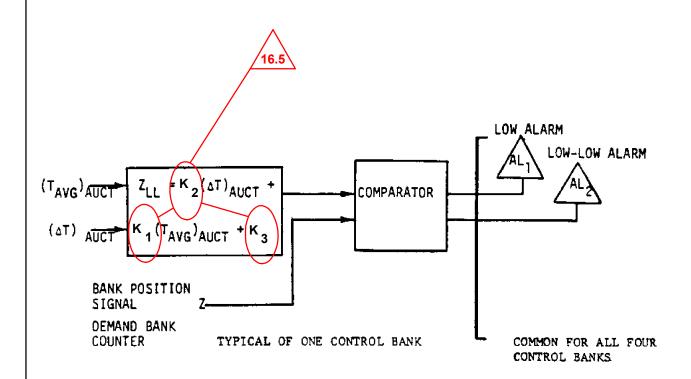


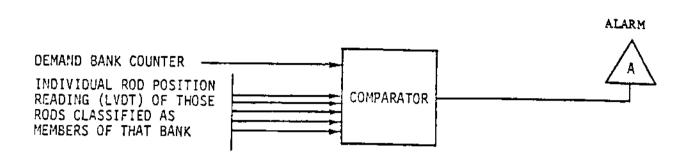
	Revision 21	Change Description: UCR-1852		
	AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		Title: REACTOR PROTECTION SYSTEMS	
			DWG. NO. UFSAR FIG 7.2-2	Sheet 1 of 1



NOTE:

- 1. ANALOG CIRCUITRY IS USED FOR THE COMPARATOR NETWORK.
- 2. COMPARISON IS DONE FOR ALL CONTROL BANKS.

16.5	REVISED PER 98-UFSAR-375				
REV. NO.	DESCRIPTION				
REVISIONS					
COOK NUC	LECTRIC POWER LEAR PLANT IERATION GROUP	TITLE CONTROL ROD BANK INSERTION MONITOR			
BRIDGMAN, MICHIGAN		DWG. NO. FSAR FIG. 7.2-3	SH 1 of 1		



NOTE:

- 1. DIGITAL OR ANALOG SIGNALS MAY BE USED FOR THE COMPARATOR COMPUTER INPUTS.
- 2. THE COMPARATOR WILL ENERGIZE THE ALARM IF THERE EXISTS A POSITION DIFFERENCE GREATER THAN A PRESET LIMIT BETWEEN ANY INDIVIDUAL ROD AND THE DEMAND BANK COUNTER.
- 3. COMPARISON IS INDIVIDUALLY DONE FOR ALL CONTROL BANKS.

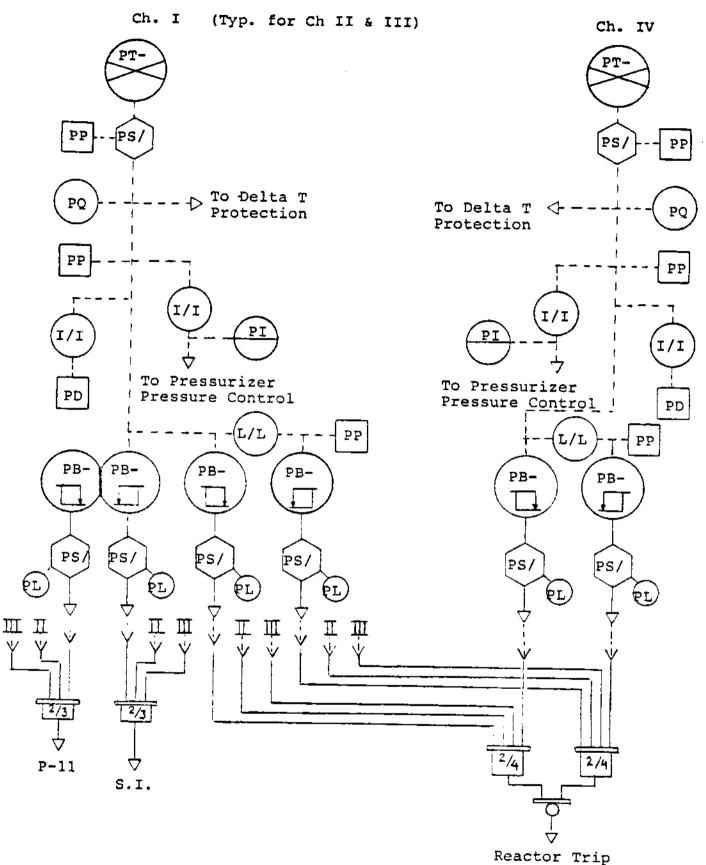


Fig. 7.2-5
PRESSURIZER PRESSURE PROTECTION

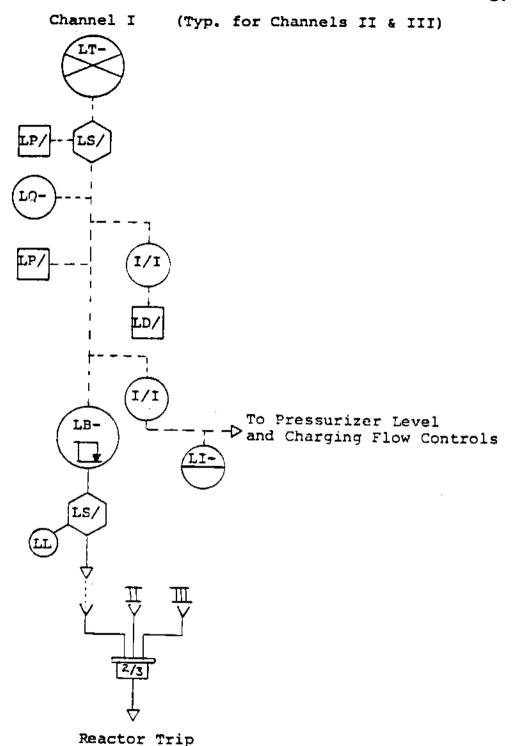
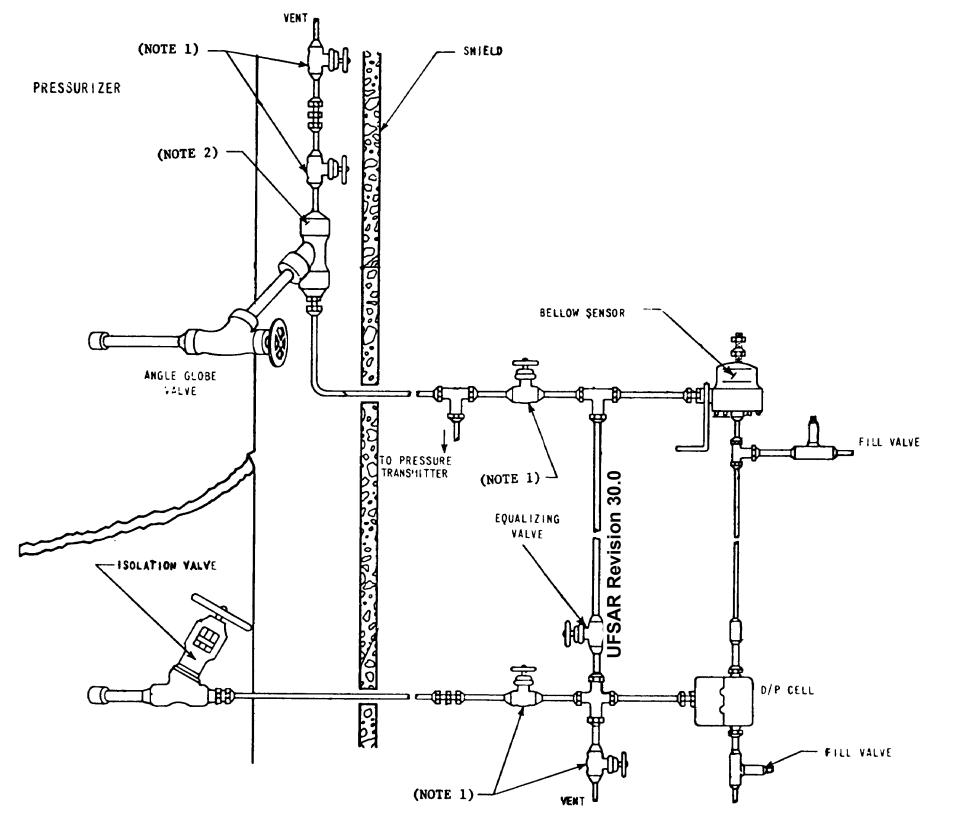


Fig. 7.2-6
Pressurizer Level Protection

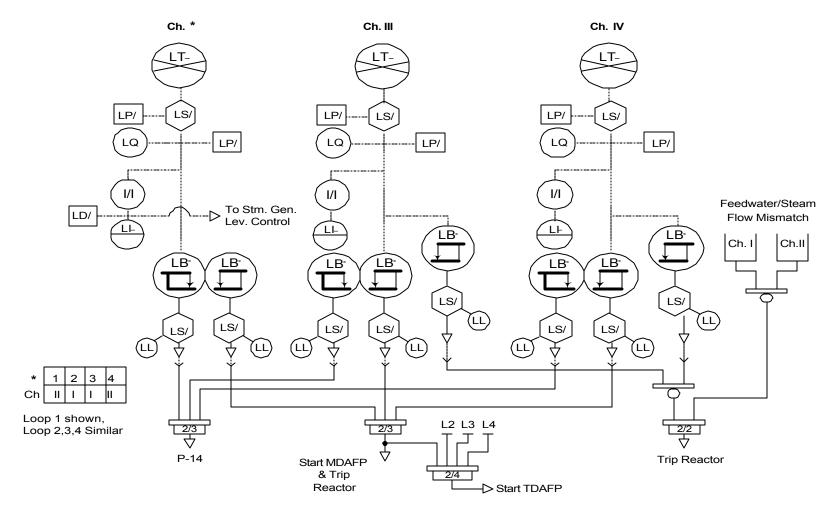


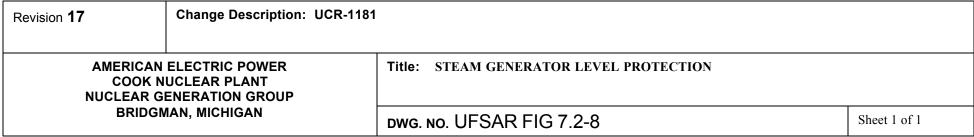
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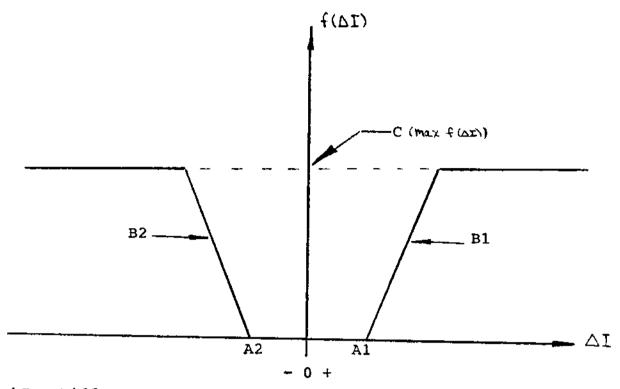
- 1. INSTRUMENT SHUT-OFF AND VENT
- 2. CONDENSATE RESERVOIR

PRESSURIZER SEALED REFERENCE LEG LEVEL SYSTEM

FIGURE 7.2-7 July, 1982







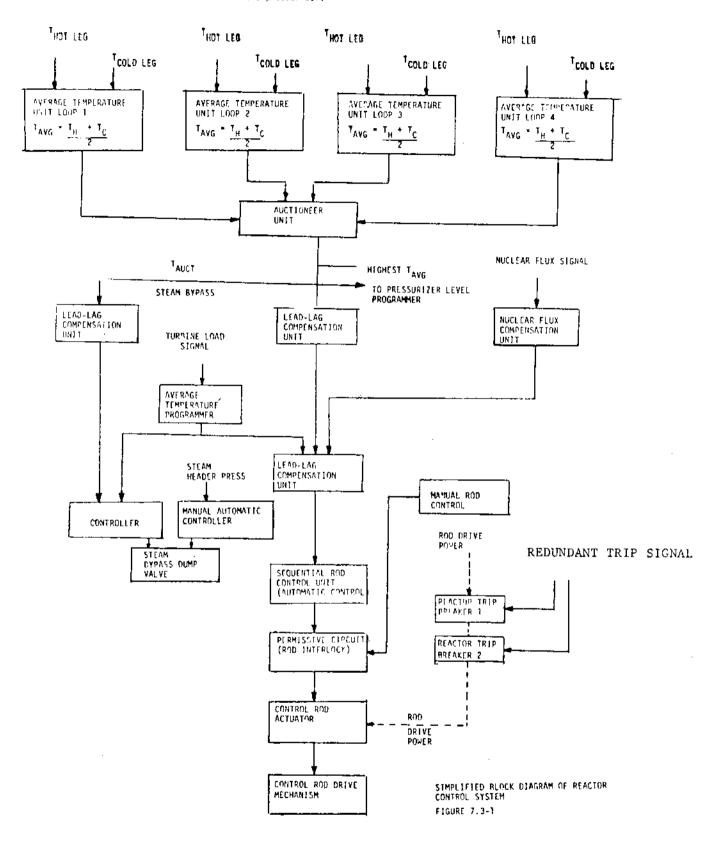
 ΔI = Difference between upper and lower long ion chambers. (qt-qb)

- For qt-qb between A2% and A1%, f(△I)=0
 Where qt qnd qb are percent Rated Thermal Power in the
 top and bottom halves of the core respectively, and qt+qb
 is the total thermal power in percent of Rated Thermal Power.
- 2. For each % that the magnitude of (qt-qb) exceeds A2%, the △T trip setpoint is automatically reduced by B2% of its value at Rated Thermal Power.
- 3. For each % that the magnitude of (qt-qb) exceeds A1%, the △T trip setpoint is automatically reduced by B1% of its value at Rated Thermal Power

SETPOINT REDUCTION FUNCTION FOR OVERPOWER AND OVERTEMPERATURE

DELTA-T TRIPS

FIGURE 7.2-9



July , 1982

UFSAR Revision 30.0 CH IV CH III CH II CH I PT PT PS/ PP/ PŞ PS, PS TO WR PD/ PD/ PD/ To WR PD/ Rec. Rec. PB-PB-PB-PB-PS/ PS/ PS/ PS/ PS/ PS/ PS/ To NR Rec. PL (PL) (PL)(PL)(PL) (PL Cont't Press. HI Cont't Press. HI-HI 2/4 in 2 out of 3 in 2 out of 4 channels channels S.I. C.T.S. C.I.A. C.I.B. C.V.I. S.L.I. F.W.I.

Fig. 7.5-1

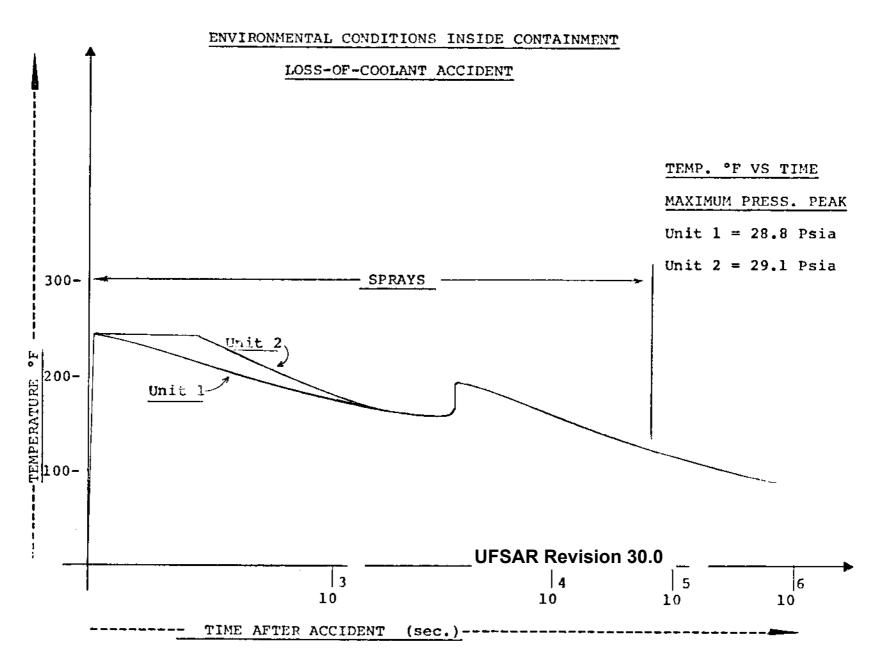


FIGURE 7.5-2
July, 1982

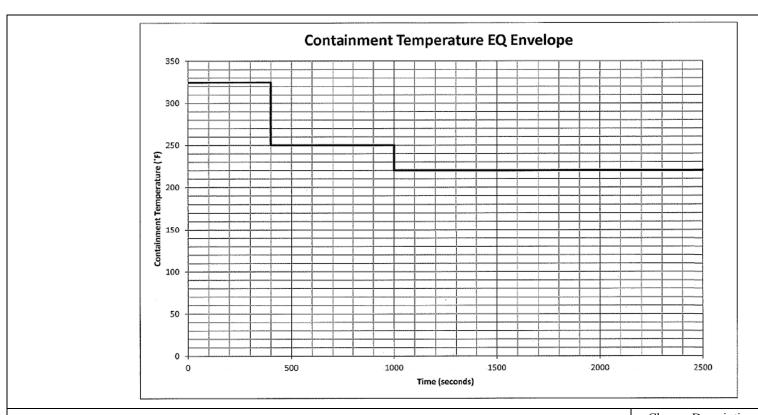


INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

Revised: 27.0

Chapter:

Sheet: 1 of 1



UFSAR Figure: 7.5-3A

Change Description:
UCR-2054, Rev. 0

Unit 1

Title: Environmental Conditions Inside Containment - Main Steam Break (Unit 1)

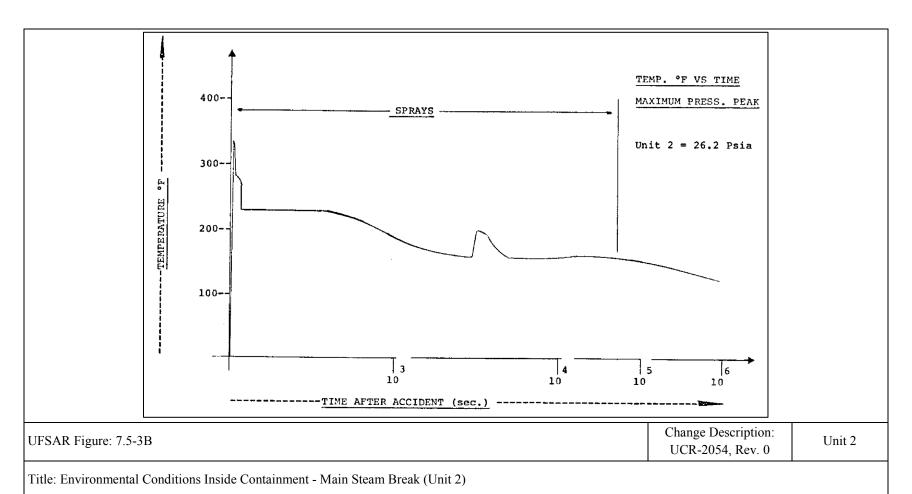


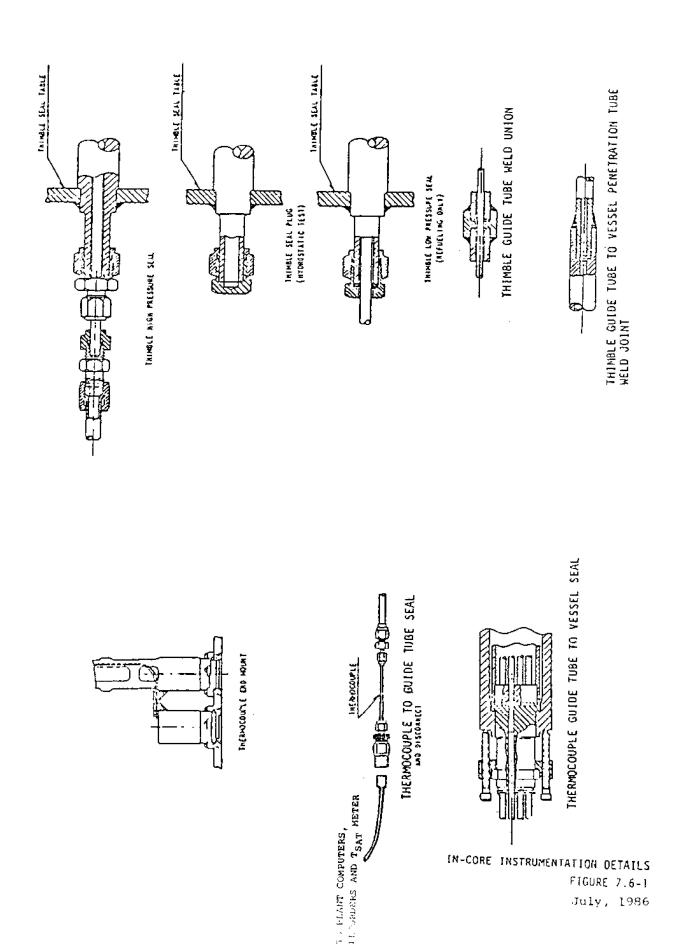
INDIANA MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT

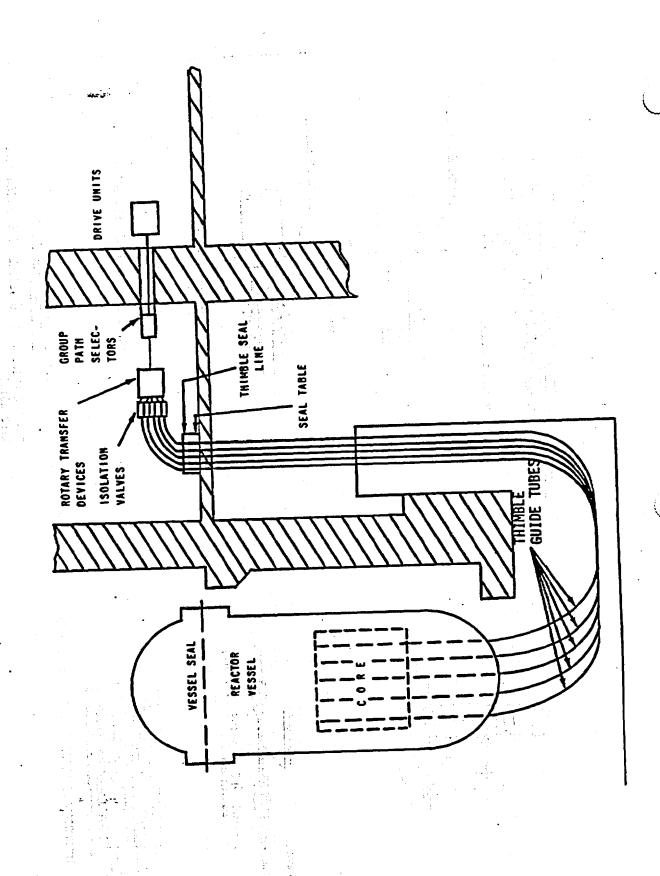
Revised: 27.0

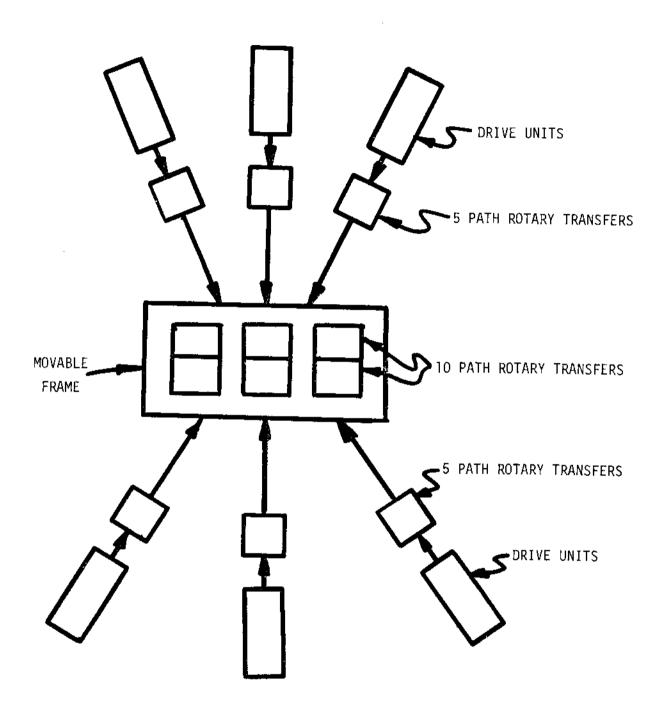
Chapter:

Sheet: 1 of 1



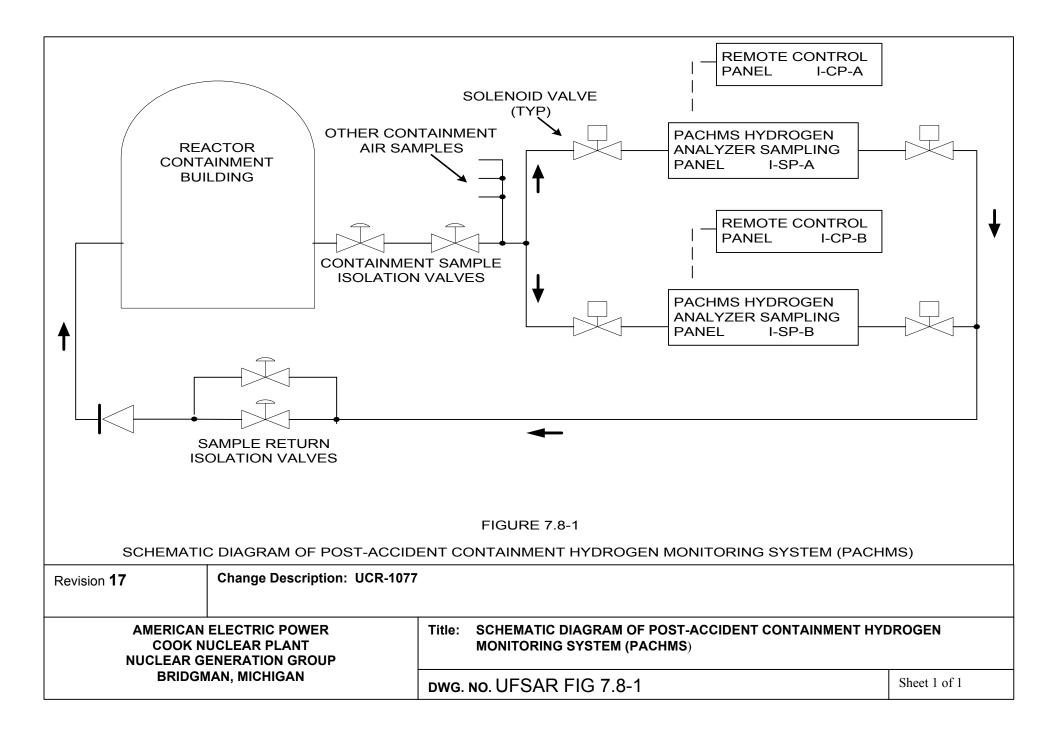






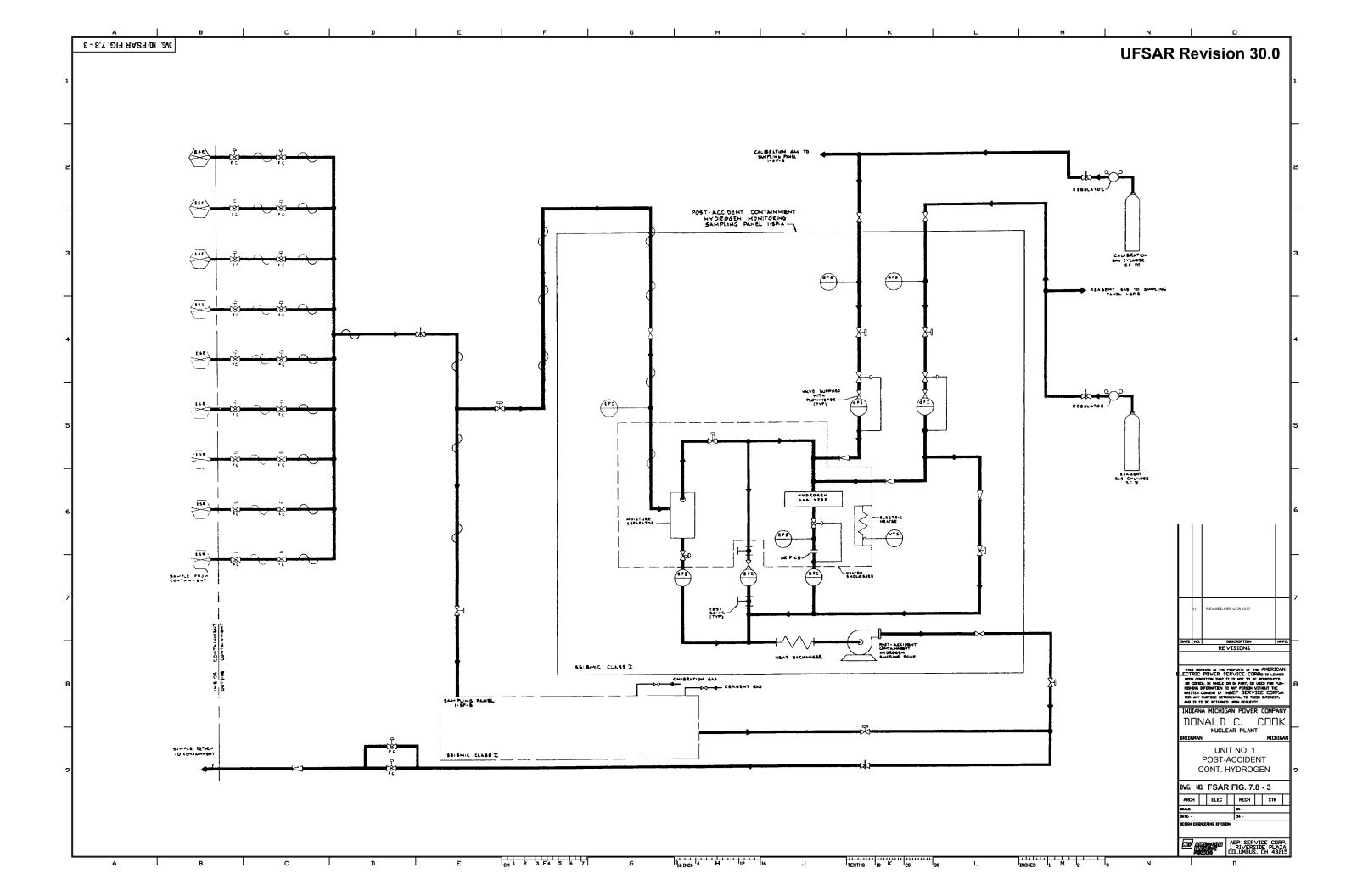
SCHEMATIC ARRANGEMENT OF IN-CORE FLUX DETECTORS (PLAN VIEW)

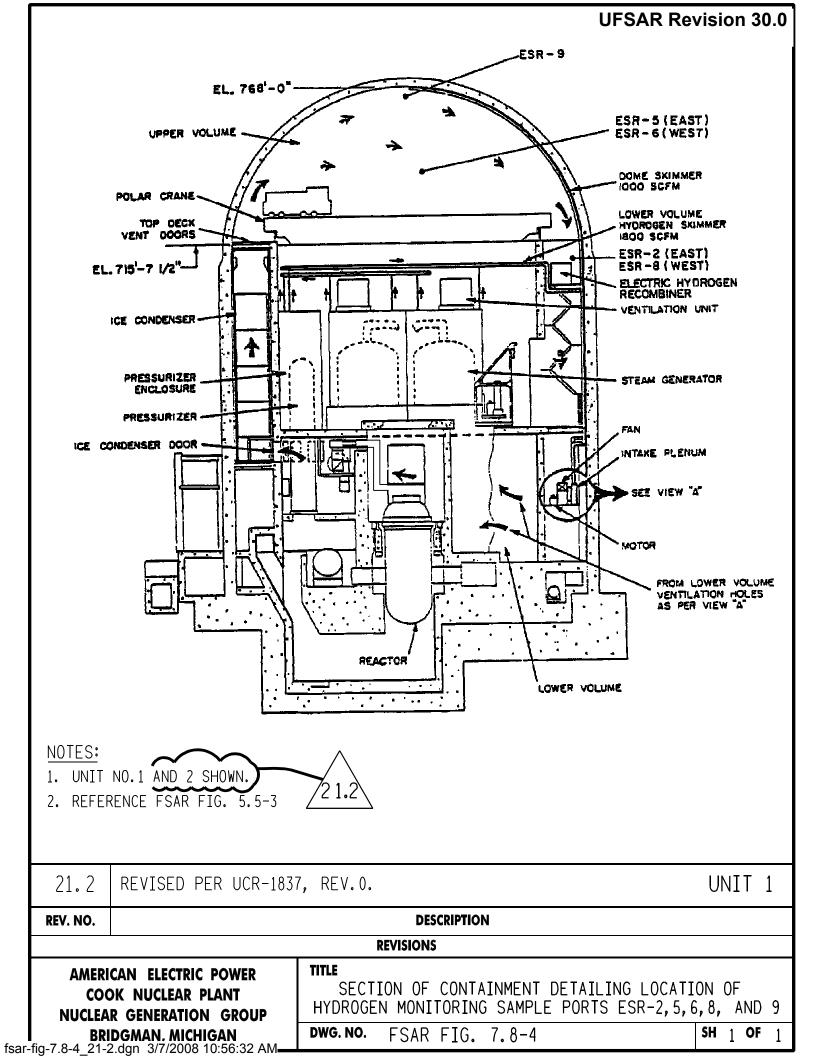
FIGURE 7.6-3 July, 1982

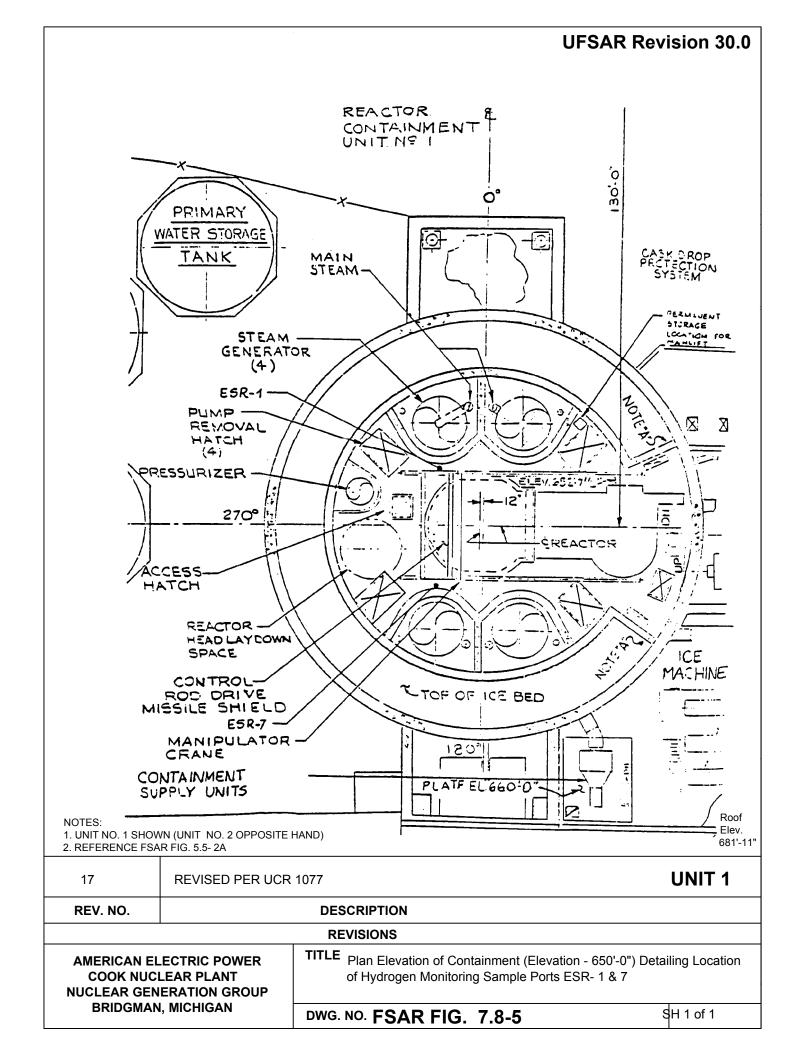


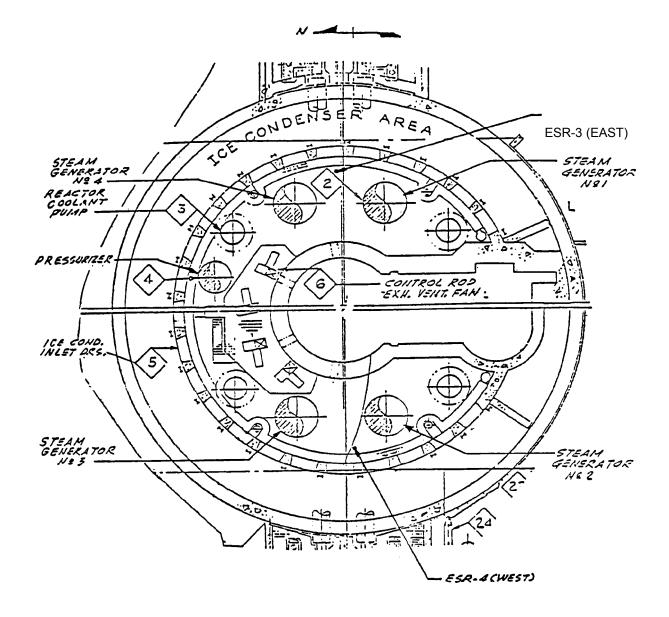
UFSAR Revision 30.0 IA, IB - PACHMS REMOTE CONTROL PANELS-UNIT NO. I 2A, 2B - PACHMS REMOTE CONTROL PANELS-UNIT NO. 2 3 TO 7 - POST - ACCIDENT LIQUID & GAS SAMPLING EQUIPMENT 18 28 **2**A IA SPRAY ADDITIVE TANK UNIT #2 SPRAY ADDITIVE TANK ROOM SPRAY ADDITIVE TANK UNIT #1 ARRANGEMENT OF POST-ACCIDENT SAMPLING EQUIPMENT IN SPRAY ADDITIVE TANK ROOM

17	REVISED PER UCF	R 1077	UNIT 1
REV. NO. DESCRIPTIO		DESCRIPTION	
		REVISIONS	
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		TITLE ARRANGEMENT OF POST-ACCIDENT SAMPLING EG SPRAY ADDITIVE TANK ROOM	QUIPMENT IN
		DWG. NO. FSAR FIG. 7.8-2	SH 1 of 1









NOTES: 1. UNIT NO.1 SHOWN (UNIT NO.2 OPPOSITE HAND) 2. REFERENCE DWG. NO.12-5169

17	REVISED PER UC	UNIT 1			
REV. NO.	DESCRIPTION				
REVISIONS					
AMERICAN ELECTRIC POWER COOK NUCLEAR PLANT NUCLEAR GENERATION GROUP BRIDGMAN, MICHIGAN		TITLE Plan Elevation of Containment (Elevation 6 Location of Hydrogen Monitoring Sample P	33'-0") Detailing Ports ESR-3 & 4		
		DWG. NO. FSAR FIG. 7.8-6	SH 1 of 1		