

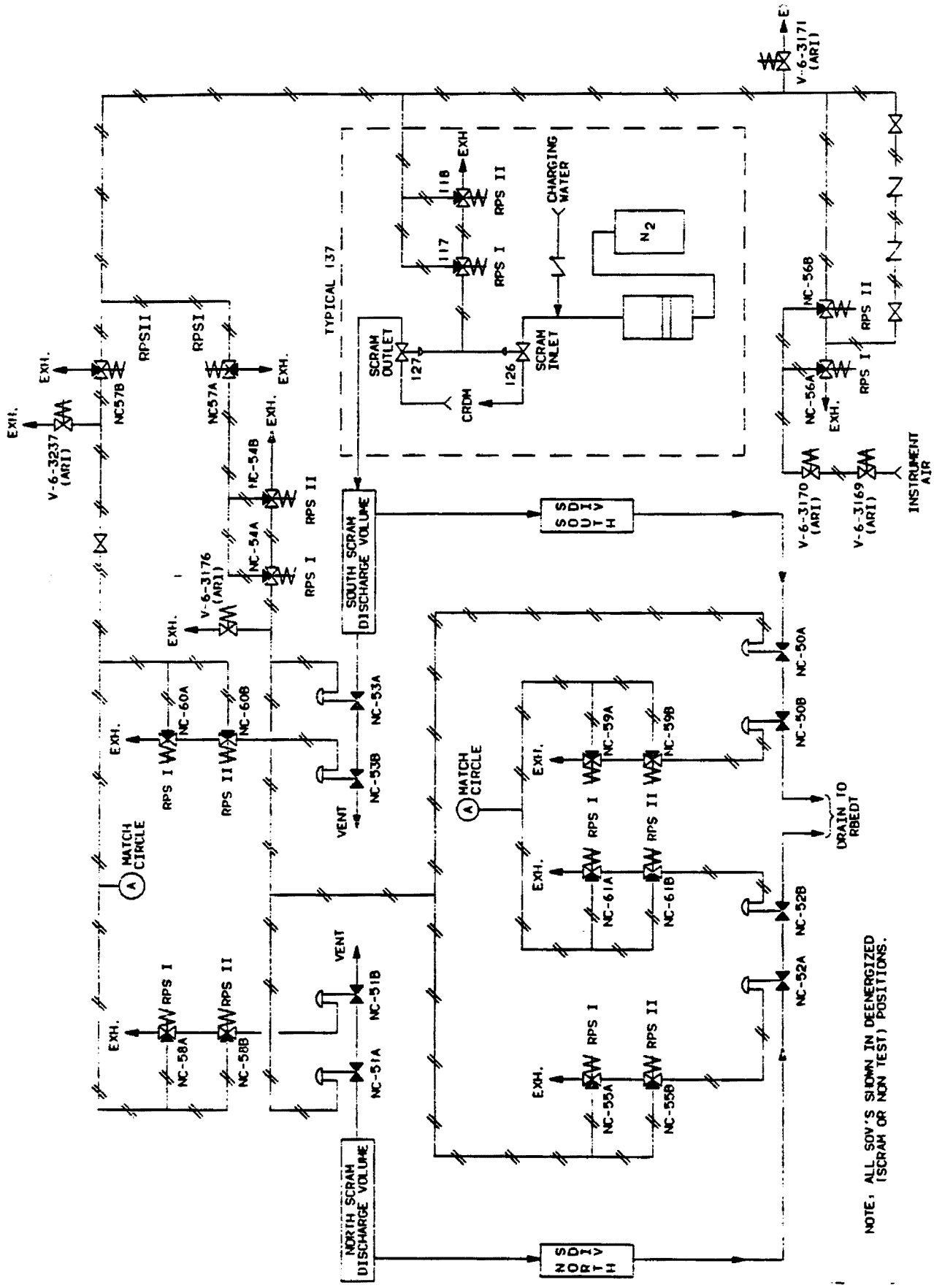
Update-10
04/97

GPU Nuclear
Dyster Creek

Plant Protection Functions
Block Diagram

CAUD #
SSE-SMA-00-0090-001-0201

Fig. 7.2-1



Update 9
06/95

**FIGURE 7.2-2
REACTOR PROTECTION SYSTEM
SOLENOID VALVE CONTROL**

ANNUNCIATOR WINDOW LOCATION AND DESCRIPTION

G

	FUEL POOL	LIQUID POISON SYSTEM	R E A C T O R			
			RPS	NEUTRON MONITORS		
1		FLOW ON	SCRAM CONTACTOR OPEN	CHANNEL I	IRM HI-HI/INOP	APRM HI-HI/INOP
				AND	AND I	AND I
2	GATES LEAK HI	SQUIB VALVE OPEN	RPS MG SET 1 TRIP	CHANNEL II	IRM HI-HI/INOP	APRM HI-HI/INOP
					II	II
3	REFUEL SEAL LEAK HI		RPS MG SET 2 TRIP	SRM HI-HI	IRM HI	APRM HI
4	POOL LEVEL/TEMP HI	TANK LEVEL HI/LO	RPS 600 #/SD BYPASS	SRM HI-/INOP	IRM DNSCL	APRM DNSCL
5	POOL LEVEL LO			SRM DNSCL		APRM FLO BIAS OFF NORMAL
6	SKM SRG TNK LVL LOW		RPV-FLANGE ΔT - HI			LPRM HI
7	SKM SRG TNK LVL LO-LO		RPS ISOLATION CI R _x I I	SRM PERIOD SHORT		LPRM DNSCL
8		TANK TEMP HI/LO	RPS ISOLATION CI R _x I II		TIP PURGE PRESS HI/LO	TIP SQUIB CONTINUITY
	a	b	c	d	e	f

NOTES:

1. INPUT CONTACTS OPEN TO ALARM.
2. REFER TO ELECTRICAL CONNECTION DIAGRAM DWG. NO. 3E-661-18-024 SH. 1 FOR OTHER COMMON TERM. NO'S.

Rev. 12 04/01

OYSTER CREEK NUCLEAR GENERATING STATION

Reactor Trip System Alarms

Figure 7.2-3A

ANNUNCIATOR WINDOW LOCATION AND DESCRIPTION

H

NSSS

	CONTROL RODS / DRIVES			REACTOR		
	ROD CONTROL	SDV	HYDR	DW PRESS	LEVEL	PRESS
1	CONTROL AIR PRESS LO	SDV LEVEL HI-HI	PUMP A OL	DW PRESS HI-HI (CI) AND I	CCW RX LVL LO-LO-LO	RX PRESS HI-HI E AND I
2	ARI INITIATED	SDV LEVEL HI-HI II	PUMP B OL	DW PRESS HI-HI (CI) II	CCW OR RX LVL LO-LO-LO II	RX PRESS HI-HI E II
3	ARI OFF NORMAL	NORTH SDV LEVEL HI ROD BLOCK	SUCT PRESS LO PUMP TRIP		RXI RX LVL LO-LO (CI) AND I	RX PRESS HI-HI
4		SOUTH SDV LEVEL HI ROD BLOCK	FILTER Δ P HI		RX LVL LO-LO (CI) II	
5	ROD OVERTRAVEL	SDV NOT DRAINED	CRD TEMP HI	ROPS ACTUATE A	RX LVL LO E I	RX LVL HI △ II AND I
6	ROD DRIFT	SDV LEVEL HI-HI SCRAM BYPASS		ROPS ACTUATE B	RX LVL LO E II	RX LVL HI △ II II
7	ROD BLOCK		CHARG WTR PRESS LO	ROPS BYPASSED	RX LVL HI/LO	
8			ACCUMULATOR PRESS LO/ LEVEL HI		RX LVL/PRESS INSTR CHANL TEST	RX LVL/PRESS INSTR PWR LOST
	a	b	c	d	e	f

NOTES:

1. INPUT CONTACTS OPEN TO ALARM.
2. REFER TO ELECTRICAL CONNECTION DIAGRAM DWG. NO. 3E-611-18-024 SH. 1 FOR OTHER COMMON TERM. NO'S.
3. CONNECT DROP #5-C ALARM CKT. TO ALARM ON SIGNAL CONTACT CLOSURE.

FIGURE 7.2-3B

REV. 16, OCTOBER 2009

OYSTER CREEK NUCLEAR GENERATING STATION

Reactor Trip System Alarms

Figure 7.2-3B

OCNGS
FSAR UPDATE

ANNUNCIATOR WINDOW LOCATION AND DESCRIPTION

BOP		J		F E E D P U M P S		
M A I N S T E A M			1A	1B	1C	
1	MSIV CLOSED I	COND VAC LO/ TURB TRIP I	DUAL COMPUTER FAILURE	FEED PUMP TRIP A	FEED PUMP TRIP B	FEED PUMP TRIP C
2	MSIV CLOSED II	COND VAC LO/ TURB TRIP II	DUAL LINK FAILURE	FEED PUMP OL A	FEED PUMP OL B	FEED PUMP OL C
3	RXI FLOW HI/MN STM LINE AREA TEMP HI-HI I			LUBE OIL PRESS LO A	LUBE OIL PRESS LO B	LUBE OIL PRESS LO C
4	RXI FLOW HI/MN STM LINE AREA TEMP HI-HI II			MIN FLOW OPEN A	MIN FLOW OPEN B	MIN FLOW OPEN C
5	RXI MN STM PRESS LO I	RAD HI		MFRV LOCKUP A	MFRV LOCKUP B	MFRV LOCKUP C
6	RXI MN STM PRESS LO II	LO PRESS BYPASS		BLOCK VLV TROUBLE A		BLOCK VLV TROUBLE C
7	FLOW MISMATCH					
8	TRUNNION RM E TEMP HI	MN STM VLVS OFF NORMAL	FCS/RFC TROUBLE		HWC H2 INJ. TROUBLE	COND/FD PMP BRG TEMP HI
	a	b	c	d	e	f

NOTES:

- 1 INPUT CONTACTS OPEN TO ALARM.
- 2 REFER TO ELECTRICAL CONNECTION DIAGRAM DWG. NO. 3E-611-18-024 SH. 1 & 2 FOR OTHER COMMON TERM. NO'S.

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Fig. 7.2-3C

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Figures 7.2-4A through 7.2-4E

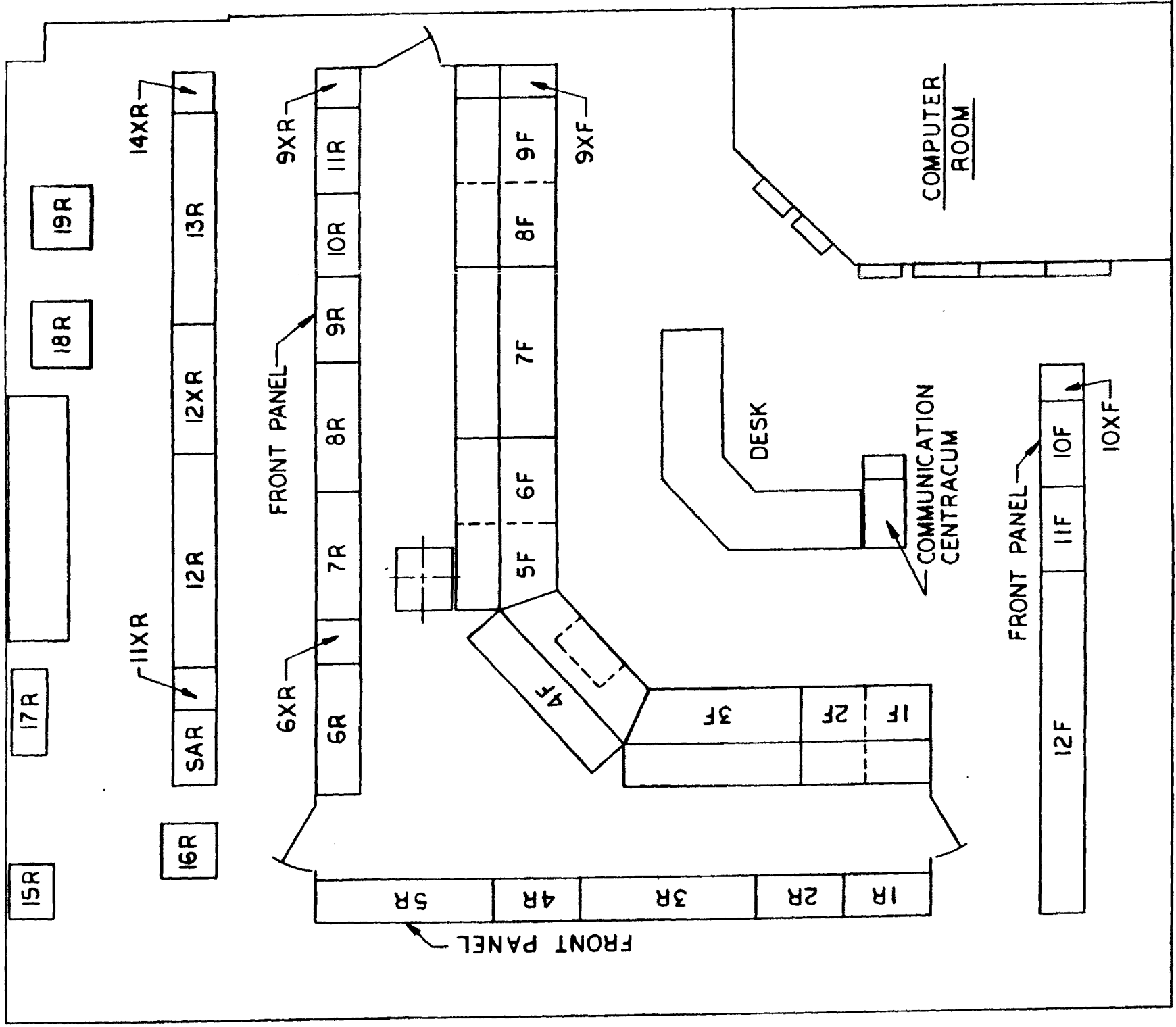
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Figures 7.3-1A through 7.3-3C

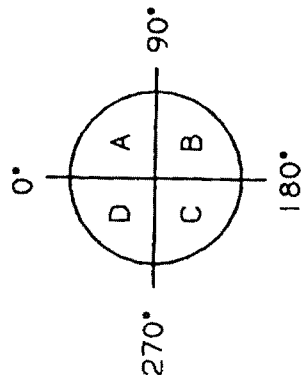
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PANEL LAYOUT



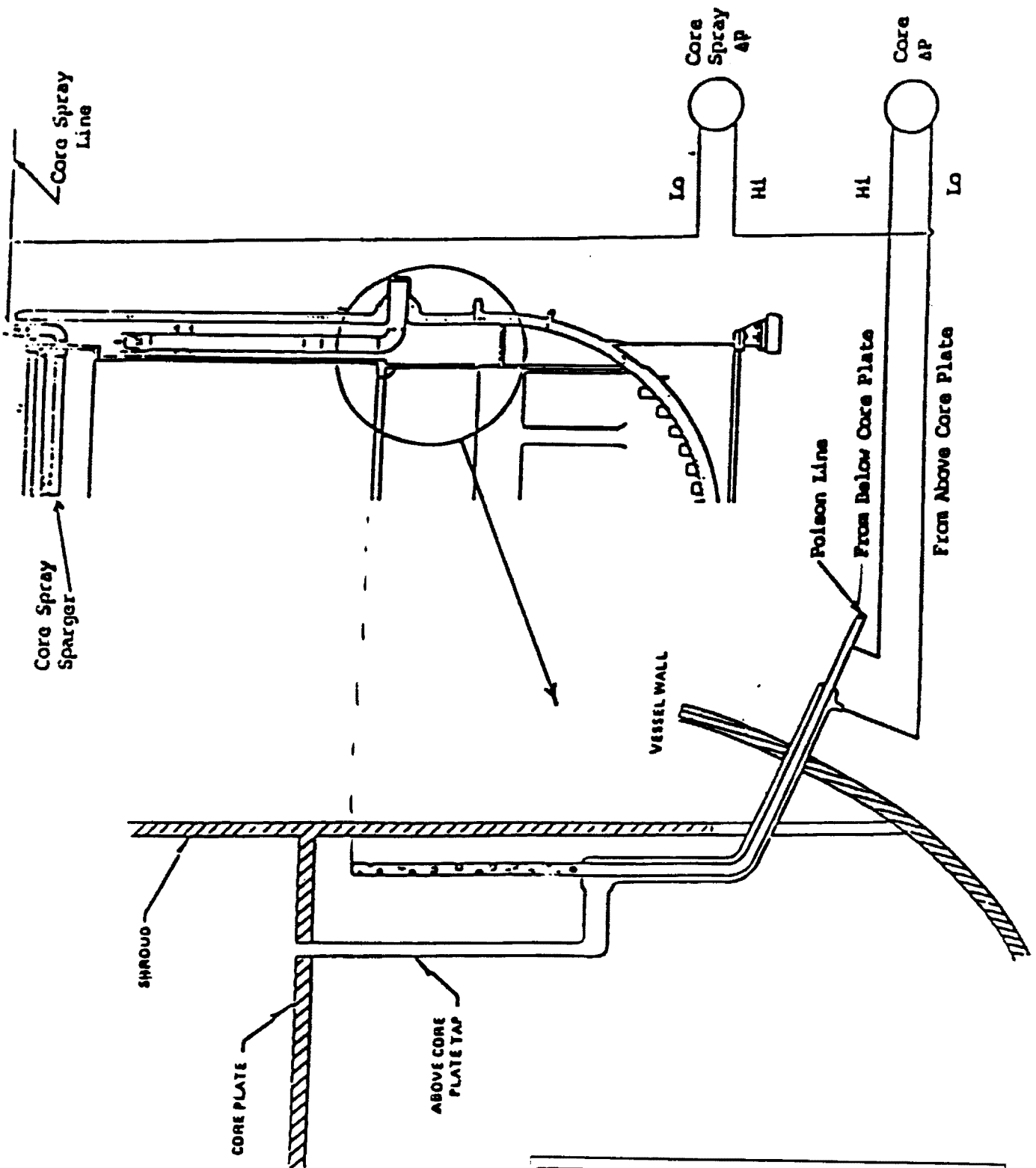
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|---|--|
| <p>NO.</p> <p>1F/2F
3F
4F
5F/6F
7F
8F/9F
9XF
10F
10XF
11F
12F
1R
2R
3R
4R
5R
6R
6XR
7R
8R
9R
9XR
10R
11R
11XR
12R
12XR
13R

14XR
15R
16R
17R
18R
19R
SAR</p> | <p>DESCRIPTION</p> <p>REACTOR & DRYWELL COOLING
CLEAN UP & RECIRCULATION
REACTOR CONTROL
FEEDWATER & CONDENSATE
TURBINE
GENERATOR & AUXILIARY POWER
EMERGENCY DIESEL GENERATOR
AREA & PROCESS RADIATION
AUGMENT OFFGAS
ISOLATION
SWITCHYARD - REMOTE CONTROL PANEL
PROCESS RADIATION MONITOR
AREA RADIATION MONITOR
NEUTRON MONITORS
NEUTRON FLUX CALIBRATION
NEUTRON MONITORS
PROTECTION CHANNEL NO. 1
PROTECTION SYSTEM OPERATIONS
PROTECTION CHANNEL NO. 2
TEMPERATURE RECORDERS
FEEDWATER & RECIRCULATION
ENVIRONS MONITORING
PROCESS INSTR. EQUIP.
GAS TREATMENT & VENTILATION
TELEMETERING & GENERATOR PROTECTION
GENERATOR & TRANSFORMER PROTECTION
TURBINE & AUXILIARY SYSTEM TEMP.
TURBINE GENERATOR TEST & CHECKOUT &
DRYWELL INERTING SYSTEM
METEOROLOGICAL MONITORING SYSTEM
VMS CABINET
RECORDING PANEL
WIDE RANGE RX VESSEL LEVEL CONTROL CAB.
SCRAM DISCHARGE VOLUME
SCRAM DISCHARGE VOLUME
SEQUENCE ALARMS RECORDER</p> |
|---|--|



EXPLANATION

- FA 53
- ELEVATION
- QUADRANT
- AREA-F-FLANGE
- V-VESSEL
- N-NOZZLE
- B-BOTTOM HEAD
- S-SKIRT
- L-LAGGING (INSULATION)
- H-HEAD



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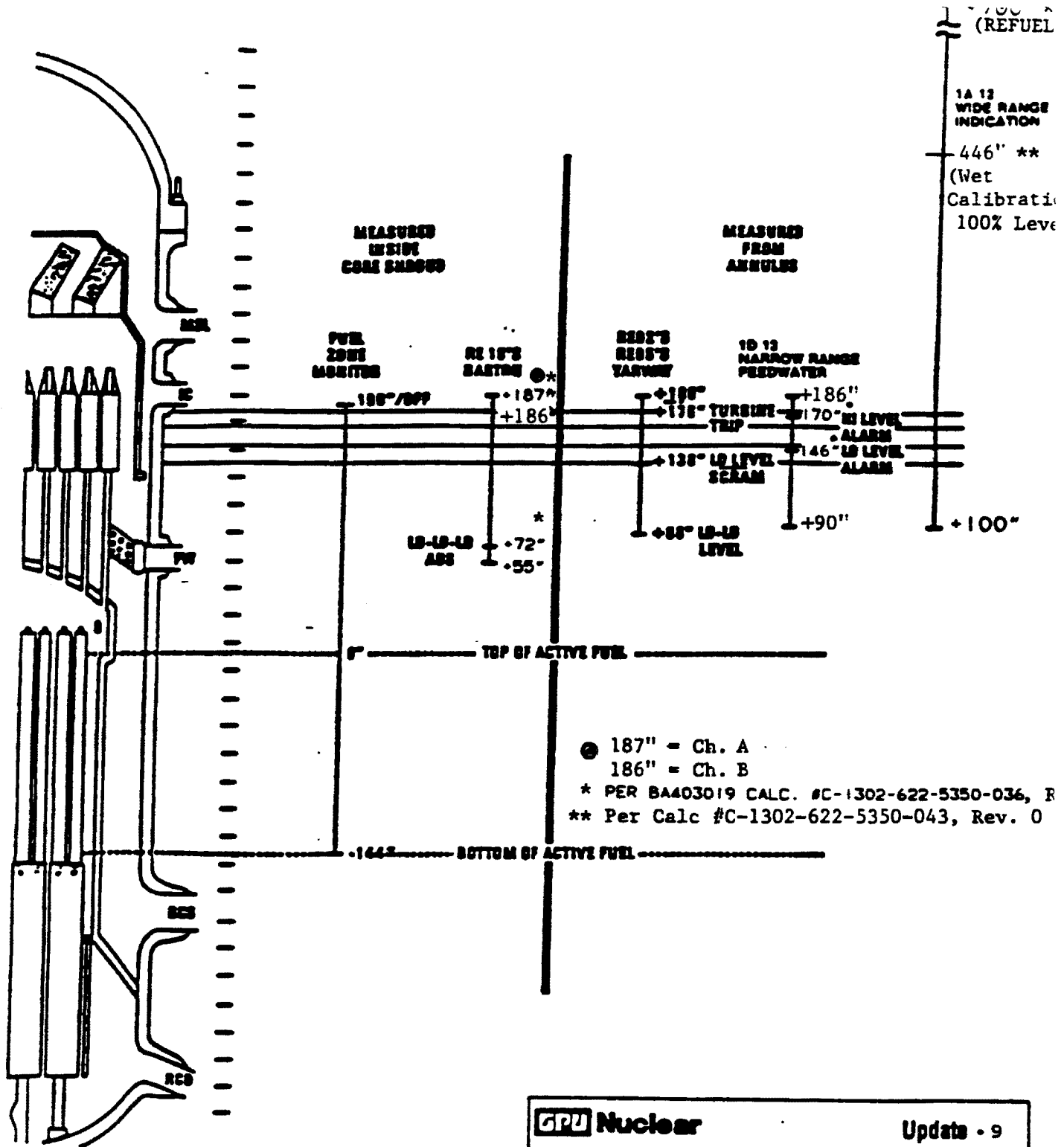
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Core Differential Pressure Instrumentation

Fig. 7.6-2



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Reactor Water Level Instrumentation	
Fig. 7.5-3	

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Figures 7.7-1 through 7.7-4

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CONTROL ROD POSITION INDICATION

Switch Number	Inches From Full Insert	Control Room Display	Rod Position
S51	-1½	Green light, no readout	Overtravel beyond full-in
S52	-3/8	Green light*	Normal full-in (latched)
S00	0	"00" readout*	Normal full-in (latched)
S01	3	"01" readout	Halfway between 00 and 02
S02	6	"02" readout	Locked position 02
S48	144	"48" readout**	Normal full-out (latched)
S49	144	Red light**	Normal full-out (latched)
S50	146	"Overtravel" annunciation	Overtravel beyond full-out

* - Switches S51 and S00 close nearly simultaneously to show "00" readout with green backlighting.
 ** - Switches S48 and S49 close simultaneously to show "48" readout with red backlighting.

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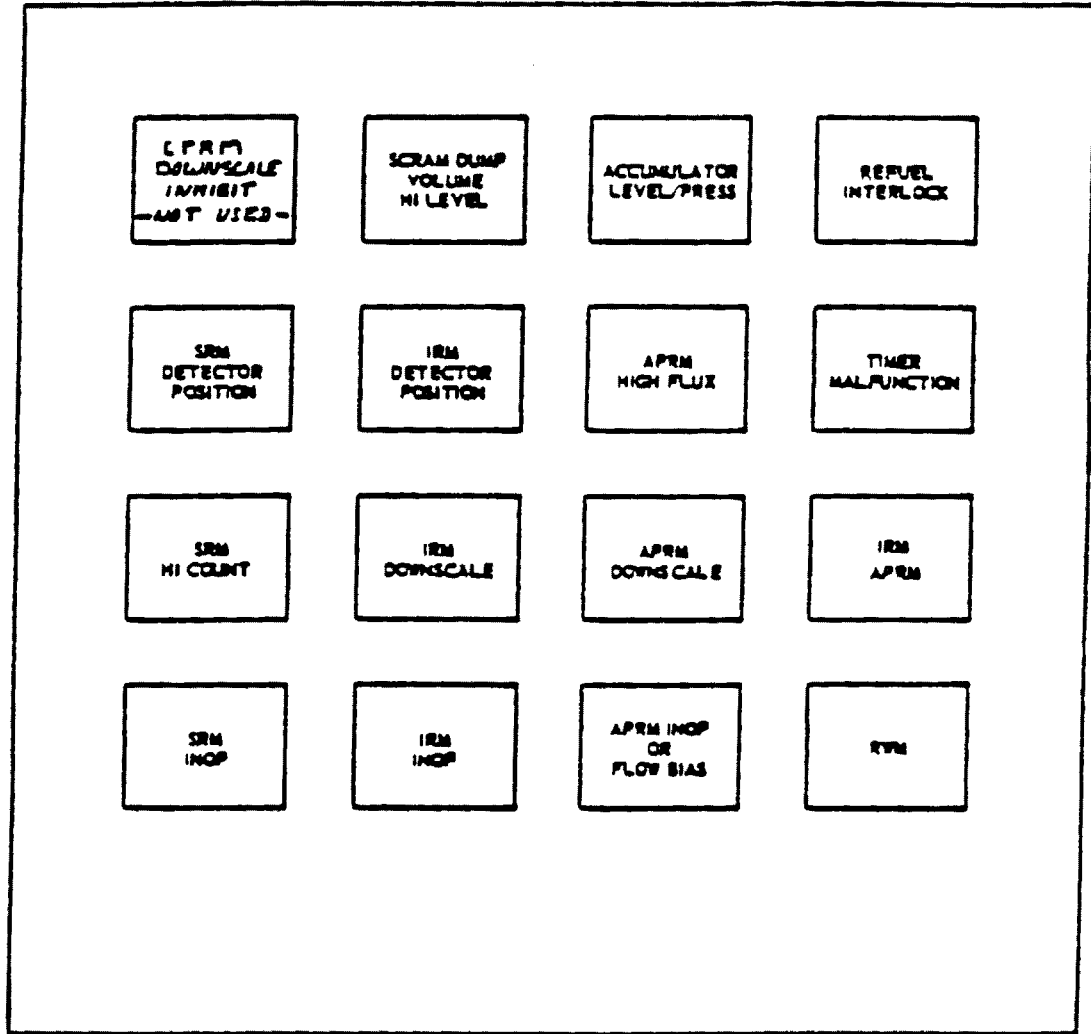
Control Rod Position Indication

Fig. 7.7-5

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Figures 7.7-6A through 7.7-6B

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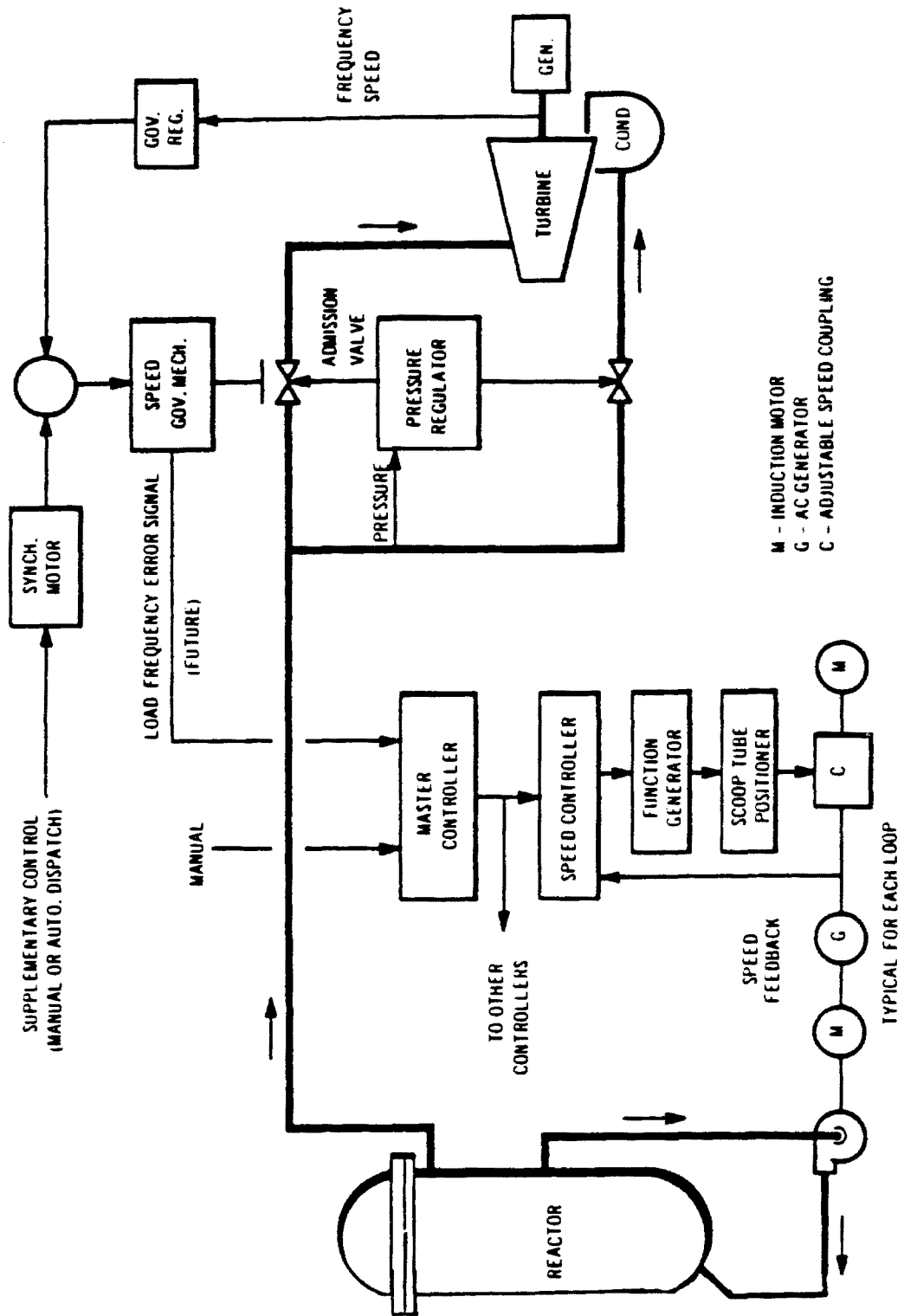
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Rod Block Display

Fig. 7.7-7



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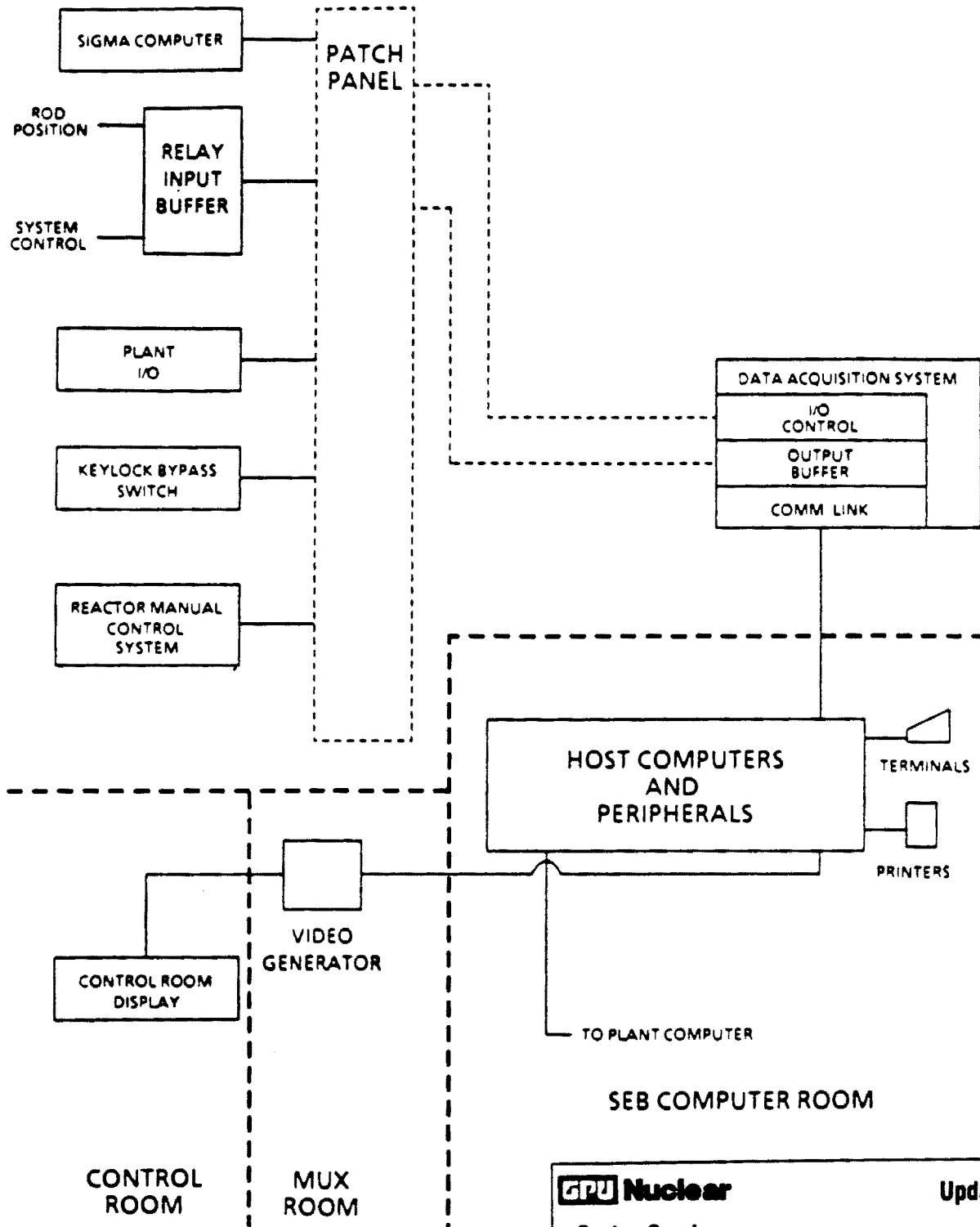
Single Cycle Boiling Water Reactor Flow Control System

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Fig. 7.7-8

RWM CONFIGURATION



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Rod Worth Minimizer — Simplified Block Diagram	
Fig. 7.7-9	

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Figure 7.7-10

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