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SUBJECT: Forwards Rev 49 to SSES FSAR. Rev 49 contains substantive changes, primarily reflective of implementation of power uprate on Units 1 & 2. Amended pages provided to controlled distribution under separate cover.

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**SUSQUEHANNA STEAM ELECTRIC STATION  
FINAL SAFETY ANALYSIS REPORT  
REVISION 49  
PLA-4459**

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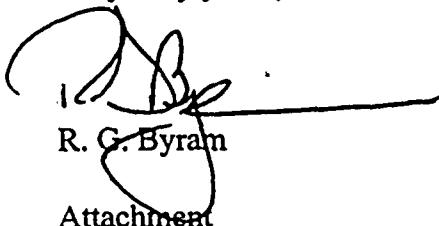
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and 50-388**

The purpose of this letter is to transmit Revision 49 to the Susquehanna SES Final Safety Analysis Report (FSAR). Revision 49 contains substantive changes, primarily reflective of the implementation of Power Uprate on both Susquehanna Units 1 & 2. The amended pages are being provided to the controlled distribution under separate cover.

For your information, PP&L is currently performing a review of the FSAR. Our current plans are to provide additional changes in a supplemental submittal no later than the end of this year.

If you have any questions regarding any of the above, please contact Mr. J.M. Kenny at (610) 774-7535.

Very truly yours,



R. G. Byram

Attachment

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**SUSQUEHANNA STEAM ELECTRIC STATION**

**UNITS 1 & 2**

**FINAL SAFETY ANALYSIS REPORT**

**(FSAR)**

**THIS FSAR SET HAS BEEN UPDATED  
TO INCLUDE REVISIONS  
THROUGH 49, DATED 04/96.**



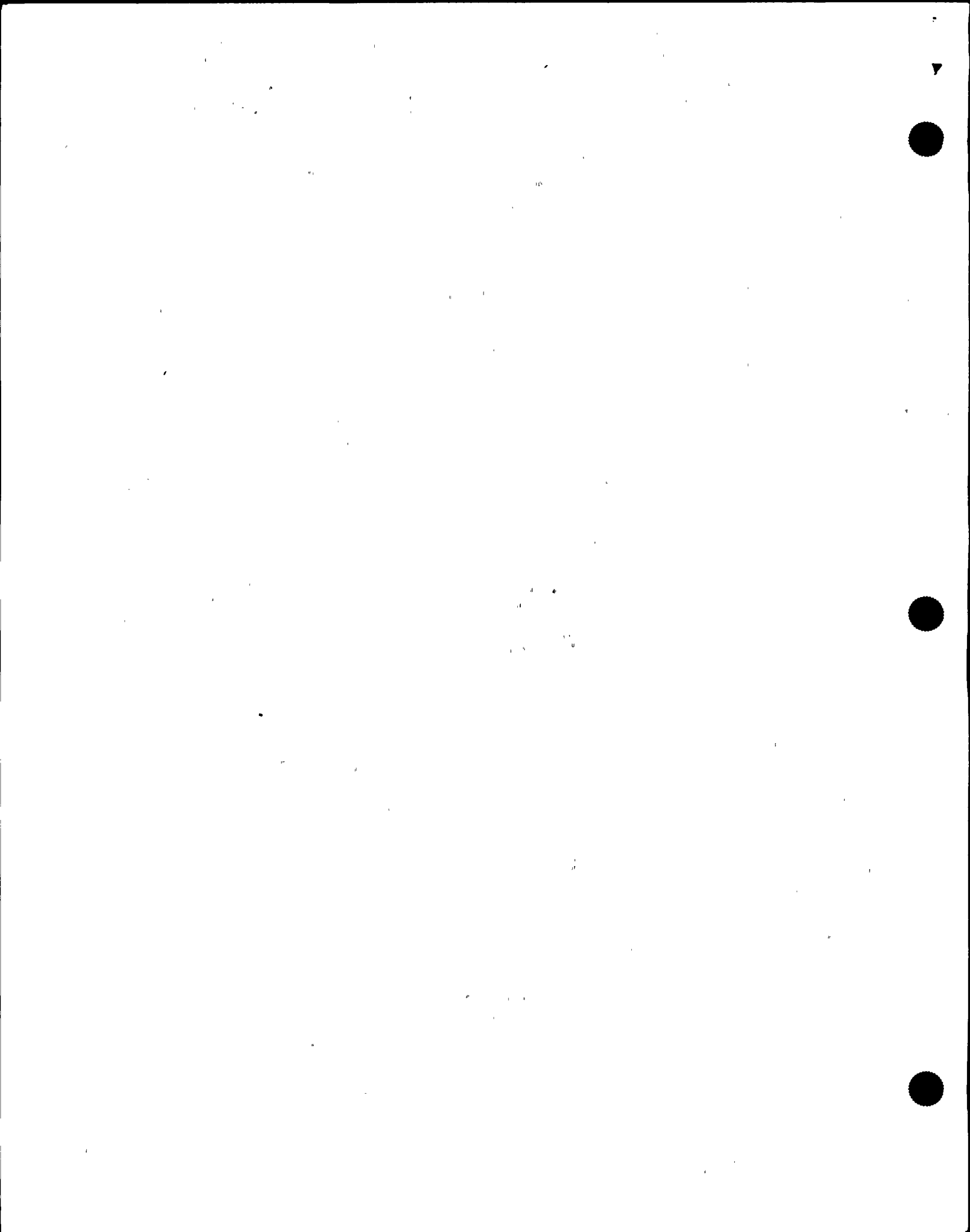
## SSES - FSAR

THE ATTACHED FSAR PAGES, TABLES, AND FIGURES REVISE THE  
SUSQUEHANNA STEAM ELECTRIC STATION FINAL SAFETY ANALYSIS REPORT  
PER AMENDMENT 49, DATED: APRIL, 1996

NOTE: ALL 11"X17" FIGURES ARE SEPARATE FROM 8 1/2" X 11" SHEETS.

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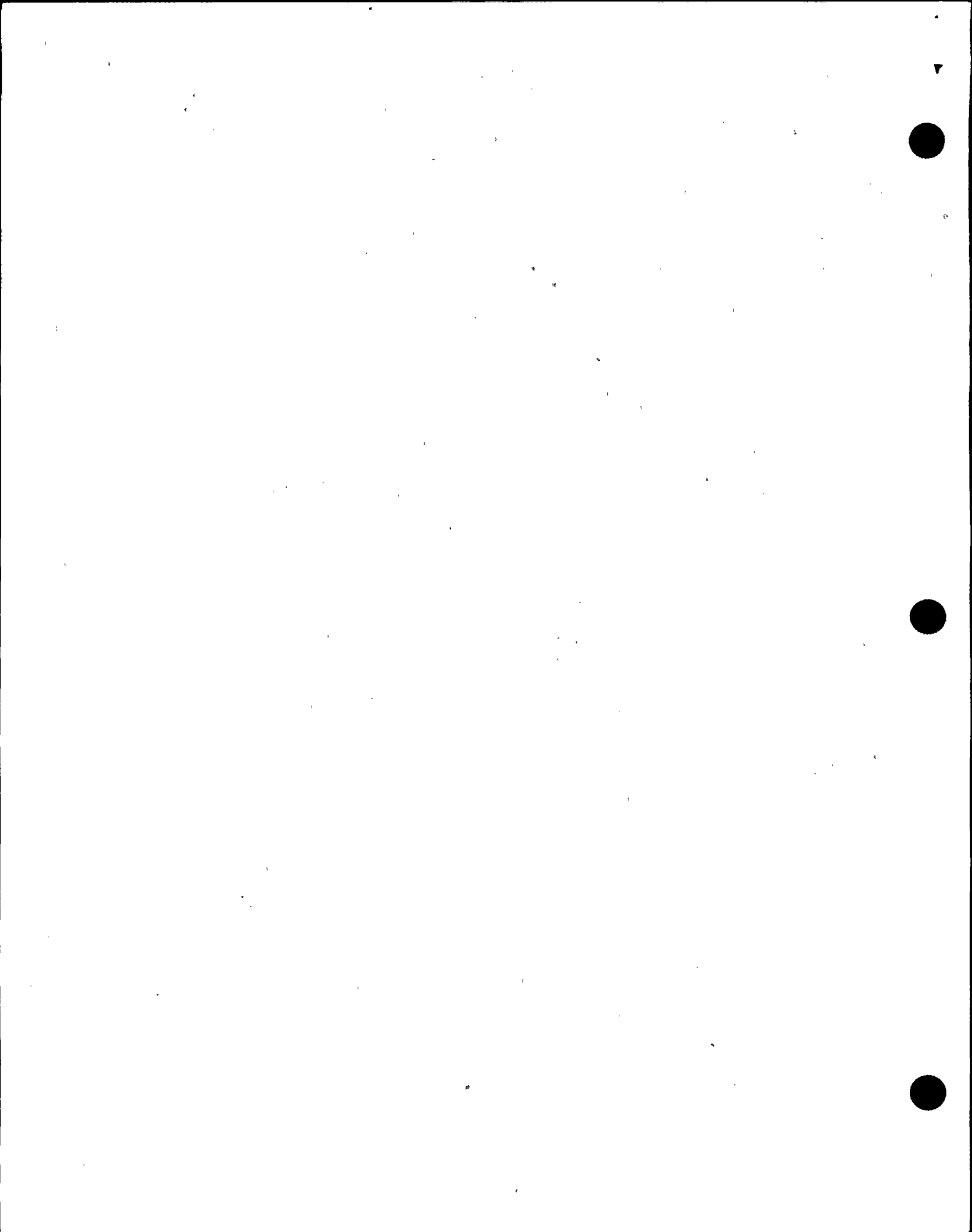
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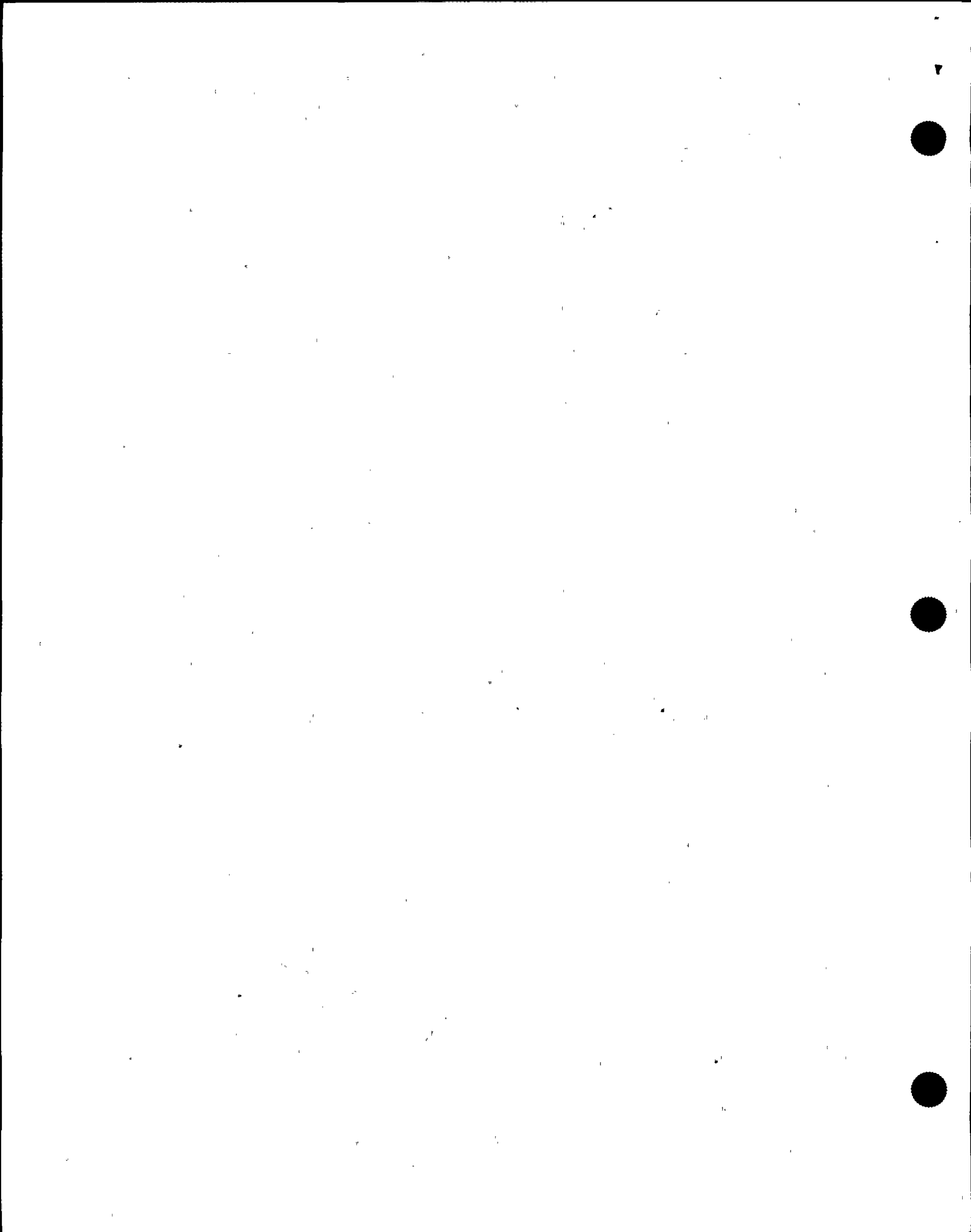
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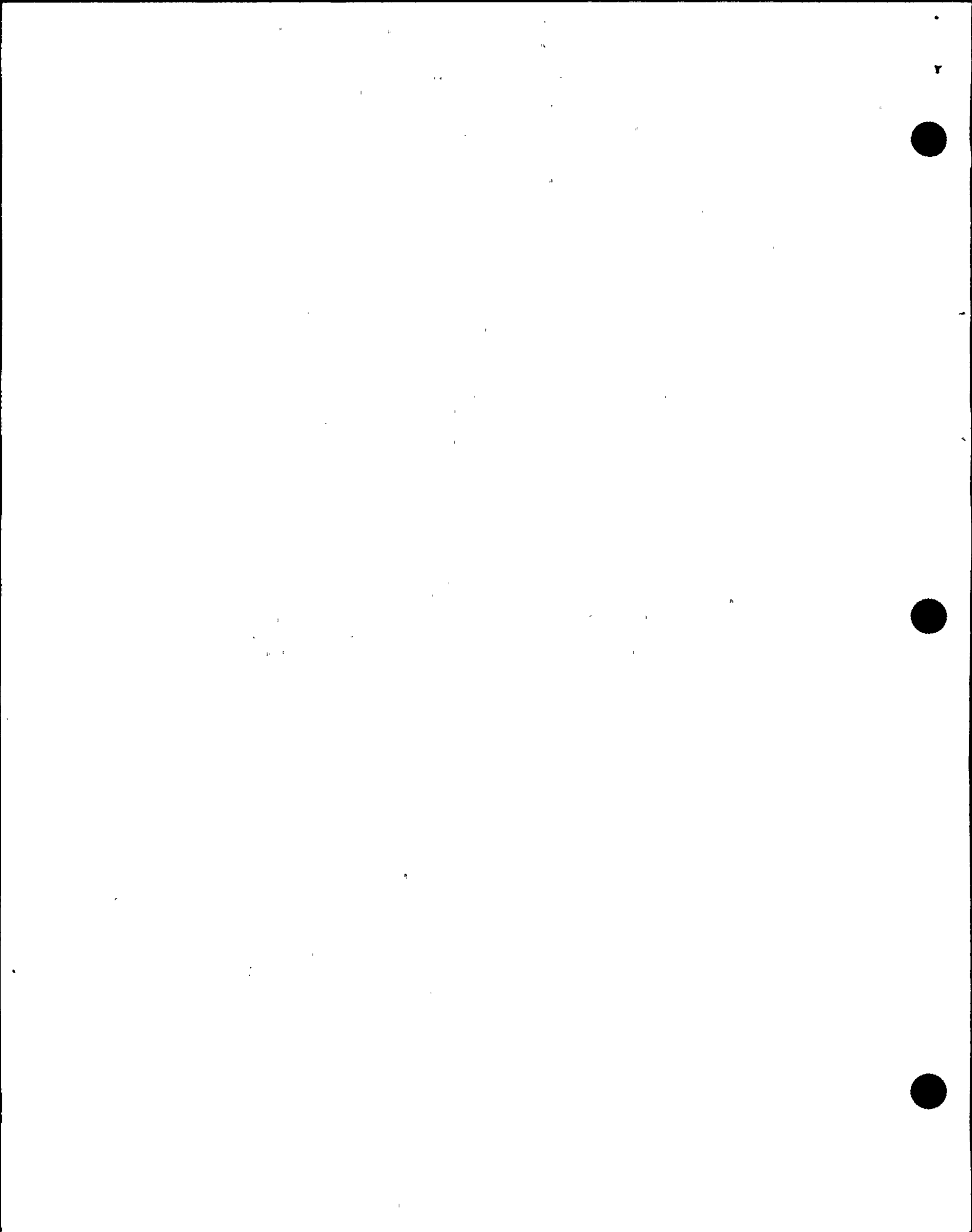
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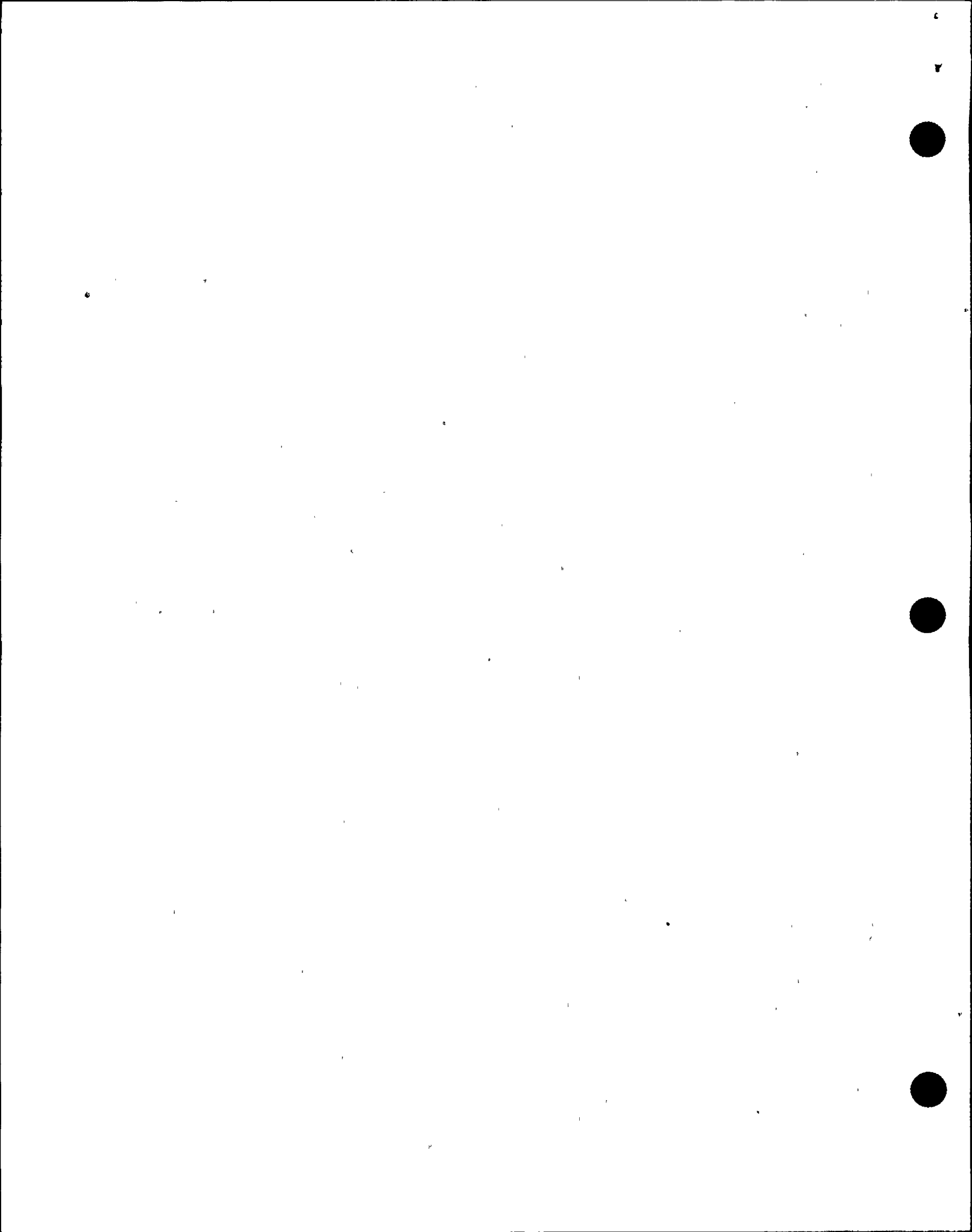
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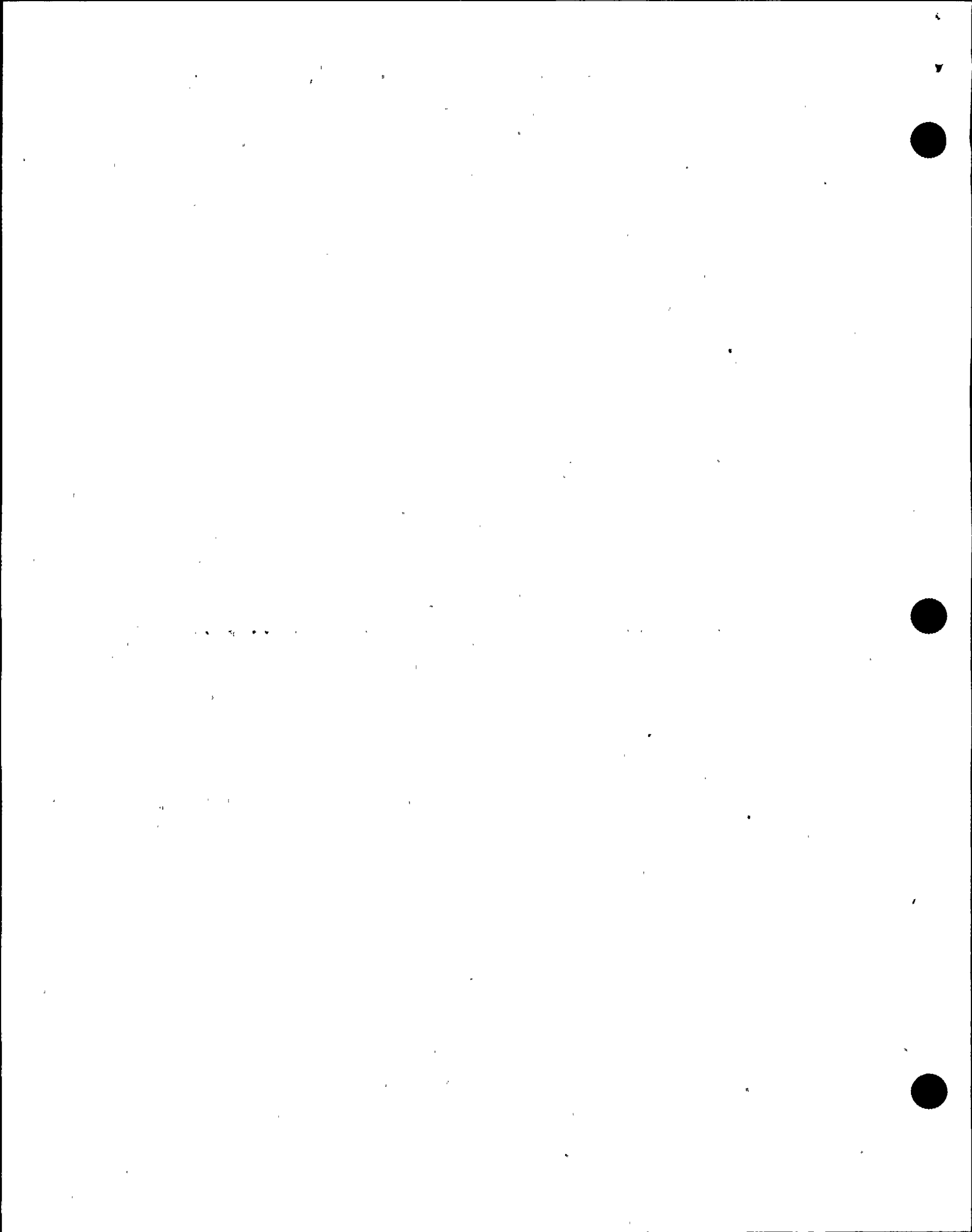




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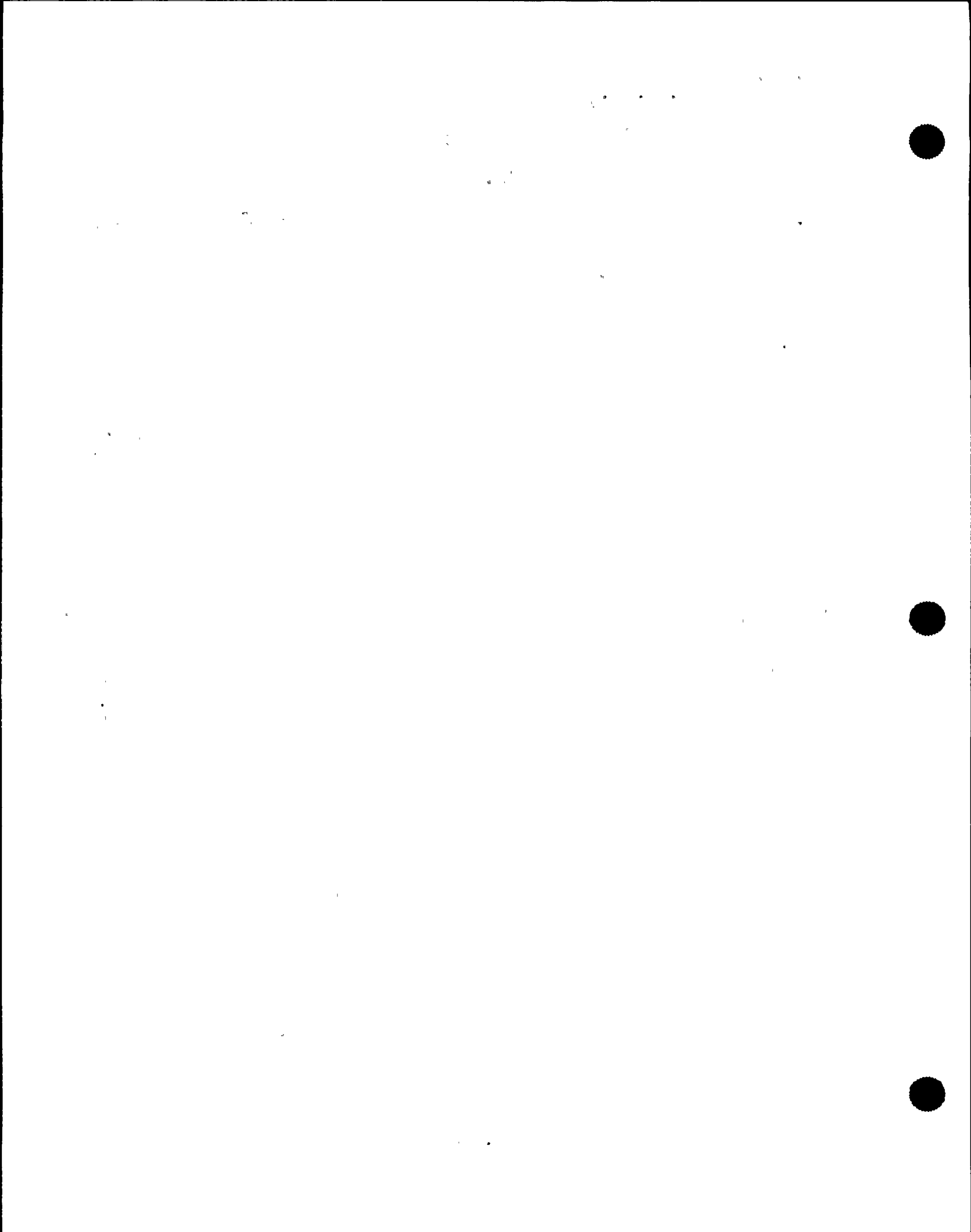
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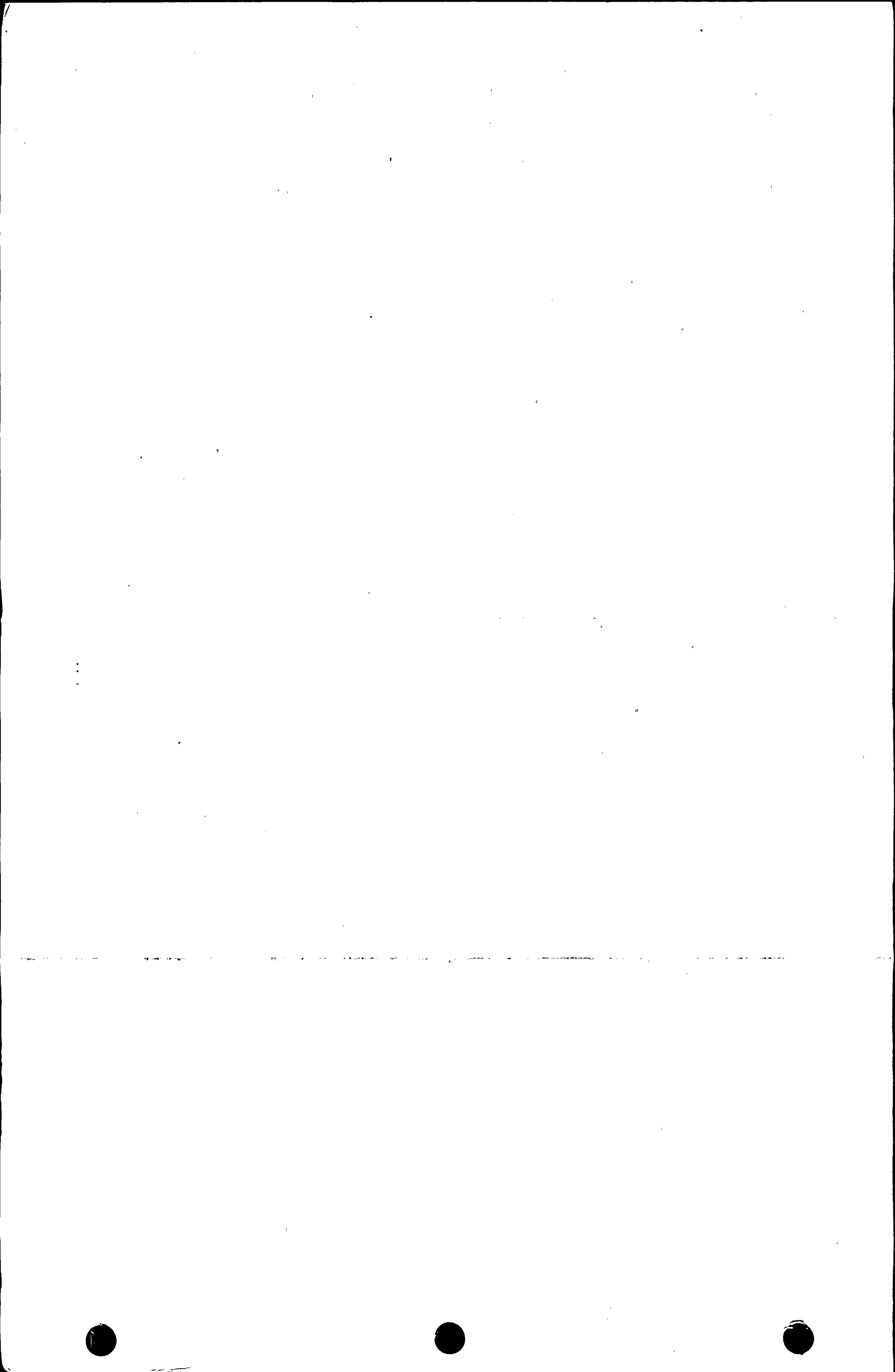
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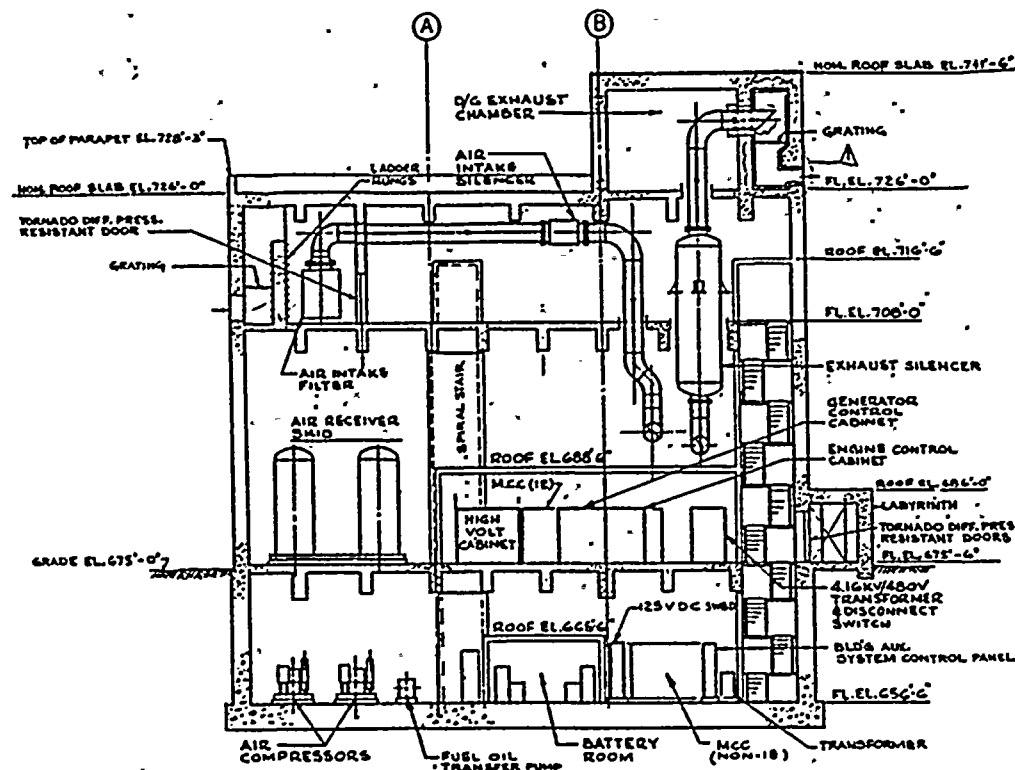
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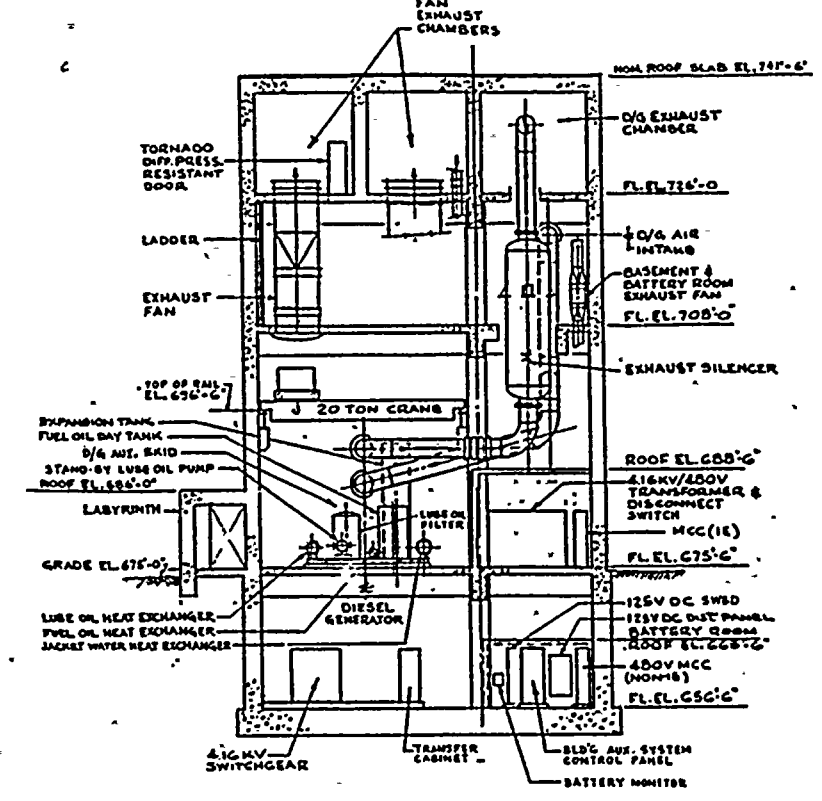




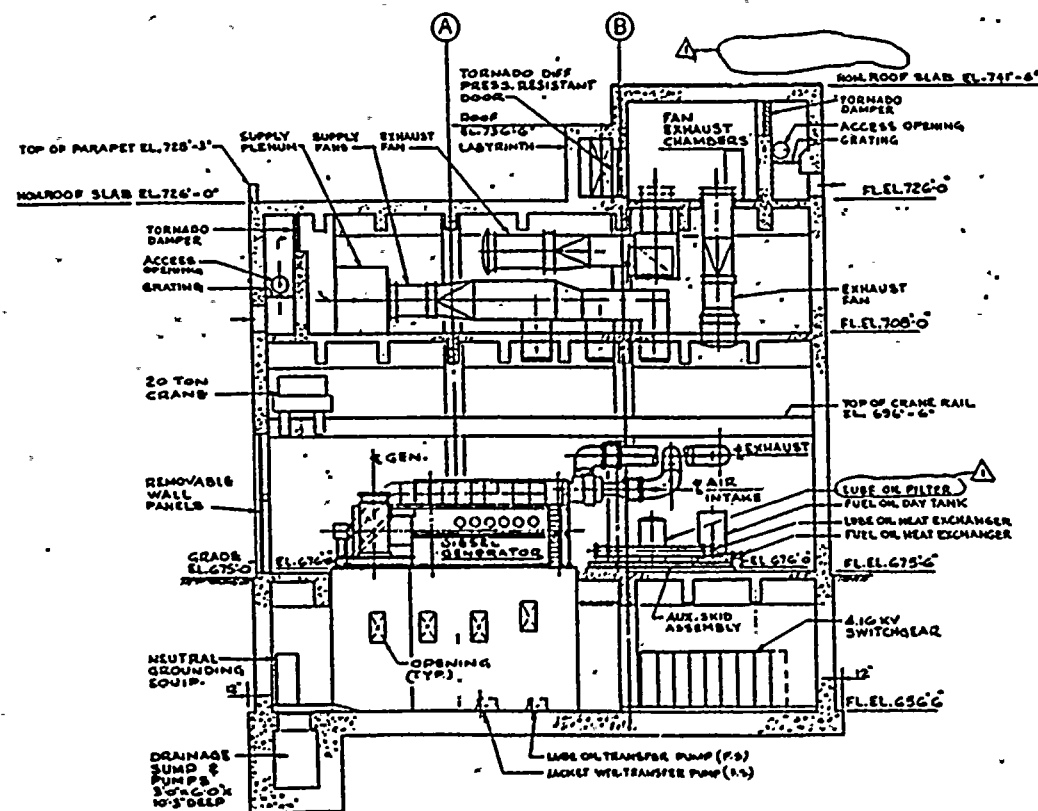




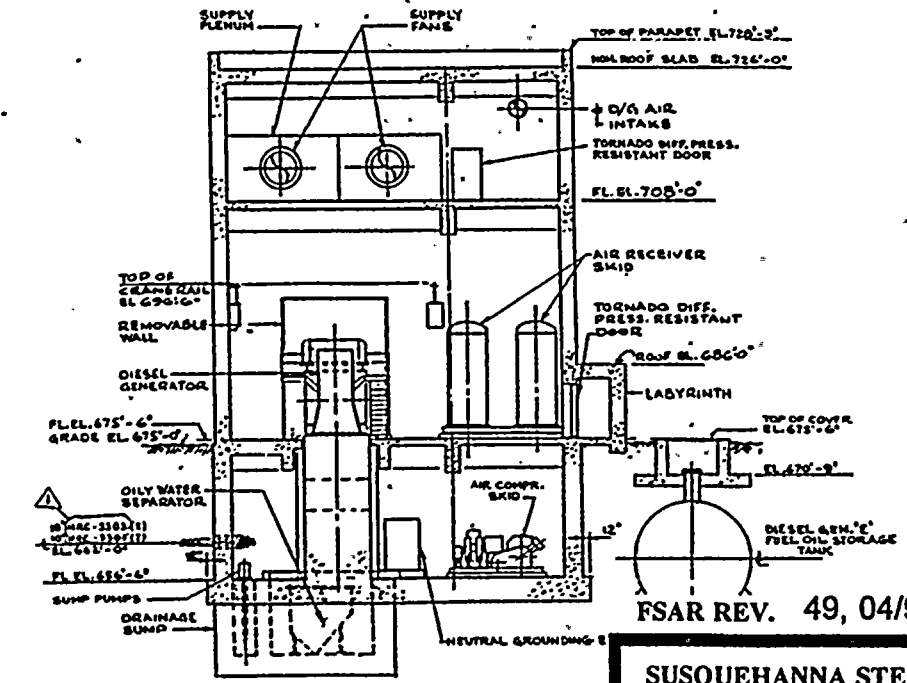
SECTION 1-1



SECTION 3-3



SECTION 2-2



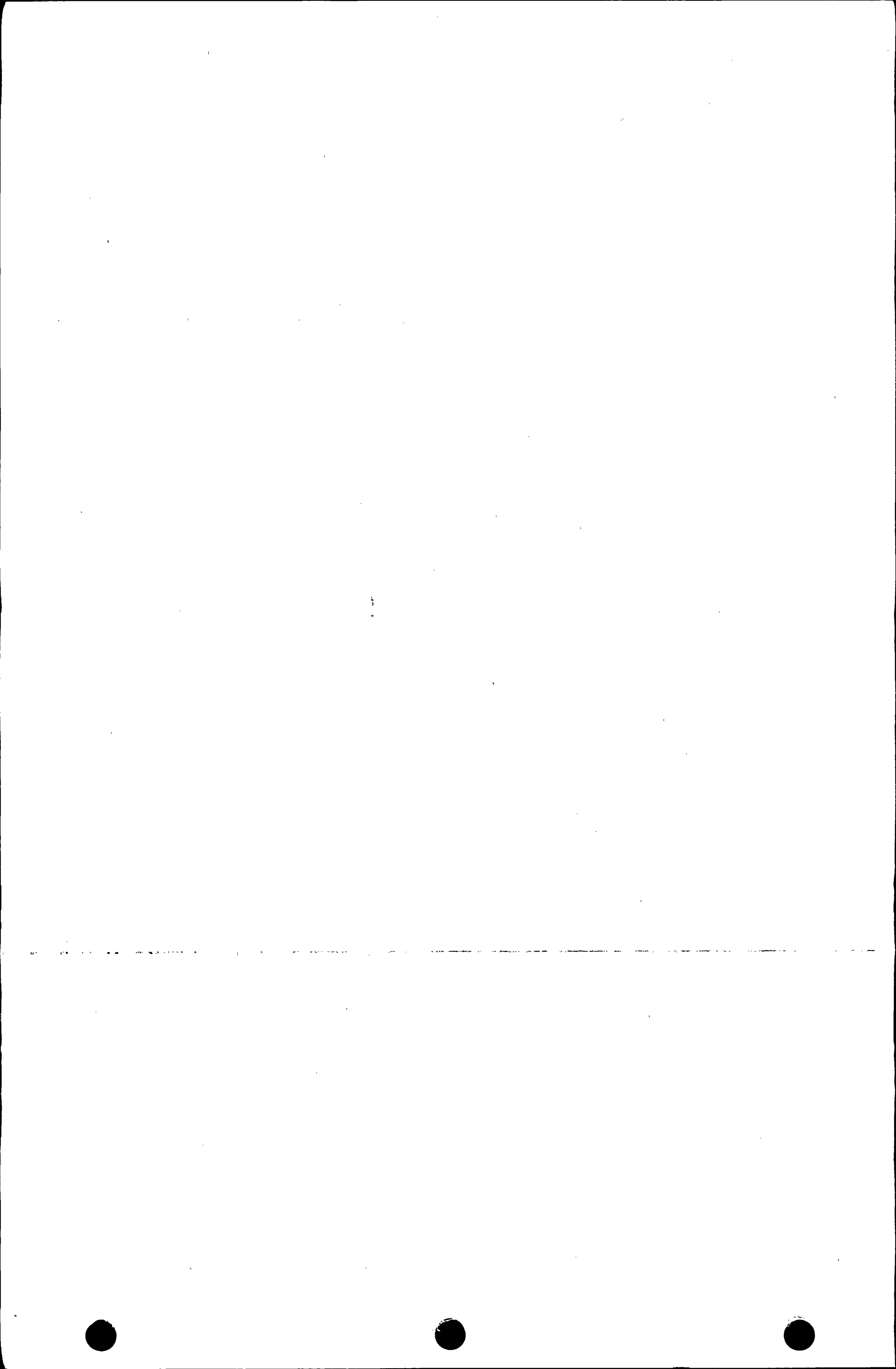
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FSAR REV. 49, 04/96

**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

**DIESEL GENERATOR 'E' BUILDING  
GENERAL ARRANGEMENT SECTIONS**

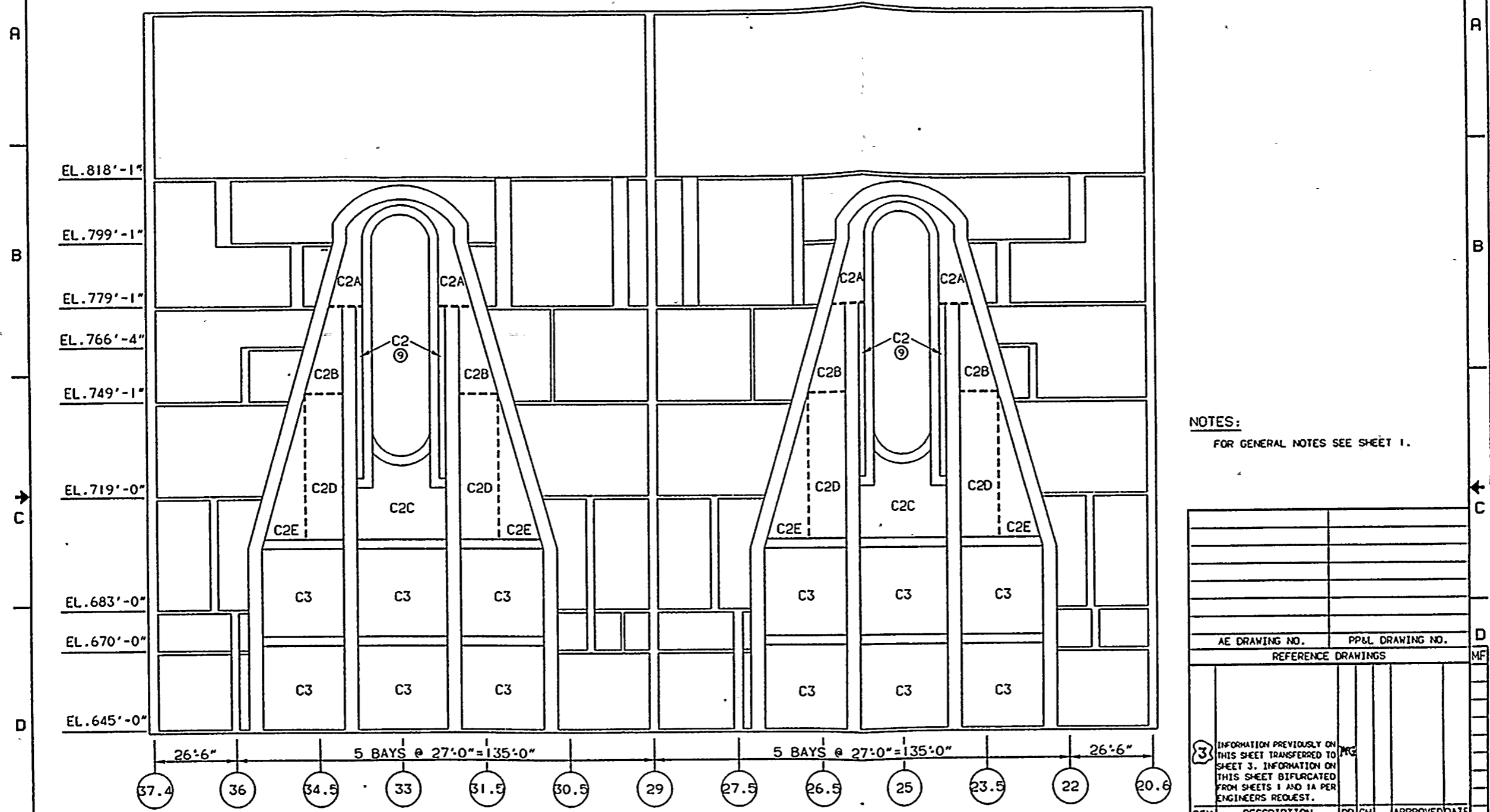
FSAR FIGURE 1.2-50  
PP&L DRAWING E-198216, Sh. 2







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 GROUP = NCIV  
 PP&L FORM 2000 (12/85)



NOTES:  
 FOR GENERAL NOTES SEE SHEET 1.

AE DRAWING NO.	PP&L DRAWING NO.			
REFERENCE DRAWINGS				
③ INFORMATION PREVIOUSLY ON THIS SHEET TRANSFERRED TO SHEET 3. INFORMATION ON THIS SHEET BIFURCATED FROM SHEETS 1 AND 1A PER ENGINEERS REQUEST.				
REV	DESCRIPTION	DR/CH	APPROVED	DATE

PRIMARY CONTAINMENT ENVIRONMENTAL DATA IS SHOWN ON SHEET 1

ZONE	DESCRIPTION	ROOM NUMBER		ELEVATION
		UNIT 1	UNIT 2	
C2	DRYWELL AREA BETWEEN THE REACTOR VESSEL AND THE SHIELD WALL	N/A	N/A	725-779
C2A	DRYWELL AREA ABOVE THE TOP OF THE SHIELD WALL	I-607	II-607	≥779
C2B	DRYWELL AREA FROM THE BOTTOM OF THE ACTIVE CORE REGION TO THE TOP OF THE SHIELD WALL	I-516	II-516	750-779
C2C	DRYWELL AREA BELOW THE REACTOR VESSEL AND WITHIN THE VESSEL SUPPORT	I-206C	II-206C	704-732
C2D	DRYWELL AREA BELOW THE ACTIVE CORE REGION AND WITHIN 15 FEET OF THE REACTOR RECIRCULATION PUMPS	I-206D I-400D	II-206D II-400D	704-719 719-750
C2E	DRYWELL AREA BELOW THE ACTIVE CORE REGION AND GREATER THAN 15 FEET FROM THE REACTOR RECIRCULATION PUMPS	I-206E I-400E	II-206E II-400E	704-719 719-750
C3	SUPPRESSION POOL AREA (WETWELL)	I-018	II-018	645-704

**SUSQUEHANNA STEAM ELECTRIC STATION**  
**UNITS 1 AND 2**  
**FINAL SAFETY ANALYSIS REPORT**

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**PRIMARY CONTAINMENT ZONES**

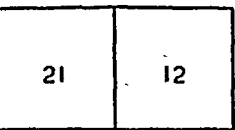
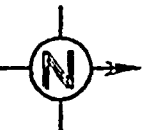
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FSAR FIGURE 3.11-2





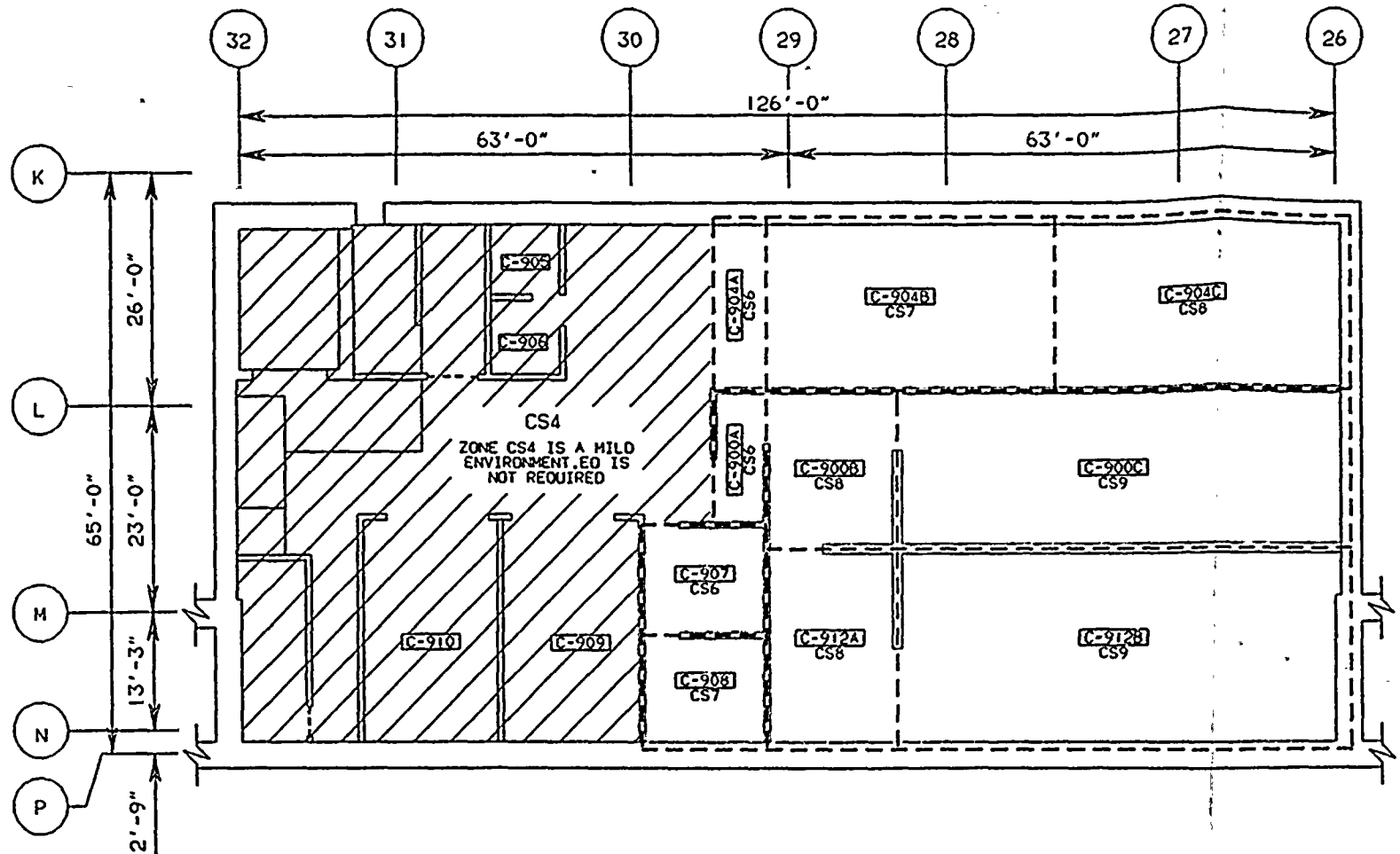
R  
B  
C  
D  
E



UNITS 1 & 2

**NOTES:**

- 1) THE MAXIMUM DOSE RATES AND TIDS CORRESPOND TO THE HIGHEST CONTACT READINGS IN EACH ZONE. SPECIFIC EQUIPMENT MAY BE SUBJECT TO REDUCED EXPOSURES BASED UPON APPROPRIATE ATTENUATION FACTORS.
- 2) INCLUDES THE NORMAL 40 YEAR TID AND THE 180 DAY ACCIDENT TID. AFTER 180 DAYS THE TID IS ESSENTIALLY SATURATED AND WILL NOT INCREASE SIGNIFICANTLY.
- 3) THE BETA DOSE AND DOSE RATE VALUES ARE FOR A SEMI-INFINITE VOLUME.
- 4) DURING DRYWELL PURGING THE MAXIMUM DOSE RATE MAY EXCEED .0025 R/HR TO A MAXIMUM OF .015 R/HR FOR UP TO 4 HOURS. ANY ADDITIONAL DOSE RECEIVED DURING DRYWELL PURGING WILL NOT SIGNIFICANTLY EFFECT THE 40 YEAR TID.



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SUBGROUP ARCHIV

GROUP NCIV

EO ZONE	DESIGN ENVIRONMENT - NORMAL OPERATING CONDITIONS					ACCIDENT CONDITIONS						
	PRESSURE	TEMPERATURE (°F) MIN/MAX	RELATIVE HUMIDITY (X) MIN/MAX	MAX DOSE (R/HR) GAMMA	INTEGRATED DOSE (R) GAMMA	PRESSURE	TEMPERATURE (°F) MIN/MAX	RELATIVE HUMIDITY (X) MIN/MAX	MAX DOSE RATE (R/HR)		TOTAL INTEGRATED DOSE (R)	
CS4	ATMOS	40/104	10/100	.0025	8.8E+2	ATMOS	40/104	10/100	GAMMA ①	BETA ③	GAMMA ①	BETA ③
CS6	ATMOS	40/104	10/100	.0025	8.8E+2	ATMOS	40/104	10/100	6.0E-01	20	1.8E+03	1.0E+3
CS7	ATMOS	40/104	10/100	.0025	8.8E+2	ATMOS	40/104	10/100	1.2E+00	20	2.4E+03	1.0E+3
CS8	ATMOS	40/104	10/100	.0025	8.8E+2	ATMOS	40/104	10/100	1.2E+01	20	1.0E+04	1.0E+3
CS9	ATMOS	40/104	10/100	④ .0025	8.8E+2 ④	ATMOS	40/104	10/100	9.3E+01	20	9.6E+04	1.0E+3
									9.3E+03	20	7.6E+06	1.0E+3

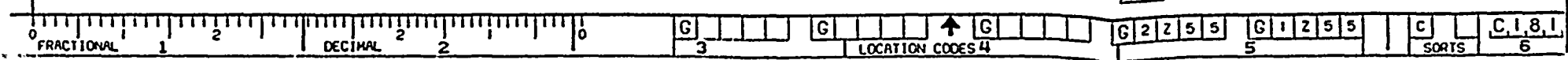
AE DRAWING NO.		PP&L DRAWING NO.	
REFERENCE DRAWINGS			
REV	DESCRIPTION	DR	APPROVED DATE
4	THIS REVISION APPLIES AFTER POWER UPGRADE IMPLEMENTATION FOR UNIT 1 - FOLLOWING U1-GRID UNIT 2 - FOLLOWING U2-GRID	T L H C	

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT ZONES

FSAR FIGURE 3.11-3





GENERAL NOTES FOR SHEETS 5 THRU 12

1. REACTOR BUILDING RELATIVE HUMIDITY VARIES BETWEEN 10 AND 90 PERCENT DURING NORMAL OPERATING CONDITIONS.

2. THE SPECIFIED TEMPERATURES AND PRESSURES ENVELOPE THE CONDITIONS FOR THE ENTIRE RANGE OF POSTULATED ACCIDENTS.

THE MAXIMUM RELATIVE HUMIDITY IN THE REACTOR BUILDING SECONDARY CONTAINMENT IS 90 PERCENT DURING A LOCA. DURING AND FOLLOWING A HELB THE RELATIVE HUMIDITY IN THE AFFECTED ROOMS WILL BE 100 PERCENT (SEE NOTE 9). THE RELATIVE HUMIDITY IN UNAFFECTED ROOMS WILL NOT EXCEED 90 PERCENT.

THERE IS NO PRESSURE TRANSIENT IN SECONDARY CONTAINMENT DUE TO DIRECT EFFECTS OF A LOCA. MINOR PRESSURE CHANGES THAT DO EXIST ARE A RESULT OF VENTILATION LINEUP CHANGES. THE NOMINAL DBA PRESSURE WITHIN THE REACTOR BUILDING SECONDARY CONTAINMENT IS -.25 IN-WG IN ALL AREAS EXCEPT AS FOLLOWS:

- UNIT 1 REMOTE SHUTDOWN ROOM I-109 = -0.30 IN-WG
- UNIT 2 REMOTE SHUTDOWN ROOM II-109 = -0.30 IN-WG
- RECIRCULATION PLENUMS I-701 = -1.50 IN-WG
- I-615 = -1.50 IN-WG

3. THESE AREAS ARE CONSIDERED TO BE HARSH ENVIRONMENTS. HOWEVER, NORMAL AND DBA ENVIRONMENTS HAVE NOT BEEN IDENTIFIED. NO EQUIPMENT WITHIN THE SCOPE OF EDR PROGRAM IS LOCATED WITHIN THESE ROOMS.

4. DURING A LOCA THE SECONDARY CONTAINMENT GENERAL AREA RADIATION LEVELS (BASED ON A NUREG 0588 SOURCE TERM WITH A 1% PER DAY PRIMARY CONTAINMENT LEAK RATE) ARE AS FOLLOWS:

	MAX DOSE RATE (RADS/HR)	TID 180 DAY ACC. + 40 YR NORMAL (RADS)
GAMMA	1.0E+02	1.1E+04
BETA	1.8E+03	3.1E+05

THE PRECEDING GAMMA VALUES ARE SHOWN IN THE TABLE FOR THE GENERAL REACTOR BUILDING AREAS THAT DO NOT CONTAIN CONTAMINATED SYSTEM PIPING. ROOMS THAT CONTAIN CONTAMINATED PIPING EXPERIENCE ADDITIONAL GAMMA EXPOSURE. THE GAMMA DOSE RATES AND TIDS SHOWN FOR THESE ROOMS CORRESPOND TO THE HIGHEST CONTACT READING IN THE ROOM. THE BETA VALUES SHOWN ARE BASED ON A SEMI-INFINITE CLOUD. LISTED VALUES FOR RADIATION WERE DETERMINED IN CALCULATION EC-RADN-1004 AND REFLECT POWER UPRATE. PRE-POWER UPRATE RADIATION VALUES ARE DOCUMENTED IN SEA-ED-025.

5. INCLUDES BOTH THE NORMAL TID AND THE 180 DAY ACCIDENT TID. AFTER 180 DAYS, THE TID IS ESSENTIALLY SATURATED AND WILL NOT INCREASE SIGNIFICANTLY.

6. VALUES GIVEN RESULT FROM A CONTROL ROD DROP ACCIDENT, NOT A LOCA. (REFERENCE FSAR SECTION 3.11.5.3). POST-LOCA GAMMA RADIATION VALUES FOR THESE ZONES ARE AS FOLLOWS (REFERENCE CALCULATION EC-RADN-1004):

	MAX DOSE RATE (RADS/HR) GAMMA	TID GAMMA 180 DAY ACC. + 40 YR NORMAL (RADS)
RIB	7.1E-04	2.7E+06
RIH	4.0E-04	1.5E+06

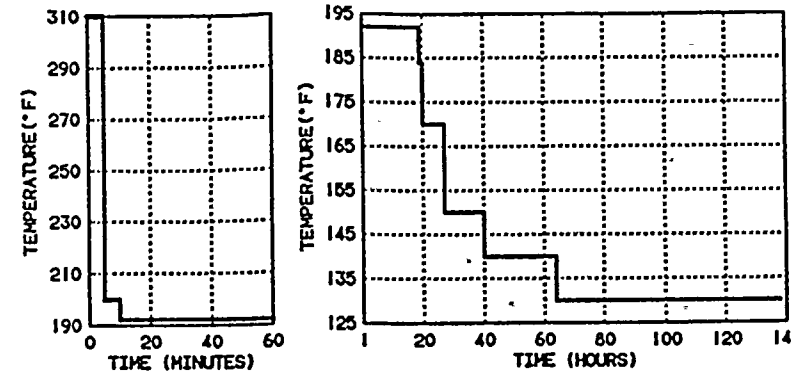
7. MINIMUM NORMAL TEMPERATURE WAS DETERMINED BY CALCULATION M-RAF-043.

8. TEMPERATURE vs TIME PROFILES FOR REACTOR BUILDING ROOMS DURING LOCA CONDITIONS WERE DETERMINED IN COTTAP CALCULATION EC-LOCA-0500. NORMAL AND LOCA MAXIMUM TEMPERATURES ARE SHOWN IN TABLES ON THE FOLLOWING SHEETS. THE MAXIMUM LOCA TEMPERATURES FOR EACH ROOM WERE DETERMINED IN PP&L CALCULATION EC-034-0514 AS FOLLOWS: FOR ROOMS THAT DO NOT HAVE AN EQUIVALENT ROOM IN THE OPPOSITE UNIT, THE MAXIMUM LOCA TEMPERATURE WILL EQUAL THE PEAK TEMPERATURE FROM THE TIME vs TEMPERATURE PROFILE IN CALCULATION EC-LOCA-0500. FOR ROOMS THAT DO HAVE AN EQUIVALENT ROOM IN THE OPPOSITE UNIT, THE HIGHEST PEAK TEMPERATURE FROM THE PROFILES FOR THE TWO ROOMS WILL BE ASSIGNED AS THE MAXIMUM LOCA TEMPERATURES FOR BOTH ROOMS. REFER TO EC-LOCA-0500 AND EC-034-0514 IF THE EXACT TIME vs TEMPERATURE PROFILES ARE REQUIRED.

9. THE ROOMS THAT ARE SUBJECT TO HELB CONDITIONS ARE LISTED BELOW. THE PEAK HELB TEMPERATURE AND PRESSURE FOR EACH ROOM IS LISTED IN THE TABLES ON THE FOLLOWING SHEETS. THE TEMPERATURE AND PRESSURE PROFILE SHOWN BELOW BOUNDS THE CONDITIONS FOR ALL POSTULATED BREAKS AND LEAKS (CRACKS) IN ALL ROOMS. REFER TO SEA-ED-002 FOR ROOM SPECIFIC TEMPERATURE AND PRESSURE PROFILES. HUMIDITY IS ASSUMED TO BE 100% FOR THE ENTIRE DURATION OF A HELB OR LEAK EVENT.

Room	Room	Room	Room	Room	Room
I/II-011	I/II-103	I/II-202	I/II-411	I/II-501	I/II-709
I/II-012	I/II-104	I/II-204	I/II-502	I/II-710	
I/II-013	I/II-106	I/II-205	I/II-503		
I/II-014	I/II-107		I/II-504		
			I/II-505		
			I/II-520		

COMPOSITE HELB AND LEAK PROFILE



TIME	TEMPERATURE (°F)
0 MIN - 5 MIN	310
5 MIN - 10 MIN	200
10 MIN - 19 HRS	192
19 HRS - 20 HRS	184
20 HRS - 27 HRS	170
27 HRS - 40 HRS	150
40 HRS - 64 HRS	140
64 HRS - 138 HRS	130

TIME	PRESSURE (PSIA)
0 MIN - 2 MIN	21.5
2 MIN - 138 HRS	14.7 (ATMOSPHERIC)

10. ACCIDENT SOURCE TERMS ARE THE 50% HALOGENS AND THE 1% SOLIDS OF THE CORE INVENTORY DILUTED BY THE REACTOR COOLANT SYSTEM WATER PLUS THE SUPPRESSION POOL WATER.

11. THE RADIATION LEVELS SPECIFIED IN THE TIP ROOM FOR NORMAL CONDITIONS ARE BASED ON CALCULATION OT-92-DAH-001 WHICH EVALUATED TESTING PERFORMED UNDER TP-288-004. THE SPECIFIED LEVELS CORRESPOND TO THE WORST CASE CONDITIONS FOR EXISTING ED EQUIPMENT. ADDITION OF NEW EQUIPMENT OR RELOCATION OF EXISTING EQUIPMENT WITHIN THE TIP ROOMS WILL REQUIRE ADDITIONAL EVALUATIONS AND/OR TESTING.

12. RADIATION LEVELS FOR THE AREA BETWEEN THE RWCU ROOM CEILING AND THE BOTTOM OF THE ELEVATION 779' FLOOR ARE EXPECTED TO BE HIGHER THAN RIM VALUES AND MAY BE AS HIGH AS THE LEVELS IN THE RWCU ROOMS. THE MOST CONSERVATIVE VALUE HAS BEEN ASSIGNED TO THIS AREA. IF SPECIFIC EXPOSURES ARE NEEDED FOR THIS AREA, ADDITIONAL CALCULATIONS WILL BE REQUIRED. SHIELDING PROVIDED BY STRUCTURES, DUCTING OR RACEWAY IN THIS AREA WAS NOT CONSIDERED WHEN EXPOSURES WERE ASSIGNED.

13. SPENT FUEL POOL BOILING RESULTS IN HIGHER TEMPERATURES NOT EXCEEDING 210°F.

14. THE TABLES ON THE FOLLOWING SHEETS IDENTIFY THE MAXIMUM CALCULATED POST-LOCA TEMPERATURES (SEE NOTE 8). SOME SSES EQUIPMENT MAY BE QUALIFIED FOR POST-LOCA TEMPERATURES GREATER THAN THE IDENTIFIED MAXIMUMS. ACTUAL TEMPERATURES USED FOR EQUIPMENT QUALIFICATION, INCLUDING ANY MARGIN IN EXCESS OF THE MAXIMUM CALCULATED VALUES, ARE IDENTIFIED IN CALCULATION EC-E00L-1002.

15. THE TABLES ON THE FOLLOWING SHEETS IDENTIFY THE MAXIMUM CALCULATED POST-LOCA RADIATION VALUES (SEE NOTE 4.) GENERALLY, THESE RADIATION VALUES HAVE DECREASED AS A RESULT OF THE NEW ANALYSIS PERFORMED FOR POWER UPRATE. THEREFORE, SOME SSES EQUIPMENT MAY BE QUALIFIED FOR POST-LOCA RADIATION VALUES GREATER THAN THOSE IDENTIFIED IN THE TABLES, BASED ON THE HIGHER PRE-UPRATE VALUES.

16. TID: IN AREAS 27, 28, 32, AND 33 OF ELEVATION 719 (ROOMS I-401 AND II-401/ED ZONE R1K) ARE AS DESCRIBED IN NOTE 4 EXCEPT AT LOCATIONS NEAR THE AIRLOCKS (I/II-402). BECAUSE THE TOP SHIELD BLOCKS ARE NOT INSTALLED, EQUIPMENT NEAR THE AIRLOCKS (I/II-402) AND 12 OR MORE FEET ABOVE THE FLOOR MAY BE EXPOSED TO RADIATION STREAMING FROM PRIMARY CONTAINMENT POST-LOCA. THIS IS ACCOUNTED FOR IN CURRENT EQUIPMENT QUALIFICATIONS. NEW EQUIPMENT TO BE LOCATED NEAR THE AIRLOCKS WILL REQUIRE SPECIFIC ANALYSIS. SEE THE DISPOSITION TO EDR 93-118 AND CALCULATION EC-RADN-1015 FOR DETAILS.

AE DRAWING NO.		PP&L DRAWING NO.	
REFERENCE DRAWINGS			
REV	DESCRIPTION	DR/CH	APPROVED/DATE

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT ZONES

FSAR FIGURE 3.11-4

USERID: 03/12/1996 10.11.14  
SUBGROUP: ARCHIV  
GROUP: NCIV  
PP&L FORM 300C (12/91)

FRACTIONAL 1 2 3 4 5 6 DECIMAL 2 2 0

LOCATION CODES 4

2 2 5 5 1 2 5 5

SOFTS C, 1, 8, 1



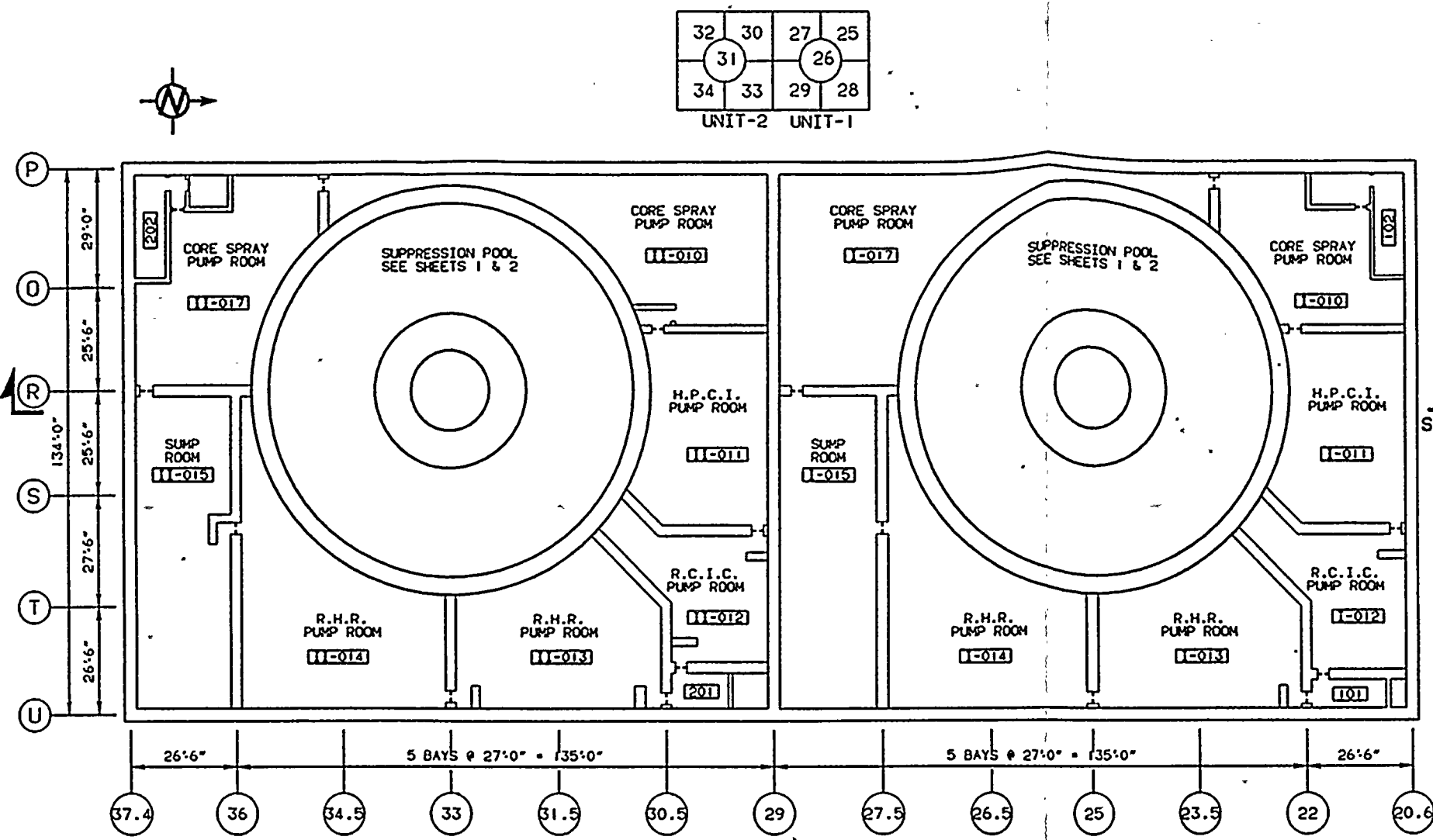
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SUBGROUP ARCHIV

GROUP = NCIV

PAL FOR 300C (12/91)

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SHEET 2

NOTES:  
GENERAL NOTES ARE LOCATED ON SHEET 4.

AE DRAWING NO.		PP&L DRAWING NO.	
REFERENCE DRAWINGS			
THIS REVISION APPLIES AFTER POWER UPRATE IMPLEMENTATION FOR UNIT 1 - FOLLOWING U1-ER10 UNIT 2 - FOLLOWING U2-ER10			
REV	DESCRIPTION	DR/CH	APPROVED/DATE

FSAR REV. 49, 04/96

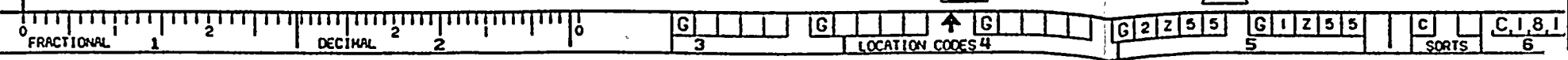
ROOM NO.	DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT ①				ACCIDENT ENVIRONMENTS ② ④ ⑬ ⑭				EQ ZONE	COTTAP		
		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION MAX DOSE RATE (R/HR)	40 YEAR T10 (R)	MAX LOCA TEMP (°F)	MAX HELB PRESS (PSIA)	TEMP (°F)	GAMMA RADIATION DOSE RATE (R/HR)		180 DAY T10 (R)	U1	U2
I-010 / II-010	CORE SPRAY PUMP ROOM	-.375	60/104	0.0025	8.8E+02	137	N/A	N/A	7.1E+04	2.7E+06	RIA	4	94
I-011 / II-011	HPCI PUMP ROOM	-.375	60/100	0.0025	8.8E+02	119	19.0	310	3.1E+03(6)	4.2E+03(6)	RIB	5	96
I-012 / II-012	RCIC PUMP ROOM	-.375	60/104	0.0025	8.8E+02	120	16.0	184	5.3E+03(6)	1.6E+04(6)	RIH	6	97
I-013 / II-013	RHR PUMP ROOM	-.375	60/104	0.1	3.5E+04	125	14.7	180	5.7E+04(6)	2.2E+06(6)	RIG	7	98
I-014 / II-014	RHR PUMP ROOM	-.375	60/104	0.1	3.5E+04	123	14.7	180	5.7E+04(6)	2.2E+06(6)	RIG	8	99
I-015 / II-015	SUMP ROOM	-.250	60/100	0.0025	8.8E+02	125	N/A	N/A	1.0E+02	1.1E+04	RIM	9	100
I-017 / II-017	CORE SPRAY PUMP ROOM	-.375	60/104	0.0025	8.8E+02	124	N/A	N/A	7.1E+04	2.7E+06	RIA	3	95

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT ZONES

FSAR FIGURE 3.11-5

PP&L DRAWING C206130, Sh. 5





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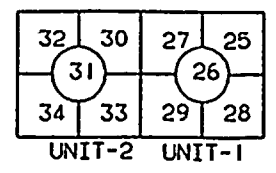
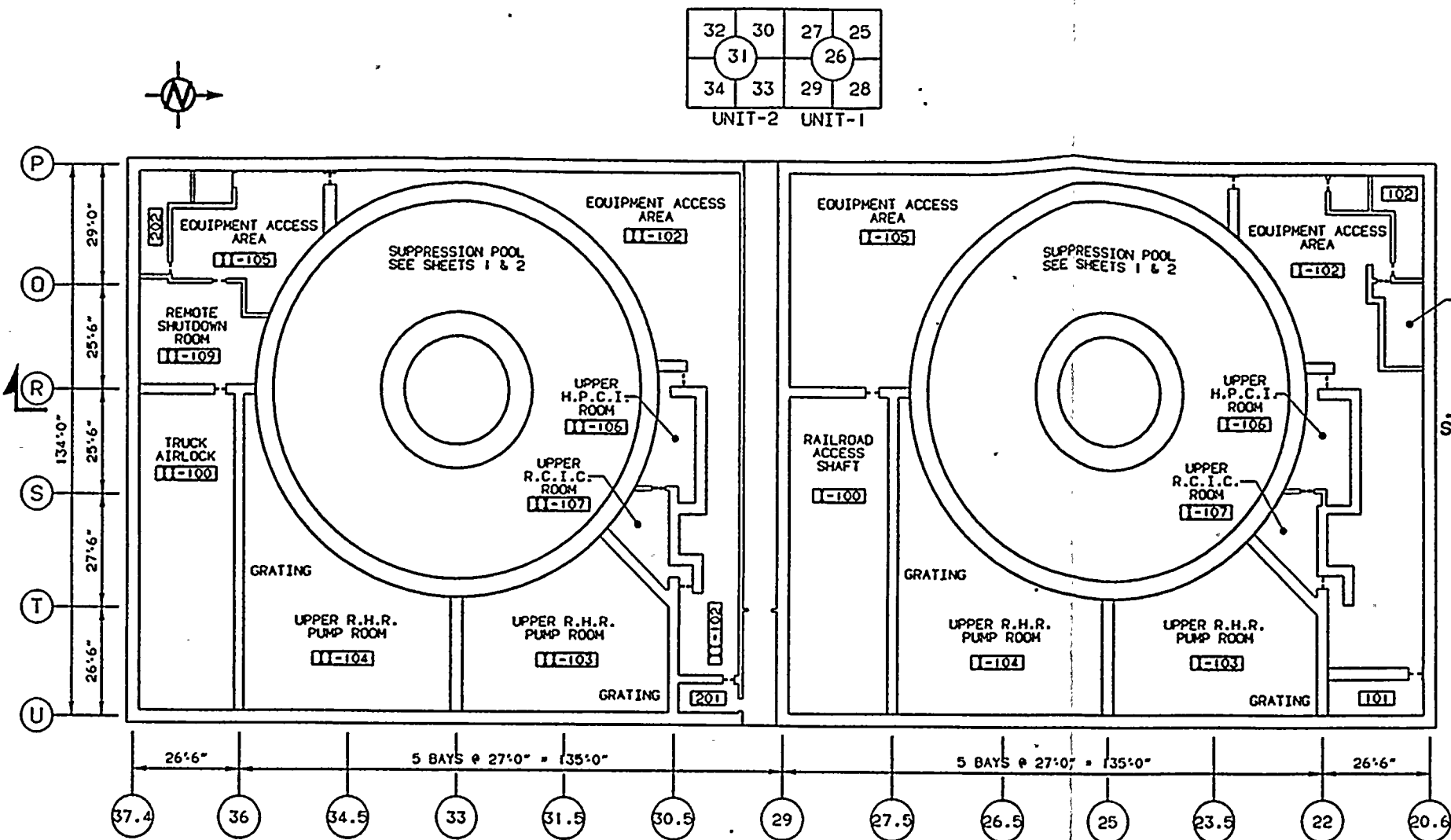
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GROUP= NCIV

FILE FROM 200C 112/91

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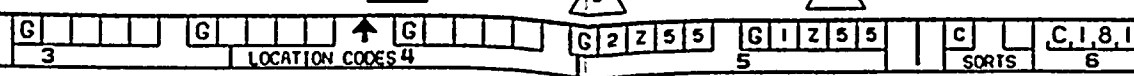
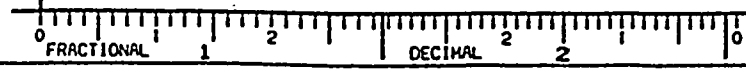


NOTES:  
GENERAL NOTES ARE LOCATED ON SHEET 4.

AE DRAWING NO.		PP&L DRAWING NO.	
REFERENCE DRAWINGS			
THIS REVISION APPLIES AFTER POWER UPRATE IMPLEMENTATION FOR: UNIT 1 - FOLLOWING U1-2810 UNIT 2 - FOLLOWING U2-5810			
REV	DESCRIPTION	DR/CH	APPROVE/DATE

FSAR REV. 49, 04/96

ROOM NO.	DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT ①				ACCIDENT ENVIRONMENTS ② ④ ⑬ ⑮							
		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION MAX DOSE RATE (R/HR)	GAMMA RADIATION 40 YEAR TID (R)	MAX LOCA TEMP (°F)	MAX HELB PRESS (PSIA)	MAX HELB TEMP (°F)	GAMMA RADIATION DOSE RATE (R/HR)	GAMMA RADIATION 180 DAY TID (R)	EO ZONE	COTTAP U1	COTTAP U2
I-100	II-100 RAILROAD / TRUCK ACCESS SHAFT	-.250	60/100	0.0025	8.8E+02	115	N/A	N/A	1.0E+02	1.1E+04	R1H	15	93
I-102	II-102 EQUIPMENT ACCESS AREA	-.250	60/100	0.0025	8.8E+02	119	N/A	N/A	1.0E+02	1.1E+04	R1H	13	90
I-103	II-103 UPPER RHR PUMP ROOM	-.375	60/104	0.1	3.5E+04	125	14.7	180	5.7E+04	2.2E+06	R1G	7	98
I-104	II-104 UPPER RHR PUMP ROOM	-.375	60/104	0.1	3.5E+04	123	14.7	180	5.7E+04	2.2E+06	R1G	8	99
I-105	II-105 EQUIPMENT ACCESS AREA	-.250	60/100	0.0025	8.8E+02	138	N/A	N/A	1.0E+02	1.1E+04	R1H	12	91
I-106	II-106 UPPER HPCI PUMP ROOM	-.375	60/100	0.0025	8.8E+02	119	19.0	310	3.1E+03	4.2E+03	R1H	5	96
I-107	II-107 UPPER RCIC PUMP ROOM	-.375	60/104	0.0025	8.8E+02	120	16.0	184	5.3E+03	1.6E+04	R1H	6	97
I-109	II-109 REMOTE SHUTDOWN ROOM	-.250	60/100	0.0025	8.8E+02	126	N/A	N/A	2.0E+01	2.8E+03	R1P	14	92



**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

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**PRIMARY CONTAINMENT ZONES**

FSAR FIGURE 3.11-6



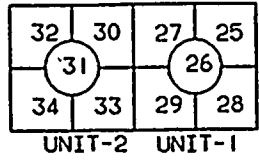
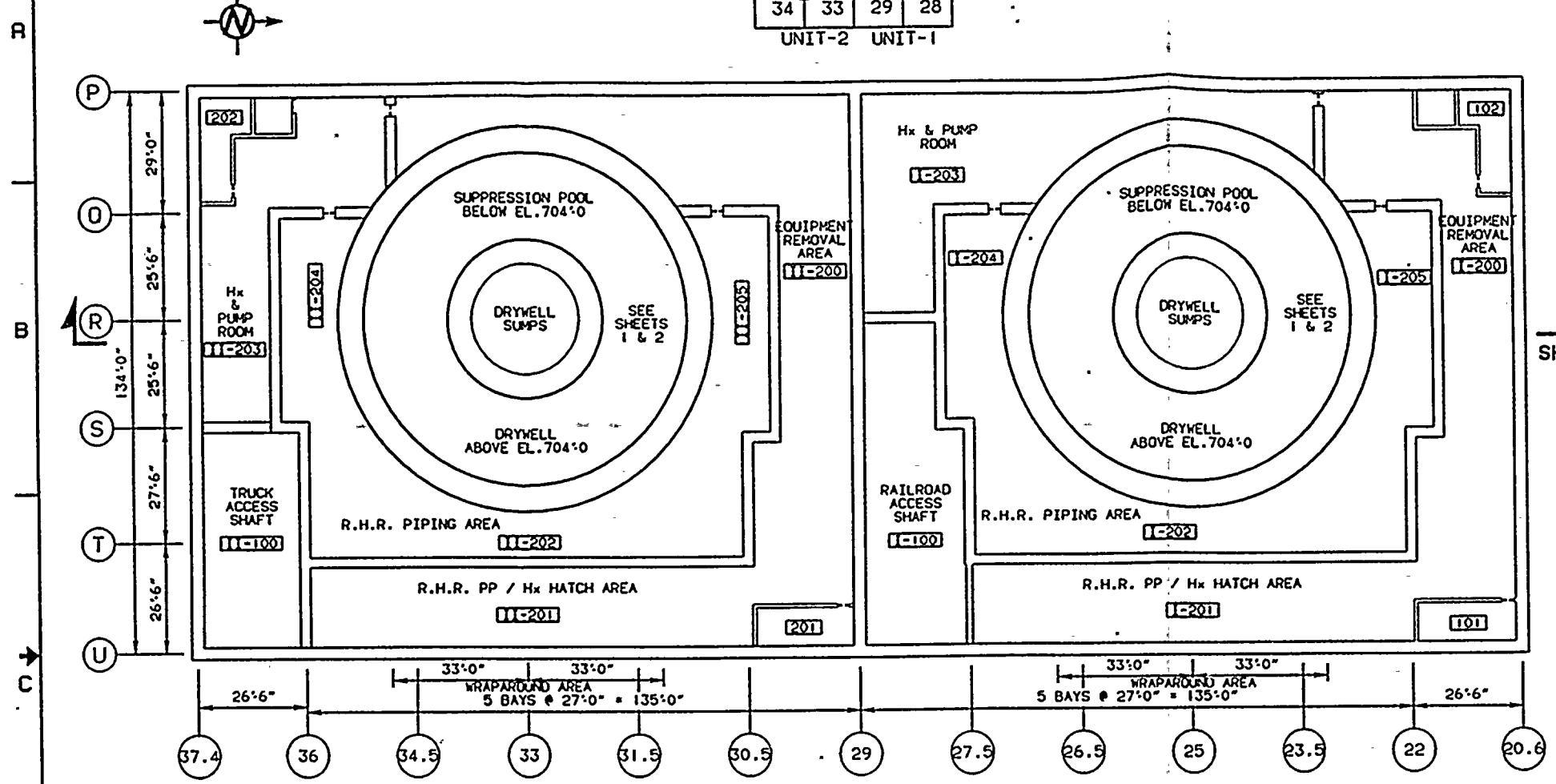


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SUBGROUP= ARCHIV

GROUP= NCIV

PP&L FORM 350C (12/81)



SHEET 2

NOTES:  
GENERAL NOTES ARE LOCATED ON SHEET 4.

AE DRAWING NO.		PP&L DRAWING NO.	
REFERENCE DRAWINGS			
REV	DESCRIPTION	DATE	BY
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FSAR REV. 49, 04/96

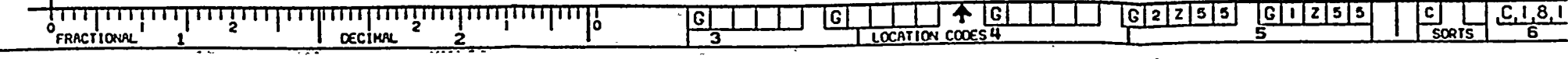
ROOM NO.	DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT ①				ACCIDENT ENVIRONMENTS ② ④ ⑬ ⑮						EQ ZONE	COTTAP	
		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION MAX DOSE RATE (R/HR)	GAMMA RADIATION 40 YEAR TID (R)	MAX LOCA TEMP (°F)	MAX HELB (°F)	TEMP (°F)	GAMMA RADIATION DOSE RATE (R/HR)	GAMMA RADIATION 180 DAY TID (R)	U1		U2	
I-100 II-100	RAILROAD / TRUCK ACCESS SHAFT	-.250	60/100	0.0025	8.8E+02	115	N/A	N/A	1.0E+02	1.1E+04	RIM	15	93	
I-200 II-200	EQUIPMENT REMOVAL AREA	-.250	60/100	0.0025	8.8E+02	114	N/A	N/A	1.0E+02	1.1E+04	RIM	17	88	
I-201 II-201	RHR PP/Hx HATCH AREA	-.250	60/100	0.0025	8.8E+02	114	N/A	N/A	1.0E+02	1.1E+04	RIM	17	88	
I-202 II-202	RHR PIPING AREA	-.375	60/115	0.1	3.5E+04	130	17.0	280	5.8E+03	2.2E+06	RIC	18	89	
I-203 II-203	Hx AND PUMP ROOM	-.250	60/100	0.0025	8.8E+02	123	N/A	N/A	1.0E+02	1.1E+04	RIM	16	87	
I-204 II-204	RHR PIPING AREA	-.375	60/115	0.1	3.5E+04	130	17.0	280	5.8E+03	2.2E+06	RIC	18	89	
I-205 II-205	RHR PIPING AREA	-.375	60/115	0.1	3.5E+04	130	17.0	280	5.8E+03	2.2E+06	RIC	18	89	

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT ZONES

FSAR FIGURE 3.11-7

PP&L DRAWING C206130, Sh. 7





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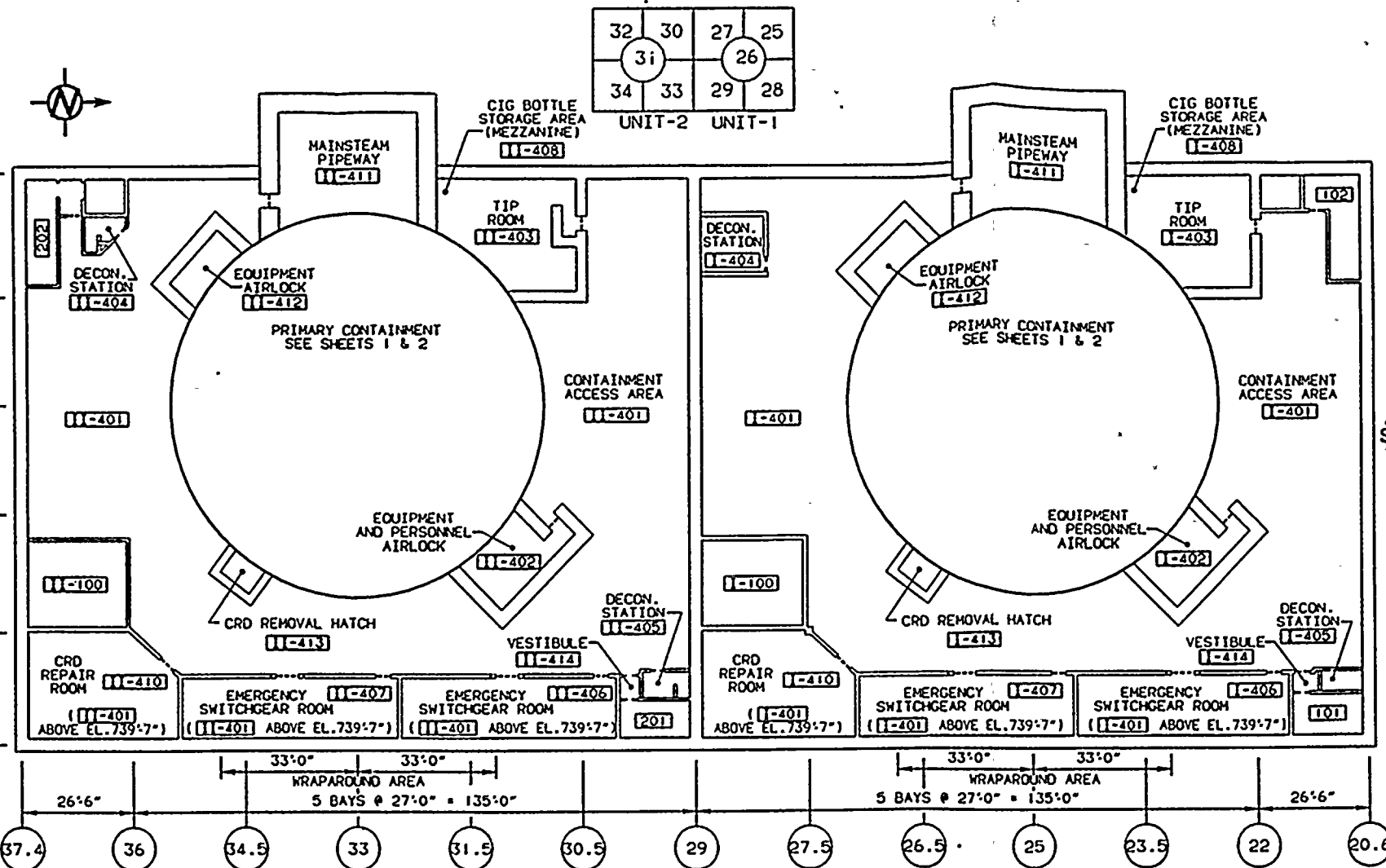
SUBGROUP ARCHIV

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PP&L FORM 250C (12/81)

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NOTES:  
GENERAL NOTES ARE LOCATED ON SHEET 4.

ROOM NO.	DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT ①				ACCIDENT ENVIRONMENTS ② ④ ④A ⑤				EQ ZONE	COTTAP		
		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION MAX DOSE RATE (R/HR)	40 YEAR TID (R)	MAX HELB ⑧	MAX HELB ⑨	GAMMA RADIATION DOSE RATE (R/HR)	180 DAY TID (R)		U1	U2	
I-100 / II-100	RAILROAD / TRUCK ACCESS SHAFT	-.250	60/100	0.0025	8.8E+02	115	N/A	N/A	1.0E+02	1.1E+04	RIM	15	93
I-401 / II-401	CONTAINMENT ACCESS AREA	-.250	60/100	0.0025	8.8E+02	112	N/A	N/A	(19)	(19)	RIK	19	81
I-402 / II-402	EQUIPMENT AND PERSONNEL AIRLOCK	(3)	(3)	(3)	(3)	112	N/A	N/A	(3)	(3)	(3)	19	81
I-403 / II-403	TIP ROOM	-.250	60/104	100 (1)	4.7E+04(1)	113	N/A	N/A	1.0E+02	5.7E+04	RIT	20	82
I-404 / II-404	DECON STATION	-.250	60/100	0.0025	8.8E+02	112	N/A	N/A	1.0E+02	1.1E+04	RIM	19	81
I-405 / II-405	DECON STATION	-.250	60/100	0.0025	8.8E+02	112	N/A	N/A	1.0E+02	1.1E+04	RIM	19	81
I-406 / II-406	EMERGENCY SWITCHGEAR ROOM	-.125	55/92(7)	0.0025	8.8E+02	101	N/A	N/A	1.0E+02	1.1E+04	RIT	21	83
I-407 / II-407	EMERGENCY SWITCHGEAR ROOM	-.125	55/92(7)	0.0025	8.8E+02	103	N/A	N/A	1.0E+02	1.1E+04	RIT	22	84
I-408 / II-408	CIG BOTTLE STORAGE AREA	-.250	60/100	0.0025	8.8E+02	112	N/A	N/A	1.0E+02	1.1E+04	RIK	19	81
I-410 / II-410	CRD REPAIR ROOM	-.250	60/100	0.0025	8.8E+02	109	N/A	N/A	1.0E+02	1.1E+04	RIM	23	85
I-411 / II-411	MAIN STEAM PIPEWAY	-.375	40/130	5	1.8E+06	130	21.2	290	7.1E+04	4.5E+06	R3	24	86
I-412 / II-412	EQUIPMENT AIRLOCK	(3)	(3)	(3)	(3)	112	N/A	N/A	(3)	(3)	(3)	19	81
I-413 / II-413	CRD REMOVAL HATCH	(3)	(3)	(3)	(3)	112	N/A	N/A	(3)	(3)	(3)	19	81
I-414 / II-414	VESTIBULE	-.250	60/100	0.0025	8.8E+02	112	N/A	N/A	1.0E+02	1.1E+04	RIM	19	81

5 REVIS TO COMPLETE LD CORRECTIVE ACTION FOR EDR 93-118.

FSAR REV. 49, 04/96

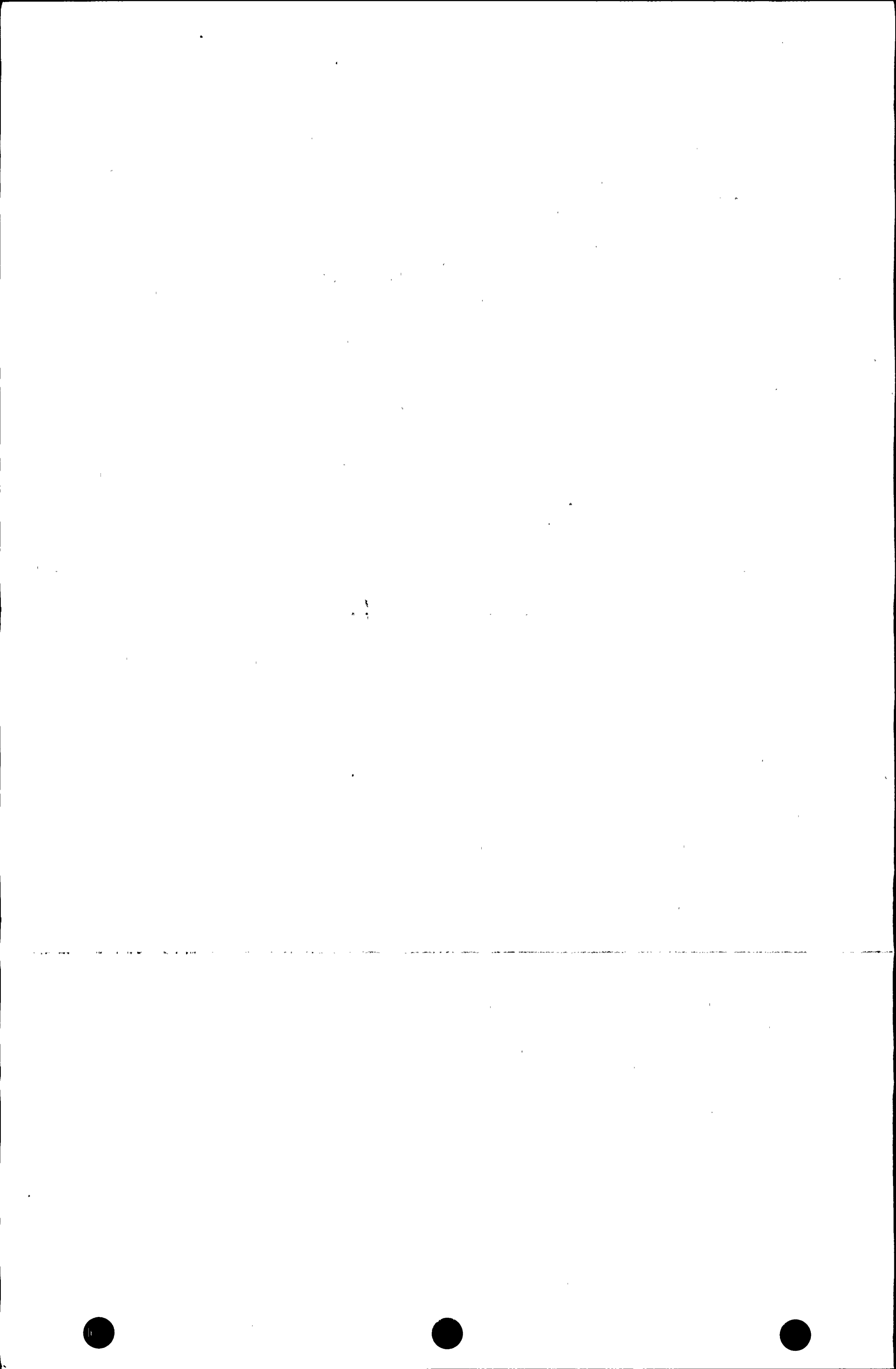
SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

PRIMARY CONTAINMENT ZONES

FSAR FIGURE 3.11-8

PP&L DRAWING C206130, Sh. 8





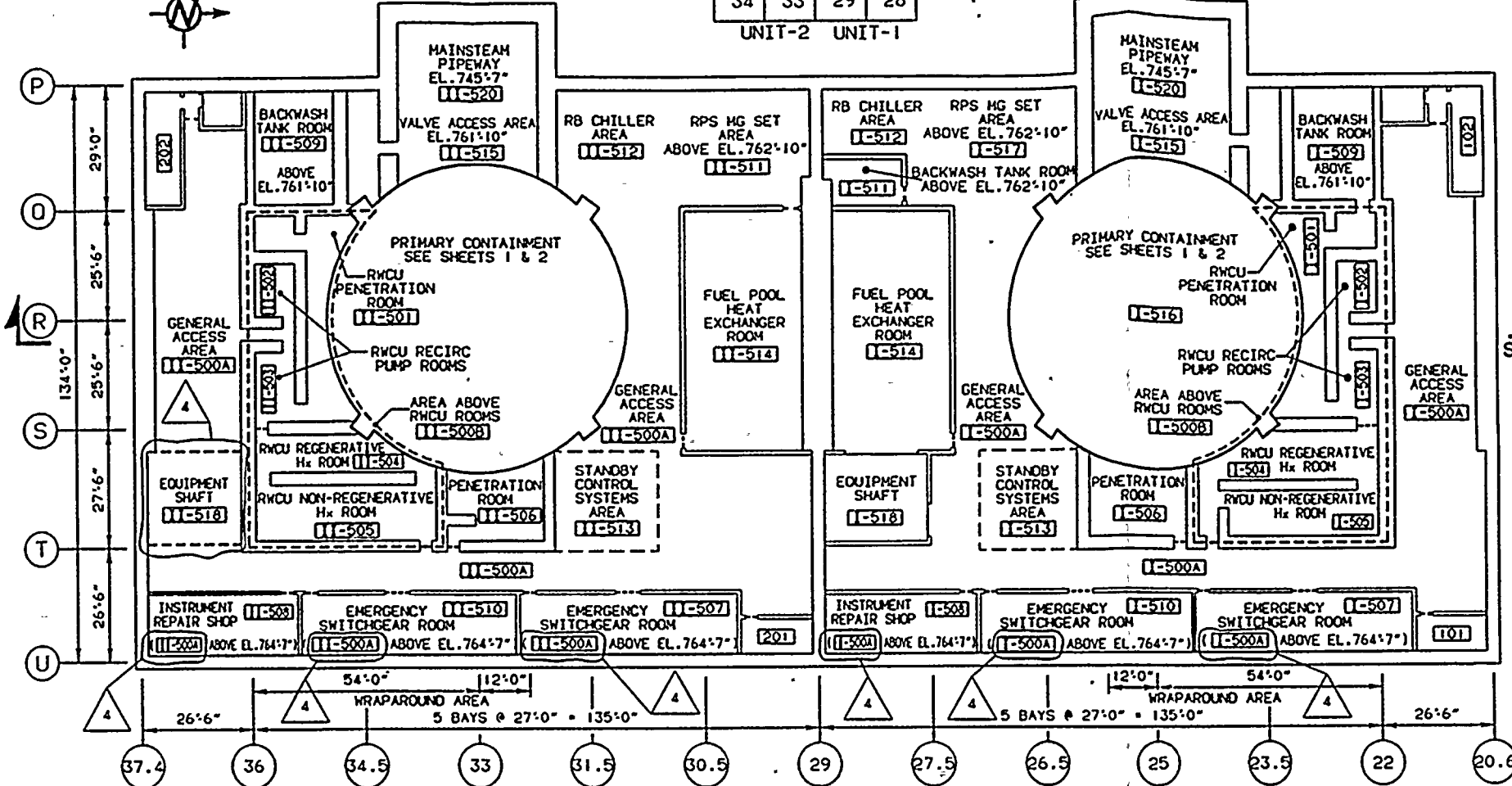
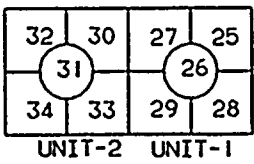
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SUBGROUP\* ARCHIV

GROUP\* NCIV

PP&L FORM 3205C (12/89)



SHEET 2

**NOTES:**

GENERAL NOTES ARE LOCATED ON SHEET 4.

ROOM NO.		DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT (1)				ACCIDENT ENVIRONMENTS (2) (4) (14) (15)					EQ ZONE	COTTAP	
UNIT 1	UNIT 2		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION		MAX LOCA TEMP (°F)	MAX HELB (9)		GAMMA RADIATION			U1	U2
					MAX DOSE RATE (R/HR)	40 YEAR TID (R)		PRESS (PSIA)	TEMP (°F)	DOSE RATE (R/HR)	180 DAY TID (R)			
I-500A	II-500A	GENERAL ACCESS AREA	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIM	25	71
I-500B	II-500B	ABOVE RWCU ROOMS (EL.766)	-.250	60/100	15 (3)	5.3E+06(2)	113	N/A	N/A	1.0E+02(2)	5.3E+06(2)	RIR	25	71
I-501	II-501	RWCU PENETRATION ROOM	-.375	60/104	10	3.5E+06	123	16.9	220	1.0E+02	3.5E+06	RIE	26	72
I-502	II-502	RWCU RECIRC PUMP ROOM	-.375	60/104	10	3.5E+06	123	16.7	162	1.0E+02	3.5E+06	RIE	26	72
I-503	II-503	RWCU RECIRC PUMP ROOM	-.375	60/104	10	3.5E+06	123	16.7	162	1.0E+02	3.5E+06	RIE	26	72
I-504	II-504	RWCU REGENERATIVE Hx ROOM	-.375	60/110	15	5.3E+06	124	16.7	164	1.0E+02	5.3E+06	RID	27	73
I-505	II-505	RWCU NON-REGENERATIVE Hx ROOM	-.375	60/110	15	5.3E+06	124	16.7	164	1.0E+02	5.3E+06	RID	27	73
I-506	II-506	PENETRATION ROOM	-.375	60/110	0.1	3.5E+04	133	N/A	N/A	6.2E+04	2.1E+06	RIJ	28	74
I-507	II-507	EMERGENCY SWITCHGEAR ROOM	-.125	55/92	0.0025	8.8E+02	103	N/A	N/A	1.0E+02	1.1E+04	RII	29	75
I-508	II-508	INSTRUMENT REPAIR SHOP	-.250	60/100	0.0025	8.8E+02	109	N/A	N/A	1.0E+02	1.1E+04	RIM	31	77
I-509	II-509	BACKWASH TANK RM (ABOVE EL.7611)	-.375	60/104	10	3.5E+06	120	N/A	N/A	1.0E+02	3.5E+06	RIF	33	79
I-510	II-510	EMERGENCY SWITCHGEAR ROOM	-.125	55/92	0.0025	8.8E+02	102	N/A	N/A	1.0E+02	1.1E+04	RII	30	76
I-511	II-511	FUEL POOL BACKWASH TANK ROOM	(3)	(3)	(3)	(3)	114	N/A	N/A	(3)	(3)	(3)	35	
	II-511	RPS MG SET AREA (ABOVE EL.762)	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIM		71
I-512	II-512	RB CHILLER AREA	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIM	25	71
I-513	II-513	STANDBY LIQUID CONTROL AREA	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIN	25	71
I-514	II-514	FUEL POOL Hx ROOM	(3)	(3)	(3)	(3)	127	N/A	N/A	(3)	(3)	(3)	32	78
I-515	II-515	VALVE ACCESS AREA	-.375	60/110	0.1	3.5E+04	135	N/A	N/A	6.2E+04	2.1E+06	RIJ	34	80
I-517		RPS MG SET AREA (ABOVE EL.762)	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIM		25
I-518		EQUIPMENT SHAFT / CRANE BAY	-.250	60/100	0.0025	8.8E+02	115	N/A	N/A	1.0E+02	1.1E+04	RIM		15
	II-518	EQUIPMENT SHAFT / CRANE BAY	-.250	60/100	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	RIM		71
I-520	II-520	MAIN STEAM PIPEWAY	-.375	40/130	5	1.8E+06	130	21.2	280	7.1E+04	4.5E+06	R3	24	86

REV	DESCRIPTION	DR/CH	APP'D	DATE

AE DRAWING NO.      PP&L DRAWING NO.

REFERENCE DRAWINGS

THIS REVISION APPLIES AFTER POWER UPRATE IMPLEMENTATION FOR UNIT 1 - FOLLOWING U1-ERIC UNIT 2 - FOLLOWING U2-ERIC

FSAR REV. 49, 04/96

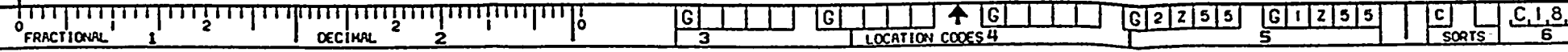
**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

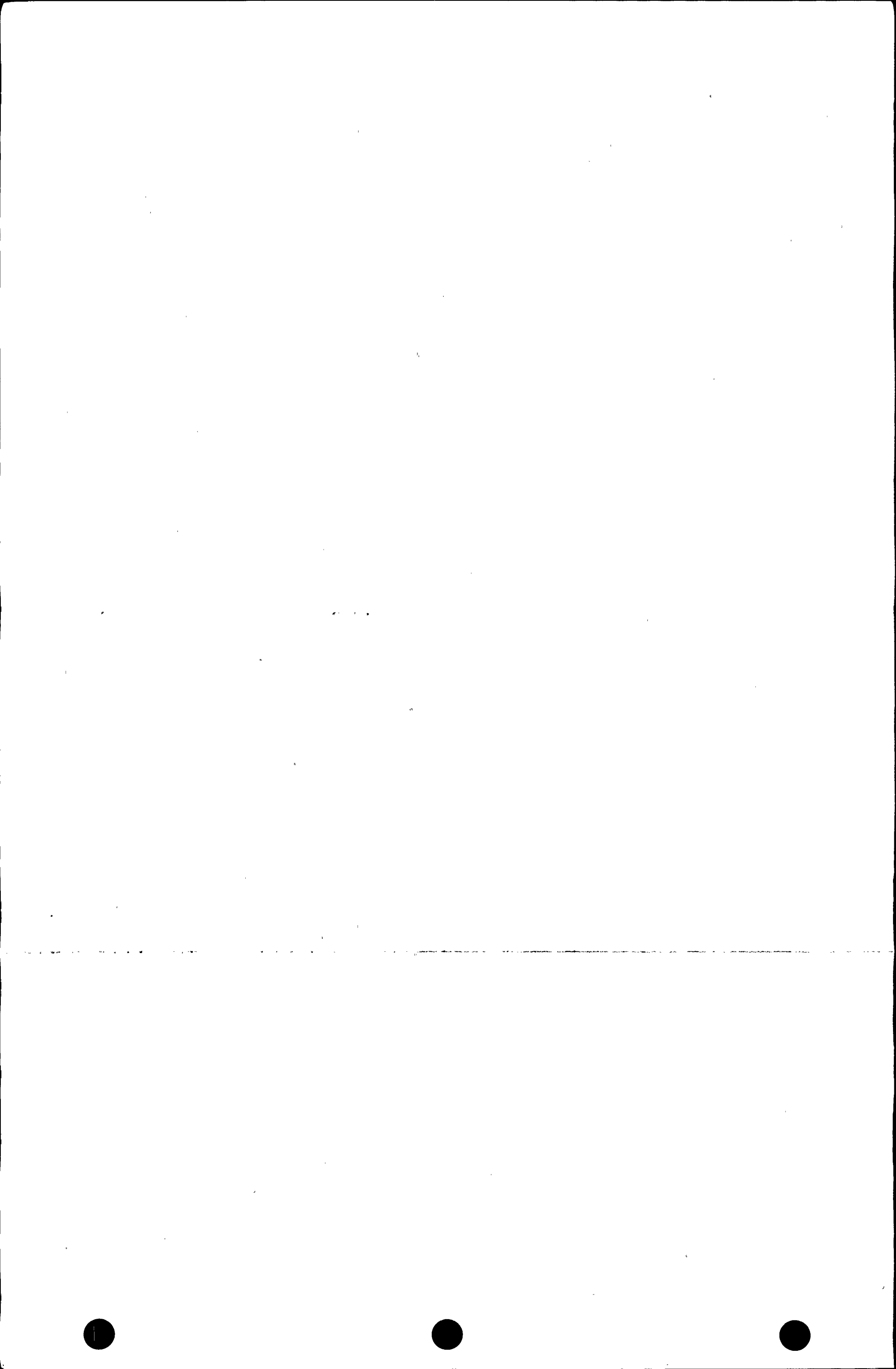
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**PRIMARY CONTAINMENT ZONES**

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FSAR FIGURE 3.11-9



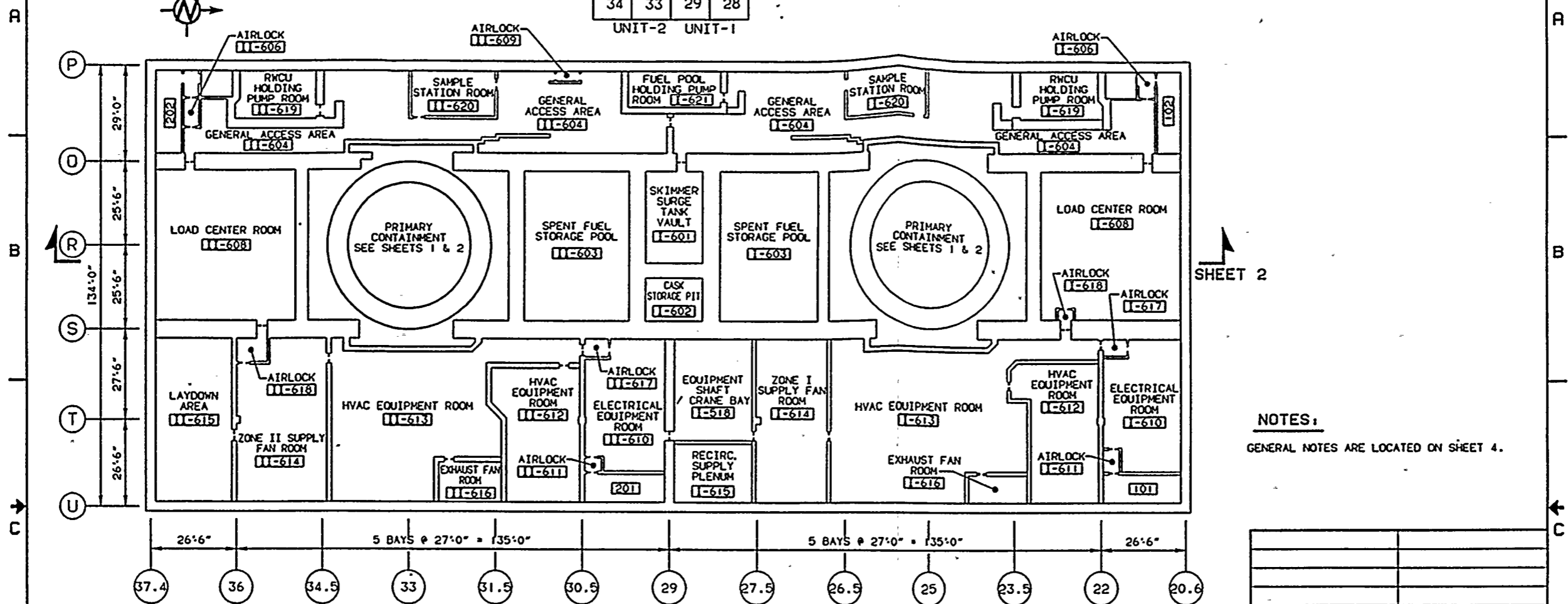


03/12/1996 10:31:46 USERID=

SUBGROUP= ARCHIV

GROUP= NCIV

PP&L FORM 3506 (12/81)



SHEET 2

NOTES:  
GENERAL NOTES ARE LOCATED ON SHEET 4.

ROOM NO.	DESCRIPTION	NORMAL OPERATING CONDITION ENVIRONMENT ①				ACCIDENT ENVIRONMENTS ② ③ ④ ⑤					EQ ZONE	COTTAP	
		PRESS (INWG)	TEMP (°F) MIN/MAX	GAMMA RADIATION MAX DOSE RATE (R/HR)	GAMMA RADIATION 40 YEAR TID (R)	MAX LOCA TEMP (°F)	MAX HELB PRESS (PSIA)	MAX HELB TEMP (°F)	GAMMA RADIATION DOSE RATE (R/HR)	GAMMA RADIATION 180 DAY TID (R)		U1	U2
I-518	EQUIPMENT SHAFT / CRANE BAY	- .250	60/100	0.0025	8.8E+02	115	N/A	N/A	1.0E+02	1.1E+04	R1H	15	
I-601	SKIMMER SURGE TANK VAULT	(3)	(3)	(3)	(3)	145	N/A	N/A	(3)	(3)	(3)	46	
I-602	CASK STORAGE PIT	(3)	(3)	(3)	(3)	121	N/A	N/A	(3)	(3)	(3)	55	
I-603	II-603 SPENT FUEL POOL	(3)	(3)	(3)	(3)	121	N/A	N/A	(3)	(3)	(3)	55	55
I-604	II-604 GENERAL ACCESS AREA	- .250	60/100	0.0025	8.8E+02	120	N/A	N/A	1.0E+02	1.1E+04	R1H	36	61
I-606	II-606 AIRLOCK	- .250	60/100	0.0025	8.8E+02	120	N/A	N/A	1.0E+02	1.1E+04	R1H	39	64
I-608	II-608 LOAD CENTER ROOM	- .250	60/100	0.0025	8.8E+02	139	N/A	N/A	1.0E+02	1.1E+04	R1H	36	61
	II-609 AIRLOCK	- .250	60/100	0.0025	8.8E+02	120	N/A	N/A	1.0E+02	1.1E+04	R1H		61
I-610	II-610 ELECTRICAL EQUIPMENT ROOM	- .250	60/100	0.0025	8.8E+02	111	N/A	N/A	1.0E+02	1.1E+04	R1H	40	65
I-611	II-611 AIRLOCK	- .250	60/100	0.0025	8.8E+02	102	N/A	N/A	1.0E+02	1.1E+04	R1H	11	102
I-612	II-612 HVAC EQUIPMENT ROOM	.000	40/104	0.0025	8.8E+02	113	N/A	N/A	1.0E+02	1.1E+04	R4	41	66
I-613	II-613 HVAC EQUIPMENT ROOM	.000	40/104	0.0025	8.8E+02	133	N/A	N/A	1.0E+02	1.1E+04	R4	43	68
I-614	II-614 ZONE I/II SUPPLY FAN ROOM	.090	40/104	0.0025	8.8E+02	130	N/A	N/A	1.0E+02	1.1E+04	R4	44	69
I-615	RECIRCULATION SUPPLY PLENUM	ATMOS	40/104	0.0025	8.8E+02	118	N/A	N/A	1.0E+02	1.1E+04	R2		45
	II-615 LAYDOWN AREA	- .250	60/100	.0025	8.8E+02	130	N/A	N/A	1.0E+02	1.1E+04	R1H		70
I-616	II-616 EXHAUST FAN ROOM	.000	40/104	0.0025	8.8E+02	104	N/A	N/A	1.0E+02	1.1E+04	R4	42	67
I-617	II-617 AIRLOCK	- .250	60/100	0.0025	8.8E+02	111	N/A	N/A	1.0E+02	1.1E+04	R1H	40	65
I-618	II-618 AIRLOCK	- .250	60/100	0.0025	8.8E+02	139	N/A	N/A	1.0E+02	1.1E+04	R1H	39	64
I-619	II-619 RWCU HOLDING PUMP ROOM	- .375	60/104	10	3.5E+06	120	N/A	N/A	1.0E+02	3.5E+06	R1F	37	62
I-620	II-620 SAMPLE STATION ROOM	(3)	(3)	(3)	(3)	117	N/A	N/A	(3)	(3)	(3)	38	63
I-621	FUEL POOL HOLDING PUMP ROOM	(3)	(3)	(3)	(3)	113	N/A	N/A	(3)	(3)	(3)	47	

AE DRAWING NO.	PP&L DRAWING NO.			
REFERENCE DRAWINGS				
REV	DESCRIPTION	DR/CH	APPROVED	DATE

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**PRIMARY CONTAINMENT ZONES**

FSAR FIGURE 3.11-10



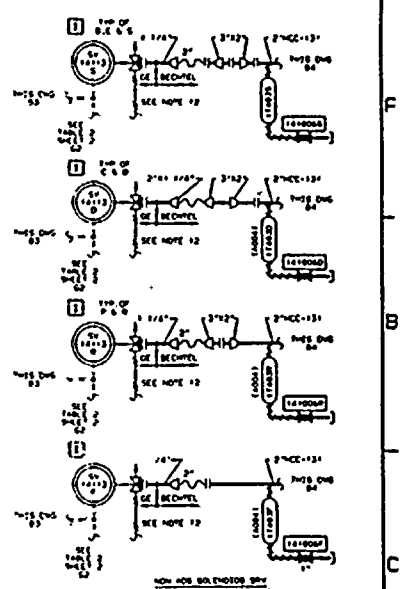
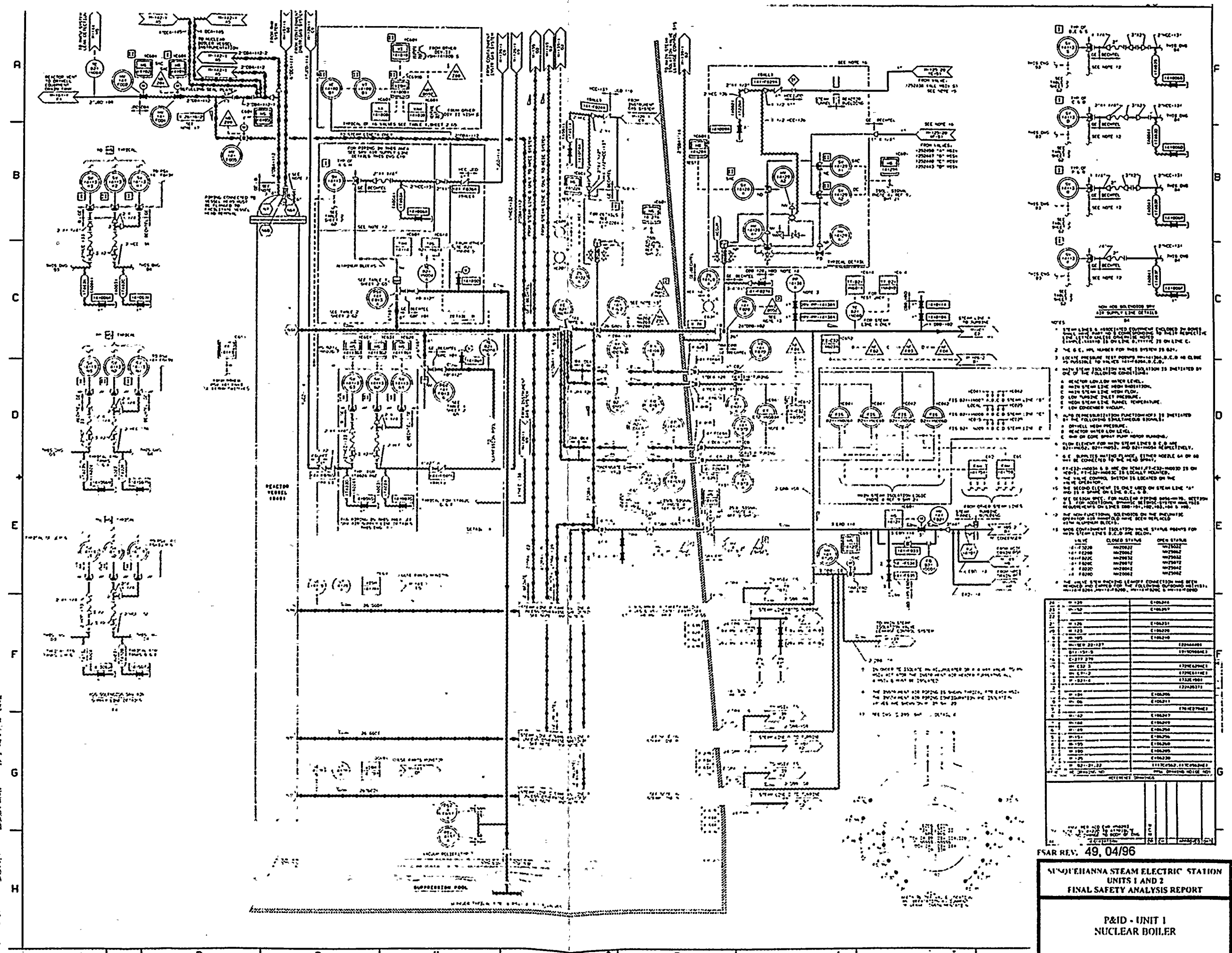












- NOTES**
1. ALL LINES & EQUIPMENT ENCLOSED BY THIS LINE ARE TO BE SHUT DOWN TO MAINTENANCE BY THIS LINE. IT IS ON LINE C.
  2. ALL LINES & EQUIPMENT ENCLOSED BY THIS LINE ARE TO BE SHUT DOWN TO MAINTENANCE BY THIS LINE. IT IS ON LINE C.
  3. LOCAL PRESSURE RELIEF VALVES (R-101, R-102, R-103) ARE TO BE SHUT DOWN TO MAINTENANCE BY THIS LINE. IT IS ON LINE C.
  4. ISOLATION VALVE ISOLATION IS INITIATED BY ONE OF THE FOLLOWING CONDITIONS:
    - A. REACTOR LOW WATER LEVEL.
    - B. HIGH STEAM LINE PRESSURE.
    - C. HIGH STEAM LINE TEMPERATURE.
    - D. HIGH STEAM LINE PANEL TEMPERATURE.
    - E. LOW CONDENSER VACUUM.
  5. ALL ISOLATION FUNCTIONS ARE INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  6. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  7. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  8. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  9. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  10. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  11. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  12. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  13. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  14. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  15. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  16. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  17. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  18. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  19. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.
  20. ISOLATION VALVE ISOLATION IS INITIATED BY THE FOLLOWING FUNCTIONS:
    - A. REACTOR HIGH PRESSURE.
    - B. REACTOR HIGH WATER LEVEL.
    - C. HIGH CONDENSER VACUUM.
    - D. HIGH STEAM LINE PRESSURE.
    - E. HIGH STEAM LINE TEMPERATURE.
    - F. HIGH STEAM LINE PANEL TEMPERATURE.
    - G. LOW CONDENSER VACUUM.

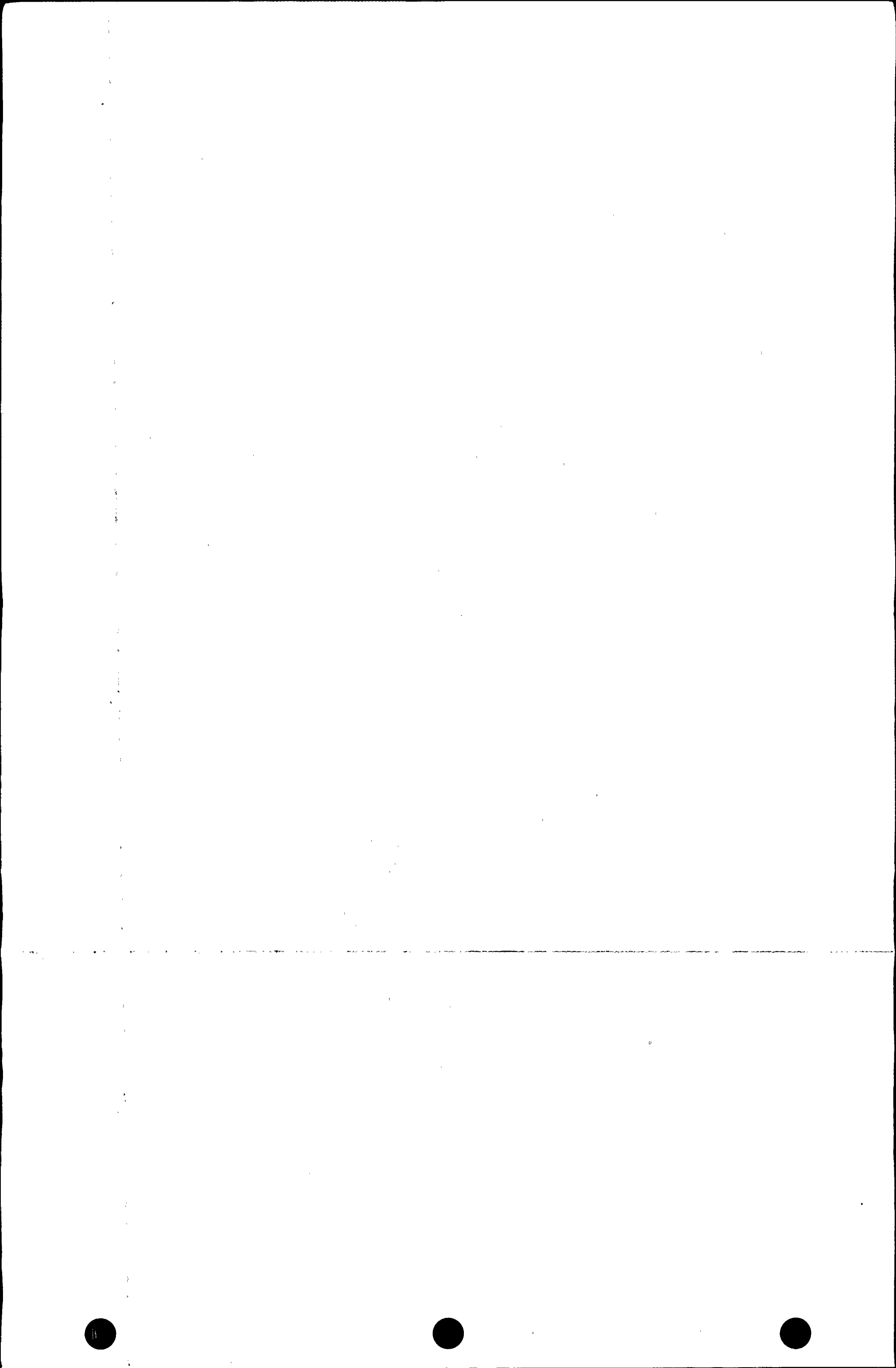
LINE	CLOSED STATE	OPEN STATE
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1-2	W25002	W25002
1-3	W25002	W25002
1-4	W25002	W25002
1-5	W25002	W25002
1-6	W25002	W25002
1-7	W25002	W25002
1-8	W25002	W25002
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1-38	W25002	W25002
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1-40	W25002	W25002
1-41	W25002	W25002
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1-94	W25002	W25002
1-95	W25002	W25002
1-96	W25002	W25002
1-97	W25002	W25002
1-98	W25002	W25002
1-99	W25002	W25002
1-100	W25002	W25002

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P&ID - UNIT 1  
NUCLEAR BOILER

FSAR FIGURE 5.1-2A-1  
FP&L DRAWING E-106246, Sh. 1



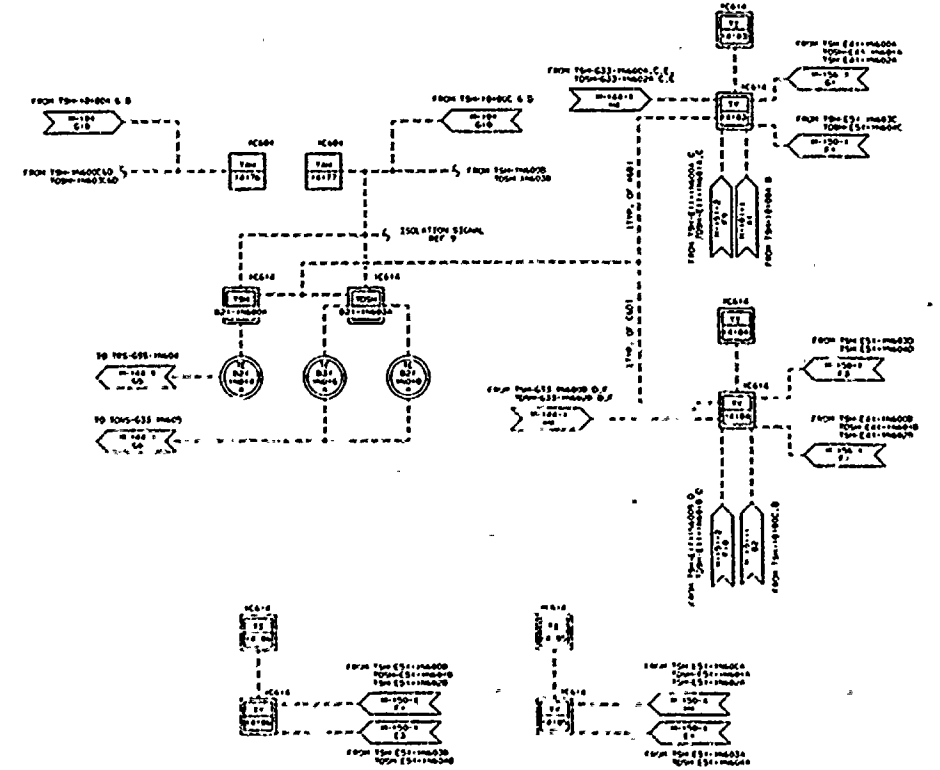
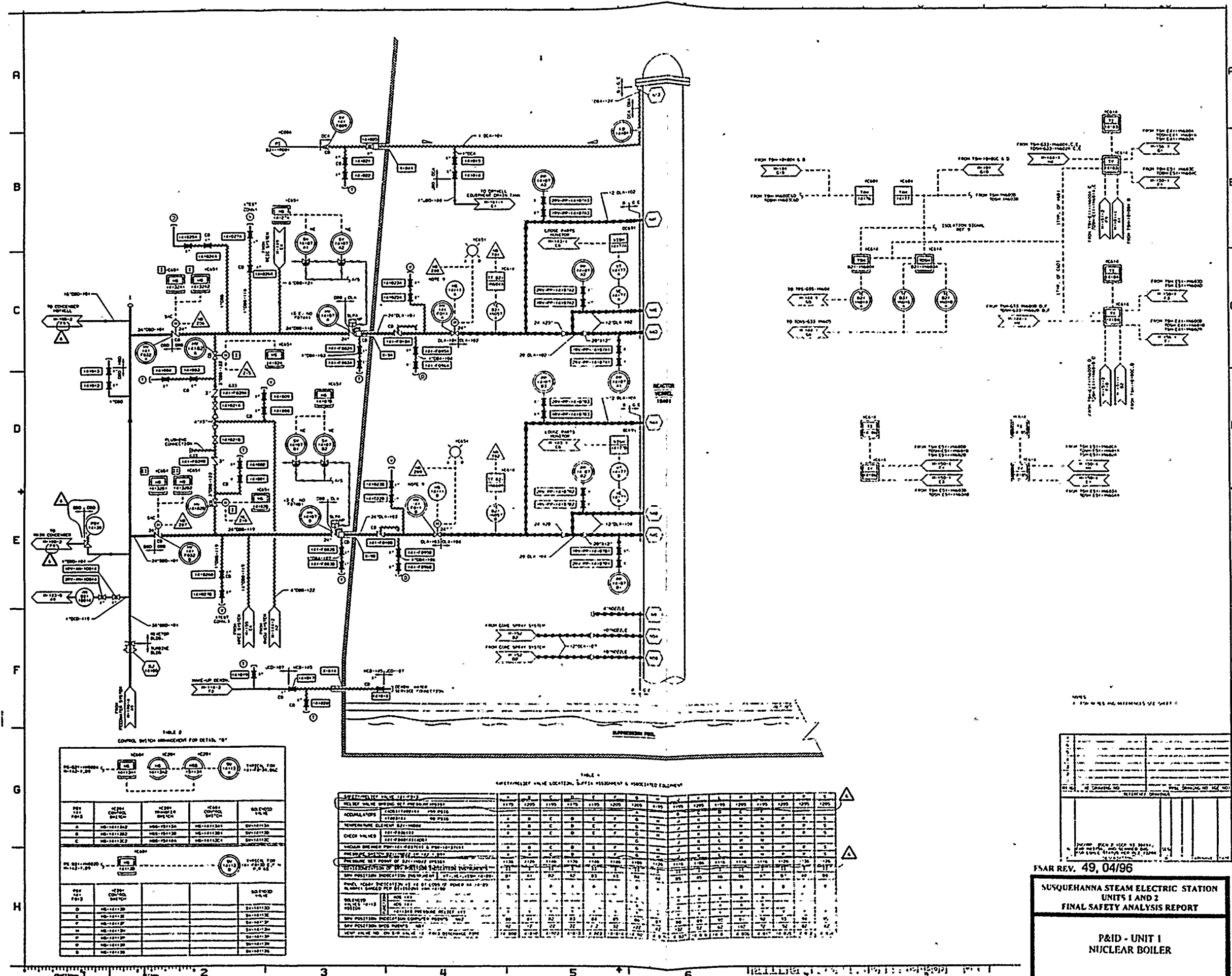


TABLE 3  
CONTROL SWITCH ASSIGNMENT FOR DETAIL "B"

SWITCH SYMBOL	CONTROL SYMBOL	CONTROL SYMBOL	CONTROL SYMBOL	CONTROL SYMBOL	CONTROL SYMBOL
10-100-101	10-100-102	10-100-103	10-100-104	10-100-105	10-100-106
10-100-107	10-100-108	10-100-109	10-100-110	10-100-111	10-100-112

TABLE 4  
CHECKVALVE VALVE LOCATION, SWITCH ASSIGNMENT & ASSOCIATED EQUIPMENT

SWITCH SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL	VALVE SYMBOL
10-100-101	10-100-102	10-100-103	10-100-104	10-100-105	10-100-106	10-100-107	10-100-108	10-100-109	10-100-110	10-100-111	10-100-112	10-100-113	10-100-114	10-100-115	10-100-116	10-100-117	10-100-118	10-100-119	10-100-120	10-100-121

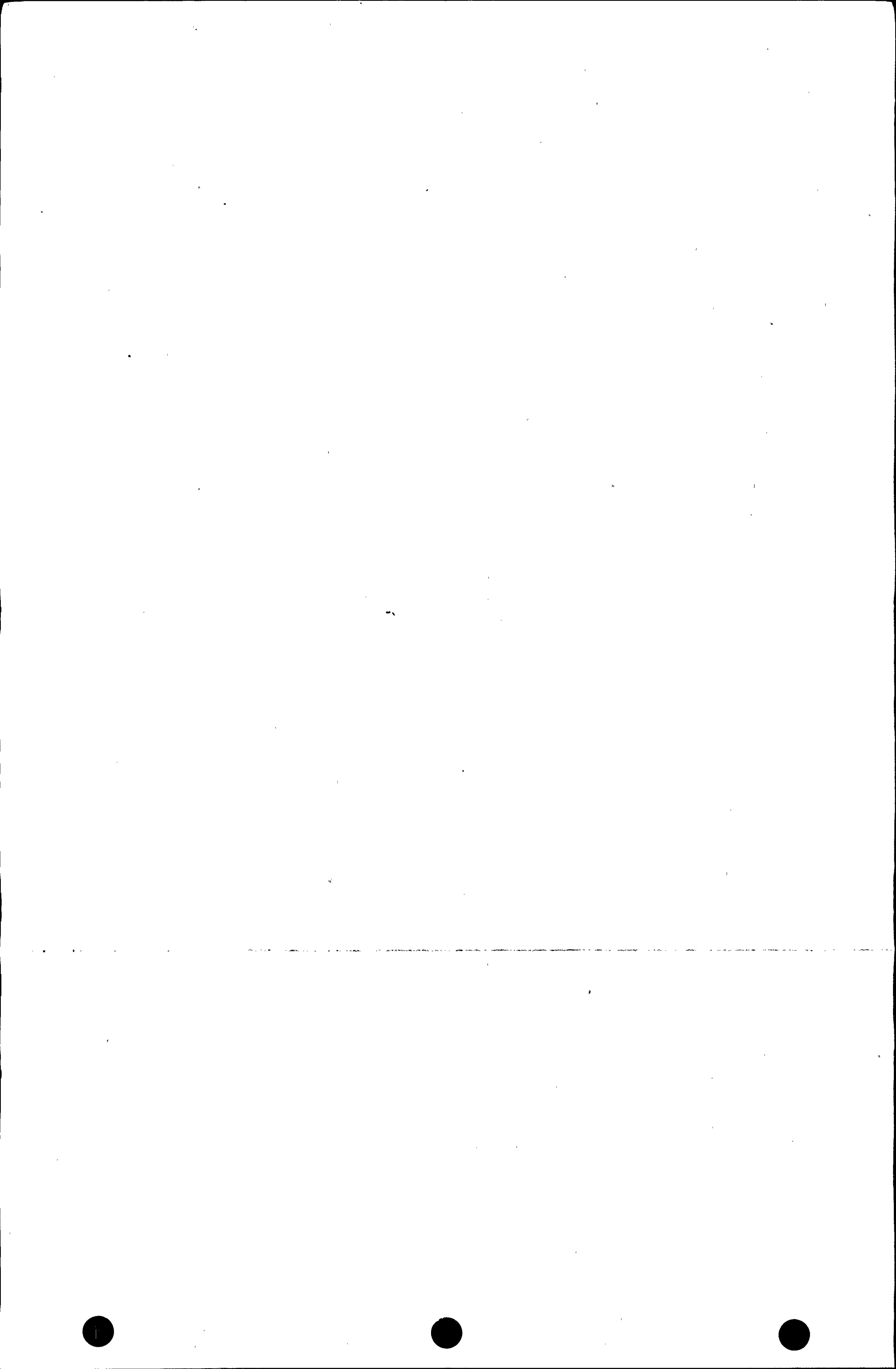
NO.	DESCRIPTION	DATE	BY

FSAR REV. 49, 04/96

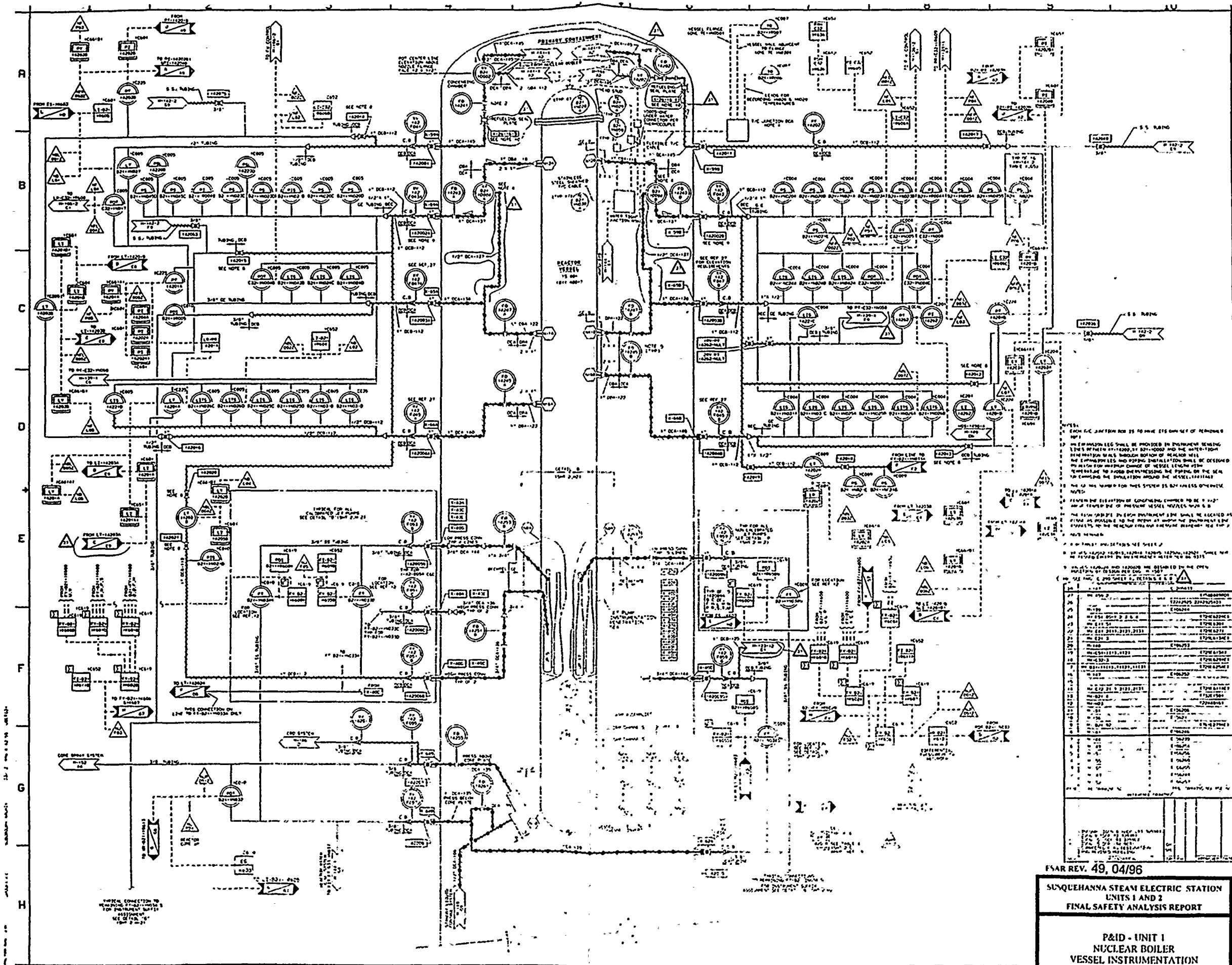
SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
NUCLEAR BOILER

FSAR FIGURE 5.1-2A-2  
P&L DRAWING: E-106246, Sh 2



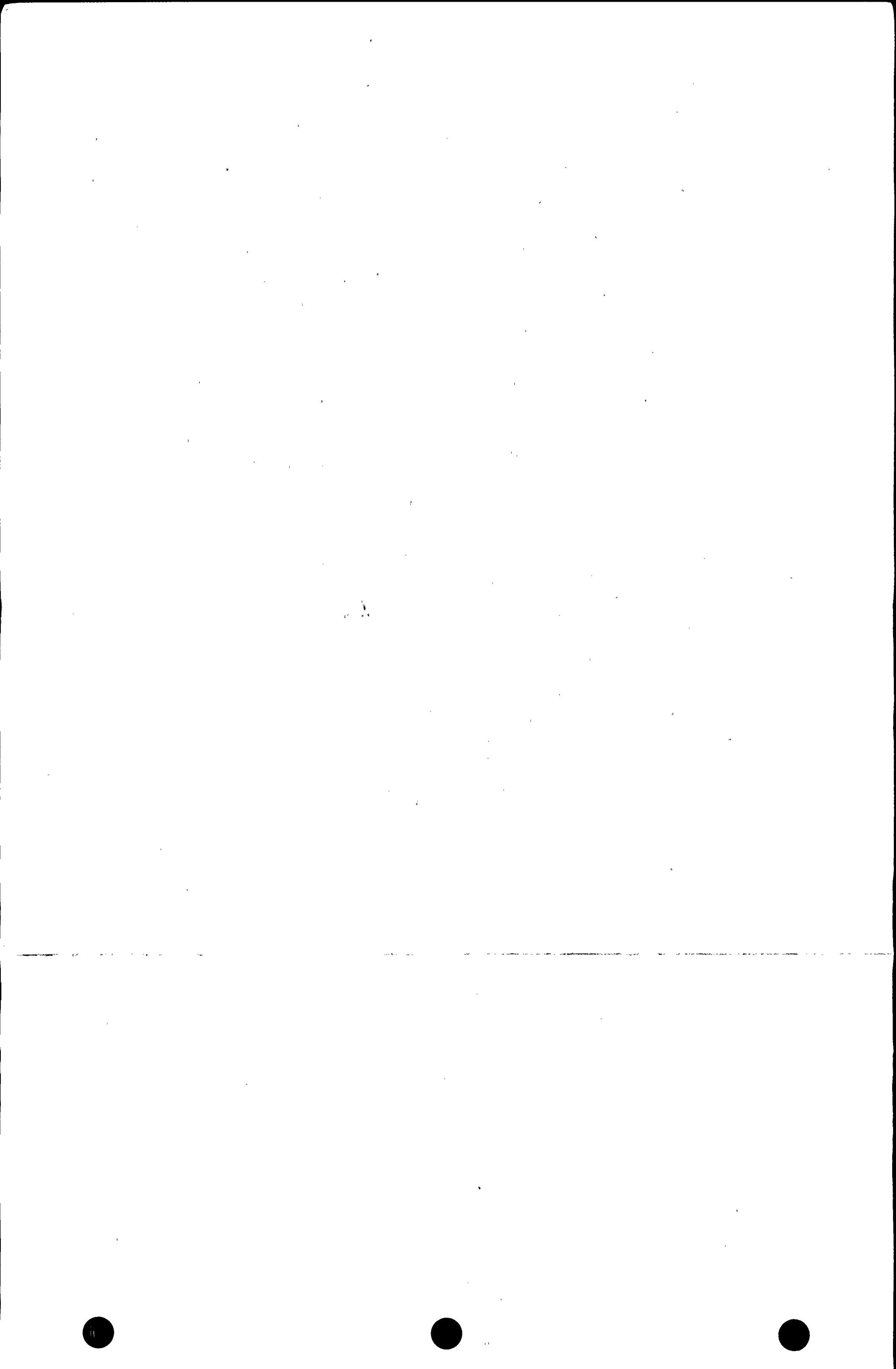


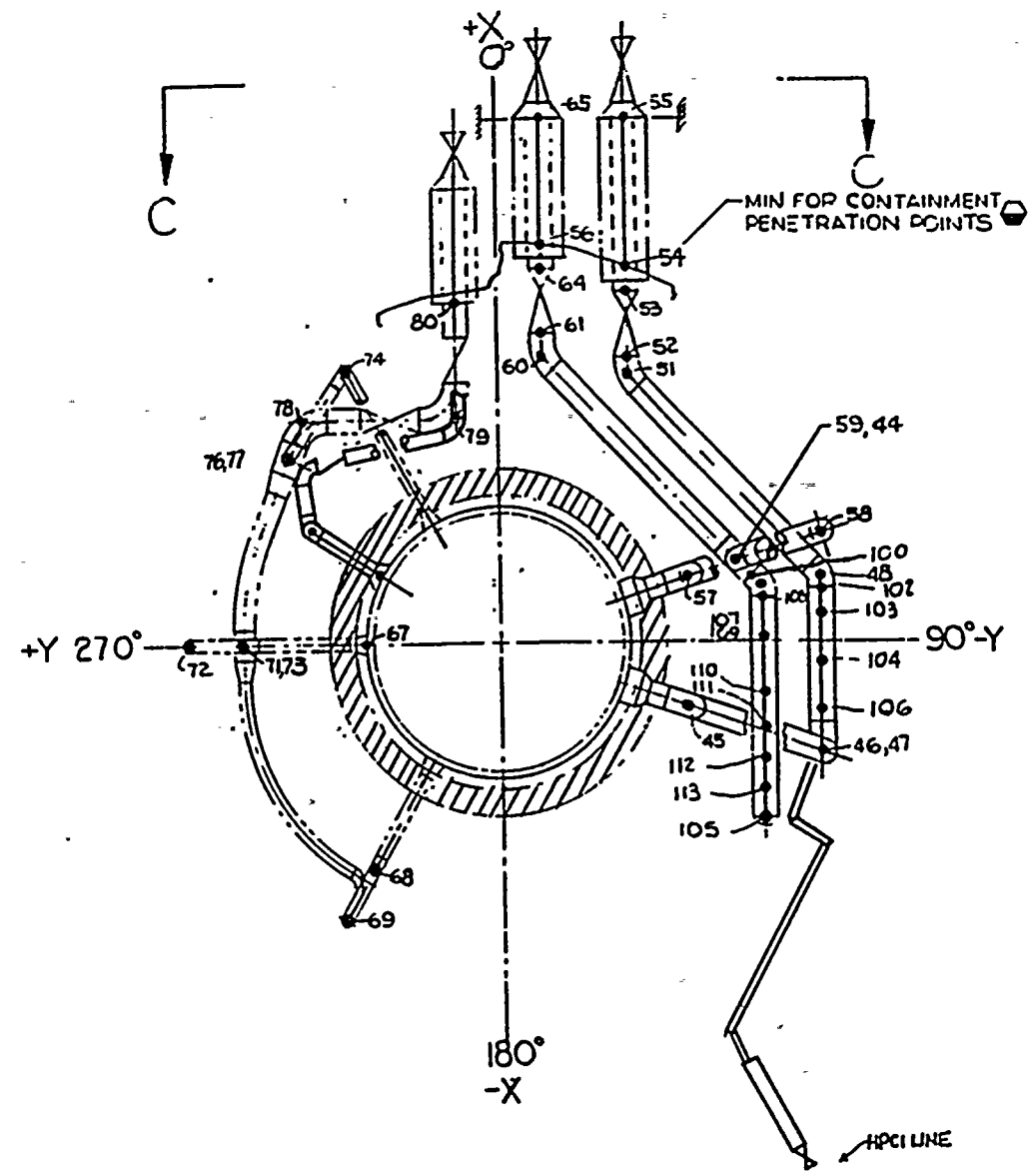


NOTES:  
 1. EACH SECTION BOX IS TO HAVE ITS OWN SET OF INSTRUMENTS.  
 2. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.  
 3. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.  
 4. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.  
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 10. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.  
 11. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.  
 12. THE INSTRUMENTS SHALL BE PROVIDED BY INSTRUMENT VENDOR.

NO.	DESCRIPTION	REVISION
1	ISSUED FOR CONSTRUCTION	1
2	REVISED TO REFLECT CHANGES	2
3	REVISED TO REFLECT CHANGES	3
4	REVISED TO REFLECT CHANGES	4
5	REVISED TO REFLECT CHANGES	5
6	REVISED TO REFLECT CHANGES	6
7	REVISED TO REFLECT CHANGES	7
8	REVISED TO REFLECT CHANGES	8
9	REVISED TO REFLECT CHANGES	9
10	REVISED TO REFLECT CHANGES	10
11	REVISED TO REFLECT CHANGES	11
12	REVISED TO REFLECT CHANGES	12
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45	REVISED TO REFLECT CHANGES	45
46	REVISED TO REFLECT CHANGES	46
47	REVISED TO REFLECT CHANGES	47
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49	REVISED TO REFLECT CHANGES	49
50	REVISED TO REFLECT CHANGES	50

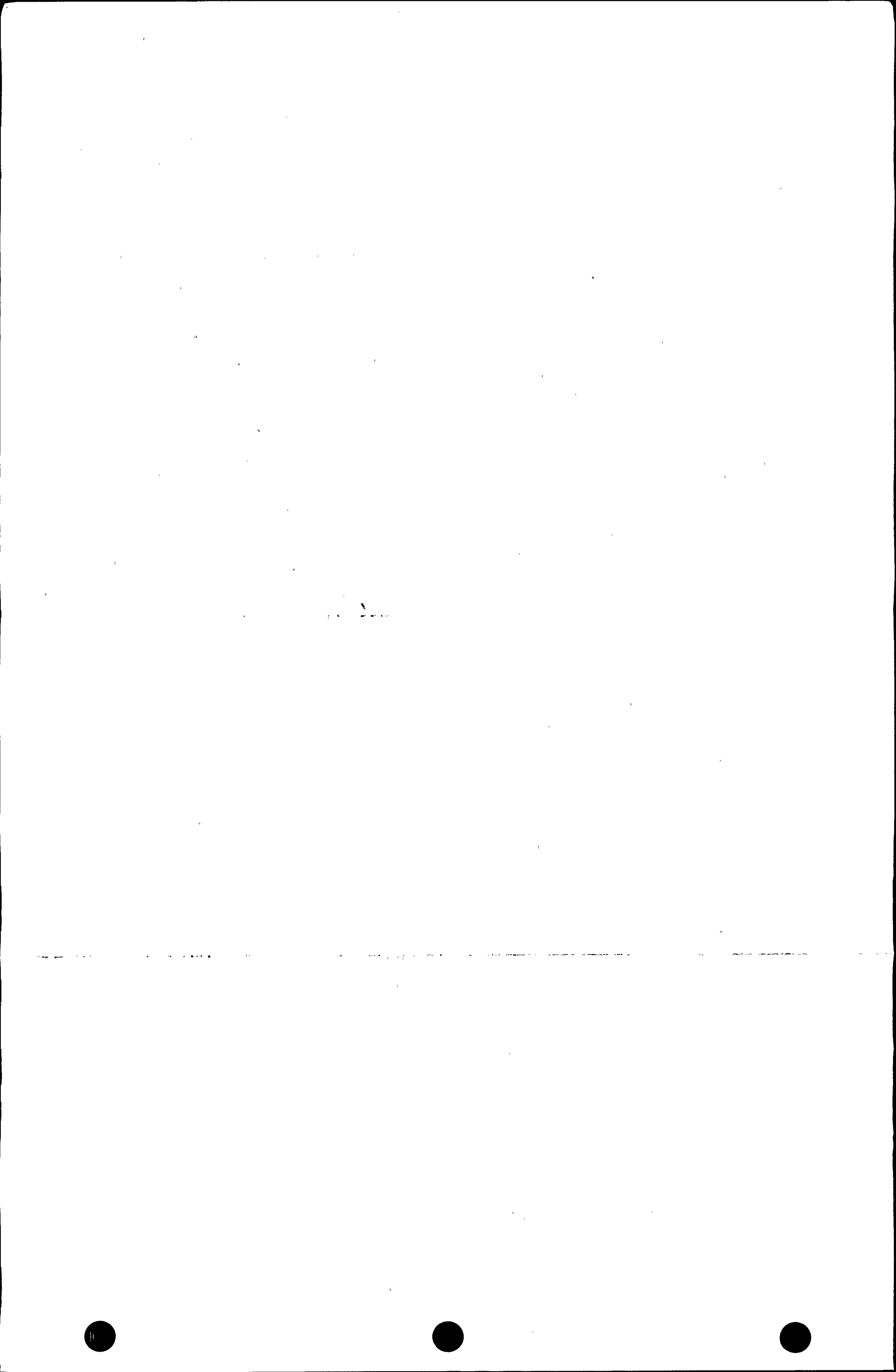
FSAR REV. 49, 04/96  
 SUQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT  
 P&ID - UNIT 1  
 NUCLEAR BOILER  
 VESSEL INSTRUMENTATION  
 FSAR FIGURE 5.1-2B  
 P&L DRAWING E-106347, Sh. 1

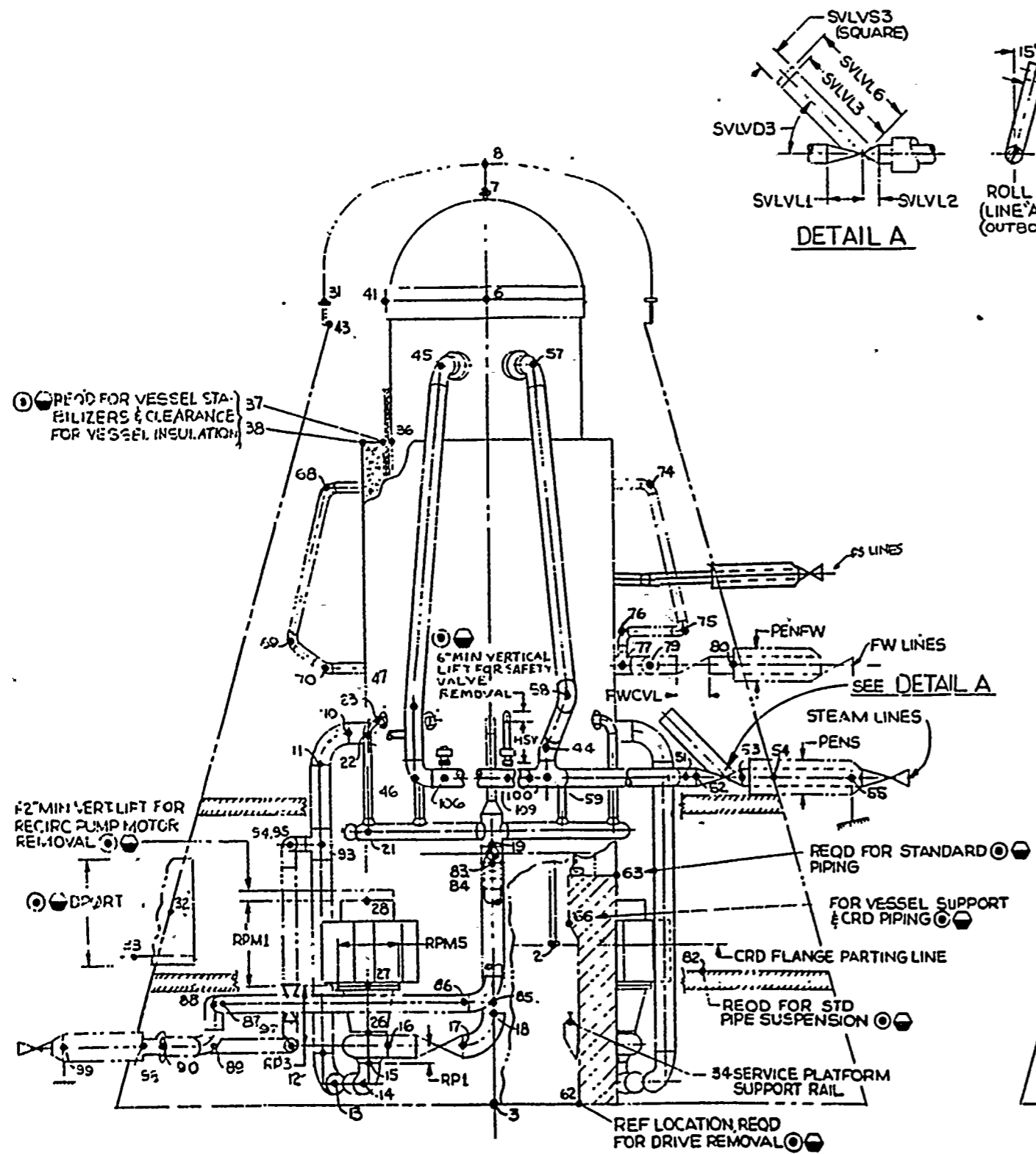




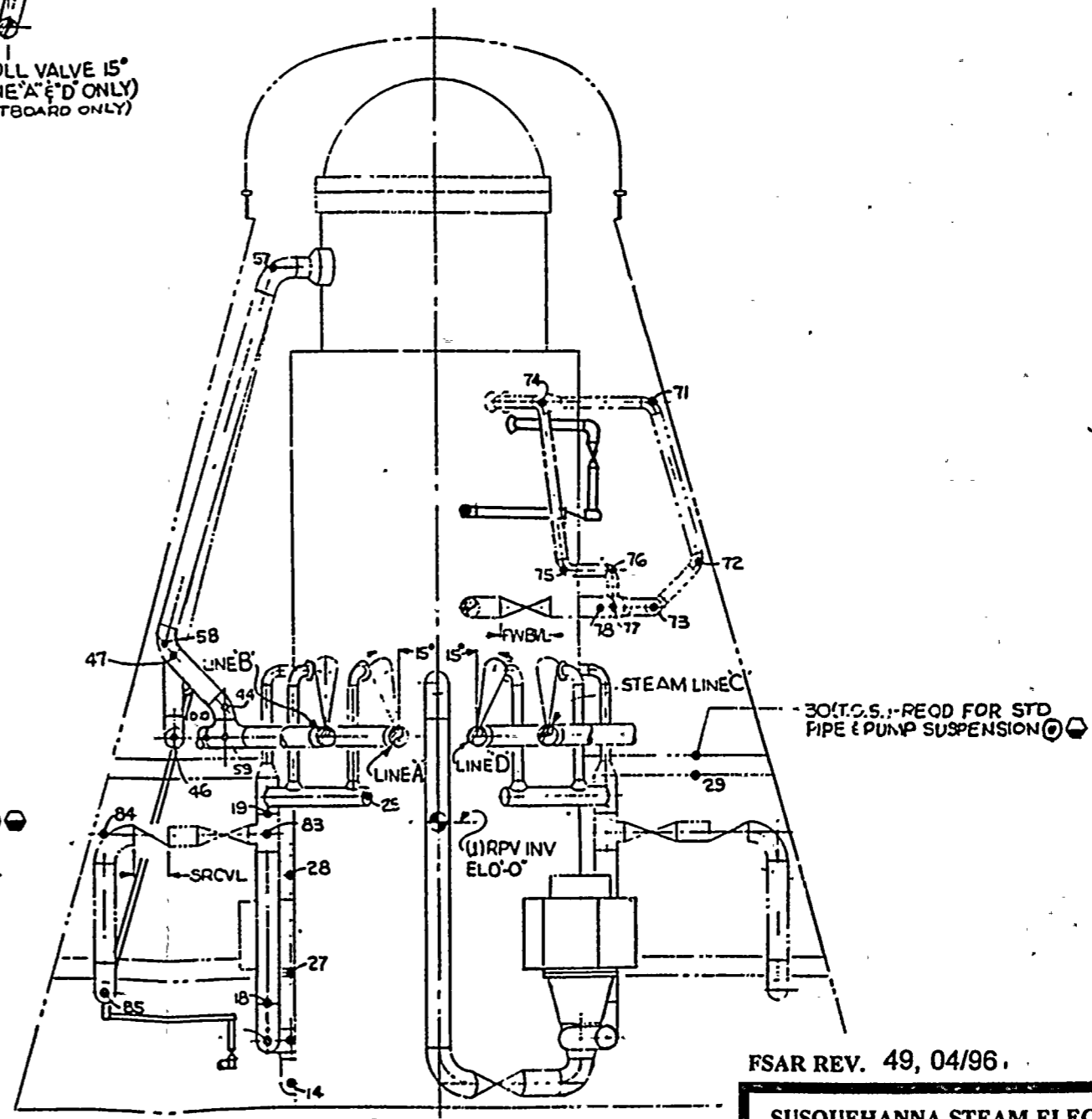
FSAR REV. 49, 04/96

<p>SUSQUEHANNA STEAM ELECTRIC STATION          UNITS 1 AND 2          FINAL SAFETY ANALYSIS REPORT</p>
<p>REACTOR COOLANT SYSTEM PLAN</p>
<p>FSAR FIGURE 5.1-3          PP&amp;L DRAWING</p>





VIEW D-D



VIEW C-C

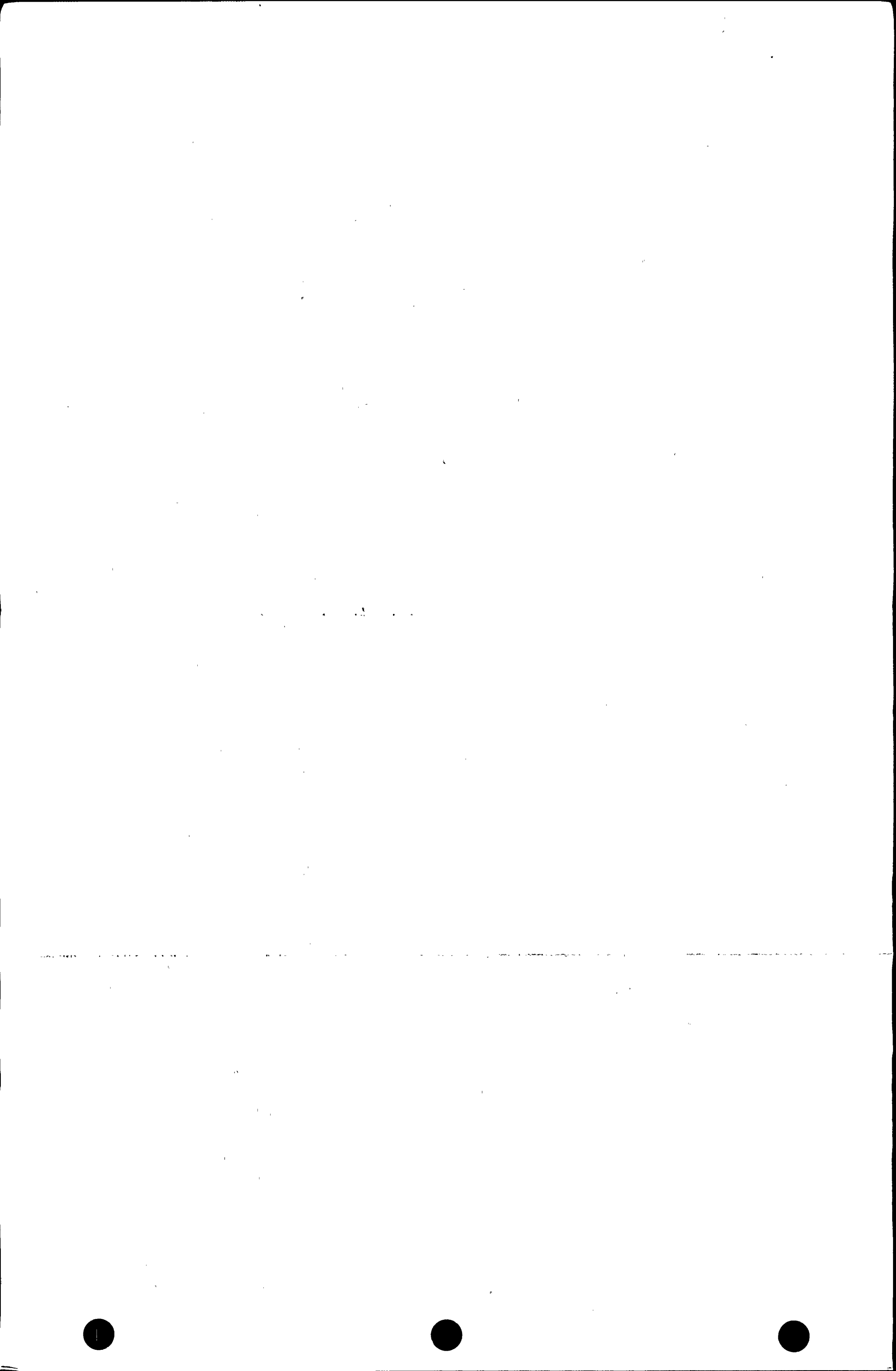
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SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

REACTOR COOLANT SYSTEM  
 ELEVATION DIAGRAM

FSAR FIGURE 5.1-4-1

PP&L DRAWING



PT. NO.	ANGLE (DEG)	RADIUS (FT-IN)	EL (FT-IN)	X-COORDINATES (FT-IN)	Y-COORDINATES (FT-IN)
1	0	0	0	0	0
2			-10 4		
3			-28 4		
4					
5					
6			62 1		
7			74 10		
8			77 4		
9	180		13 5.5		
10	180	16 3.5	13 5.5		
11	180	19 9.5	9 11.5		
12	180	19 9.5	-22 5		
13			-25 11	-18 7	-3 3.5
14			-25 11	-15 3.5	-12 3.5
15			-23 7	-14 5.5	-14 5.5
16			-21 7	-12 1.5	-16 11.5
17			-21 7	-3 6	-16 11.5
18			-18 1	0	-16 11.5
19			0 10.5	0	-16 11.5
20					
21	150	16 8.5	2 8.5		
22	150	16 8.5	13 7		
23	150	15 2.5	15 1		
24	150		15 1		
25		16 8.4	2 8.5		
26			-20 2.5	-14 5.5	-14 5.5
27			-14 11	14 5.5	-14 5.5
28			-5 9	-14 5.5	-14 5.5
29			4 6		
30			6 6		
31			62 1		
32					
33			-13 3		
34		9 4	-19 0		
35					
36		11 4	46 5		
37		12 9.5	46 5		
38		14 6.5	46 5		
39					
40					
41		11 8	62 1		
42					
43					
44			12 1	6 8	-20 6
45	108	17 2	54 10.5		
46			8 7.5	9 2	-28 3
47			11 4.5	9 2	-28 3
48				4 9	-28 3
49					
50					
51				22 0	-11 0
52				23 4	-11 0
53				28 7	-11 0
54			8 6	30 9.5	-11 0
55				43 0	-11 0
56			8 6	32 6	-3 8
57	72	17 2	54 10.5		

PT. NO.	ANGLE (DEG)	RADIUS (FT-IN)	EL (FT-IN)	X-COORDINATES (FT-IN)	Y-COORDINATES (FT-IN)
58	72	27 7.5	18 2		
59			8 7.5	6 8	-20 6
60				23 6	-3 8
61				25 4	-3 8
62		10 1.5	-28 4		
63		14 6.5	-2 6.5		
64				30 7	-3 8
65				43 0	-3 8
66		9 2.5	-8 1		
67			41 6.5		
68	210	21 6.5	41 6.5		
69	210				
70	210	22 9	21 3		
71			41 6.5	0 0	21 6.5
72				0 0	
73			21 3	0 0	21 8
74	330	21 6.5	41 6.5		
75	330				
76					
77			21 3		
78			21 3	18 6	16 5.5
79			21 3	18 6	3 6
80			21 3		3 6
81					
82			-13 4.5		
83			-0 10.5	0 0	-16 11.5
84			-0 10.5	0 0	-34 0
85			-16 10.5	0 0	-34 0
86	97	33 9	-16 10.5		
87	158	33 9	-16 10.5		
88	163	33 10.5	-16 10.5		
89	163	33 10.5	-21 7		
90	163	40 6	-21 7		
91	163	49 2	-21 7		
92					
93	180	19 9.5	1 0		
94			1 0	-23 9	0 0
95			1 0	-23 9	15 0
96			-21 7	-23 9	15 0
97	176-30	23 2.5	-21 7		
98	176-30		-21 7		
99	176-30	49 6	-21 7		
100				4 7.5	-22 5.5
101					
102			8 7.0	3 5	-28 5
103				2 4.5	-28 3
104				-1 7.5	-28 3
105				-14 10.5	-23 5
106				-5 9.5	-28 3
107				3 8	-23 5
108			8 7.0	2 4	-23 5
109				0 5.5	-23 5
110				-3 8.5	-23 5
111				-7 10.5	-23 5
112			8 7.5	-10 4.5	-23 5
113				-12 10.5	-23 5

\*THESE RADII TO BE DETERMINED BY RPV ID

REFERENCE EQUIPMENT DATA			
RECIRC SYSTEM		SYMBOL	
RECIRC PUMP SUCTION LINE			28"
RECIRC PUMP DISCHARGE LINE			28"
RECIRC RING HEADER			22"
RECIRC RISER LINE (5 PER LOOP)			12"
RHR/SHUTDOWN SUPPLY LINE			20"
RHR/SHUTDOWN RETURN LINE			24"
RECIRC BYPASS LINE			4"
KEY MOTOR DIM.	MAX	RPM5	88"
KEY MOTOR DIM.-MOTOR OVERALL HEIGHT	MAX	RPM1	110"
KEY MOTOR DIM.	MAX	RPM2	76"
KEY MOTOR DIM.	MAX	RPM3	128.5"
KEY PUMP DIM.-PUMP C TO DISCHARGE C			30"
KEY PUMP DIM.-PUMP DISCH C TO PED FLG FACE	(MIN)		80"
KEY PUMP DIM.-PUMP C TO SUCTION WELD POINT			24"
KEY PUMP DIM.-PUMP C TO DISCHARGE WELD POINT			28"
KEY SUCTION & DISCH VLV DIM-TOTAL VALVE LENGTH	RBLV		65"
KEY RHR/SHUTDOWN RETURN LINE VALVE LENGTH	SRVVL		61"
KEY RHR/SHUTDOWN SUCTION LINE VALVE LENGTH	SSBVL		52"
STEAM & FEEDWATER SYSTEMS			
MAIN STEAM LINE			28"
HPCI SUPPLY LINE (FROM STEAM LINE B)			10"
KEY SAFETY/RELIEF VLV. DIM.-TOTAL HEIGHT OF VLV. (MAX)	HSV		66"
RCIC SUPPLY LINE (FROM STEAM LINE C)			4"
KEY F.W. VLV. DIM.-CHECK VLV. LENGTH	FWCVL		61"
KEY F.W. VLV. DIM.-BLOCK VLV. LENGTH	FWBVL		61"
O.D. OF PENETRATION FOR STEAM LINES	PENS		42"
O.D. OF PENETRATION FOR F.W. LINES	PENFW		
F.W. AT VESSEL (6 REOD PER PLANT)			12"
F.W. 1ST INCREASE & 2ND INCREASE			20"/24"
KEY ISOL. VLV. DIM.-LENGTH DOWNSTREAM	(MAX)	SVLVL1	43"
KEY ISOL. VLV. DIM.-LENGTH UPSTREAM	(MAX)	SVLVL2	20"
KEY ISOL. VLV. DIM.-SQUARE OPERATOR DIM.	(MAX)	SVLVL3	22"
KEY ISOL. VLV. DIM.-ANGLE OF OPERATOR		SVLVD3	45"
KEY ISOL. VLV. DIM.-OPERATOR LENGTH	(MAX)	SVLVL3	134"
KEY ISOL. VLV. DIM.-OPERATOR PULL SPACE	(MAX)	SVLVL6	142"
CORE SPRAY LINE			12"

NO. OF SAFETY & SAFETY/RELIEF VLVs ON STEAM LINES		
LINE	SAFETY/RELIEF VLV	SAFETY VLV
A	5	
B	3	
C	3	
D	5	

NOTES:

- EL. ARE REFERENCED TO INSIDE OF BOTTOM HEAD ON VESSEL. RPV INV EL. = 732'-4"
- THESE DATA WHILE NOT WITHIN THE G.E. CO. SCOPE OF SUPPLY, HAVE A DIRECT EFFECT UPON CONTAINMENT SIZING.
- THESE DIMENSIONS DEFINE THE LIMITS OF THE STD G.E. NUCLEAR BOILER SYSTEM.
- THESE POINTS ARE REFERENCE EQUIPMENT LIMITS.
- THOSE ITEMS SHOWN IN PHANTOM ARE NOT SUPPLIED AS PART OF THE BASIC GENERAL ELECTRIC REACTOR SYSTEM. THEY ARE SHOWN FOR INFORMATION TO ESTABLISH A REFERENCE WHICH IS COMPATIBLE WITH THE STANDARD GENERAL ELECTRIC OFFERING. IT IS THE RESPONSIBILITY OF OTHERS TO ASSURE THAT DEVIATION FROM THE REFERENCE DESIGN DOES NOT EFFECT GENERAL ELECTRIC SUPPLIED EQUIPMENT.
- X, Y COORDINATES & ELEVATIONS WERE ROUNDED OFF TO THE NEAREST 1/2 INCH.

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SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

REACTOR COOLANT SYSTEM  
ELEVATION DIAGRAM

FSAR FIGURE 5.1-4-2

PP&L DRAWING





1. P&ID SYMBOLS.....481-1016  
 2. NUCLEAR STEAM PROCESS DIAGRAM.....481-1017  
 3. PIPING & INSTRUMENT SYMBOLS.....481-1018

THE PRESSURE AT THIS LOCATION VARIES ON PIPING ARRANGEMENT, AND MAY BE VARIOUS WITHIN THE FOLLOWING LIMITS.

1. MINIMUM PRESSURE AT PUMP SECTION 20 FEET  
 2. MINIMUM PRESSURE TOTAL DYNAMIC HEAD 20 FEET  
 3. MAXIMUM PRESSURE DROP BETWEEN LOCATION 1 & 2  
 4. MAXIMUM PRESSURE ALLOWED = 1.5 PSIA  
 5. MAXIMUM PRESSURE ALLOWED = 2.5 PSIA  
 6. SUFFICIENT PRESSURE TO PREVENT TURBINE SHAFT OIL LEAKAGE TO BE SPECIFIED ON TURBINE VENDOR DRAWINGS.  
 7. MAXIMUM PRESSURE AVAILABLE = 30 PSIA  
 8. MAXIMUM PRESSURE AVAILABLE = 65 PSIA  
 9. SUFFICIENT PRESSURE TO RETURN TO SUPPRESSION POOL  
 10. SUFFICIENT PRESSURE TO RETURN TO COND. STORAGE.

1. ATMOSPHERIC PRESSURE OF 14.7 PSIA WAS USED IN CALCULATIONS.  
 2. WATER FLOWS ARE SHOWN IN GPM, STEAM FLOWS IN 1000 LB/HR.  
 3. THE MAXIMUM POOL WATER TEMPERATURE FOR CONTINUOUS SYSTEM OPERATION WILL NOT EXCEED 140 F. DUE TO POTENTIAL SHORT TERM OPERATION AT HIGHER TEMPERATURES, PIPING EXPANSION SHALL BE BASED ON 170 F.  
 4. THE UNMEASURED FLOW ACCELERATION PRESSURE DROP OF 4.5 PSIA IS A FIXED LOSS BETWEEN LOCATIONS 1 AND 2.  
 5. THE LUB OIL COOLER PRESSURE DROP OF 3.0 PSIA IS A FIXED LOSS BETWEEN LOCATIONS 1 AND 2.  
 6. THE CONTROLLING MODES FOR LINE SIZING AND ARRANGEMENT ARE:  
 SECTION FROM COND STORAGE.....MODE A  
 SUCTION FROM SUPPRESSION POOL.....MODE C  
 PUMP DISCHARGE.....MODE C  
 STEAM SUPPLY.....MODE A & B  
 TURBINE EXHAUST.....MODE A, C & D  
 TEST LINE.....MODE C  
 COOLING SYSTEM.....MODE A

7. THERE ARE OTHER POTENTIAL OPERATING MODES WHICH DO NOT CONTROL PIPE OR VALVE SIZING OR SYSTEM OPERATION AND NO DATA IS SHOWN, AMONG THESE MODES ARE OPERATION WITH THE PUMP SUCTION TAKEN FROM THE OIL STEAM CONDENSING HEAT EXCHANGERS AND OPERATION WITH INTERMEDIATE PRESSURES IN THE REACTOR VESSEL AND SUPPRESSION POOL.  
 8. PUMP MINIMUM FLOW REQUIREMENT MAY OCCUR DURING ANY OPERATING MODE. FLOW REQUIREMENT IS 75 GPM MINIMUM, DURING MODE A.  
 9. STEAM FLOW FOR TEST MODE E AT POSITIONS 9, 10, & 11 BASED UPON A PUMP TDH OF 2330.

MAXIMUM TEMPERATURES GIVEN BELOW ARE FOR INFORMATION ONLY, AND ARE THE BASIS FOR DESIGN OF APPLICABLE EQUIPMENT.

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
DESIGN PRESSURE (PSIA)	125	1500	125	1250	150	1250	125	125	75	75	125	1500	125	125	125	125	125	125	125	125	125
DESIGN TEMP (MAX) (F)	140	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
DESIGN TEMP (MIN) (F)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40

(1) DESIGN PRESSURE SHALL BE EITHER 1500 PSIA OR DEPENDENT ON FEEDWATER SYSTEM SHUT-OFF HEAD AT THIS CONDITION BASED ON 1500 PSIA.  
 (2) FOR DESIGN TEMPERATURES REFER TO NUCLEAR BOILER SYSTEM PROCESS DIAGRAM, MWL-071-010.

MODE A SECTION FROM CONDENSATE STORAGE REACTOR AT HIGH PRESSURE, SUPPRESSION POOL AT HIGH PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	100	616	100	—	—	—	—	—	2875	144	122	16	16	16	0.15	—	0.01	16.7	—	0
OPERATING PRESSURE (PSIA)	143	0	1177	12	—	—	—	—	1172	0	0	14.7	0	45	0	5.8	0	0	0	—
OPERATING TEMPERATURE (F)	100	100	100	100	140	—	—	—	344	SAT	SAT	212	100	100	100	120	120	120	100	—

MODE B SECTION FROM CONDENSATE STORAGE REACTOR AT LOW PRESSURE, SUPPRESSION POOL AT HIGH PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	100	616	100	—	—	—	—	—	320	119	125	16	16	16	0.15	—	0.01	16.7	—	0
OPERATING PRESSURE (PSIA)	143	0	170	12	—	—	—	—	163	0	0	14.7	0	45	0	5.8	0	0	0	—
OPERATING TEMPERATURE (F)	100	100	100	140	—	—	—	—	344	SAT	SAT	212	100	100	100	120	120	120	100	—

MODE C SUCTION FROM SUPPRESSION POOL REACTOR AT HIGH PRESSURE, SUPPRESSION POOL AT LOW PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	100	616	100	—	—	—	—	—	274	182	125	16	16	16	0.15	—	0.01	16.7	—	0
OPERATING PRESSURE (PSIA)	—	0	1177	12	—	—	—	—	1166	75	0	45	0	5.8	0	0	0	0	0	—
OPERATING TEMPERATURE (F)	—	140	140	140	140	140	140	140	344	SAT	SAT	212	100	100	100	120	120	120	100	—

MODE D SUCTION FROM SUPPRESSION POOL REACTOR AT LOW PRESSURE, SUPPRESSION POOL AT LOW PRESS

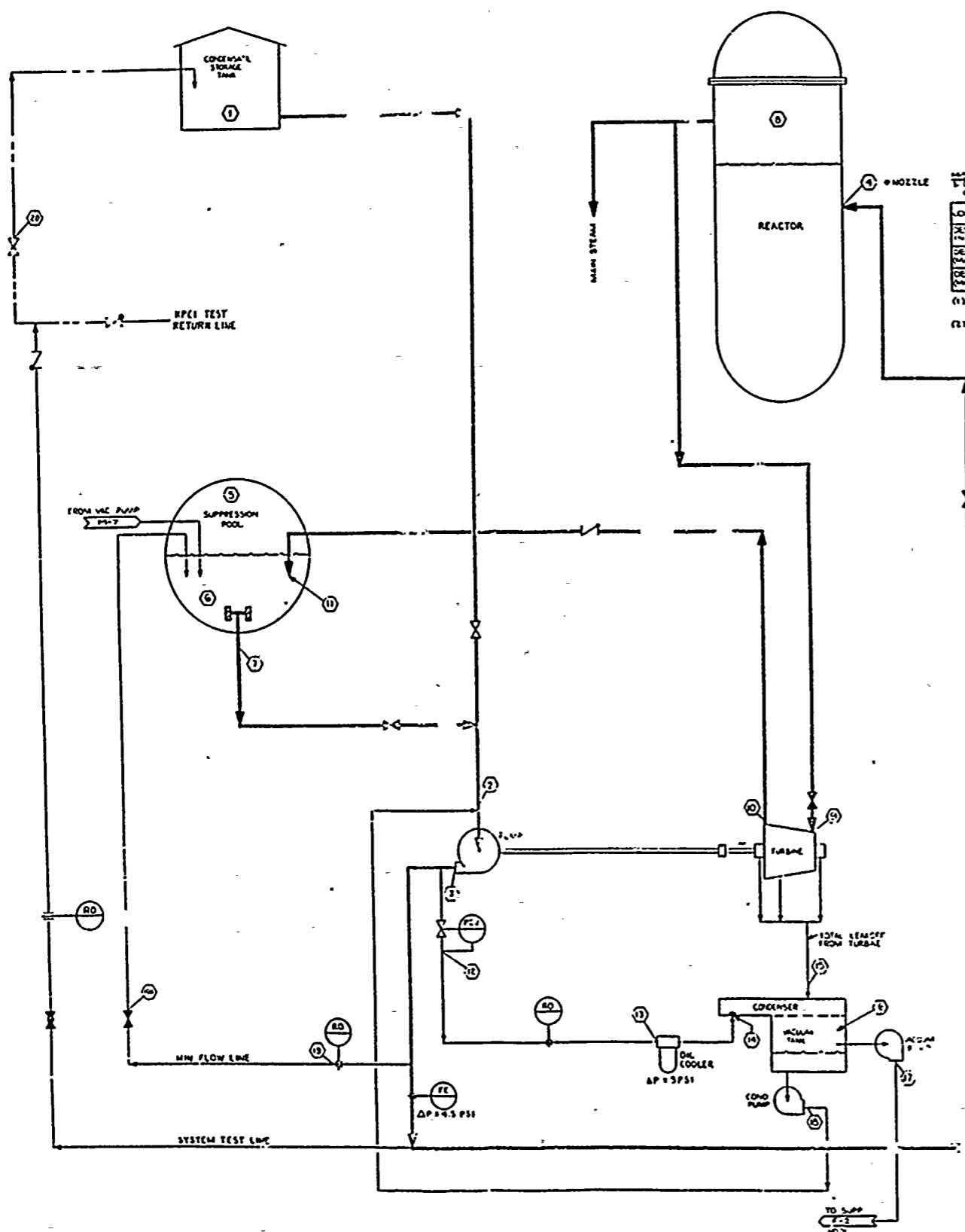
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	100	616	100	—	—	—	—	—	609	—	140	125	16	16	16	0.15	—	0.01	16.7	—
OPERATING PRESSURE (PSIA)	—	0	170	12	—	—	—	—	163	0	0	14.7	0	45	0	5.8	0	0	0	—
OPERATING TEMPERATURE (F)	—	140	140	140	140	140	140	140	344	SAT	SAT	212	100	100	100	120	120	120	100	—

MODE E TEST MODE: SUCTION FROM CONDENSATE STORAGE REACTOR AT HIGH PRESS, SUPPRESSION POOL AT LOW PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	100	616	0	—	—	—	—	—	35	112	125	16	16	16	0.15	—	0.01	16.7	—	0
OPERATING PRESSURE (PSIA)	143	0	—	—	—	—	—	—	0	0	14.7	0	45	0	5.8	0	0	0	0	—
OPERATING TEMPERATURE (F)	100	100	100	—	—	—	—	—	344	SAT	SAT	212	100	100	100	120	120	120	100	—

MODE F STAND BY EQUIPMENT NOT OPERATING

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
FLOW-SEE NOTE 2	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
PRESS-PSIA	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TEMP (MAX) (F)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TEMP (MIN) (F)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



**REVISION REFLECTS ORIGINAL DESIGN CONDITIONS**

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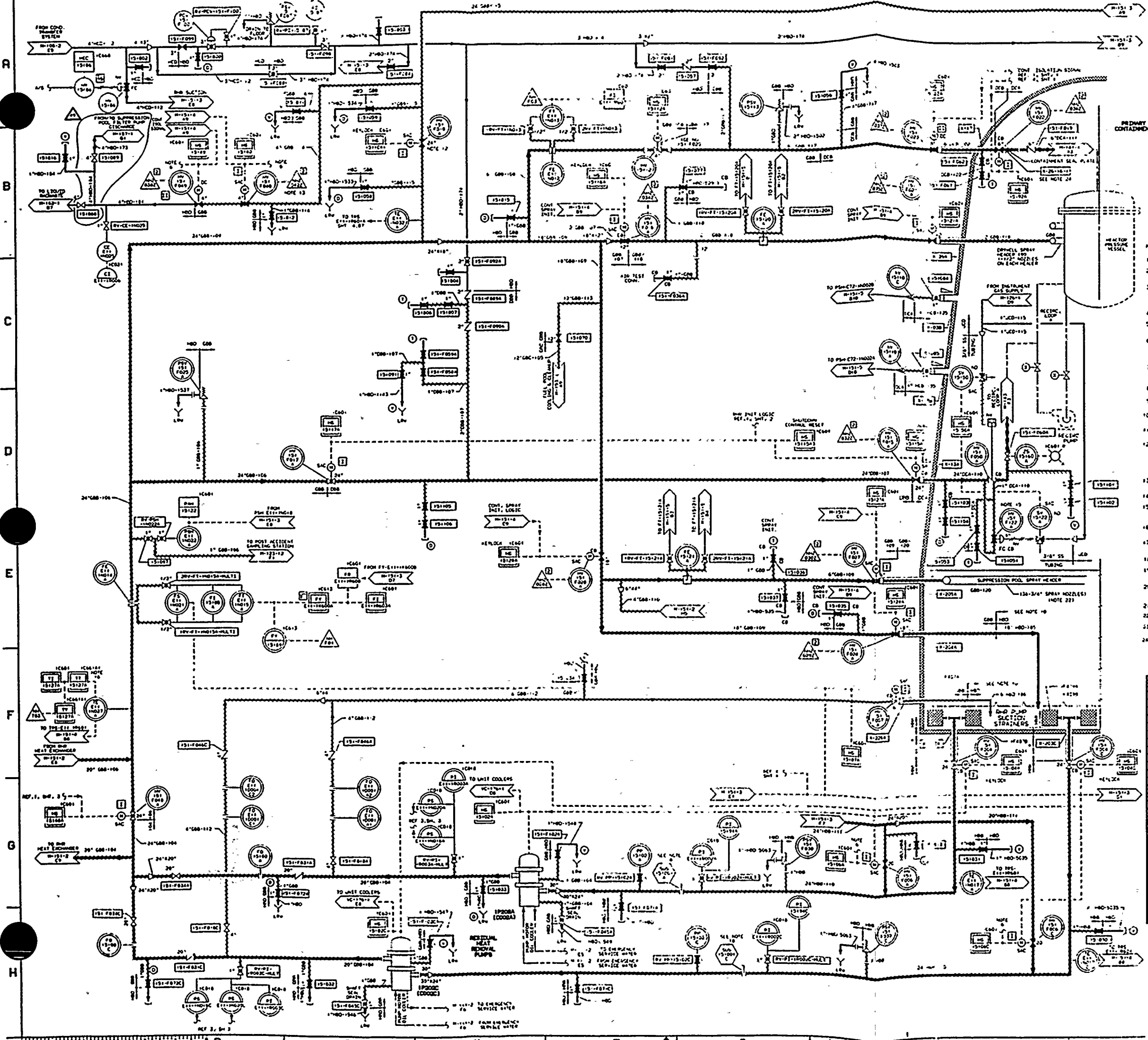
**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

**REACTOR CORE ISOLATION  
 COOLANT  
 (RCIC)  
 PROCESS DIAGRAM**

FSAR FIGURE 5.4-10

PP&L DRAWING FF-129010, Sh. 8101





- NOTES:
1. THE CE M/L NUMBER FOR THIS SYSTEM IS E11.
  2. FILLING LINE FROM CONDENSATE SYSTEM SHOULD BE CONNECTED TO HIGH POINT OF DISCHARGE PIPING.
  3. L.P.C.I. MODE OF OPERATION IS INITIATED BY HIGH DRYWELL PRESSURE (PS-11021A,B,C,D) OR REACTOR OR REACTOR LOW LEVEL (LS-11011A,B,C,D).
  4. L.P.C.I. = LOW PRESSURE COOLANT INJECTION.
  5. FOR INTERLOCKING REQUIREMENTS & AUTO VALVE ACTUATION SEE CE FUNCTIONAL CONTROL DIAGRAM REF. 1.
  6. TABLE "A" LIST THE SWITCHES WHICH ARE INVOLVED IN REMOTE SHUTDOWN. ONLY THE CONTROL ROOM SWITCHES ARE SHOWN ON THE DRAWING. REFER TO TABLE "A" FOR REMOTE PANEL SWITCHES AND SELECTOR SWITCHES.
  7. M.O.V. TEST FUNCTION IS SHOWN ON ELEMENTARY DIAGRAM SHEET 1 AND FED TEST SWITCHES MOUNTED ON PANEL 1E001.
  8. NOTE REMOVED.
  9. ALL FLOODING DETECTOR LEVEL SWITCHES ARE SEISMICALLY QUALIFIED.
  10. THE POSITION OF THE PIPE DESIGNATED WITH AN ARROW IS SEISMICALLY ANALYZED.
  11. ALARM 15101A IS ENGAGED BY TE-11004A,B ONLY.
  12. VALVES 1F010A AND 1F010B SHALL BE PERMANENTLY CLOSED POWER DISCONNECTED UNLESS REACTION IS IN THE COLD SHUTDOWN CONDITION. HOWEVER, ONE VALVE CAN BE TEMPORARILY ENERGIZED AND OPENED PROVIDED THE OTHER VALVE REMAINS DEENERGIZED AND CLOSED FOR PURPOSES OF SYSTEM FLUSHING.
  13. INSTALL MV-1F040 IN REVERSE DIRECTION FLOW TO BE OVER SEAT.
  14. REFER TO J-181 FOR ISOLATION SIGNALS.
  15. HANDLE OF MV-151-1122A HAS BEEN REMOVED TO PREVENT POSSIBLE OVERRIDE OF PRIMARY CONTAINMENT ISOLATION SIGNALS.
  16. TE-11004B,B10'S ARE NOT DYNAMICALLY QUALIFIED FOR THESE LOCATIONS.
  17. NOTE REMOVED.
  18. SUS REPLACED BY RING SPACERS.
  19. LINE 1" 1100-546 IS SHOWN ON ISOMETRIC Dwg. SP 100-047-1.
  20. THE 2" CW STEAM CONDENSING HEAT EXCHANGER HAS BEEN ISOLATED BY DCP 84-7033. PIPING AND VALVES HAVE BEEN ABANDONED IN THE FIELD.
  21. THESE COMPONENTS ARE FUNCTIONALLY DISABLED.
  22. TWO NOZZLES PLUGGED. REFERENCE BUREAU ACR. 6844.
  23. NOTE REMOVED.
  24. SEE Dwg. C-296 SHEET 1 DETAIL 4.

1	W-150	E-10425
2	W-151	E-10426
3	W-152	E-10427
4	W-153	E-10428
5	W-154	E-10429
6	W-155	E-10430
7	W-156	E-10431
8	W-157	E-10432
9	W-158	E-10433
10	W-159	E-10434
11	W-160	E-10435
12	W-161	E-10436
13	W-162	E-10437
14	W-163	E-10438
15	W-164	E-10439
16	W-165	E-10440
17	W-166	E-10441
18	W-167	E-10442
19	W-168	E-10443
20	W-169	E-10444
21	W-170	E-10445
22	W-171	E-10446
23	W-172	E-10447
24	W-173	E-10448
25	W-174	E-10449
26	W-175	E-10450
27	W-176	E-10451
28	W-177	E-10452
29	W-178	E-10453
30	W-179	E-10454
31	W-180	E-10455
32	W-181	E-10456
33	W-182	E-10457
34	W-183	E-10458
35	W-184	E-10459
36	W-185	E-10460
37	W-186	E-10461
38	W-187	E-10462
39	W-188	E-10463
40	W-189	E-10464
41	W-190	E-10465
42	W-191	E-10466
43	W-192	E-10467
44	W-193	E-10468
45	W-194	E-10469
46	W-195	E-10470
47	W-196	E-10471
48	W-197	E-10472
49	W-198	E-10473
50	W-199	E-10474
51	W-200	E-10475

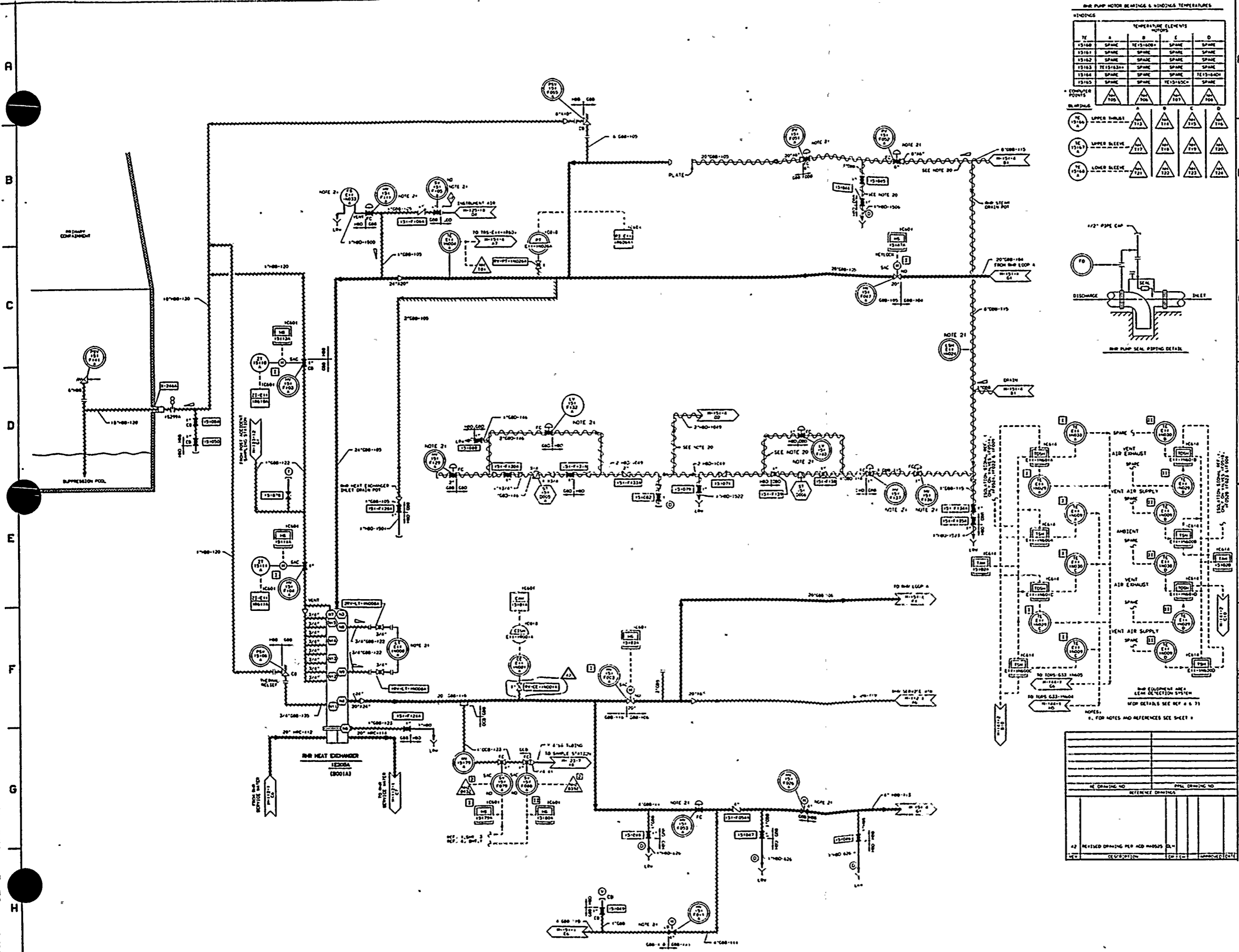
FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
RESIDUAL HEAT REMOVAL

FSAR FIGURE 5.4-11-1  
PP&I DRAWING E-106256, Sh. 1





RHR PUMP MOTOR BEARINGS & WINDINGS TEMPERATURES

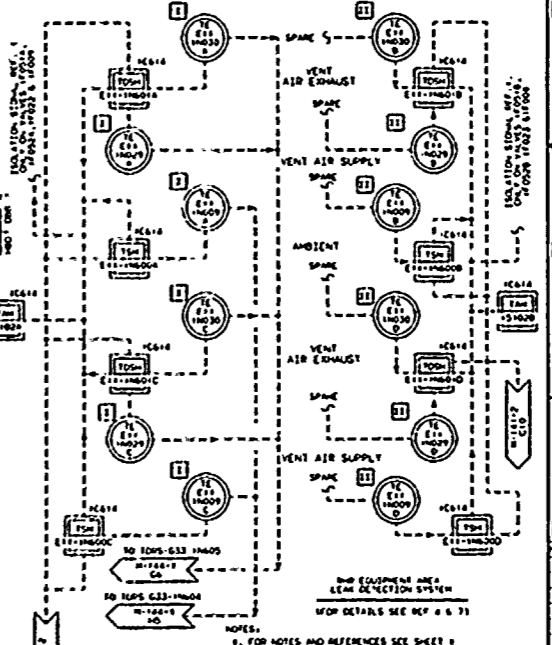
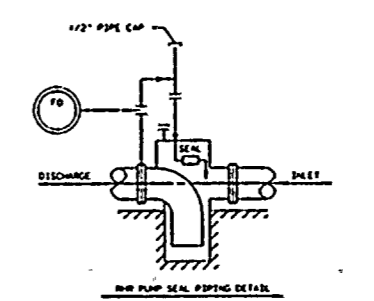
WINDINGS	TEMPERATURE ELEMENTS			
	A	B	C	D
15160	SPARE	TE-15160A	SPARE	SPARE
15161	SPARE	SPARE	SPARE	SPARE
15162	SPARE	SPARE	SPARE	SPARE
15163	TE-15163A	SPARE	SPARE	SPARE
15164	SPARE	SPARE	SPARE	TE-15164D
15165	SPARE	SPARE	TE-15165C	SPARE

COMPUTER POINTS	A	B	C	D
15166	100	100	100	100

WINDINGS	A	B	C	D
15166	UPPER THROTTLE	117	117	117
15167	UPPER SLEEVE	117	117	117
15168	LOWER SLEEVE	121	121	121



REV	DESCRIPTION	DATE	BY	CHK

REV	DESCRIPTION	DATE	BY	CHK

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
RESIDUAL HEAT REMOVAL

FSAR FIGURE 5.4-11-2  
PF&L DRAWING E-106256, Sh. 2



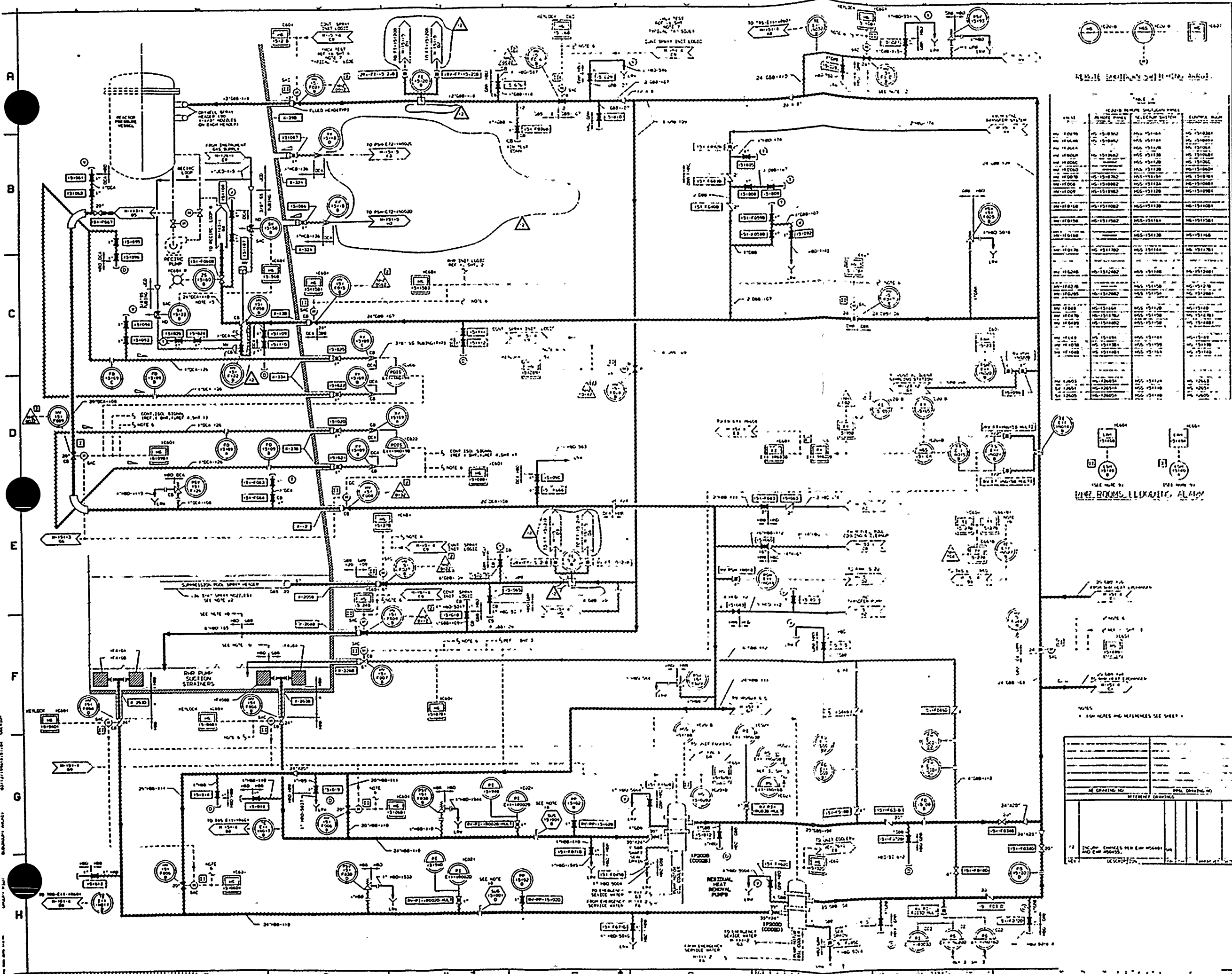


TABLE 1  
LEAD AND TRIP POINTS

TRIP NO.	TRIP POINT	TRIP POINT	TRIP POINT
151001	151001	151001	151001
151002	151002	151002	151002
151003	151003	151003	151003
151004	151004	151004	151004
151005	151005	151005	151005
151006	151006	151006	151006
151007	151007	151007	151007
151008	151008	151008	151008
151009	151009	151009	151009
151010	151010	151010	151010
151011	151011	151011	151011
151012	151012	151012	151012
151013	151013	151013	151013
151014	151014	151014	151014
151015	151015	151015	151015
151016	151016	151016	151016
151017	151017	151017	151017
151018	151018	151018	151018
151019	151019	151019	151019
151020	151020	151020	151020
151021	151021	151021	151021
151022	151022	151022	151022
151023	151023	151023	151023
151024	151024	151024	151024
151025	151025	151025	151025
151026	151026	151026	151026
151027	151027	151027	151027
151028	151028	151028	151028
151029	151029	151029	151029
151030	151030	151030	151030
151031	151031	151031	151031
151032	151032	151032	151032
151033	151033	151033	151033
151034	151034	151034	151034
151035	151035	151035	151035
151036	151036	151036	151036
151037	151037	151037	151037
151038	151038	151038	151038
151039	151039	151039	151039
151040	151040	151040	151040
151041	151041	151041	151041
151042	151042	151042	151042
151043	151043	151043	151043
151044	151044	151044	151044
151045	151045	151045	151045
151046	151046	151046	151046
151047	151047	151047	151047
151048	151048	151048	151048
151049	151049	151049	151049
151050	151050	151050	151050

FSAR REV. 49, 04/96

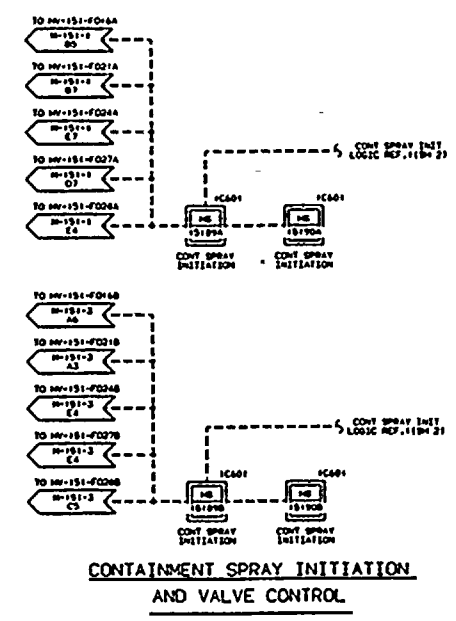
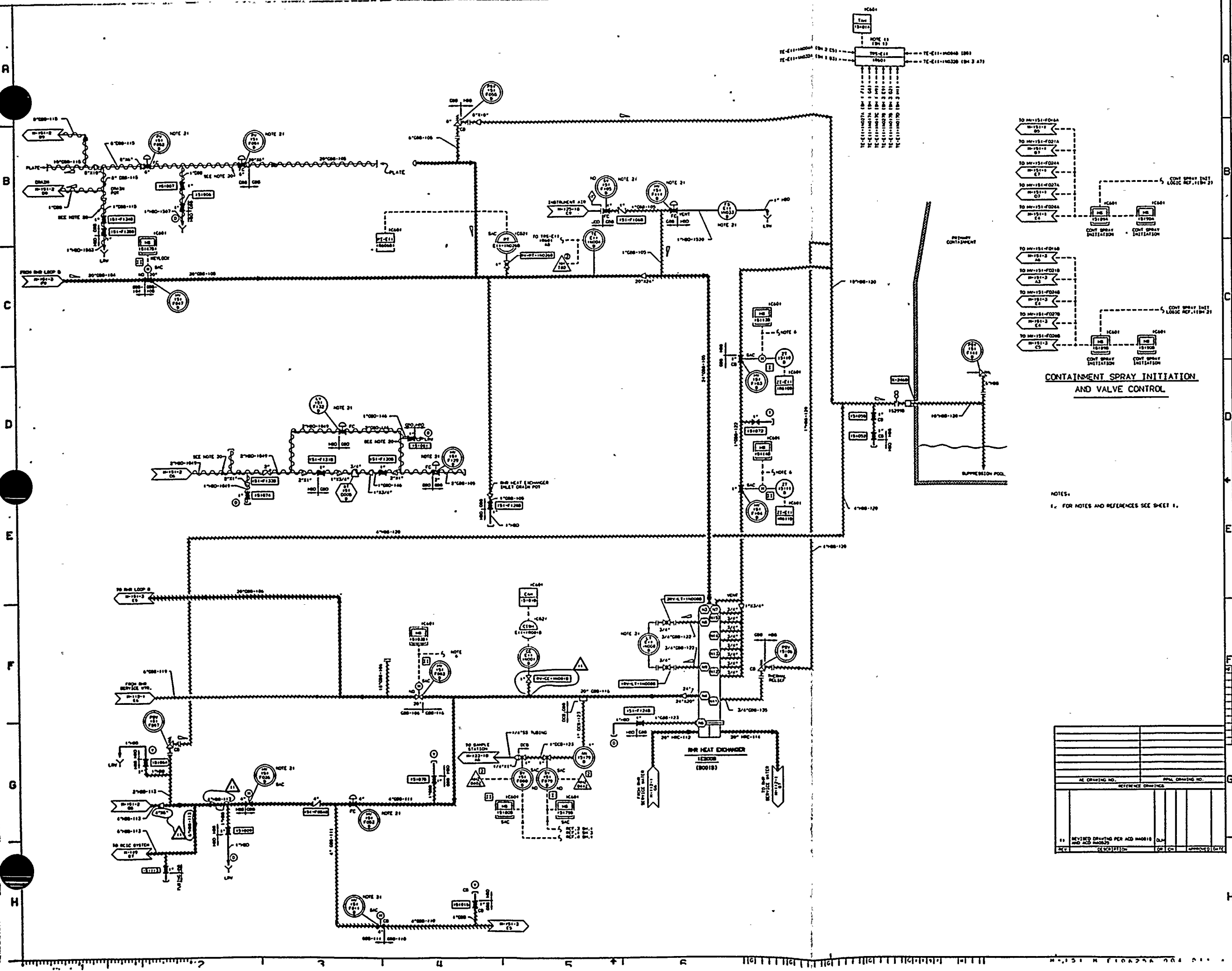
SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
RESIDUAL HEAT REMOVAL

FSAR FIGURE 5-4-11-3  
PP&I DRAWING I-106256, Sh. 3







NOTES:  
 1. FOR NOTES AND REFERENCES SEE SHEET 1.

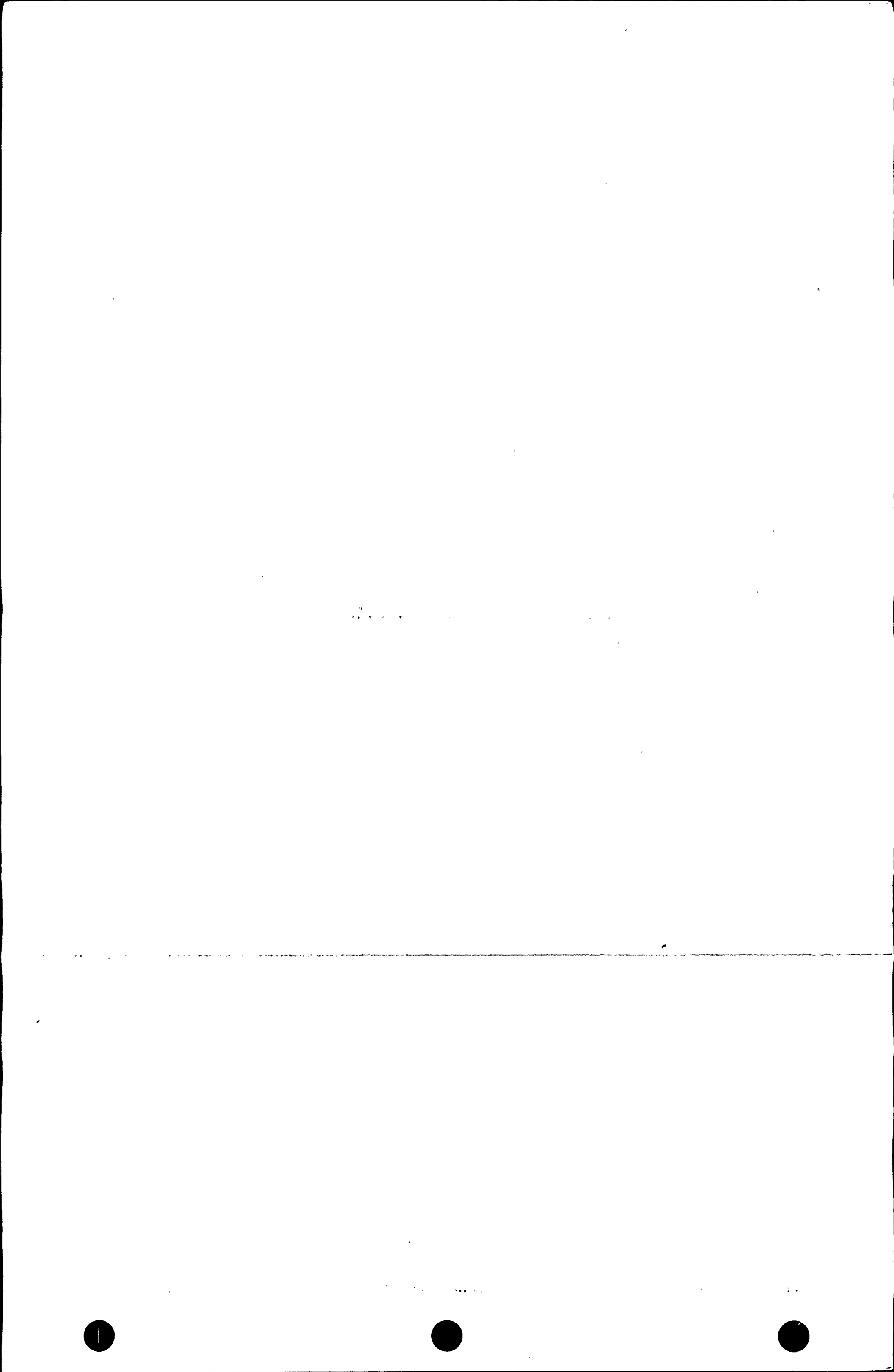
REV.	DESCRIPTION	DATE	BY	CHK	APP'D

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
 RESIDUAL HEAT REMOVAL

FSAR FIGURE 54-11-4  
 PP&L DRAWING: E-106236, Sh. 4



**MODE A (SEE NOTE 18)**

DESIGN PRESSURE 30 PSIG ABOVE DESIGN PRESSURE

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE B (SEE NOTE 18)**

DESIGN PRESSURE 30 PSIG ABOVE DESIGN PRESSURE

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE C-1**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE C-2 (SEE NOTE 18)**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE D**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE E**

DESIGN PRESSURE 30 PSIG (SEE NOTE 6)

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE F**

DESIGN PRESSURE 30 PSIG

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE G (SEE NOTE 18)**

DESIGN PRESSURE 30 PSIG ABOVE DESIGN PRESSURE

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE H**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE J**

DESIGN PRESSURE 30 PSIG (SEE NOTE 11)

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE K**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

DESIGN PRESSURE (TEMPERATURE, GIVEN BELOW IS FOR INFORMATION ONLY AND IS THE BASIS FOR THE DESIGN OF BOND SUPPLIED EQUIPMENT

**MODE L**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE M**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**MODE N**

POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FLOW-GPM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PRESS-PSIA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TEMP. °F	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MAX. PRESS. DROP-FEET	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**TABLE 1 VALVE POSITION CHART (SEE NOTE 7)**

MODE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
MODE A																											
MODE B																											
MODE C																											
MODE D																											
MODE E																											
MODE F																											
MODE G																											
MODE H																											
MODE I																											
MODE J																											

**TABLE 2 LEAKING LINE LOSS**

MODE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
MODE A																											
MODE B																											
MODE C																											
MODE D																											
MODE E																											
MODE F																											
MODE G																											
MODE H																											
MODE I																											
MODE J																											

**LEGEND**  
 PS = PRESSURE  
 TDH = TOTAL DYNAMIC HEAD

**REFERENCE SYMBOLS**

- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...

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- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...
- ACCEPTOR VALVE LINE SHALL BE SHOWN WITH...

- 0 = VALVE OPEN
- 1 = VALVE CLOSED
- 2 = VALVE PARTIALLY OPEN
- 3 = VALVE PARTIALLY CLOSED
- 4 = VALVE OPEN TO... (SEE NOTE 7)
- 5 = VALVE PARTIALLY TO... (SEE NOTE 7)

**REVISION REFLECTS ORIGINAL DESIGN CONDITIONS**

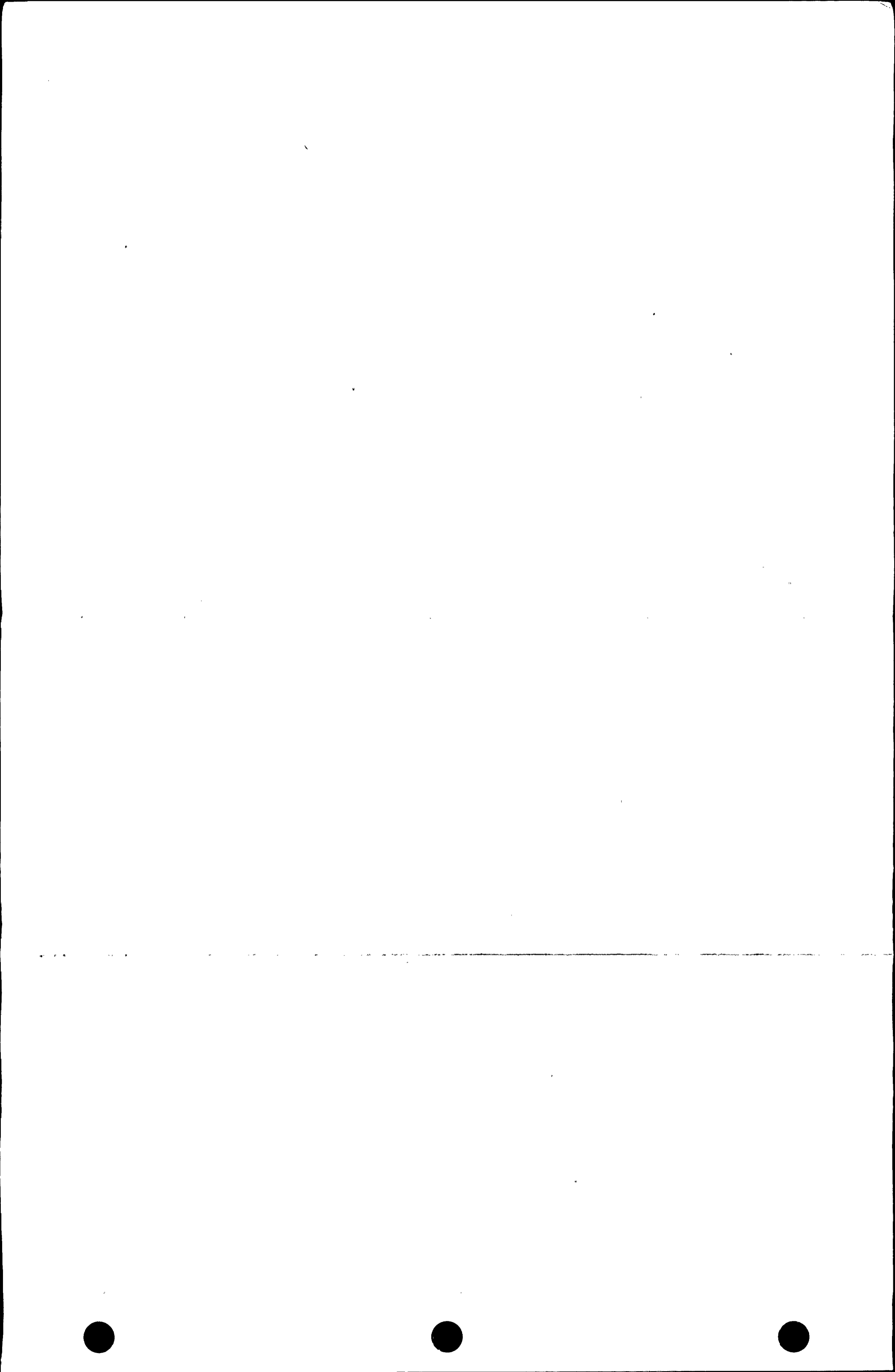
FSAR REV. 49, 04/96

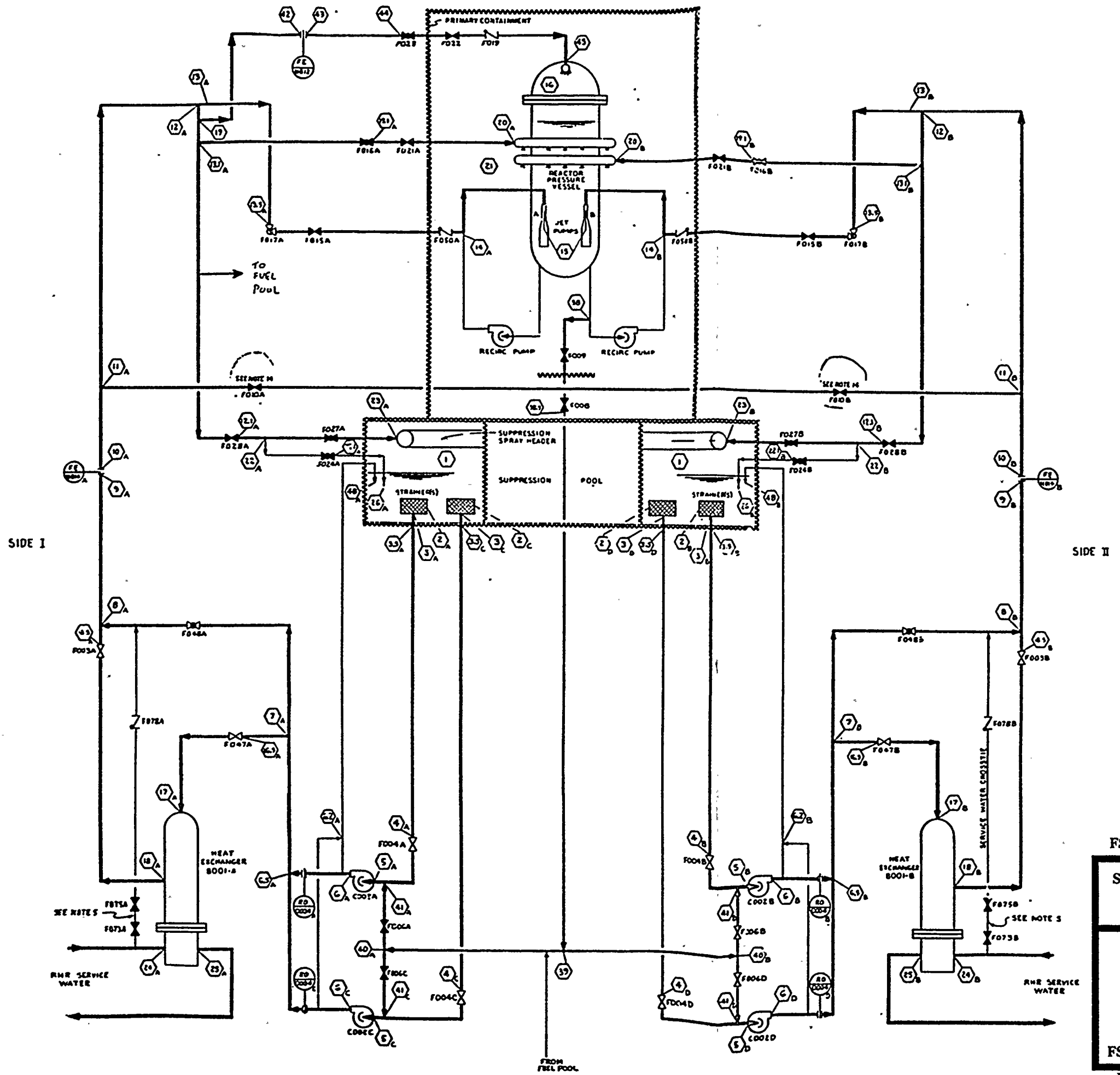
SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

RHR PROCESS DIAGRAM

FSAR FIGURE 5.4-12-1

PP&L DRAWING FF-124510, Sh. 301





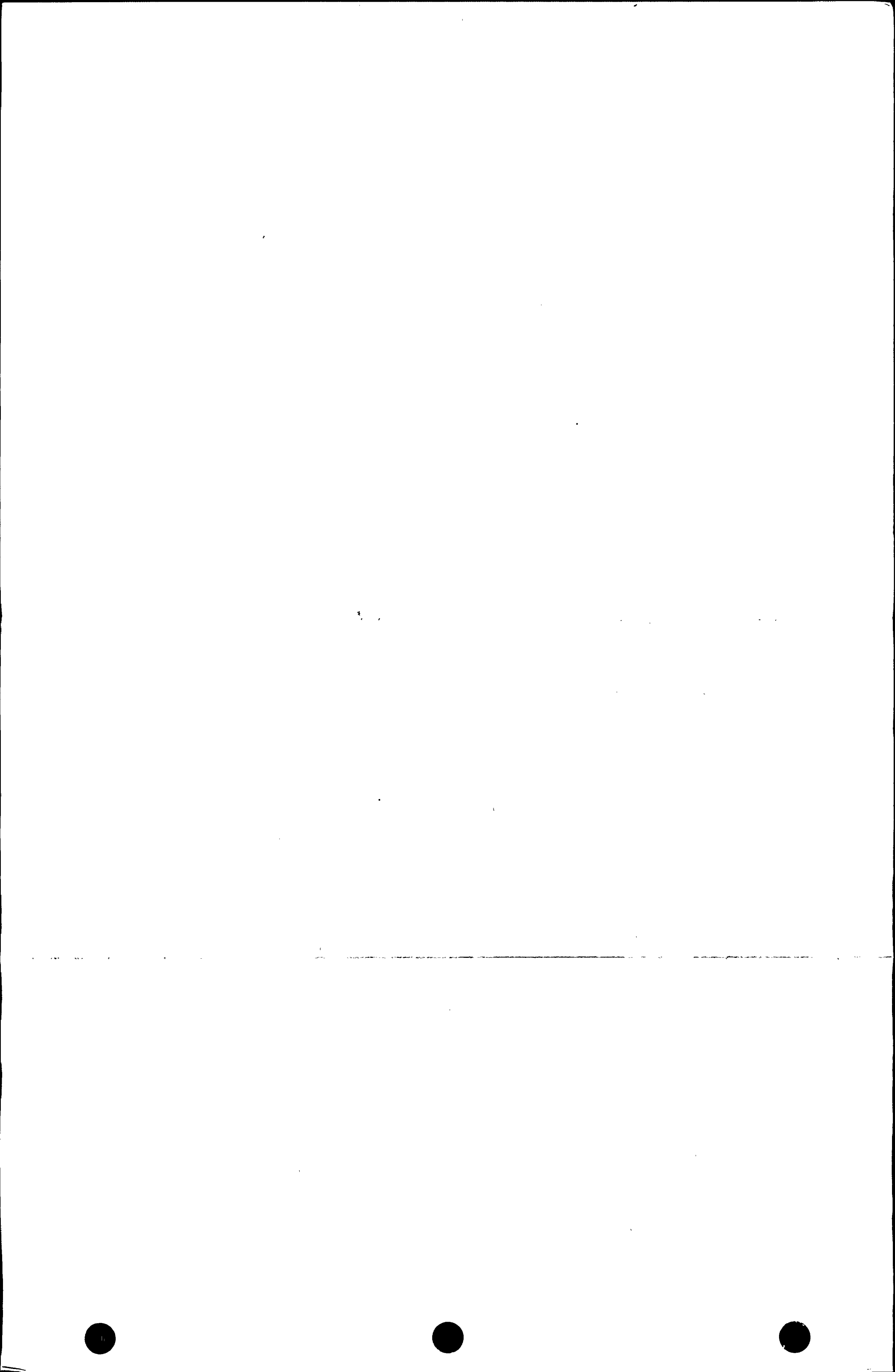
FSAR REV. 49, 04/96

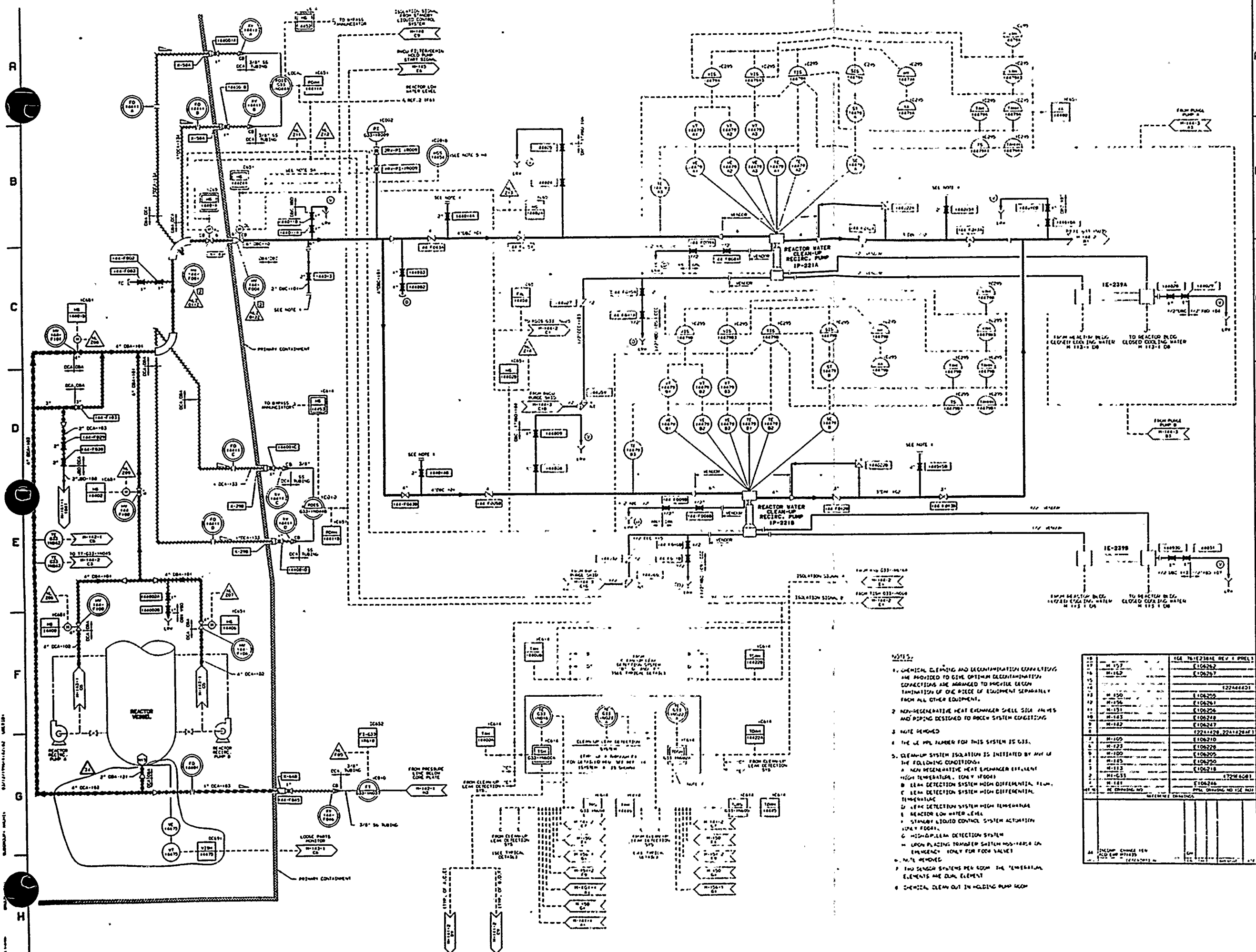
SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

RHR PROCESS DIAGRAM

FSAR FIGURE 5.4-12-2

PP&L DRAWING FF-124510, Sh. 302





**NOTES:**

- CHEMICAL CLEANING AND DECONTAMINATION CAPABILITIES ARE PROVIDED TO GIVE OPTIMUM DECONTAMINATION. CAPABILITIES ARE ARRANGED TO PROVIDE LOCAL TREATMENT OF THE PIECE OF EQUIPMENT SEPARATELY FROM ALL OTHER EQUIPMENT.
- NON-REGENERATIVE HEAT EXCHANGER SHELL SIDE PIPES AND PIPING DESIGNED TO PREVENT SYSTEM CORROSION.
- NOTE REMOVED.
- THE LEAK RATE FOR THIS SYSTEM IS 0.33.
- CLEAN-UP SYSTEM ISOLATION IS INITIATED BY ANY OF THE FOLLOWING CONDITIONS:
  - A. HIGH REGENERATIVE HEAT EXCHANGER EFFLUENT HIGH TEMPERATURE - (ONLY 10000)
  - B. LEAK DETECTION SYSTEM HIGH DIFFERENTIAL FLOW.
  - C. LEAK DETECTION SYSTEM HIGH DIFFERENTIAL TEMPERATURE.
  - D. LEAK DETECTION SYSTEM HIGH TEMPERATURE.
  - E. REACTOR LOW WATER LEVEL.
  - F. STANDBY LIQUID CONTROL SYSTEM ACTUATION LOCAL FOOT.
  - G. HIGH-TEMPERATURE DETECTION SYSTEM.
  - H. UPON PLACING TRIPPER SWITCH POS-TRIP IN EMERGENCY - ONLY FOR FOOT VALVES.
- NOTE REMOVED.
- TWO SENSOR SYSTEMS PER ROOM THE TEMPERATURE ELEMENTS ARE DUAL ELEMENT.
- CHEMICAL CLEAN OUT IN HOLDING PUMP ROOM.

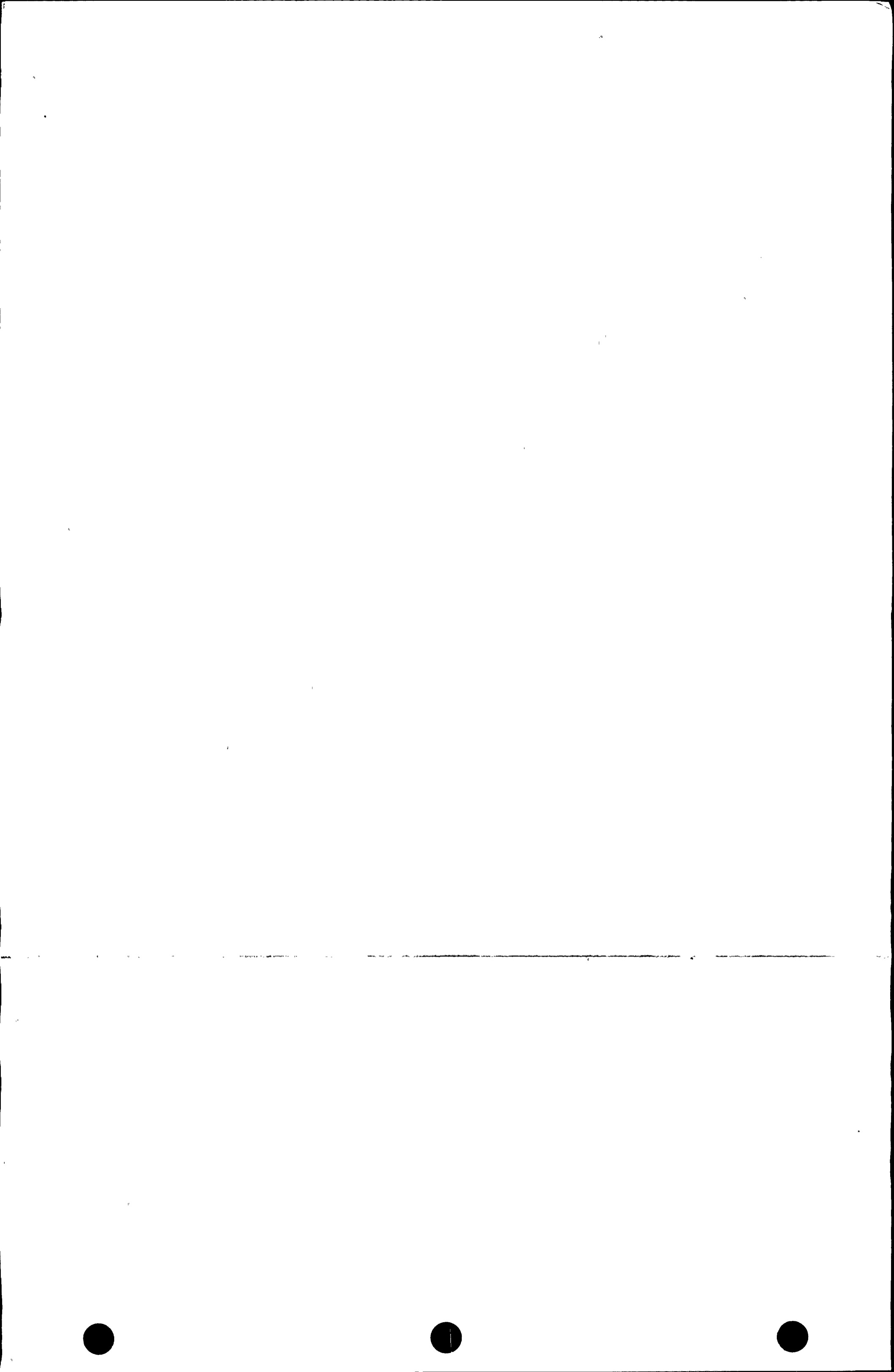
NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	10/27/84	J. J. ...
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3	REVISION	11/14/84	J. J. ...
4	REVISION	11/14/84	J. J. ...
5	REVISION	11/14/84	J. J. ...
6	REVISION	11/14/84	J. J. ...
7	REVISION	11/14/84	J. J. ...
8	REVISION	11/14/84	J. J. ...
9	REVISION	11/14/84	J. J. ...
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26	REVISION	11/14/84	J. J. ...
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28	REVISION	11/14/84	J. J. ...
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FSAR REV. 49, 04/96

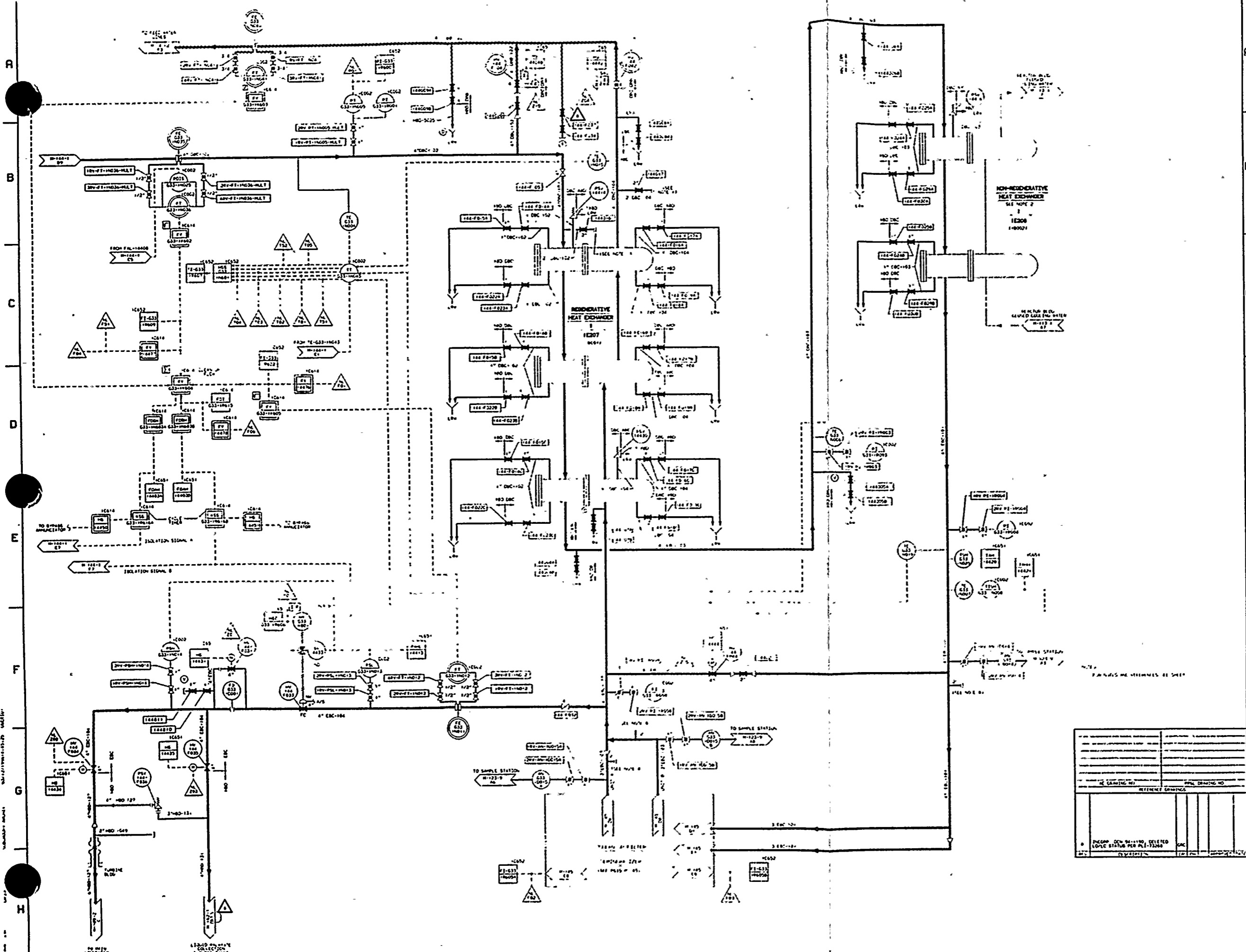
**SUSQUEHANNA STEAM ELECTRIC STATION  
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**P&ID - UNIT 1  
REACTOR WATER CLEANUP**

FSAR FIGURE 5-4-14-1  
PP&L DRAWING: E-106249, Sh. 1







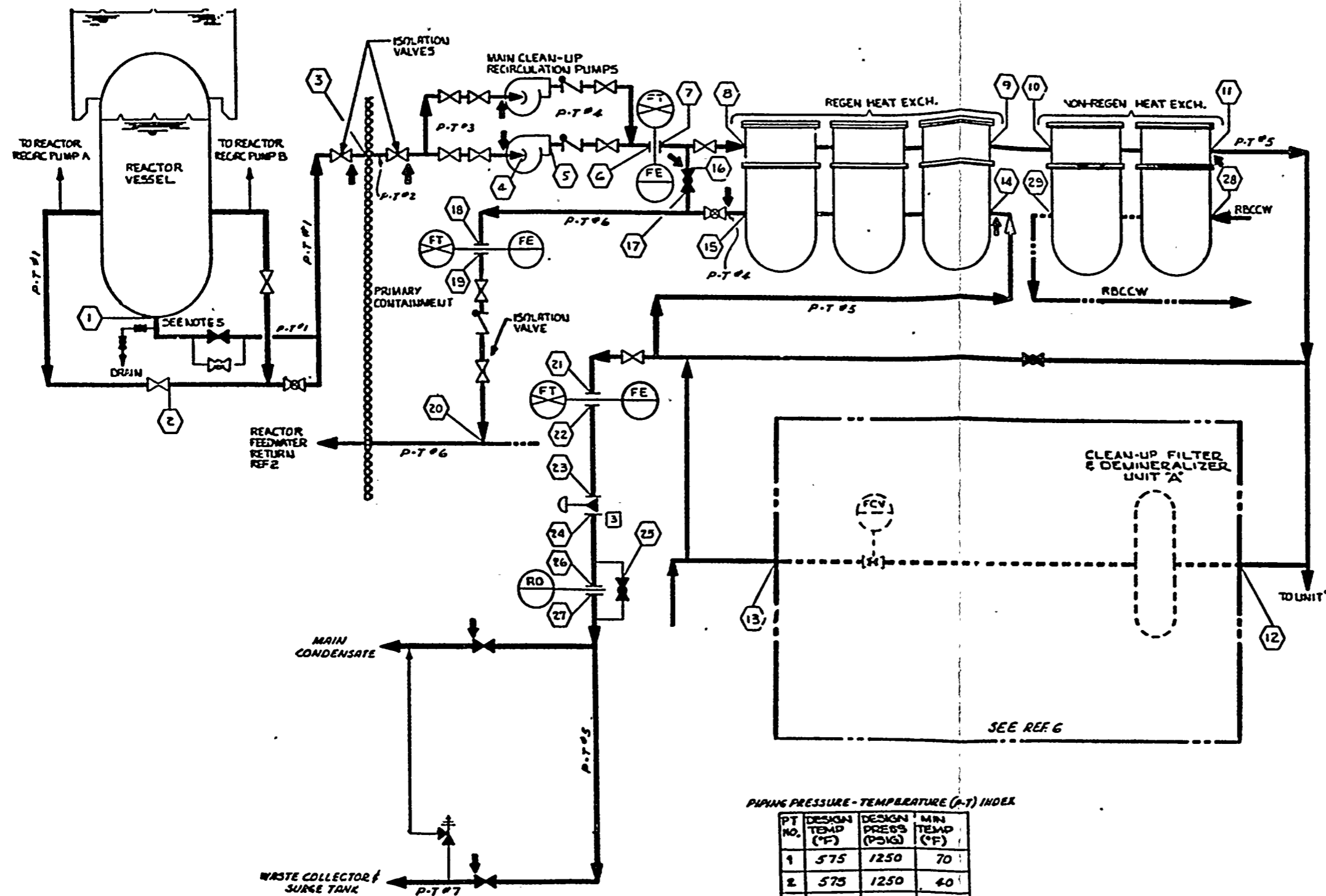

FSAR REV. 49, 04/96

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FINAL SAFETY ANALYSIS REPORT

P&ID - UNIT 1  
REACTOR WATER CLEANUP

FSAR FIGURE 5.4-14-2  
PP&L DRAWING E-106249, Sh. 2





**NOTES:**

1. Positions 28 & 29 indicate cleanup conditions with various RBCCW inlet temperatures.
2. For backwash & precoat frequency see Ref 7 or 8.
3. For details on filter & demineralizer system see process flow diagram filter/demineralizer Ref. 6.
4. Valves are shown in their normal operating position.
5. For details of the reactor vessel bottom drain connections see Ref. 5.
6. The maximum allowable pipe friction drop for the sizing of the cleanup recirculation pumps' suction piping from positions 1 through 4 shall be controlled by Mode B and the NPSH shall not be below the minimum as shown. Mode "A" shall control the sizing of the discharge piping and the maximum allowable pipe friction drop as shown should not be exceeded.
7. For data pertaining to numbers within hexagons, refer to process data Ref. 1.
8. Mode "A" design basis for heat exchangers and no flow is required at position 16, 17, 21 thru 27.
9. Mode "B" design basis for main clean-up pump (max. capacity and min. NPSH) and sizing of main pump suction piping. No flow req'd. in Mode "B" position 8 thru 15 & 21 thru 29.
10. Piping design pressure and temperature given below is for information only.

**NOTE:**

System selection options are indicated by multiple MPL item numbers

Reference Document:	MPL Item No.
1. Reactor Water Clean-up Sys Process Data	G33-1080
2. Reactor Water Clean-up System P&ID	G33-1010
3. Reactor Water Clean-up System Design Spec.	G33-4010
4. Reactor System Outline Dwg.	A61-2050
5. Reactor Vessel Outline Dwg.	A61-5040
6. Filter/Demineralizer System	G33/2001
7. Radwaste System P.D.	G11, G12-1020
8. Plant Requirements Sect. 4	A61-4020

PIPING PRESSURE - TEMPERATURE (P-T) INDEX

PT NO.	DESIGN TEMP (°F)	DESIGN PRESS (PSIG)	MIN TEMP (°F)
1	575	1250	70
2	575	1250	60
3	575	1150	60
4	575	1300	60
5	150	1300	60
6	BY OTHERS	BY OTHERS	60
7	150	150	60

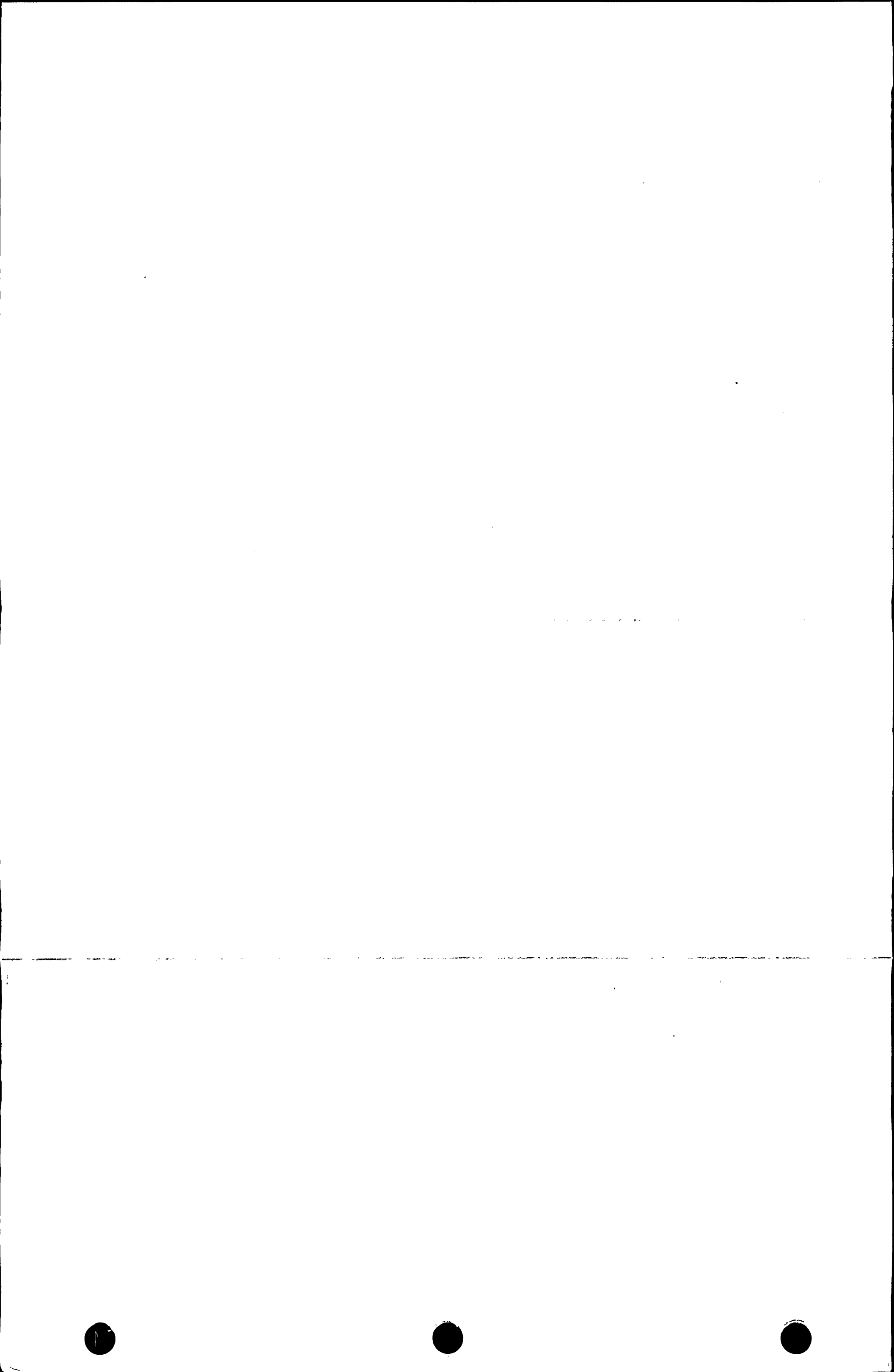
FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

REACTOR WATER CLEANUP  
SYSTEM PROCESS DIAGRAM

FSAR FIGURE 5.4-15A

PP&L DRAWING FF-133010, Sh. 1601



MODE A NORMAL OPERATION

R.S.S. 1020. PSIA

(SEE NOTES 1, 6, AND 8 OF PROCESS DIAGRAM)

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	28	29	28	29	28	29
FLOW GPM	63	145	352	352	352	352	352	352	280	280	269	134	134	269	318	/	/	318	318	318	/	/	/	/	/	/	/	468	475	516	524	610	678	678	686
TEMP. F.	533	533	533	533	534	534	534	534	233	233	120	120	120	120	437	/	/	437	437	437	/	/	/	/	/	/	/	85	150	95	154	100	150	105	150
MAXIMUM PRESSURE DROP PSID	185 TDH    165 TDH    4    4    10    10    10    10    59    59    10    10    4    4 ALLOWABLE PIPE FRICTION DROPS (NOTE 6 OF PROCESS DIAGRAM)																				10														

MODE B HOT SHUTDOWN OPERATION (WITH LOSS OF RPV RECIRC PUMPS)

R.S.S. 1003. PSIA

(SEE NOTES 1 AND 9 OF PROCESS DIAGRAM)

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29				
FLOW GPM	162	98	358	358	358	358	358	/	/	/	/	/	/	/	/	358	358	358	358	358	/	/	/	/	/	/	/	/	/	/	/	/	/
TEMP. F.	540	545	543	543	544	544	544	/	/	/	/	/	/	/	/	544	544	544	544	544	/	/	/	/	/	/	/	/	/	/	/	/	/
MAXIMUM PRESSURE DROP PSID	161 TDH    161 TDH    4    4    146    146    4    4 ALLOWABLE PIPE FRICTION DROPS (NOTE 6 OF PROCESS DIAGRAM)																																

NOTES:

1. PROCESS DIAGRAM 9210855 SHALL BE USED WITH & FORM A PART OF THIS PROCESS DATA. IF THERE ARE ANY CONFLICTS BETWEEN THE PROCESS DIAGRAM & THIS PROCESS DATA, THE PROCESS DATA SHALL GOVERN.
2. / INDICATES CONDITIONS FOR 0 FLOW RATE.
3. THE MINIMUM REQUIRED NPSH OF THE CLEANUP RECIRC PUMPS IS 13 FEET, BASED ON CONDITIONS SHOWN IN MODE B.
4. THIS PROCESS DATA IS BASED ON ONE SEAL-LESS CLEANUP PUMP IN OPERATION.
5. THIS REVISION DOES NOT REFLECT POWER UPRATE CONDITIONS AND THE 10% INCREASE IN RWC SYSTEM FLOW.

FSAR REV. 49, 04/96

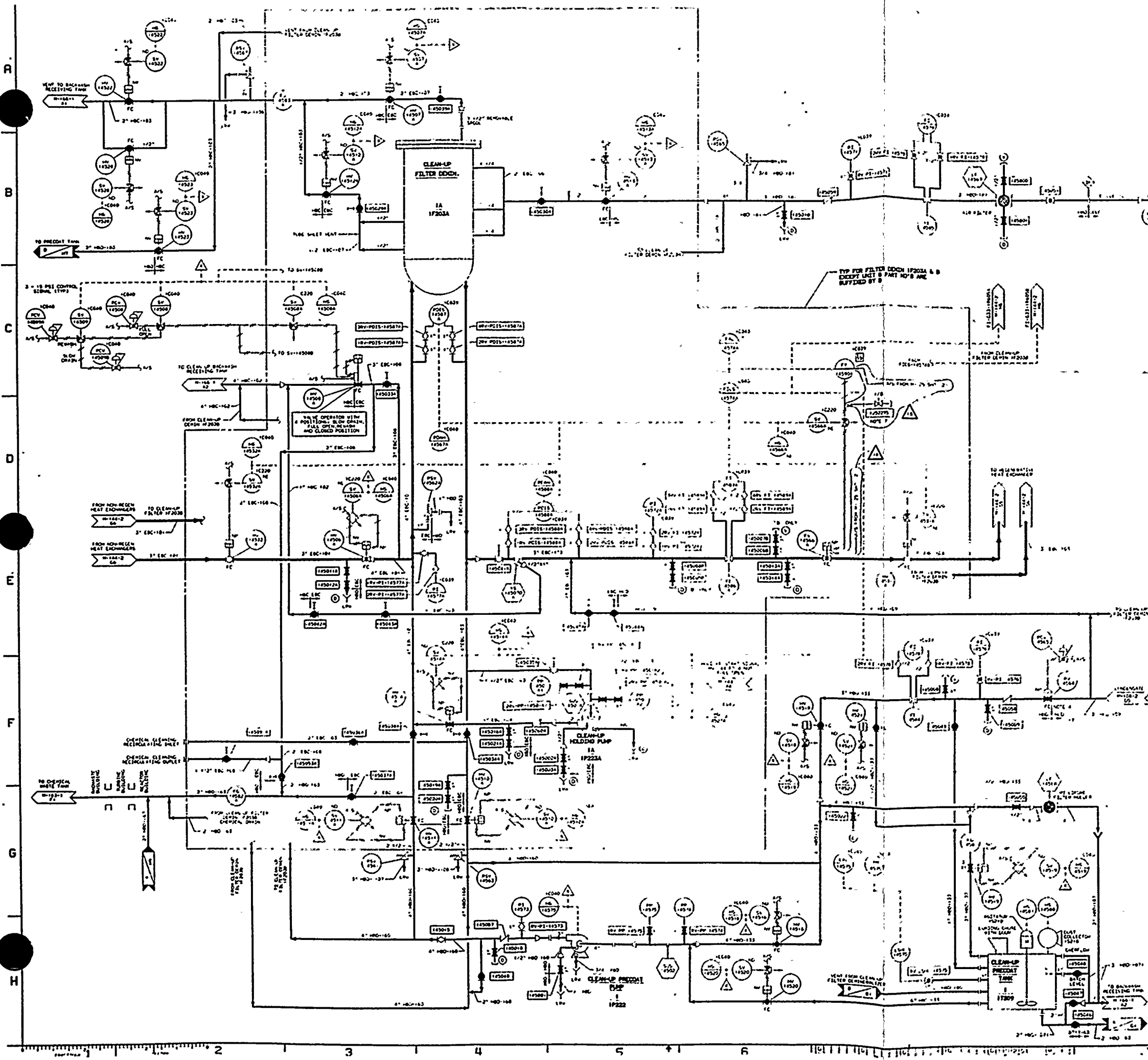
SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

REACTOR WATER CLEANUP  
SYSTEM PROCESS DIAGRAM

FSAR FIGURE 5.4-15B

PP&L DRAWING FF-133010, Sh. 1801





- NOTES:
1. ALL NEW PLANNED EQUIPMENT, VALVES AND INSTRUMENTS ARE UNDER W.P. NO. 633-2001.
  2. ALL NEW OPERATED VALVES ARE SHOWN IN FILTERING PROCESS POSITION.
  3. ALL REMOTE INSTRUMENTS AND CONTROLS WITH THE DRAWING SHOULD BE ARRANGED ON PREVIOUS INSTRUMENT ONLY (S. CHECKER NO. 10039) AND CONTROL PANEL NO. 10040.
  4. VALVE 17203A SHOULD NOT BE USED AS A BLOCKING POINT FOR BLENDING AND IS TO BE POSSIBLE BEING EXIST TO HOLD IN IN THE CLOSED POSITION.
  5. NOTE REMOVED
  6. NOTE REMOVED
  7. PART B TAG NO. IS 275276

REV.	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	11/27/83	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...

PROJECT NO.	E106250
SHEET NO.	1 OF 1
DRAWING NO.	M-145
SHEET NO.	1 OF 1

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SUSQUEHANNA STEAM ELECTRIC STATION  
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P&ID - UNIT 1  
CLEANUP FILTER DEMINERALIZER

FSAR FIGURE 5.4-16  
PP&I DRAWING E-106250, Sh. 1

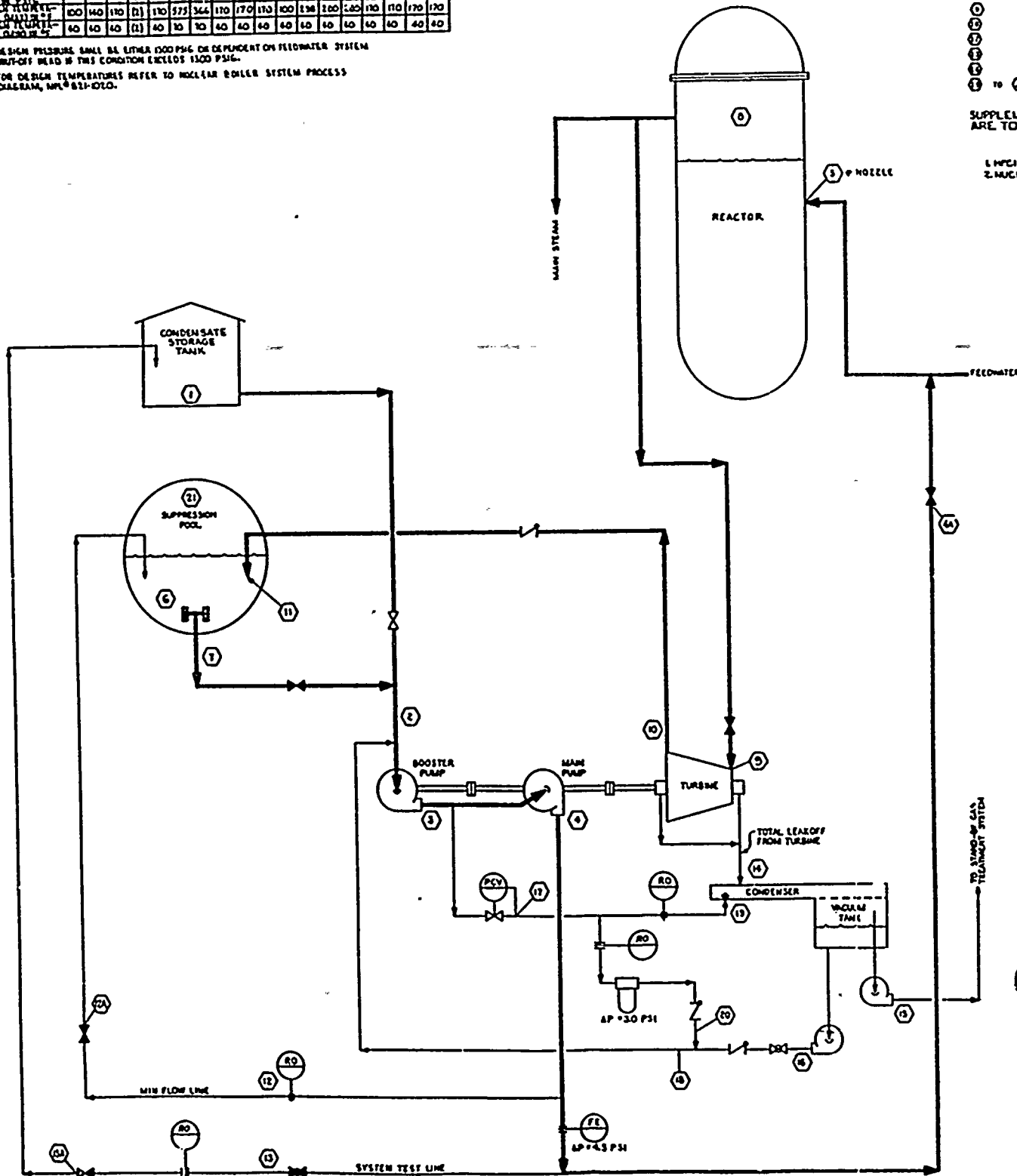




MISCELLANEOUS INFORMATION  
 DESIGN PRESSURES AND TEMPERATURES GIVEN BELOW ARE FOR INFORMATION ONLY, AND ARE THE BASIS FOR DESIGN OF APED SUPPLIED EQUIPMENT.

LOCATION	1-2	3-7	8-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-35	36-37	38-39	40-41	42-43
DESIGN PRESSURE - PSIA	115	140	170	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
DESIGN TEMPERATURE - °F	100	140	170	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175

- (1) DESIGN PRESSURE SHALL BE EITHER 1000 PSIG OR DEPENDENT ON FEEDWATER SYSTEM SHUT-OFF HEAD IN THIS CONDITION EXCEPT 1500 PSIG.  
 (2) FOR DESIGN TEMPERATURES REFER TO NUCLEAR BOILER SYSTEM PROCESS DIAGRAM, MP# 621-1210.



THE PRESSURE AT THIS LOCATION DEPENDS UPON PIPING ARRANGEMENTS, AND MAY BE VARIED WITHIN THE FOLLOWING LIMITS.

LOCATION: 1  
 MAXIMUM PRESSURE AT PUMP SECTION = 21 FEET  
 MAXIMUM PUMP TOTAL DYNAMIC HEAD  
 = 2340 FT @ HIGH PRESS MODE  
 = 323 FT @ LOW PRESS MODE  
 MAXIMUM PRESSURE DROP BETWEEN LOCATIONS 1 AND 11 = 15 PSI  
 MAXIMUM PRESSURE = 65 PSIA  
 SUFFICIENT PRESSURE TO RETURN TO SUPPRESSION POOL  
 SUFFICIENT PRESSURE TO RETURN TO COND. STORAGE  
 MAXIMUM PRESSURE AVAILABLE = 65 PSIA  
 SUFFICIENT PRESSURE TO RETURN TO PUMP SECTION DURING OPERATION.

SUPPLEMENTAL DOCUMENTS UNDER THE FOLLOWING IDENTITIES ARE TO BE USED IN CONJUNCTION WITH THIS DRAWING:

1. HPCI SYSTEM P&ID - E-41-1000  
 2. NUCLEAR BOILER PROCESS DIAGRAM - 621-1210

REFERENCE DESIGNATOR

- NOTES:
- ATMOSPHERIC PRESSURE OF 14.7 PSIA WAS USED IN CALCULATIONS.
  - WATER FLOWS ARE SHOWN IN GPM, STEAM FLOWS IN 1000 LB-HR.
  - THE SUPPRESSION POOL WATER TEMPERATURE FOR CONTINUOUS SYSTEM OPERATION WILL NOT EXCEED 180°F. HOWEVER, DUE TO POTENTIAL SHORT TERM OPERATION AT HIGHER TEMPERATURES, PIPING EXPANSION SHALL BE BASED ON 180°F.
  - THE FOLLOWING ADDITIONAL ACCIDENT OPERATING MODES ARE POSSIBLE:  
 SECTION FROM CONDENSATE STORAGE, SUPPRESSION POOL AT LOW PRESSURE, REACTOR AT HIGH OR LOW PRESSURE.  
 SECTION FROM SUPPRESSION POOL, SUPPRESSION POOL AT HIGH PRESSURE, REACTOR AT HIGH OR LOW PRESSURE.  
 THESE POTENTIAL OPERATING MODES DO NOT CONTROL PIPE OR VALVE SIZING OR SPECIFICATION, AND NO DATA IS SHOWN.
  - THE CONTROLLING MODES FOR LINE SIZING AND ARRANGEMENT ARE:  
 SECTION FROM COND. STORAGE - - - - - MODE A  
 SECTION FROM SUPPRESSION POOL - - - - - MODE C  
 PUMP DISCHARGE - - - - - MODE C  
 STEAM SUPPLY - - - - - MODE A & B  
 RADIANT EXHAUST - - - - - MODE A, C & B  
 TEST LINE - - - - - MODE C  
 COOLING SYSTEM - - - - - MODE A
  - THE PRESSURE AT LOCATION 1 IS ESTIMATED FROM PUMP DATA.
  - PUMP HEADLINE FLOW REVERSEMENT MAY OCCUR DURING ANY OPERATING MODE. LOW HEADROOM IS 3000 LPM. DRAINING, PURGING MODE A.
  - STEAM FLOWS FOR TEST MODE E, AT POSITIONS 3, 13, AND 14 ARE BASED UPON A PUMP TQM OF 2.538.

MODE A ACCIDENT MODE, SECTION FROM CONDENSATE STORAGE, REACTOR AT HIGH PRESSURE, SUPPRESSION POOL AT HIGH PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	3000	3070	3000	3000	0	0	0	0	0	0	0	0	0	0.5	0.05	20	70	70	20	50	0
OPERATING PRESSURE - PSIA	14.7	8	8	8	177	177	177	177	177	177	177	177	177	14.7	14.7	75	75	75	45	45	50
OPERATING TEMPERATURE - °F	100	100	100	100	100	100	100	100	100	100	100	100	100	140	200	200	200	170	170	170	140

MODE B ACCIDENT MODE, SECTION FROM CONDENSATE STORAGE, REACTOR AT LOW PRESSURE, SUPPRESSION POOL AT HIGH PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	3000	3070	3000	3000	0	0	0	0	0	0	0	0	0	0.5	0.05	20	70	70	20	50	0
OPERATING PRESSURE - PSIA	14.7	8	8	8	177	177	177	177	177	177	177	177	177	14.7	14.7	75	75	75	45	45	50
OPERATING TEMPERATURE - °F	100	100	100	100	100	100	100	100	100	100	100	100	100	140	200	200	200	170	170	170	140

MODE C ACCIDENT MODE, SECTION FROM SUPPRESSION POOL, REACTOR AT HIGH PRESSURE, SUPPRESSION POOL AT HIGH PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	3000	3070	3000	3000	0	0	0	0	0	0	0	0	0	0.5	0.05	20	70	70	20	50	0
OPERATING PRESSURE - PSIA	14.7	8	8	8	177	177	177	177	177	177	177	177	177	14.7	14.7	75	75	75	45	45	50
OPERATING TEMPERATURE - °F	100	100	100	100	100	100	100	100	100	100	100	100	100	140	200	200	200	170	170	170	140

MODE D ACCIDENT MODE, SECTION FROM SUPPRESSION POOL, REACTOR AT LOW PRESSURE, SUPPRESSION POOL AT LOW PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	3000	3070	3000	3000	0	0	0	0	0	0	0	0	0	0.5	0.05	20	70	70	20	50	0
OPERATING PRESSURE - PSIA	14.7	8	8	8	177	177	177	177	177	177	177	177	177	14.7	14.7	75	75	75	45	45	50
OPERATING TEMPERATURE - °F	100	100	100	100	100	100	100	100	100	100	100	100	100	140	200	200	200	170	170	170	140

MODE E TEST MODE, SECTION FROM CONDENSATE STORAGE, REACTOR AT HIGH PRESSURE, SUPPRESSION POOL AT LOW PRESS

LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	3000	3070	3000	3000	0	0	0	0	0	0	0	0	0	0.5	0.05	20	70	70	20	50	0
OPERATING PRESSURE - PSIA	14.7	8	8	8	177	177	177	177	177	177	177	177	177	14.7	14.7	75	75	75	45	45	50
OPERATING TEMPERATURE - °F	100	100	100	100	100	100	100	100	100	100	100	100	100	140	200	200	200	170	170	170	140

MODE F SYSTEM STAND BY EQUIPMENT NOT OPERATING

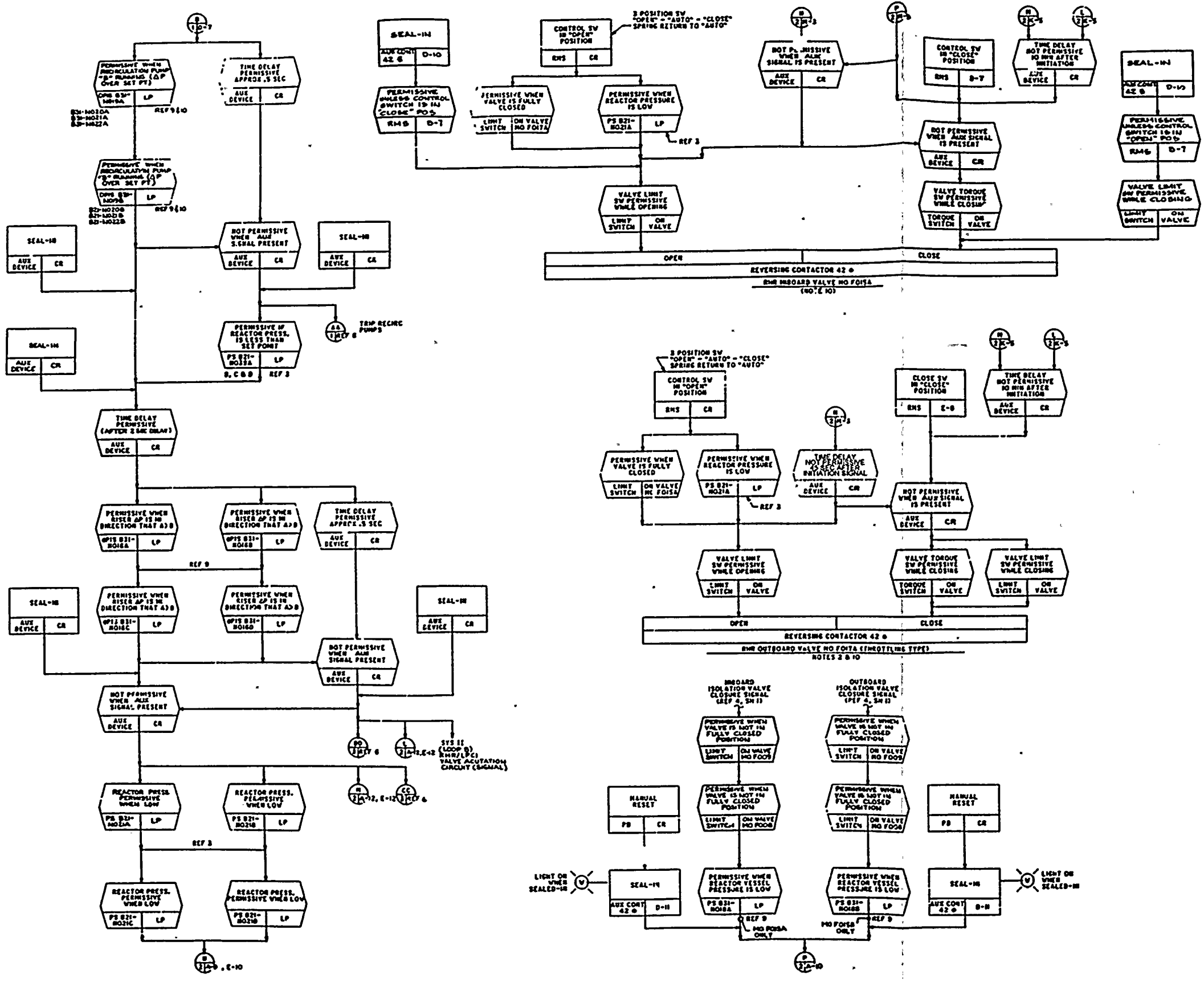
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
FLOW - SEE NOTE E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRESSURE - PSIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEMPERATURE - °F	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB	APB

REVISION REFLECTS ORIGINAL DESIGN CONDITIONS

FSAR REV. 49, 04/96  
 SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

HPCI PROCESS DIAGRAM  
 FSAR FIGURE 6.3-2  
 PP&L DRAWING FF-127250, Sh. 401



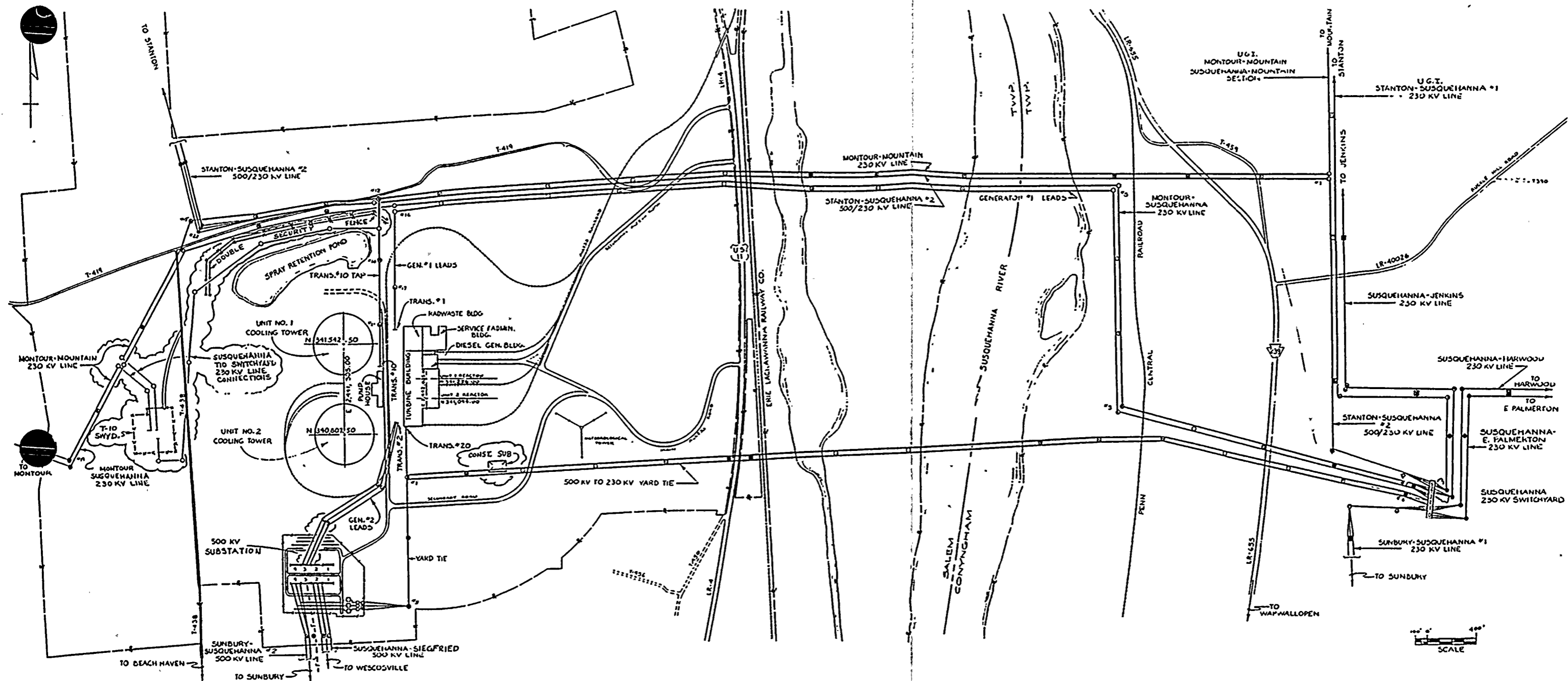


FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
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RHR SYSTEM  
 FUNCTIONAL CONTROL DRAWING





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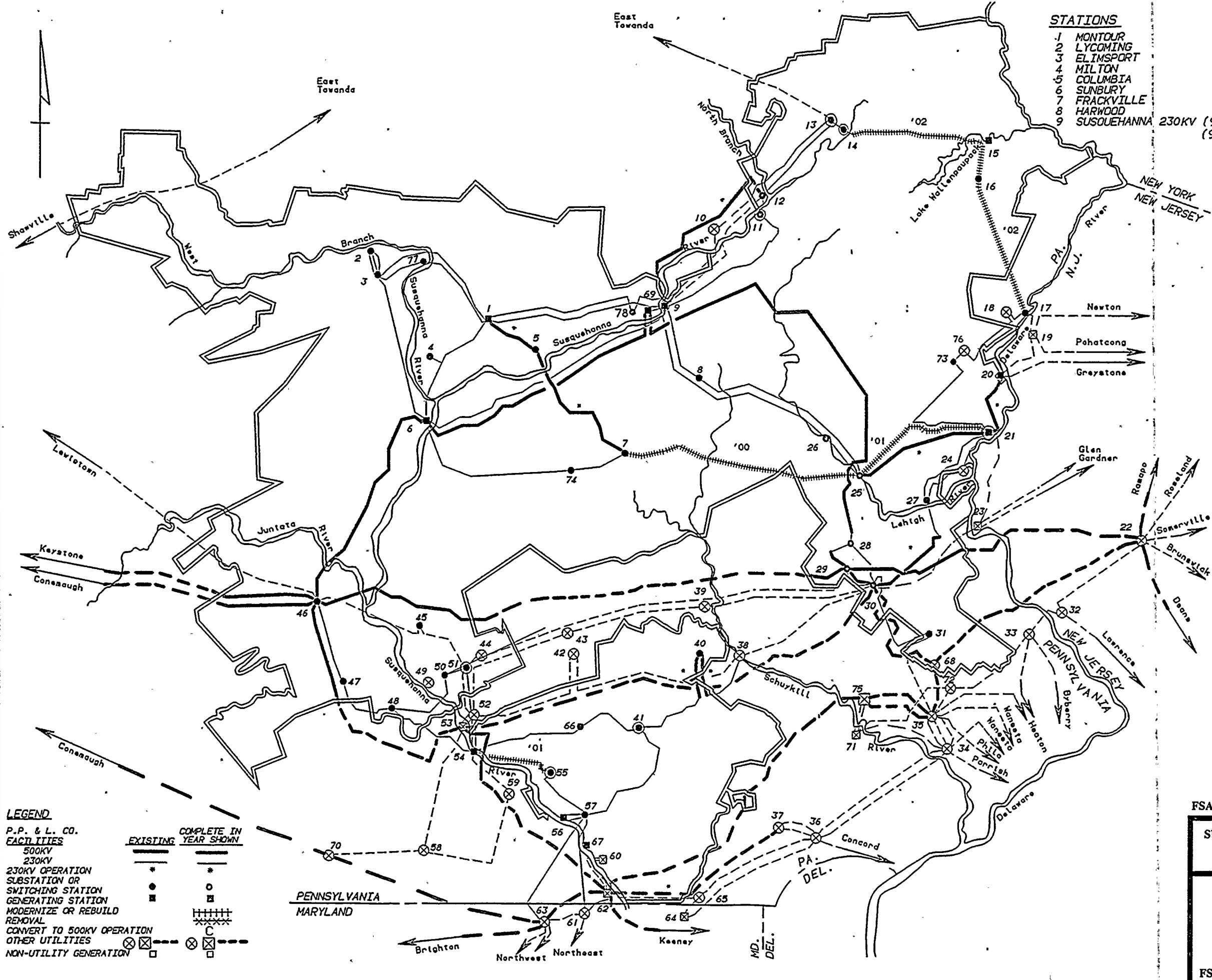
**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

**TRANSMISSION LINE  
ARRANGEMENT**

FSAR FIGURE 8.2-1

PP&L DRAWING D159760-1





**STATIONS**

- |    |                                |                  |
|----|--------------------------------|------------------|
| 1  | MONTOUR                        |                  |
| 2  | LYCOMING                       |                  |
| 3  | ELIMSPORT                      |                  |
| 4  | MILTON                         |                  |
| 5  | COLUMBIA                       |                  |
| 6  | SUNBURY                        |                  |
| 7  | FRACKVILLE                     |                  |
| 8  | HARWOOD                        |                  |
| 9  | SUSQUEHANNA 230KV (96)         |                  |
| 10 | MOUNTAIN                       |                  |
| 11 | JENKINS                        | (01)             |
| 12 | STANTON                        |                  |
| 13 | LACKAWANNA                     | (97), (99), (01) |
| 14 | PECKVILLE                      | (01)             |
| 15 | WALLENPAUPACK                  |                  |
| 16 | BLOOMING GROVE                 |                  |
| 17 | BUSHKILL                       |                  |
| 18 | SHAWNEE                        |                  |
| 19 | KITTATINNY                     |                  |
| 20 | PORTLAND                       |                  |
| 21 | MARTINS CREEK (96), (98), (00) |                  |
| 22 | BRANCHBURG                     |                  |
| 23 | GILBERT                        |                  |
| 24 | NORTHWOOD                      |                  |
| 25 | SIEGFRIED                      |                  |
| 26 | EAST PALMERTON                 |                  |
| 27 | QUARRY                         |                  |
| 28 | WESCOSVILLE                    |                  |
| 29 | ALBURTIS                       |                  |
| 30 | HOSENSACK                      |                  |
| 31 | BUXMONT                        |                  |
| 32 | PLEASANT VALLEY                |                  |
| 33 | BUCKINGHAM                     |                  |
| 34 | PLYMOUTH MEETING               |                  |
| 35 | WHITPAIN                       |                  |
| 36 | BRADFORD                       |                  |
| 37 | NEW INVILLE                    |                  |
| 38 | SOUTH READING                  |                  |
| 39 | NORTH TEMPLE                   |                  |
| 40 | BERKS                          |                  |
| 41 | SOUTH AKRON                    | (96)             |
| 42 | SOUTH LEBANON                  |                  |
| 43 | NORTH LEBANON                  |                  |
| 44 | NORTH HERSHEY                  |                  |
| 45 | DAUPHIN                        |                  |
| 46 | JUNIATA                        |                  |
| 47 | CUMBERLAND                     |                  |
| 48 | WEST SHORE                     |                  |
| 49 | STEELTON (BETH STEEL CO.)      |                  |
| 50 | STEELTON                       |                  |
| 51 | HUMMELSTOWN                    | (97)             |
| 52 | MIDDLETOWN JCT.                |                  |
| 53 | THREE MILE ISLAND              |                  |
| 54 | BRUNNER ISLAND                 |                  |
| 55 | WEST HEMPFIELD                 | (96)             |
| 56 | SAFE HARBOR                    |                  |
| 57 | MANOR                          |                  |
| 58 | JACKSON                        |                  |
| 59 | YORKANA                        |                  |
| 60 | MUDDY RUN                      |                  |
| 61 | GRACETON                       |                  |
| 62 | PEACH BOTTOM                   |                  |
| 63 | CONASTONE                      |                  |
| 64 | CONOWINGO                      |                  |
| 65 | NOTTINGHAM                     |                  |
| 66 | SOUTH MANHEIM                  |                  |
| 67 | HOLWOOD                        |                  |
| 68 | ELROY                          |                  |
| 69 | SUSQUEHANNA 500KV              |                  |
| 70 | HUNTERSTOWN                    |                  |
| 71 | CROMBY                         |                  |
| 72 | N. WALES                       |                  |
| 73 | MONROE                         |                  |
| 74 | ELDRED                         |                  |
| 75 | LIMERICK                       |                  |
| 76 | FOXHILL                        |                  |
| 77 | CLINTON                        |                  |
| 78 | SUSQUEHANNA T-10 TAP           |                  |

**LEGEND**

P.P. & L. CO. FACILITIES

500KV  
230KV

230KV OPERATION SUBSTATION OR SWITCHING STATION  
GENERATING STATION  
MODERNIZE OR REBUILD  
REMOVAL  
CONVERT TO 500KV OPERATION  
OTHER UTILITIES  
NON-UTILITY GENERATION

EXISTING  
COMPLETE IN YEAR SHOWN

FSAR REV. 49, 04/96

**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

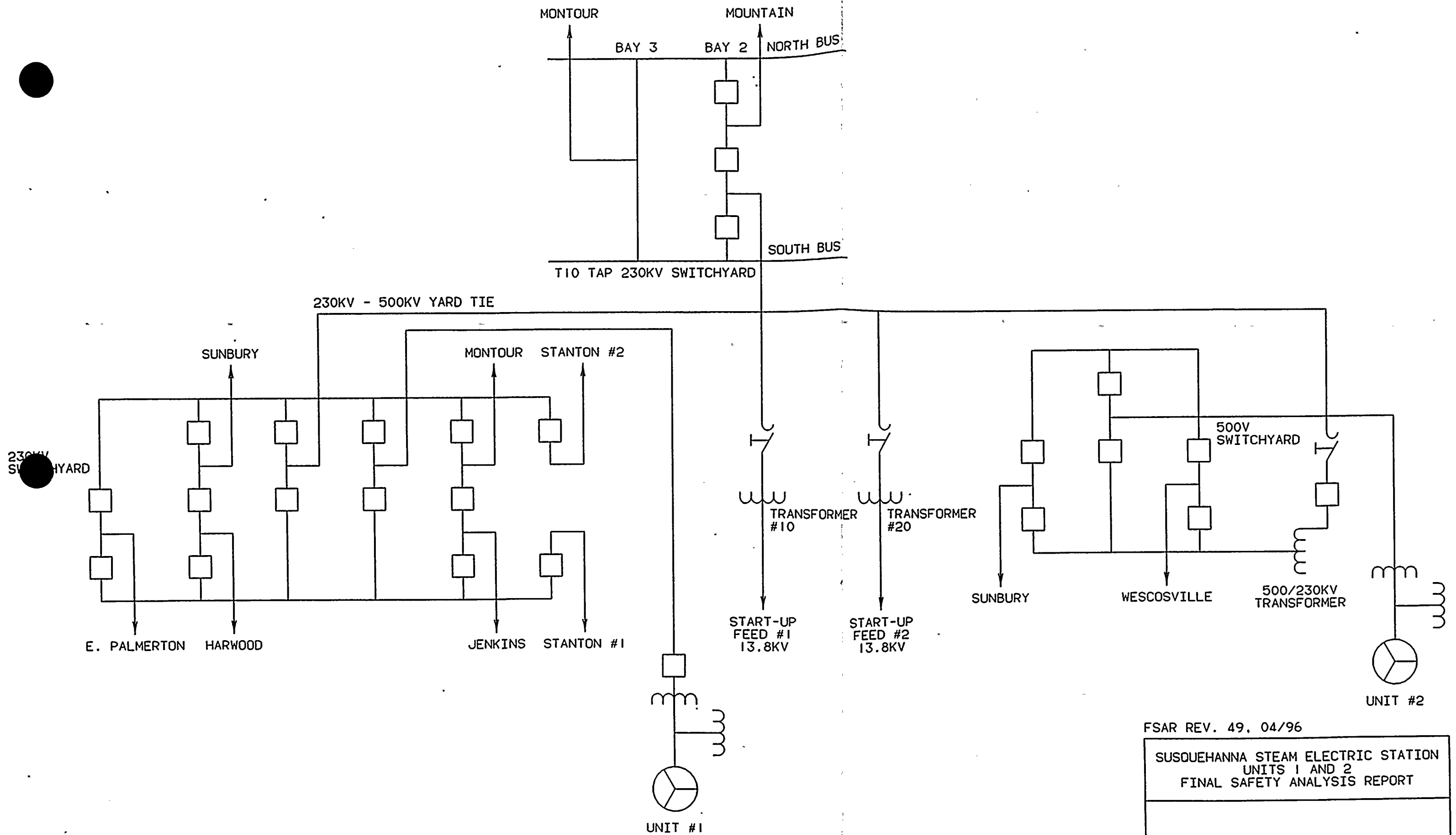
**BULK POWER SUPPLY SYSTEM OF  
PP&L AND ADJOINING SYSTEMS  
PLANNED THRU 2005**

FSAR FIGURE 8.2-2

PP&L DRAWING







FSAR REV. 49. 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

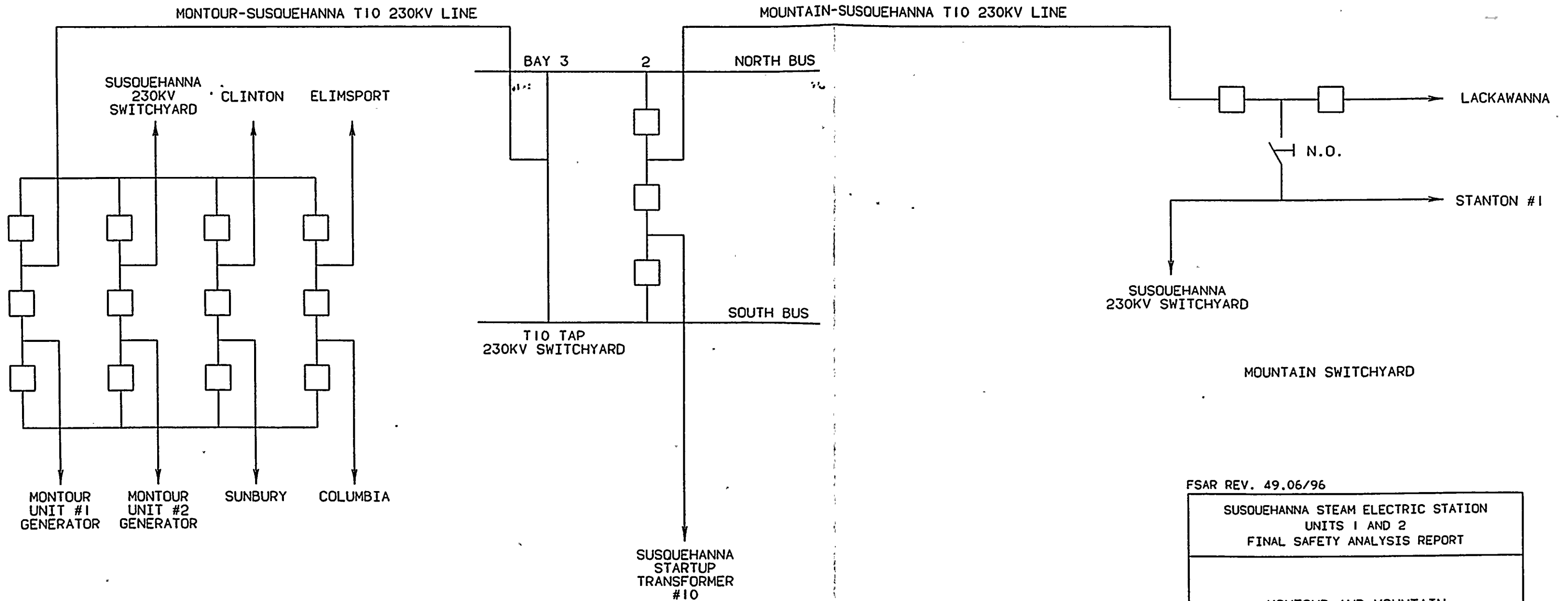
TRANSMISSION SYSTEM

FSAR FIGURE 8.2-3

PPUL DRAWING

FSAR .E.E.2-3...(NPE.EHOLD)





FSAR REV. 49.06/96

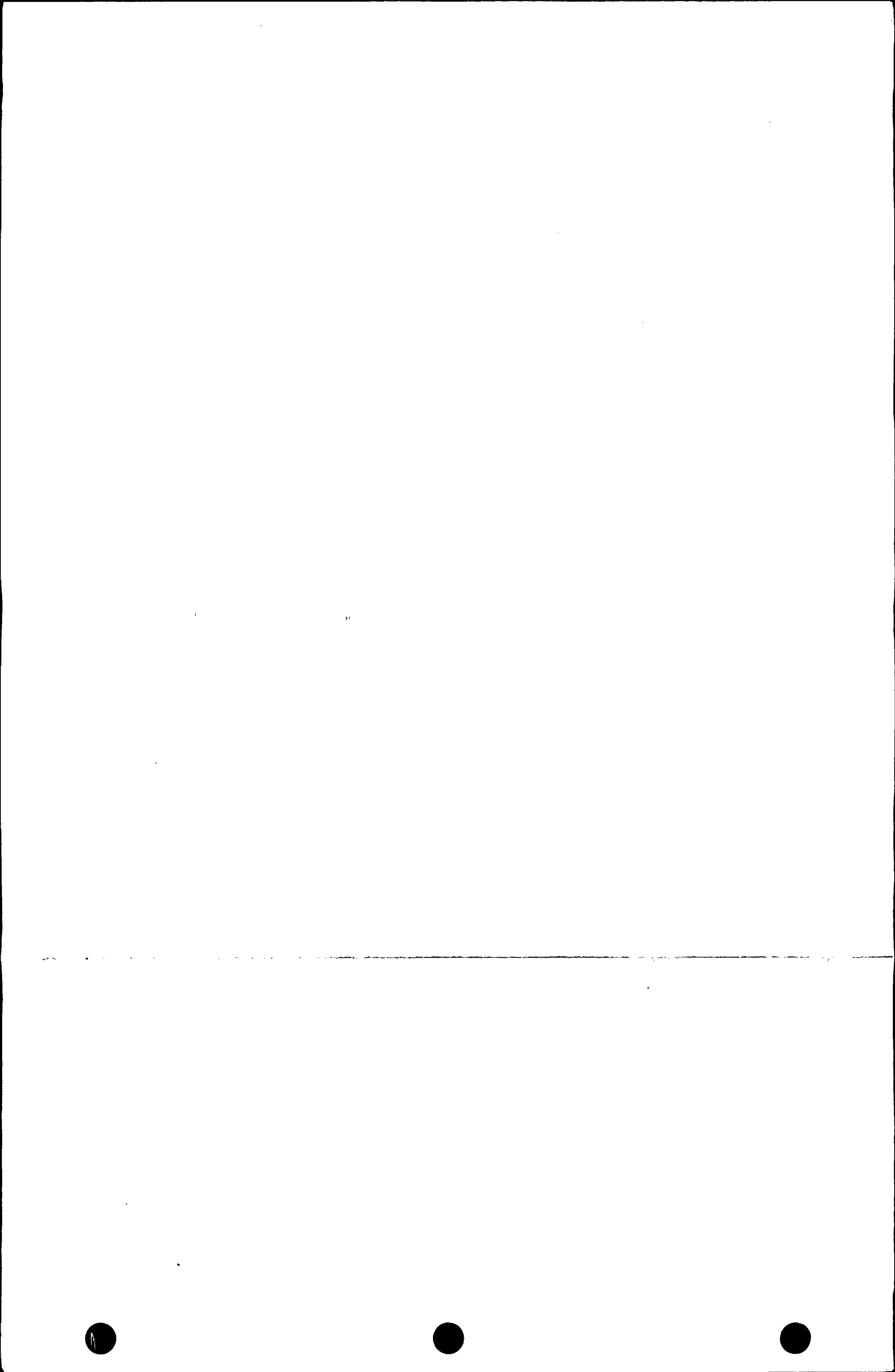
SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

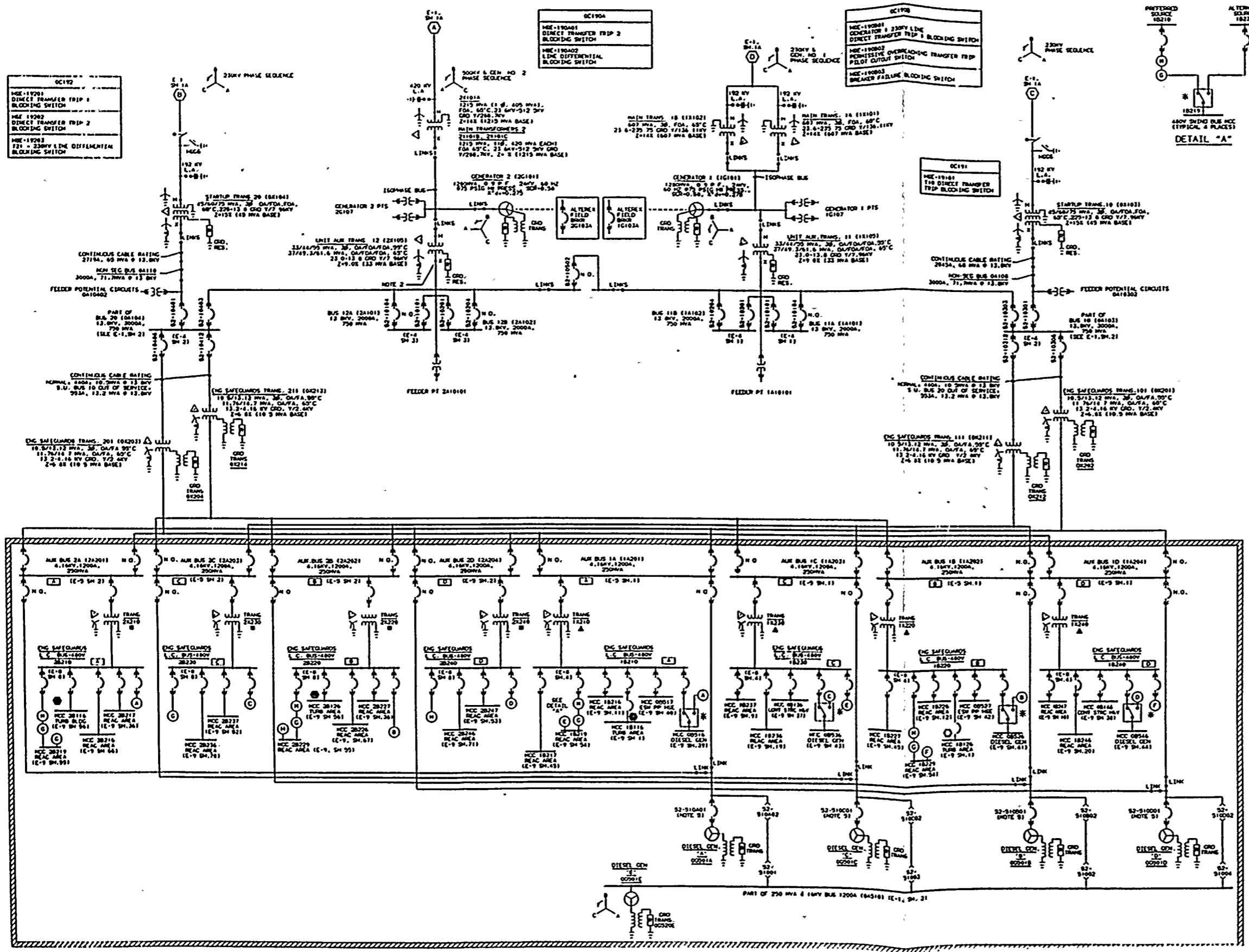
MONTOUR AND MOUNTAIN  
SWITCHYARDS  
ONE LINE DIAGRAM

FSAR FIGURE 8.2-4

PP&L DRAWING

FSAR .E.8.2-4  
NPE,EMOlt





FSAR REV. 49, 04/96

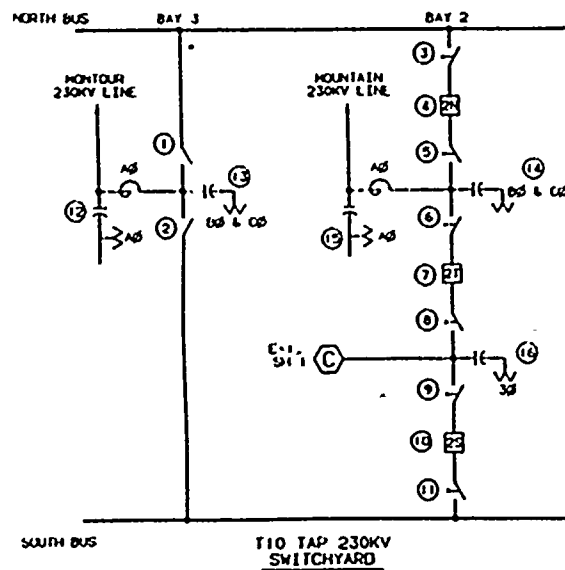
SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

STATION SINGLE LINE DIAGRAM

FSAR FIGURE 8.3-1-1

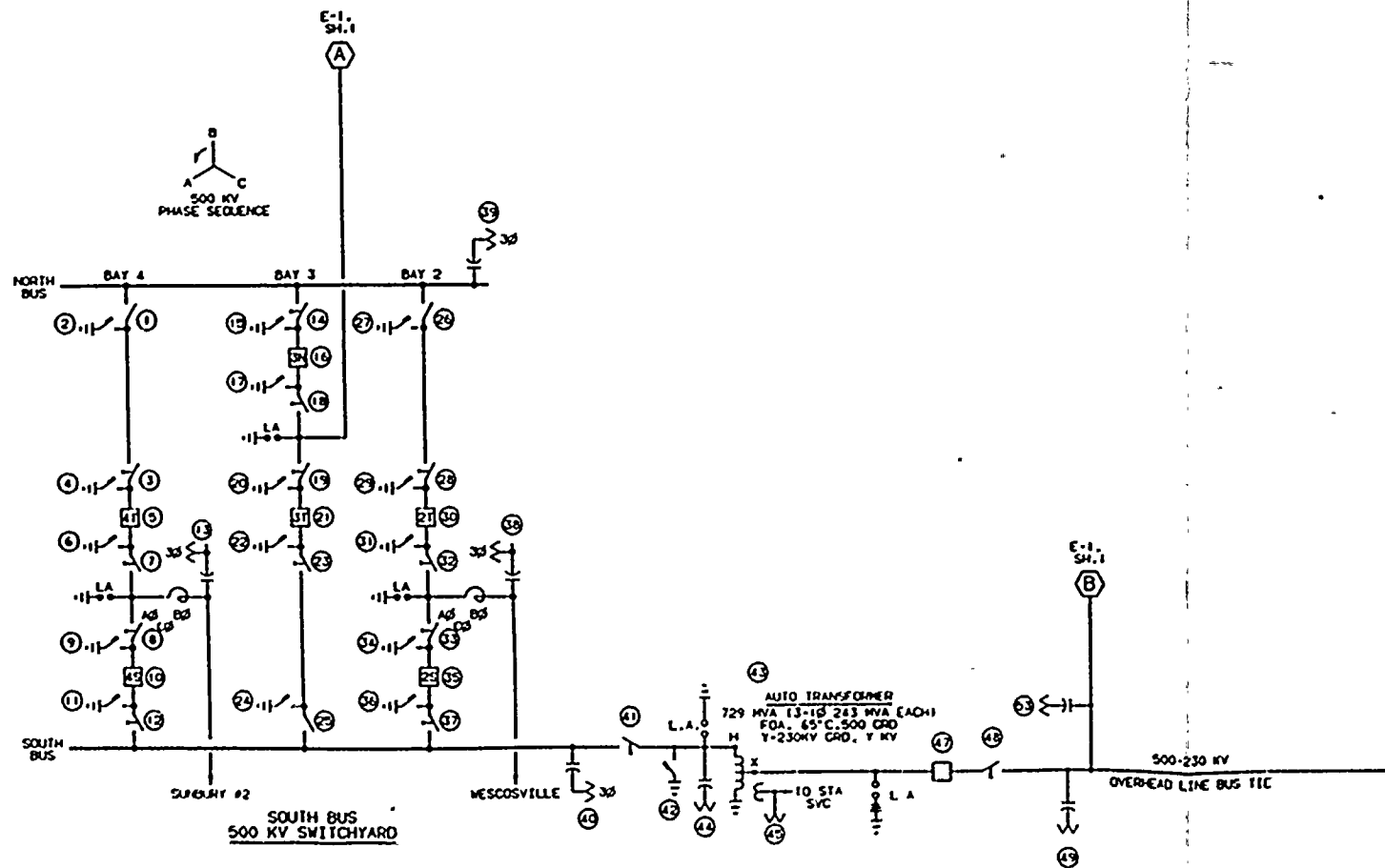
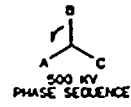
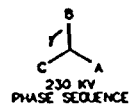
PP&L DRAWING E-107150, Sh. 1





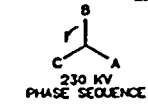
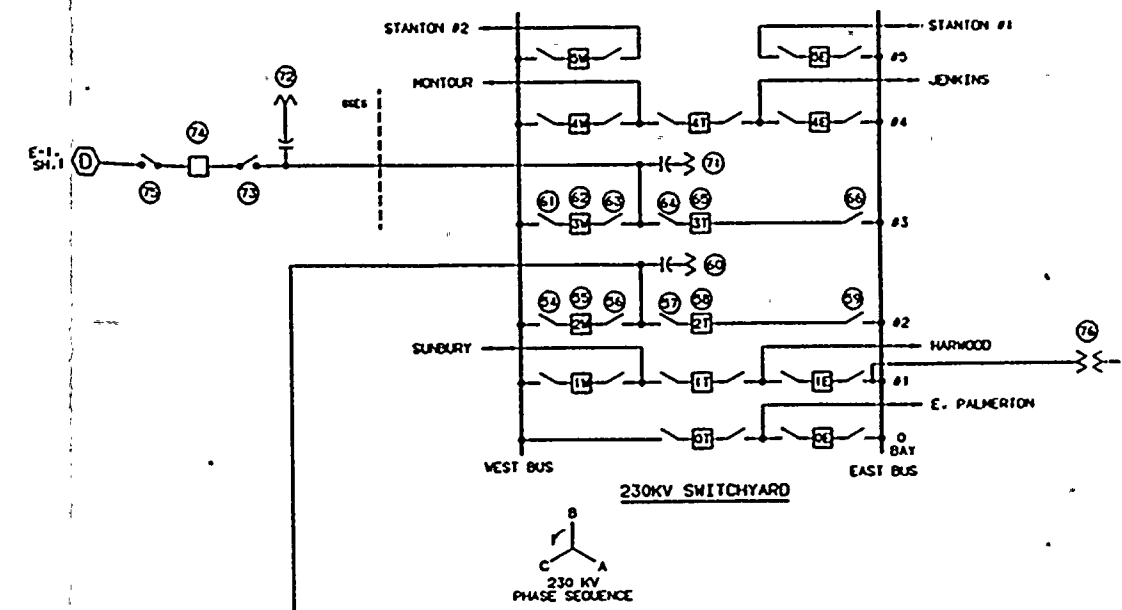
**LEGEND FOR T10 TAP 230KV SWITCHYARD**

- 1 MONTOUR NORTH BUS GGD
- 2 MONTOUR SOUTH BUS GGD
- 3 MOUNTAIN NORTH BUS MOD
- 4 MOUNTAIN CB
- 5 MOUNTAIN LINE MOD
- 6 MOUNTAIN-SUSQUEHANNA T-10 TAP TIE, MOUNTAIN MOD
- 7 MOUNTAIN-SUSQUEHANNA T-10 TAP TIE CB
- 8 MOUNTAIN-SUSQUEHANNA T-10 TAP TIE, TAP MOD
- 9 SUSQUEHANNA T-10 TAP, TAP MOD
- 10 SUSQUEHANNA T-10 TAP CB
- 11 SUSQUEHANNA T-10 TAP SOUTH BUS MOD
- 12 MONTOUR LINE POTENTIAL DEVICE (A PHASE)
- 13 MONTOUR LINE POTENTIAL DEVICE (B & C PHASE)
- 14 MOUNTAIN LINE POTENTIAL DEVICE (B & C PHASE)
- 15 MOUNTAIN LINE POTENTIAL DEVICE (A PHASE)
- 16 SUSQUEHANNA T-10 TAP POT DEVICE (A, B, C PHASE)



**LEGEND FOR 230KV SWITCHYARD AND 500KV SWITCHYARD**

- 1 BAY NO. 4 NORTH BUS GGD
- 2 BAY NO. 4 NORTH BUS GROUND GGD
- 3 SUNBURY NO. 2 NORTH BUS MOD
- 4 SUNBURY NO. 2 NORTH BUS SIDE GROUND GGD
- 5 SUNBURY NO. 2 NORTH CB
- 6 SUNBURY NO. 2 NORTH LINE SIDE GROUND GGD
- 7 SUNBURY NO. 2 NORTH LINE MOD
- 8 SUNBURY NO. 2 NORTH LINE MOD
- 9 SUNBURY NO. 2 SOUTH LINE SIDE GROUND GGD
- 10 SUNBURY NO. 2 SOUTH CB
- 11 SUNBURY NO. 2 SOUTH BUS SIDE GROUND GGD
- 12 SUNBURY NO. 2 SOUTH BUS MOD
- 13 SUNBURY NO. 2 LINE POTENTIAL
- 14 GENERATOR NO. 2 NORTH BUS MOD
- 15 GENERATOR NO. 2 NORTH BUS SIDE GROUND GGD
- 16 GENERATOR NO. 2 NORTH CB
- 17 GENERATOR NO. 2 NORTH TRANSFORMER SIDE GROUND GGD
- 18 GENERATOR NO. 2 NORTH TRANSFORMER MOD
- 19 GENERATOR NO. 2 SOUTH TRANSFORMER MOD
- 20 GENERATOR NO. 2 SOUTH TRANSFORMER SIDE GROUND GGD
- 21 GENERATOR NO. 2 SOUTH CB
- 22 GENERATOR NO. 2 SOUTH BUS SIDE GROUND GGD
- 23 GENERATOR NO. 2 SOUTH BUS MOD
- 24 BAY NO. 3 SOUTH GROUND GGD
- 25 BAY NO. 3 SOUTH BUS GGD
- 26 BAY NO. 2 NORTH BUS GGD
- 27 BAY NO. 2 NORTH BUS GROUND GGD
- 28 MESCOVILLE NORTH BUS MOD
- 29 MESCOVILLE NORTH BUS SIDE GROUND GGD
- 30 MESCOVILLE NORTH CB
- 31 MESCOVILLE NORTH LINE SIDE GROUND GGD
- 32 MESCOVILLE NORTH LINE MOD
- 33 MESCOVILLE SOUTH LINE MOD
- 34 MESCOVILLE SOUTH LINE SIDE GROUND GGD
- 35 MESCOVILLE SOUTH CB
- 36 MESCOVILLE SOUTH BUS SIDE GROUND GGD
- 37 MESCOVILLE SOUTH BUS MOD
- 38 MESCOVILLE LINE POTENTIAL
- 39 NORTH BUS POTENTIAL
- 40 SOUTH BUS POTENTIAL
- 41 TRANSFORMER BANK NO. 21 500 KV CIRCUIT SWITCHER
- 42 TRANSFORMER BANK NO. 21 500 KV GROUND GGD
- 43 TRANSFORMER BANK NO. 21
- 44 TRANSFORMER BANK NO. 21 500 KV SYNCHRONIZING POTENTIAL
- 45 TRANSFORMER BANK NO. 21 12 KV POTENTIAL
- 47 TRANSFORMER BANK NO. 21 230 KV CB
- 48 TRANSFORMER BANK NO. 21 230 KV LINE MOD
- 49 TRANSFORMER BANK NO. 21 230 KV POTENTIAL
- 53 TRANSFORMER BANK NO. 20 230 KV POTENTIAL DEVICE
- 54 TRANSFORMER BANK NO. 21 WEST BUS GGD
- 55 TRANSFORMER BANK NO. 21 WEST CB
- 56 TRANSFORMER BANK NO. 21 WEST LINE GGD
- 57 TRANSFORMER BANK NO. 21 EAST LINE GGD
- 58 TRANSFORMER BANK NO. 21 EAST CB
- 59 TRANSFORMER BANK NO. 21 EAST BUS GGD
- 60 TRANSFORMER BANK NO. 21 LINE POTENTIAL DEVICE
- 61 GENERATOR NO. 1 WEST BUS GGD
- 62 GENERATOR NO. 1 WEST CB
- 63 GENERATOR NO. 1 WEST LINE GGD
- 64 GENERATOR NO. 1 EAST LINE GGD
- 65 GENERATOR NO. 1 EAST CB
- 66 GENERATOR NO. 1 EAST BUS GGD
- 71 GENERATOR NO. 1 LINE POTENTIAL
- 72 GENERATOR NO. 1 STN. POTENTIAL
- 73 GENERATOR NO. 1 STN. LINE GGD
- 74 GENERATOR NO. 1 STN. CB
- 75 GENERATOR NO. 1 STN. TRANS GGD



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**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

**STATION SINGLE LINE DIAGRAM**

FSAR FIGURE 8.3-1-2

PP&L DRAWING E-107150, Sh. 2

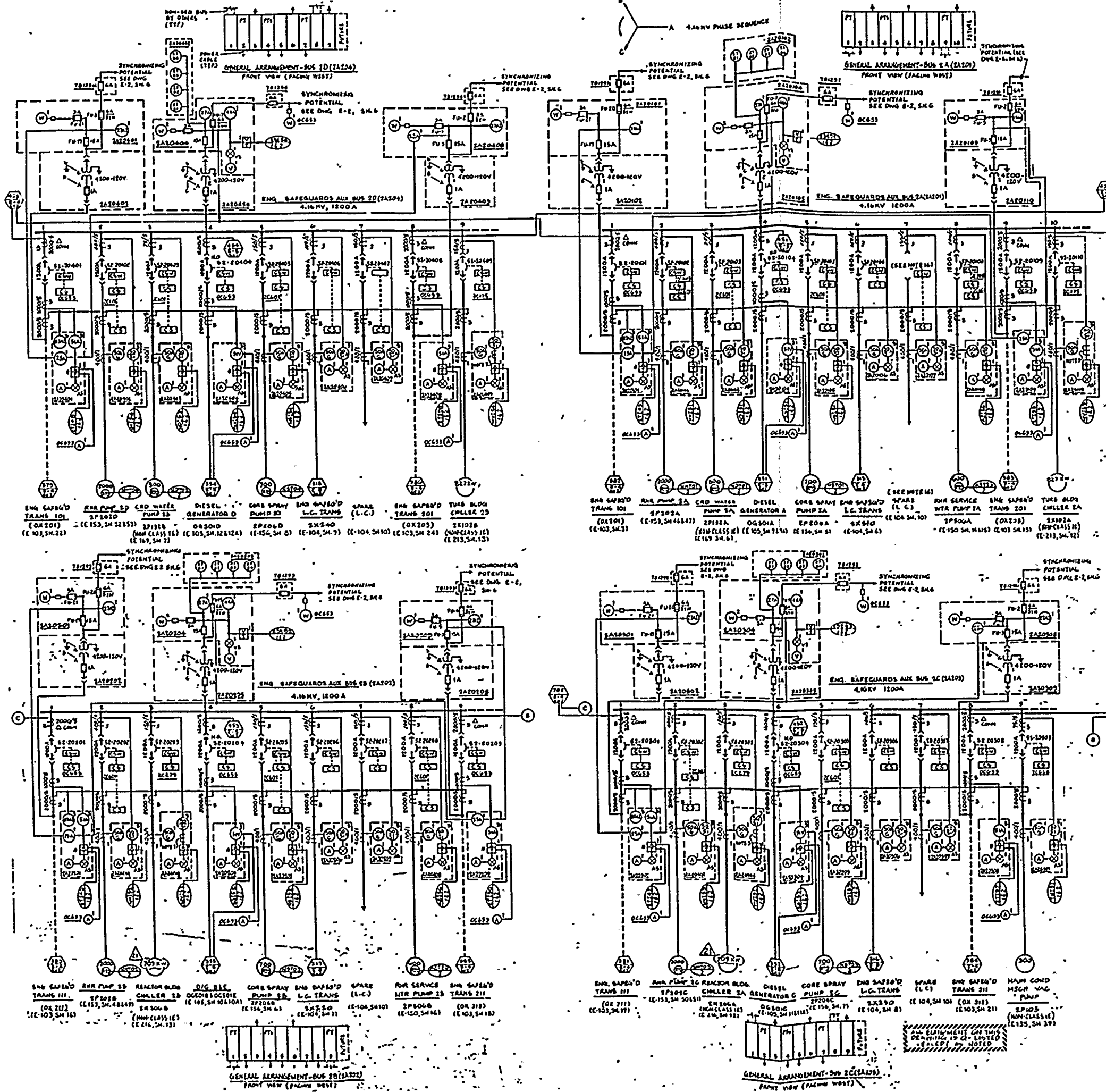
76 STATION SERVICE TRANSF. (13-10)











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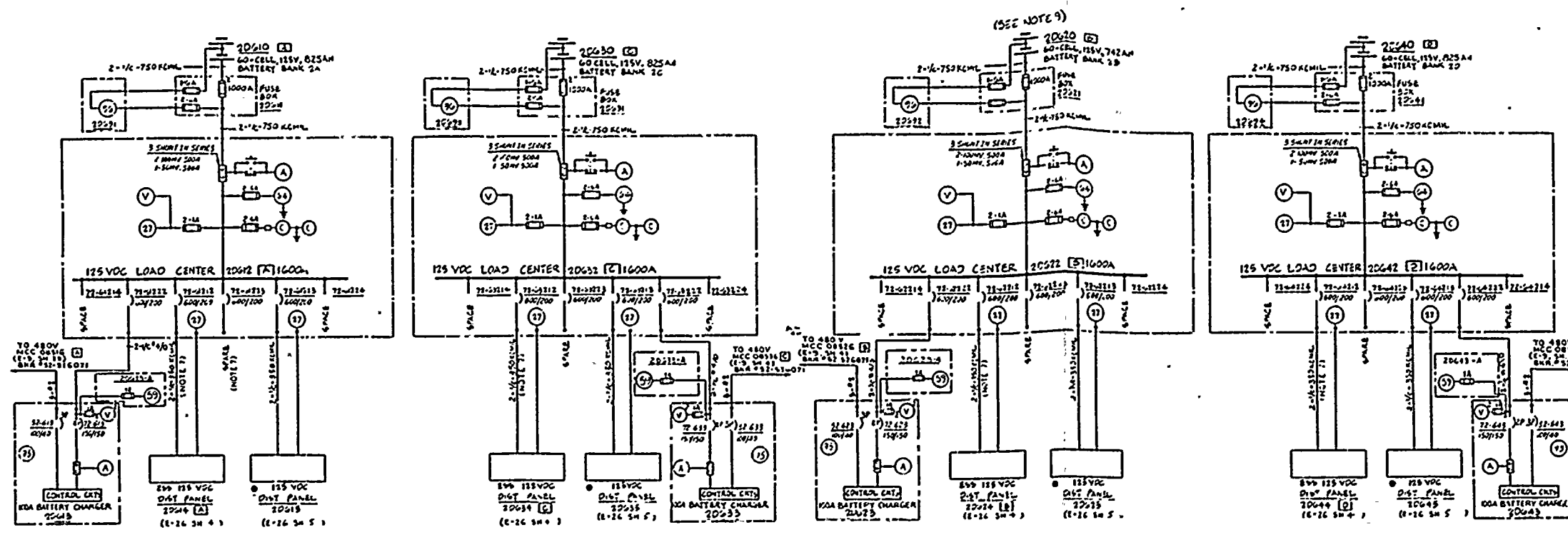
SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

UNIT 2  
 4.16KV POWER SYSTEM

FSAR FIGURE 8.3-4

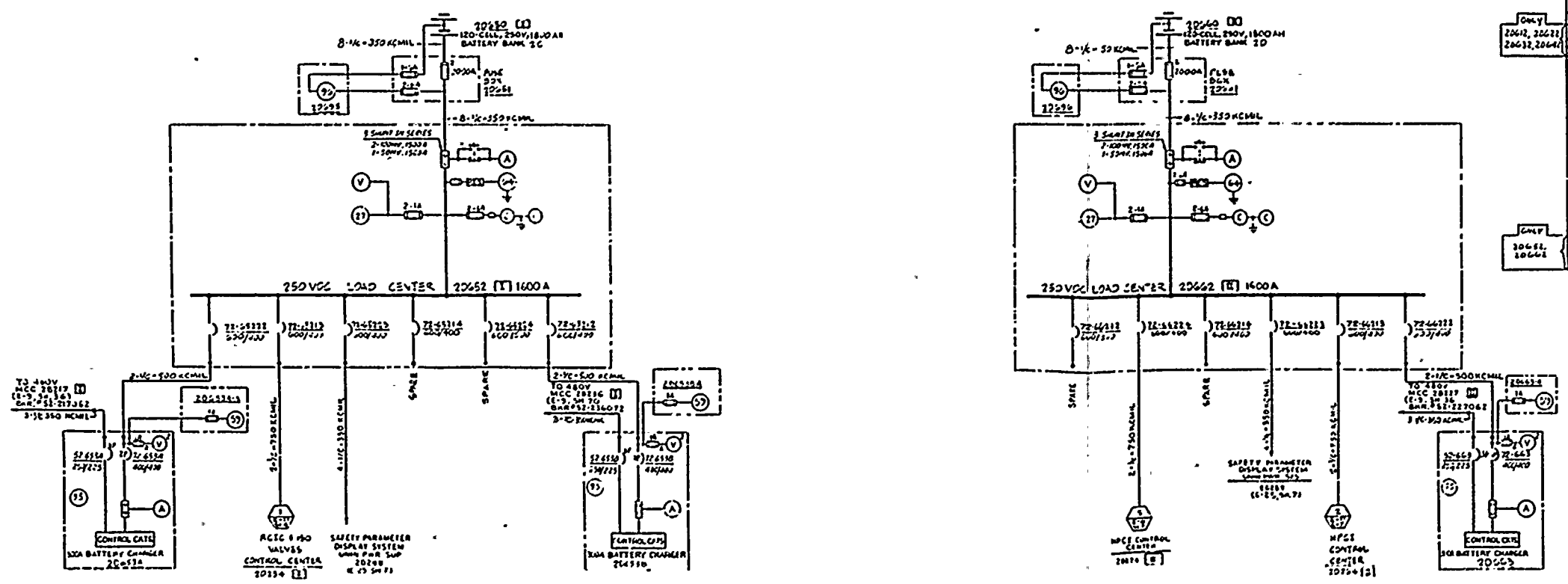
PP&L DRAWING E-107154, Sh. 2





- NOTES:**
1. ALL DC BREAKERS ARE 2-POLE
  2. BATTERY CHARGER FAILURE ALARM (PAGE 10795) EQUIPPED OPT
  3. ALL FUSES ARE 2-POLE, 6A UNLESS OTHERWISE NOTED
  4. FOR STANDARD NOTES & SYMBOLS SEE DNG
  5. ALL EQUIPMENT IS O-MOUNTED EXCEPT AS NOTED BY Ⓞ
  6. THIS BREAKER IS EQUIPPED WITH SPECIAL GE TYPE EC-1 OVER-CURRENT TRIP DEVICE
  7. THE RESET BUTTON ON THE 125V AND 250V DC LOAD CENTER CIRCUIT BREAKERS GE TYPE EC-1 IS PLACED ON THE OUTSIDE OF THE BREAKER

- LEGENDS:**
- Ⓞ ALL OTHER NO'S SHALL BE SUPPLIED BY THE ASSOCIATED EQUIPMENT NUMBERS.
  - Ⓜ REFERENCE NOTATION
  - Ⓜ INDICATES ENGINEERED SAFEGUARD CHANNEL.
  - ESS ENGINEERED SAFEGUARD SYSTEM



DEV NO	DESCRIPTION	FUNCTION
27-A	DC UNDERVOLTAGE RELAY	ALARM (ONG 8-328)
57-A	DC OVERVOLTAGE RELAY	ALARM (ONG 8-328)
64-A	GE FLAMMOVER OR GROUND DETECTOR RELAY	ALARM (ONG 8-328)
98-A	BATTERY CHARGER FAILURE (PAGE NOTE 2)	ALARM (ONG 8-328)
A	AMMETER	
V	VOLTMETER	
11-4111A	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111B	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111C	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111D	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111E	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111F	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111G	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111H	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111I	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111J	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111K	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111L	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111M	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111N	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111O	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111P	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111Q	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111R	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111S	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111T	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111U	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111V	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111W	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111X	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111Y	250V DC BATTERY MONITOR	ALARM (ONG 8-328)
11-4111Z	250V DC BATTERY MONITOR	ALARM (ONG 8-328)

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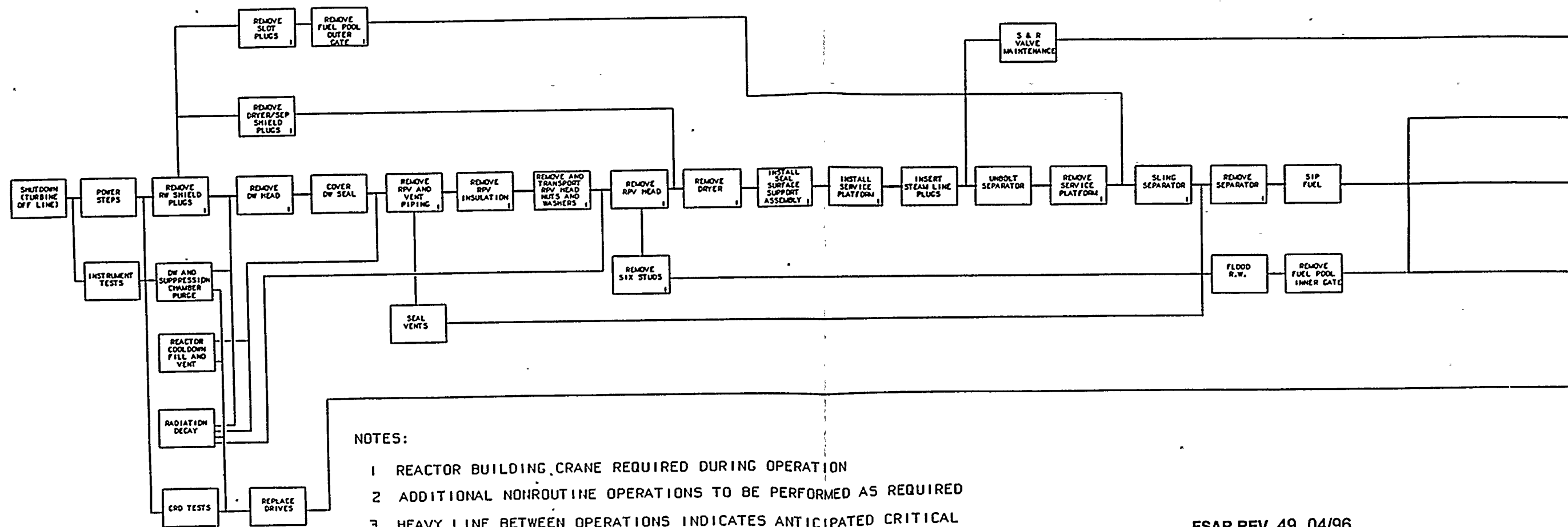
**SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT**

**125V & 250V DC SYSTEMS**

FSAR FIGURE 8.3-5

PP&L DRAWING E-107160, Sh. 1





NOTES:

- 1 REACTOR BUILDING CRANE REQUIRED DURING OPERATION
- 2 ADDITIONAL NONROUTINE OPERATIONS TO BE PERFORMED AS REQUIRED
- 3 HEAVY LINE BETWEEN OPERATIONS INDICATES ANTICIPATED CRITICAL PATH DURING A NORMAL OUTAGE
- 4 SEE FIGURE 9.1-17b-1 FOR REFUEL FLOOR WETLIFT SYSTEM

FSAR REV. 49, 04/96

**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

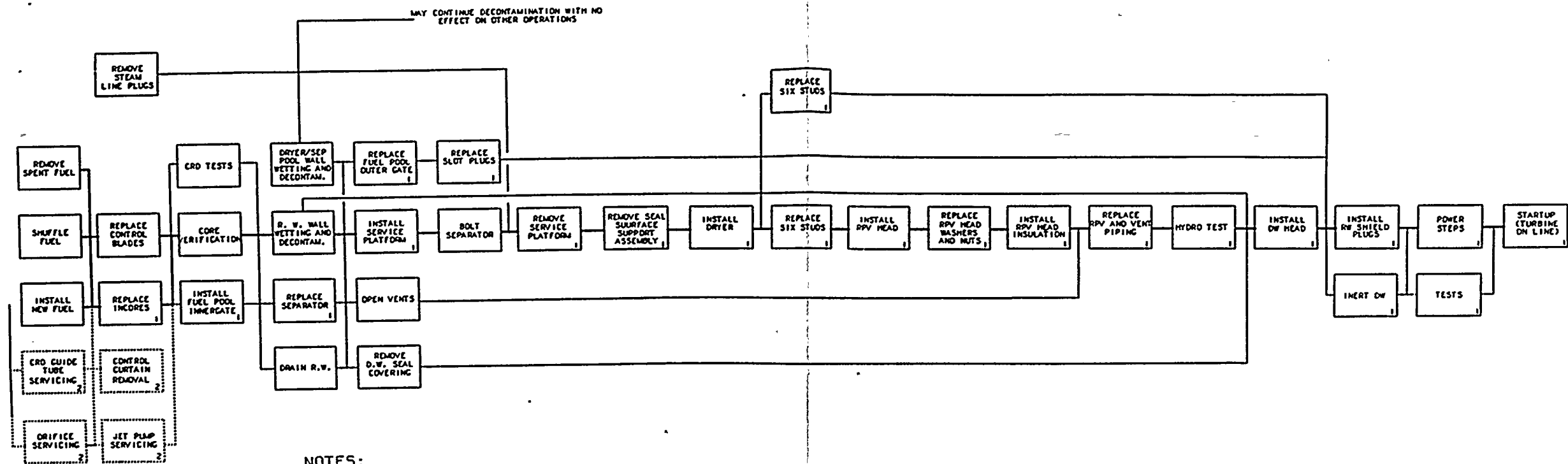
**TYPICAL FLOW DIAGRAM FOR  
 REFUELING OUTAGE**

**FSAR FIGURE 9.1-17a-1**

PP&L DRAWING PC FUELFLO & FULFLO2







NOTES:

- 1 REACTOR BUILDING CRANE REQUIRED DURING OPERATION
- 2 ADDITIONAL NONROUTINE OPERATIONS TO BE PERFORMED AS REQUIRED
- 3 HEAVY LINE BETWEEN OPERATIONS INDICATES ANTICIPATED CRITICAL PATH DURING A NORMAL OUTAGE
- 4 SEE FIGURE 9.1-17b-2 FOR REFUEL FLOOR WETLIFT SYSTEM

FSAR REV. 49, 04/96

**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

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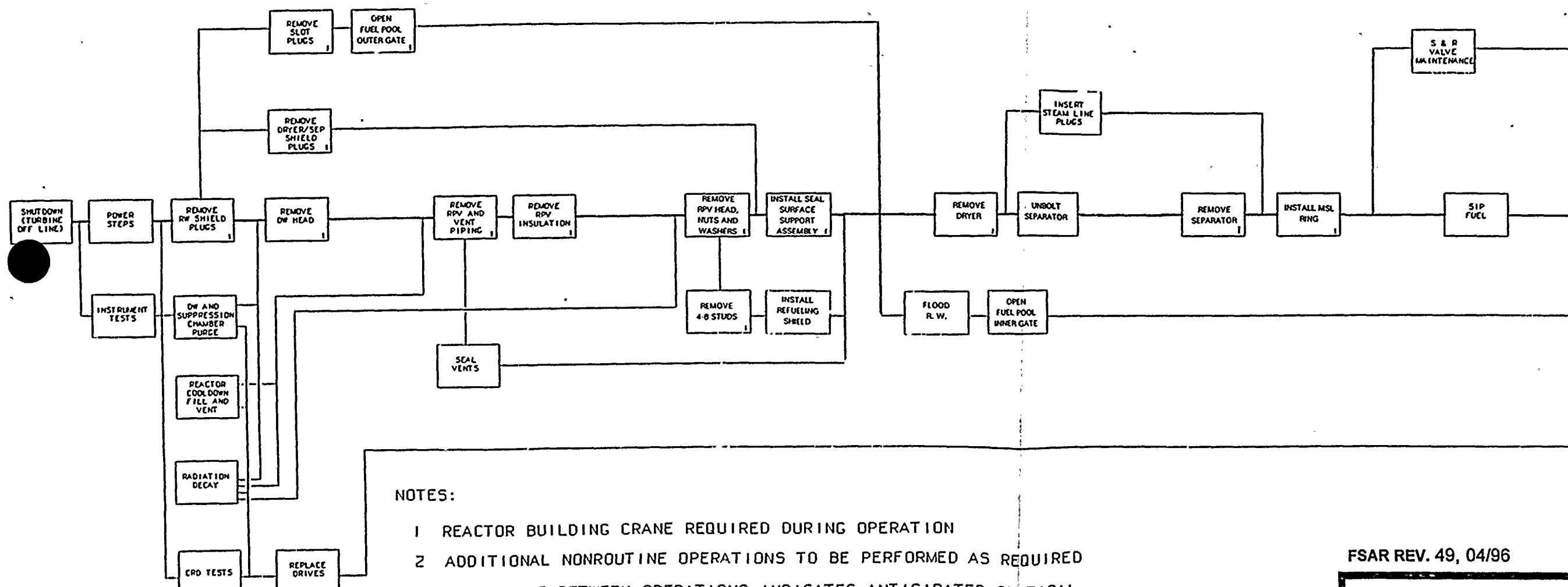
**TYPICAL FLOW DIAGRAM FOR  
 REFUELING OUTAGE**

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**FSAR FIGURE 9.1-17a-2**

PP&L DRAWING PC FULFLO3 & FULFLO4





NOTES:

- 1 REACTOR BUILDING CRANE REQUIRED DURING OPERATION
- 2 ADDITIONAL NONROUTINE OPERATIONS TO BE PERFORMED AS REQUIRED
- 3 HEAVY LINE BETWEEN OPERATIONS INDICATES ANTICIPATED CRITICAL PATH DURING A NORMAL OUTAGE

FSAR REV. 49, 04/96

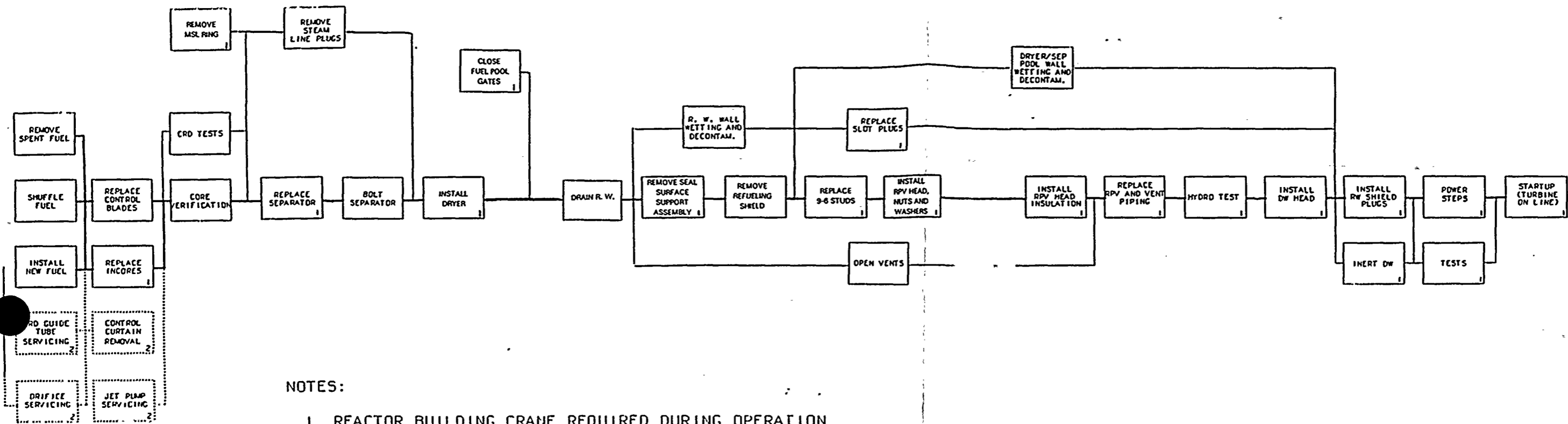
**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

**TYPICAL FLOW DIAGRAM FOR  
 REFUELING OUTAGE  
 USING REFUEL FLOOR WETLIFT SYSTEM**

**FSAR FIGURE 9.1-17b-1**

PP&L DRAWING





NOTES:

- 1 REACTOR BUILDING CRANE REQUIRED DURING OPERATION
- 2 ADDITIONAL NONROUTINE OPERATIONS TO BE PERFORMED AS REQUIRED
- 3 HEAVY LINE BETWEEN OPERATIONS INDICATES ANTICIPATED CRITICAL PATH DURING A NORMAL OUTAGE

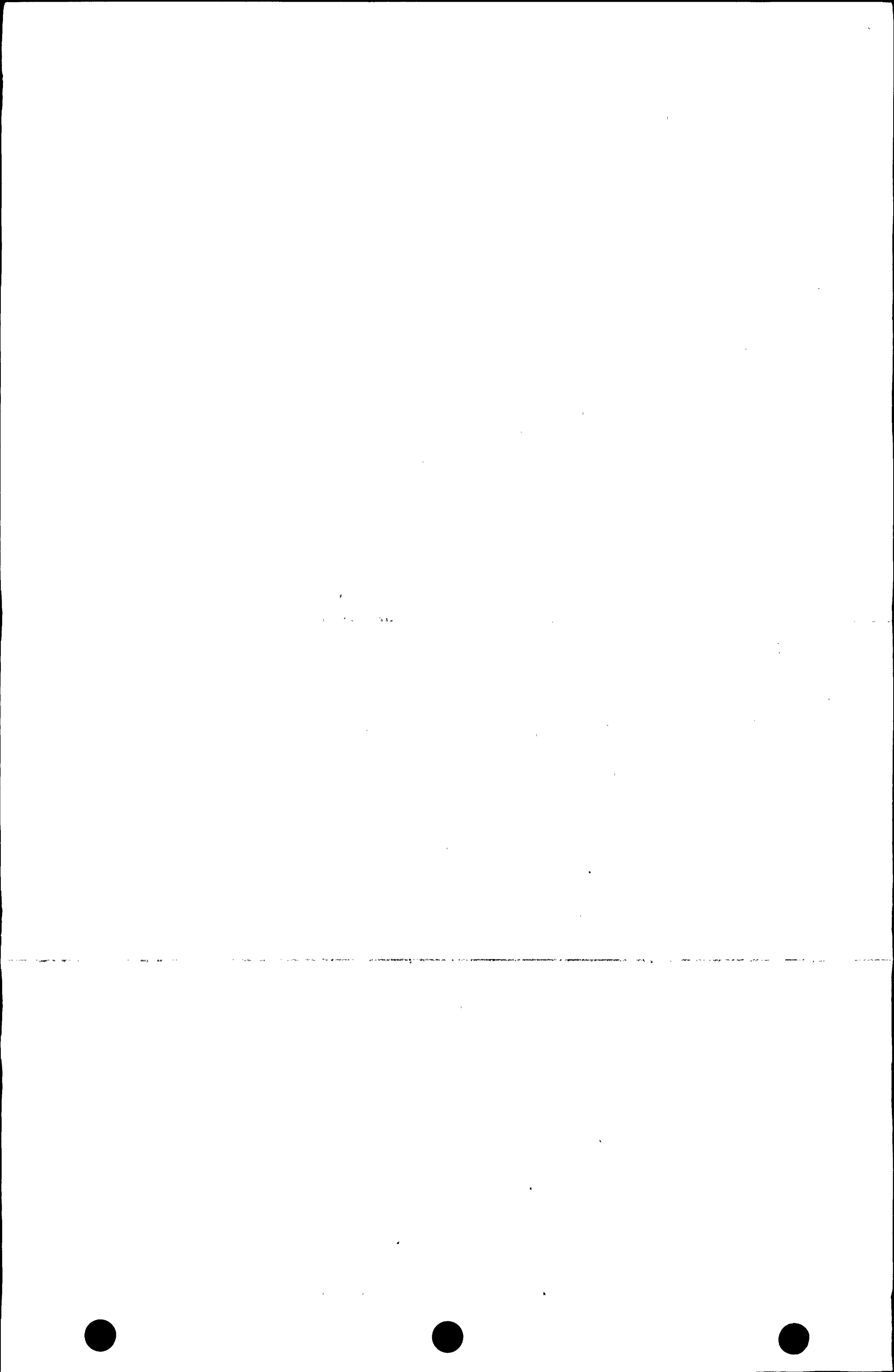
FSAR REV. 49, 04/96

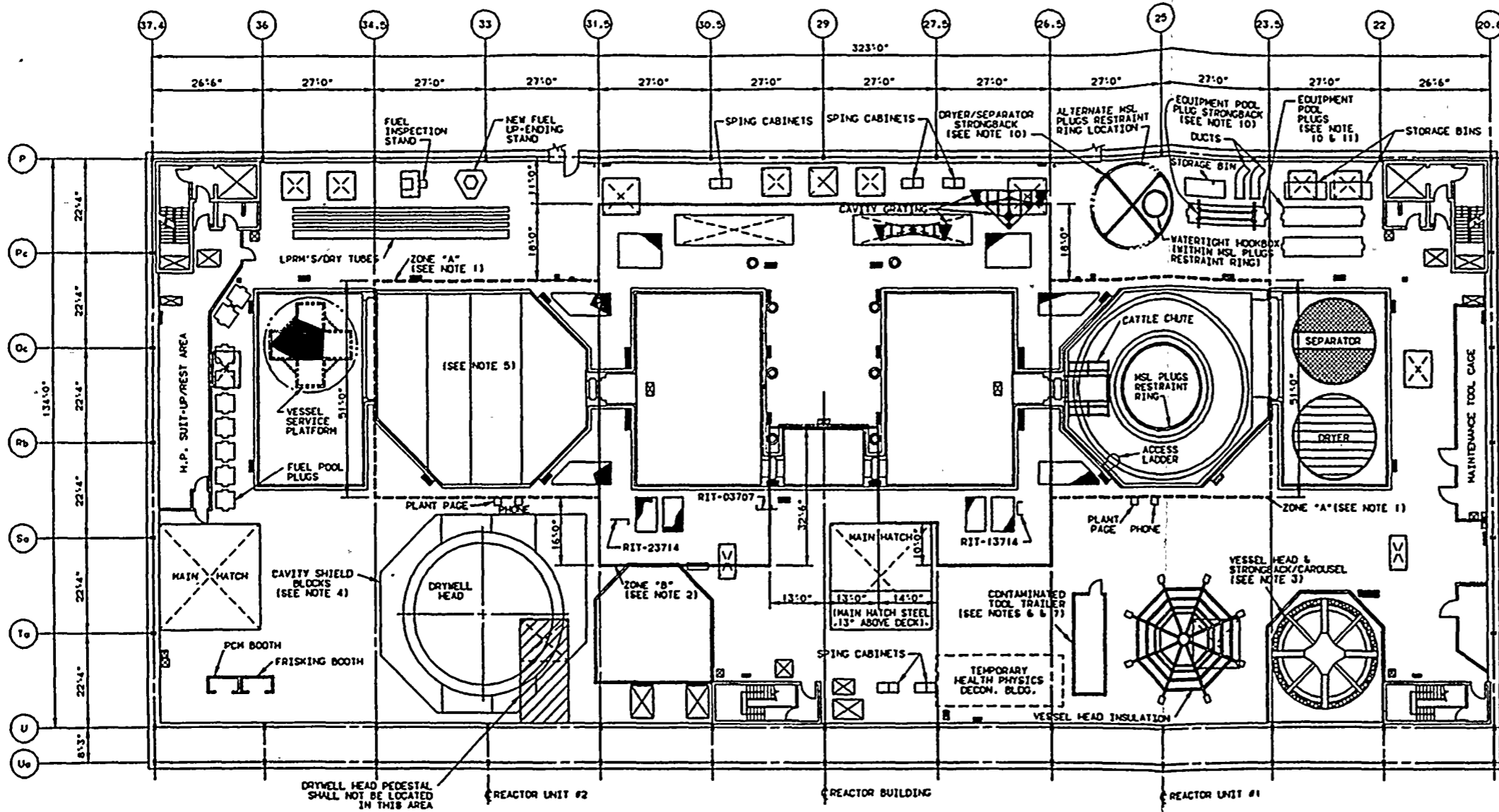
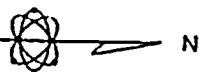
SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

TYPICAL FLOW DIAGRAM FOR  
 REFUELING OUTAGE  
 USING REFUEL FLOOR WETLIFT SYSTEM

FSAR FIGURE 9.1-17b-2

PP&L DRAWING





FLOOR PLAN - ELEV. 818'-1"  
 RECOMMENDED REFUELING FLOOR LAYDOWN PLAN  
 AFTER UNIT #1 REACTOR VESSEL DISASSEMBLY

NOTES:

1. ZONE "A" - 125 TON HOIST CAN BE USED IN THIS AREA WHEN LOCKED BY-PASS SWITCH IS USED.
2. ZONE "B" - CRANES CAN ENTER THIS AREA WITH LOAD ON AUXILIARY HOIST ONLY, MAXIMUM 5 TON CAPACITY. LOADS GREATER THAN 1000 LBS. SHALL NOT BE CARRIED IN THIS AREA UNLESS SPECIFICALLY CONTROLLED BY P.O.R.C. APPROVED PROCEDURE, OR WORK INSTRUCTIONS. 125 TON HOIST CANNOT BE USED IN THIS AREA.
3. THE RPV HEAD STRONGBACK/CAROUSEL IS STORED ON TOP OF THE RPV HEAD.
4. A MINIMUM OF EIGHT, 2'x2' (MIN.) SHIM PADS EVENLY SPACED UNDER EACH TOP AND BOTTOM SHIELD BLOCK SHALL BE USED TO PROVIDE ADEQUATE LOAD DISTRIBUTION AND TO COMPENSATE FOR SLOPING FLOORS. ALL SHIM PADS MUST BE LEVEL TO WITHIN 1/2 INCH. A SHIM PAD MUST BE LOCATED AT EACH CORNER OF ALL CAVITY SHIELD BLOCKS. FLOOR SHIM PADS SHALL BE LOCATED EITHER ENTIRELY ON THE FLOOR OR ENTIRELY ON THE HATCH COVER. THE LOWER SET OF SHIELD BLOCKS SHALL BE PLACED ON TOP OF THE UPPER SET OF SHIELD BLOCKS. THE DRYWELL HEAD SHALL BE CENTERED ON THE TOP OF THE LOWER SET OF SHIELD BLOCKS. EACH DRYWELL HEAD PEDESTAL SHALL SIT ENTIRELY ON ONE SHIELD BLOCK. THE LIVE LOAD WITHIN 7'-0" OF THE SHIELD BLOCKS SHALL NOT EXCEED 100 psf. (REFER TO EWR MIS-85-105, EWR M00208, CALC. NO. FL-C-JDY-066 & CALC. NO. FJ-C-PAM-001)
5. A DISTRIBUTED LIVE LOAD OF 100 PSF MAY BE PLACED ON TOP OF THE CAVITY SHIELD BLOCKS AT ANY TIME, HOWEVER, NO LIVE LOAD ON THE CAVITY SHIELD BLOCKS IS PERMITTED WHEN THEY ARE BEING LIFTED AND TRANSPORTED TO THEIR LAYDOWN LOCATIONS (REF. CALC. NO. FL-C-JDY-066).
6. LAYDOWN REFLECTS POSITIONING AFTER VESSEL DISASSEMBLY IS COMPLETE. THE TOOL TRAILER MUST BE REPOSITIONED TO ALLOW FOR CAVITY SHIELD BLOCK AND DRYWELL HEAD REMOVAL AND INSTALLATION.
7. FOR TOOL TRAILER RIGGING REQUIREMENTS SEE DWG. D213481.
8. FOR REFERENCES SEE DWG. C-1932, SHTS. 6 THRU 9.
9. THIS DRAWING IS NOT INTENDED TO SHOW THE SAFE LOAD PATHS OR RIGGING REQUIREMENTS.
10. FIELD HAS OPTION TO USE AN ARRANGEMENT SIMILAR (OPPOSITE HAND) TO THE UNIT TWO LAYDOWN PLAN (REF. DWG. C-1807 SHT. 2) FOR STORAGE OF EQUIPMENT POOL PLUGS, EQUIPMENT POOL PLUG STRONGBACK, DRYER/SEPARATOR STRONGBACK.
11. WITH EQUIPMENT POOL PLUGS STORED AS SHOWN ON THIS DRAWING, ANY ADDITIONAL LIVE LOAD IN THE AREA WEST OF THE DRYER/SEPARATOR POOL AND BETWEEN COLUMN LINES 23.5 & 22 SHALL NOT EXCEED 100 PSF. IF OPTION PER NOTE 10 ABOVE IS USED (LAYDOWN ARRANGEMENT SIMILAR TO UNIT 2) THE 100 PSF ADDITIONAL LIVE LOAD RESTRICTION SHALL APPLY TO THE AREA WEST OF THE REACTOR CAVITY BETWEEN COLUMN LINES 25 AND 23.5.

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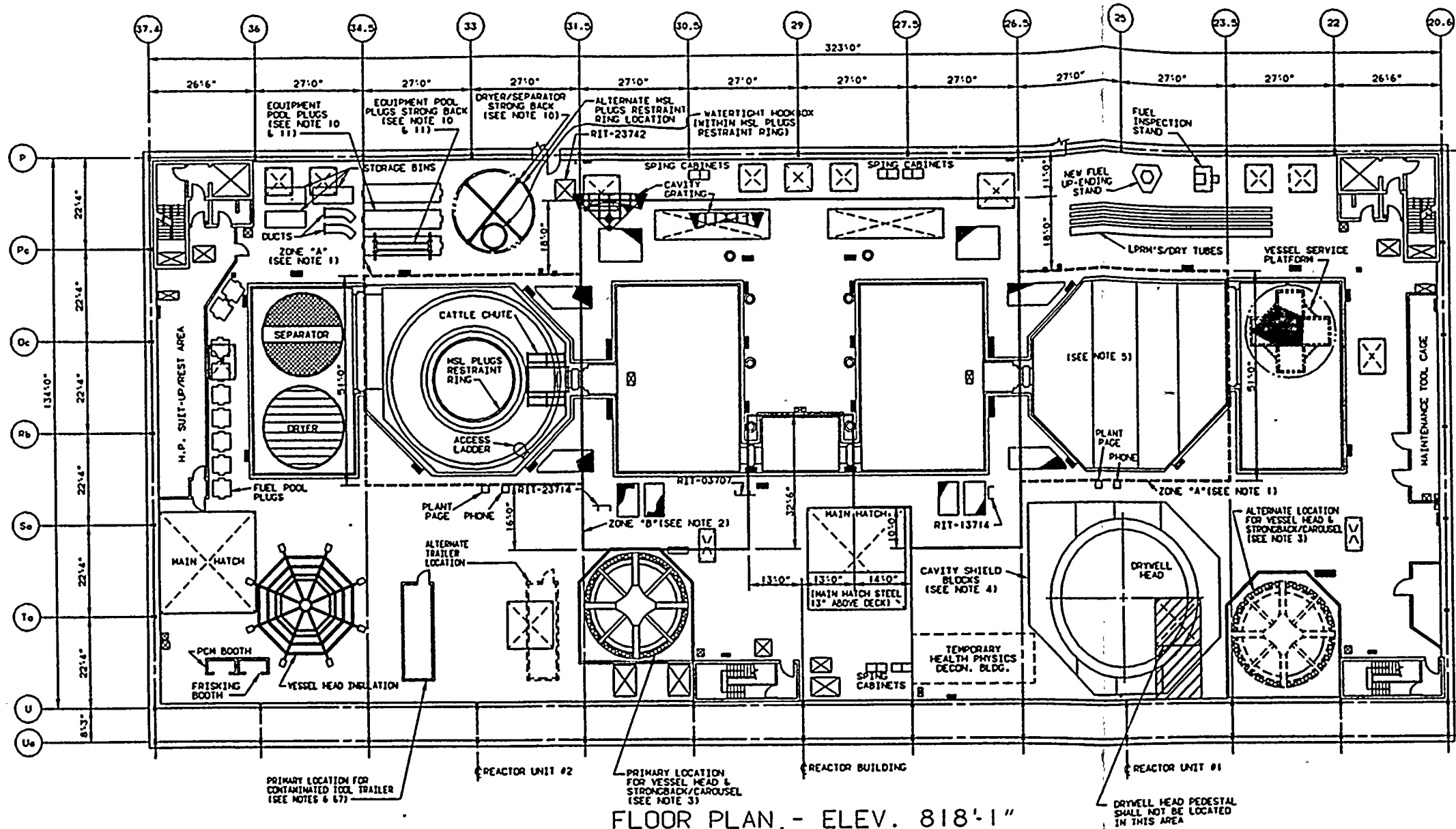
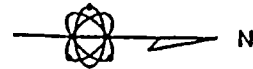
**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

**REACTOR BUILDING - UNIT 2  
 PLAN OF REFUELING FLOOR  
 LAYDOWN AREA EL. 818'-1"**

**FSAR FIGURE 9.1-18  
 PP&L DRAWING D-206086, Sh. 1**







FLOOR PLAN - ELEV. 818'-1"  
 RECOMMENDED REFUELING FLOOR LAYDOWN PLAN  
 AFTER UNIT #2 REACTOR VESSEL DISASSEMBLY

- NOTES:**
1. ZONE "A" - 125 TON HOIST CAN BE USED IN THIS AREA WHEN LOCKED BY-PASS SWITCH IS USED.
  2. ZONE "B" - CRANES CAN ENTER THIS AREA WITH LOAD ON AUXILIARY HOIST ONLY. MAXIMUM 5 TON CAPACITY. LOADS GREATER THAN 1000 LBS. SHALL NOT BE CARRIED IN THIS AREA UNLESS SPECIFICALLY CONTROLLED BY P.O.R.C. APPROVED PROCEDURE, OR WORK INSTRUCTIONS. 125 TON HOIST CANNOT BE USED IN THIS AREA.
  3. THE RPV HEAD STRONGBACK/CAROUSEL IS STORED ON TOP OF THE RPV HEAD.
  4. A MINIMUM OF EIGHT, 2'-2" (MIN.) SHIM PADS EVENLY SPACED UNDER EACH TOP AND BOTTOM SHIELD BLOCK SHALL BE USED TO PROVIDE ADEQUATE LOAD DISTRIBUTION AND TO COMPENSATE FOR SLOPING FLOORS. ALL SHIM PADS MUST BE LEVEL TO WITHIN 1/2 INCH. A SHIM PAD MUST BE LOCATED AT EACH CORNER OF ALL CAVITY SHIELD BLOCKS. FLOOR SHIM PADS SHALL BE LOCATED EITHER ENTIRELY ON THE FLOOR OR ENTIRELY ON THE HATCH COVER. THE LOWER SET OF SHIELD BLOCKS SHALL BE PLACED ON TOP OF THE UPPER SET OF SHIELD BLOCKS. THE DRYWELL HEAD SHALL BE CENTERED ON THE TOP OF THE LOWER SET OF SHIELD BLOCKS. EACH DRYWELL HEAD PEDESTAL SHALL SIT ENTIRELY ON ONE SHIELD BLOCK. THE LIVE LOAD WITHIN 7'-0" OF THE SHIELD BLOCKS SHALL NOT EXCEED 100 psf. (REFER TO EWR MIS-85-105, EWR M00208, CALC. NO. FL-C-JDV-066 & CALC. NO. FJ-C-PAM-001)
  5. A DISTRIBUTED LIVE LOAD OF 100 PSF MAY BE PLACED ON TOP OF THE CAVITY SHIELD BLOCKS AT ANY TIME. HOWEVER, NO LIVE LOAD ON THE CAVITY SHIELD BLOCKS IS PERMITTED WHEN THEY ARE BEING LIFTED AND TRANSPORTED TO THEIR LAYDOWN LOCATIONS (REF. CALC. NO. FL-C-JDV-066).
  6. LAYDOWN REFLECTS POSITIONING AFTER VESSEL DISASSEMBLY IS COMPLETE. THE TOOL TRAILER MUST BE REPOSITIONED TO ALLOW FOR CAVITY SHIELD BLOCK AND DRYWELL HEAD REMOVAL AND INSTALLATION.
  7. FOR TOOL TRAILER RIGGING REQUIREMENTS SEE DWG. D213481.
  8. FOR REFERENCES SEE DWG. C-1932, SHTS. 6 THRU 9.
  9. THIS DRAWING IS NOT INTENDED TO SHOW THE SAFE LOAD PATHS OR RIGGING REQUIREMENTS.
  10. FIELD HAS AN OPTION TO USE AN ARRANGEMENT SIMILAR (OPPOSITE HAND) TO THE UNIT ONE LAYDOWN (REF. DWG. C-1807 SHIT. 1) FOR STORAGE OF EQUIPMENT POOL PLUGS, EQUIPMENT POOL PLUG STRONGBACK AND DRYER/SEPARATOR STRONGBACK.
  11. DURING THE STORAGE OF EQUIPMENT POOL PLUGS, ANY ADDITIONAL FLOOR LIVE LOAD IN THE EQUIPMENT POOL PLUG STORAGE AREA (AREA ON THE WEST SIDE OF THE REACTOR CAVITY BETWEEN COLUMN LINES 33 & 34.5) SHALL NOT EXCEED 100 PSF.

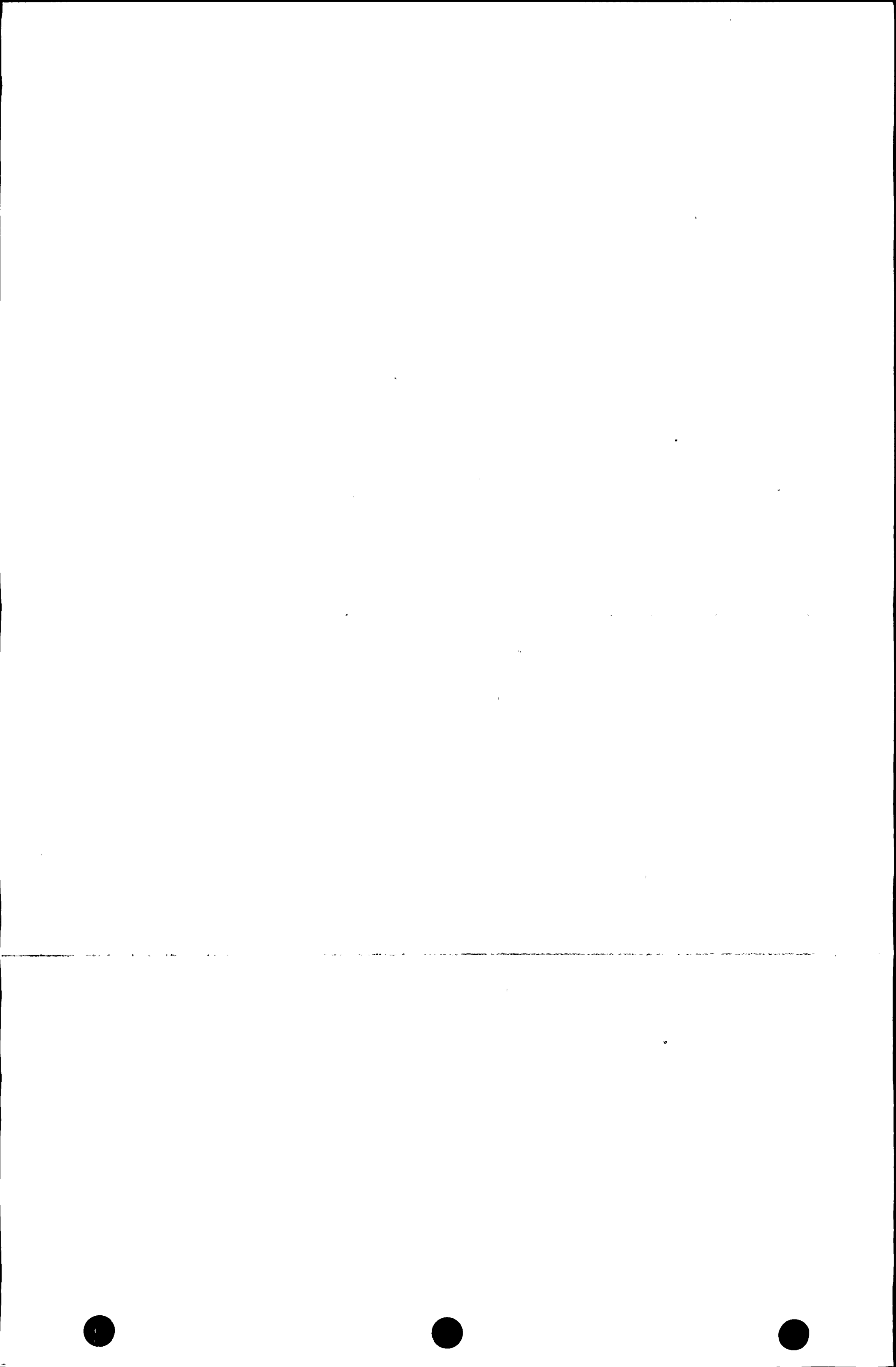
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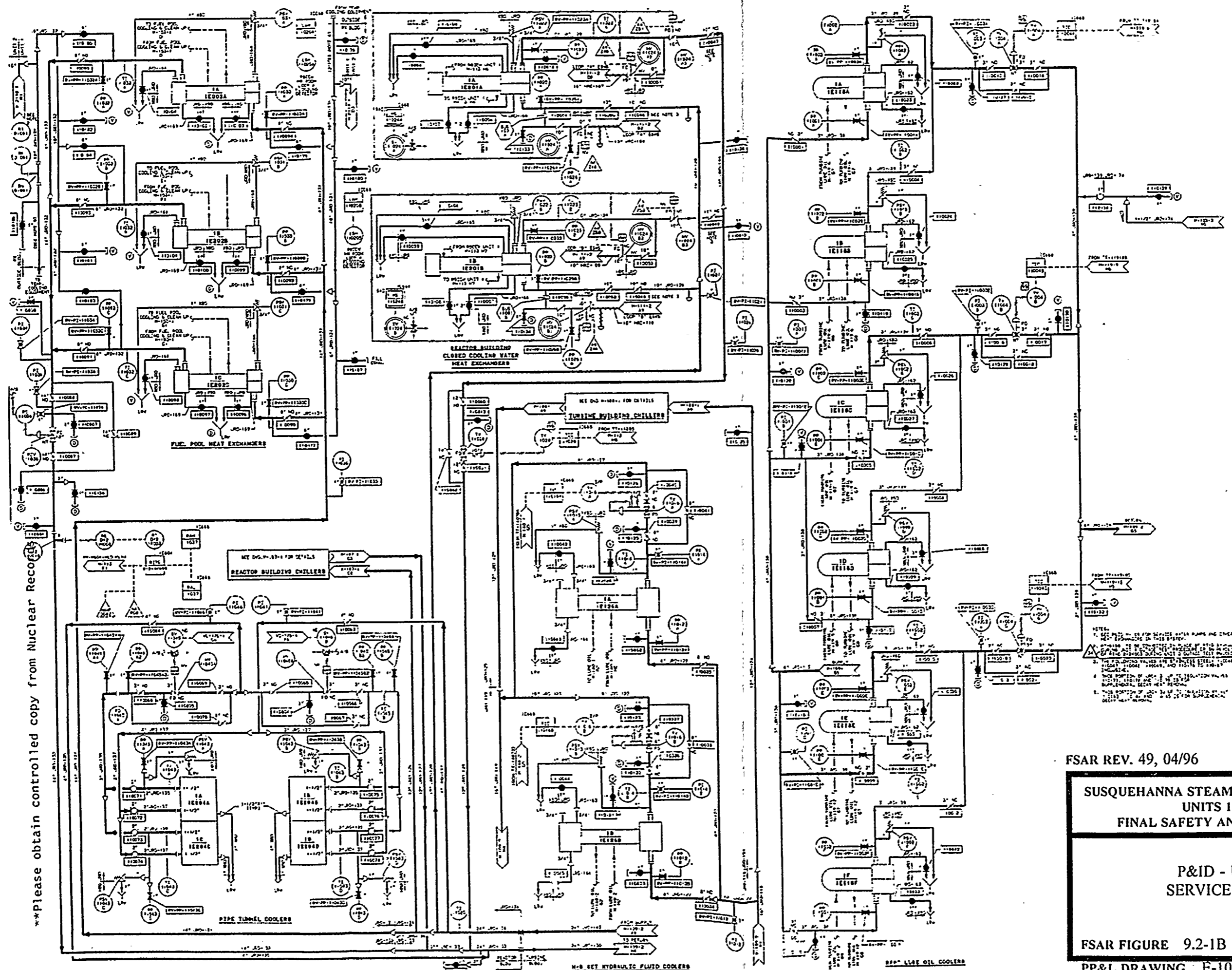
**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

**REACTOR BUILDING UNIT 1  
 PLAN OF REFUELING FLOOR  
 LAYDOWN AREA EL. 818'-1"**

**FSAR FIGURE 9.1-19**

PP&L DRAWING D-206086, Sh. 2





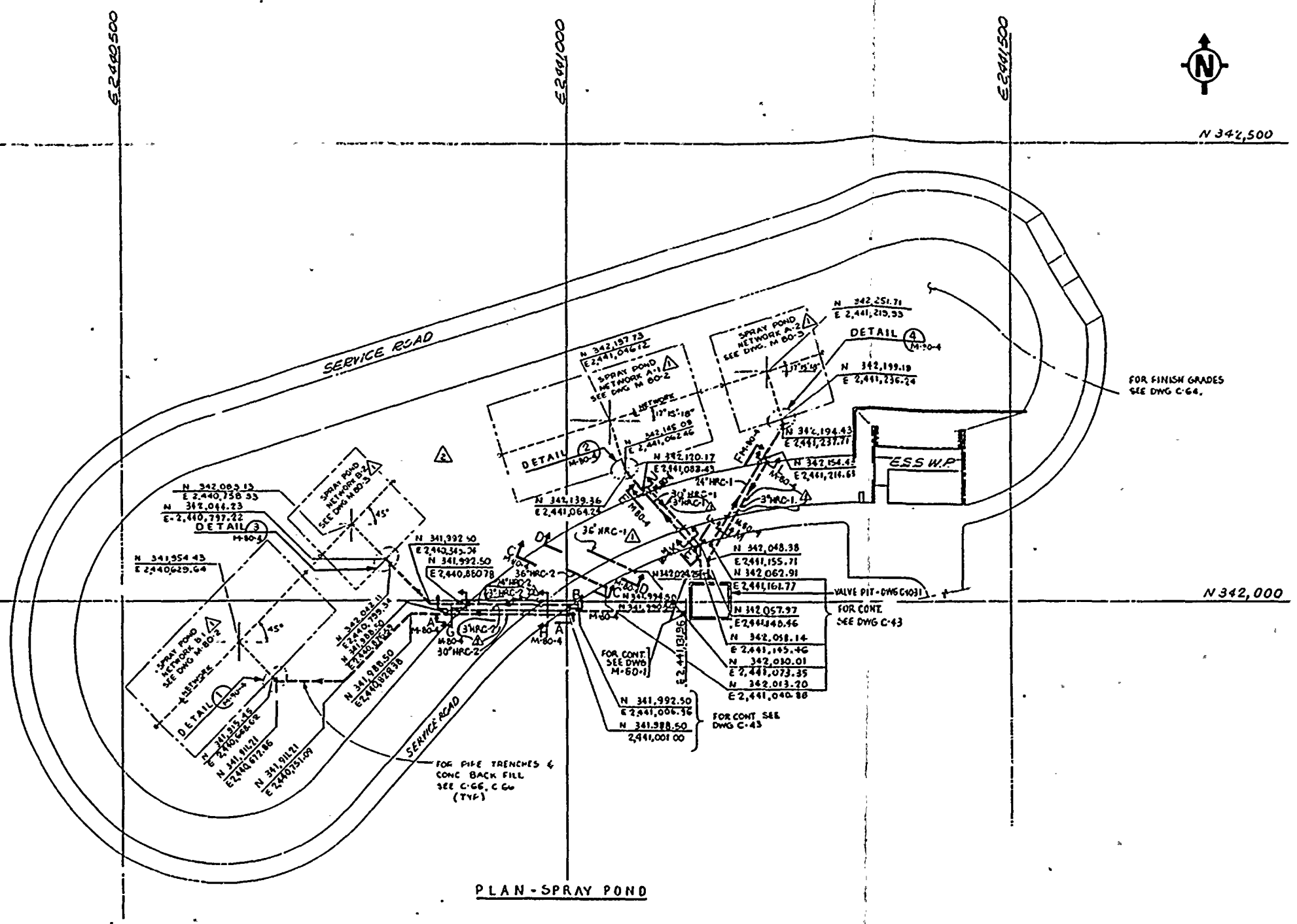
\*please obtain controlled copy from Nuclear Records

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<b>SUSQUEHANNA STEAM ELECTRIC STATION</b> <b>UNITS 1 AND 2</b> <b>FINAL SAFETY ANALYSIS REPORT</b>
<b>P&amp;ID - UNIT 1</b> <b>SERVICE WATER</b>
<b>FSAR FIGURE 9.2-1B</b> <b>PP&amp;L DRAWING E-106215, Sh. 1</b>

- NOTES:
1. SEE P&ID 9.2-1A FOR SERVICE WATER PUMP AND COOLING WATER EXCHANGERS IN THIS SYSTEM.
  2. THE FOLLOWING VALUES ARE THE DESIGN VALUES FOR THE SERVICE WATER SYSTEM:
    - a. FLOW RATE: 1000 GPM
    - b. PRESSURE: 100 PSIG
    - c. TEMPERATURE: 100°F
  3. THIS PORTION OF UNIT 1 IS A SERVICE WATER SYSTEM AND IS NOT A PRIMARY SYSTEM.
  4. THIS PORTION OF UNIT 1 IS A SERVICE WATER SYSTEM AND IS NOT A PRIMARY SYSTEM.





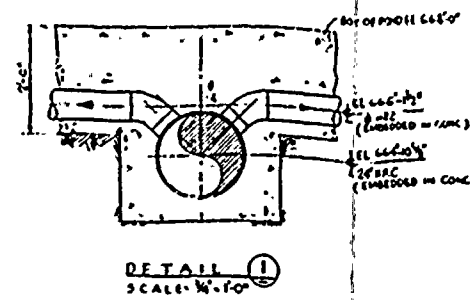
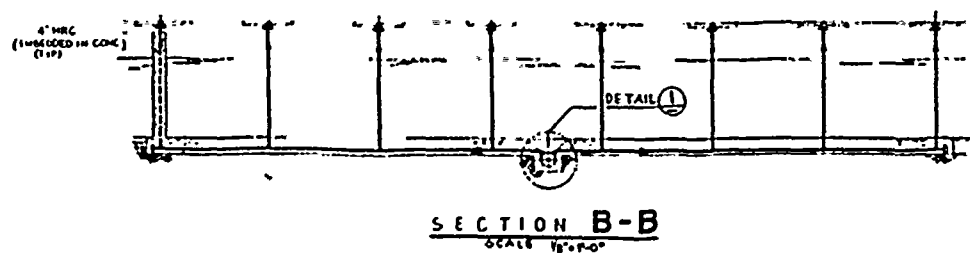
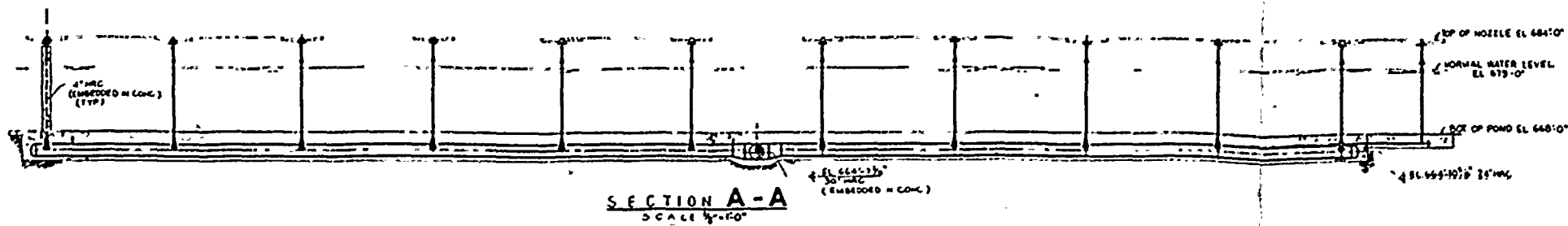
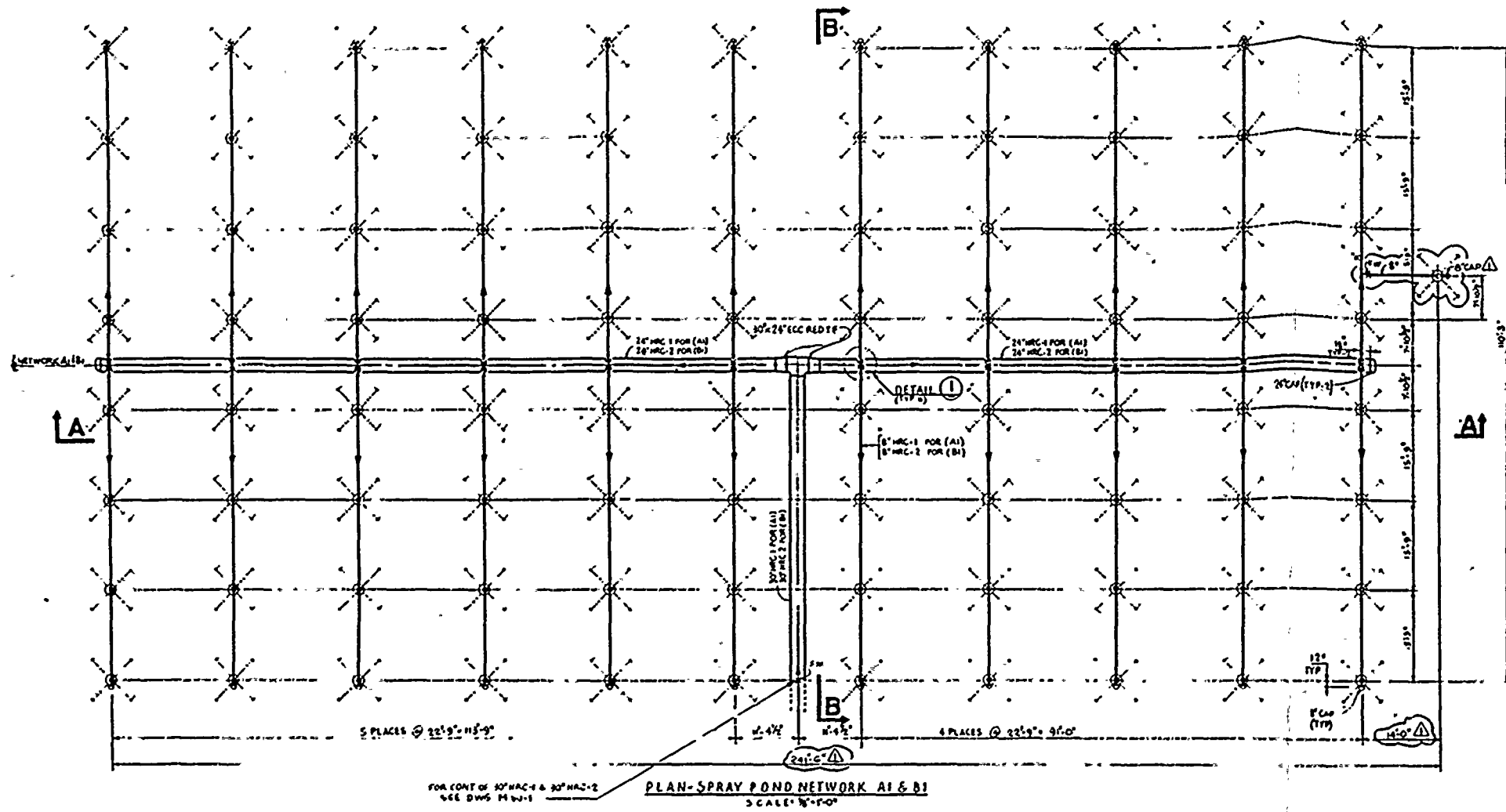
PLAN - SPRAY POND

FSAR REV. 49, 04/96

<p>SUSQUEHANNA STEAM ELECTRIC STATION UNITS 1 AND 2 FINAL SAFETY ANALYSIS REPORT</p>
<p>SPRAY POND NETWORK</p>
<p>FSAR FIGURE 9.2-22-1</p>

PP&L DRAWING E-162158, Sh. 1





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SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

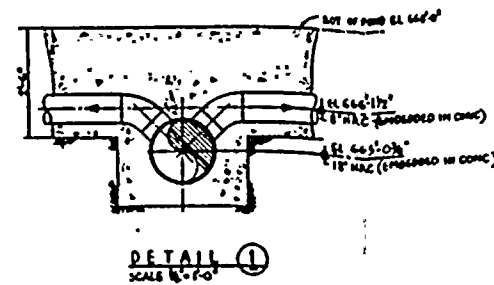
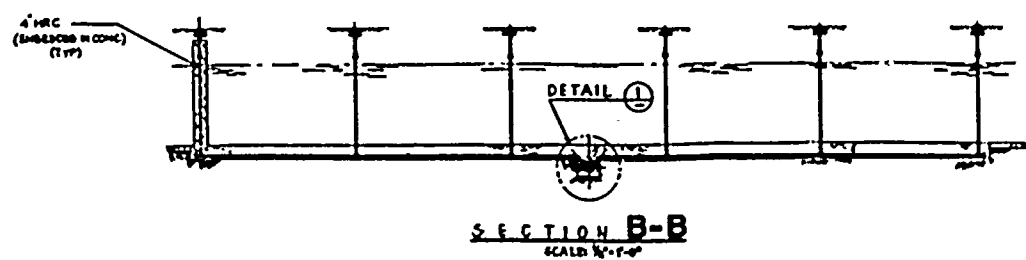
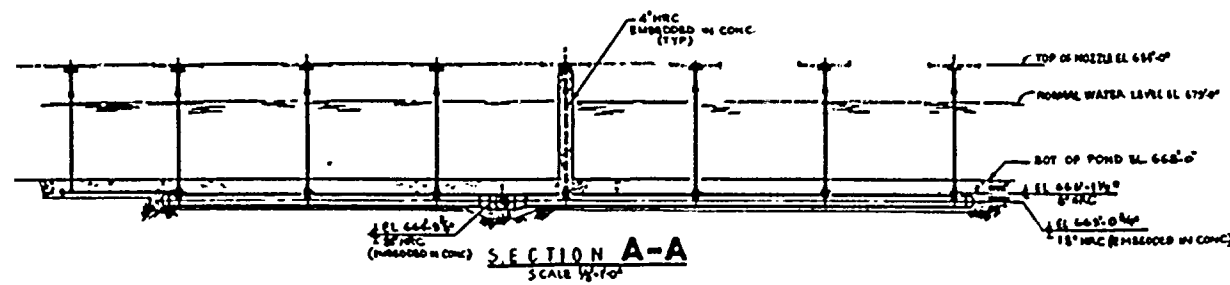
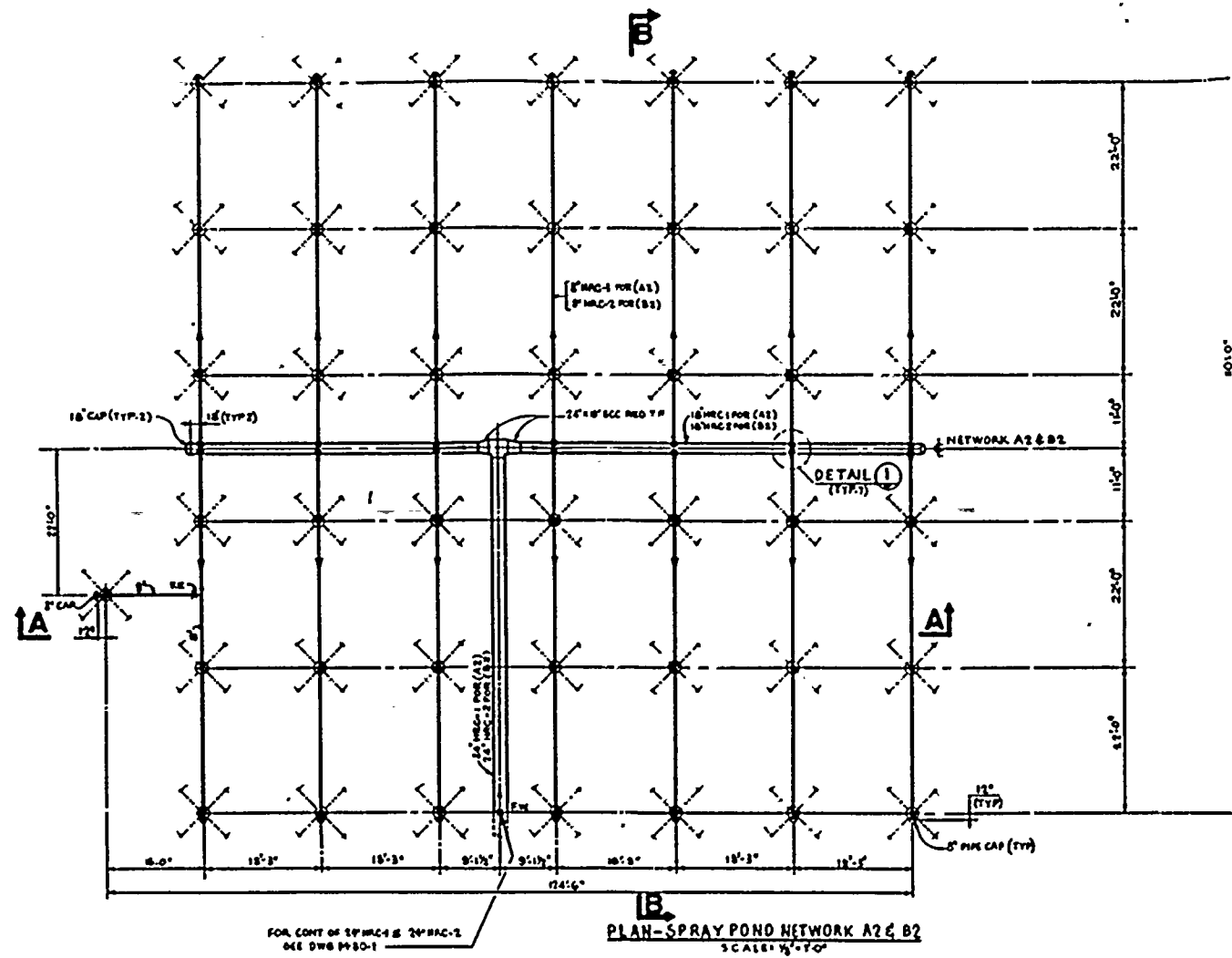
SPRAY POND NETWORK

FSAR FIGURE 9.2-22-2

PP&L DRAWING 162305, Sh. 2







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SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
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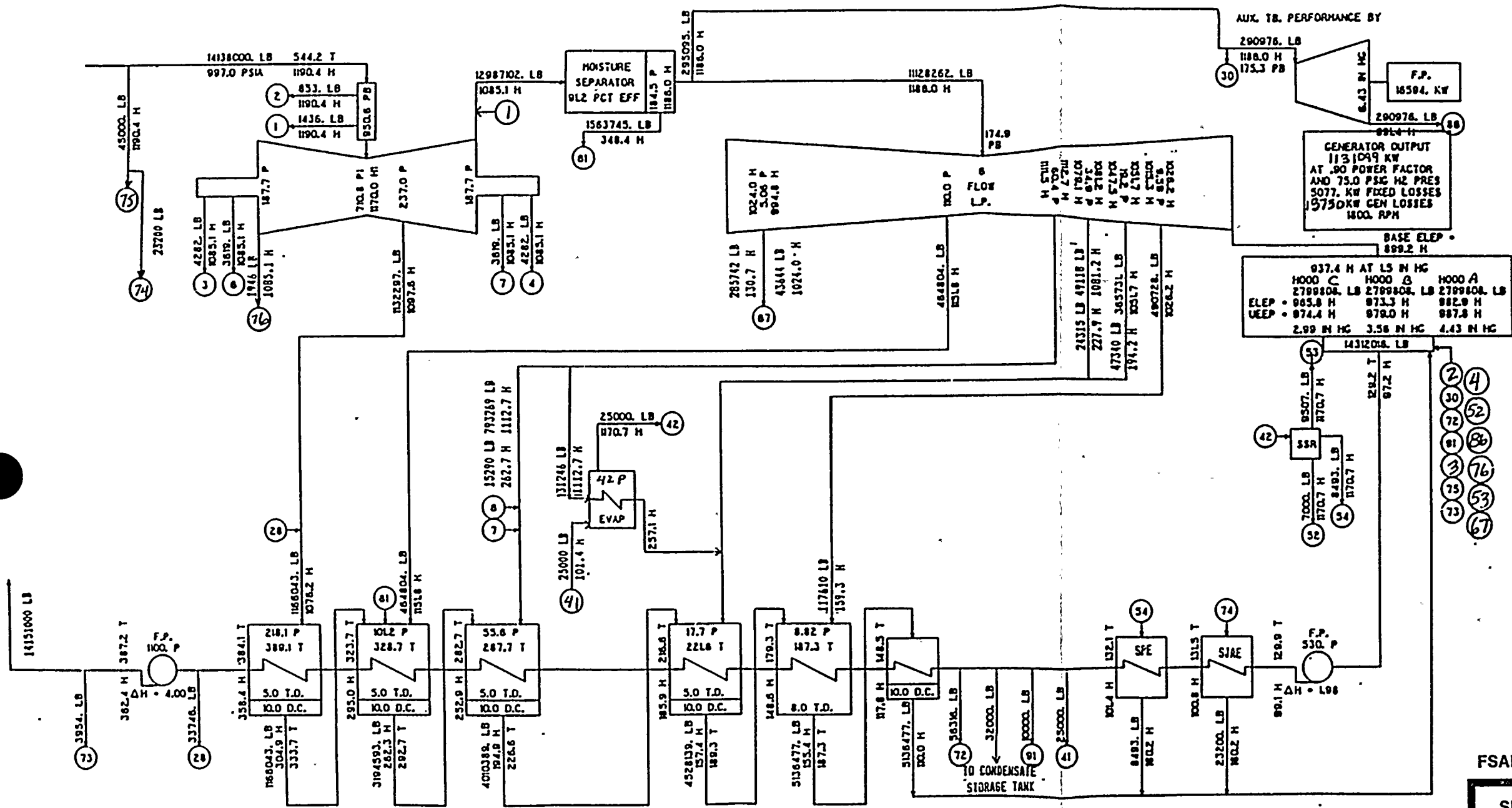
SPRAY POND NETWORK

FSAR FIGURE 9.2-22-3

PP&L DRAWING 162158, Sh. 3



SUSQUEHANNA UNIT 1  
100% RATED FLOW



AUX. TB. PERFORMANCE BY  
 290976. LB  
 1188.0 H  
 175.3 PB  
 6.43 IN HG  
 F.P.  
 16594. KW  
 290976. LB  
 899.2 H

GENERATOR OUTPUT  
 1131099 KW  
 AT .90 POWER FACTOR  
 AND 75.0 PSIG H2 PRES  
 5077. KW FIXED LOSSES  
 19750 KW GEN LOSSES  
 1800. RPM

BASE ELEV. = 899.2 H  
 937.4 H AT L5 IN HG  
 1000 A  
 2789804. LB 2789804. LB 2789804. LB  
 ELEV. = 945.8 H 873.3 H 982.9 H  
 WEIP = 874.4 H 878.0 H 987.8 H  
 2.99 IN HG 3.56 IN HG 4.43 IN HG

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VALVE BEST POINT NET HEAT RATE  $\frac{14138000 (1190.4-362.4) + 32000 (362.4-101.4)}{1131099} = 10357$  BTU KW-HR

LEGEND - CALCULATIONS BASED ON 1987 ASME STEAM TABLES  
 LB - FLOW-LB/HR  
 P - PRESSURE-PSIA  
 H - ENTHALPY-BTU/LB  
 T - TEMPERATURE-F DEGREES

1131099 KW 2.99 / 3.56 / 4.43 IN HG ABS  
 ICAF 38.0 IN L5@ 1800 RPM  
 997. PSIA 1190.4 BTU/LB NON REHEAT  
 GEN - 1298000 KVA 75.0 PSIG H5 PRES .90 PF L10

REV 1 9/27/91 *slp*  
 080171 588 308500882 2 *slp*

FSAR REV. 49, 04/96

**SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT**

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**GUARANTEED FLOW  
 UNIT 1**

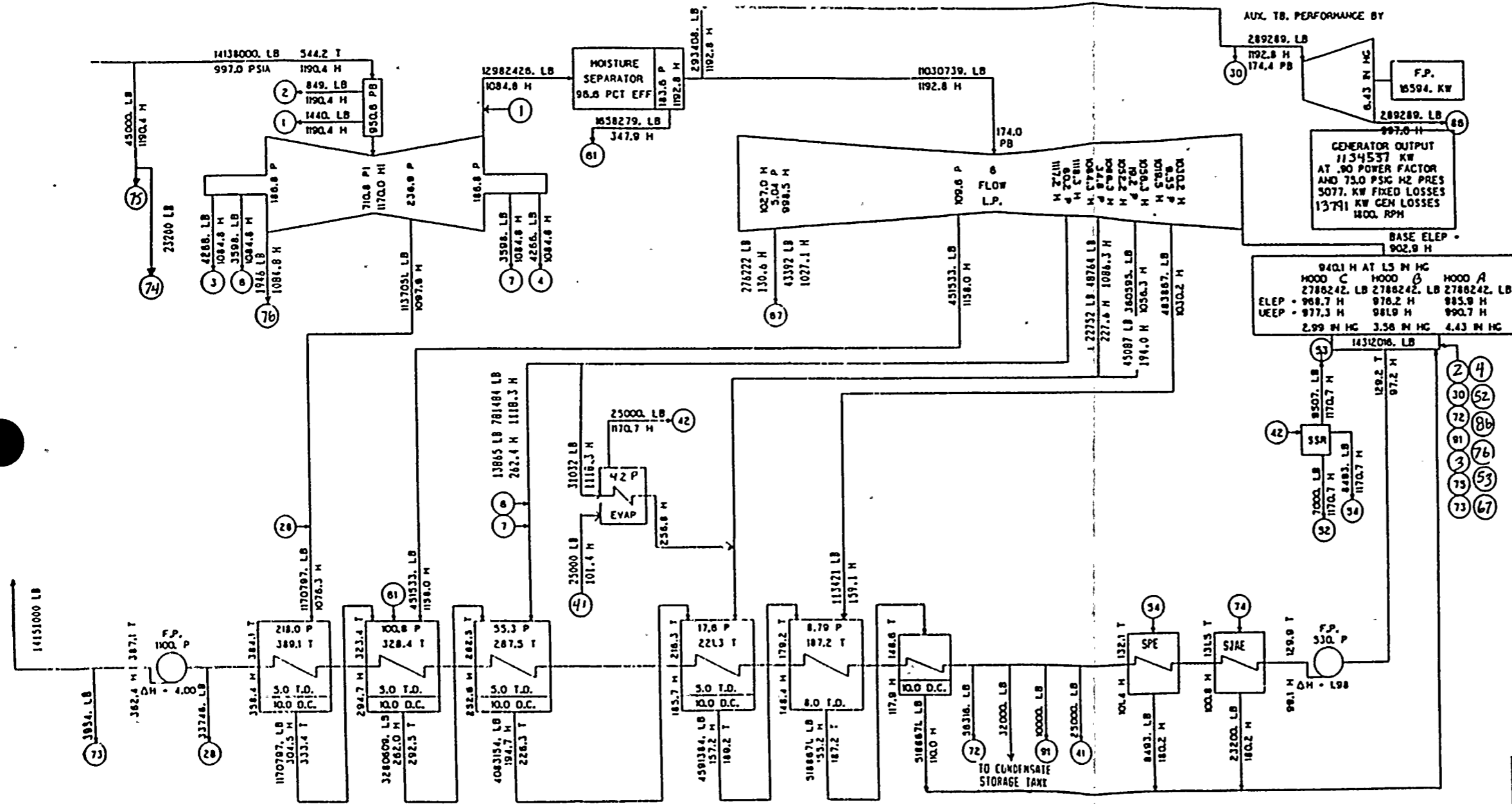
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FSAR FIGURE 10.1-1a



SUSQUEHANNA UNIT 2  
100% RATED FLOW

EXTRACTION ARRANGEMENT IS SCHEMATIC ONLY



AUX. TB. PERFORMANCE BY

289289. LB  
1192.8 H  
174.4 PB

6.43 IN HG

F.P.  
18594. KW

289289. LB  
997.0 H

GENERATOR OUTPUT  
1134537 KW  
AT .90 POWER FACTOR  
AND 75.0 PSIG H2 PRES  
5077. KW FRIED LOSSES  
13791 KW GEN LOSSES  
1100. RPM

BASE ELEP -  
902.9 H

HOOD C	HOOD B	HOOD A
2788242. LB	2788242. LB	2788242. LB
ELEP - 968.7 H	978.2 H	985.9 H
UEEP - 977.3 H	981.9 H	990.7 H
2.99 IN HG	3.56 IN HG	4.43 IN HG

1431206. LB

129.2 T  
97.2 H

9507. LB  
1170.7 H

7000. LB  
1170.7 H

8483. LB  
1170.7 H

32 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

VALVE BEST POINT... 14138000 (1119.4-362.4) + 32000 (362.4-101.4) = 19325 BTU  
NET HEAT RATE 1134537 KW-HR

LEGEND - CALCULATIONS BASED  
ON 1967 ASME STEAM TABLES  
LB - FLOW-LB/HR  
P - PRESSURE-PSIA  
H - ENTHALPY-BTU/LB  
T - TEMPERATURE-DEGREES

1134537 KW 2.99 / 3.56 / 4.43 IN HG ABS  
TC&F 38.0 IN L50 1800 RPM  
997. PSIA 1190.4 BTU/LB NON REHEAT  
GEN - 1298000 EVA 75.0 PSIG HS PRES .90 PF L10

08071 588 308309882 2 *dep* REVI 9  
5054273 8/18/77

GENERAL ELECTRIC COMPANY, SCHENECTADY N.Y.

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
UNITS 1 AND 2  
FINAL SAFETY ANALYSIS REPORT

GUARANTEED FLOW  
UNIT 2

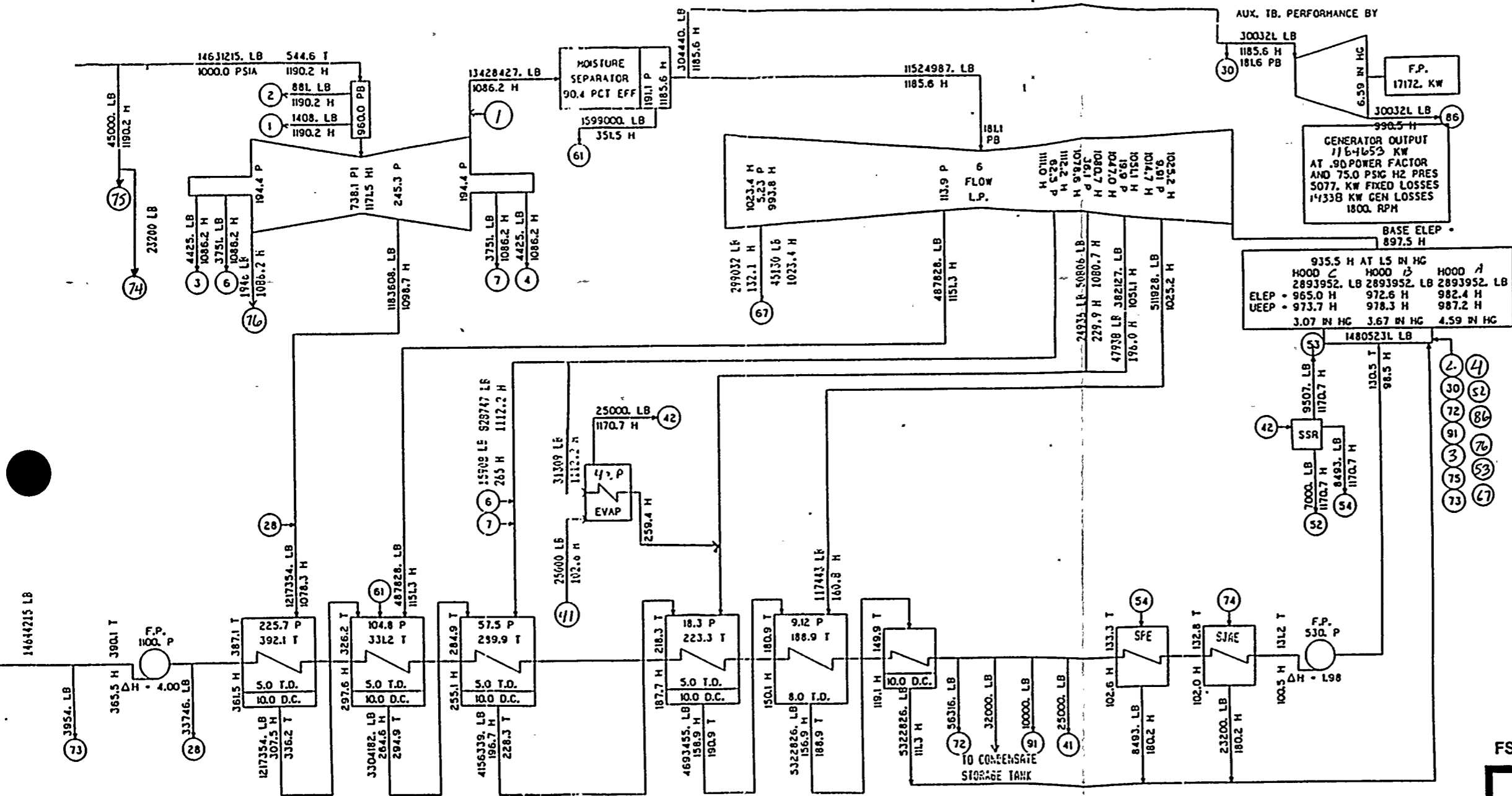
FSAR FIGURE 10.1-1b

PP&L DRAWING Ref-IOM 872



CALCULATED DATA - NOT GUARANTEED

RATING FLOW GUARANTEED IS 14631215 LB AT 3LET STEAM CONDITIONS OF 997. PSIA 1190.4 H TO ASSURE THAT THE TURBINE WILL PASS THIS FLOW, CONSIDERING VARIATIONS IN FLOW COEFFICIENTS FROM EXPECTED VALUES, SHOP TOLERANCES ON DRAWING AREAS, ETC. WHICH MAY AFFECT THE FLOW, THE TURBINE IS BEING DESIGNED FOR A DESIGN FLOW RATING FLOW PLUS 3.4 PERCENT OF 14631215. LB THE EQUIVALENT DESIGN FLOW AT 1000. PSIA 1190.2 H IS 14631215. LB.



VALVE BEST POINT NET HEAT RATE  $\frac{14631215 (1190.2-365.5) + 32000 (365.5-102.6)}{1154653} = 10248 \text{ BTU/LB-HR}$

LEGEND - CALCULATIONS BASED ON 1987 ASME STEAM TABLES  
 LB - FLOW-LB/HR  
 P - PRESSURE-PSIA  
 H - ENTHALPY-BTU/LB  
 T - TEMPERATURE-DEGREES

1131699 IN 2.99 / 3.55 / 4.43 IN HG ABS  
 1CSF 38.0 IN LSR 1860 RPM  
 97. PSIA 1190.4 BTU/LB NON REHEAT  
 (EN - 1295000) 11A 75.0 PSIG HS PRES .70 FF L10

080171 568 308510000 1  
 505HB267  
 FOR REFERENCE ONLY

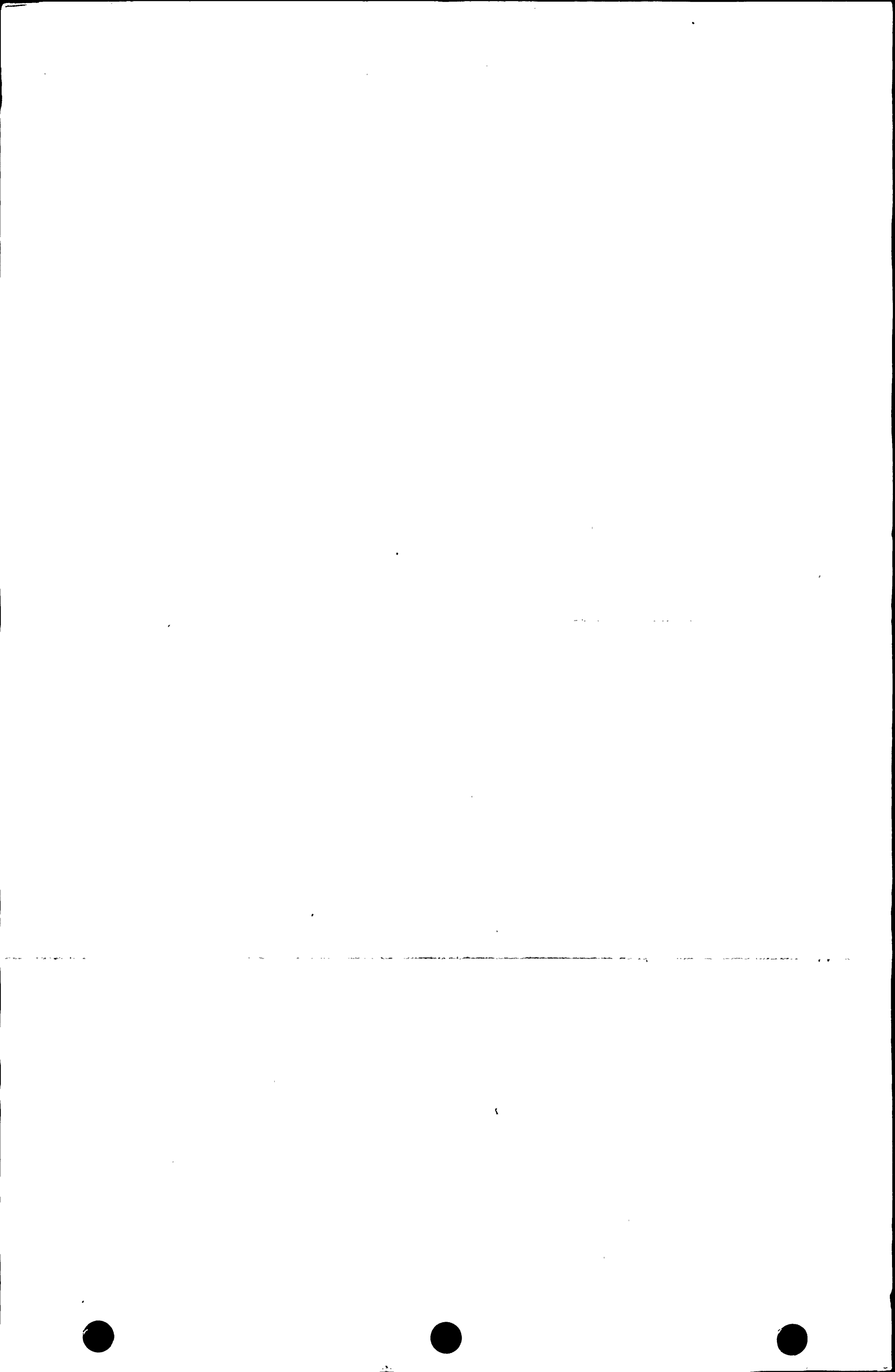
FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

DESIGN FLOW  
 UNIT 1

FSAR FIGURE 10.1-2a

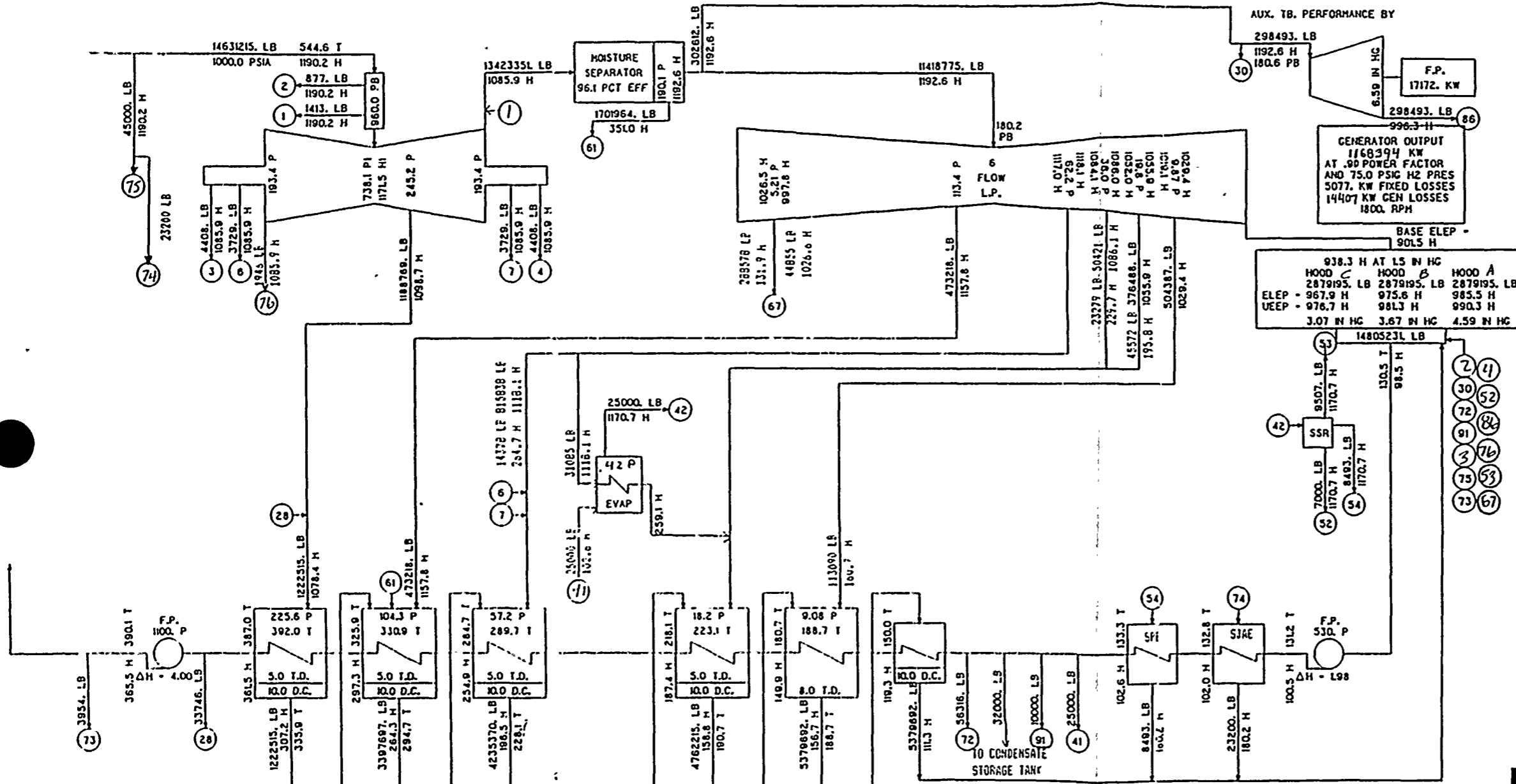
PP&L DRAWING Ref.-IOM 872





CALCULATED DATA - NOT GUARANTEED

RATING FLOW GUARANTEED IS 14631215 LB AT INLET STEAM CONDITIONS OF 997. PSIA 1190.4 H TO ASSURE THAT THE TURBINE WILL PASS THIS FLOW, CONSIDERING VARIATIONS IN FLOW COEFFICIENTS FROM EXPECTED VALUES, SHOP TOLERANCES ON DRAWING AREAS, ETC. WHICH MAY AFFECT THE FLOW. THE TURBINE IS BEING DESIGNED FOR A DESIGN FLOW RATING FLOW PLUS 3.4 PERCENT OF 14631215, LB THE EQUIVALENT DESIGN FLOW AT 1000. PSIA 1190.2 H IS 14631215, LB.



VALVE BEST POINT.  $\frac{14631215 (1190.2 - 765.5) + 32000 (365.5 - 102.6)}{1166374} = 10335 \text{ KIN}$   
 NET HEAT RATE  $\frac{14631215}{1166374} = 12.5 \text{ IN-HR}$

LEGEND - CALCULATIONS BASED ON 1987 ASME STEAM TABLES  
 LB - FLOW-LB/HR  
 P - PRESSURE-PSIA  
 H - ENTHALPY-BTU/LB  
 T - TEMPERATURE-DEGREES  
 1134537 IN 2.99 / 3.55 / 4.43 IN HG ABS  
 105F 39.0 IN LSB 1800 RPM  
 997. PSIA 1190.4 BTU/LB NON REHEAT  
 6EH - 1295600 KVA 75.0 PSIG HS PRES .90 FF LIO

080171 568 308310000 1  
 505HR272  
 REVI 8  
 REV2  
 6/20/91

FOR REFERENCE ONLY

FSAR REV. 49, 04/96

SUSQUEHANNA STEAM ELECTRIC STATION  
 UNITS 1 AND 2  
 FINAL SAFETY ANALYSIS REPORT

DESIGN FLOW  
 UNIT 2

FSAR FIGURE 10.1-2b

