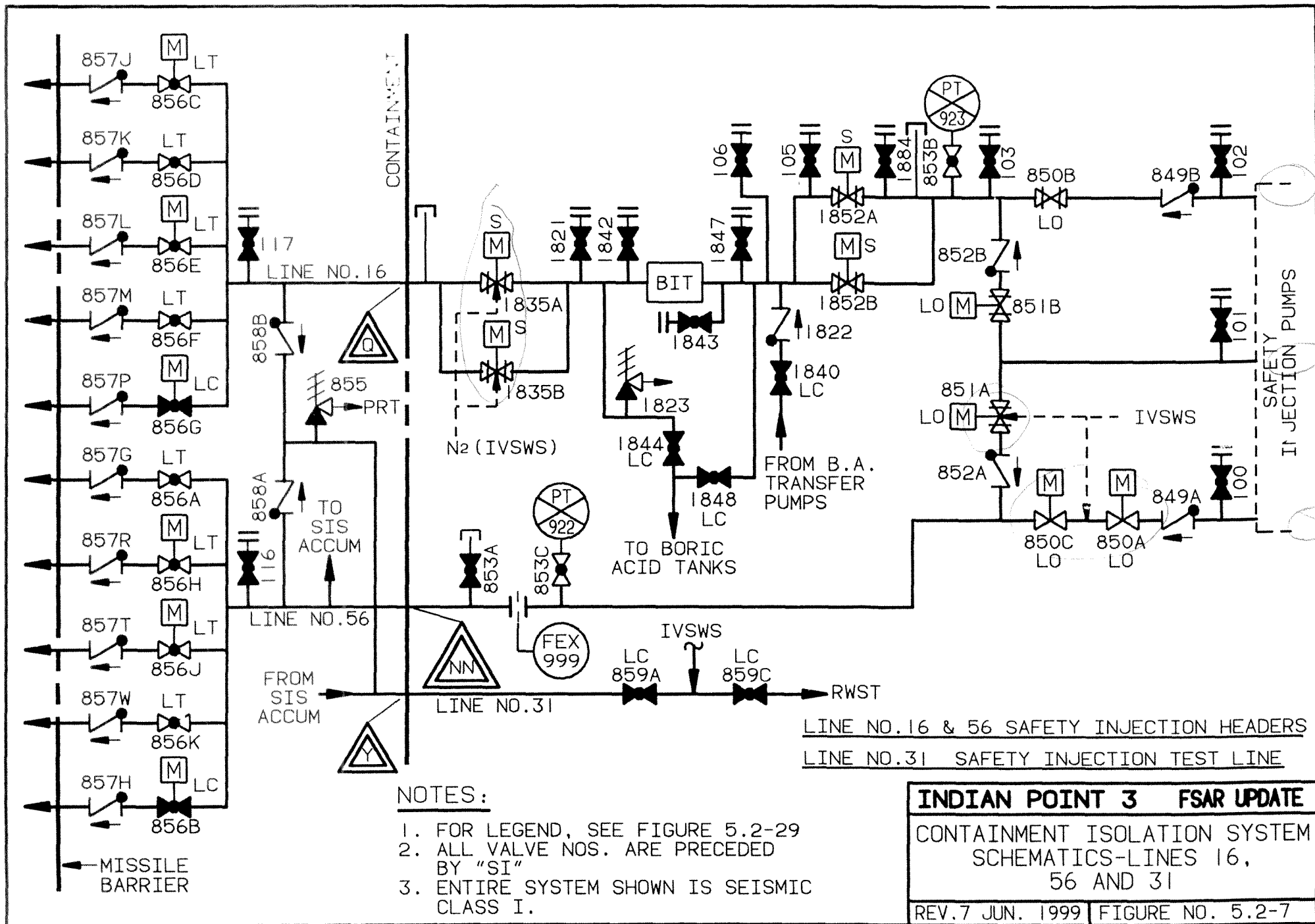
## NOTES:

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN EXCEPT AS NOTED.
2. FOR LEGEND, SEE FIGURE 5.2-29
3. ALL VALVE NOS. ARE PRECEDED BY "SI"

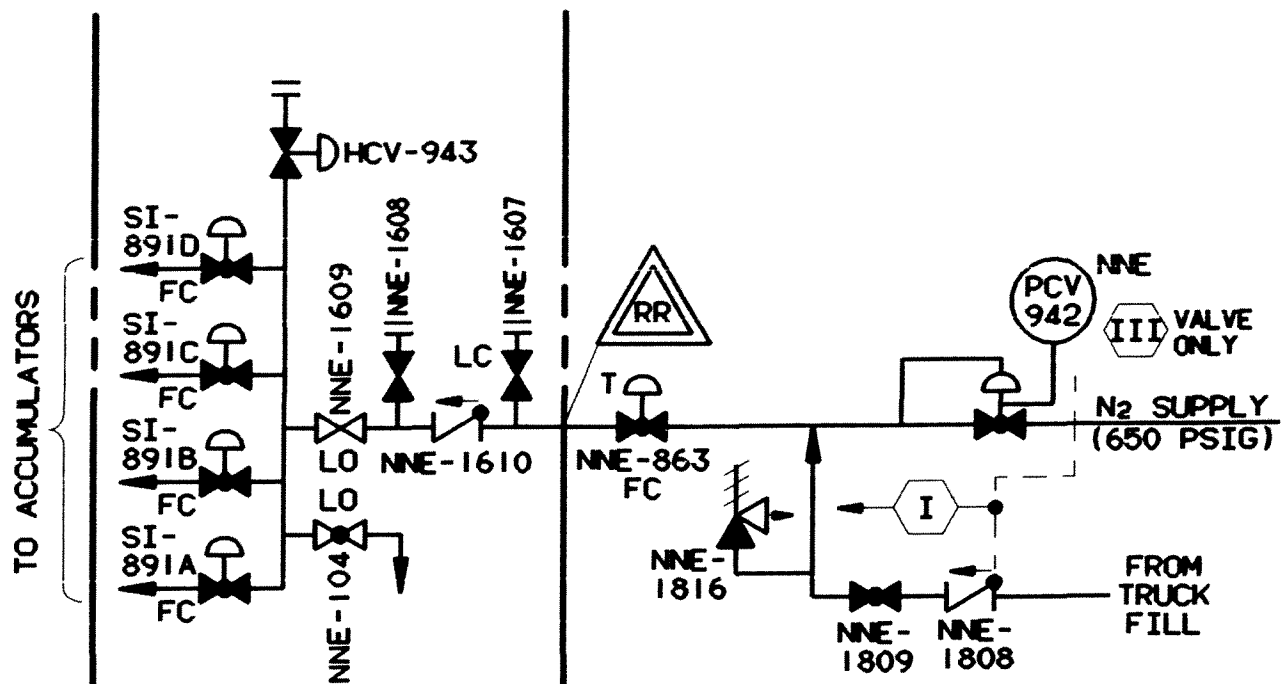
INDIAN POINT 3 FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LINE 15 & 51

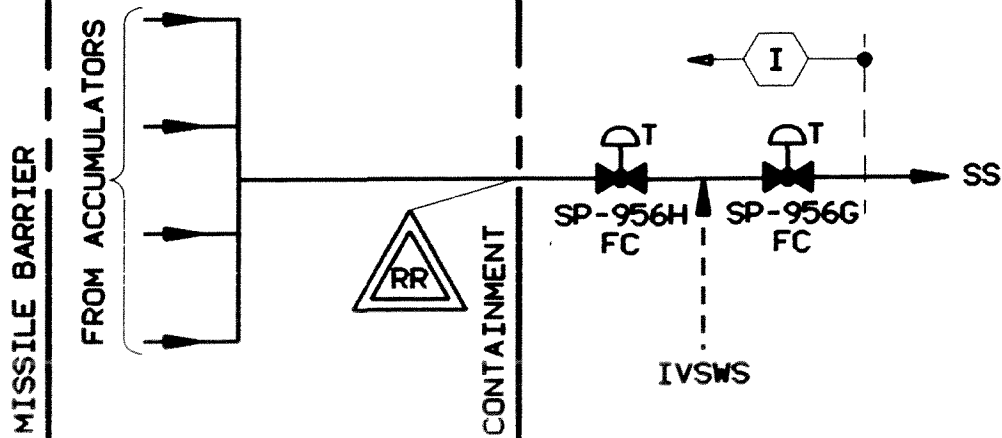
REV. 4 JUN, 1999 FIGURE NO. 5.2-6



LINE NO.68 ACCUMULATOR N2 SUPPLY



LINE NO.69 ACCUMULATOR SAMPLE



NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3 FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LINES 68 AND 69

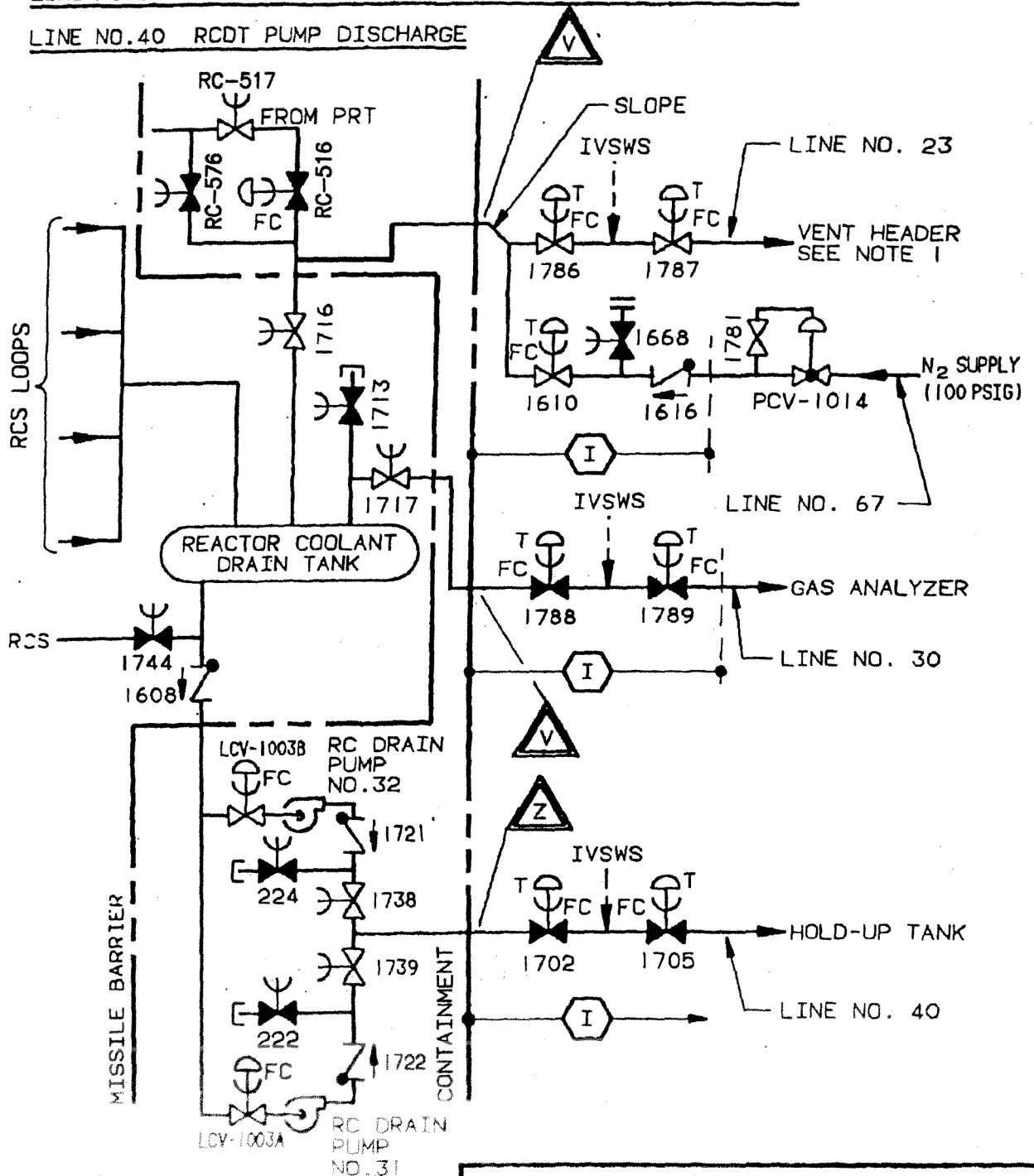
REV. 4 JUN, 1999 FIGURE NO. 5.2-8



LINE NO.23 PRIMARY SYSTEM VENT HEADER AND N<sub>2</sub> SUPPLY LINE

LINE NO.30 REACTOR COOLANT DRAIN TANK TO GAS ANALYZER

LINE NO.40 RCDT PUMP DISCHARGE



NOTES:

1. ENTIRE VENT HEADER IS SEISMIC CLASS I DESIGN
2. VA. NOS. ARE PRECEDED BY WD UNLESS OTHERWISE NOTED
3. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

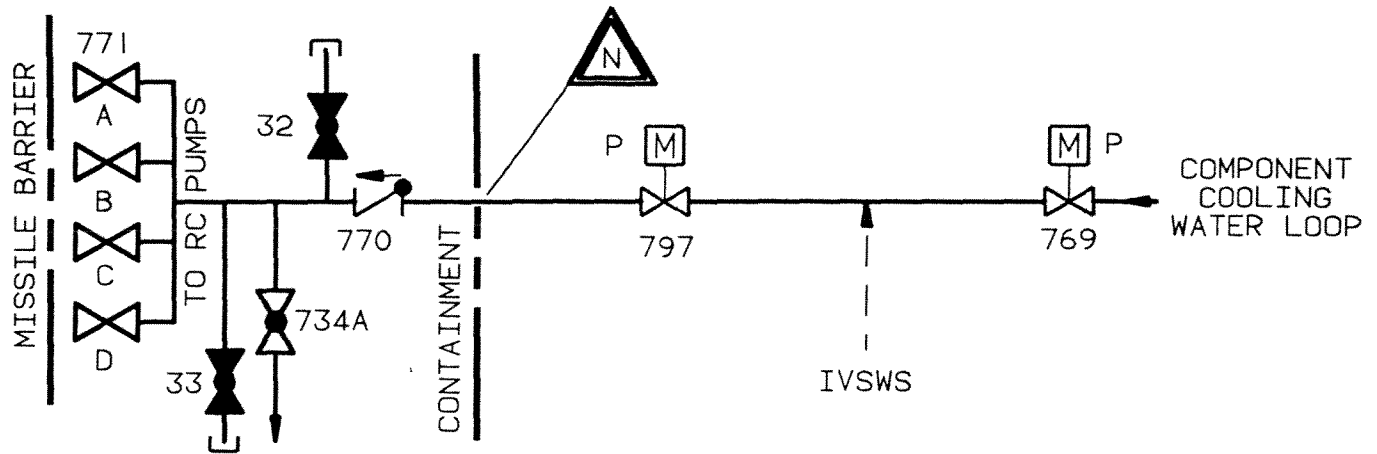
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 23, 30 & 40

REV. 4

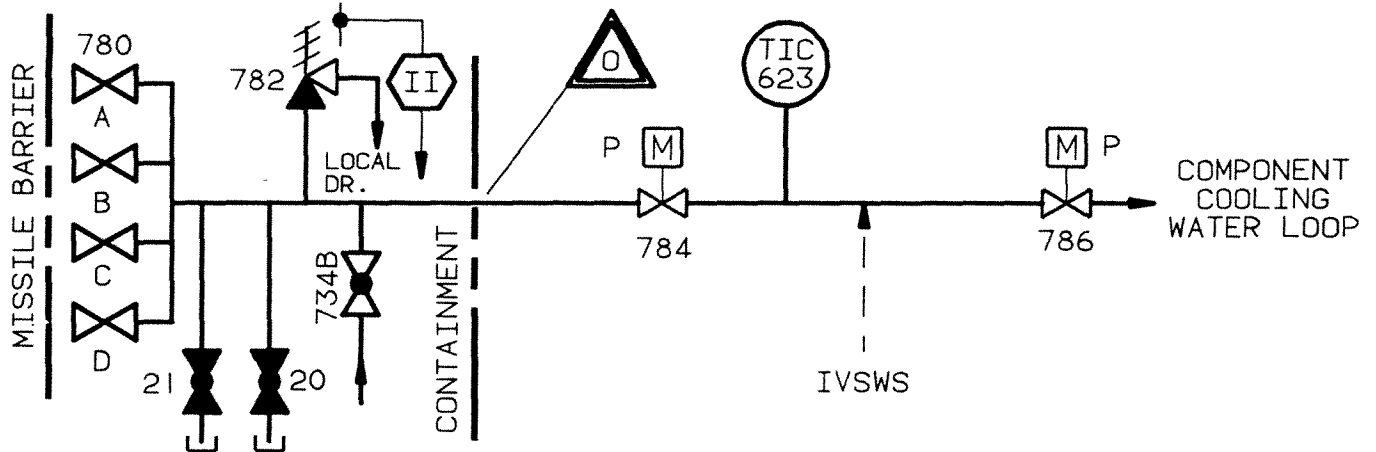
OCT. 2003

FIG. 5.2-9

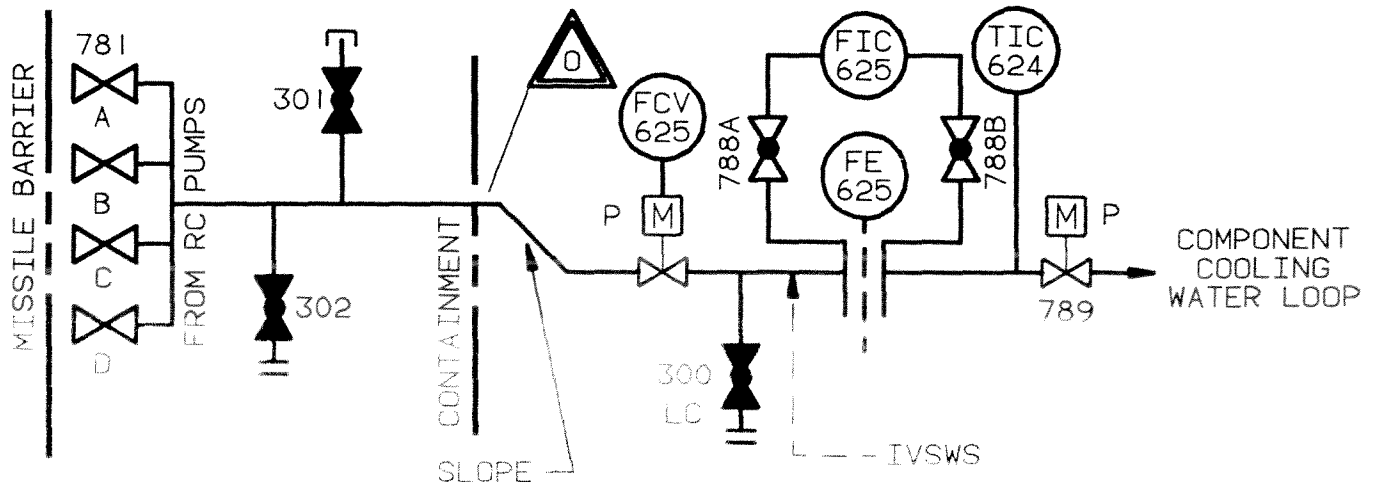
LINE NO. 13 REACTOR COOLANT PUMP COOLING WATER IN\*



LINE NO. 14 REACTOR COOLANT PUMP WATER OUT (6")



LINE NO. 21 REACTOR COOLANT PUMP COOLING WATER OUT (3")



NOTES

1. ENTIRE COMPONENT COOLING SYSTEM IS SEISMIC CLASS I DESIGN, EXCEPT AS NOTED.
2. ALL VALVE NOS. ARE PRECEDED BY "AC"
3. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

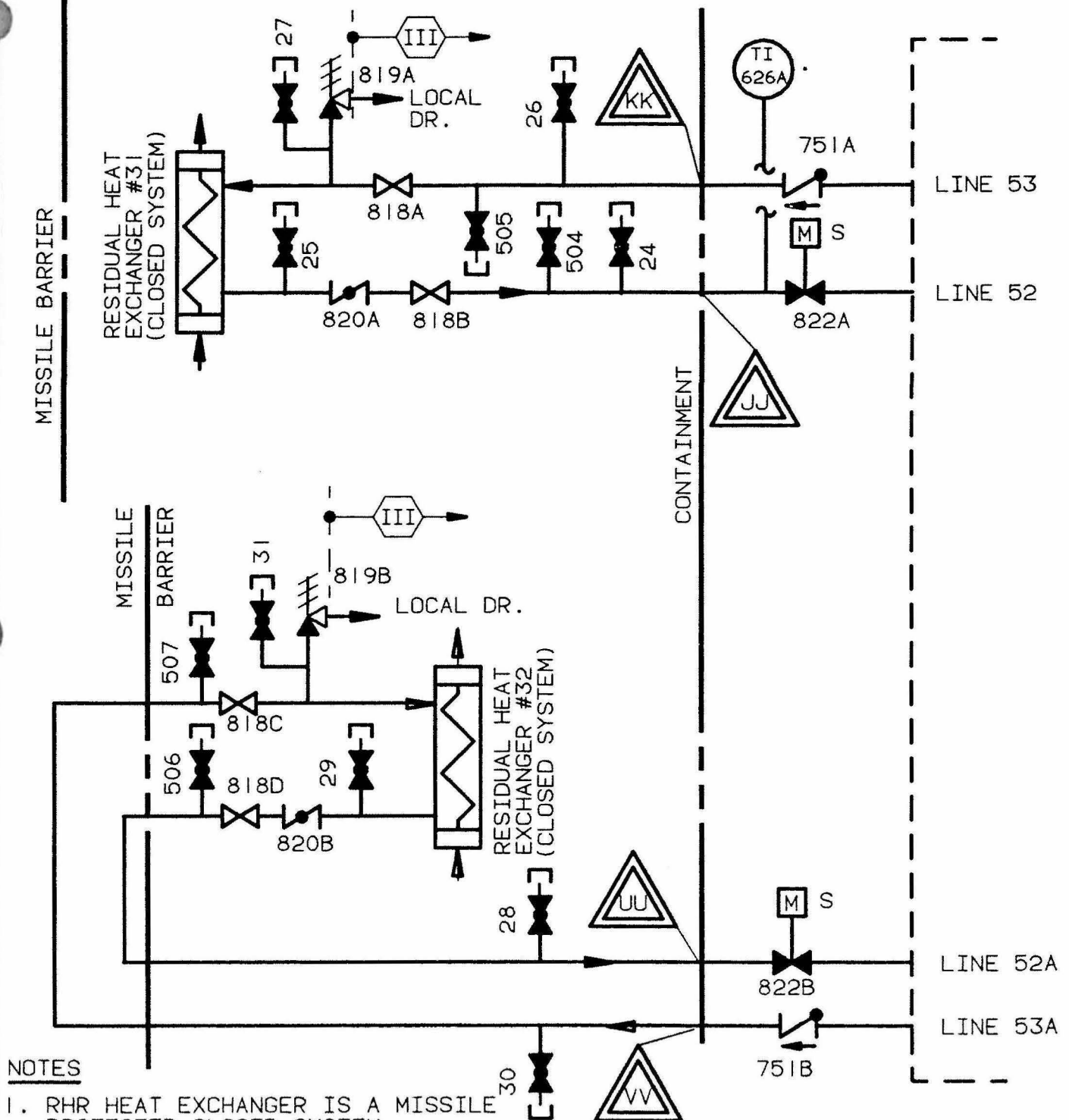
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 13, 14 & 21

REV. 3

JUN. 1999

FIG. 5.2-10

RESIDUAL HEAT EXCHANGER COOLING WATER IN  
RESIDUAL HEAT EXCHANGER COOLING WATER RETURN



**NOTES**

1. RHR HEAT EXCHANGER IS A MISSILE PROTECTED CLOSED SYSTEM. CCW PIPING TO AND FROM RHR HEAT EXCH. 32 IS A CLOSED SYS. INSIDE THE SHIELD WALL ON THE BASIS OF LEAK BEFORE BREAK CRITERIA.
2. ENTIRE SYS. SHOWN IS SEISMIC CL 1 DESIGN EXCEPT WHERE NOTED.
3. ALL VA NOS. ARE PRECEDED BY "AC"
4. FOR LEGEND SEE FIG. 5.2-29

INDIAN POINT 3

FSAR UPDATE

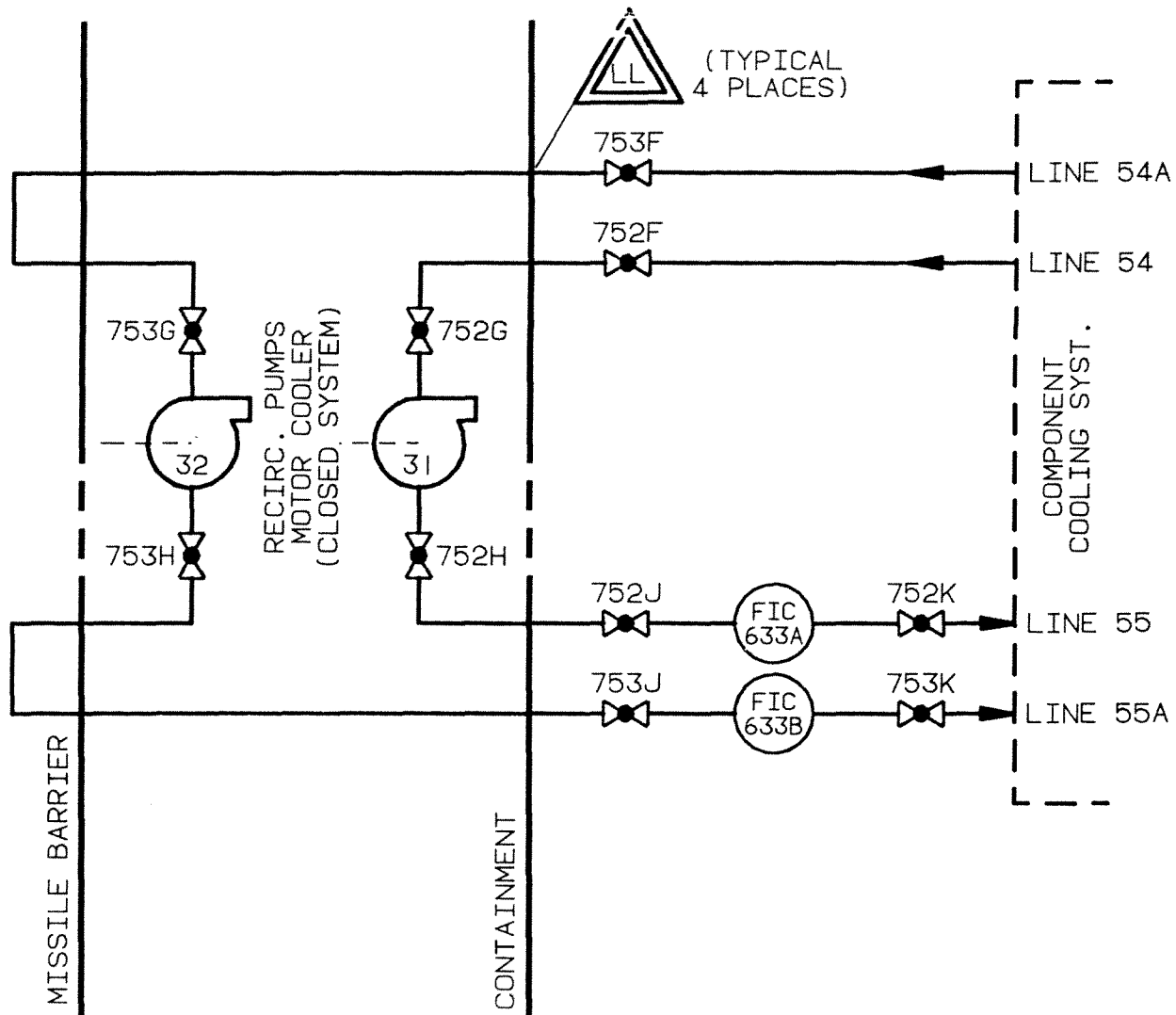
CONTAINMENT ISOLATION SYSTEM  
 SCHEMATICS LINES 52, 52A, 53, & 53A

REV. 3

JUN. 1999

FIG. 5.2-11

LINE NO.54 & 54A RECIRCULATION PUMP COOLING WATER SUPPLY  
LINE NO.55 & 55A RECIRCULATION PUMP COOLING WATER RETURN



NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. ALL VALVE NOS. ARE PRECEDED BY "AC"
3. ENTIRE COMPONENT COOLING SYSTEM IS SEISMIC CLASS I DESIGN.
4. RECIRCULATION PUMP MOTOR COOLERS ARE A MISSILE PROTECTED CLOSED SYSTEM. CCW PIPING TO AND FROM RECIRCULATION PUMP 32 MOTOR COOLER IS A CLOSED SYSTEM INSIDE THE SHIELD WALL ON THE BASIS OF LEAK BEFORE BREAK CRITERIA.

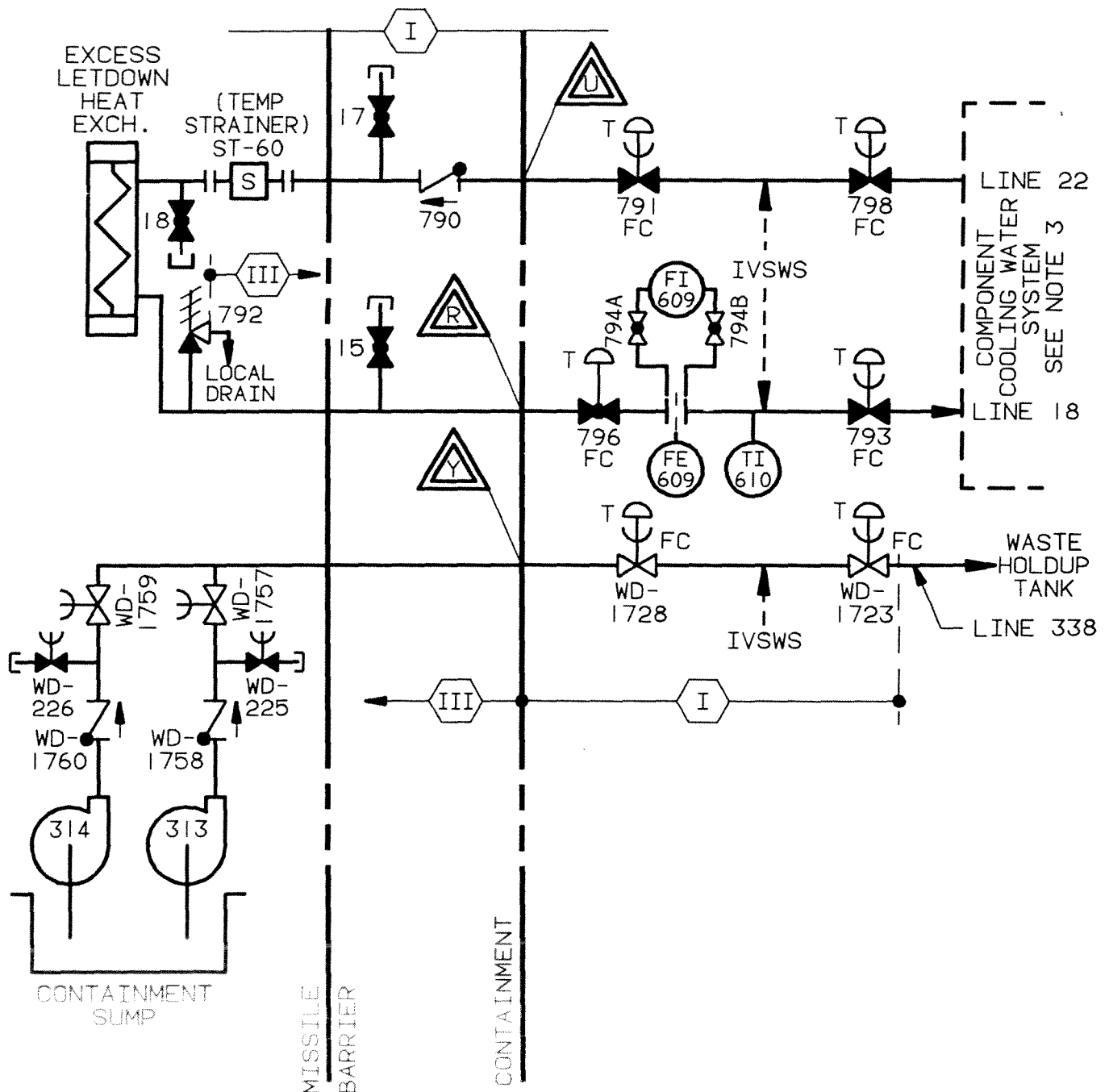
**INDIAN POINT 3 FSAR UPDATE**  
**CONTAINMENT ISOLATION SYSTEM**  
**SCHEMATICS-LINES 54, 54A,**  
**55 AND 55A**

REV. 3 JUN. 1999 FIGURE NO. 5.2-12

LINE NO.22 EXCESS LETDOWN EXCHANGER COOLING WATER IN

LINE NO.18 EXCESS LETDOWN EXCHANGER COOLING WATER OUT

LINE NO.338 CONTAINMENT SUMP PUMP DISCHARGE



NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. ALL VALVE NOS. ARE PRECEDED BY "AC" EXCEPT WHERE NOTED.
3. ENTIRE COMPONENT COOLING SYSTEM IS SEISMIC CLASS I DESIGN EXCEPT AS NOTED.

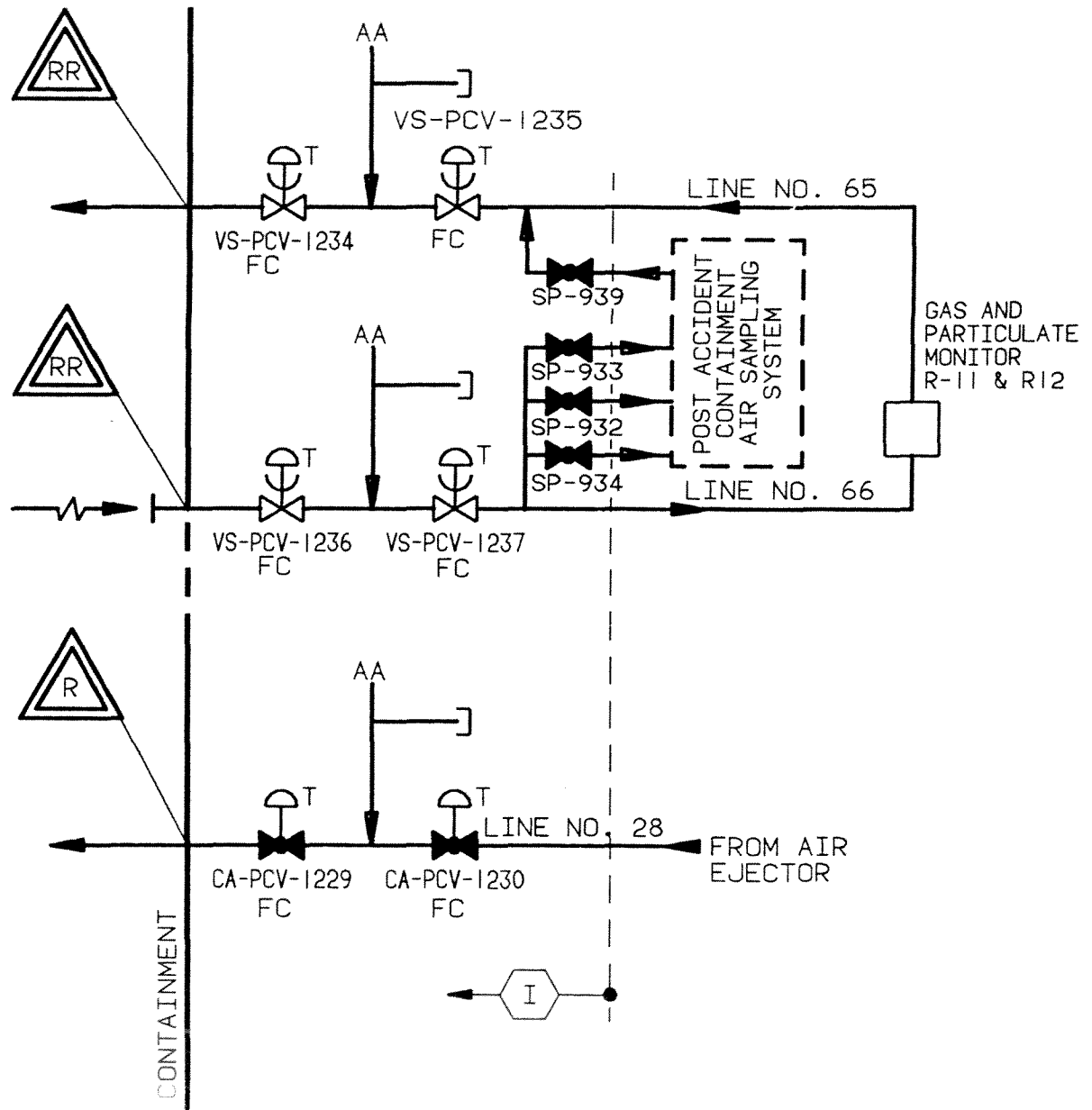
INDIAN POINT 3 FSAR UPDATE  
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 18, 22  
AND 338

REV. 3 JUN, 1999

LINE NO.65 CONTAINMENT AIR SAMPLE RETURN

LINE NO.66 CONTAINMENT AIR SAMPLE SOURCE

LINE NO.28 AIR EJECTOR DISCHARGE TO CONTAINMENT



NOTE

1. FOR LEGEND SEE FIGURE 5.2-29

**INDIAN POINT 3 FSAR UPDATE**

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LINES 28,65 AND 66

REV. 2 JUN, 1999 | FIGURE NO. 5.2-14



- |   |                   |
|---|-------------------|
| INDIAN POINT 3 FSAR UPDATE  |                   |
| CONTAINMENT ISOLATION SYSTEM<br>SCHEMATICS-LINES 1 THRU 8,<br>45 THRU 48 & 364 THRU 367 |                   |
| REV.3 JUN. 1999   | FIGURE NO. 5.2-15 |

# ATTACHMENT TO FIGURE 5.2-15

## MAIN STEAM LINE INSTRUMENTATION

	Penetration	Line No	FE'T'	FT'A'	FT'B'	FT'C'	PT'D'	PT'E'	PT'F'	PC	PCV'G'
Stm Gen #31	B	2	419	419A	419B	419L	419A	419B	419C	419	1134
Stm Gen #32	A	1	429	429A	429B	429L	429A	429B	429C	429	1135
Stm Gen #33	C	3	439	439A	439B	439L	439A	439B	439C	439	1136
Stm Gen #34	D	4	449	449A	449B	449L	449A	449B	449C	449	1137

## MAIN STEAM LINE INSTRUMENT ISOLATION, VENT & DRAIN VALVES. (VALVE PREFIXED WITH MS)

	Penetration	Line No	'IVA'	'IVB'	'IVC'	'IVD'	'IVE'	'IVF'	'IVG'	'IVH'	'IVJ'	'IVK'	'IVL'	'IVM'	'IVN'
Stm Gen #31	B	2	43-1	43-2	43-3	43-4	74-1	123-1	78-1	22-1	22-2	3-1	56-1	55-1	57-1
Stm Gen #32	A	1	43-5	43-6	43-7	43-8	74-2	123-2	78-2	22-3	22-4	3-2	56-2	55-2	57-2
Stm Gen #33	C	3	43-9	43-10	43-11	43-12	74-3	123-3	78-3	22-5	22-6	3-3	56-3	55-3	57-3
Stm Gen #34	D	4	43-13	43-14	43-15	43-16	74-4	123-4	78-4	22-7	22-8	3-4	56-4	55-4	57-4

## MAIN STEAM LINE SAFETY, NON-RETURN & ISOLATION VALVES. (VALVE PREFIXED WITH MS)

	Penetration	Line No	'VA'	'VB'	'VC'	'VD'	'VE'	'VF'	'VG'	'VH'
Stm Gen #31	B	2	45-1	46-1	47-1	48-1	49-1	1-31	2-31	
Stm Gen #32	A	1	45-2	46-2	47-2	48-2	49-2	1-32	2-32	41
Stm Gen #33	C	3	45-3	46-3	47-3	48-3	49-3	1-33	2-33	42
Stm Gen #34	D	4	45-4	46-4	47-4	48-4	49-4	1-34	2-34	

## FEEDWATER LINE INSTRUMENTATION & VALVES. (VALVE PREFIXED WITH BFD)

	Penetration	Line No	TE	PT'H'	PT'J'	'IVP'	'IVQ'	'VJ'	'VK'
Stm Gen #31	E	6	418	1181	1163	60-1	N/A	7-1	6-1
Stm Gen #32	F	5	428	1182	1164	60-2	N/A	7-2	6-2
Stm Gen #33	H	7	438	1183	1165	60-3	N/A	7-3	6-3
Stm Gen #34	G	8	448	1184	1166	60-4	N/A	7-4	6-4

## INDIAN POINT 3 FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
TABULATIONS-LINES 1 THRU 8,  
45 THRU 48 & 364 THRU 367

REV.0 JUN. 1999 FIGURE NO. 5.2-15A



# ATTACHMENT TO FIGURE 5.2-15

## AUXILIARY FEEDWATER LINE INSTRUMENTATION & VALVES. (VALVE PREFIXED WITH BFD)

	Penetration	Line No	FT'M'	FE'N'	'IVR'	'IVS'	'VL'	'VM'	'VN'	FCV'K'	'VP'	'VQ'	FCV'L'
Stm Gen #31	N/A	1003	1200	1200	64-17	64-16	68	38	37	406A			
Stm Gen #32	N/A	1004	1201	1201	64-19	64-18	67	36	35	406B			
Stm Gen #33	N/A	1002	1202	1202	64-21	64-20	69	41	40	406C			
Stm Gen #34	N/A	1001	1203	1203	64-23	64-22	70	43	42	406D			
Stm Gen #31	N/A	1005									48-1	47-4	405A
Stm Gen #32	N/A	1006									48-3	47-3	405B
Stm Gen #33	N/A	1008									48-5	47-1	405C
Stm Gen #34	N/A	1007									48-7	47-2	405D

## STEAM GENERATOR BLOWDOWN ISOLATION VALVES. (VALVE PREFIXED WITH BD)

	Penetration *	Line No	'VR'	'VS'	'VT'	PCV'P'	PCV'Q'
Stm Gen #31	BB	46	1-1	1-2	2-1	1214	1214A
Stm Gen #32	AA	45	1-3	1-4	2-2	1215	1215A
Stm Gen #33	CC	47	1-5	1-6	2-3	1216	1216A
Stm Gen #34	DD	48	1-7	1-8	2-4	1217	1217A

## STEAM GENERATOR BLOWDOWN SAMPLE ISOLATION VALVES. (VALVE PREFIXED WITH BD)

	Penetration	Line No	'VU'	PCV'R'	PCV'S'
Stm Gen #31	W	364	3-1	1223	1223A
Stm Gen #32	W	365	3-2	1224	1224A
Stm Gen #33	W	366	3-3	1225	1225A
Stm Gen #34	W	367	3-4	1226	1226A

**INDIAN POINT 3 FSAR UPDATE**

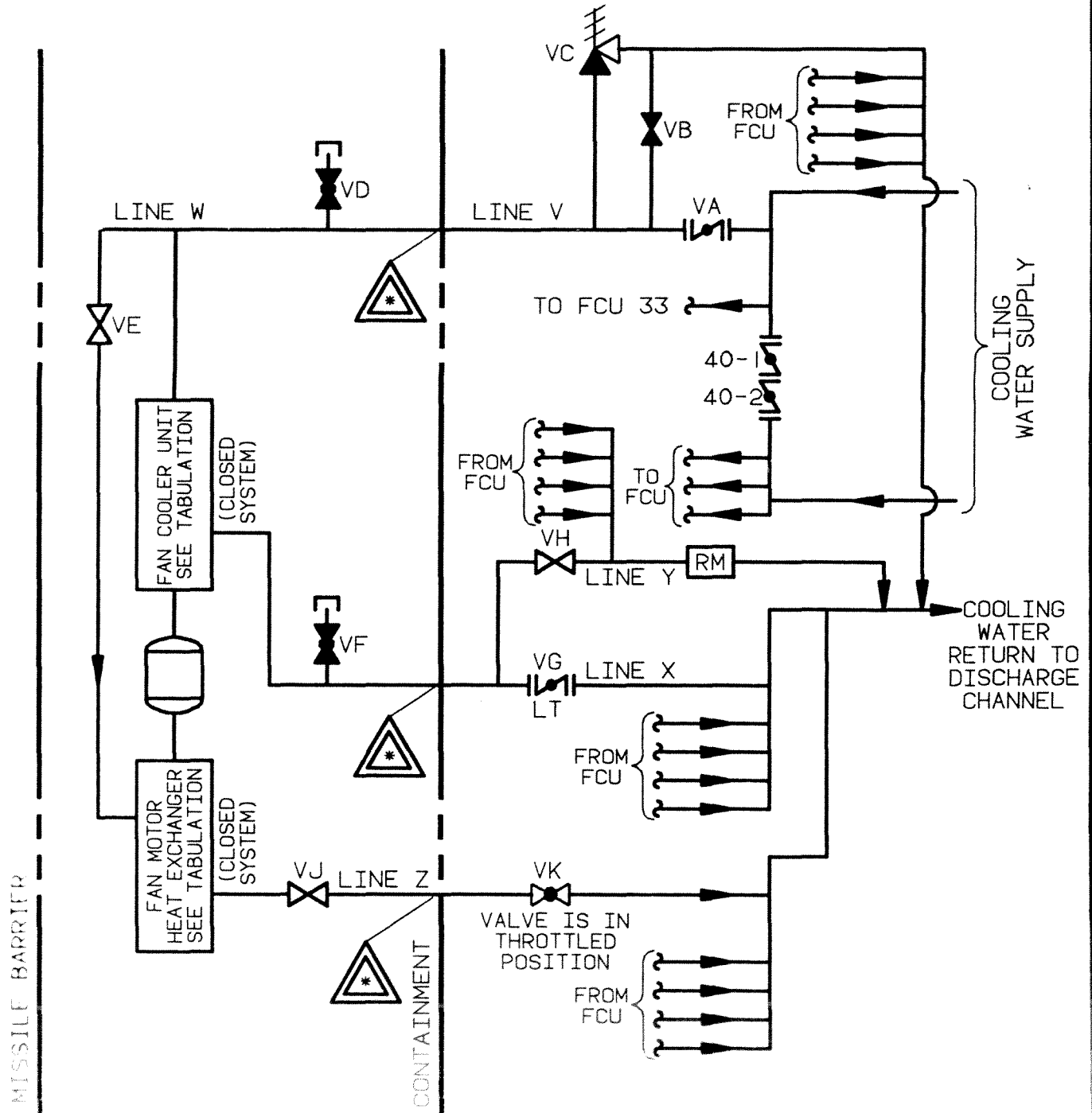
CONTAINMENT ISOLATION SYSTEM  
TABULATIONS-LINES 1 THRU 8,  
45 THRU 48 & 364 THRU 367

REV.0 JUN. 1999 | FIGURE NO. 5.2-15B

LINE V 10" VENTILATION SYSTEM COOLING WATER IN

LINE X 10" VENTILATION SYSTEM COOLING WATER OUT

LINE Z 2" VENTILATION SYSTEM MOTOR COOLING WATER OUT



#### NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. **RM** = RADIATION MONITOR
3. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN.
4. FOR LINE NO., VALVE NO. ETC. CORRESPONDING TO LETTERS SHOWN SEE TABULATION ON FIG 5.2-16A

**INDIAN POINT 3 FSAR UPDATE**

**CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-FAN COOLER UNITS**

REV. 3 JUN. 1999 FIGURE NO. 5.2-16

## ATTACHMENT TO FIGURE 5.2-16

*Valve numbers are prefixed by SWN*

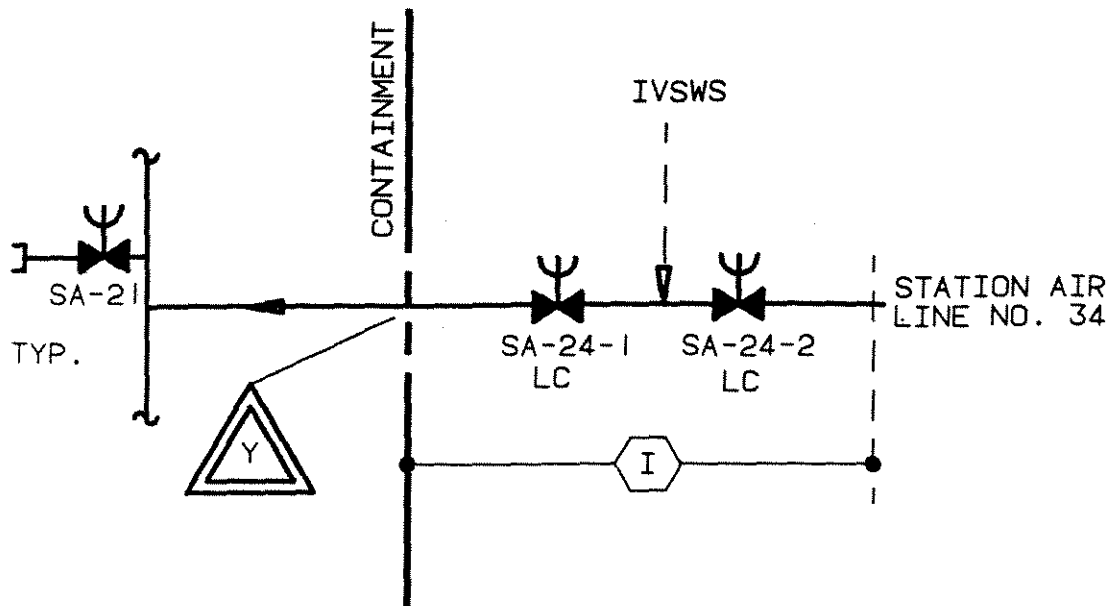
		Line No.	Penetration*	'VA'	'VB'	'VC'	'VD'	'VE'	'VF'	'VG'	'VH'	'VJ'	'VK'
Fan Cooler Unit No.31	V	11a	La	41-1	43-1	42-1	78-1						
	W	670						520					
	X	12b	Mb						78-2	44-1			
	Y	12									51-1		
	Z	497	SS									521	71-1
Fan Cooler Unit No.32	V	11d	Ld	41-2	43-2	42-2	78-3						
	W	673						522					
	X	12d	Md						78-4	44-2			
	Y	12									51-2		
	Z	498	SS									523	71-2
Fan Cooler Unit No.33	V	11b	Lb	41-3	43-3	42-3	78-5						
	W	671						524					
	X	12a	Ma						78-6	44-3			
	Y	12									51-3		
	Z	496	SS									525	71-3
Fan Cooler Unit No.34	V	11c	Lc	41-4	43-4	42-4	78-7						
	W	672						526					
	X	12c	Mc						78-8	44-4			
	Y	12									51-4		
	Z	495	SS									527	71-4
Fan Cooler Unit No.35	V	11e	Le	41-5	43-5	42-5	78-9						
	W	674						528					
	X	12e	Me						78-10	44-5			
	Y	12									51-5		
	Z	499	SS									529	71-5

**INDIAN POINT 3 FSAR UPDATE**

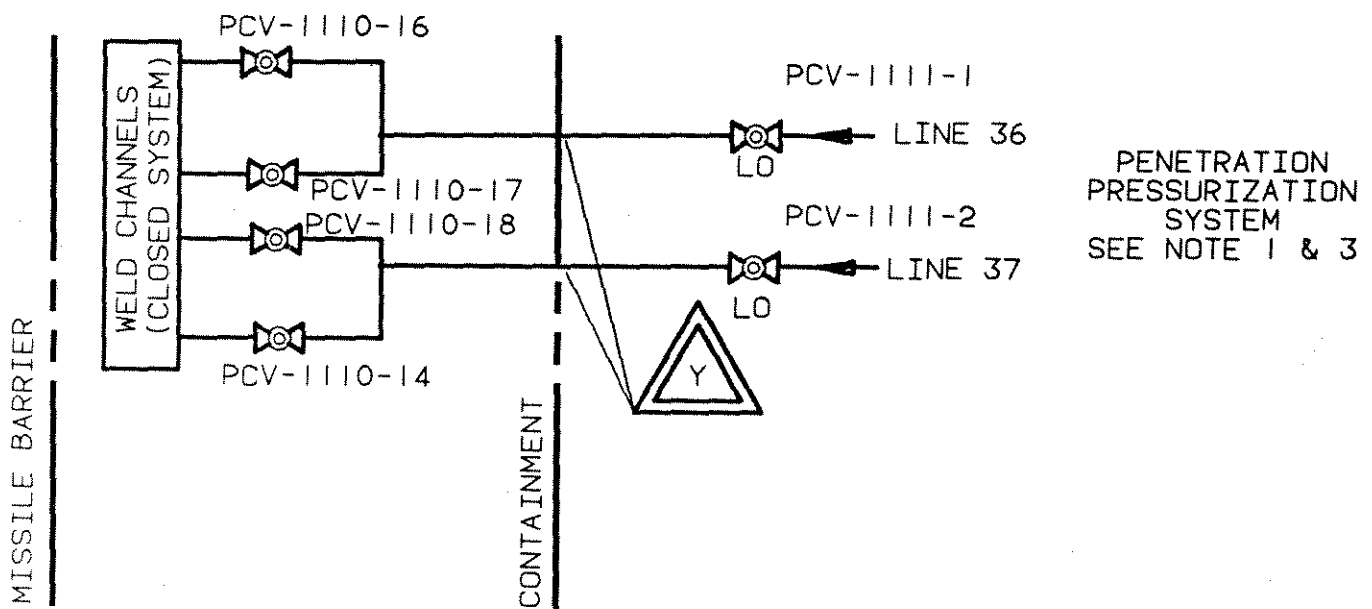
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-FAN COOLER UNITS  
TABULATION

REV.0 JUN. 1999 | FIGURE NO. 5.2-16A

# LINE NO. 34 STATION AIR



## LINE NO. 36 & 37 WELD CHANNEL PRESSURIZATION AIR SUPPLY



### NOTE

1. ENTIRE SYSTEM IN PRESSURIZATION SYSTEM IS SEISMIC CLASS 1 DESIGN
2. FOR LEGEND SEE FIGURE 5.2-29.
3. VALVE NUMBERS ARE PRECEDED BY PS UNLESS OTHERWISE NOTED.

**INDIAN POINT 3 FSAR UPDATE**

**CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS LINES 34, 36 & 37**

REV. 5 JUN, 2000 | FIGURE NO. 5.2-17

LINE NO.45 | NOT ASSIGNED  
LINE NO.46 | NOT ASSIGNED  
LINE NO.47 | NOT ASSIGNED

2

2

INDIAN POINT 3 FSAR UPDATE

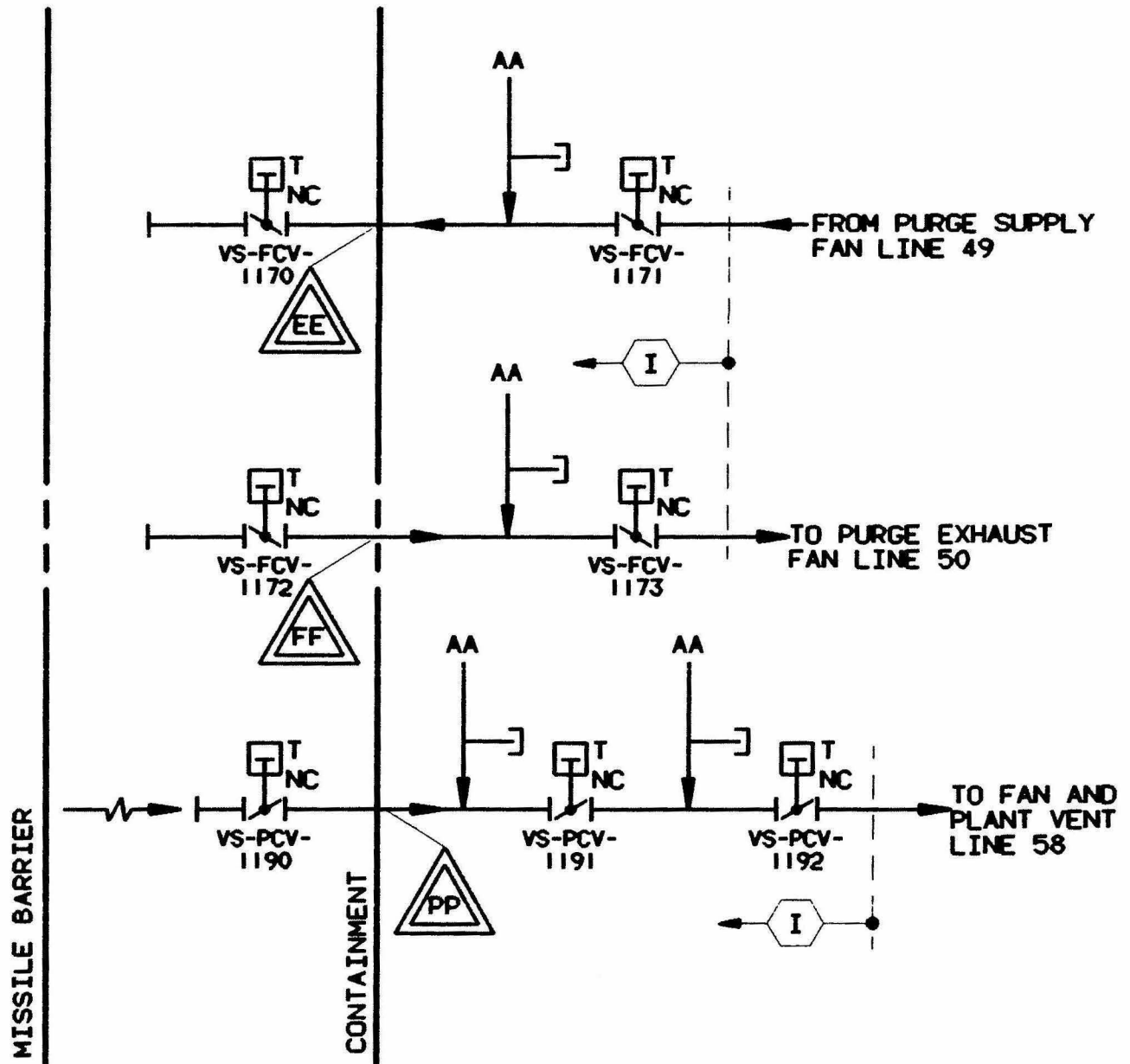
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 45, 46 AND 47

REV. 2, JULY, 1991 | FIGURE NO. 5.2-18

LINE NO.49 PURGE SUPPLY DUCT

LINE NO.50 PURGE EXHAUST DUCT

LINE NO.58 CONTAINMENT PRESSURE RELIEF



NOTES:

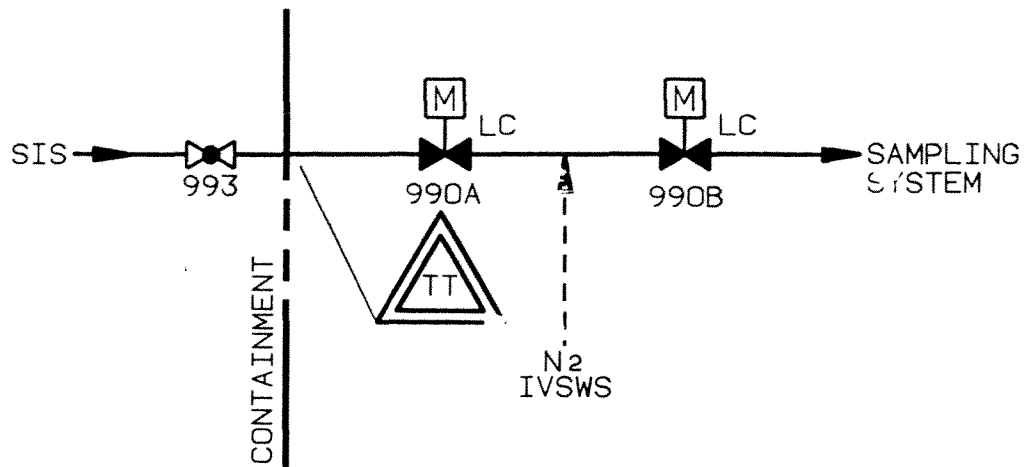
1. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3 FSAR UPDATE

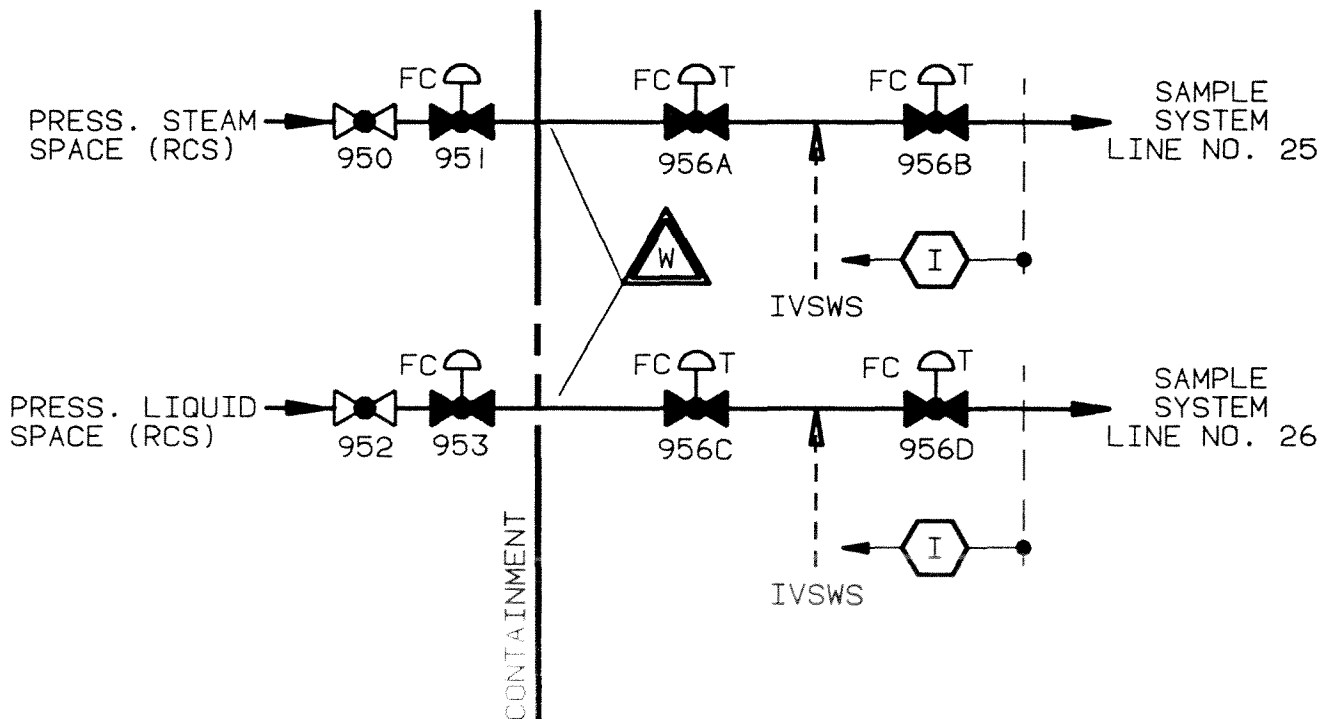
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LINES 49,50 & 58

REV. 2 JUN, 1999 | FIGURE NO. 5.2-19

RECIRCULATION PUMP DISCHARGE SAMPLE LINE NO. 711  
(ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I)



PRESSURIZER STEAM SPACE SAMPLE LINE NO. 25  
PRESSURIZER LIQUID SPACE SAMPLE LINE NO. 26



NOTES

1. VALVE NOS. ARE PRECEDED BY "SP"
2. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

FSAR UPDATE

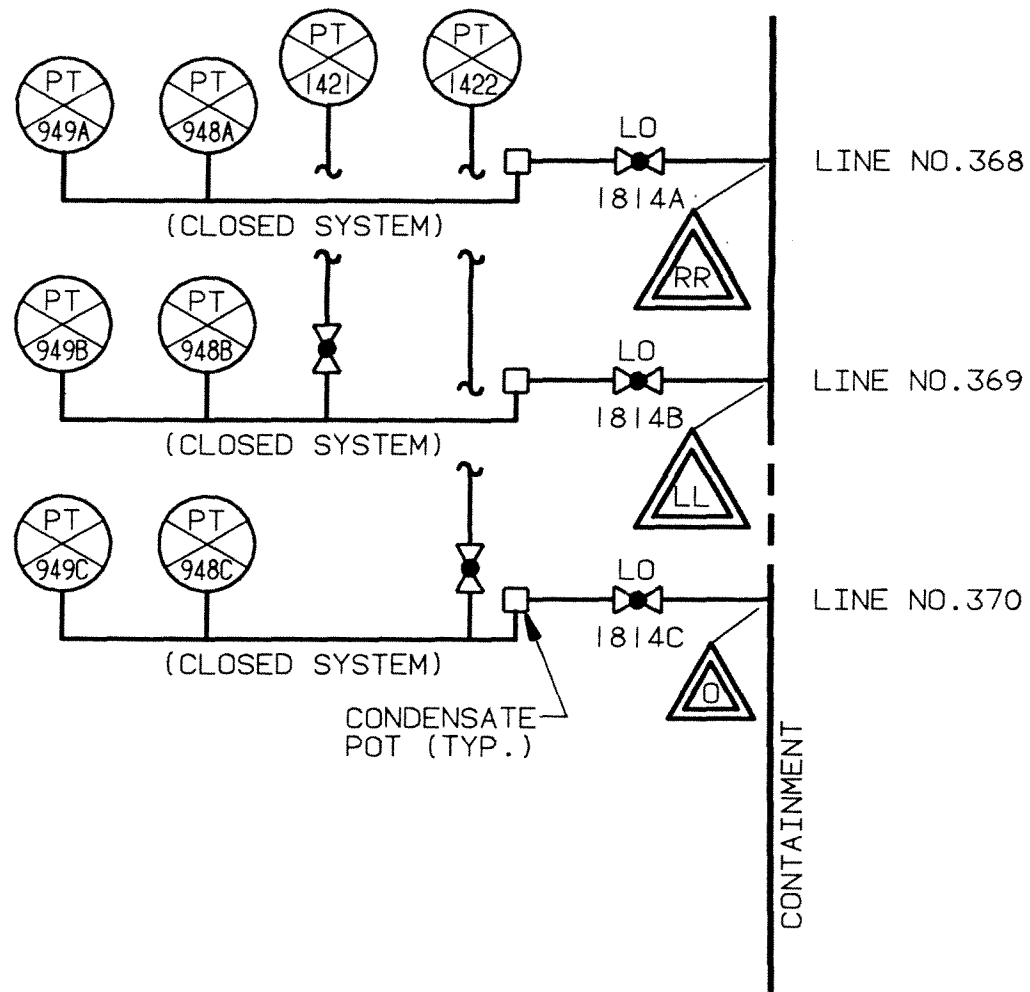
CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 711, 25 & 26

REV. 3

JUN. 1999

FIG. 5.2-20

CONTAINMENT PRESSURE INSTRUMENTATION  
LINE NUMBERS 368, 369 & 370



NOTES:

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN.
2. FOR LEGEND, SEE FIGURE 5.2-29
3. ALL VALVE NOS. ARE PRECEDED BY "SI"

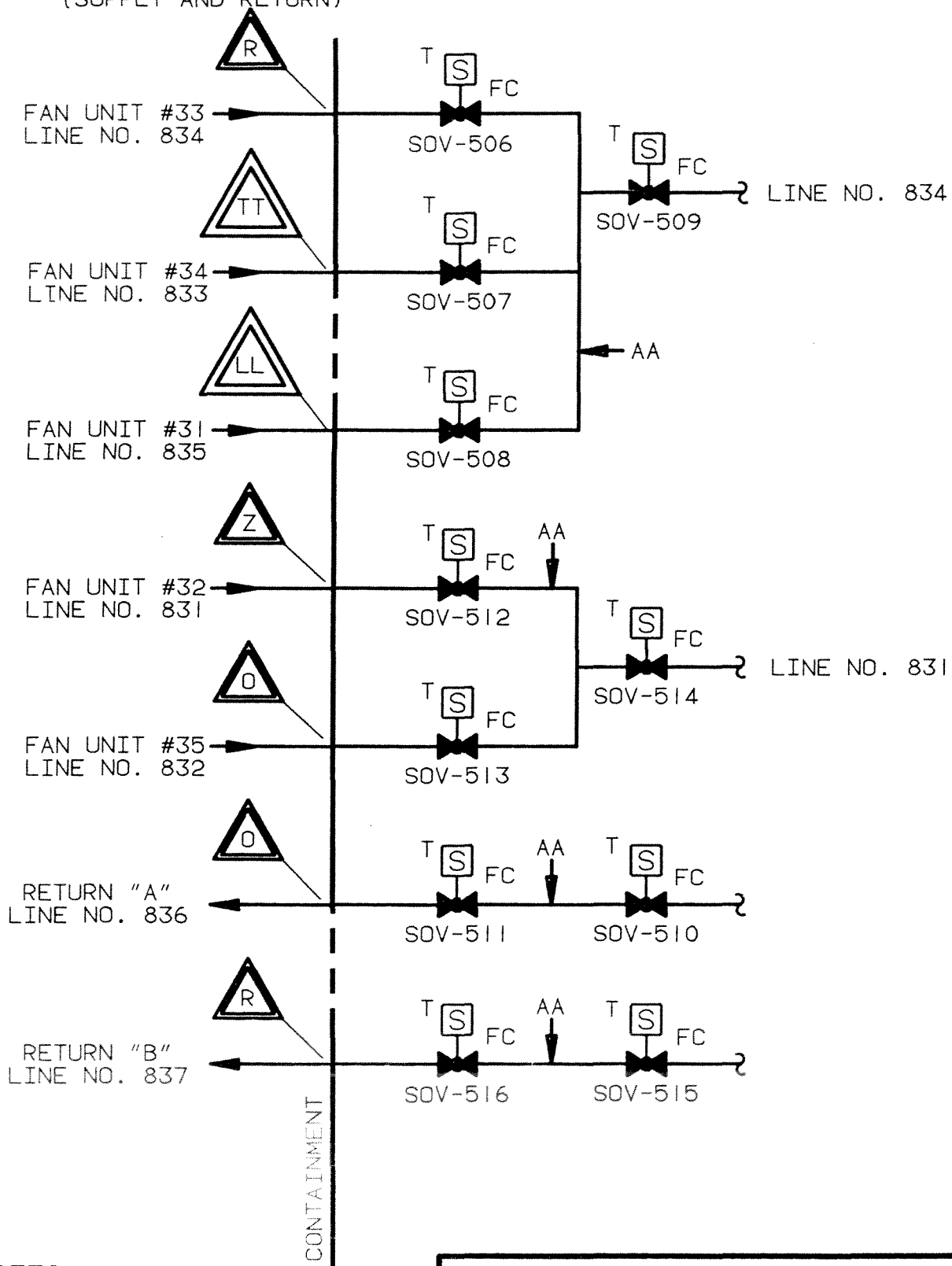
**INDIAN POINT 3 FSAR UPDATE**

CONTAINMENT ISOLATION SYSTEM  
 SCHEMATICS-LINES 368, 369 & 370

REV. 1 JUN, 1999 FIGURE NO. 5.2-21



POST ACCIDENT CONTAINMENT SAMPLING LINE NOS. 831 THRU 837  
(SUPPLY AND RETURN)



NOTES:

1. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN
2. VALVE NOS. ARE PRECEDED BY "SP"
3. FOR LEGEND, SEE FIGURE 5.2-29

INDIAN POINT 3

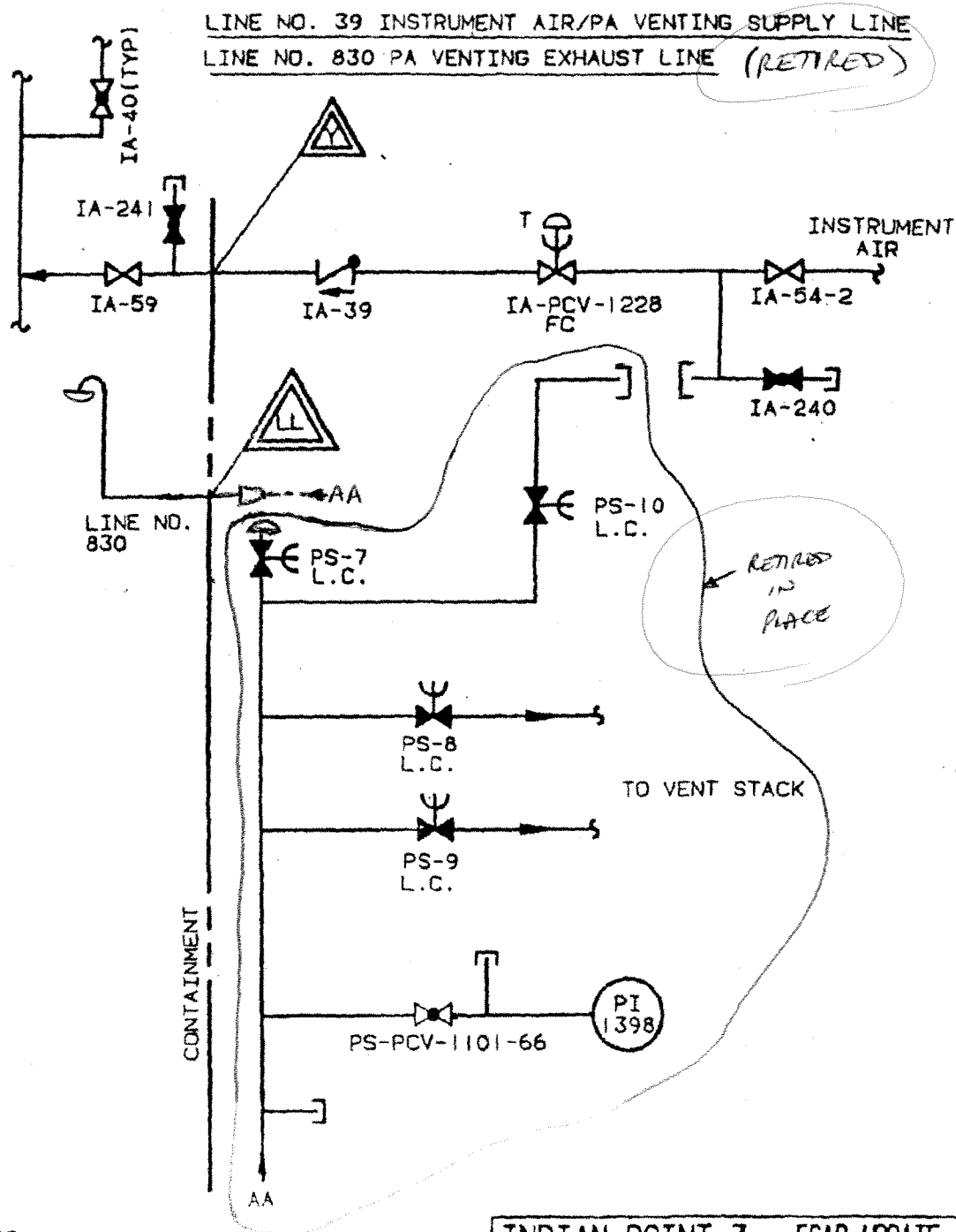
FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS - LINES 831 THRU 837

REV. 3

JUN. 1999

FIG. 5.2-22



**NOTES:**

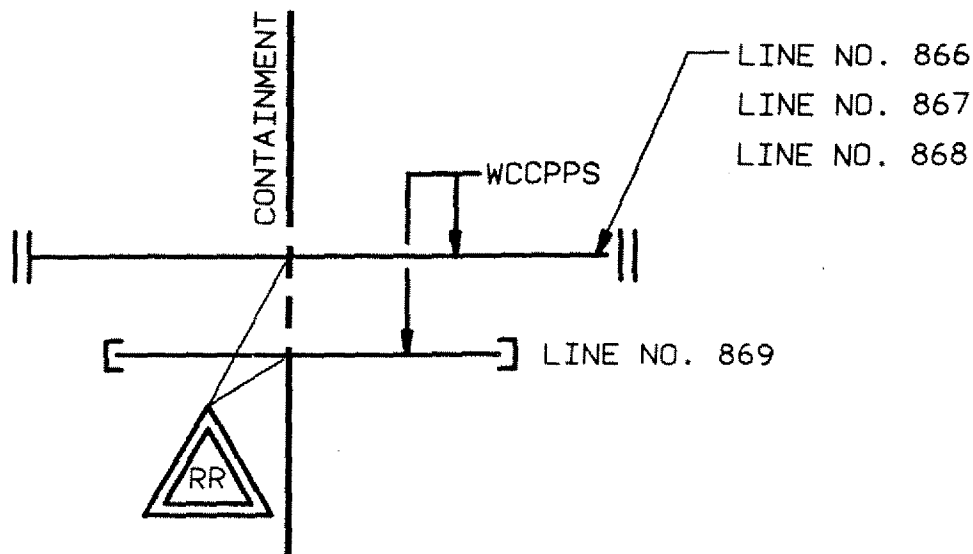
1. FOR LEGEND, SEE FIGURE 5.2-29
2. ENTIRE SYSTEM IS SEISMIC CLASS 1 DESIGN.

INDIAN POINT 3 FSAR UPDATE

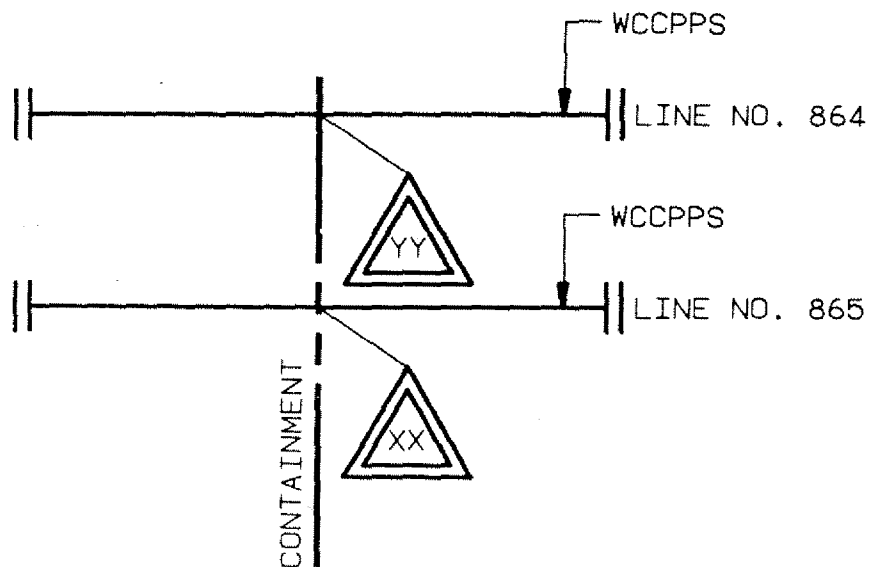
CONTAINMENT ISOLATION SYSTEM  
 SCHEMATICS LINES 39 AND 830

REV. 4 OCT. 2011 FIGURE NO. 5.2-25

LINE NO. 866 THRU 869 CONTAINMENT LEAK TEST INSTRUMENT SENSOR LINE



LINE NO. 864 & 865 CONTAINMENT TEST AIR LINE



NOTES:

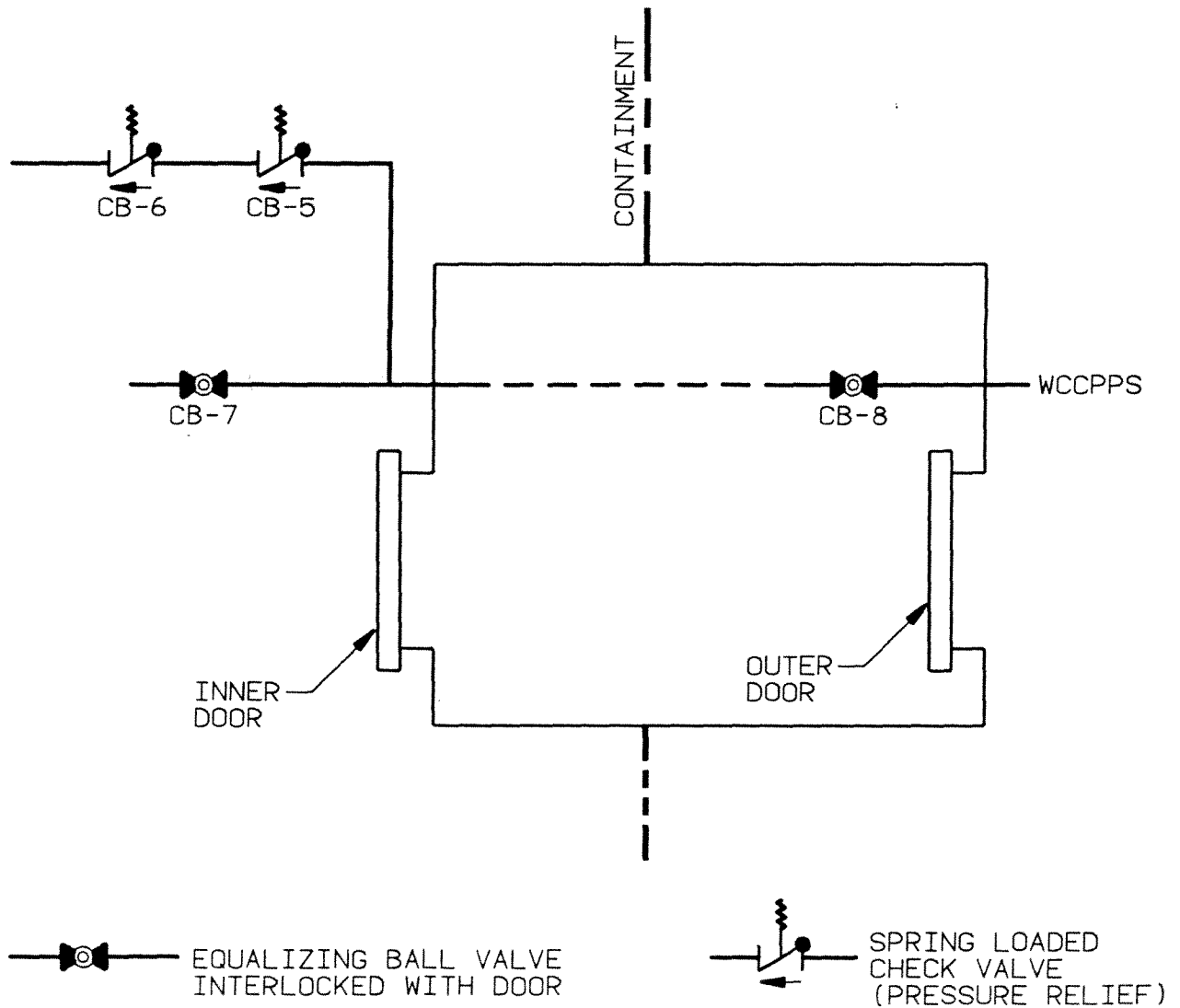
1. FOR LEGEND, SEE FIGURE 5.2-29
2. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN.
3. TFP (TEMPORARY FIBER OPTIC PENETRATION FLANGE) MAY BE INSTALLED IN COLD SHUT DOWN/ REFUELING TO SATISFY CONTAINMENT ISOLATION FUNCTION FOR REFUELING OPERATIONS AT EITHER OR BOTH XX OR YY

**INDIAN POINT 3 FSAR UPDATE**

**CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS LINES 864 THRU 869**

REV. 2 JUN, 2000 | FIGURE NO. 5.2-26

# EQUIPMENT HATCH AIR LOCK

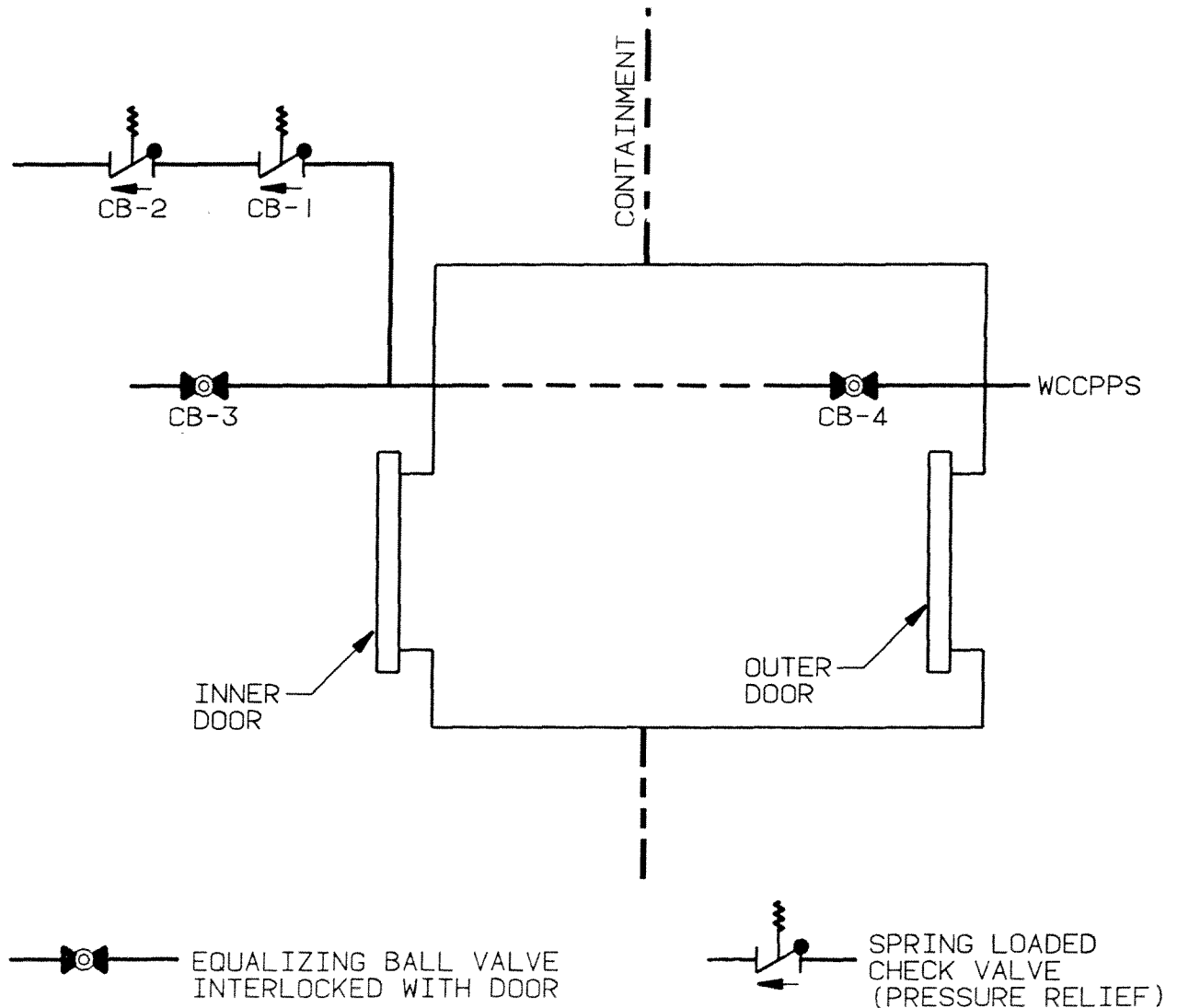


## NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN.

INDIAN POINT 3 FSAR UPDATE	
CONTAINMENT ISOLATION SYSTEM SCHEMATICS	
EQUIPMENT HATCH AIR LOCK	
REV.2 JUN. 1999	FIGURE NO. 5.2-27

# PERSONNEL AIR LOCK

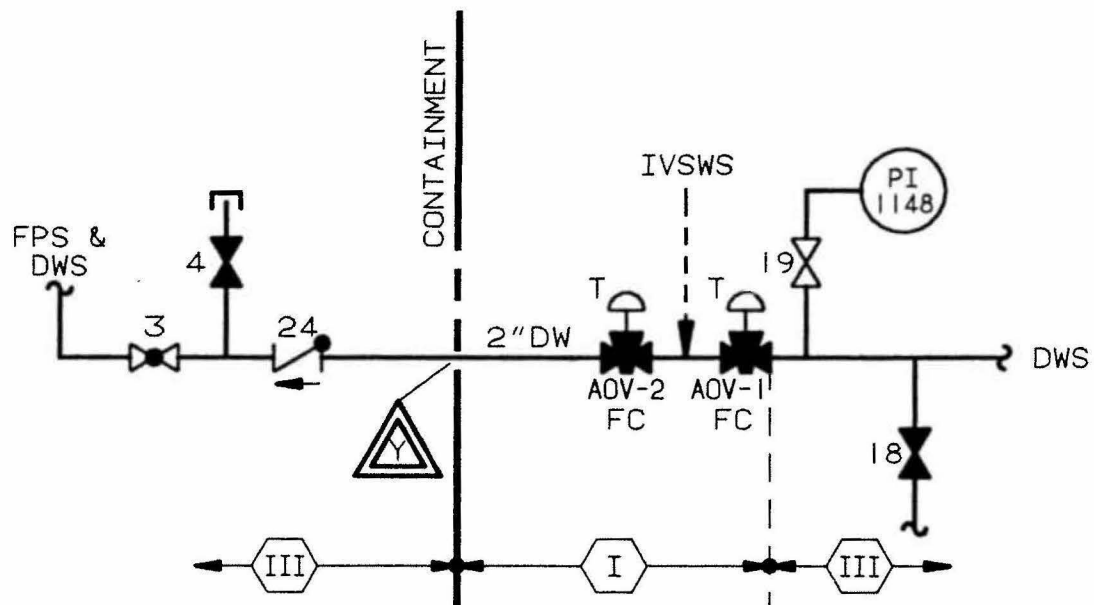


## NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. ENTIRE SYSTEM SHOWN IS SEISMIC CLASS I DESIGN.

INDIAN POINT 3 FSAR UPDATE	
CONTAINMENT ISOLATION SYSTEM SCHEMATICS	
PERSONNEL AIR LOCK	
REV. 1 JUN, 1999	FIGURE NO. 5.2-27A

# DEMINERALIZED WATER INTO CONTAINMENT (DW)















## NOTES:

1. FOR LEGEND, SEE FIGURE 5.2-29
2. ALL VALVE NOS. ARE PRECEDED BY "DW"





<b>INDIAN POINT 3 FSAR UPDATE</b>
CONTAINMENT ISOLATION SYSTEM SCHEMATICS DEMINERALIZED WATER
REV.4 JUN. 1999   FIGURE NO. 5.2-28

# LEGEND


## VALVES

	PLUG
	GLOBE
	DIAPHRAGM
	GATE
	BALL
	DOUBLE DISC GATE
	CHECK
	BUTTERFLY
	RELIEF
	NEEDLE
	NON RETURN (PISTON TYPE)
	SELF CONTAINED PRESSURE REGULATOR








## OPERATORS

	AIR DIAPHRAGM
	AIR CYLINDER (PISTON)
	MOTOR
	SOLENOID




## VALVE POSITION (NORMAL)

	OPEN
	CLOSED

## MISCELLANEOUS

	CONTAINMENT PENETRATION
	STRAINER
	TEST CONNECTION
	VENT CONNECTION
	DRAIN CONNECTION
	STEMLEAKOFF
	RAD. MONITOR

## SYSTEM PREFIX IDENTIFICATION

AA	AUTOMATIC PRESSURIZATION WITH AIR	
N <sub>2</sub>	MANUAL PRESSURIZATION WITH NITROGEN	
S	OPENED ON SAFETY INJECTION SIGNAL	
T	TRIPPED CLOSED BY CONTAINMENT ISOLATION SIGNAL, PHASE A	
P	TRIPPED CLOSED BY CONTAINMENT ISOLATION SIGNAL, PHASE B	
P*	TRIPPED OPEN BY CONTAINMENT ISOLATION SIGNAL, PHASE B	
LO	LOCKED OPEN	DWS DEMINERALIZED WATER SYSTEM
LC	LOCKED CLOSED	FPS FIRE PROTECTION SYSTEM
	SEISMIC CLASS I	RCS REACTOR COOLANT SYSTEM
	SEISMIC CLASS II	RHR RESIDUAL HEAT REMOVAL
	SEISMIC CLASS III	PRT PRESSURIZER RELIEF TANK
NC	NORMALLY CLOSED	DT REACTOR COOLANT DRAIN TANK
SS	SAMPLING SYSTEM	RWST REFUELING WATER STORAGE TANK
FC	FAIL CLOSED	BIT BORON INJECTION TANK
LT	LOCKED THROTTLED	
IVSWS	ISOLATION VALVE SEAL WATER SYS.	

## INDIAN POINT 3 FSAR UPDATE

CONTAINMENT ISOLATION SYSTEM  
SCHEMATICS-LEGEND FOR  
SYMBOLS AND NOTATION

REV. 4 JUN, 1999 FIGURE NO. 5.2-29