

ATTACHMENT 1

PUMP AND VALVE RELIEF REQUEST SUMMARY

RELIEF REQUEST NUMBER	PREVIOUS NUMBER (4)	STATUS	SUMMARY OF CHANGES	REQUESTED NRC ACTION
PR-1	PR-1	APPROVED (1)	Revised to reference 1989 Code.	None
PR-2	PR-9	APPROVED (1)	Revised to reference 1989 Code.	None
PR-3	PR-11	APPROVED (1)(3)	Revised to clarify the inclusion of the discharge pressure gauge and reference 1989 Code.	None
PR-4	PR-12	APPROVED (2)	Revised to reference 1989 Code.	None
PR-5	N/A	NEW RELIEF REQUEST	Addresses frequency response range of vibration instruments.	Requires NRC review
VR-1	VR-9	APPROVED (2)	Revised to reference 1989 Code.	None
VR-2	VR's 10, 11	APPROVED (2)	Revised to combine two relief requests pertaining to pressure isolation valve testing, and reference 1989 Code.	None

- (1) NRC letter to J. H. Goldberg dated September 20, 1991
- (2) NRC letter to J. H. Goldberg dated August 20, 1992
- (3) No change in approved method of alternate testing.
- (4) Previous number as identified in revision 4 of the Second Ten-Year Inservice Testing Program for Turkey Point Units 3 and 4

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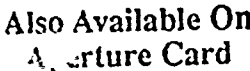


ATTACHMENT 2



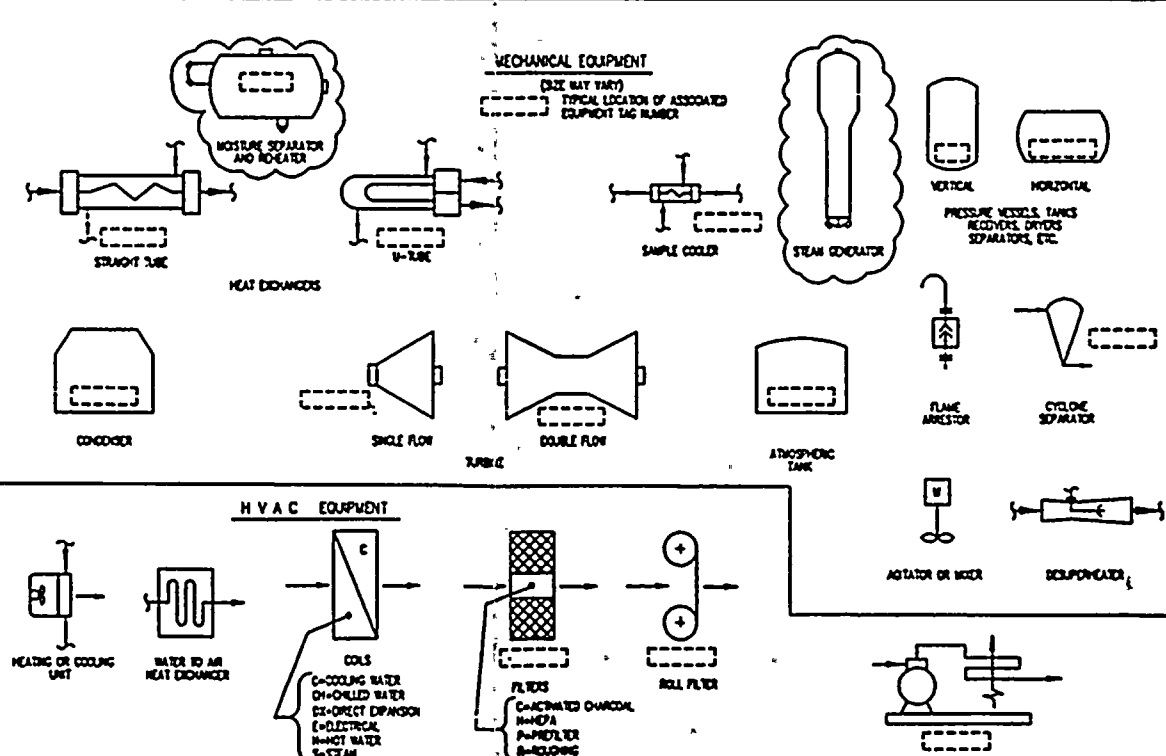
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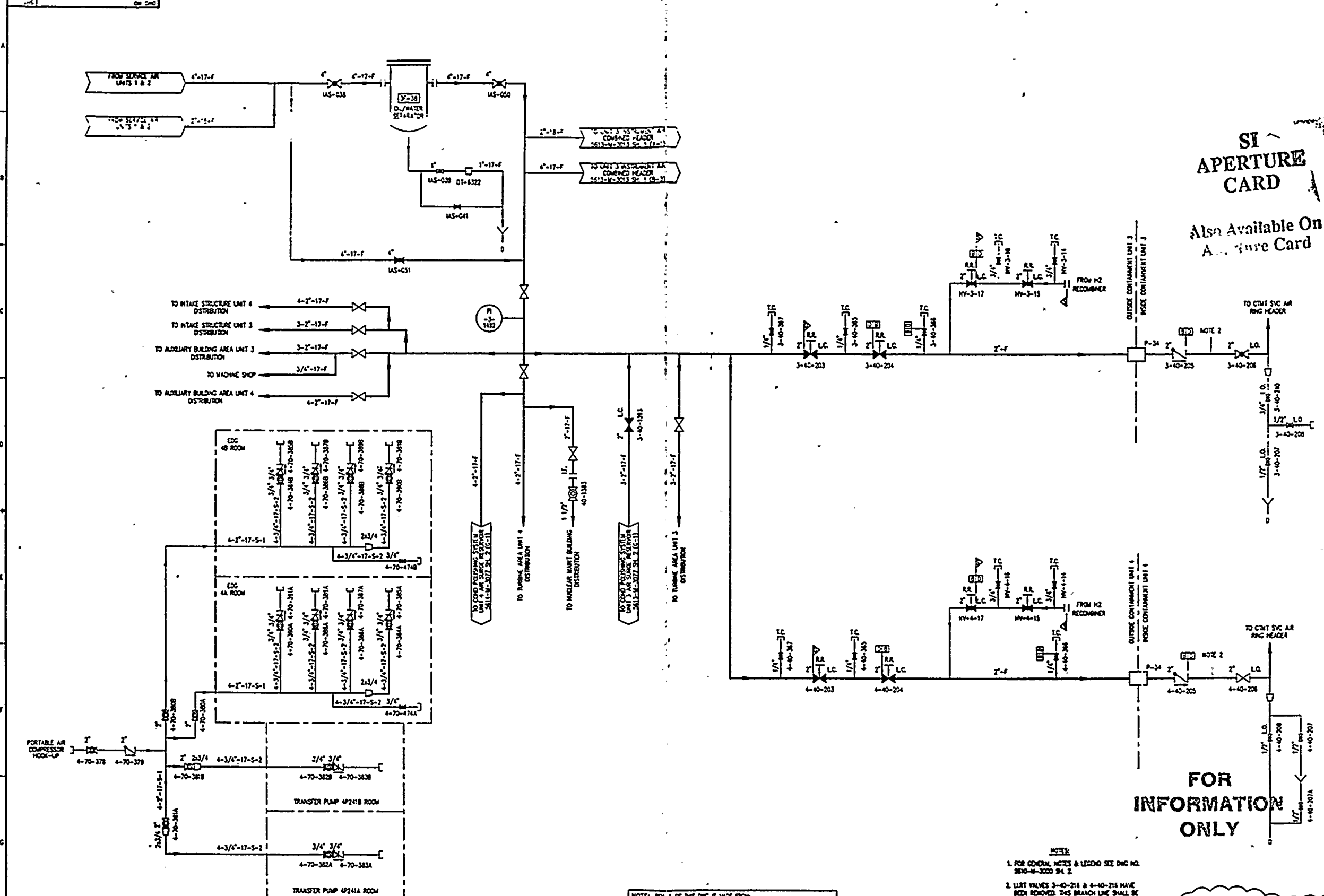


GENERAL NOTES

1. ALL EQUIPMENT AND VALVES ARE SHOWN WITH THE PLANT IN MODE 1
FOR NORMAL POWER GENERATION. UNLESS OTHERWISE NOTED.
2. FOR BECHTEL PIPING CLASS 5-4ETS, SEE 3177-PS-10 AND 3177-PS-11.
FOR WESTINGHOUSE PIPING CLASS SHEETS SEE 3-EPIC 3-389844.
3. FOR ORIGINAL BECHTEL MASTER VALVE LIST, SEE 3177-PS-12.
FOR ORIGINAL WESTINGHOUSE VALVE REFERENCE GUIDE, SEE 3-EPIC 678386.
4. FOR INSTRUMENT BOX SEE 3610-B-31.
5. FOR EQUIPMENT LIST SEE 3610-B-312.
6. FOR VALVE BOX SEE 3610-B-314.
7. UNTAGGED VALVES AND VALVE HANDWHEELS INSTALLED DOWNSTREAM OF THE PROCESS
ISOLATION VALVES WITHIN AN INSTRUMENTATION LOOP WILL NOT BE SHOWN ON THE DRAWING.
8. ALL MOTOR OPERATED VALVES ARE EQUIPPED WITH HANDWHEELS.
9. UNLESS OTHERWISE NOTED, VALVES CONNECTED AS L.O., L.C., OR S.A.L. ARE PHYSICALLY
LOCKED AT THE VALVE AND REPRESENT THOSE VALVES REQUIRED TO BE L.O. OR L.C.
BY DIAGNOSTIC SPECIFICATION OR LOCKED BY PLANT OPERATING PROCEDURE.
10. ACRONYMS AND ABBREVIATIONS FOR PLANT POINT ADMINISTRATIVE PROCEDURE 01337.
11. FOR AMPLIFIER WINDOW DRAWING SEE 3610-B-38 AND 39.
12. THE GOING VALVE SYMBOL DOES NOT REPRESENT A DESIGN BASIS REQUIREMENT OR PROTECT
THE AS-BUILT CONFIGURATION. IT CAN BE USED WHEN THE FOLLOWING CONDITIONS ARE MET:
-NORMAL PURPOSE IS ISOLATION OR SHUT-OFF
-NOT REQUIRED BY SPECIFICATIONS TO BE A CERTAIN TYPE
-NOT POWER OPERATED
-NOT LOCATED IN-LINE OF A PROCESS FLOW SYSTEM
13. SAFETY RELATED PIPING SECTIONS MAY BE DESIGNATED AS QUALITY GROUP A, B, OR C
IN ACCORDANCE WITH PC/M 89-542 AND REG. GUIDE 1.8S OR ACCORDATIONALLY DESIGNATED
AS "3" INDICATING NON-QUALITY GROUP A, B, OR C DESIGN PIPING SCOPE.
14. QUALITY GROUP "D" DESIGNATION IS APPLICABLE AS FOLLOWS:
-NON-SAFETY PIPING SCOPE
-QUALITY RELATED PIPING SCOPE (WHEN SHOWN CONCORDANT TO B OR C FLANS FOR
PC/M 89-542 AND REG. GUIDE 1.8S)
15. ISOLATION SIGNAL ABBREVIATIONS:
P-PH CONTAMINANT PRESS SIGNAL
S-SAFETY ISOLATION SIGNAL
T-PHASE "A" CONTAMINANT ISOLATION
16. ALL FIRE HAZARDOUS IN SYSTEM (SIS (FIRE PROTECTION SYSTEM)) ARE PROVIDED
WITH ANTI-UNTAGGED SYSTEM FOR VALVES WHICH ARE NOT OPERATED ON THE P & ID.

[illegible][illegible]

TURKEY POINT NUCLEAR UNITS 3 & 4		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
P&ID		DRAWING NUMBER 5610-M-3000	SYS ALL
LEGEND & GENERAL NOTE.*		Sheet 2	REV 3



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- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DNG NO. 5610-M-3000 SH. 2.
 2. LIFT VALVES 3-40-216 & 4-40-216 HAVE BEEN REMOVED. THIS BRANCH LINE SHALL BE FULLY OPEN DURING MODES 1 & 2 FOR PROPOSED OPERATION OF THE HYDROGEN RECOMBINER. THE OPENING CAN BE PLUGGED IN OTHER MODES TO PRESURIZE THE SERVICE AIR RING HEAD. A FITTING ASSEMBLY IS REQUIRED FOR LIFT OF THIS PENETRATION.

REFERENCE DRAWINGS:

- 5613-M-3077 SH. 2 COCONUT POLISHING SYSTEM
- 5614-M-3077 SH. 2 COCONUT POLISHING SYSTEM
- 5613-M-3013 SH. 1 INSTRUMENT AIR SYSTEM

NOTE: REV. 1 OF THIS DNG IS MADE FROM:
FPL P&ID 5610-M-344 SH. 1 REV. 21

NOTE: THIS DNG IS MADE FROM:
FPL P&ID 5610-M-344 SH. 1 REV. 25
FPL P&ID 5610-M-344 SH. 1 REV. 40

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-344 REV. 6
5610-M-11 REV. 36

REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP
3	09-20-83	ISSUED AS-BUILT FOR DCR-TPM-83-302.	SM	MD	UK	MFH	2	3-17-82	ISSUED AS-BUILT FOR DCR-TPM-81-437.				
4	04-01-83	ISSUED AS-BUILT FOR DCR-TPM-83-026 BY COPYING SERVICE AIR DISTRIBUTION TO ECC 4A & 4B FROM 5614-M-738 SH. 1. REARRANGED DNG FOR NEW COMPONENTS.	NO	CM	RTR	JAP	1	2-19-82	ALL REV 1 CHANGES IN ACCORDANCE WITH P & ID RECONSTRUCTION PROJECT SCOPE PER DCR-TPM-82-015.				
							0	11-25-81	THIS DNG REEXAMIN ON CAD FROM 5610-M-11, 5610-M-4 SH. 1 DNG SUPERSEDES 5610-M-344, 5610-M-11, AND ISSUED INTO THE FPL DNG SYSTEM PER DCR-TPM-81-532.				
3	2-10-83	ISSUED AS-BUILT FOR PC/M 82-050 AND PC/M 82-542.	SP										

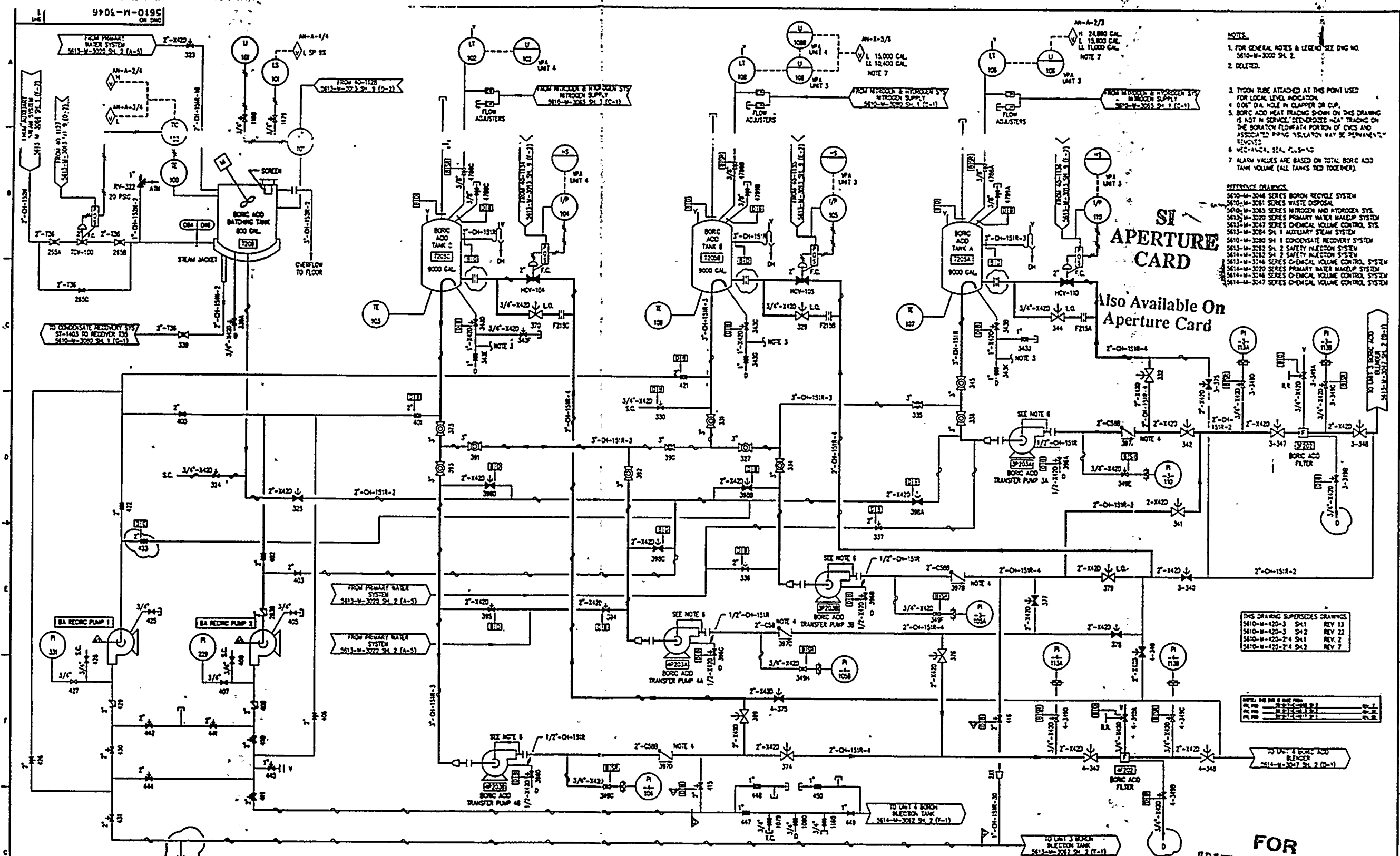
	TURKEY POINT NUCLEAR UNIT 3 & 4		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
	INSTRUMENT AIR SYSTEM SERVICE AIR DISTRIBUTION FROM UNITS 1 & 2		DRAWING NUMBER 5610-M-3013	SYS 013
			REV 5	
			SH-CT 1	

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1944

1944

1944



- NOTE**
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
 2. DELETED.
 3. TYPON PIPE ATTACHED AT THIS POINT USED FOR LOCAL LEVEL INDICATION.
 4. 60" DIA. HOLE IN CLAPPER ON C.P.
 5. BORIC ACID HEAT TRACING SHOWN ON THIS DRAWING IS NOT IN SERVICE. DEPENDENCE HEAT TRACING ON THE BORATION FLOWPATH PORTION OF CYCLES AND ASSOCIATED PIPING VESSELATION MAY BE PERMANENTLY REVISED.
 6. MECHANICAL SEAL, P.S. 9-10.
 7. ALARM VALUES ARE BASED ON TOTAL BORIC ACID TANK VOLUME (ALL TANKS TIED TOGETHER).
- REFERENCE DRAWINGS**
- 5610-M-3046 SERIES BORON RECYCLE SYSTEM
 - 5610-M-3051 SERIES WASTE DISPOSAL
 - 5610-M-3085 SERIES NITROGEN AND HYDROGEN SYS.
 - 5610-M-3220 SERIES PRIMARY WATER WASTEUP SYSTEM
 - 5610-M-3247 SERIES CHEMICAL VOLUME CONTROL SYS.
 - 5610-M-3284 SH. 1 AUXILIARY STEAM SYSTEM
 - 5610-M-3280 SH. 1 CONDENSATE RECOVERY SYSTEM
 - 5610-M-3282 SH. 2 SAFETY INJECTION SYSTEM
 - 5610-M-3282 SH. 2 SAFETY INJECTION SYSTEM
 - 5610-M-3284 SERIES CHEMICAL VOLUME CONTROL SYSTEM
 - 5610-M-3220 SERIES PRIMARY WATER WASTEUP SYSTEM
 - 5610-M-3246 SERIES CHEMICAL VOLUME CONTROL SYSTEM
 - 5610-M-3247 SERIES CHEMICAL VOLUME CONTROL SYSTEM

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THIS DRAWING SUPERSEDES DRAWINGS

5610-M-420-3	SH.1	REV. 13
5610-M-420-3	SH.2	REV. 22
5610-M-420-3	SH.3	REV. 2
5610-M-420-3	SH.4	REV. 7

FOR INFORMATION ONLY

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6	2-11-83	ISSUED AS-BUILT FOR PC/M'S 83-484, 80-423, 80-424, 80-440, 81-082 & 82-080 AND INCOMP. ORN-M-3407.	SP	INITIALS	IN FILE	10	8-10-83	ISSUED AS-BUILT FOR PC/M 82-083.	RM	RY	-	JY
5	12-21-82	ISSUED AS-BUILT FOR PC/M 83-542 AND DCR-PM-82-213.	LAW	INITIALS	IN FILE	9	03-19-83	ISSUED AS-BUILT FOR DCR-PM-83-143 & 83-242.	DO	DN	LR	JY
4	3-9-82	ISSUED AS-BUILT FOR DCR-PM-82-014 AND DCR-PM-82-033.	ALL	WFL	LS	8	04-01-83	ISSUED AS-BUILT FOR PC/M 82-011 AND PC/M 83-022.	NO	DN	ROC	JY
3	3-27-82	ISSUED AS-BUILT FOR PC/M 80-440 AND INCOMP. ORN-M-3082.	SMW	WFL	LS	7	3-6-83	ISSUED AS-BUILT FOR DCR-PM-83-075.	SP	INITIALS	IN FILE	WFL
11	09-20-83	ISSUED AS-BUILT FOR PC/M 83-084.	SMW	WFL	LS	6	3-5-81	THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DCS SYSTEM FOR DCR-PM-81-045.	WFL	WFL	LS	WFL
REV	DATE	REVISION	BY	CHK	APP	REV	DATE	REVISION	BY	CHK	APP	APP



STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

TURKEY POINT NUCLEAR UNITS 3 & 4

CHEMICAL AND VOLUME CONTROL SYSTEM

BORIC ACID SYSTEM

5610-M-3046

SH. 1

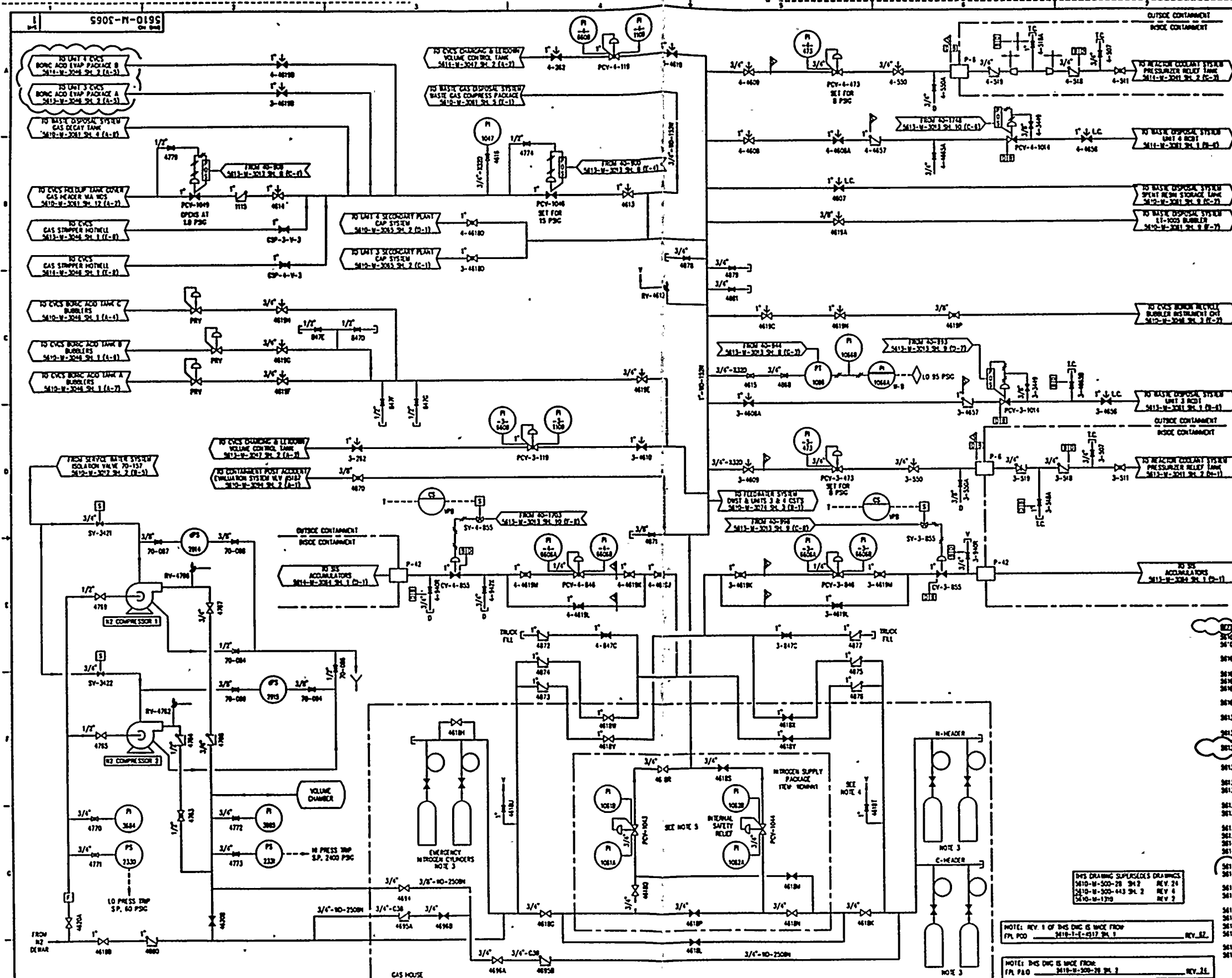
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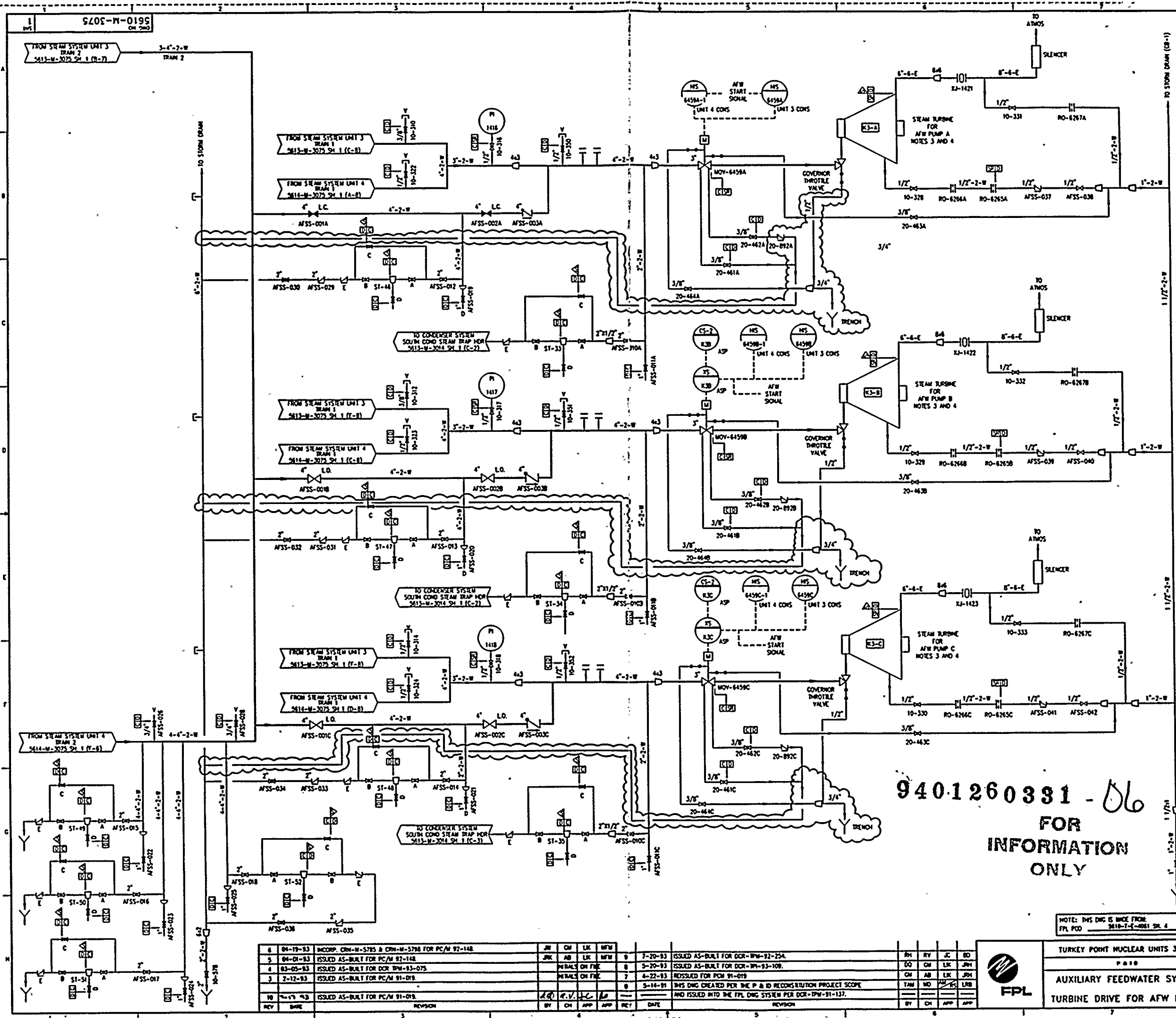
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- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2
 2. DELIVERED.
 3. TYPICAL ARRANGEMENT FOR DCHT NITROGEN CYCLOPS FOR HEADS
 4. VALVE 4612 IS ALSO A NITROGEN TRAILER CONNECTION
 5. ADJUST IN-SERVICE REGULATOR FOR 100 PSC. ADJUST BACKUP FOR 50 PSC.

- REVISIONS:
- | NO. | DATE | DESCRIPTION |
|-----|----------|--------------------------------|
| 1 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 2 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 3 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 4 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 5 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 6 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 7 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 8 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 9 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 10 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 11 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 12 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 13 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 14 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 15 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 16 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 17 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 18 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 19 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 20 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 21 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 22 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 23 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 24 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 25 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 26 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 27 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 28 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 29 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 30 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 31 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
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| 35 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 36 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 37 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 38 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 39 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
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| 44 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 45 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 46 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 47 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 48 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 49 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 50 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 51 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 52 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 53 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 54 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 55 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 56 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 57 | 10-10-63 | ISSUED AS-BUILT FOR PCN 93-002 |
| 58 | 10-10-63 | |

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- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO 5610-M-3000 SH. 2
 2. VALVES LABELED A THRU J (EXCLUDING I) ARE AT STEAM TRAPS ONLY. THESE VALVES ARE TAGGED IN THE PLANT FOR OPERATIONS USE ONLY. ALPHA DESIGNATIONS ARE PRECEDED BY ASSOCIATED STEAM TRAP MARK NUMBERS AND ARE NOT IN SET. THE OPERATIONS FULL TAG NUMBERS ARE NOT SHOWN ON DRAWING.
 3. FOR AUXILIARY FEEDWATER PUMPS SEE DWG NO 5610-M-3075 SH. 2
 4. TURBINE OVERSPEED TRIP SETPOINTS
ELECTRICAL: 6200 ± 50RPM
MECHANICAL: 6500 ± 50RPM

- REFERENCE DRAWINGS:
- | | |
|--------------------|----------------------------|
| 5613-M-3014 SH. 1 | CONDENSER SYSTEM |
| 5613-M-3018 SH. 1 | CONDENSATE STORAGE SYSTEM |
| 5613-M-3075 SERIES | AUXILIARY FEEDWATER SYSTEM |
| 5614-M-3018 SH. 1 | CONDENSATE STORAGE SYSTEM |
| 5614-M-3075 SERIES | AUXILIARY FEEDWATER SYSTEM |
| 5610-M-3012 SH. 1 | SERVICE WATER SYSTEM |

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INFORMATION
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NOTE: THIS DWG IS BASED FROM:
FPL PCD 5610-T-4-4001 SH. 4

REV	DATE	BY	CHK	APP	REV	DATE	BY	CHK	APP
1	04-19-83	JMK	CM	LK	1	7-20-83	JMK	CM	LK
2	04-19-83	JMK	CM	LK	2	7-20-83	JMK	CM	LK
3	04-19-83	JMK	CM	LK	3	7-20-83	JMK	CM	LK
4	04-19-83	JMK	CM	LK	4	7-20-83	JMK	CM	LK
5	04-19-83	JMK	CM	LK	5	7-20-83	JMK	CM	LK
6	04-19-83	JMK	CM	LK	6	7-20-83	JMK	CM	LK
7	04-19-83	JMK	CM	LK	7	7-20-83	JMK	CM	LK
8	04-19-83	JMK	CM	LK	8	7-20-83	JMK	CM	LK
9	04-19-83	JMK	CM	LK	9	7-20-83	JMK	CM	LK
10	04-19-83	JMK	CM	LK	10	7-20-83	JMK	CM	LK



TURKEY POINT NUCLEAR UNITS 3 & 4
AUXILIARY FEEDWATER SYSTEM
TURBINE DRIVE FOR AFW PUMPS

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5610-M-3075
SHEET 1

POD

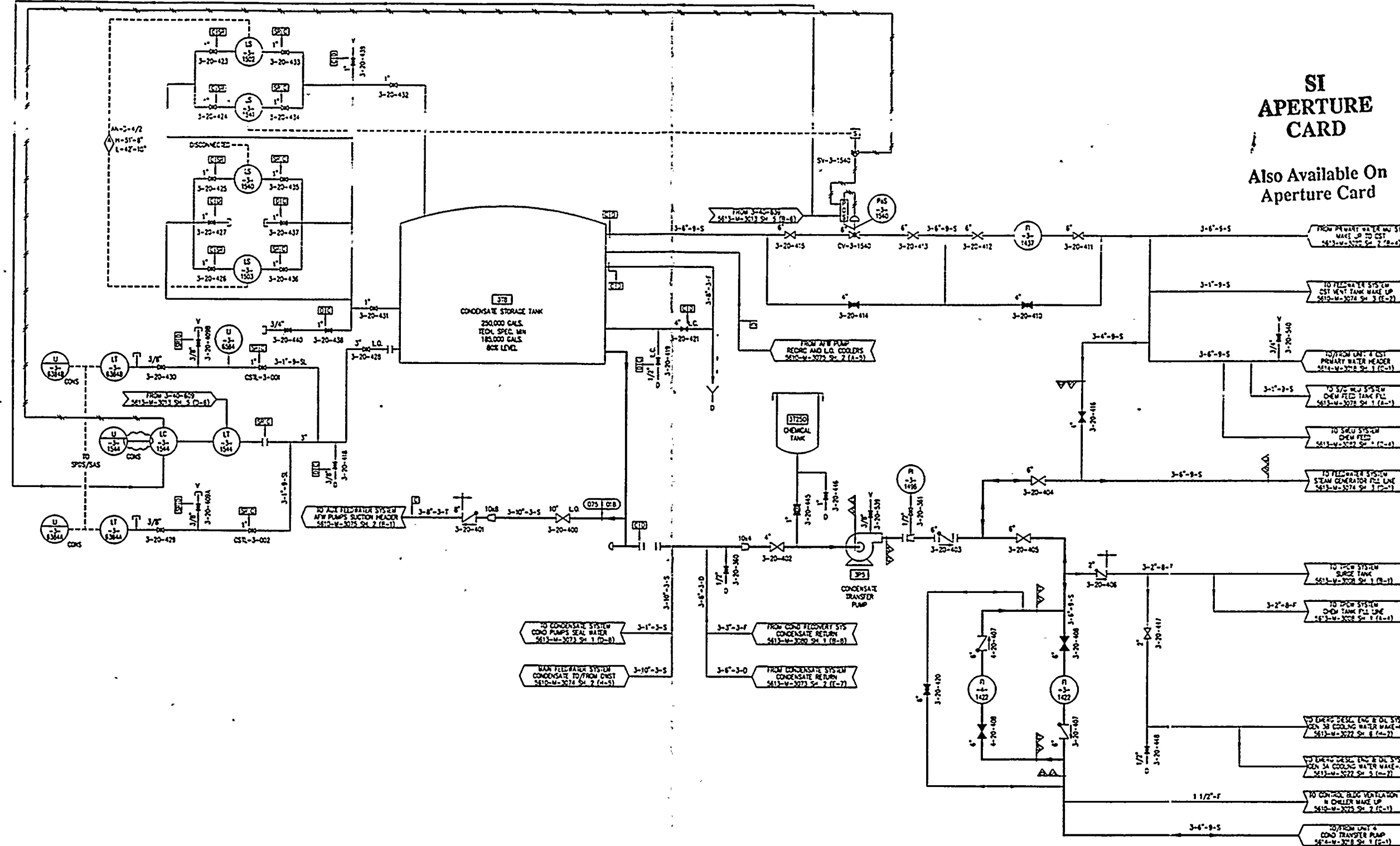
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THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-363 REV. 4
5610-M-1311 REV. 3

REFERENCE DRAWINGS:

- 5613-M-3008 SH. 1
- 5613-M-3018 SH. 1
- 5613-M-3020 SH. 2
- 5613-M-3022 SH. 5 & 6
- 5610-M-3025 SH. 2

TURBINE PLANT COOLING
WATER SYSTEM
CONDENSATE STORAGE SYSTEM
PRIMARY WATER MAKEUP SYSTEM
EALUENCY DIESEL ENGINE & OIL SYSTEM -
OIL (WATER) LO & COOLING WATER
CONTROL BUILDING VENTILATION -
COMPUTER FACILITY/CABLE SPREADING
ROOM HVAC

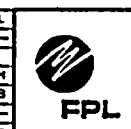
- 5613-M-3023 SH. 1 & 2
- 5610-M-3074 SH. 2
- 5613-M-3074 SH. 3
- 5610-M-3075 SH. 2
- 5613-M-3078 SH. 1
- 5613-M-3080 SH. 1
- 5613-M-3082 SH. 1

NOTES:

- FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
- DELETED.

**FOR
INFORMATION
ONLY** **POD**

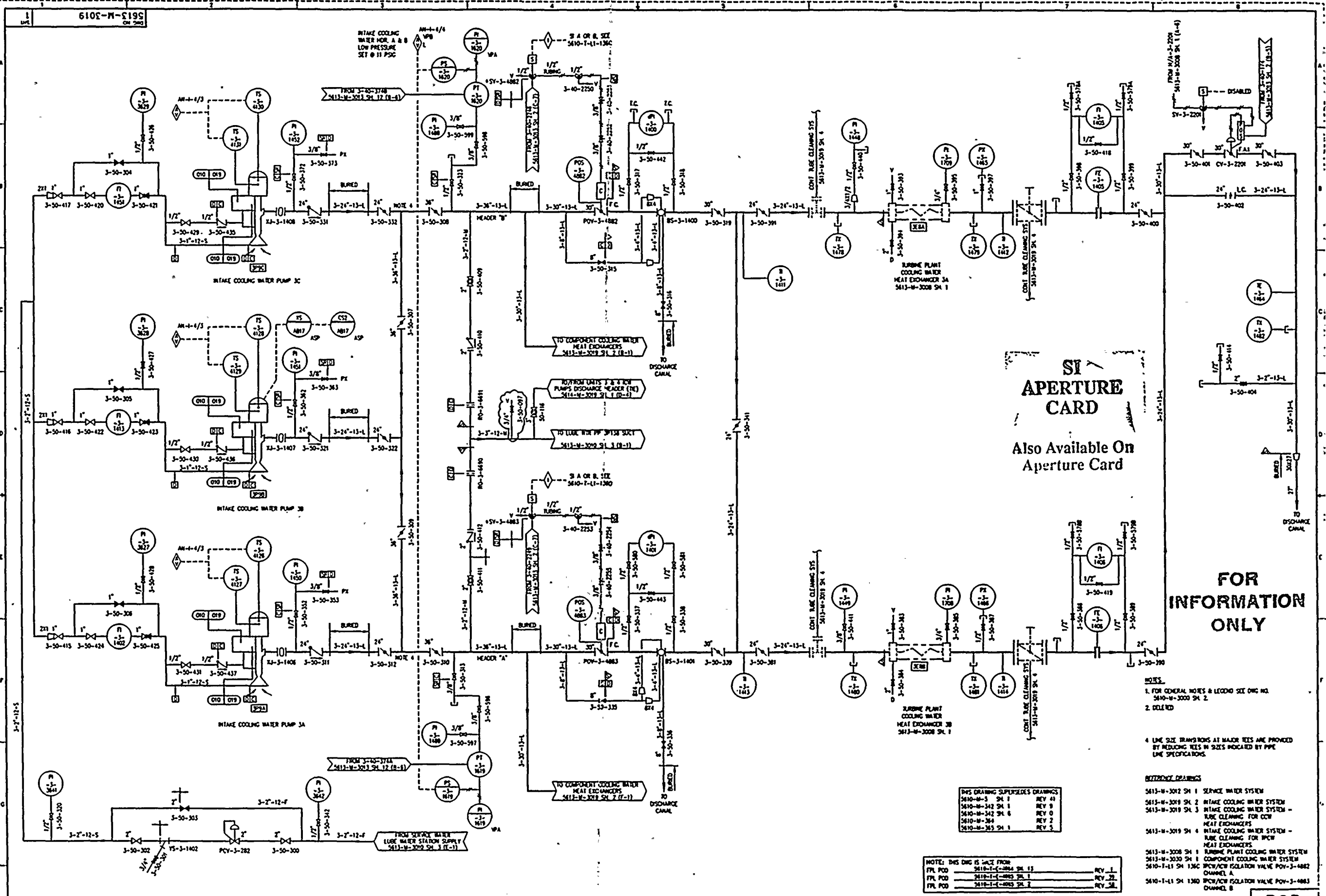
7	04-01-93	ISSUED AS-BUILT FOR PC/M 93-002	SP	DR	RFR	WFM	2	7-8-92	THIS DRAWING SUPERSEDES DWG 5610-M-1311 FOR DCR-TPM-91-426	SP	DR	RFR	WFM
6	03-06-93	ISSUED AS-BUILT FOR DCR-TPM-93-073	DO	INT'L	S	ON FILE	1	03-06-93	ISSUED AS-BUILT FOR DCR'S TPM-92-014, TPM-92-029 AND TPM-91-426	DO	INT'L	S	ON FILE
5	2-10-93	ISSUED AS-BUILT FOR PC/M 91-523, 89-542 & CAD ERROR	SM	INT'L	S	ON FILE	8	9-20-93	ISSUED AS-BUILT FOR DCR-TPM-93-309	SM	INT'L	S	ON FILE
4	12-23-92	ISSUED AS-BUILT FOR PC/M 89-542 AND DCR-TPM-92-215	SM	INT'L	S	ON FILE	0	11-22-91	THIS DWG CREATED FOR THE P & ID RECONSTITUTION PROJECT SCOPE	SM	INT'L	S	ON FILE
3	9-10-92	ISSUED AS-BUILT FOR DCR-TPM-92-180	SM	INT'L	S	ON FILE	0	11-22-91	THIS DWG CREATED FOR THE P & ID RECONSTITUTION PROJECT SCOPE	SM	INT'L	S	ON FILE
REV	DATE	REVISION	BY	CHK	APP	TPL	REV	DATE	REVISION	BY	CHK	APP	TPL



TURKEY POINT NUCLEAR UNIT 3
CONDENSATE STORAGE SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3018
SYS
018
REV
8

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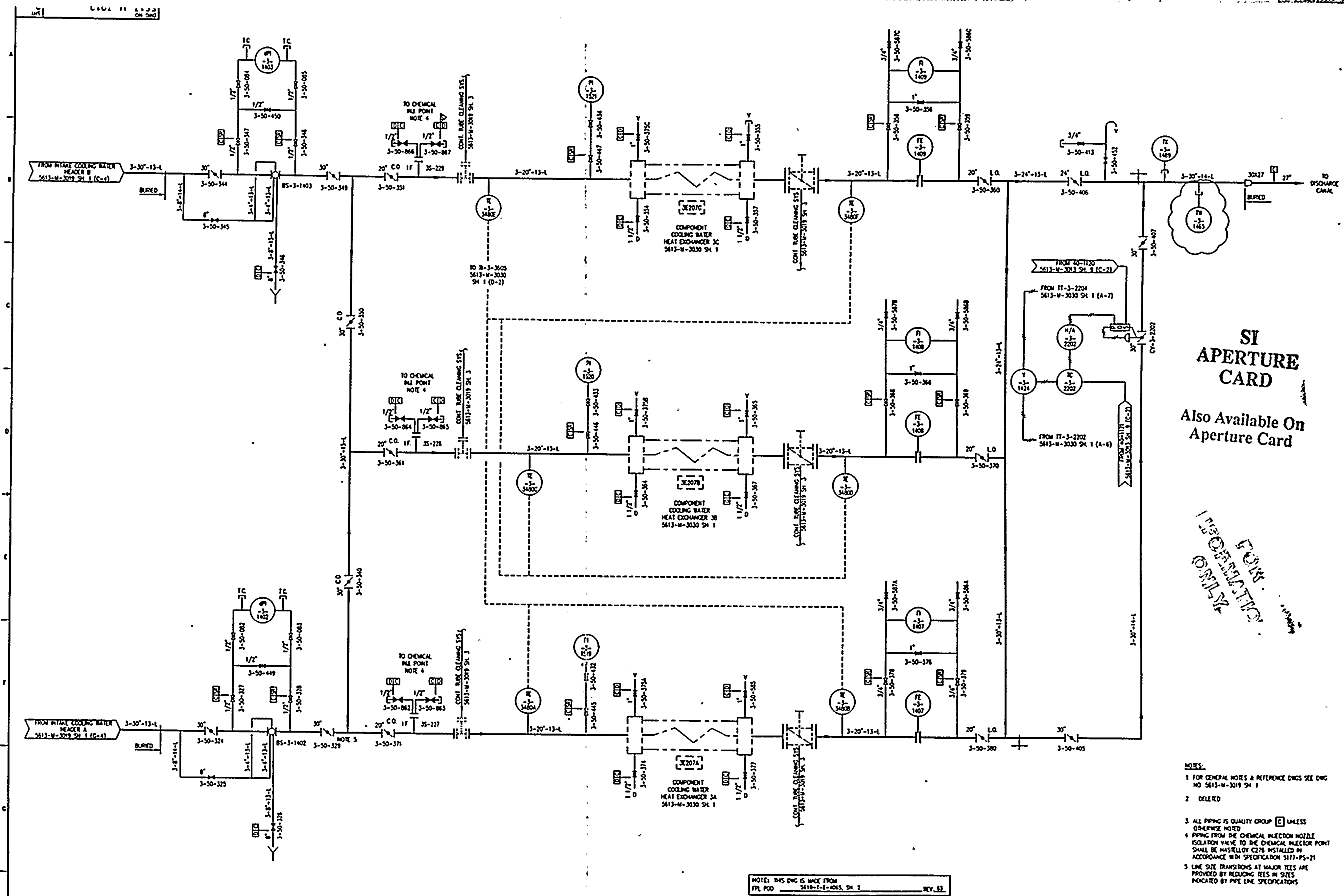
6	12-23-92	ISSUED AS-BUILT FOR PC/M 89-542 AND CRN-M-5567.	OTH	INITIALS ON FILE	9	04-01-93	ISSUED AS-BUILT FOR PC/M 92-021, 93-022, 93-023, 93-046, DCR-IPM-93-	RKS	AB	LR	JH
5	9-3-92	ISSUED AS-BUILT FOR DCR-IPM-92-180	FMH	LIB	TA						
4	7-9-92	ISSUED AS-BUILT FOR DCR-IPM-92-206 AND DCR-IPM-92-0220.	RNK	LIB	TA	8	03-05-93	ISSUED AS-BUILT FOR DCR-IPM-93-075	SP	INITIALS ON	LES
3	4/23/92	ISSUED AS-BUILT FOR DCR-IPM-92-068	MOH	LIB	FMH	7	2-10-93	ISSUED AS-BUILT FOR PC/M'S 92-090 & 89-542	SP	INITIALS ON	LES
11	7-11-93	ISSUED AS-BUILT FOR PC/M 89-544 & INCORPORATED CRN-M-5885	R/L	LIB	FMH	6	1-29-93	DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE	MAB	NO	LIB
10	04-19-93	INCORP CRN-M-5796 FOR PC/M 93-046	JH	CH	LR	5		AND ISSUED INTO THE FPL DNG SYSTEM FOR DCR-IPM-90-541	BY	CH	LR

	TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
	INTAKE COOLING WATER SYSTEM		DRAWING NUMBER 5613-M-3019	
	SHEET 1		SYS 019 REV 11	

9401260331-10

REV. 8/1/87

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ATTORNEY GENERAL
STATE OF NEW YORK



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- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO 5613-M-3019 SH 1
 2. DELETED
 3. ALL PIPING IS QUALITY GROUP ☐ UNLESS OTHERWISE NOTED
 4. PIPING FROM THE CHEMICAL INJECTION NOZZLE ISOLATION VALVE TO THE CHEMICAL INJECTION POINT SHALL BE HASTELLOY C276 INSTALLED IN ACCORDANCE WITH SPECIFICATION 5117-PS-21
 5. LINE SIZE TRANSITIONS AT MAJOR TEES ARE PROVIDED BY REDUCING TEES IN SIZES INDICATED BY PIPE LINE SPECIFICATIONS

NOTE: THIS DWG IS MADE FROM
FPL PDD 5618-T-1-0045, SH 2 REV 53

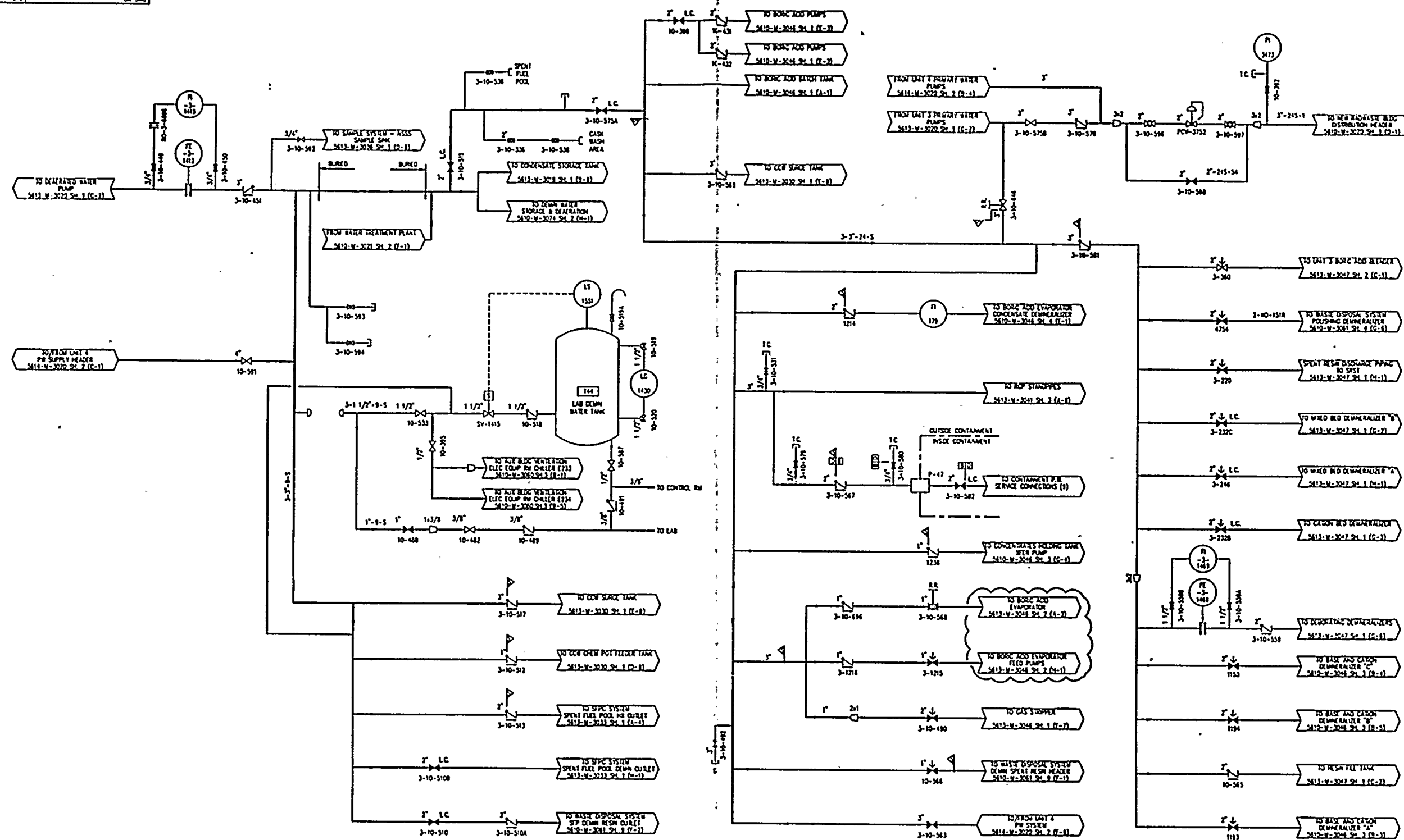
REV	DATE	REVISION	BY	CHK	APP	REV	DATE	REVISION	BY	CHK	APP
9	9/2/93	ISSUED AS-BUILT FOR PC/M 92-116	SM	MD	LK	MD	12-23-92	ISSUED AS-BUILT FOR PC/M 89-542 AND DCR-BPM-92-215	SM	MD	LK
8	09-20-93	ISSUED AS-BUILT FOR PC/M 93-084	SM	MD	LK	MD	11-5-92	ISSUED AS-BUILT FOR DCR-BPM-92-0311	SM	MD	LK
7	04-01-93	ISSUED AS-BUILT FOR PC/M 93-046	RES	AB	LK	MD	9-3-92	ISSUED AS-BUILT FOR DCR-BPM-92-100	SM	MD	LK
6	04-06-93	ISSUED AS-BUILT FOR DCR-BPM-93-075	LSH	MD	LK	MD	6-1-92	ISSUED AS-BUILT FOR PC/M 89-452	SM	MD	LK
5	2-7-93	ISSUED AS-BUILT FOR PC/M 92-090	5"	MD	LK	MD	1/29/91	THIS DWG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-BPM-90-541	MAB	MD	LK



TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP FT. LAUDERDALE, FLORIDA	
P & ID		DRAWING NUMBER	
INTAKE COOLING WATER SYSTEM		5613-M-3019	
SHEET 2		REV 9	

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ONLY

NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5613-M-3020 SH. 1.
2. DELETED.

NOTE: THIS DWG IS MADE FROM FPL POD 5613-M-3020 SH. 1

REV	DATE	DESCRIPTION	BY	CHK	APP	REV	DATE	DESCRIPTION	BY	CHK	APP
1	12-22-82	ISSUED AS-BUILT FOR PC/M 81-542 AND DCR-PM-82-213	SM	JK	JK	1	12-22-82	ISSUED AS-BUILT FOR PC/M 81-542 AND DCR-PM-82-213	SM	JK	JK
2	11-18-82	ISSUED AS-BUILT FOR PC/M 81-510, INCOMP. CHN-M-3046	SM	JK	JK	2	11-18-82	ISSUED AS-BUILT FOR PC/M 81-510, INCOMP. CHN-M-3046	SM	JK	JK
3	8-3-82	ISSUED AS-BUILT FOR DCR-PM-82-027	SM	JK	JK	3	8-3-82	ISSUED AS-BUILT FOR DCR-PM-82-027	SM	JK	JK
4	3-4-82	ISSUED AS-BUILT FOR DCR-PM-81-475 & DCR-PM-81-512	SM	JK	JK	4	3-4-82	ISSUED AS-BUILT FOR DCR-PM-81-475 & DCR-PM-81-512	SM	JK	JK
5	11-4-81	THIS DWG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM FOR DCR-PM-81-475	SM	JK	JK	5	11-4-81	THIS DWG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM FOR DCR-PM-81-475	SM	JK	JK



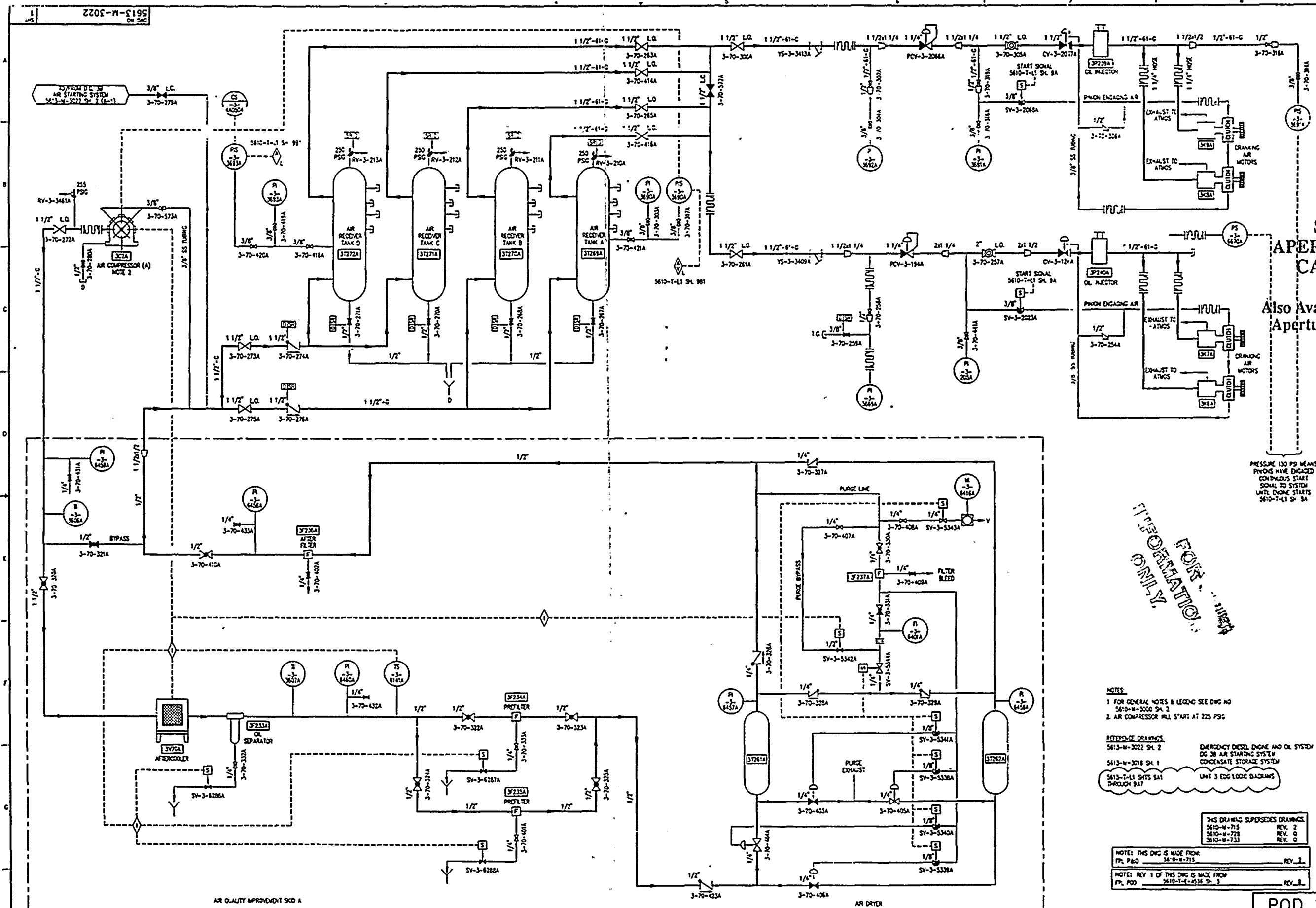
TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
PRIMARY MAKEUP WATER SYSTEM		DRAWING NUMBER 5613-M-3020	
		SHEET 2	

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NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO 5610-M-3000 SH. 2
2. AIR COMPRESSOR WILL START AT 225 PSIG

REFERENCE DRAWINGS:
5613-M-3022 SH. 2
5613-M-3018 SH. 1
5613-T-11 SH. 1 THROUGH 947

EMERGENCY DIESEL ENGINE AND OIL SYSTEM
DG 3A AIR STARTING SYSTEM
CONDENSATE STORAGE SYSTEM
UNIT 3 EDC LOGIC DIAGRAMS

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-715 REV. 2
5610-M-728 REV. 0
5610-M-733 REV. 0

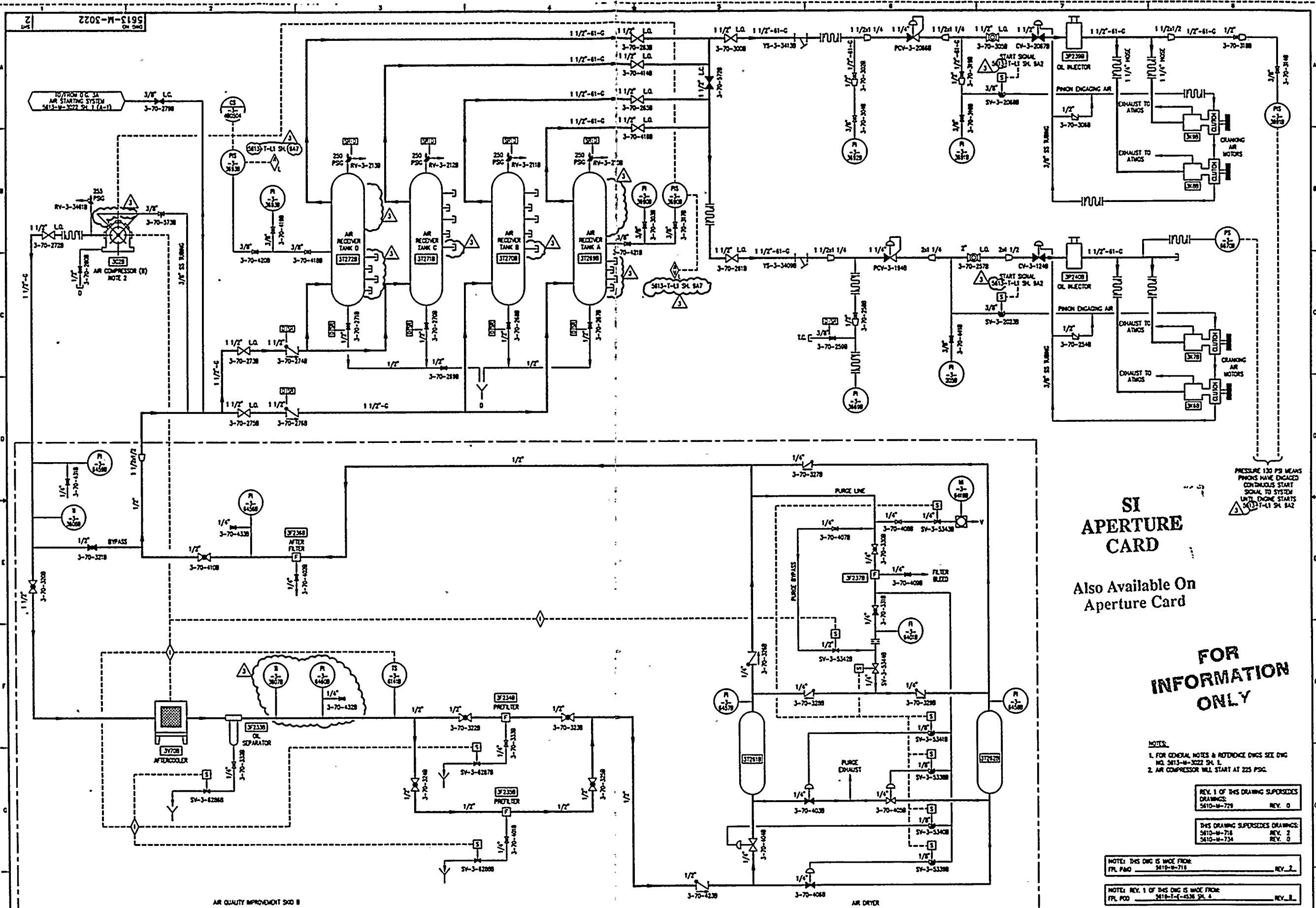
NOTE: THIS DWG IS MADE FROM:
FPL P&ID 5610-M-715 REV. 1

NOTE: REV 1 OF THIS DWG IS MADE FROM:
FPL P&ID 5610-T-11 SH. 3 REV. 1

REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP
5	9-20-93	ISSUED AS-BUILT FOR DCR-TPM-93-309 AND DCR-TPM-93-345.	SWM	MO	LR	JRM	1	7-9-92	REV 1 IS A REDRAW OF REV 0 WITH EXTENSIVE CHANGES IN ACCORDANCE WITH P & ID RECONSTRUCTION PROJECT SCOPE PER DCR-TPM-92-025. REVISION CLOUDS NOT SHOWN.				
4	3-5-93	ISSUED AS-BUILT FOR DCR-TPM-93-073.	MAY	LG	LR	JRM	0	11-28-91	THIS DWG REDRAWN ON CAD FROM 5610-M-715				
3	2-7-93	ISSUED AS-BUILT FOR DCR-TPM-92-159							DWG SUPERSEDES 5610-M-715, 5610-M-728, 5610-M-733 AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-TPM-91-532				
2	12-21-92	ISSUED AS-BUILT FOR PC/M 89-542.	TAM	MO	LR	JRM							

TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP FT. LAUDERDALE, FLORIDA	
P&ID		DRAWING NUMBER	
EMERGENCY DIESEL ENGINE AND OIL SYSTEM DG 3A AIR STARTING SYSTEM		5613-M-3022	
SHEET 1		REV 5	

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- NOTES:
1. FOR GENERAL NOTES & REFERENCES DWS SEE DWS NO. 5613-M-3022 SH. 1.
 2. AIR COMPRESSOR WILL START AT 225 PSIG.

REV. 1 OF THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-728 REV. 0

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-718 REV. 2
5610-M-734 REV. 0

NOTE: THIS DWS IS MADE FROM
FPL P&ID 5610-M-718 REV. 2

NOTE: REV. 1 OF THIS DWS IS MADE FROM
FPL P&ID 5610-M-718 REV. 2

REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP
1	7-9-82	REV 1 IS A REDRAW OF REV 0 WITH EXTENSIVE CHANGES IN ACCORDANCE WITH P & ID RECONSTRUCTION PROJECT SCOPE PER DCR-IPM-92-021. THIS REV SUPERSEDES 5610-M-728. REVISION CLOUDS NOT SHOWN.					1	11-28-91	THIS DWS REDRAWN ON CAD FROM 5610-M-718.				
2	12-21-92	ISSUED AS-BUILT FOR PC/M 89-542.					2		DWS SUPERSEDES 5610-M-718, 5610-M-734 AND ISSUED INTO THE FPL DWS SYSTEM PER DCR-IPM-91-332.				

TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
P&ID		DRAWING NUMBER	
EMERGENCY DIESEL ENGINE AND OIL SYSTEM DG 3B AIR STARTING SYSTEM		5613-M-3022	
SHEET 2		SYS 022 REV 3	

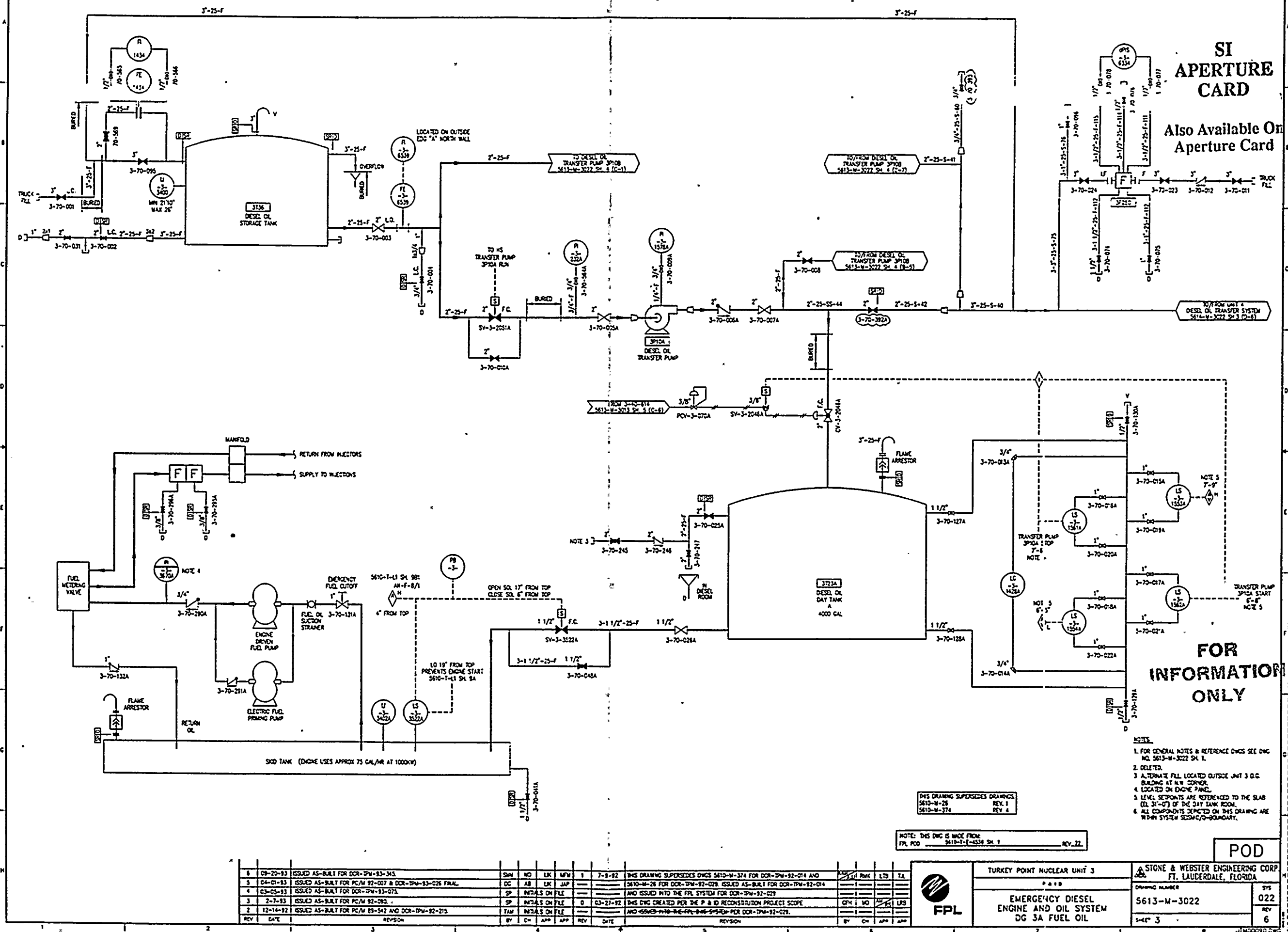
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- 3. ALTERNATE FILL LOCATED OUTSIDE UNIT 306 BUILDING AT NW CORNER.
- 4. LOCATED ON ENGINE PANEL.
- 5. LEVEL SETPOINTS ARE REFERENCED TO THE SLAB (EL. 31'-0") OF THE DAY TANK ROOM.
- 6. ALL COMPONENTS DEPICTED ON THIS DRAWING ARE WITHIN SYSTEM SENSIC/O-BOUNDARY.

THIS DRAWING SUPERSEDES DRAWINGS
5610-M-26 REV 1

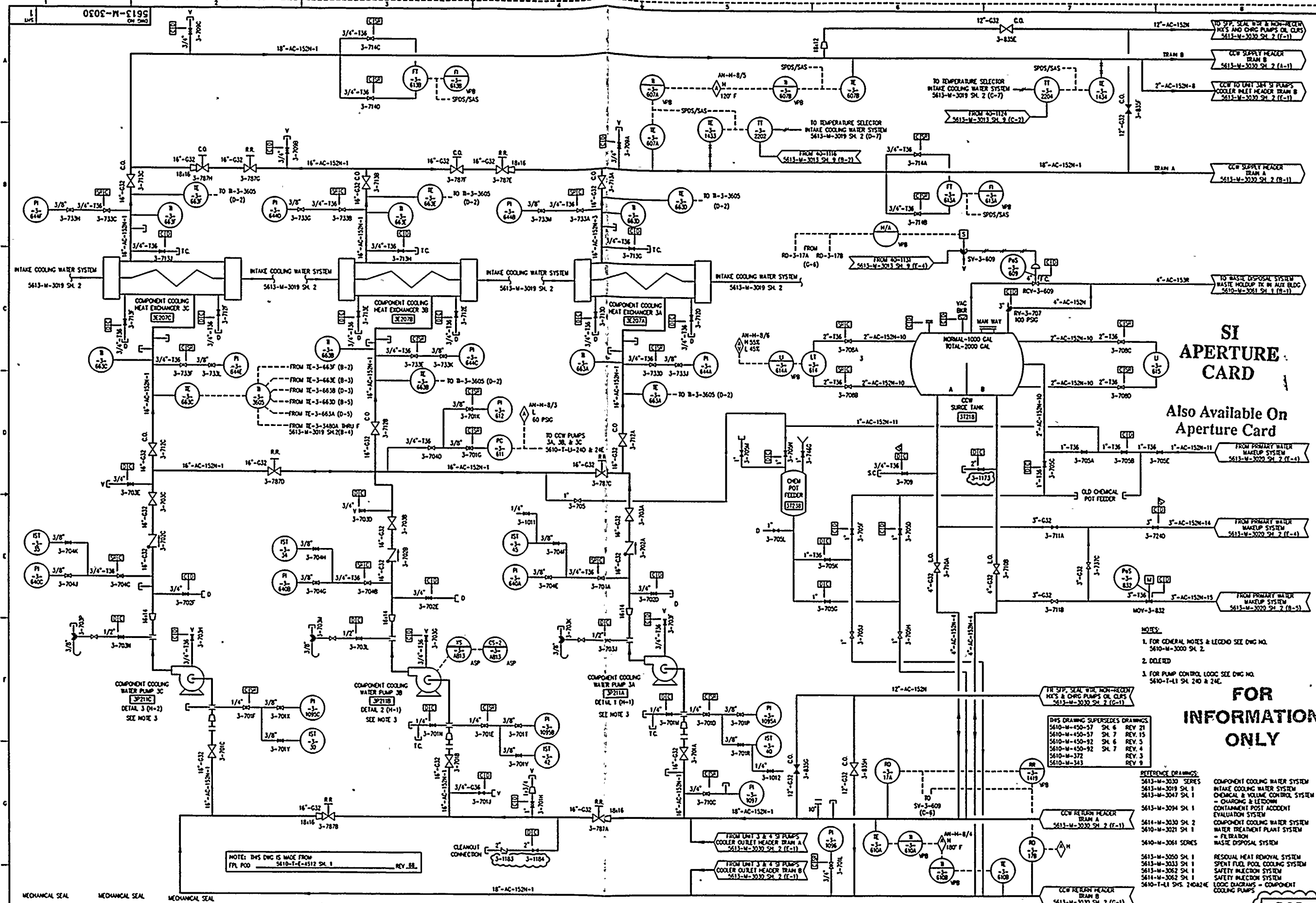


 STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
DRAWING NUMBER 5613-M-3022	SYS 022
SHEET: 4	REV 5

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CCW PUMP 3A DETAIL 1 (F-3)			CCW PUMP 3B DETAIL 2 (F-3)			CCW PUMP 3C DETAIL 3 (F-2)											
6	02-16-93	ISSUED AS-BUILT FOR DCR-IPM-93-055	CIM	RKS	LK	JRN	2	3-6-93	ISSUED AS-BUILT FOR DCR-IPM-93-075	DO	INRALS ON FILE						
5	2-10-93	ISSUED AS-BUILT FOR DCR-IPM-92-0400 AND PC/M 92-090 AND DCR-IPM-91-600	TAM				3	11-18-92	ISSUED AS-BUILT FOR PC/M 87-321; INCCOR CRM-M-5584								
4	12-17-92	ISSUED AS-BUILT FOR PC/M 89-542 AND CRM-M-5567 WITH EXTENSIVE CHANGES TO BOUNDARY FLAGS - NO FLAG REVISION CLOUDS USED	SAM	MO	LRB	HAR	4	9-10-93	ISSUED AS-BUILT FOR DCR-IPM-93-335								
3		ISSUED AS-BUILT FOR DCR-IPM-92-215					5										
REV	DATE	REVISION	BY	CH	APP	APP	REV	DATE	REVISION	BY	CH	APP	APP				

FPL

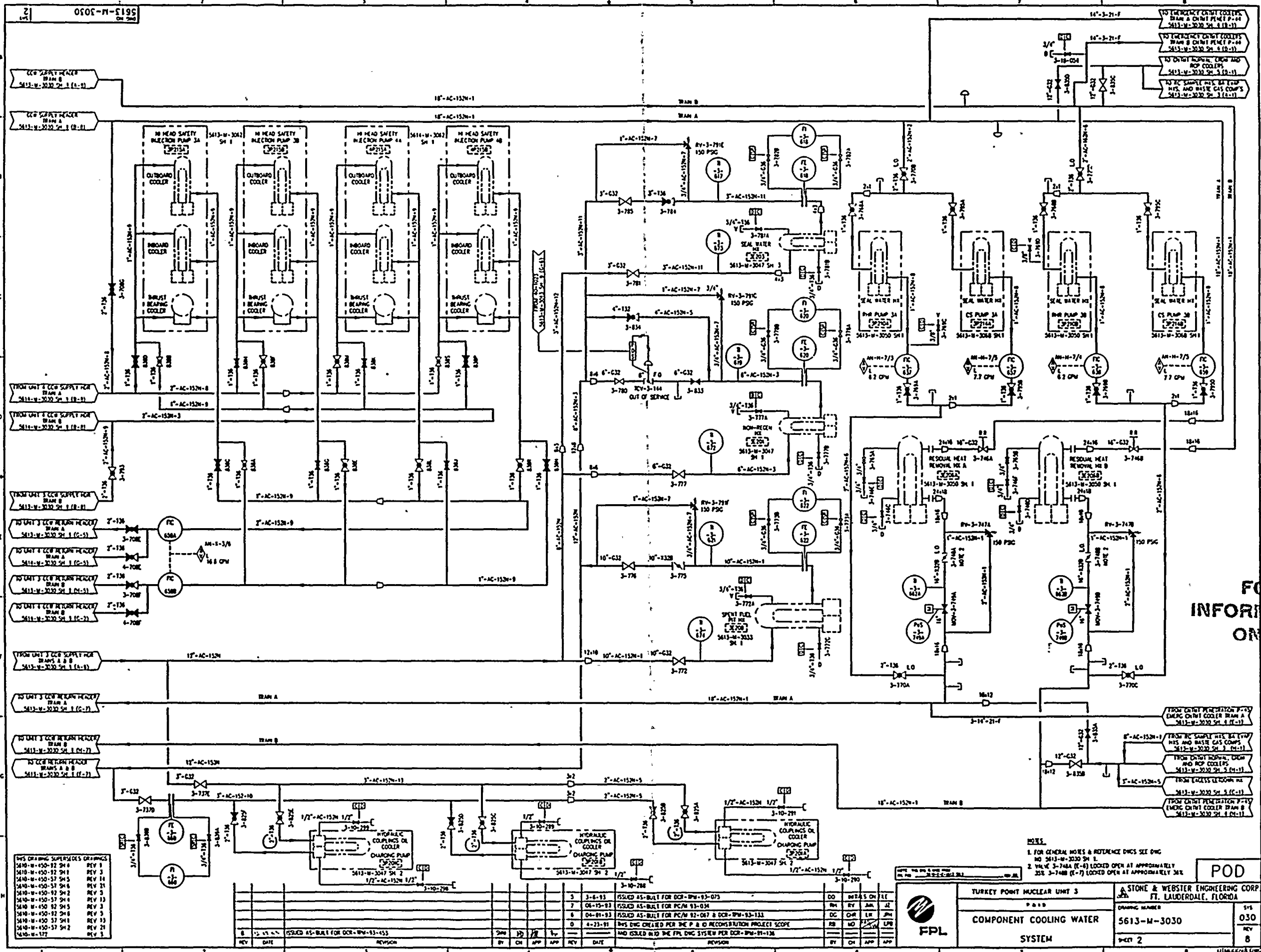
TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
P&ID		DRAWING NUMBER	SYS
COMPONENT COOLING WATER		5613-M-3030	030
SYSTEM		SHEET 1	REV 8

POD

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NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO 5613-M-3030 SH 1.
2. VALVE 3-748A (E-7) LOCKED OPEN AT APPROXIMATELY 25% 3-748B (E-7) LOCKED OPEN AT APPROXIMATELY 50%.

POD



TURKEY POINT NUCLEAR UNIT 3		A. STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
P. 0. 0.		DRAWING NUMBER	
COMPONENT COOLING WATER		5613-M-3030	
SYSTEM		SHEET 2	
		REV 8	

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NOTES:
1. FOR GENERAL NOTES & REFERENCE DWS SEE
DWS NO. 5613-M-3030 SH. 1

DWS DRAWING SUPERSEDES DRAWINGS
5610-M-450-82 SH. 2 REV. 5
5610-M-1299 REV. 0
5610-M-372 REV. 3
5610-M-450-57 SH. 2 REV. 2

NOTES: DWS DWS IS MADE FROM
FPL PCD 5610-T-4511 SH. 1

REV. 01

POD



TURKEY POINT NUCLEAR UNIT 3
P. 110

COMPONENT COOLING WATER
SYSTEM

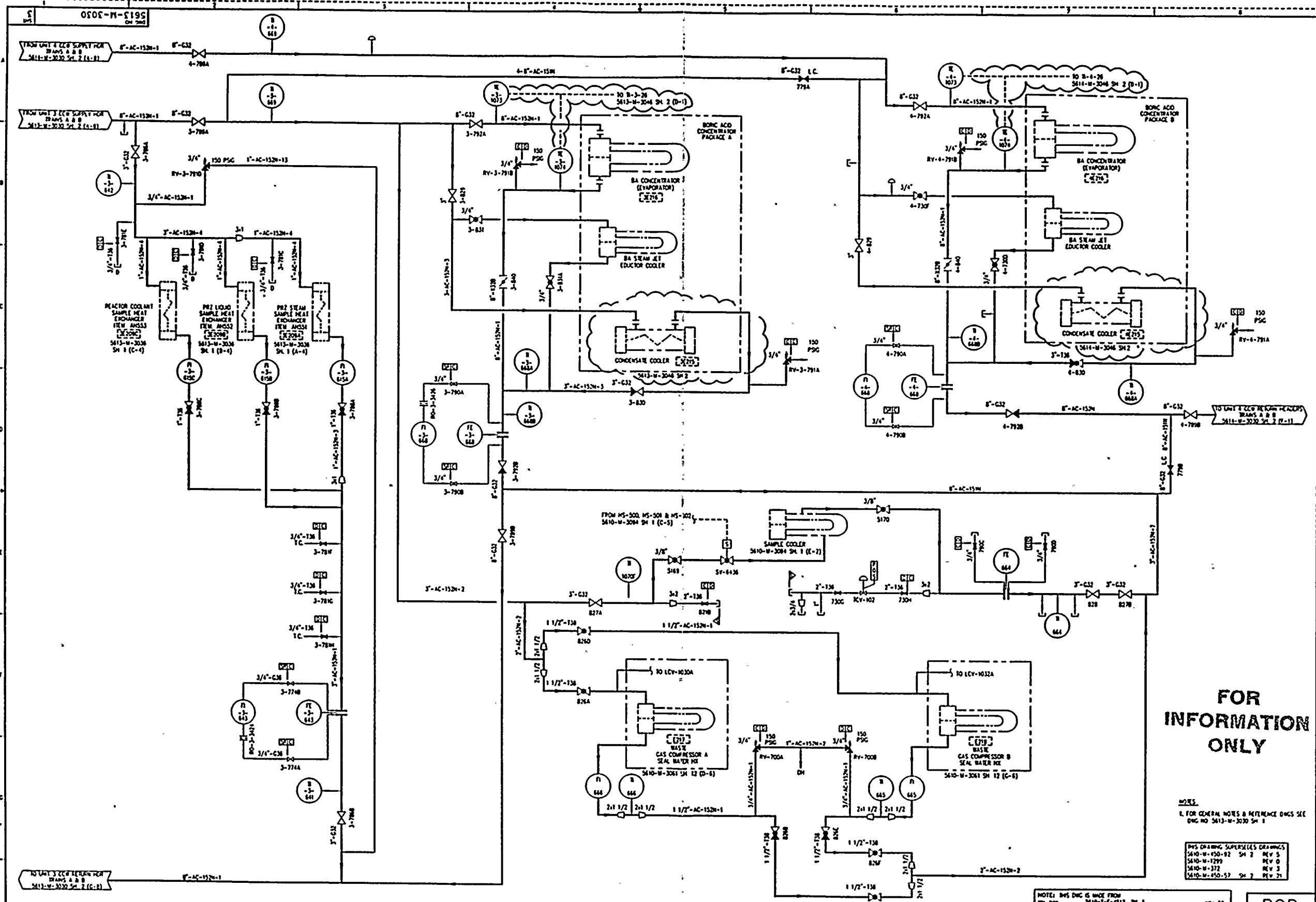
A. STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5613-M-3030

SHEET 3

REV. 7

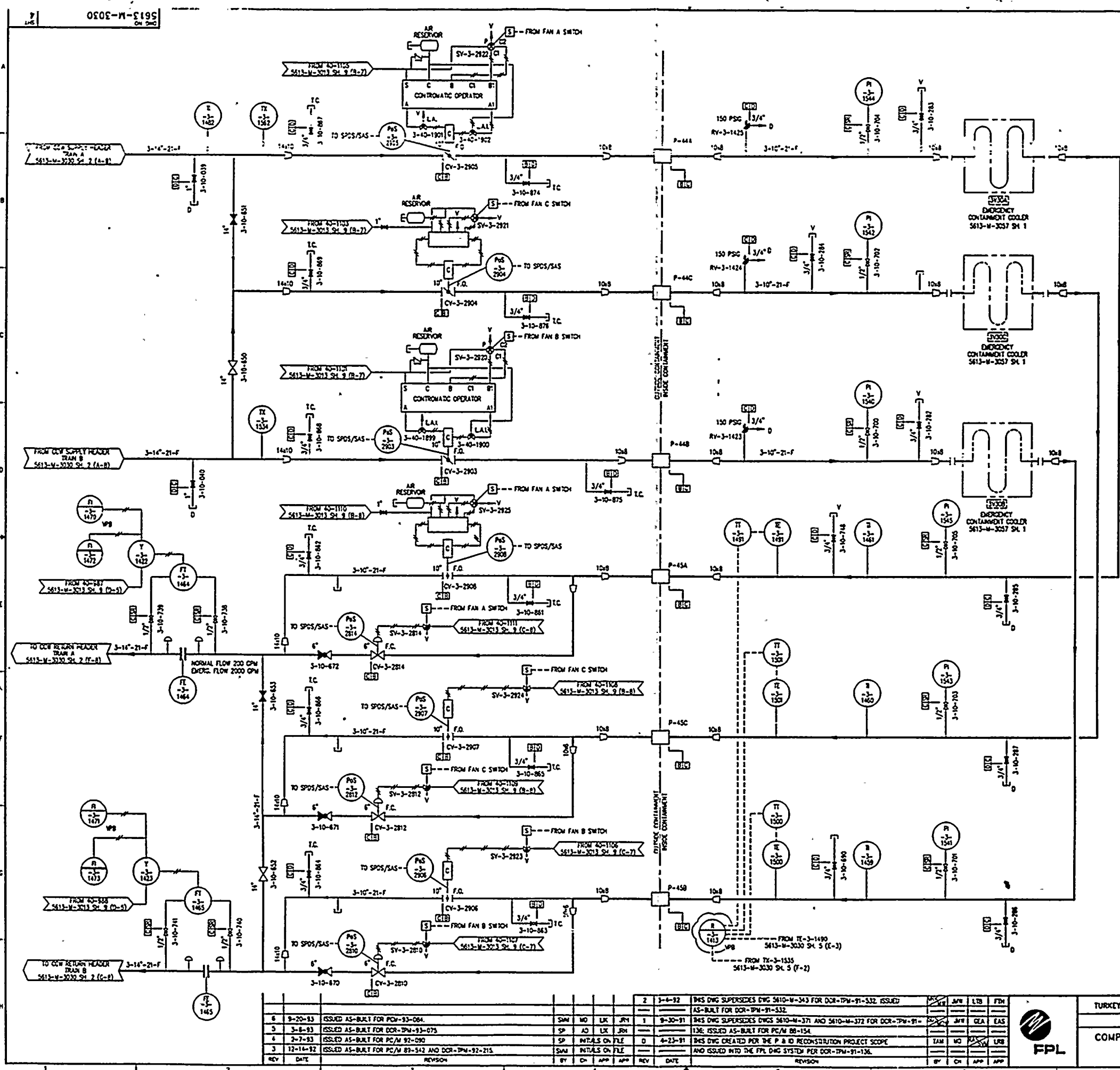
REV	DATE	REVISION	BY	CHK	APP	REV	DATE	REVISION	BY	CHK	APP
1	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		2	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
2	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		3	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
3	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		4	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
4	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		5	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
5	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		6	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
6	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		7	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
7	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		8	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
8	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		9	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	
9	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK		10	4-18-82	ISSUED AS-BUILT FOR DCR-IPW-92-013	JW	OK	



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EMERGENCY CONTAINMENT COOLERS VALVE POSITION			
FAN SWITCH POSITION	INLET VALVE	OUTLET VALVE	OUTLET BYPASS VALVE
AUTO (FAN NOT RUNNING)	OPEN	CLOSED	OPEN
AUTO FAN STARTS	OPEN	OPEN	OPEN
HELD IN START (RUNNING)	OPEN	OPEN	CLOSED
STOP	CLOSED	CLOSED	CLOSED

IF AUTO SEQUENCER STARTS FAN-B CONTACT ON MOTORS OPENS RESPECTIVE MAIN OUTLET VALVES. NOTE: IF FAN SWITCH IS IN STOP POSITION AND THE SEQUENCER STARTS FAN, OUTLET OPENS BUT INLET AND OUTLET BYPASS WILL NOT OPEN.

- 1.2.2.5.
- FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5613-M-3030 SH. 1.
 - DELETED.
 - ALL PIPING INSIDE CONTAINMENT SHOWN ON THIS DWG IS SAFETY RELATED AND WITHIN THE 50% C/D BOUNDARIES.

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-371 REV. 2
5610-M-372 REV. 3
5610-M-343 REV. 8

(415)														2	3-6-92	THIS DWG SUPERSEDES DWG 5610-M-343 FOR DCR-TPM-91-532. ISSUED AS-BUILT FOR DCR-TPM-91-532.	SM	JPM	LTS	FTM
																AS-BUILT FOR DCR-TPM-91-532.				
6	9-20-83	ISSUED AS-BUILT FOR PCV-93-084.	SM	MO	LK	JPM	1	9-30-91	THIS DWG SUPERSEDES DWGS 5610-M-371 AND 5610-M-372 FOR DCR-TPM-91-136. ISSUED AS-BUILT FOR PCV/M 88-154.	SM	JPM	GLA	EAS							
5	3-8-83	ISSUED AS-BUILT FOR DCR-TPM-93-075	SP	AD	LK	JPM	2													
4	2-7-83	ISSUED AS-BUILT FOR PCV/M 92-090	SP	INITIALS ON FILE			0	4-23-91	THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-TPM-91-136.	LAM	MO	FTM	URB							
3	12-14-82	ISSUED AS-BUILT FOR PCV/M 87-542 AND DCR-TPM-92-215.	SM	INITIALS ON FILE																
REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP							



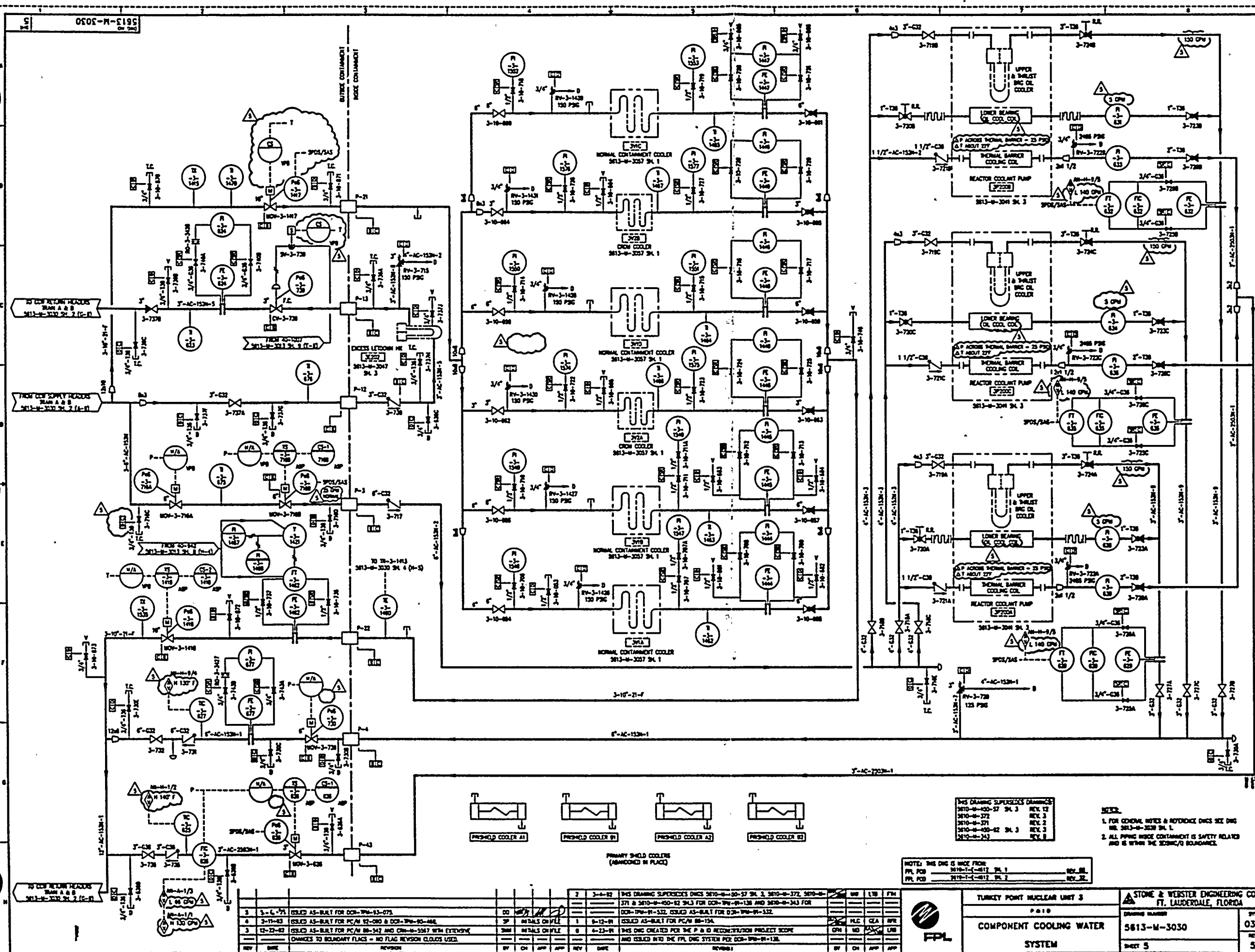
TURKEY POINT NUCLEAR UNIT 3
COMPONENT COOLING WATER
SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3030
SHEET 4

POD

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THIS DRAWING SUPERSEDES DRAWINGS:
5610-4-450-27 SH. 3 REV. 12
5610-4-372 REV. 3
5610-4-371 REV. 2
5610-4-450-22 SH. 3 REV. 2
5610-4-343 REV. 2

- NOTES:
1. FOR GENERAL NOTES & REFERENCE DIES SEE DIE NO. 5613-4-2539 SH. 1.
 2. ALL PIPING INSIDE CONTAINMENT IS SAFETY RELATED AND IS WITHIN THE SCRAM/3I BOUNDARIES.

NOTE: THIS DIE IS MADE FROM:
FPL FOR 5610-1-4-611 SH. 1 REV. 10
FPL FOR 5610-1-4-611 SH. 2 REV. 22

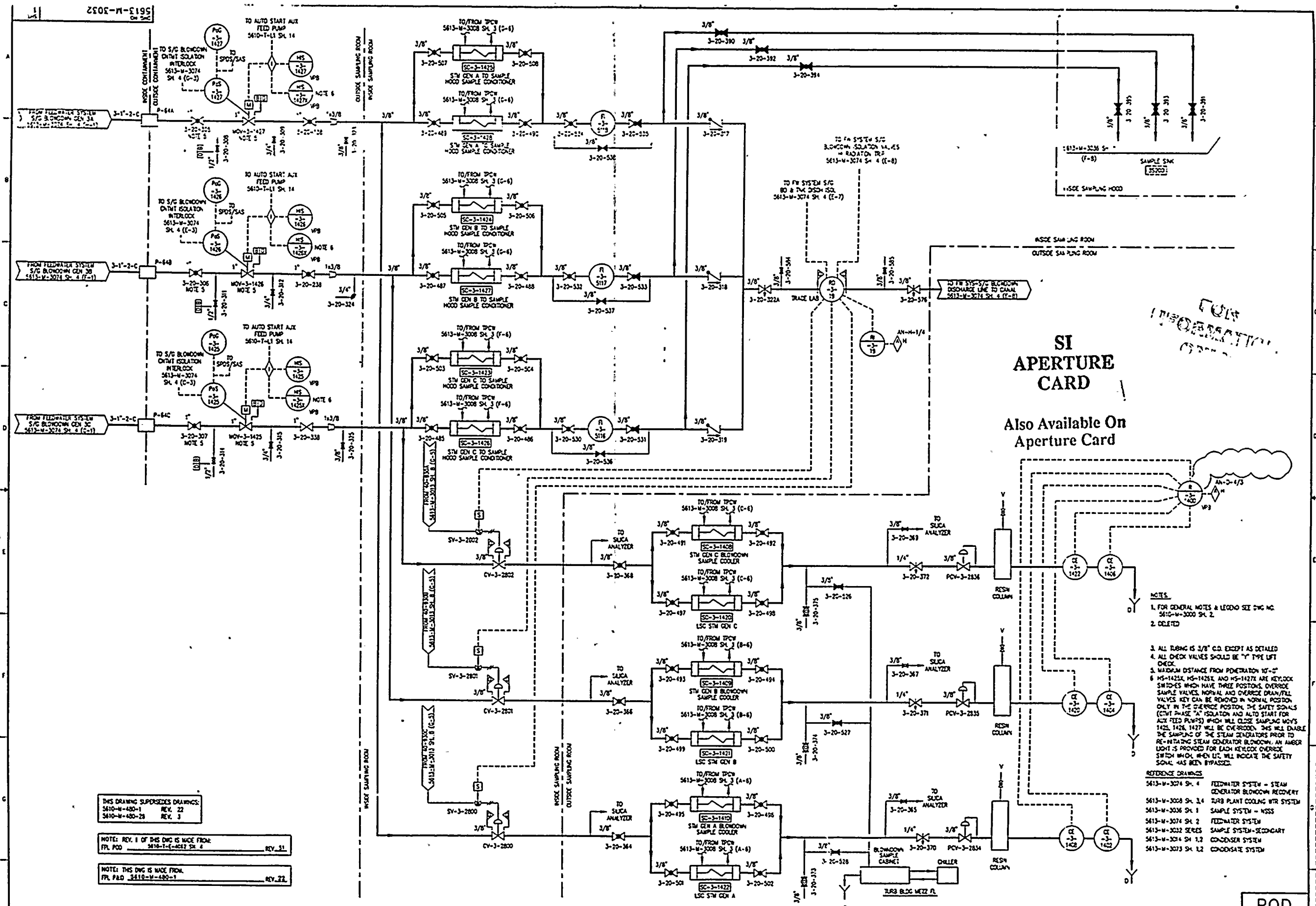
REV	DATE	DESCRIPTION	BY	CHK	APP	REV	DATE	DESCRIPTION	BY	CHK	APP
1	3-4-74	ISSUED AS-BUILT FOR DCR-794-91-573.	...	...	...	2	3-4-74	THIS DRAWING SUPERSEDES DIES 5610-4-450-27 SH. 3, 5610-4-372, 5610-4-371 & 5610-4-450-22 SH. 3 FOR DCR-794-91-138 AND 5610-4-343 FOR DCR-794-91-532. ISSUED AS-BUILT FOR DCR-794-91-532.	...	...	...
2	3-11-74	ISSUED AS-BUILT FOR PC/M 81-530 & DCR-794-91-448.	...	...	...	3	6-13-74	THIS DIE CREATED FOR THE P & D RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DIE SYSTEM FOR DCR-794-91-138.	...	...	...
3	12-23-82	ISSUED AS-BUILT FOR PC/M 88-543 AND CRN-81-5547 WITH EXTENSIVE CHANGES TO BOUNDARY PLACES - NO FLAG REVISION CLOUDS USED.	...	...	...	4	6-13-74	THIS DIE CREATED FOR THE P & D RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DIE SYSTEM FOR DCR-794-91-138.	...	...	...

TURKEY POINT NUCLEAR UNIT 2		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
P. 10		DRAWING NUMBER	
COMPONENT COOLING WATER		5613-M-3030	
SYSTEM		SHEET 5	

1949-50-51

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THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-480-1 REV. 22
5610-M-480-28 REV. 3

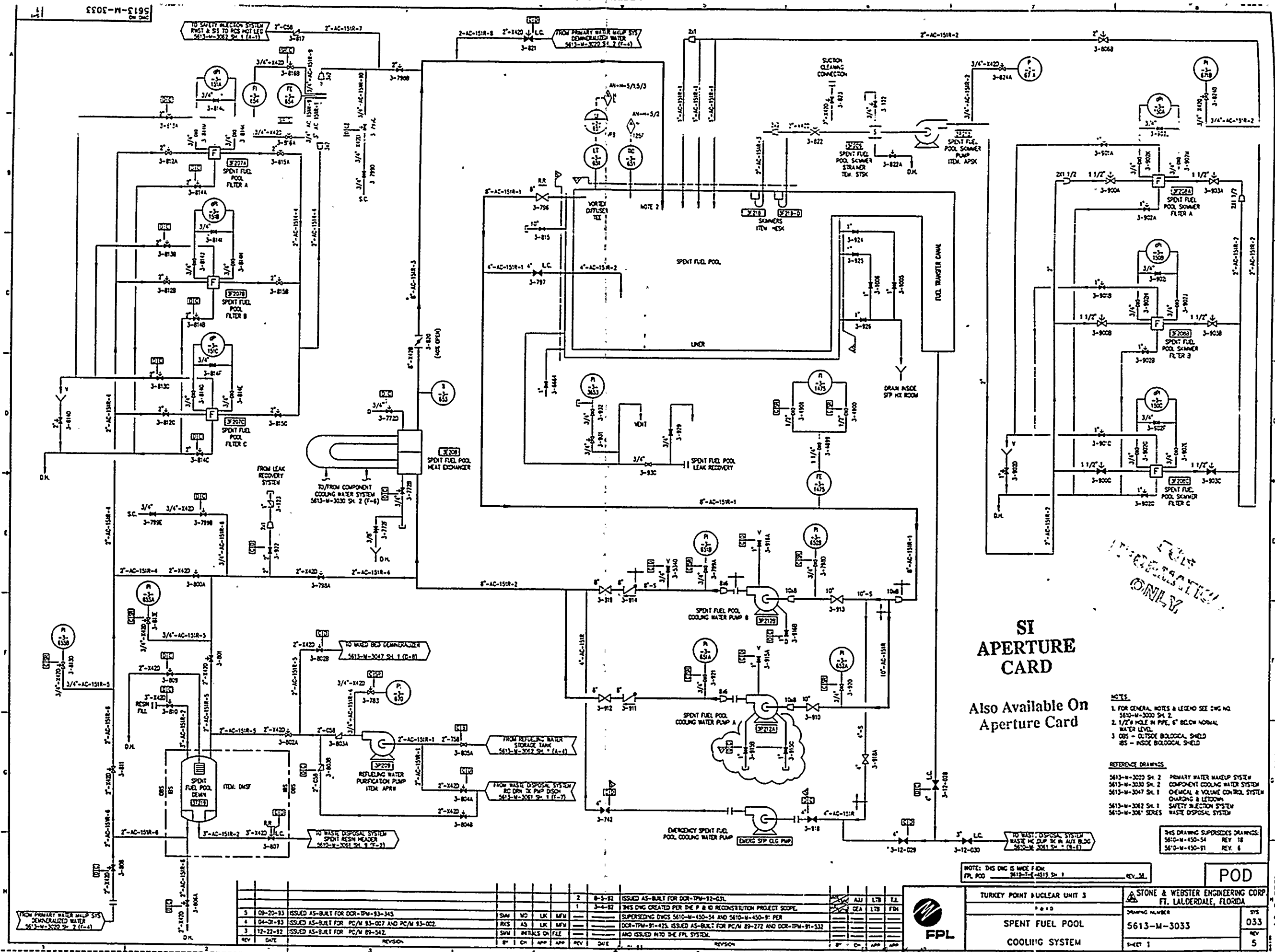
NOTE: REV. 1 OF THIS DWG IS MADE FROM:
FPL P&ID 5610-M-480-1 REV. 31

NOTE: THIS DWG IS MADE FROM:
FPL P&ID 5610-M-480-1 REV. 22

REV	DATE	REVISION	BY	CHK	APP	APP	REV	DATE	REVISION	BY	CHK	APP	APP
1	12-23-92	ISSUED AS-BUILT FOR PC/M 89-542 DCR-TPW-92-256, AND DCR-TPW-92-215. SHAW					1	2-18-92	ALL REV 1 CHANGES IN ACCORDANCE WITH P & ID RECONSTRUCTION PROJECT				
2	11-26-91	THIS DWG LAYOUT ON CAD FROM 5613-M-480-1					2	11-26-91	DWG SUPERSEDES 5613-M-480-1, 5610-M-480-28, AND ISSUED				
3	04-01-93	ISSUED AS-BUILT FOR PC/M 93-007 & DCR-TPW-93-133 FINAL					3	02-10-93	ISSUED AS-BUILT FOR PC/M 92-092 & DCR-TPW-91-620				

TURKEY POINT NUCLEAR UNIT 3		STONE & WEBSTER ENGINEERING CORP. FT. LAUDERDALE, FLORIDA	
SAMPLE SYSTEM - SECONDARY STEAM GENERATOR BLOWDOWN		DRAWING NUMBER 5613-M-3032	SYS 032
		SHEET 1	REV 5

2084091646



940.1260331-23

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. 30. 31. 32. 33. 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. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

REFERENCE DRAWINGS

- 5613-W-3020 SH. 2 PRIMARY WATER WAKEUP SYSTEM
- 5613-W-3041 SH. L2 REACTOR COOLANT SYSTEM
- 5613-W-3047 SH. L2 CHEMICAL & VOLUME CONTROL SYSTEM
- 5613-W-3050 SH. 1 CHARGING & LEEDOWN
- 5613-W-3064 SH. 1 RESIDUAL HEAT REMOVAL SYSTEM
- 5613-W-3064 SH. 1 SAFETY INJECTION ACCUMULATOR SYSTEM
- 5613-W-3084 SH. 1 INSIDE CONTAINMENT
- 5610-W-3081 SERIES CONTAINMENT POST ACCIDENT EVALUATION SYSTEM
- 5613-W-3032 SH. 1 WASTE DISPOSAL SYSTEM
- 5610-W-420-4 SH. 1 SAMPLE SYSTEM - SECONDARY STREAM GENERATOR ROOM
- 5610-W-420-4 SH. 1 CHEMICAL & VOLUME CONTROL SYSTEM

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-W-3000 SH. 2
 2. ALL PIPING IS 3/4" O.D. EXCEPT AS NOTED.
 3. ALL VALVES INSTALLED WITH FLOW UNDER SEAT EXCEPT VALVE NUMBERS 3-962A, 3-962B, 3-962C, 3-964, 3-970, 3-978, 3-980.
 4. ALL CHECK VALVES SHOULD BE "Y" TYPE LIFT CHECK.
 5. DELAY COIL - 120 FT. & 3/4" O.D. PIPING @ 245 LB.
 6. V.S. = VENTILATION SYSTEM
 7. SAMPLE VESSELS ARE LOCATED IN SAMPLE HOOD
 8. S.R. = SAMPLE ROOM
 9. IN CASE OF FAILURE OF NORMAL FLOW PATH TO PASS, OPEN PASS-3-000.
 10. M.B. = INSIDE MISSILE BARREL

NOTE: REV. 1 OF THIS DWG IS MADE FROM
FPL P&ID 5610-W-480-1 REV. 21
AND 5610-W-1179 REV. 2

NOTE: THIS DWG IS MADE FROM
FPL P&ID 5610-W-480-1 REV. 21
AND 5610-W-1179 REV. 2

| REV | DATE | DESCRIPTION | BY | CHK | APP | DATE | REV | DATE | DESCRIPTION | BY | CHK | APP | DATE |
|-----|----------|---|-----|-----|-----|------|-----|----------|--|-----|-----|-----|------|
| 1 | 03-20-93 | ISSUED AS-BUILT FOR PCW-93-004 | SMW | MD | LK | JAN | 7 | 11-28-91 | ISSUED AS-BUILT FOR DCR-93-004 | SMW | MD | LK | JAN |
| 2 | 04-01-93 | ISSUED AS-BUILT FOR PCW-93-002 & DCR-93-005 | DO | CH | NR | JAN | 8 | 11-28-91 | THIS DWG IS DRAWN ON CAD FROM 5610-W-480-1 AND 5610-W-1179 | SMW | MD | LK | JAN |
| 3 | 03-08-93 | ISSUED AS-BUILT FOR DCR-93-007 | SP | CH | NR | JAN | 9 | 11-28-91 | DWG SUPERSEDES 5610-W-480-1, 5610-W-480-28 AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-93-007 | SMW | MD | LK | JAN |
| 4 | 03-08-93 | ISSUED AS-BUILT FOR PCW-93-009 | SP | CH | NR | JAN | 10 | 11-28-91 | | SMW | MD | LK | JAN |
| 5 | 12-21-92 | ISSUED AS-BUILT FOR PCW-93-011 | TAM | CH | NR | JAN | 11 | 11-28-91 | | SMW | MD | LK | JAN |



TURKEY POINT NUCLEAR UNIT 3
P&ID
SAMPLE SYSTEM - NSSS

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3036
SHEET 1

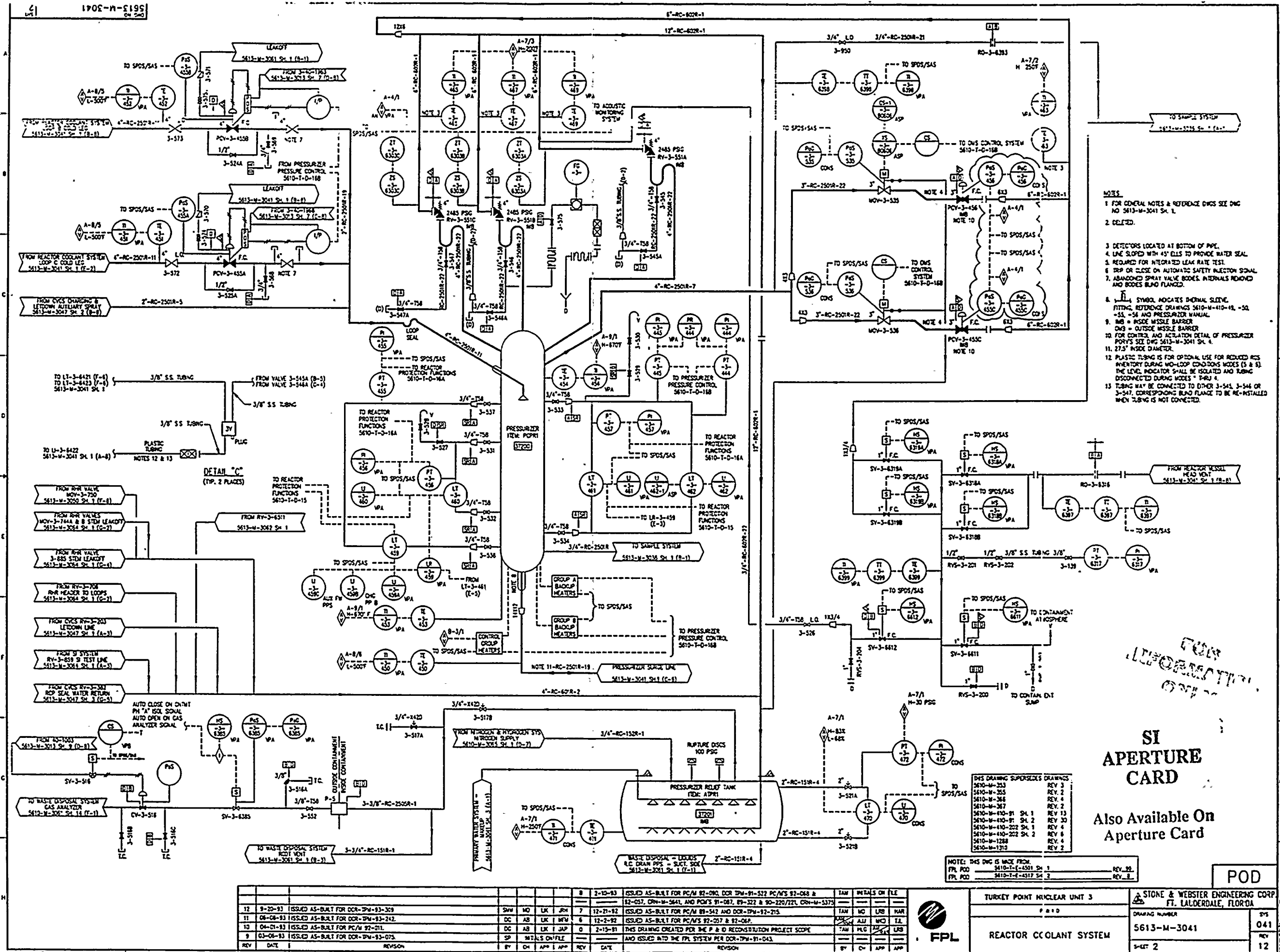
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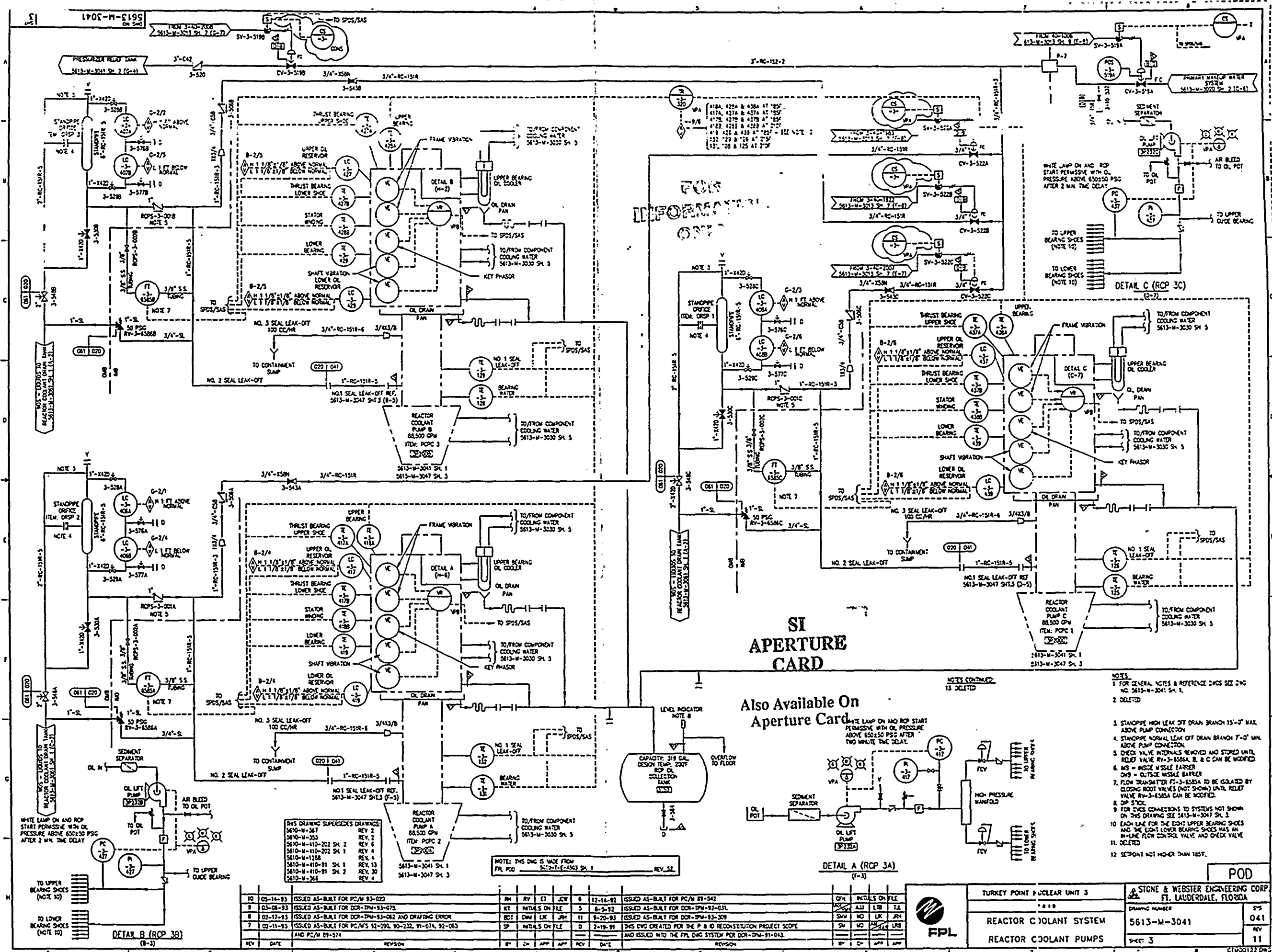
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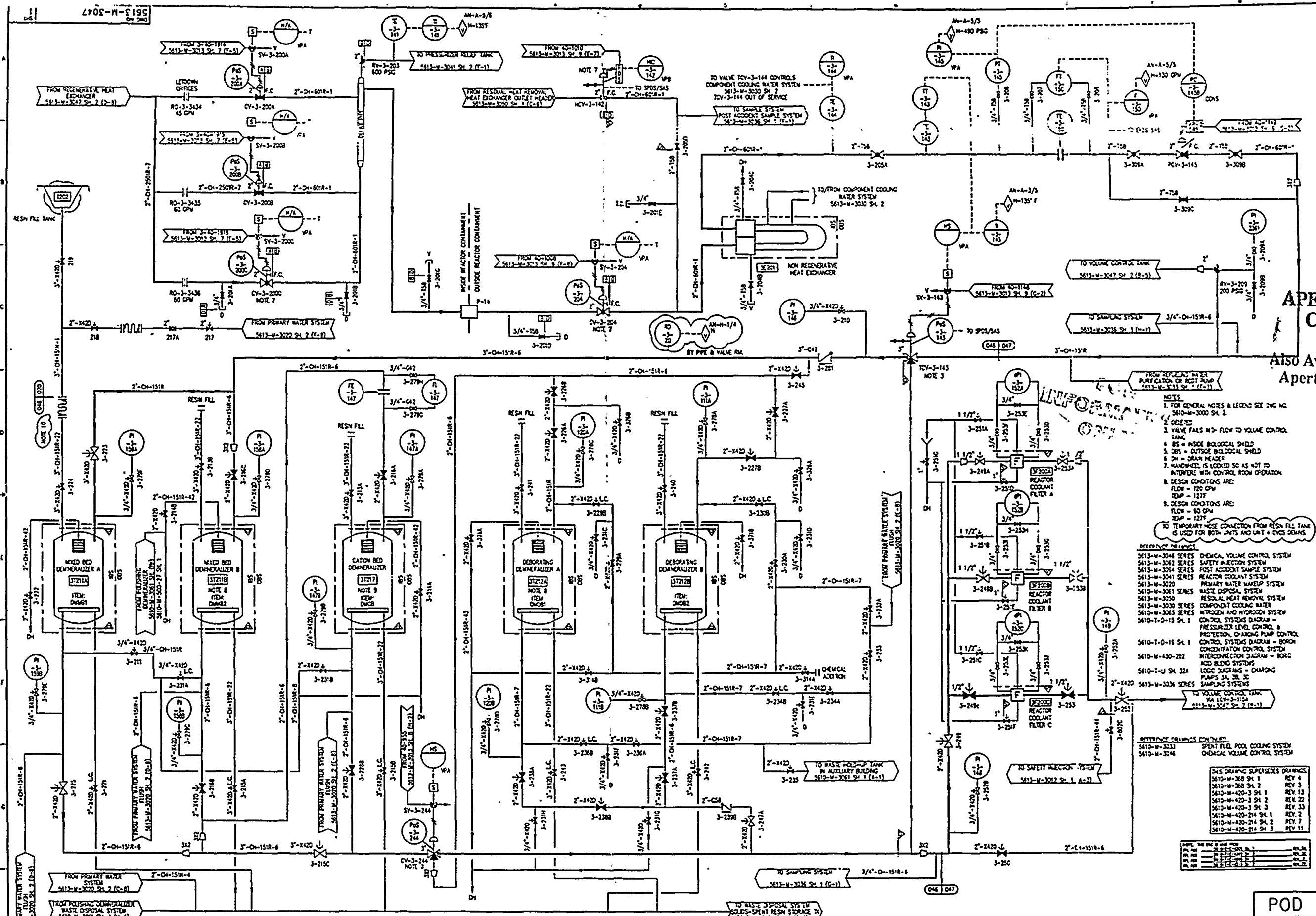


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1950-1951



150-23-048



SI
APERTURE
CARD

Also Available On
Aperture Card

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2
 2. OLETS
 3. VALVE FAILS W/3 FLOW TO VOLUME CONTROL TANK
 4. BS = INSIDE BIOLOGICAL SHIELD
 5. OS = OUTSIDE BIOLOGICAL SHIELD
 6. DH = DRAIN HEADER
 7. HANDWHEEL IS LOCKED SO AS NOT TO INTERFERE WITH CONTROL ROOM OPERATION
 8. DESIGN CONDITIONS ARE:
FLOW = 120 GPM
TEMP = 127°F
 9. DESIGN CONDITIONS ARE:
FLOW = 60 GPM
TEMP = 127°F
 10. TEMPORARY HOSE CONNECTION FROM RESIN FILL TANK IS USED FOR BOTH UNITS AND UNIT 4 CYS DOWNS


- REFERENCE DRAWINGS:
- 5610-M-3004 SERIES CHEMICAL VOLUME CONTROL SYSTEM
 - 5610-M-3005 SERIES SAFETY INJECTION SYSTEM
 - 5610-M-3006 SERIES POST ACCIDENT SAMPLE SYSTEM
 - 5610-M-3007 SERIES REACTOR COOLANT SYSTEM
 - 5610-M-3008 SERIES PRIMARY WATER MAKEUP SYSTEM
 - 5610-M-3009 SERIES WASTE DISPOSAL SYSTEM
 - 5610-M-3010 SERIES RESIDUAL HEAT REMOVAL SYSTEM
 - 5610-M-3011 SERIES COMPONENT COOLING WATER
 - 5610-M-3012 SERIES NITROGEN AND HYDROGEN SYSTEM
 - 5610-T-2-15 SH. 1 CONTROL SYSTEMS DIAGRAM - PRESSURIZER LEVEL CONTROL & PROTECTION, CHARGING PUMP CONTROL
 - 5610-T-2-15 SH. 1 CONTROL SYSTEMS DIAGRAM - BORON CONCENTRATION CONTROL SYSTEM
 - 5610-M-430-202 INTERCONNECTION DIAGRAM - BORO
 - 5610-T-2-15 SH. 32A ACC BORO SYSTEMS
 - 5610-T-2-15 SH. 32A LOCAL DIAGRAMS - CHARGING PUMPS 3A, 3B, 3C
 - 5610-M-3014 SERIES SAMPLING SYSTEMS

- REFERENCE DRAWINGS CONTINUED:
- 5610-M-3013 SPENT FUEL POOL COOLING SYSTEM
 - 5610-M-3014 CHEMICAL VOLUME CONTROL SYSTEM

THIS DRAWING SUPERSEDES DRAWINGS:

| | |
|----------------------|---------|
| 5610-M-3008 SH. 1 | REV. 4 |
| 5610-M-3008 SH. 2 | REV. 3 |
| 5610-M-420-3 SH. 1 | REV. 13 |
| 5610-M-420-3 SH. 2 | REV. 22 |
| 5610-M-420-3 SH. 3 | REV. 23 |
| 5610-M-420-214 SH. 1 | REV. 2 |
| 5610-M-420-214 SH. 2 | REV. 7 |
| 5610-M-420-214 SH. 3 | REV. 11 |

| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|---|----|-------|-----|-----|--------|--|----|-----|-----|
| 8 | 8-25-93 | ISSUED AS-BUILT FOR DCR-TPM-93-309 AND PCM 93-004 | DM | NO | LM | 3 | 8-3-92 | ISSUED AS-BUILT FOR DCR-TPM-92-031 | DM | NO | LM |
| 7 | 04-01-93 | ISSUED AS-BUILT FOR PCM 92-011 AND 93-046 | DM | AS | LM | 2 | 3-4-92 | ISSUED AS-BUILT FOR DCR-TPM-91-0423, DCR-TPM-91-0428 AND DCR-TPM-91-0532 | DM | NO | LM |
| 6 | 3-5-93 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | DM | INTLS | LM | 1 | 3-5-91 | THIS Dwg CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-TPM-91-045 | DM | NO | LM |
| 5 | 2-10-93 | ISSUED AS-BUILT FOR PCM 92-090 & 89-555, DCR-TPM 91-600 | DM | INTLS | LM | 0 | | | | | |
| 4 | 12-21-92 | ISSUED AS-BUILT FOR PCM 91-542 AND DCR-TPM-92-215 | DM | INTLS | LM | 0 | | | | | |



TURKEY POINT NUCLEAR UNIT 3
CHEMICAL AND VOLUME CONTROL SYSTEM
CHARGING AND LETDOWN

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5613-M-3047

REV
8

64-15534-88

SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

1. FOR NOTES & DRAWING REFERENCES, SEE DRAWING NO. 5613-M-3047 SH 1
2. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK
3. ROP = REVERSE BORON PANEL
4. ASP = REVERSE SHUTDOWN PANEL
5. ELECTROMAGNETIC-LOADED METER IN VERTICAL PIPE RUN
6. SEE 5610-T-0-15 FOR COMPLETE INFORMATION ON CONTROLS AND INSTRUMENTATION
7. HAND WHEEL IS LOCKED IN A POSITION SO AS NOT TO INTERFERE WITH CONTROL ROOM OPERATION OF THE VALVE. VALVE FUNCTIONS AS BOTH ISOLATION AND RELIEF VALVE
8. BORE A 3/4" HOLE IN ONE DISC TO PROVIDE A RELIEF PATH FROM BETWEEN THE DISCS IN THE DIRECTION OF THE ARROW
9. SPECIAL SPRING LOADED CHECK VALVE - 75 PSID BACKPRESSURE
10. OBS = OUTSIDE BIOLOGICAL SHIELD
11. OBS = INSIDE BIOLOGICAL SHIELD
12. SH = DRAIN HEATER
13. BORIC ACID HEAT TRACING SHOWN ON THIS DRAWING IS NOT IN SERVICE
14. DEHEATED HEAT TRACING ON THE BORATION FLOW PATH PORTION OF CYCS AND ASSOCIATED PUMPING ISOLATION MAY BE PERMANENTLY REMOVED
15. SELECTOR SWITCH BYPASSES THE INTERLOCK BETWEEN LCV-3-440 & CY-3-200A, B & C IN THE EVENT AN APPROPRIATE FIRE SUPPRESSANT OPENS CY-3-200A, B OR C PREVENTING LCV-3-440 CLOSURE

| REV | DATE | DESCRIPTION |
|-----|---------|--|
| 1 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-072 |
| 2 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-090, 90-140, 90-017, 90-055 & 90-163 |
| 3 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-031 |
| 4 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-030 |
| 5 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-033 |
| 6 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-035 |
| 7 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-046 AND PC/M'S 97-041 |
| 8 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-033 |
| 9 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-046 AND PC/M'S 97-041 |
| 10 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-033 |
| 11 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-046 AND PC/M'S 97-041 |
| 12 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-033 |
| 13 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-046 AND PC/M'S 97-041 |
| 14 | 11-1-73 | ISSUED AS-BUILT FOR DCR-IPW-97-033 |
| 15 | 11-1-73 | ISSUED AS-BUILT FOR PC/M'S 97-046 AND PC/M'S 97-041 |



TURKEY POINT NUCLEAR UNIT 3
P. 010
CHEMICAL AND VOLUME CONTROL
SYSTEM
CHARGING AND LETDOWN
STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3047
SHEET 2
047
REV
12

940.1260331-29

1880 321046. 22

1880 321046. 22

SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

NOTES
1 FOR GENERAL NOTES & REFERENCE ENCS SEE ENC
NO 5613-M-3047 SH 1
2 DELTED

3 VALVE REQUIRED FOR CONTAINMENT LEAK RATE TEST
4 OBS - OUTSIDE BIOLOGICAL SHIELD
5 INS - INSIDE BIOLOGICAL SHIELD
6 DH - DRAIN HEADER

POD



TURKEY POINT NUCLEAR UNIT 3

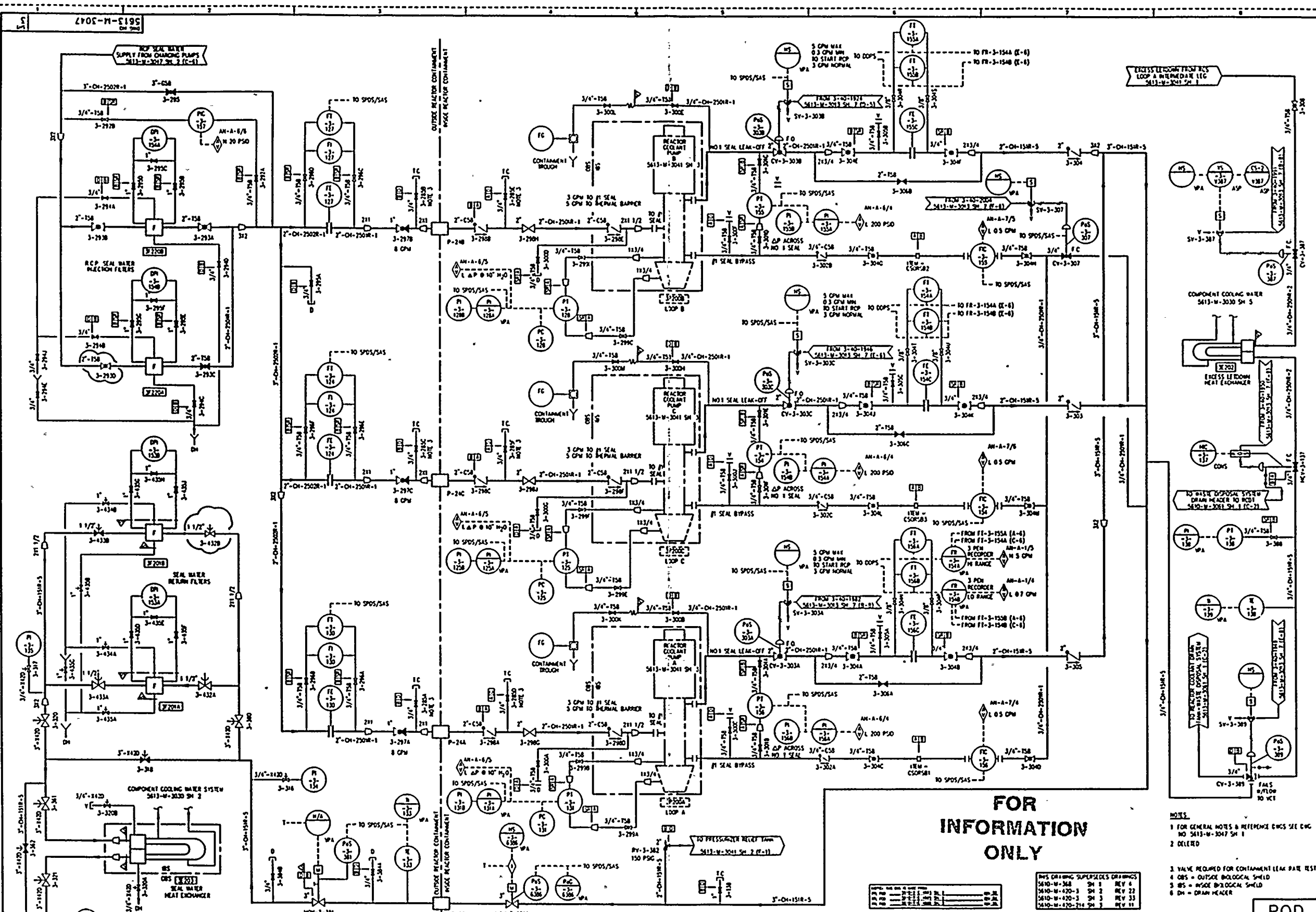
CHEMICAL AND VOLUME
CONTROL SYSTEM
SEAL WATER INJECTION TO RCP

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5613-M-3047
SHEET 3

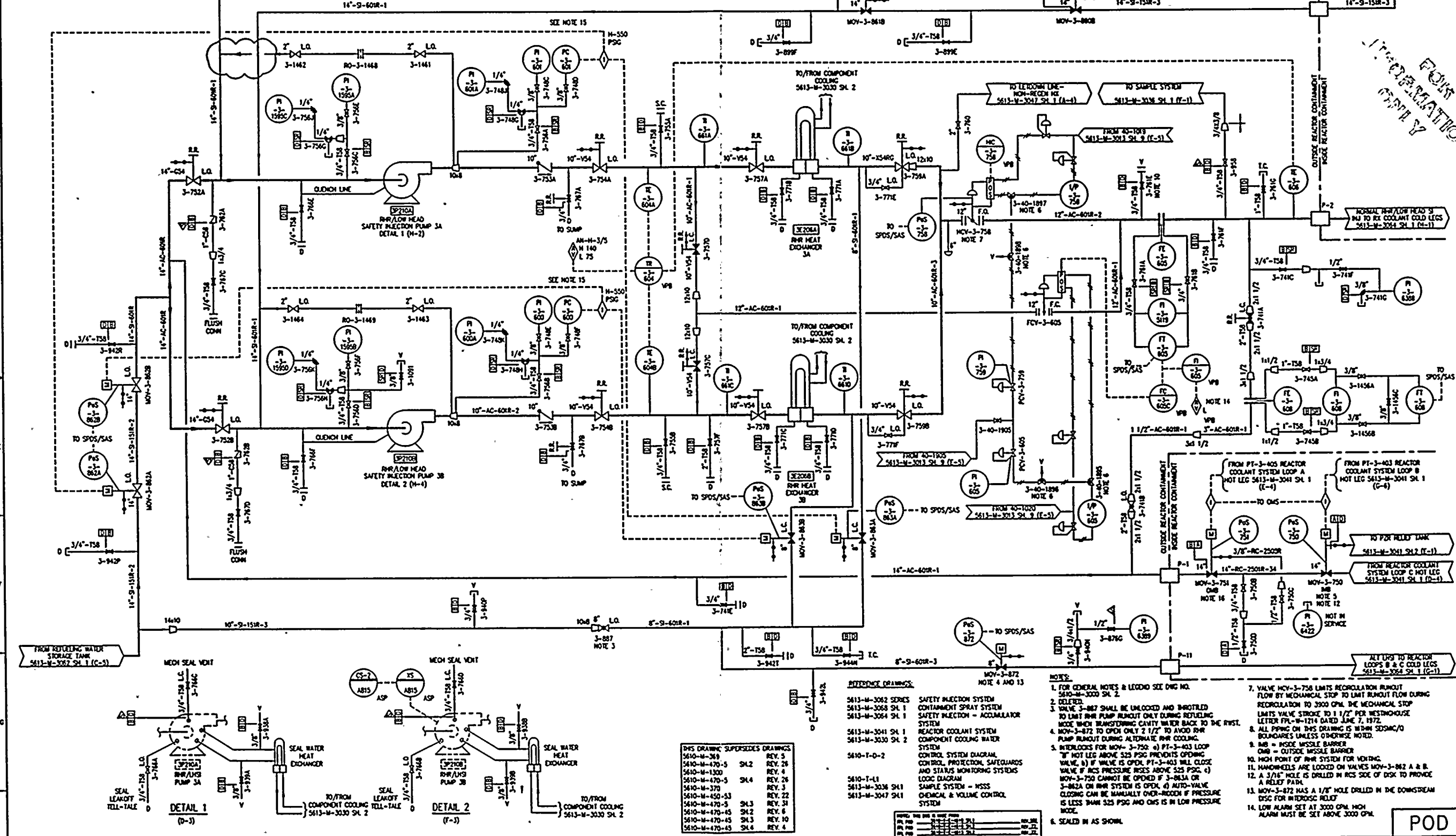
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| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|---|----|-----|-----|-----|----------|---|----|-----|-----|
| 1 | 02-11-93 | ISSUED AS-BUILT FOR PC/M 92-090 AND DCR-PM-10-048 | SM | AP | HC | 1 | 02-11-93 | ISSUED AS-BUILT FOR PC/M 92-090 AND DCR-PM-10-048 | SM | AP | HC |
| 2 | 12-16-92 | ISSUED AS-BUILT FOR PC/M 92-542 AND CHN-M-5417 WITH EXEMPTION | SM | AP | HC | 2 | 12-16-92 | ISSUED AS-BUILT FOR PC/M 92-542 AND CHN-M-5417 WITH EXEMPTION | SM | AP | HC |
| 3 | 04-06-93 | ISSUED AS-BUILT FOR PC/M 92-091 AND MCOOP DCR-PM-93-005 FINAL | SM | AP | HC | 3 | 04-06-93 | ISSUED AS-BUILT FOR PC/M 92-091 AND MCOOP DCR-PM-93-005 FINAL | SM | AP | HC |
| 4 | 03-06-93 | ISSUED AS-BUILT FOR DCR-PM-93-027 | SM | AP | HC | 4 | 03-06-93 | ISSUED AS-BUILT FOR DCR-PM-93-027 | SM | AP | HC |
| 5 | 02-17-93 | ISSUED AS-BUILT FOR DCR-PM-93-042 | SM | AP | HC | 5 | 02-17-93 | ISSUED AS-BUILT FOR DCR-PM-93-042 | SM | AP | HC |



NOTES CONTINUED

15. DURING SHUTDOWN AND COOLDOWN WITH RHR IN SERVICE VALVES 862A & B AND 863A & B ARE CLOSED. TO PREVENT PRESSURIZING THE LINE TO RUST PC-600 AND PC-601 WILL OPEN CONTACTS AND PREVENT OPENING THESE VALVES IF RHR PRESSURE IS ABOVE 210 PSIG. ALSO 862A & B AND 863A & B ARE INTERLOCKED WITH 750 & 751. SEE NOTES 5 AND 16.
16. INTERLOCKS FOR MOV-3-751: a) PT-3-405 LOOP "A" NOT LEG ABOVE 525 PSIG PREVENTS OPENING VALVE. b) IF VALVE IS OPEN, PT-3-405 WILL CLOSE VALVE IF RCS PRESSURE RISES ABOVE 525 PSIG. c) MOV-3-751 CANNOT BE OPENED IF 3-863B OR 3-862B ON RHR SYSTEM IS OPEN. d) AUTO-VALVE CLOSING CAN BE MANUALLY OVER-RIDDEN IF PRESSURE IS LESS THAN 525 PSIG AND OMS IS IN LOW PRESSURE MODE.



| REV | DATE | REVISION | BY | CH | APP | REV | DATE | REVISION | BY | CH | APP |
|-----|----------|---|----|----|-----|-----|----------|---|-----|----|-----|
| 1 | 11-4-93 | ISSUED AS-BUILT FOR DCR-IPM-93-497. | SM | MD | UK | 2 | 12-23-92 | ISSUED AS-BUILT FOR PC/M 89-542, CRN-M-5567, CRN-M-5574 | TAM | MD | UK |
| 2 | 9-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309 | SM | MD | UK | 3 | 3-4-92 | ISSUED AS-BUILT FOR DCR-IPM-91-532 | TAM | MD | UK |
| 3 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002 AND PC/M 93-046. | SP | AB | RFR | 4 | 6-2-91 | ISSUED AS-BUILT FOR DCR-IPM-91-532 | TAM | MD | UK |
| 4 | 03-08-93 | ISSUED AS-BUILT FOR DCR-IPM-93-075. | SP | AB | RFR | 5 | 6-2-91 | ISSUED AS-BUILT FOR DCR-IPM-91-532 | TAM | MD | UK |
| 5 | 2-10-93 | ISSUED AS-BUILT FOR PC/M'S 92-090, 90-386, 90-445, 89-457, AND CRN-E-11470. | SM | MD | UK | 6 | 6-2-91 | ISSUED AS-BUILT FOR DCR-IPM-91-532 | TAM | MD | UK |

| | |
|-----------------------------------|---------|
| THIS DRAWING SUPERSEDES DRAWINGS: | REV. 5 |
| 5610-M-269 | REV. 5 |
| 5610-M-470-5 | REV. 26 |
| 5610-M-1300 | REV. 4 |
| 5610-M-470-5 | REV. 26 |
| 5610-M-370 | REV. 5 |
| 5610-M-450-53 | REV. 22 |
| 5610-M-470-5 | REV. 31 |
| 5610-M-470-5 | REV. 32 |
| 5610-M-470-5 | REV. 33 |
| 5610-M-470-5 | REV. 34 |
| 5610-M-470-5 | REV. 35 |
| 5610-M-470-5 | REV. 36 |
| 5610-M-470-5 | REV. 37 |
| 5610-M-470-5 | REV. 38 |
| 5610-M-470-5 | REV. 39 |
| 5610-M-470-5 | REV. 40 |
| 5610-M-470-5 | REV. 41 |
| 5610-M-470-5 | REV. 42 |
| 5610-M-470-5 | REV. 43 |
| 5610-M-470-5 | REV. 44 |
| 5610-M-470-5 | REV. 45 |
| 5610-M-470-5 | REV. 46 |
| 5610-M-470-5 | REV. 47 |
| 5610-M-470-5 | REV. 48 |
| 5610-M-470-5 | REV. 49 |
| 5610-M-470-5 | REV. 50 |

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| REV. 5 | REV. 6 | REV. 7 | REV. 8 | REV. 9 | REV. 10 | REV. 11 | REV. 12 | REV. 13 | REV. 14 | REV. 15 | REV. 16 | REV. 17 | REV. 18 | REV. 19 | REV. 20 | REV. 21 | REV. 22 | REV. 23 | REV. 24 | REV. 25 | REV. 26 | REV. 27 | REV. 28 | REV. 29 | REV. 30 | REV. 31 | REV. 32 | REV. 33 | REV. 34 | REV. 35 | REV. 36 | REV. 37 | REV. 38 | REV. 39 | REV. 40 | REV. 41 | REV. 42 | REV. 43 | REV. 44 | REV. 45 | REV. 46 | REV. 47 | REV. 48 | REV. 49 | REV. 50 |
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| REV. 51 | REV. 52 | REV. 53 | REV. 54 | REV. 55 | REV. 56 | REV. 57 | REV. 58 | REV. 59 | REV. 60 | REV. 61 | REV. 62 | REV. 63 | REV. 64 | REV. 65 | REV. 66 | REV. 67 | REV. 68 | REV. 69 | REV. 70 | REV. 71 | REV. 72 | REV. 73 | REV. 74 | REV. 75 | REV. 76 | REV. 77 | REV. 78 | REV. 79 | REV. 80 | REV. 81 | REV. 82 | REV. 83 | REV. 84 | REV. 85 | REV. 86 | REV. 87 | REV. 88 | REV. 89 | REV. 90 | REV. 91 | REV. 92 | REV. 93 | REV. 94 | REV. 95 | REV. 96 | REV. 97 | REV. 98 | REV. 99 | REV. 100 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|

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| REV. 101 | REV. 102 | REV. 103 | REV. 104 | REV. 105 | REV. 106 | REV. 107 | REV. 108 | REV. 109 | REV. 110 | REV. 111 | REV. 112 | REV. 113 | REV. 114 | REV. 115 | REV. 116 | REV. 117 | REV. 118 | REV. 119 | REV. 120 | REV. 121 | REV. 122 | REV. 123 | REV. 124 | REV. 125 | REV. 126 | REV. 127 | REV. 128 | REV. 129 | REV. 130 | REV. 131 | REV. 132 | REV. 133 | REV. 134 | REV. 135 | REV. 136 | REV. 137 | REV. 138 | REV. 139 | REV. 140 | REV. 141 | REV. 142 | REV. 143 | REV. 144 | REV. 145 | REV. 146 | REV. 147 | REV. 148 | REV. 149 | REV. 150 |
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| REV. 151 | REV. 152 | REV. 153 | REV. 154 | REV. 155 | REV. 156 | REV. 157 | REV. 158 | REV. 159 | REV. 160 | REV. 161 | REV. 162 | REV. 163 | REV. 164 | REV. 165 | REV. 166 | REV. 167 | REV. 168 | REV. 169 | REV. 170 | REV. 171 | REV. 172 | REV. 173 | REV. 174 | REV. 175 | REV. 176 | REV. 177 | REV. 178 | REV. 179 | REV. 180 | REV. 181 | REV. 182 | REV. 183 | REV. 184 | REV. 185 | REV. 186 | REV. 187 | REV. 188 | REV. 189 | REV. 190 | REV. 191 | REV. 192 | REV. 193 | REV. 194 | REV. 195 | REV. 196 | REV. 197 | REV. 198 | REV. 199 | REV. 200 |
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| REV. 201 | REV. 202 | REV. 203 | REV. 204 | REV. 205 | REV. 206 | REV. 207 | REV. 208 | REV. 209 | REV. 210 | REV. 211 | REV. 212 | REV. 213 | REV. 214 | REV. 215 | REV. 216 | REV. 217 | REV. 218 | REV. 219 | REV. 220 | REV. 221 | REV. 222 | REV. 223 | REV. 224 | REV. 225 | REV. 226 | REV. 227 | REV. 228 | REV. 229 | REV. 230 | REV. 231 | REV. 232 | REV. 233 | REV. 234 | REV. 235 | REV. 236 | REV. 237 | REV. 238 | REV. 239 | REV. 240 | REV. 241 | REV. 242 | REV. 243 | REV. 244 | REV. 245 | REV. 246 | REV. 247 | REV. 248 | REV. 249 | REV. 250 |
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| REV. 251 | REV. 252 | REV. 253 | REV. 254 | REV. 255 | REV. 256 | REV. 257 | REV. 258 | REV. 259 | REV. 260 | REV. 261 | REV. 262 | REV. 263 | REV. 264 | REV. 265 | REV. 266 | REV. 267 | REV. 268 | REV. 269 | REV. 270 | REV. 271 | REV. 272 | REV. 273 | REV. 274 | REV. 275 | REV. 276 | REV. 277 | REV. 278 | REV. 279 | REV. 280 | REV. 281 | REV. 282 | REV. 283 | REV. 284 | REV. 285 | REV. 286 | REV. 287 | REV. 288 | REV. 289 | REV. 290 | REV. 291 | REV. 292 | REV. 293 | REV. 294 | REV. 295 | REV. 296 | REV. 297 | REV. 298 | REV. 299 | REV. 300 |
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| REV. 301 | REV. 302 | REV. 303 | REV. 304 | REV. 305 | REV. 306 | REV. 307 | REV. 308 | REV. 309 | REV. 310 | REV. 311 | REV. 312 | REV. 313 | REV. 314 | REV. 315 | REV. 316 | REV. 317 | REV. 318 | REV. 319 | REV. 320 | REV. 321 | REV. 322 | REV. 323 | REV. 324 | REV. 325 | REV. 326 | REV. 327 | REV. 328 | REV. 329 | REV. 330 | REV. 331 | REV. 332 | REV. 333 | REV. 334 | REV. 335 | REV. 336 | REV. 337 | REV. 338 | REV. 339 | REV. 340 | REV. 341 | REV. 342 | REV. 343 | REV. 344 | REV. 345 | REV. 346 | REV. 347 | REV. 348 | REV. 349 | REV. 350 |
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| REV. 351 | REV. 352 | REV. 353 | REV. 354 | REV. 355 | REV. 356 | REV. 357 | REV. 358 | REV. 359 | REV. 360 | REV. 361 | REV. 362 | REV. 363 | REV. 364 | REV. 365 | REV. 366 | REV. 367 | REV. 368 | REV. 369 | REV. 370 | REV. 371 | REV. 372 | REV. 373 | REV. 374 | REV. 375 | REV. 376 | REV. 377 | REV. 378 | REV. 379 | REV. 380 | REV. 381 | REV. 382 | REV. 383 | REV. 384 | REV. 385 | REV. 386 | REV. 387 | REV. 388 | REV. 389 | REV. 390 | REV. 391 | REV. 392 | REV. 393 | REV. 394 | REV. 395 | REV. 396 | REV. 397 | REV. 398 | REV. 399 | REV. 400 |
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| REV. 401 | REV. 402 | REV. 403 | REV. 404 | REV. 405 | REV. 406 | REV. 407 | REV. 408 | REV. 409 | REV. 410 | REV. 411 | REV. 412 | REV. 413 | REV. 414 | REV. 415 | REV. 416 | REV. 417 | REV. 418 | REV. 419 | REV. 420 | REV. 421 | REV. 422 | REV. 423 | REV. 424 | REV. 425 | REV. 426 | REV. 427 | REV. 428 | REV. 429 | REV. 430 | REV. 431 | REV. 432 | REV. 433 | REV. 434 | REV. 435 | REV. 436 | REV. 437 | REV. 438 | REV. 439 | REV. 440 | REV. 441 | REV. 442 | REV. 443 | REV. 444 | REV. 445 | REV. 446 | REV. 447 | REV. 448 | REV. 449 | REV. 450 |
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| REV. 451 | REV. 452 | REV. 453 | REV. 454 | REV. 455 | REV. 456 | REV. 457 | REV. 458 | REV. 459 | REV. 460 | REV. 461 | REV. 462 | REV. 463 | REV. 464 | REV. 465 | REV. 466 | REV. 467 | REV. 468 | REV. 469 | REV. 470 | REV. 471 | REV. 472 | REV. 473 | REV. 474 | REV. 475 | REV. 476 | REV. 477 | REV. 478 | REV. 479 | REV. 480 | REV. 481 | REV. 482 | REV. 483 | REV. 484 | REV. 485 | REV. 486 | REV. 487 | REV. 488 | REV. 489 | REV. 490 | REV. 491 | REV. 492 | REV. 493 | REV. 494 | REV. 495 | REV. 496 | REV. 497 | REV. 498 | REV. 499 | REV. 500 |
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| REV. 501 | REV. 502 | REV. 503 | REV. 504 | REV. 505 | REV. 506 | REV. 507 | REV. 508 | REV. 509 | REV. 510 | REV. 511 | REV. 512 | REV. 513 | REV. 514 | REV. 515 | REV. 516 | REV. 517 | REV. 518 | REV. 519 | REV. 520 | REV. 521 | REV. 522 | REV. 523 | REV. 524 | REV. 525 | REV. 526 | REV. 527 | REV. 528 | REV. 529 | REV. 530 | REV. 531 | REV. 532 | REV. 533 | REV. 534 | REV. 535 | REV. 536 | REV. 537 | REV. 538 | REV. 539 | REV. 540 | REV. 541 | REV. 542 | REV. 543 | REV. 544 | REV. 545 | REV. 546 | REV. 547 | REV. 548 | REV. 549 | REV. 550 |
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| REV. 551 | REV. 552 | REV. 553 | REV. 554 | REV. 555 | REV. 556 | REV. 557 | REV. 558 | REV. 559 | REV. 560 | REV. 561 | REV. 562 | REV. 563 | REV. 564 | REV. 565 | REV. 566 | REV. 567 | REV. 568 | REV. 569 | REV. 570 | REV. 571 | REV. 572 | REV. 573 | REV. 574 | REV. 575 | REV. 576 | REV. 577 | REV. 578 | REV. 579 | REV. 580 | REV. 581 | REV. 582 | REV. 583 | REV. 584 | REV. 585 | REV. 586 | REV. 587 | REV. 588 | REV. 589 | REV. 590 | REV. 591 | REV. 592 | REV. 593 | REV. 594 | REV. 595 | REV. 596 | REV. 597 | REV. 598 | REV. 599 | REV. 600 |
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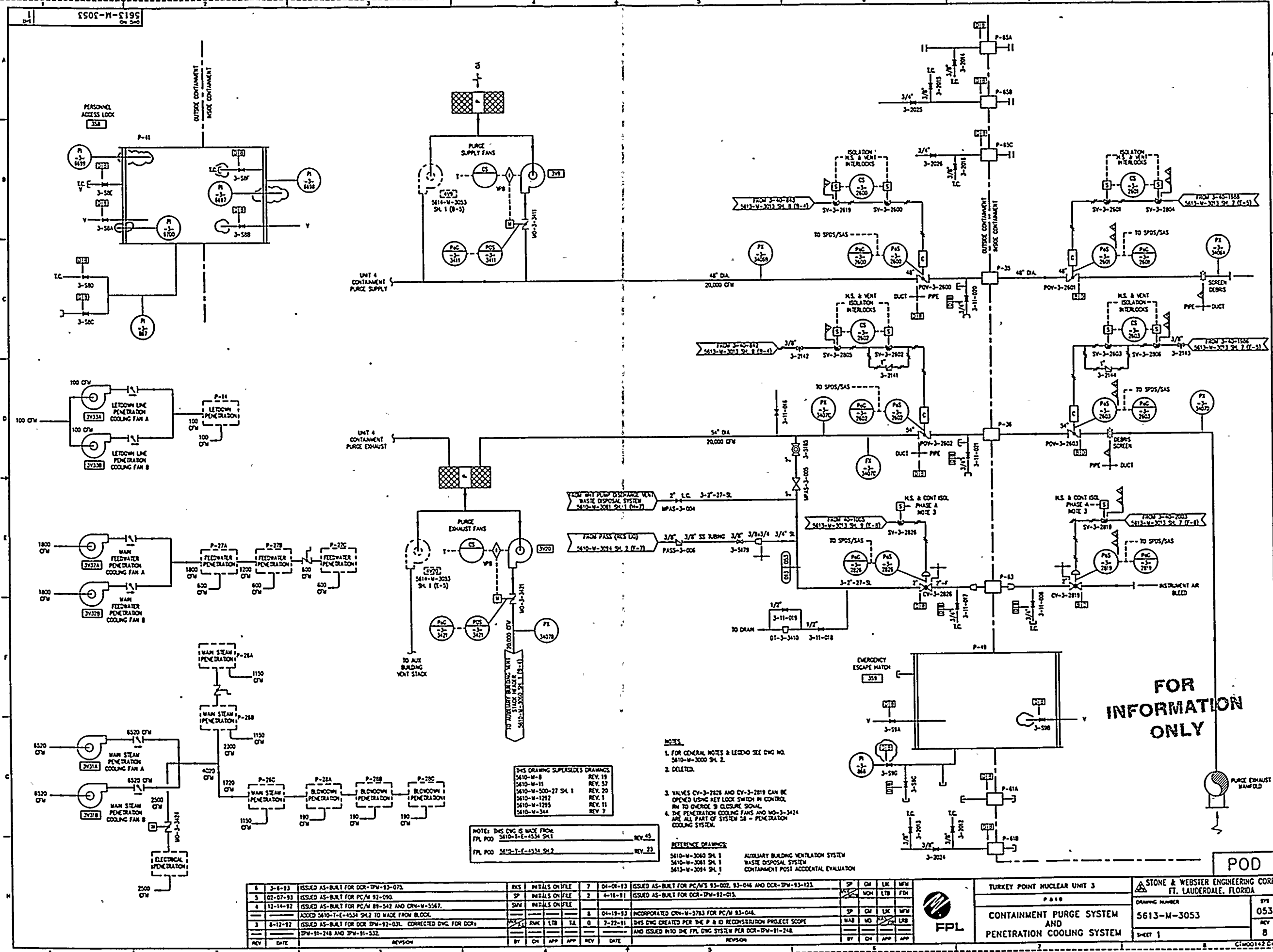
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| REV. 601 | REV. 602 | REV. 603 | REV. 604 | REV. 605 | REV. 606 | REV. 607 | REV. 608 | REV. 609 | REV. 610 | REV. 611 | REV. 612 | REV. 613 | REV. 614 | REV. 615 | REV. 616 | REV. 617 | REV. 618 | REV. 619 | REV. 620 | REV. 621 | REV. 622 | REV. 623 | REV. 624 | REV. 625 | REV. 626 | REV. 627 | REV. 628 | REV. 629 | REV. 630 | REV. 631 | REV. 632 | REV. 633 | REV. 634 | REV. 635 | REV. 636 | REV. 637 | REV. 638 | REV. 639 | REV. 640 | REV. 641 | REV. 642 | REV. 643 | REV. 644 | REV. 645 | REV. 646 | REV. 647 | REV. 648 | REV. 649 | REV. 650 |
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| REV. 651 | REV. 652 | REV. 653 | REV. 654 | REV. 655 | REV. 656 | REV. 657 | REV. 658 | REV. 659 | REV. 660 | REV. 661 | REV. 662 | REV. 663 | REV. 664 | REV. 665 | REV. 666 | REV. 667 | REV. 668 | REV. 669 | REV. 670 | REV. 671 | REV. 672 | REV. 673 | REV. 674 | REV. 675 | REV. 676 | REV. 677 | REV. 678 | REV. 679 | REV. 680 | REV. 681 | REV. 682 | REV. 683 | REV. 684 | REV. 685 | REV. 686 | REV. 687 | REV. 688 | REV. 689 | REV. 690 | REV. 691 | REV. 692 | REV. 693 | REV. 694 | REV. 695 | REV. 696 | REV. 697 | REV. 698 | REV. 699 | REV. 700 |
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| REV. 701 | REV. 702 | REV. 703 | REV. 704 | REV. 705 | REV. 706 | REV. 707 | REV. 708 | REV. 709 | REV. 710 | REV. 711 | REV. 712 | REV. 713 | REV. 714 | REV. 715 | REV. 716 | REV. 717 | REV. 718 | REV. 719 | REV. 720 | REV. 721 | REV. 722 | REV. 723 | REV. 724 | REV. 725 | REV. 726 | REV. 727 | REV. 728 | REV. 729 | REV. 730 | REV. 731 | REV. 732 | REV. 733 | REV. 734 | REV. 735 | REV. 736 | REV. 737 | REV. 738 | REV. 739 | REV. 740 | REV. 741 | REV. 742 | REV. 743 | REV. 744 | REV. 745 | REV. 746 | REV. 747 | REV. 748 | REV. 749 | REV. 750 |
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| REV. 751 | REV. 752 | REV. 753 | REV. 754 | REV. 755 | REV. 756 | REV. 757 | REV. 758 | REV. 759 | REV. 760 | REV. 761 | REV. 762 | REV. 763 |
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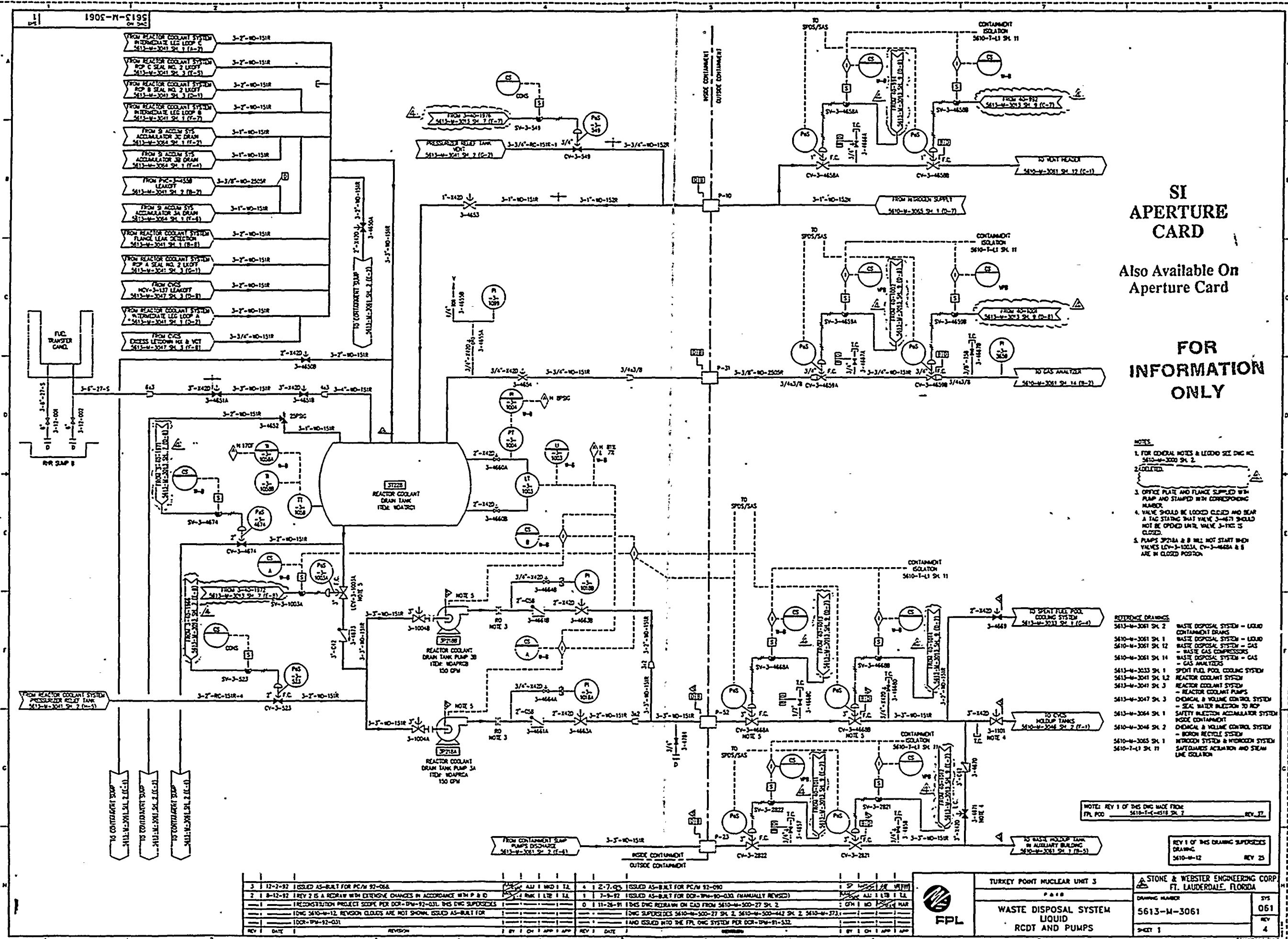


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POD

| | | | | | | | | | | | | | | | | | | | |
|----------|---|---|------------------|------------------|----------|---|--|------|----------|-----|---|---|-----------------------------|----------------|--|---|--|--|--|
| 6 | 3-6-93 | ISSUED AS-BUILT FOR DCR-TPW-93-073. | RYS | INITIALS ON FILE | 7 | 04-08-93 | ISSUED AS-BUILT FOR PC/M/S 93-022, 93-046 AND DCR-TPW-93-123 | SP | CH | LK | WV |  | TURKEY POINT NUCLEAR UNIT 3 | | |  | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | | |
| 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090 | SP | INITIALS ON FILE | 2 | 6-18-93 | ISSUED AS-BUILT FOR DCR-TPW-92-013. | SP | MOH | LTB | WV | P 010 | | | DRAWING NUMBER | | | | | |
| 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-547 AND CRN-W-5567. | SNN | INITIALS ON FILE | 8 | 04-19-93 | INCORPORATED CRN-W-5783 FOR PC/M 93-046 | SP | CH | LK | WV | CONTAINMENT PURGE SYSTEM
AND
PENETRATION COOLING SYSTEM | | | S613-M-3053 | | | | | |
| | ACCD 5610-T-E-4334 S272 TO WACE FROM BLOCK. | | | | 7-22-91 | DWG DNG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | WAB | MO | | LSB | | | | 053 | | | | | |
| 3 | 8-12-92 | ISSUED AS-BUILT FOR DCR-TPW-92-031. CORRECTED DNG. FOR DCR-TPW-91-248 AND TPW-91-532. | RYS | RNC | LTB | LA | 0 | | | | | | | | | | REV 8 | | |
| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP | SHEET 1 | | | C:\C00142\2 | | |



SI
APERTURE
CARD

Also Available On
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FOR
INFORMATION
ONLY

NOTES

1. FOR GENERAL NOTES & LEGEND SEE DNG NO. 5610-M-3001 SH. 2.
2. OBTAINED.
3. OFFICE PLATE AND FLANGE SUPPLIED WITH PUMP AND STAMPED WITH CORRESPONDING NUMBER.
4. VALVE SHOULD BE LOCKED CLOSED AND BEAR A TAG STATING THAT VALVE 3-4671 SHOULD NOT BE OPENED UNTIL VALVE 3-1102 IS CLOSED.
5. PUMPS 3-4654 & 8 WILL NOT START WHEN VALVES 3-1102, 3-1103, 3-4654 & 8 ARE IN CLOSED POSITION.

REFERENCE DRAWINGS

- 5613-M-3061 SH. 2 WASTE DISPOSAL SYSTEM - LIQUID CONTAINMENT DRAINS
- 5610-M-3061 SH. 1 WASTE DISPOSAL SYSTEM - LIQUID
- 5610-M-3061 SH. 12 WASTE DISPOSAL SYSTEM - GAS
- 5610-M-3061 SH. 14 WASTE DISPOSAL SYSTEM - GAS
- 5613-M-3033 SH. 1 SPENT FUEL POOL COOLING SYSTEM
- 5613-M-3041 SH. 12 REACTOR COOLANT SYSTEM
- 5613-M-3041 SH. 3 REACTOR COOLANT PUMPS
- 5613-M-3047 SH. 3 CHEMICAL & VOLUME CONTROL SYSTEM - SEAL WATER INJECTION TO RCP
- 5613-M-3064 SH. 1 SAFETY INJECTION ACCUMULATOR SYSTEM
- 5610-M-3046 SH. 2 INSIDE CONTAINMENT
- 5610-M-3065 SH. 1 CHEMICAL & VOLUME CONTROL SYSTEM - BORON RECYCLE SYSTEM
- 5610-M-3065 SH. 1 NITROGEN SYSTEM & HYDROGEN SYSTEM
- 5610-M-3065 SH. 11 SAFEGUARDS ACCUMULATOR AND STEAM LINE ISOLATION

NOTE: REV 1 OF THIS DNG MADE FROM FPL PDD 5610-T-4518 SH. 2

REV 1 OF THIS DRAWING SUPERSEDES DRAWING 5610-M-12 REV 25

| | | | | | | | |
|-----|---------|---|----------------|-----|----------|---|----------------|
| 3 | 12-2-92 | ISSUED AS-BUILT FOR PC/N 92-05A | ALL 1 MOD 1 12 | 4 | 2-7-95 | ISSUED AS-BUILT FOR PC/N 92-090 | ALL 1 MOD 1 12 |
| 2 | 8-12-92 | REV 2 IS A REDRAW WITH EXTENSIVE CHANGES IN ACCORDANCE WITH P & D | ALL 1 MOD 1 12 | 1 | 7-3-92 | ISSUED AS-BUILT FOR DCH-92M-90-032 (MANUALLY REVISED) | ALL 1 MOD 1 12 |
| 1 | | RECONSTRUCTION PROJECT SCOPE FOR DCH-92M-92-031 THIS DNG SUPERSEDES | | 0 | 11-26-91 | THIS DNG REDRAWN ON CAD FROM 5610-M-300-27 SH. 2 | |
| | | LONG 5610-M-12 REVISION CLOCKS ARE NOT SHOWN ISSUED AS-BUILT FOR | | | | LONG SUPERSEDES 5610-M-300-27 SH. 2, 5610-M-300-442 SH. 2, 5610-M-373 | |
| | | DCR-92M-92-031 | | | | AND ISSUED INTO THE FPL DNG SYSTEM FOR DCH-92M-91-532 | |
| REV | DATE | REVISION | BY | CHK | APP | DATE | REV |

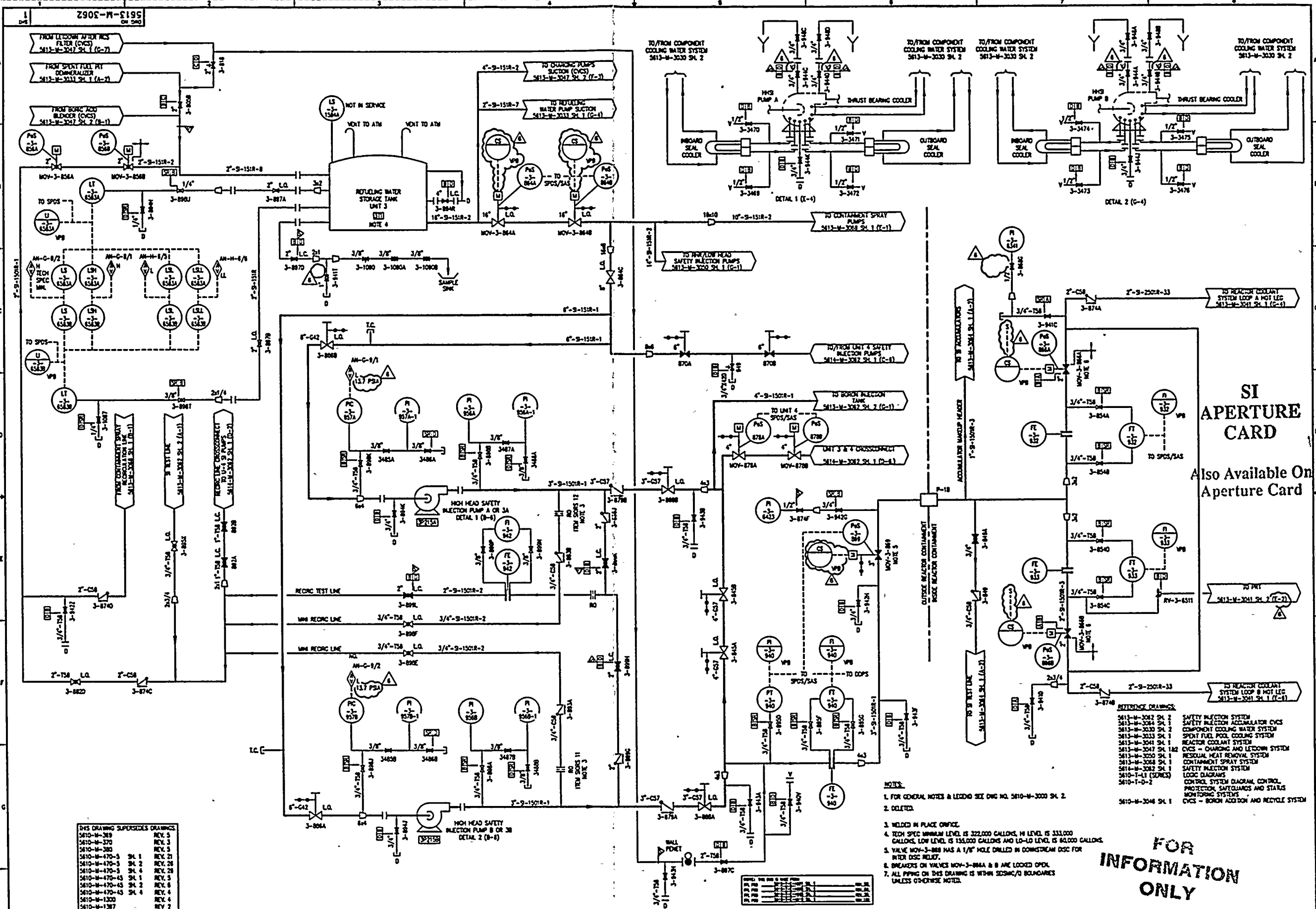
| | | | |
|---|--|--|-------------|
| TURKEY POINT NUCLEAR UNIT 3 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P&ID | | DRAWING NUMBER | 5613-M-3061 |
| WASTE DISPOSAL SYSTEM
LIQUID
RCDT AND PUMPS | | SYS | 061 |
| | | REV | 4 |
| | | SHEET | 1 |

9401260331-33

1993-1994

1993-1994

1993-1994



**SI
APERTURE
CARD**

Also Available On
Aperture Card

THIS DRAWING SUPERSEDES DRAWINGS:

| | |
|---------------|--------|
| 5610-M-3062 | REV. 5 |
| 5610-M-3700 | REV. 5 |
| 5610-M-3800 | REV. 5 |
| 5610-M-4700-5 | SH. 1 |
| 5610-M-4700-5 | SH. 2 |
| 5610-M-4700-5 | SH. 4 |
| 5610-M-4700-5 | SH. 1 |
| 5610-M-4700-5 | SH. 2 |
| 5610-M-4700-5 | SH. 4 |
| 5610-M-1300 | REV. 4 |
| 5610-M-1307 | REV. 2 |

- NOTES:**
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
 2. OBTAINED.
 3. WELDED IN PLACE OFFICE.
 4. TECH SPEC MINIMUM LEVEL IS 322,000 GALLONS, H LEVEL IS 333,000 GALLONS, LOW LEVEL IS 150,000 GALLONS AND LO-LO LEVEL IS 80,000 GALLONS.
 5. VALVE MOV-3-888 HAS A 1/8" HOLE DRILLED IN DOWNSTREAM DISC FOR INTER DISC RELIEF.
 6. BREAKERS ON VALVES MOV-3-888A & B ARE LOCKED OPEN.
 7. ALL PIPING ON THIS DRAWING IS WITHIN SCSSM/O BOUNDARIES UNLESS OTHERWISE NOTED.

- REFERENCE DRAWINGS:**
- 5610-M-3062 SH. 1
 - 5610-M-3062 SH. 2
 - 5610-M-3062 SH. 3
 - 5610-M-3062 SH. 4
 - 5610-M-3062 SH. 5
 - 5610-M-3062 SH. 6
 - 5610-M-3062 SH. 7
 - 5610-M-3062 SH. 8
 - 5610-M-3062 SH. 9
 - 5610-M-3062 SH. 10
 - 5610-M-3062 SH. 11
 - 5610-M-3062 SH. 12
 - 5610-M-3062 SH. 13
 - 5610-M-3062 SH. 14
 - 5610-M-3062 SH. 15
 - 5610-M-3062 SH. 16
 - 5610-M-3062 SH. 17
 - 5610-M-3062 SH. 18
 - 5610-M-3062 SH. 19
 - 5610-M-3062 SH. 20
 - 5610-M-3062 SH. 21
 - 5610-M-3062 SH. 22
 - 5610-M-3062 SH. 23
 - 5610-M-3062 SH. 24
 - 5610-M-3062 SH. 25
 - 5610-M-3062 SH. 26
 - 5610-M-3062 SH. 27
 - 5610-M-3062 SH. 28
 - 5610-M-3062 SH. 29
 - 5610-M-3062 SH. 30
 - 5610-M-3062 SH. 31
 - 5610-M-3062 SH. 32
 - 5610-M-3062 SH. 33
 - 5610-M-3062 SH. 34
 - 5610-M-3062 SH. 35
 - 5610-M-3062 SH. 36
 - 5610-M-3062 SH. 37
 - 5610-M-3062 SH. 38
 - 5610-M-3062 SH. 39
 - 5610-M-3062 SH. 40
 - 5610-M-3062 SH. 41
 - 5610-M-3062 SH. 42
 - 5610-M-3062 SH. 43
 - 5610-M-3062 SH. 44
 - 5610-M-3062 SH. 45
 - 5610-M-3062 SH. 46
 - 5610-M-3062 SH. 47
 - 5610-M-3062 SH. 48
 - 5610-M-3062 SH. 49
 - 5610-M-3062 SH. 50
 - 5610-M-3062 SH. 51
 - 5610-M-3062 SH. 52
 - 5610-M-3062 SH. 53
 - 5610-M-3062 SH. 54
 - 5610-M-3062 SH. 55
 - 5610-M-3062 SH. 56
 - 5610-M-3062 SH. 57
 - 5610-M-3062 SH. 58
 - 5610-M-3062 SH. 59
 - 5610-M-3062 SH. 60
 - 5610-M-3062 SH. 61
 - 5610-M-3062 SH. 62
 - 5610-M-3062 SH. 63
 - 5610-M-3062 SH. 64
 - 5610-M-3062 SH. 65
 - 5610-M-3062 SH. 66
 - 5610-M-3062 SH. 67
 - 5610-M-3062 SH. 68
 - 5610-M-3062 SH. 69
 - 5610-M-3062 SH. 70
 - 5610-M-3062 SH. 71
 - 5610-M-3062 SH. 72
 - 5610-M-3062 SH. 73
 - 5610-M-3062 SH. 74
 - 5610-M-3062 SH. 75
 - 5610-M-3062 SH. 76
 - 5610-M-3062 SH. 77
 - 5610-M-3062 SH. 78
 - 5610-M-3062 SH. 79
 - 5610-M-3062 SH. 80
 - 5610-M-3062 SH. 81
 - 5610-M-3062 SH. 82
 - 5610-M-3062 SH. 83
 - 5610-M-3062 SH. 84
 - 5610-M-3062 SH. 85
 - 5610-M-3062 SH. 86
 - 5610-M-3062 SH. 87
 - 5610-M-3062 SH. 88
 - 5610-M-3062 SH. 89
 - 5610-M-3062 SH. 90
 - 5610-M-3062 SH. 91
 - 5610-M-3062 SH. 92
 - 5610-M-3062 SH. 93
 - 5610-M-3062 SH. 94
 - 5610-M-3062 SH. 95
 - 5610-M-3062 SH. 96
 - 5610-M-3062 SH. 97
 - 5610-M-3062 SH. 98
 - 5610-M-3062 SH. 99
 - 5610-M-3062 SH. 100

**FOR
INFORMATION
ONLY**

| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|---------|--|----|-----|-----|-----|----------|--|----|-----|-----|-----|------|----------|----|-----|-----|-----|------|----------|----|-----|-----|
| 1 | 3-5-73 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | 5 | 2-10-83 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | SP | | | | | | | | | | | |
| 2 | 3-70-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | 4 | 12-22-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | TAM | | | | | | | | | | | |
| 3 | 12-2-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | 3 | 12-2-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | MAJ | | | | | | | | | | | |
| 4 | 4-2-81 | THIS Dwg CREATED FOR THE P & O RECONSTRUCTION PROJECT SCOPE. | | | | 2 | 4-2-81 | THIS Dwg CREATED FOR THE P & O RECONSTRUCTION PROJECT SCOPE. | | | | MAJ | | | | | | | | | | | |
| 5 | 12-2-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | 1 | 12-2-82 | ISSUED AS-BUILT FOR PC/M 82-080 & 82-057, AND CRN-M-5641. | | | | MAJ | | | | | | | | | | | |



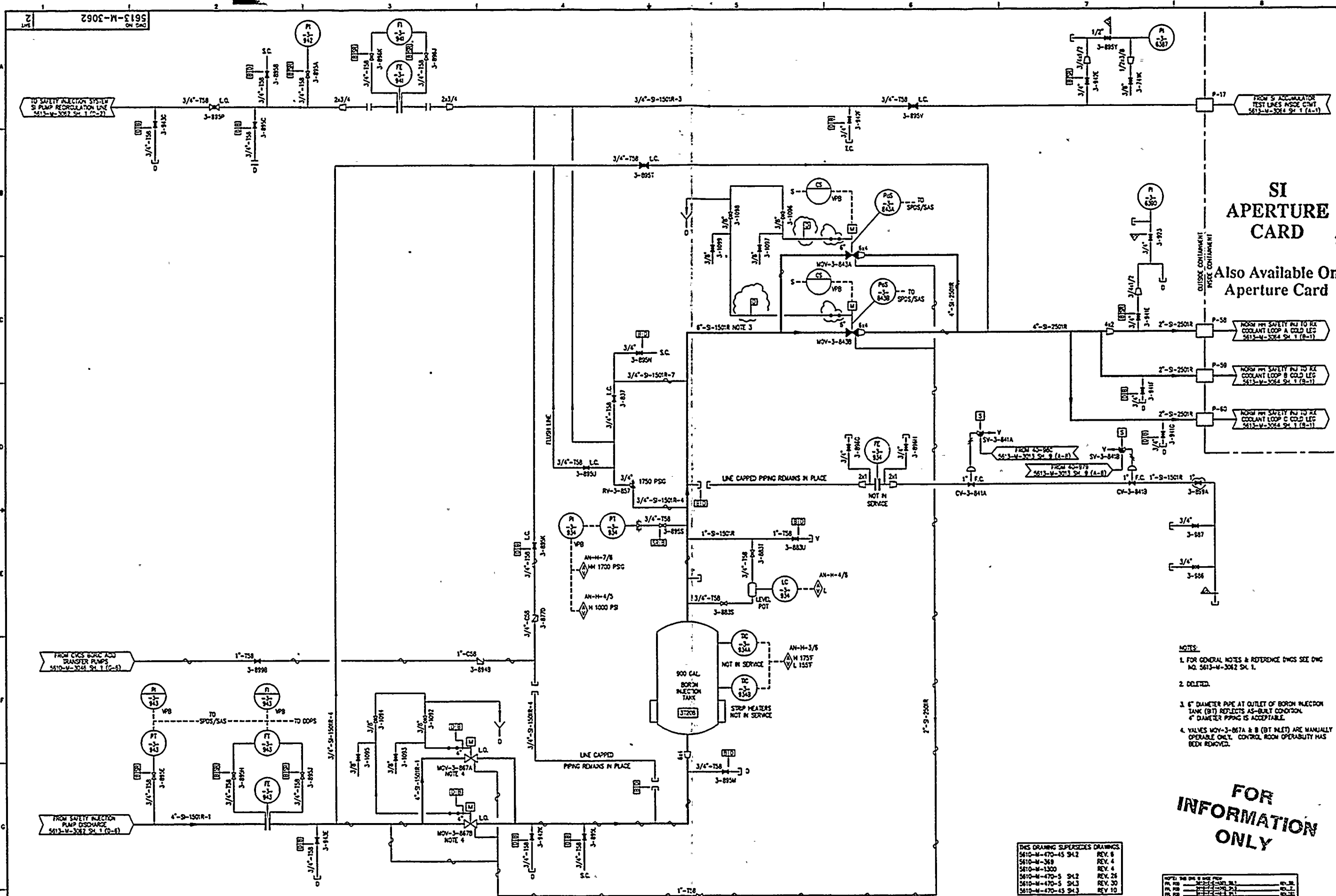
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|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 3 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| SAFETY INJECTION SYSTEM | | DRAWING NUMBER
5613-M-3062 | |
| REV 1 | | 062 | |

9401260331-34

01018-0381

01018-0381

01018-0381



SI APERTURE CARD

Also Available On
Aperture Card

- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5613-M-3062 SH. 1 (A-1)
 2. DELETED.
 3. 6" DIAMETER PIPE AT OUTLET OF BORON INJECTION TANK (BT) REFLECTS AS-BUILT CONDITION. 4" DIAMETER PIPING IS ACCEPTABLE.
 4. VALVES MOV-3-867A & B (BT INLET) ARE MANUALLY OPERABLE ONLY. CONTROL ROOM OPERABILITY HAS BEEN REMOVED.

FOR
INFORMATION
ONLY

| THIS DRAWING SUPERSEDES DRAWINGS | REV. |
|----------------------------------|---------|
| 5610-M-470-45 SH.2 | REV. 8 |
| 5610-M-368 | REV. 4 |
| 5610-M-1300 | REV. 4 |
| 5610-M-470-5 SH.2 | REV. 28 |
| 5610-M-470-5 SH.3 | REV. 30 |
| 5610-M-470-45 SH.3 | REV. 10 |

| DATE | BY | CHKD | APP'D | REV. |
|----------|-----|------|-------|------|
| 12-17-81 | TAM | MO | WMS | 1 |
| 12-17-81 | TAM | MO | WMS | 2 |
| 12-17-81 | TAM | MO | WMS | 3 |
| 12-17-81 | TAM | MO | WMS | 4 |
| 12-17-81 | TAM | MO | WMS | 5 |
| 12-17-81 | TAM | MO | WMS | 6 |
| 12-17-81 | TAM | MO | WMS | 7 |
| 12-17-81 | TAM | MO | WMS | 8 |
| 12-17-81 | TAM | MO | WMS | 9 |
| 12-17-81 | TAM | MO | WMS | 10 |

| REV. | DATE | REVISION | BY | CHKD | APP'D | REV. | DATE | REVISION | BY | CHKD | APP'D |
|------|----------|--|-----|------|-------|------|----------|--|-----|------|-------|
| 1 | 3-16-82 | ISSUED AS-BUILT FOR PC/M 91-140 | TAM | MO | WMS | 1 | 3-16-82 | ISSUED AS-BUILT FOR PC/M 91-140 | TAM | MO | WMS |
| 2 | 10-17-81 | THIS DRAWING SUPERSEDES DRAWINGS 5610-M-470-45 SH.2, 5610-M-368, 5610-M-1300, 5610-M-470-5 SH.2, 5610-M-470-5 SH.3 AND 5610-M-470-45 SH.3 FOR DCR-TPM-91-044, ISSUED AS-BUILT FOR PC/M 91-092. | TAM | MO | WMS | 2 | 10-17-81 | THIS DRAWING SUPERSEDES DRAWINGS 5610-M-470-45 SH.2, 5610-M-368, 5610-M-1300, 5610-M-470-5 SH.2, 5610-M-470-5 SH.3 AND 5610-M-470-45 SH.3 FOR DCR-TPM-91-044, ISSUED AS-BUILT FOR PC/M 91-092. | TAM | MO | WMS |
| 3 | 4-2-81 | THIS DWG CREATED PER THE P & D RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM FOR DCR-TPM-91-044. | TAM | MO | WMS | 3 | 4-2-81 | THIS DWG CREATED PER THE P & D RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM FOR DCR-TPM-91-044. | TAM | MO | WMS |



TURKEY POINT NUCLEAR UNIT 3
PAID
SAFETY INJECTION SYSTEM

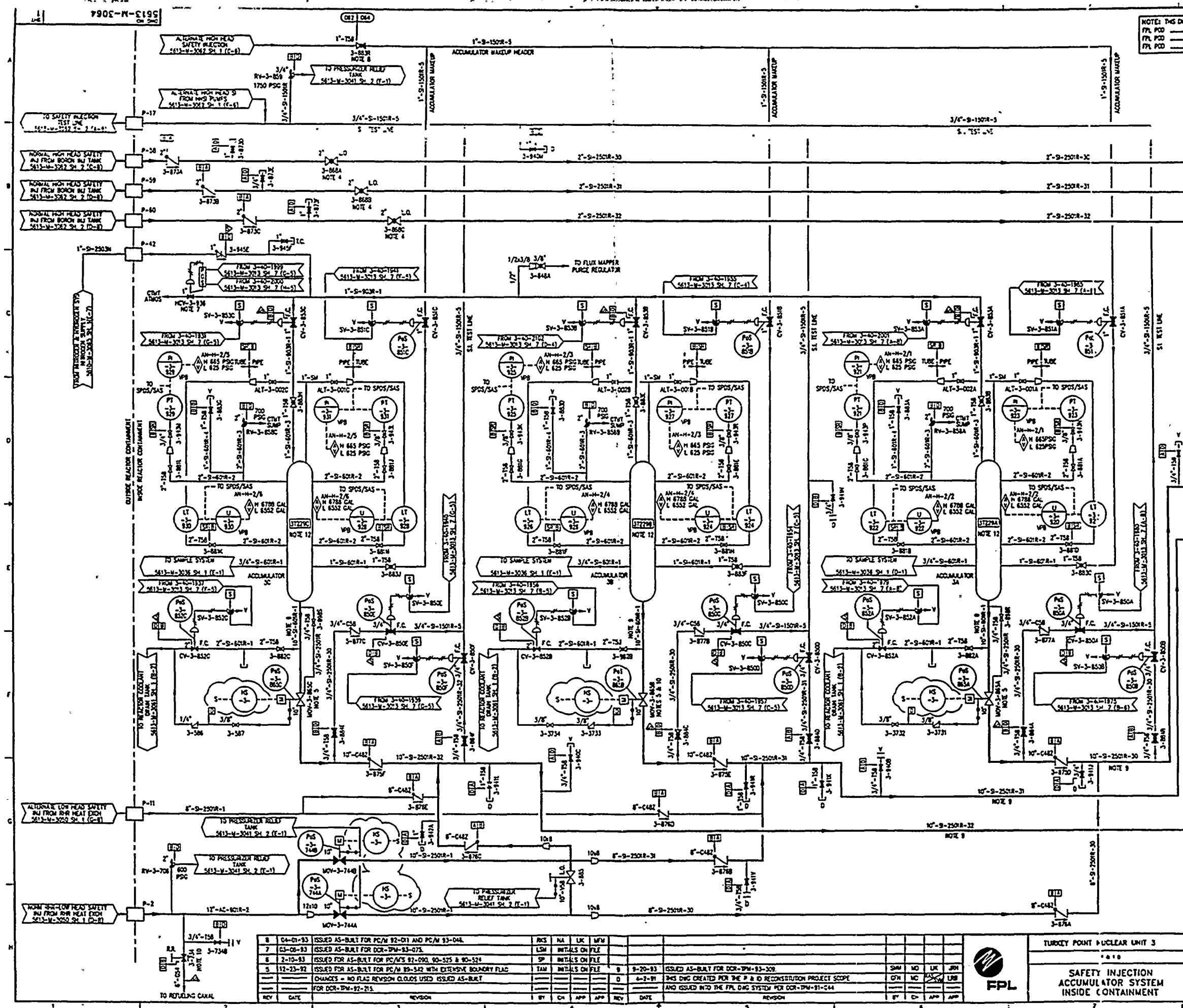
STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3062
REV 6

9401260331 - 35

NOTES: THIS Dwg IS MADE FROM:
FPL PCD 5613-M-3000 SH. 1 REV. 22
FPL PCD 5613-M-3000 SH. 2 REV. 22
FPL PCD 5613-M-3000 SH. 3 REV. 22

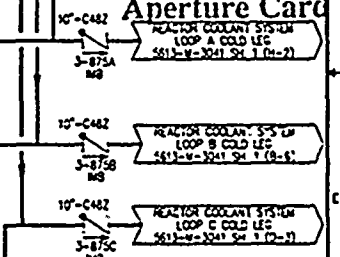
THIS DRAWING SUPERSEDES DRAWINGS:

| | |
|-------------|---------|
| 5610-M-3000 | REV. 3 |
| 5610-M-3000 | REV. 4 |
| 5610-M-3000 | REV. 5 |
| 5610-M-3000 | REV. 6 |
| 5610-M-3000 | REV. 7 |
| 5610-M-3000 | REV. 8 |
| 5610-M-3000 | REV. 9 |
| 5610-M-3000 | REV. 10 |
| 5610-M-3000 | REV. 11 |
| 5610-M-3000 | REV. 12 |
| 5610-M-3000 | REV. 13 |
| 5610-M-3000 | REV. 14 |
| 5610-M-3000 | REV. 15 |
| 5610-M-3000 | REV. 16 |
| 5610-M-3000 | REV. 17 |
| 5610-M-3000 | REV. 18 |
| 5610-M-3000 | REV. 19 |
| 5610-M-3000 | REV. 20 |
| 5610-M-3000 | REV. 21 |
| 5610-M-3000 | REV. 22 |



SI APERTURE CARD

Also Available On Aperture Card




- NOTES:
- FOR GENERAL NOTES & LEGEND SEE Dwg NO. 5610-M-3000 SH. 2.
 - SEE REF.
 - ALL COMPONENTS ON THIS DRAWING ARE WITHIN THE SDMS/C/O BOUNDARY.
 - REQUIRED FOR CONTAINMENT LEAK RATE TEST.
 - REACTORS ON VALVES WCH-3-BEAS, B & C ARE LOCKED OPEN.
 - MSB = MISSILE SHUTTER BAR.
 7. H₂ SUPPLY VENT VALVE WCH-3-136 OPENS AT 900 PSIG UNDER SEAT.
 - VALVE 3-BEAS IS LOCKED TO ASSURE ADEQUATE MAKEUP TO ACCUMULATORS AND TO RESTRICT FLOW DURING HIGH HEAD SAFETY INJECTION FUNCTIONS.
 - SCHEMATIC 140 PPE.
 - A 3/4\"/>
 - INTERLOCK RELAY NOT REQUIRED FOR PCD 80-228.
 - 225 FT³ OF H₂ @ 650 PSIG 878-907 FT. OF 1950 PPM SA.

REFERENCE DRAWINGS:

| | |
|-------------------|-------------------------|
| 5613-M-3036 SH. 1 | SAMPLE SYSTEM |
| 5613-M-3041 SH. 1 | REACTOR COOLANT SYSTEM |
| 5613-M-3041 SH. 2 | LOOPS |
| 5613-M-3041 SH. 3 | REACTOR COOLANT SYSTEM |
| 5613-M-3050 SH. 1 | RESIDUAL HEAT REMOVAL |
| 5613-M-3062 SH. 1 | SAFETY INJECTION SYSTEM |
| 5613-M-3063 SH. 1 | NITROGEN & HYDROGEN |
| 5613-M-3061 SH. 1 | WASTE DISPOSAL SYSTEM |

POD

| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|---|-----|------------------|-----|-----|------|----------|----|-----|-----|
| 8 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-01 AND PC/M 93-04. | AKS | NA | LK | MFM | | | | | |
| 7 | 03-08-83 | ISSUED AS-BUILT FOR DCR-TPM-83-07A. | LSM | INITIALS ON FILE | | | | | | | |
| 6 | 2-10-83 | ISSUED FOR AS-BUILT FOR PC/M 92-090, 90-525 & 90-524. | SP | INITIALS ON FILE | | | | | | | |
| 5 | 12-13-82 | ISSUED FOR AS-BUILT FOR PC/M 89-342 WITH EXTENSIVE BOUNDARY FLAG CHANGES - NO FLAG REVISION CLOUDS USED ISSUED AS-BUILT FOR DCR-TPM-92-215. | TAM | INITIALS ON FILE | | | | | | | |
| 4 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 1 | | | | | | | | | | | |



TURKEY POINT NUCLEAR UNIT 3

SAFETY INJECTION ACCUMULATOR SYSTEM INSIDE CONTAINMENT

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5613-M-3064

REV
9


180081000

0000000000

1969021000



| | | | | | | | | | | | | | |
|-----|----------|---|-----|------|-----|-----|-----|----------|--|-----|------|-----|-----|
| 9 | 7-28-93 | ISSUED AS-BUILT FOR DCR-SPN-93-308 | BT | DC | LM | WM | 13 | 9-20-93 | ISSUED AS-BUILT FOR DCR-SPN-93-309 | SMW | NO | UK | JRN |
| 8 | 7-30-93 | ISSUED AS-BUILT FOR DCR-SPN-93-008 AND PC/M 92-090 & 92-023 | SMW | INTL | S | CH | 12 | 9-1-93 | ISSUED AS-BUILT FOR PC/M 91-088 | SMW | RY | UK | WM |
| 7 | 12-17-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CPN-M-5569 WITH ELEVENHOLE CHANGES TO BOUNDARY FLAGS - NO FLAG REVISION CLOUDS USED | CTM | NO | LRB | NAR | 11 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-023 AND DCR-SPN-93-005 | RMS | DC | JRN | JAP |
| 6 | 11-17-92 | ISSUED AS-BUILT FOR DCR-SPN-93-053 | BT | DC | LM | WM | 10 | 03-08-93 | ISSUED AS-BUILT FOR DCR-SPN-93-075 | LSM | INTL | S | CH |
| 5 | 12-16-93 | ISSUED AS-BUILT FOR PC/M 93-054 | RM | RY | UK | WM | 9 | 1-16-91 | DESIGN CHECKED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED IN-0 THE FPL ONG SYSTEM FOR DCR-SPN-90-512 | TAM | NO | UK | NAR |
| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |



FPL

TURKEY POINT NUCLEAR UNIT 3

P & ID

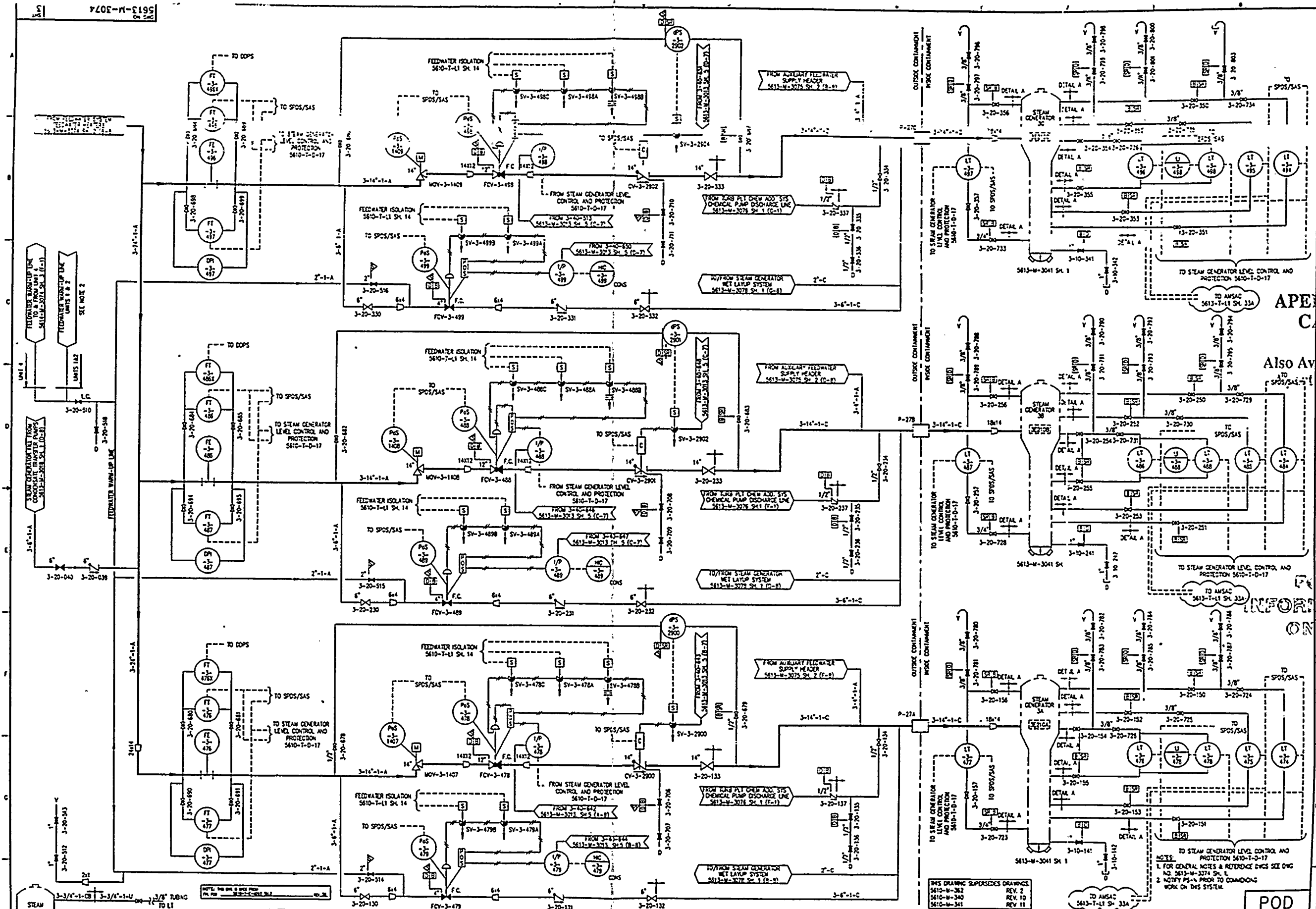
MAIN STEAM SYSTEM

STONE & WEBSTER ENGINEERING CORP
FT. LAUDERDALE, FLORIDA

| | |
|----------------|-----|
| DRAWING NUMBER | SYS |
| 5613-M-3072 | 072 |
| SHEET 1 | REV |
| | 15 |

02016-0987

02016-0987



| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|--|-----|-----|-----|-----|----------|--|-----|-----|-----|
| 7 | 3-8-83 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | KT | | | 2 | 3-17-82 | THIS DRAWING SUPERSEDES DWS 5610-M-340 & 5610-M-341 FOR DCR-TPM-91-332 ISSUED AS-BUILT FOR DCR-TPM-91-426 & DCR-TPM-91-532 | MCW | | |
| 6 | 2-10-83 | ISSUED AS-BUILT FOR DCR-TPM-92-392, TPM-91-263 & PC/M/S 92-090 | TAM | | | | | | | | |
| 5 | 8-18-83 | ISSUED AS-BUILT FOR PC/M 89-542 | CH | SV | URS | 10 | 09-20-83 | ISSUED AS-BUILT FOR DCR-TPM-93-329 | SW | MS | LK |
| 4 | 8-18-83 | ISSUED AS-BUILT FOR DCR-TPC-93-220 | CH | SV | JAN | 80 | 5-14-81 | THIS DWS CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | RSH | NO | PC |
| 3 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-148 FINAL | SP | CH | RFR | | | AND ISSUED INTO THE FPL DWS SYSTEM FOR DCR-TPM-91-133 | | | |

SI
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POD

| | | | |
|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 3 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P & ID | | DWS NUMBER | |
| FEEDWATER SYSTEM | | 5613-M-3074 | |
| | | REV. 10 | |
| | | REV. 11 | |



NOTES

1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5613-N-3674 SM.
2. DELETED
3. PORTABLE ROSE CONNECTION TO BE USED WHEN BLOWDOWN TANK IS TO BE DRAINED TO THE WASTE HOLD-UP TANK.
4. CONTAINMENT ISOLATION VALVE CV-3-5275A, B & C WILL FAIL AS-IS UPON LOSS OF INSTRUMENT AIR ONLY AND FAIL CLOSED UPON LOSS OF POWER.
5. THE DUMP VALVE TO THE DISCHARGE CANAL (LCV-6265B) IS SHOWN AS A NORMALLY OPEN VALVE. THIS VALVE IS CONTROLLED BY 15-LESSER AND WILL BE NORMALLY CLOSED DURING 15 OR LESS BLOWDOWN AND WILL BE OPEN FOR GREATER THAN 15 BLOWDOWN. MS-5255B (NPS) IN THE OPEN POSITION ALLOWS LC-4265B TO DICTATE VALVE POSITION. IF IN THE CLOSED POSITION IT WILL OVERRIDE LC-4265B AND CLOSE THE VALVE.

THIS DRAWING SUPERSEDES DRAWINGS
5610-M-316 REV. 15
5610-M-341 REV. 11


NOTE: THIS DIG IS MADE FROM
FPL POC 3410-T-(4062) SM. 4 REV. 21

POD

TURKEY POINT NUCLEAR UNIT 3

410

FEEDWATER SYSTEM
STEAM GENERATOR
BLOWDOWN RECOVERY

| | |
|--|--------------------------|
|  STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| DRAWING NUMBER
5613-M-3074 | STS
074 |
| SHEET 4 | REV
8 |

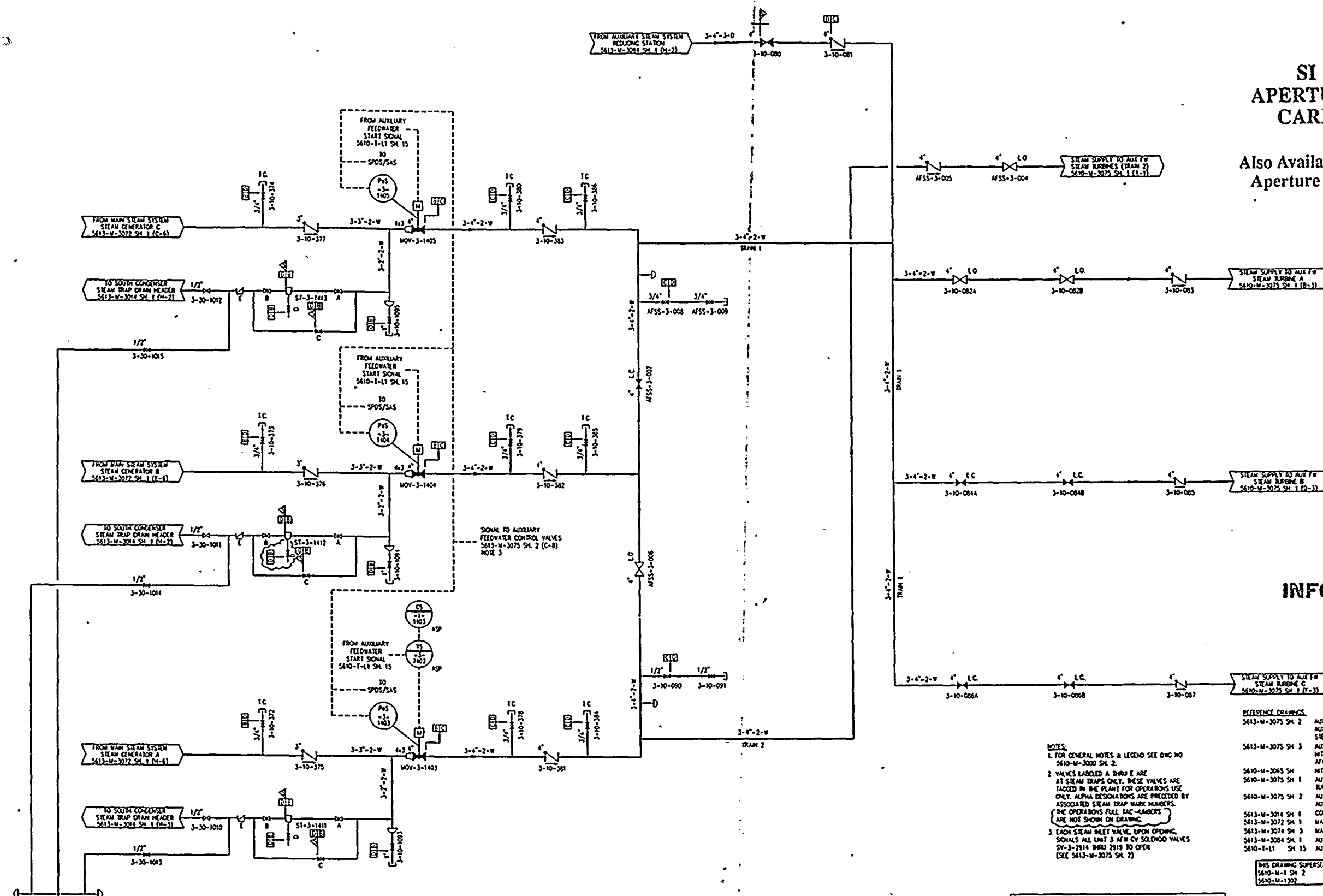
| | | | | | | | | | | | | | | | | | | | | |
|-----|----------|--|-----|----|-----|-----|-----|---------|---|----|----|-----|-----|-----|------|----------|----|----|-----|-----|
| 8 | 1-25-93 | ISSUED AS-BUILT FOR DOR-TPM-93-308. | SMH | NO | UK | JPM | 2 | 7-9-92 | ISSUED AS-BUILT FOR DOR-TPM-92-07A. | | | | | | | | | | | |
| 7 | 04-03-93 | ISSUED AS-BUILT FOR PC/M/ 93-148 & 93-022 AND DOR-TPM-93-133. | DO | OR | UK | JPM | 1 | 3-17-92 | ISS DRAMING SUPPLEMENTS DWG 5610-M-1316 FOR DOR-TPM-91-137 & 5610-M-1317 FOR DOR-TPM-91-532. ISSUED AS-BUILT FOR DOR-TPM-91-249 & | | | | | | | | | | | |
| 6 | 3-5-93 | ISSUED AS-BUILT FOR DOR-TPM-93-075. | KT | | | | | | | | | | | | | | | | | |
| 5 | 7-10-93 | ISSUED AS-BUILT FOR PC/M/ 92-090 & 92-115, AND DOR-TPM-91-60C. | SP | | | | | | | | | | | | | | | | | |
| 4 | 12-22-92 | ISSUED AS-BUILT FOR PC/M/ 89-542 AND DOR-TPM-92-215. | GPH | | | | | | | | | | | | | | | | | |
| 3 | 8-5-92 | ISSUED AS-BUILT FOR DOR-TPM-92-031. | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |

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- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DNG NO 5610-M-3000 SH 2.
 2. VALVES LABELED A THRU E ARE AT STEAM TRAPS ONLY. THESE VALVES ARE TAGGED IN THE PLANT FOR OPERATIONS USE ONLY. ALPHA DESIGNATIONS ARE PRECEDED BY ASSOCIATED STEAM TRAP MARK NUMBERS.
 3. EACH STEAM TRAP VALVE UPON OPENING, SIGNALS ALL UNIT 3 AFW CY SOLENOID VALVES SY-3-2914 THRU 2919 TO OPEN (SEE 5613-M-3075 SH 2).

| REFERENCE DRAWINGS | |
|--------------------|--|
| 5613-M-3075 SH 2 | AUXILIARY FEEDWATER SYSTEM |
| 5613-M-3075 SH 3 | AUXILIARY FEEDWATER TO STEAM GENERATORS |
| 5610-M-3065 SH 1 | AUXILIARY FEEDWATER SYSTEM NITROGEN SUPPLY TO AFW CONTROL VALVES |
| 5610-M-3075 SH 1 | NITROGEN & HYDROGEN SYSTEMS |
| 5610-M-3075 SH 2 | AUXILIARY FEEDWATER SYSTEM TURBINE DRIVE FOR AFW PUMPS |
| 5613-M-3014 SH 1 | AUXILIARY FEEDWATER PUMPS |
| 5613-M-3072 SH 1 | CONDENSER SYSTEM |
| 5613-M-3074 SH 3 | MAIN STEAM SYSTEM |
| 5613-M-3084 SH 1 | MAIN FEEDWATER SYSTEM |
| 5610-T-11 SH 15 | AUXILIARY STEAM SYSTEM |
| 5610-T-11 SH 15 | AUXILIARY FEEDWATER PUMP START |

DWG DRAWING SUPERSEDES DRAWINGS
5610-M-1 SH 2 REV 5
5610-M-1302 REV 5

NOTE: THIS DNG IS MADE FROM
FPL PCD 5610-T-1-2001 SH 4 REV 20.

POD

| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|---|----|-----|-----|-----|---------|---|----|-----|-----|
| 6 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 93-054 | DO | AB | LK | 1 | 7-9-92 | ISSUED AS-BUILT FOR DCR-IPM-97-030 | DO | AB | LK |
| 5 | 06-08-93 | ISSUED AS-BUILT FOR DCR-IPM-93-242 | DO | AB | LK | 2 | 2-20-92 | DWS DRAWING SUPERSEDES DNG 5610-M-1 SH 2 FOR DCR-IPM-91-249 AND 5610-M-1302 FOR DCR-IPM-91-137 ISSUED AS-BUILT FOR DCR-IPM-91-249 | DO | AB | LK |
| 4 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-046 | DO | CH | LK | 3 | 5-14-91 | DWS DNG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE | DO | CH | LK |
| 3 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-342, DCR-IPM-92-215 | DO | CH | LK | 4 | | AND ISSUED INTO THE FPL DNG SYSTEM PER DCR-IPM-91-137. | DO | CH | LK |



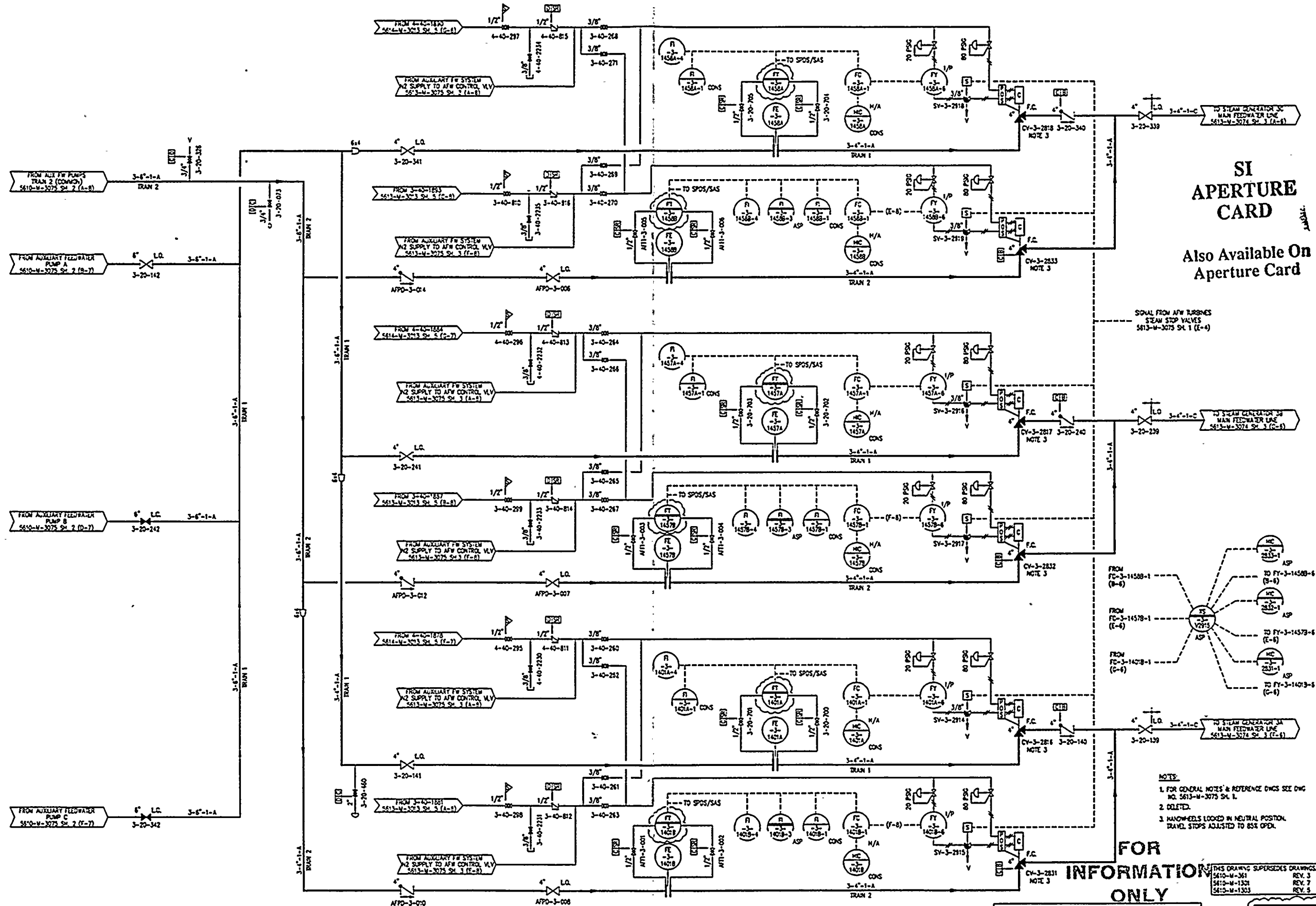
TURKEY POINT NUCLEAR UNIT 3
P 110
AUXILIARY FEEDWATER SYSTEM
STEAM TO AUXILIARY FEEDWATER
PUMP TURBINES

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3075
SHEET 1

SYS
075
REV
6

9401260331-41

1980-1981



FOR
INFORMATION
ONLY

- NOTES:
- 1. FOR GENERAL NOTES & REFERENCE DWS SEE DWS NO. 5613-M-3075 SH. 1.
 - 2. DELETED.
 - 3. HANDWHEELS LOCKED IN NEUTRAL POSITION. TRAVEL STOPS ADJUSTED TO 85% OPEN.

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-361 REV. 3
5610-M-1350 REV. 7
5613-M-1303 REV. 5

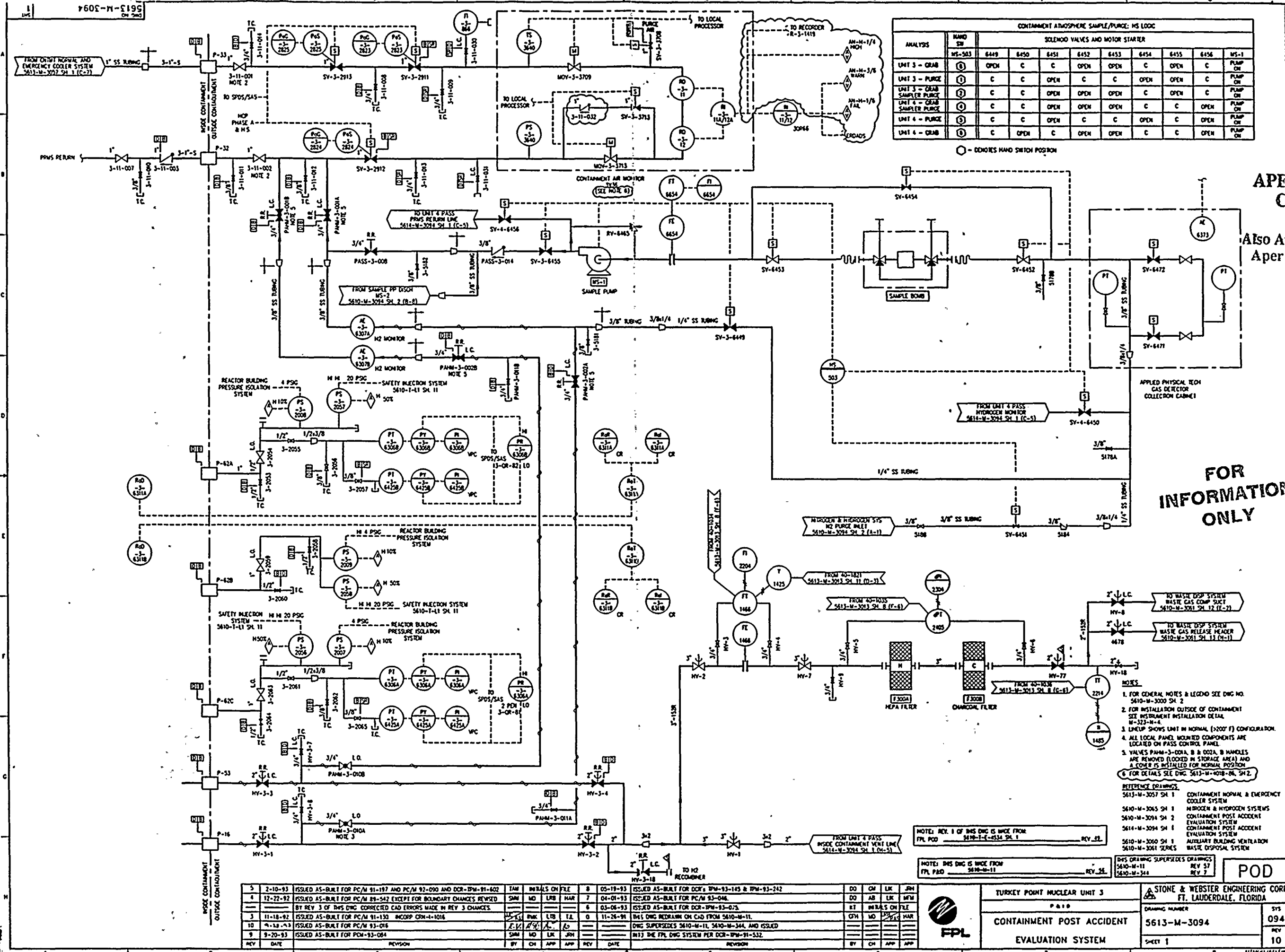
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|-----|----------|--|-----|----|-----|-----|-----|--|--|----|-----|-----|-----|
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002 FINAL | SP | CM | LK | MM | 2 | 7-9-92 | ISSUED AS-BUILT FOR DCR-TPW-92-030 | MM | ALU | LTB | IL |
| 5 | 03-05-93 | ISSUED AS-BUILT FOR DCR-TPW-93-075 | SP | CM | LK | MM | 1 | 3-4-92 | THIS DRAWING SUPERSEDES DWS 5610-M-1307 & 5610-M-1323 FOR | MM | ALU | LTB | FTH |
| 4 | 2-7-93 | ISSUED AS-BUILT FOR PC/M 92-030 | SP | CM | LK | MM | 0 | 03-01-92 | DCR-TPW-91-137 AND DWS 5610-M-361 FOR DCR-TPW-91-532 | MM | ALU | LTB | FTH |
| 3 | 12-12-92 | ISSUED AS-BUILT FOR PC/M 92-542 AND DCR-TPW-92-215 | TAM | CM | LK | MM | 0 | 5-16-91 | THIS DWS CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE | MM | ALU | LTB | FTH |
| | | | | | | | | AND ISSUED INTO THE FPL DWS SYSTEM FOR DCR-TPW-91-137. | | | | | |



| | | | |
|--|--|--|-------------|
| TURKEY POINT NUCLEAR UNIT 3 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| PAID | | DRAWING NUMBER | 5613-M-3075 |
| AUXILIARY FEEDWATER SYSTEM
AUXILIARY FEEDWATER TO
STEAM GENERATORS | | REV. 2 | 075 |
| | | | 6 |

940.1260331-42

576481082



| | | | | | | | | | | | | |
|-----|----------|---|-----|------------------|-----|----------|---|----------|--|-----|----|-----|
| 3 | 2-10-93 | ISSUED AS-BUILT FOR PC/M 91-197 AND PC/M 92-090 AND DCR-IPM-91-602 | TAM | INITIALS ON FILE | 8 | 05-19-93 | ISSUED AS-BUILT FOR DCR-IPM-93-145 & IPM-93-242 | DO | CM | UK | JH | |
| 4 | 12-22-92 | ISSUED AS-BUILT FOR PC/M 89-542 EXCEPT FOR BOUNDARY CHANGES REVISED | SMI | MO | LFB | MAR | 7 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-046 | DO | AB | UK |
| | | BY REV 3 OF THIS DMC CORRECTED CAD ERRORS MADE IN REV 3 CHANGES | | | | | 6 | 03-06-93 | ISSUED AS-BUILT FOR DCR-IPM-93-073 | KT | MB | UK |
| 3 | 11-18-92 | ISSUED AS-BUILT FOR PC/M 91-130 INCORP CDM-4-1016 | SMI | MO | LFB | T.A. | 0 | 11-26-91 | DMS DMC REDRAWN ON CAD FROM 5610-M-11 | OTH | MO | UK |
| 10 | 9-18-93 | ISSUED AS-BUILT FOR PC/M 93-016 | SMI | MO | LFB | | | | DMS SUPERSEDES 5610-M-11, 5610-M-344, AND ISSUED | | | |
| 9 | 9-20-93 | ISSUED AS-BUILT FOR PC/M 93-084 | SMI | MO | LFB | | | | INT) THE FPL DMC SYSTEM PER DCR-IPM-91-532 | | | |
| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP |

NOTE: REV. 1 OF THIS DMC IS MADE FROM FPL PCD 5610-T-1-4334 SH. 1

NOTE: THIS DMC IS MADE FROM FPL PCD 5610-M-11

THIS DRAWING SUPERSEDES DRAWINGS 5610-M-11 REV 57 5610-M-344 REV 7

POD

TURKEY POINT NUCLEAR UNIT 3
CONTAINMENT POST ACCIDENT
EVALUATION SYSTEM

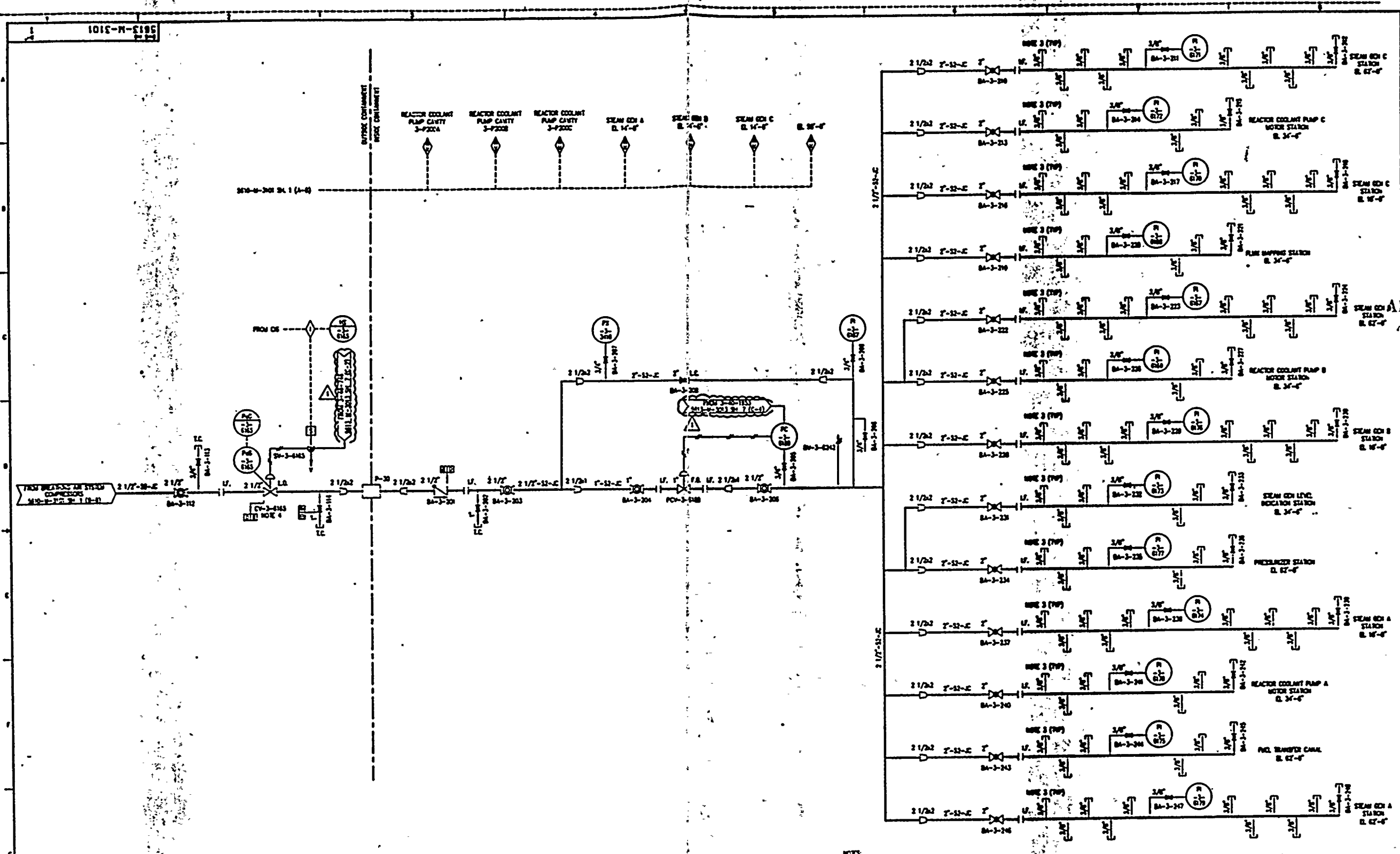
STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5613-M-3094
SHEET 1

REV 094
REV 10

9401260381-43

1988

1988



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4. HAND LOCKED OPEN ONLY WHEN PLANT IS SHUTDOWN AND COOLANT (OR AIR) IS USED TO COOL CONTAINMENT. VALVE WILL FAIL TO OPEN UPON LOSS OF AIR TRIP. AIR TRIP CHECK VALVE USED, NO. 8-40-1 (A) TO VALVE ACTUATOR. PNEUMATIC CIRCUIT FOR PCV/M NO. 8-12-1/1.

5. VALVE POSING IS SHOWN ON THIS DRAWING ARE FOR NORMAL POSITION OF THE BREATHING AIR SYSTEM AND TO NOT REPRESENT VALVE POSITION MAINTAINED IN THIS NORMAL PLANT OPERATION.

NOTES

1. FOR GENERAL NOTES & LEGEND SEE SHEET NO. 5613-M-3101 SH. 1

2. TYPICAL CONNECTION SHALL CONSIST OF A 3/4" QUICK DISCONNECT COUPLING. THE COUPLING SHALL HAVE ONE-WAY SHUT-OFF, SHOCKING NON-INTERCHANGEABLE CONNECTION, EXCESS FLOW SHUT-OFF DEVICE, AND RELEASE DEVICE TO SEPARATE VALVE. PROVIDE DUST CLIPS FOR COUPLER AND HANDLE. HOSE WILL BE 3/4" I.D.

BREATHING AIR SYSTEM - CONTINUED

FOR
INFORMATION

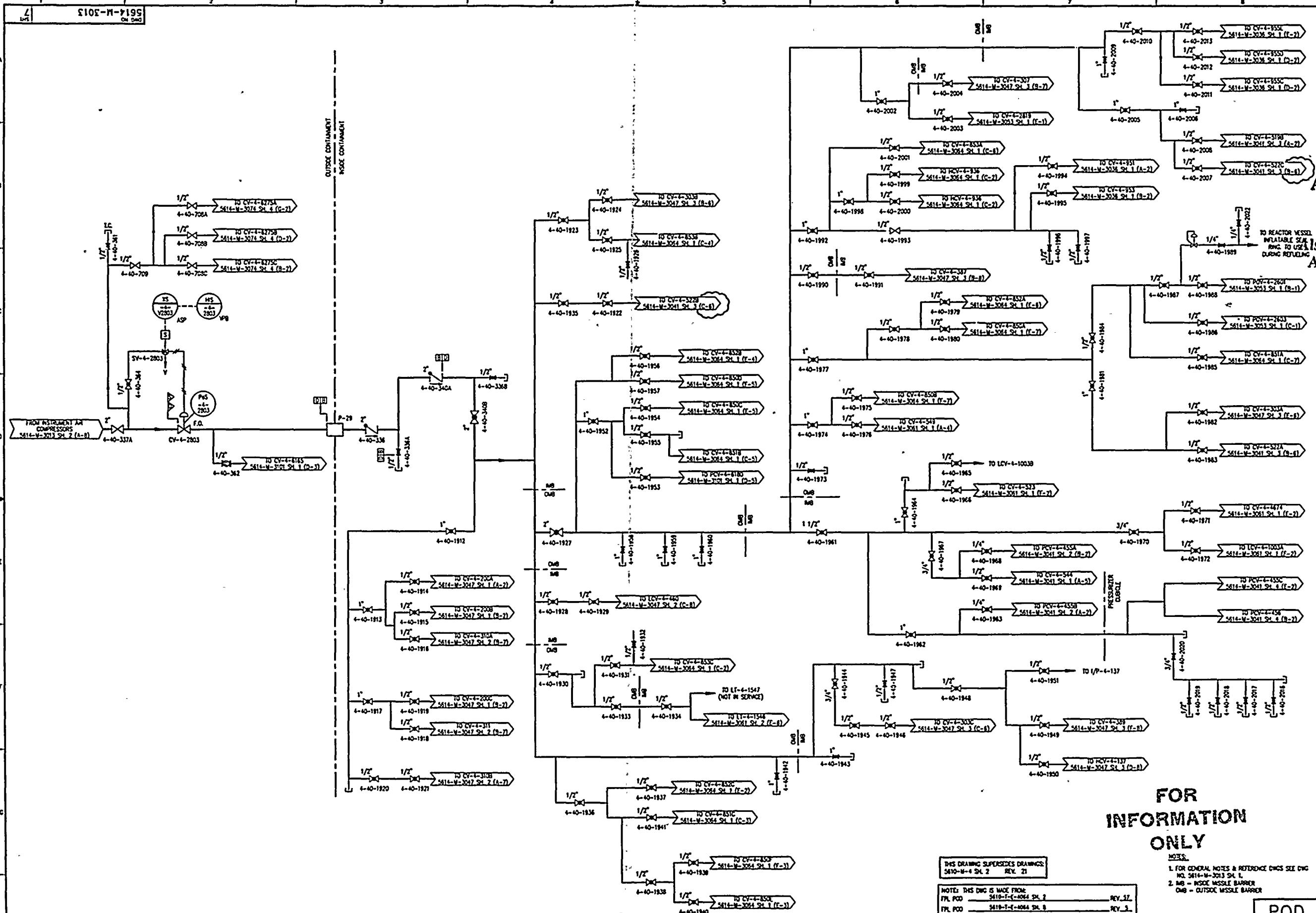
NOTE: THE DUC IS MADE FROM
PPL PCB 34-2-1117 SH. 1

| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE | REVISION | BY | CHK | APP | APP |
|-----|--------|---|----|-----|-----|-----|-----|--------|---|----|-----|-----|-----|
| 1 | 2-7-72 | DESIGN AS-BUILT FOR PCV/M 82-004 | | | | | 1 | 2-7-72 | DESIGN AS-BUILT FOR PCV/M 82-004 | | | | |
| 2 | 3-3-72 | THIS DUC CREATED FOR THE P.O.D. RECONSTRUCTION PROJECT SCOPE AND BUILT INTO THE PPL DUC SYSTEM FOR 804-PW-82-137. | | | | | 2 | 3-3-72 | THIS DUC CREATED FOR THE P.O.D. RECONSTRUCTION PROJECT SCOPE AND BUILT INTO THE PPL DUC SYSTEM FOR 804-PW-82-137. | | | | |

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|-----------------------------|--|---|--|
| TURKEY POINT NUCLEAR UNIT 3 | | A. STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P.O.D. | | DRAWING NUMBER | |
| BREATHING AIR SYSTEM | | 5613-M-3101 | |
| DISTRIBUTION | | SHEET 1 | |
| | | REV. 1 | |

9401260331-44

1988-1989



SI
APERTURE
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- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE Dwg NO. 5614-M-3013 SH. 1.
 2. MB - INSIDE MISSILE BARRIER
 - OMB - OUTSIDE MISSILE BARRIER

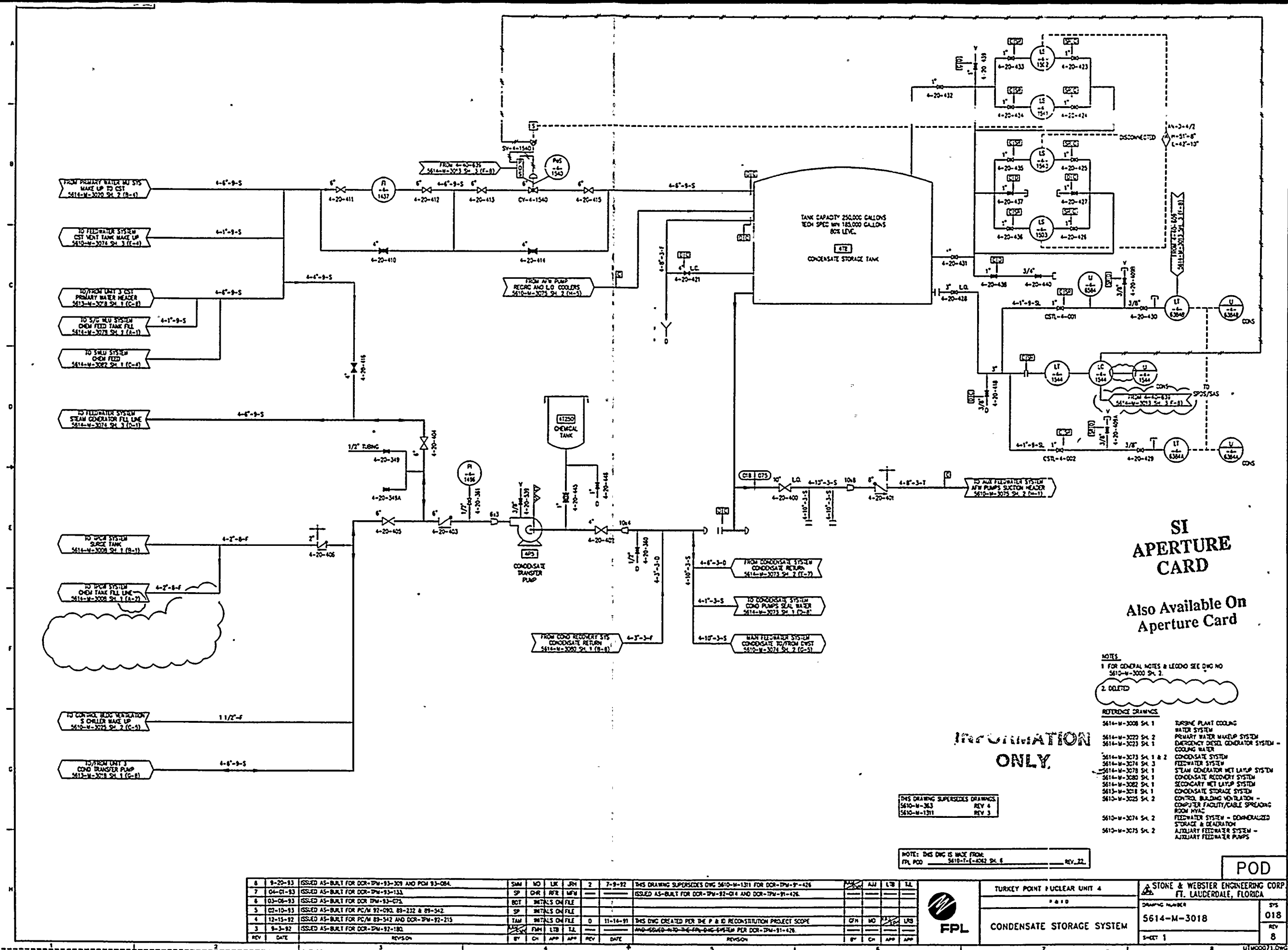
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| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |
|-----|----------|--|----|----|-----|-----|-----|----------|--|----|----|-----|-----|
| 1 | 03-05-83 | ISSUED AS-BUILT FOR COR-TPM-83-075 | | | | | 1 | 03-05-83 | ISSUED AS-BUILT FOR COR-TPM-83-075 | | | | |
| 2 | 12-17-82 | THIS Dwg CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | | | | | 2 | 12-17-82 | THIS Dwg CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | | | | |
| 3 | | SUPERSEDES 5610-M-4 SH. 2 AND ISSUED AS-BUILT INTO THE FPL Dwg | | | | | 3 | | SUPERSEDES 5610-M-4 SH. 2 AND ISSUED AS-BUILT INTO THE FPL Dwg | | | | |
| 4 | | SYSTEM FOR PC/M 82-080 | | | | | 4 | | SYSTEM FOR PC/M 82-080 | | | | |

| | | | |
|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| INSTRUMENT AIR SYSTEM | | DRAWING NUMBER
5614-M-3013 | |
| INSIDE CONTAINMENT | | SHEET 7 | |
| FPL | | SYS
013
REV
2 | |

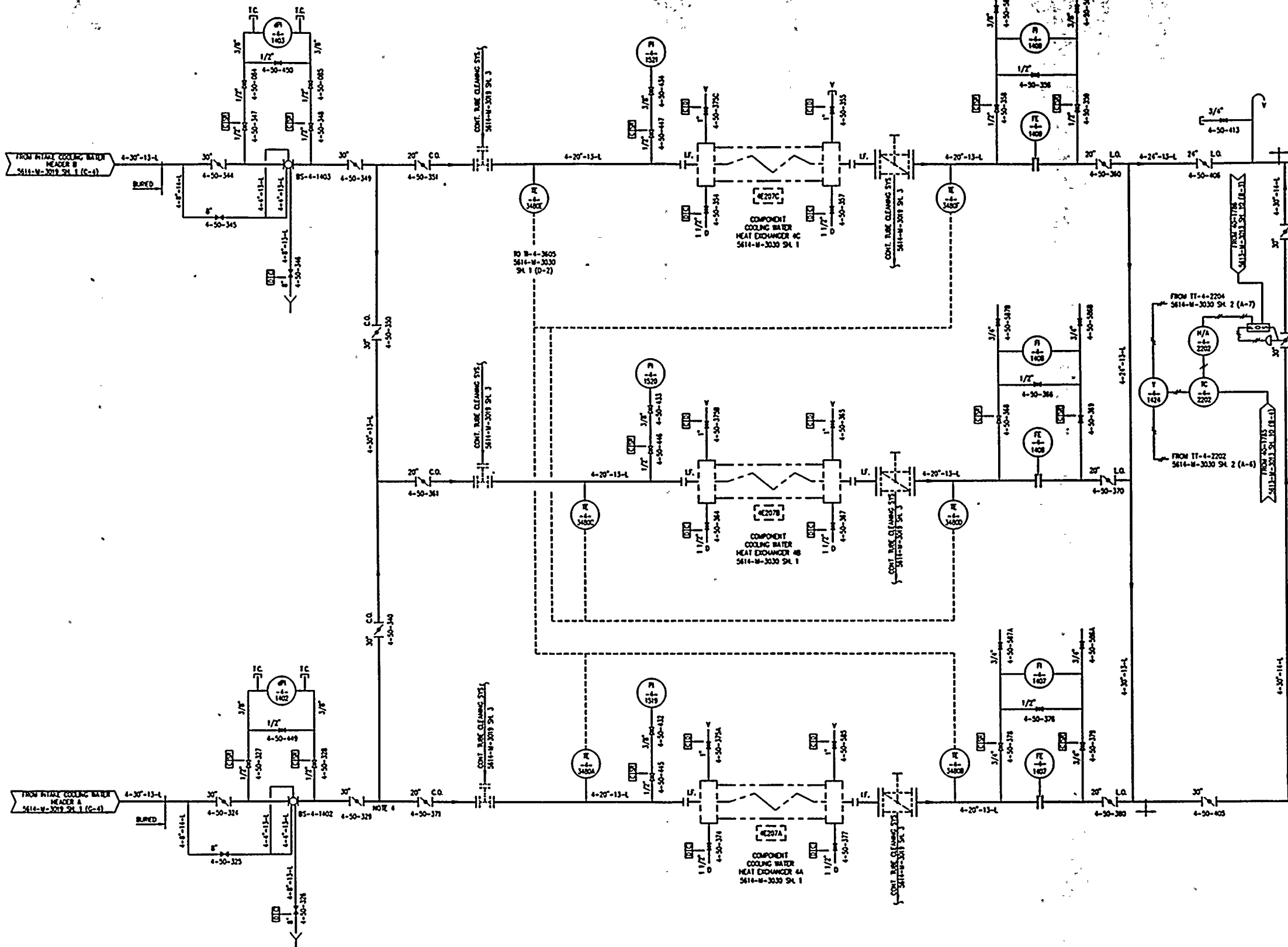
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SI APERTURE CARD

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INFORMATION
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- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWS SEE DWG NO. 5614-M-3019 SH 1
 2. COILED.
 3. ALL PIPING IS QUALITY GROUP ☐ UNLESS OTHERWISE NOTED.
 4. LINE SIZE TRANSITIONS AT MAJOR TEES ARE PROVIDED BY REDUCING TEES IN SIZES INDICATED BY PIPE LINE SPECIFICATIONS.

| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|--|----|-----|-----|-----|---------|---|----|-----|-----|
| 1 | 9/17/81 | ISSUED AS-BUILT FOR PC/M 92-116 | SP | CHK | LR | 1 | 9-1-82 | ISSUED AS-BUILT FOR DCR-IPM-92-180 | SP | CHK | LR |
| 2 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 93-050 AND PC/M 93-046 | SP | CHK | LR | 2 | 6/1/82 | ISSUED AS-BUILT FOR PC/M 89-452 | SP | CHK | LR |
| 3 | 03-06-83 | ISSUED AS-BUILT FOR DCR-IPM-93-073 | SP | CHK | LR | 3 | 5/2/81 | ISSUED AS-BUILT FOR DCR-IPM-90-541 TO CORRECT UNIT NUMBER, ADD | SP | CHK | LR |
| 4 | 2-7-83 | ISSUED AS-BUILT FOR PC/M 92-090 | SP | CHK | LR | 4 | | REFERENCE DRAWINGS, AND ISSUED INTO THE FPL SYSTEM FOR DCR-IPM-90-541 | SP | CHK | LR |
| 5 | 12-21-82 | ISSUED AS-BUILT FOR PC/M 89-542 AND DCR-IPM-92-213 | SP | CHK | LR | 5 | 1/27/81 | DWS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | SP | CHK | LR |
| 6 | 11-5-82 | ISSUED AS-BUILT FOR DCR-IPM-92-031 | SP | CHK | LR | 6 | | AND ISSUED-IPM-92-031-DWS-SYSTEM FOR DCR-IPM-90-541 | SP | CHK | LR |

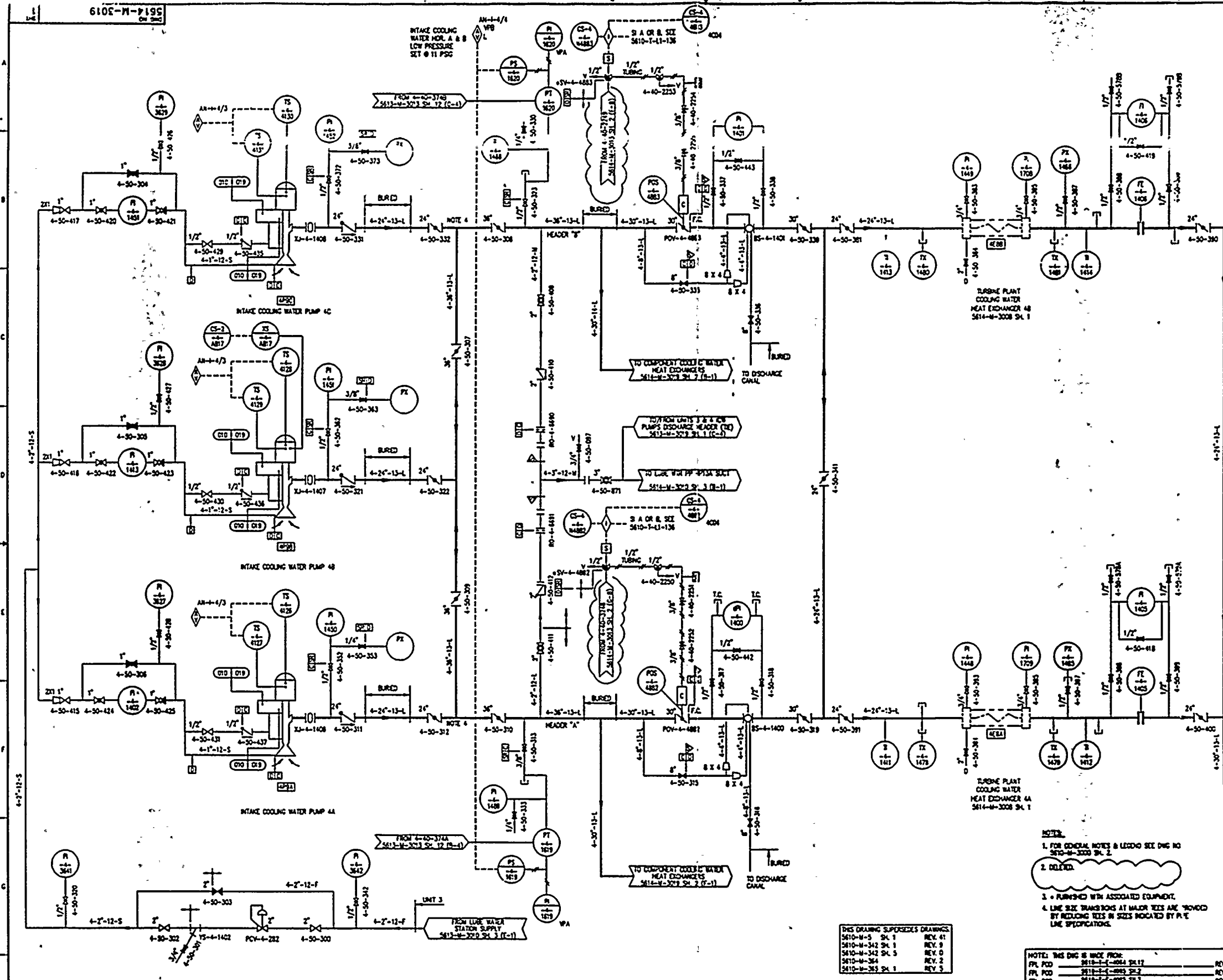


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|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P. 110 | | DRAWING NUMBER | |
| INTAKE COOLING WATER SYSTEM | | 5614-M-3019 | |
| SHEET 2 | | REV 9 | |

POD

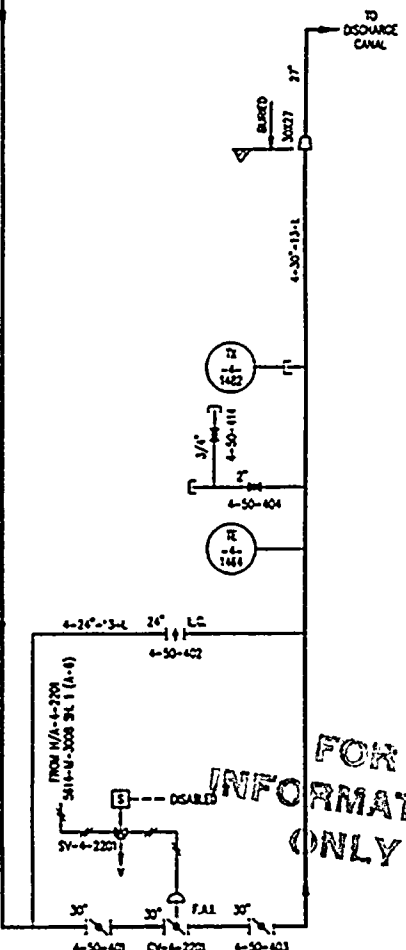
9401260381-47

135331049



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- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
 2. DELTA.
 3. * FURNISHED WITH ASSOCIATED EQUIPMENT.
 4. LINE SIZE TRANSITIONS AT MAJOR TEES ARE PROVIDED BY INCLUDING TEES IN SIZES INDICATED BY P & E LINE SPECIFICATIONS.

THIS DRAWING SUPERSEDES DRAWINGS:

| | |
|------------|---------|
| 5610-M-5 | REV. 01 |
| 5610-M-342 | REV. 0 |
| 5610-M-342 | REV. 0 |
| 5610-M-34 | REV. 2 |
| 5610-M-35 | REV. 3 |

- REFERENCE DRAWINGS:
- 5610-M-3002 SH. 1 SERVICE WATER SYSTEM
 - 5610-M-3009 SH. 2 INTAKE COOLING WATER SYSTEM
 - 5610-M-3010 SH. 3 INTAKE COOLING WATER SYSTEM - TURBINE PLANT COOLING WATER SYSTEM
 - 5610-M-3008 SH. 1 TURBINE PLANT COOLING WATER SYSTEM
 - 5610-M-3000 SH. 1 COMPONENT COOLING WATER SYSTEM
 - 5610-T-13 SH. 136 DISCHARGE PUMP-4-4222 CHANNEL A
 - 5610-M-3000 SH. 1 DISCHARGE PUMP-4-4222 CHANNEL B

| | | | | | | | | | |
|-----|----------|---|-----|--------|-----|------|------|----------|---|
| 8 | 03-06-83 | ISSUED AS-BUILT FOR DCR-PM-93-072. | LSM | INTALS | OK | FILE | 12 | 7-29-83 | ISSUED AS-BUILT FOR PCN 89-344 & INCORPORATED CRN W-5653. |
| 7 | 2-7-83 | ISSUED AS-BUILT FOR PC/M 82-090. | SP | INTALS | OK | FILE | 11 | 06-08-83 | ISSUED AS-BUILT FOR DCR-PM-93-042. |
| 6 | 12-21-82 | ISSUED AS-BUILT FOR PC/M 89-342 AND CRN-W-5567. | SHM | INTALS | OK | FILE | 10 | 04-19-83 | INCORP. CRN-W-5796 FOR DCR-PM-93-023 & CRN-W-5796 FOR PCN 93-046. |
| 5 | 9-10-82 | ISSUED AS-BUILT FOR DCR-PM-92-0084 AND DCR-PM-92-180. | ALU | ASJ | LTR | T.L. | 9 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-023 & 93-046. |
| 4 | 8-20-82 | ISSUED AS-BUILT FOR PC/M 93-084. | SHM | MD | LYB | MPH | 8 | 1-25-83 | THIS Dwg CREATED FOR THE P & E RECONSTRUCTION PROJECT SCOPE |
| 3 | 8-16-82 | ISSUED AS-BUILT FOR PC/M 89-180 & RECON. CRN W-5697. | RY | RY | JAN | BD | 7 | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-PM-90-341. |
| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | |

| | | | |
|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P & E | | Drawing Number
5614-M-3019 | |
| INTAKE COOLING WATER SYSTEM | | Sheet
1 | |
| FPL | | POD | |

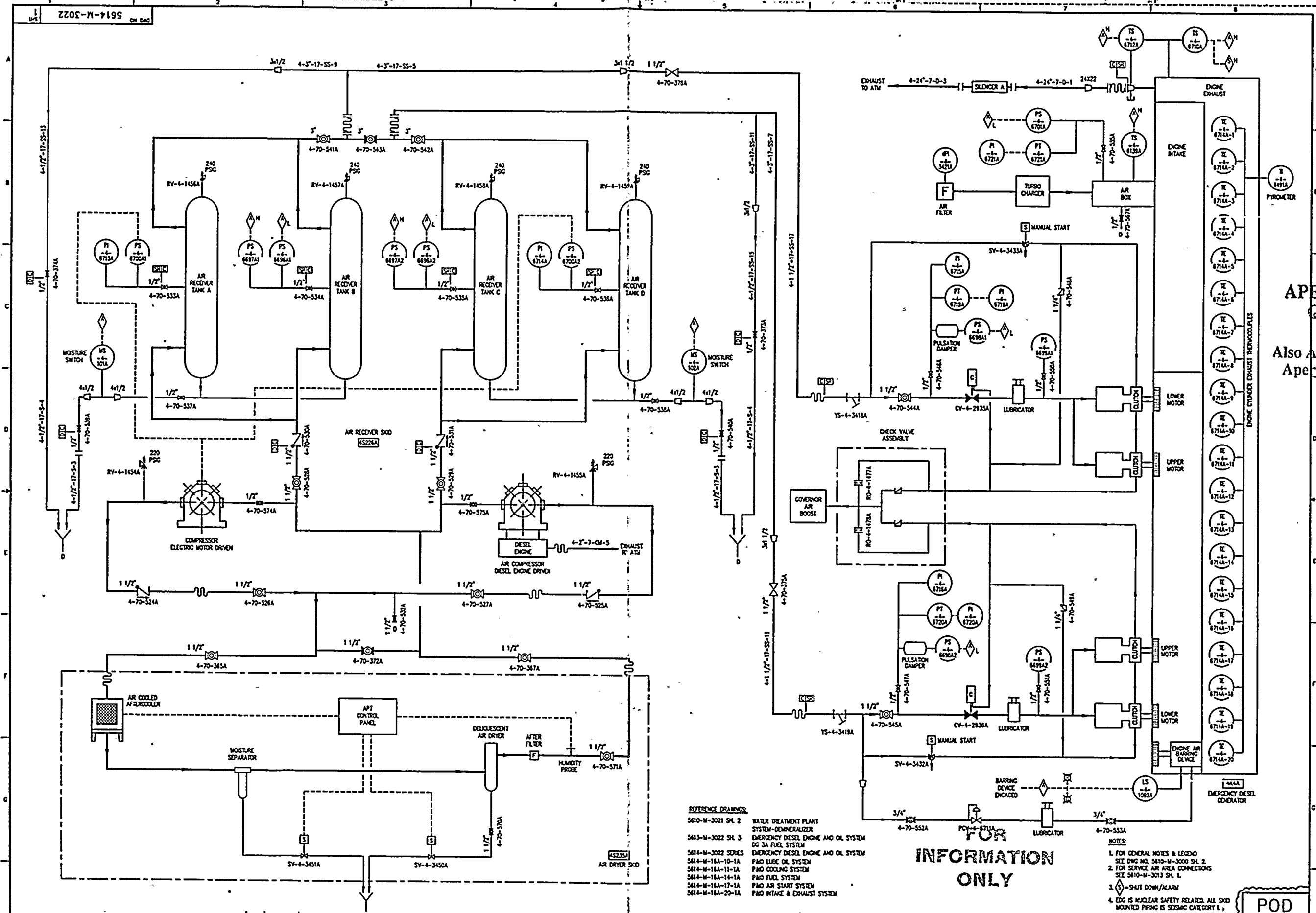
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NOTES
1 FOR GENERAL NOTES & REFERENCE ENCS SEE ENC
NO 5616-W-3020 SM 1
2 DELETED

POD



NOTE: THIS DWG IS MADE FROM:

| | | |
|---------|---------------------|--------|
| FPL P&O | 5614-M-736 SH 2 | REV. 5 |
| FPL P&O | 5614-M-736 SH 4 | REV. 0 |
| FPL P&O | 5614-M-16A-17 SH 1A | REV. 1 |
| FPL P&O | 5614-M-16A-20 SH 1A | REV. 2 |

| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE |
|-----|---------|---|-----|-----|-----|-----|-----|------|
| 1 | 5-19-63 | ISSUED AS-BUILT FOR DOR-1PM-83-129 | DO | SH | ML | OTM | | |
| 0 | 3-18-83 | THIS DWG CREATED PER THE P & D RECONSTRUCTION PROJECT SCOPE | SHW | SH | ML | US | NAR | |
| | | AND ISSUED INTO THE FPL DWG SYSTEM PER DOR-1PM-83-026 | | | | | | |

- REFERENCE DRAWINGS:
- 5610-M-3021 SH 2 WATER TREATMENT PLANT SYSTEM-DEMINERALIZER
 - 5613-M-3022 SH 3 EMERGENCY DIESEL ENGINE AND OIL SYSTEM DO 3A FUEL SYSTEM
 - 5614-M-3022 SERIES EMERGENCY DIESEL ENGINE AND OIL SYSTEM
 - 5614-M-16A-10-1A P&O LUBE OIL SYSTEM
 - 5614-M-16A-11-1A P&O COOLING SYSTEM
 - 5614-M-16A-14-1A P&O FUEL SYSTEM
 - 5614-M-16A-17-1A P&O AIR START SYSTEM
 - 5614-M-16A-20-1A P&O INTAKE & EXHAUST SYSTEM

FOR INFORMATION ONLY

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH 2.
 2. FOR SERVICE AIR AREA CONNECTIONS SEE 5610-M-3013 SH 1.
 3. SHUT DOWN/ALARM
 4. EDG IS NUCLEAR SAFETY RELATED. ALL SDO MOUNTED PIPING IS SISAC CATEGORY I.

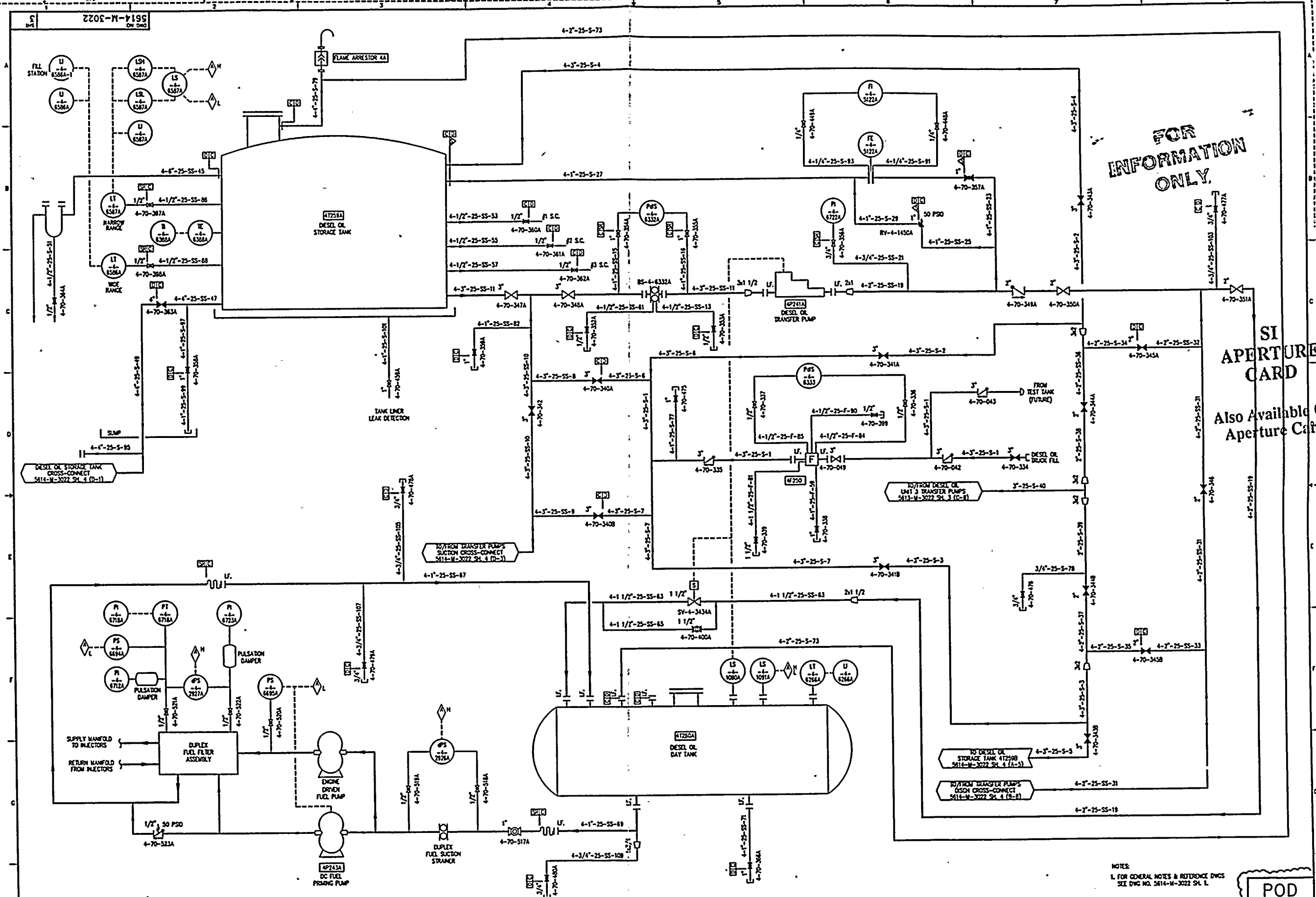
| | | | | |
|--|--|--|--|-------|
| | TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| | P&ID | | DRAWING NUMBER | SYN |
| | EMERGENCY DIESEL ENGINE AND OIL SYSTEM
EDG 4A AIR STARTING SYSTEM | | 5614-M-3022 | 022 |
| | | | SHEET 1 | REV 1 |

SI APERTURE CARD
Also Available On Aperture Card

9401260381-50



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FOR
INFORMATION
ONLY.

SI
APERTURE
CARD

Also Available On
Aperture Card

NOTE: THIS DWG IS MADE FROM:
FPL P&ID 5614-M-736 SH. 1
FPL P&ID 5614-M-736 SH. 2
FPL P&ID 5614-M-18A-14 SH. 1A

| REV | DATE | REVISION | BY | CH | APP | REV | DATE | REVISION | BY | CH | APP |
|-----|--------|--|----|----|-----|-----|------|----------|----|----|-----|
| 1 | 5-7-73 | ISSUED AS-BUILT FOR DCR-SPW-93-129 | | | | | | | | | |
| 0 | 3-8-83 | THIS DWG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE
AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-SPW-93-026. | | | | | | | | | |



TURKEY POINT NUCLEAR UNIT 4
P&ID
EMERGENCY DIESEL
ENGINE AND OIL SYSTEM
EDG 4A FUEL SYSTEM

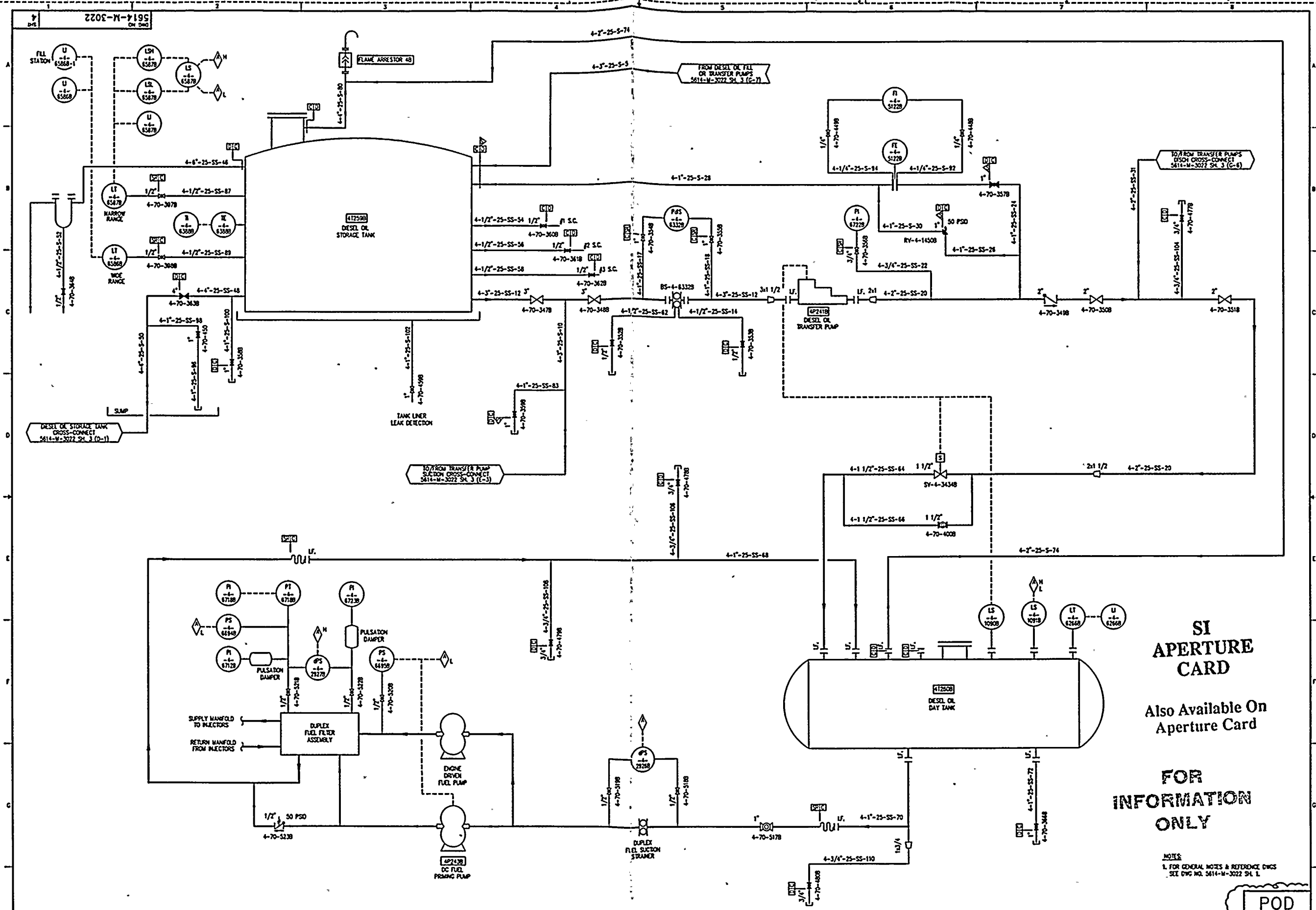
STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5614-M-3022
SHEET 3

SYS
022
REV
1

9401260331-52

0701570887



SI
APERTURE
CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

NOTE:
1. FOR GENERAL NOTES & REFERENCE DWGS
SEE DWG NO. 5614-M-3022 SH. 1.

NOTES: THIS Dwg IS MADE FROM:
FPL PDD 5614-M-736 SH. 1
FPL PDD 5614-M-736 SH. 3
FPL P&D 5614-M-16A-14 SH. 18

| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE | REVISION | BY | CHK | APP | APP |
|-----|---------|--|----|-----|-----|-----|-----|----------|---|----|-----|-----|-----|
| 2 | 5-17-83 | ISSUED AS-BUILT FOR DCR-TPW-93-129 | | | | | 1 | 04-19-83 | INCORPORATED ORN-M-5781 FOR PC/M 93-048 | | | | |
| 0 | 3-18-83 | THIS Dwg CREATED PER THE P & D RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL Dwg SYSTEM PER DCR-TPW-93-026. | | | | | | | | | | | |

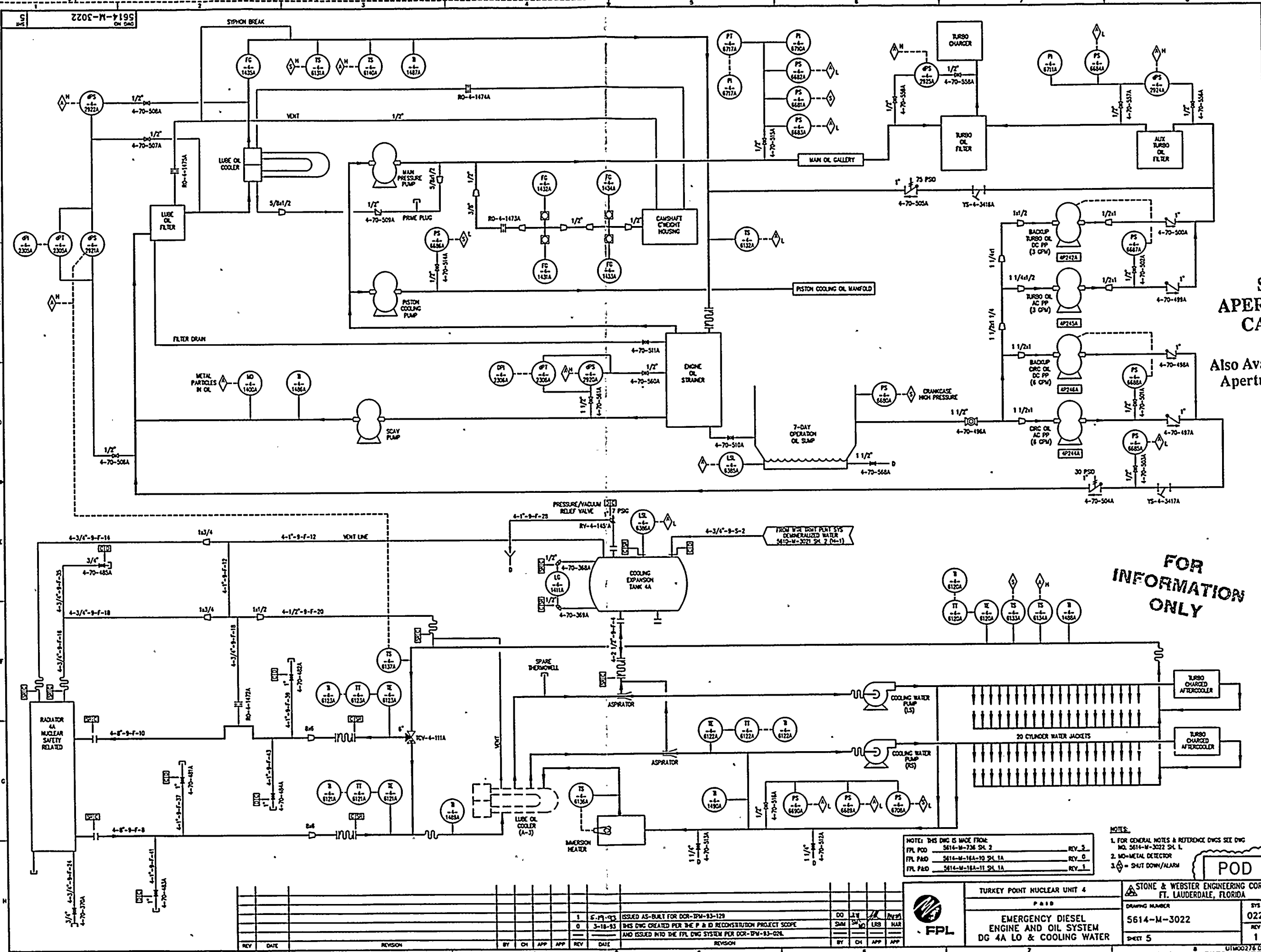


TURKEY POINT NUCLEAR UNIT 4
PAID
EMERGENCY DIESEL
ENGINE AND OIL SYSTEM
EDG 4B FUEL SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5614-M-3022
SHEET 4

POD

940.1260331-53



SI
APERTURE
CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

NOTES: THIS Dwg IS MADE FROM:
FPL P&ID 5614-M-736 SH. 2
FPL P&ID 5614-M-18A-10 SH. 1A
FPL P&ID 5614-M-18A-11 SH. 1A

REV. 3
REV. 0
REV. 1

NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE Dwg NO. 5614-M-3022 SH. 1.
2. MO-METAL DETECTOR
3. S - SHUT DOWN/ALARM

POD

TURKEY POINT NUCLEAR UNIT 4
P&ID
EMERGENCY DIESEL
ENGINE AND OIL SYSTEM
DG 4A LO & COOLING WATER

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5614-M-3022

SHEET 5

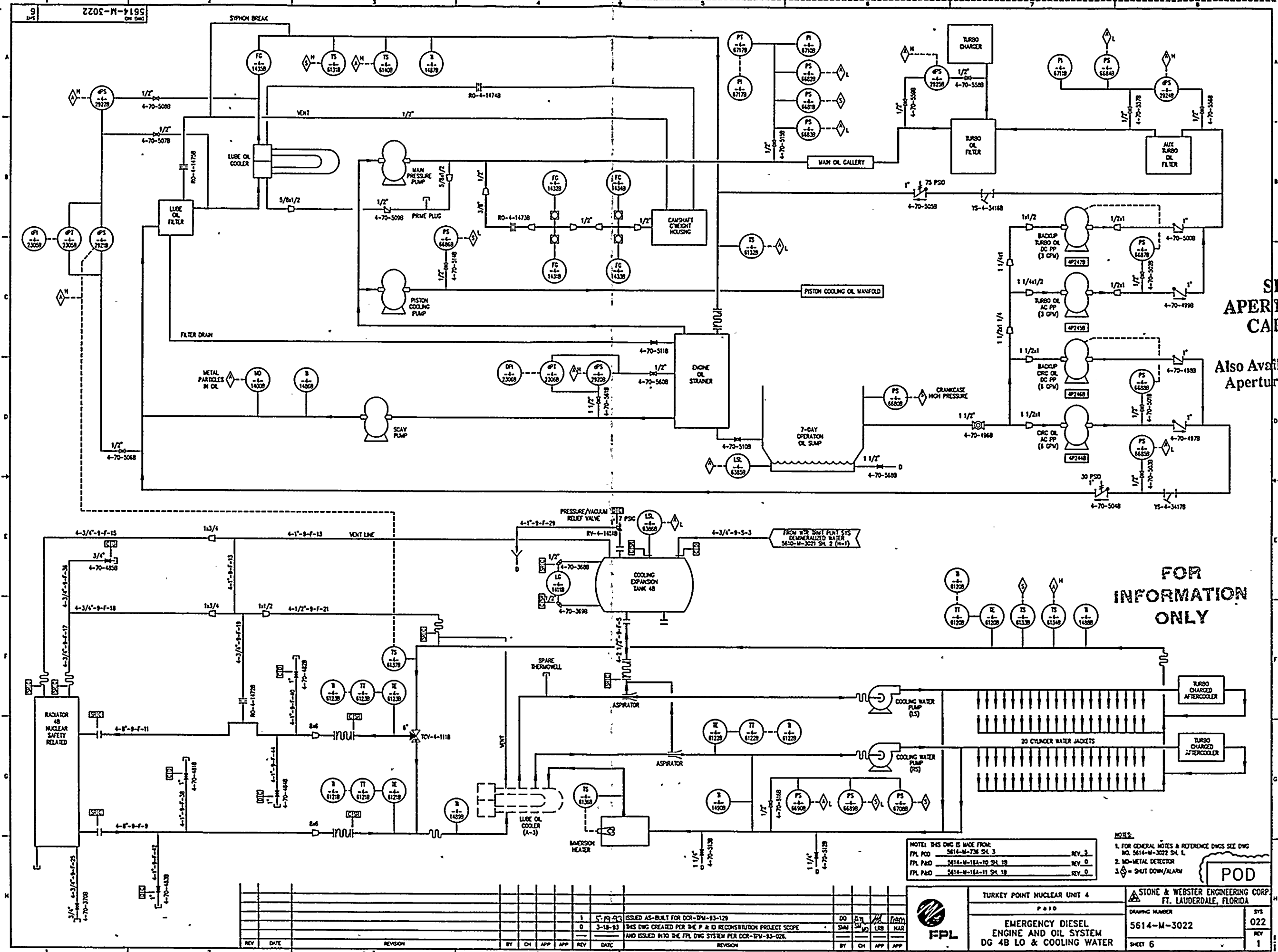
SYN
022
REV
1

| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |
|-----|---------|--|----|----|-----|-----|-----|----------|----------|----|----|-----|-----|
| 1 | 6-19-93 | ISSUED AS-BUILT FOR DCR-TPM-93-129 | | | | | DO | 12-19-93 | | | | | |
| 0 | 3-18-93 | THIS Dwg CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | | | | | SHM | 3-18-93 | | | | | |
| | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-TPM-93-024. | | | | | LIB | | | | | | |

9401260331-54

9303540841

9303540841



SI
APERTURE
CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

NOTES: THIS DWG IS MADE FROM:
FPL P&ID 5614-M-736 SH. 3
FPL P&ID 5614-M-18A-19 SH. 19
FPL P&ID 5614-M-18A-11 SH. 19

REV. 3
REV. 0
REV. 0

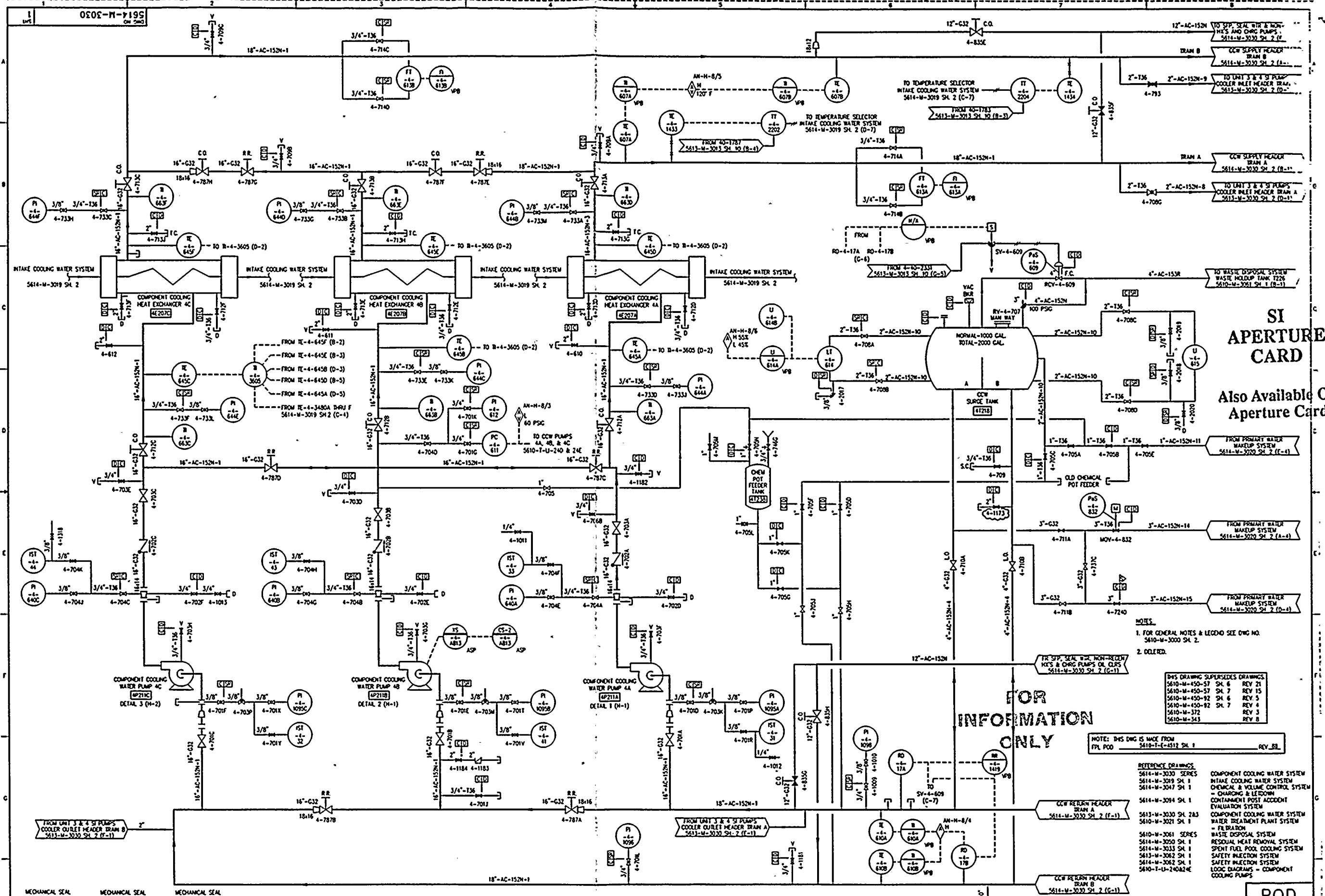
NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5614-M-3022 SH. 1.
2. NO-METAL DETECTOR
3. SHUT DOWN/ALARM

POD

| | | | |
|---|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P&ID | | DRAWING NUMBER | |
| EMERGENCY DIESEL
ENGINE AND OIL SYSTEM
DG 4B LO & COOLING WATER | | 5614-M-3022 | |
| SHEET 6 | | 022
REV 1 | |

940.1260331-55

44-38861-21



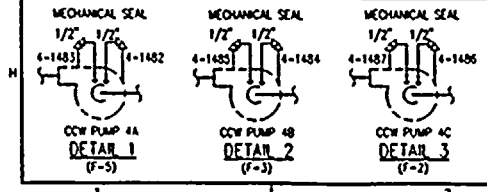
SI
APERTURE
CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5614-M-3000 SH. 2.
 2. OBTAINED.
- DWG. DRAWING SUPERSEDES DRAWINGS
- | DWG. NO. | REV. | DATE |
|---------------|-------|---------|
| 5610-M-450-57 | SH. 6 | REV. 21 |
| 5610-M-450-57 | SH. 7 | REV. 15 |
| 5610-M-450-92 | SH. 6 | REV. 5 |
| 5610-M-450-92 | SH. 7 | REV. 4 |
| 5610-M-372 | SH. 3 | REV. 3 |
| 5610-M-343 | SH. 3 | REV. 3 |
- NOTE: THIS DWG IS MADE FROM
FPL POC 5610-T-4-4512 SH. 1
- REV. 32

- REFERENCE DRAWINGS
- | DWG. NO. | REV. | DATE |
|---------------|---------|------|
| 5614-M-3030 | SERIES | |
| 5614-M-3019 | SH. 1 | |
| 5614-M-3047 | SH. 1 | |
| 5614-M-3094 | SH. 1 | |
| 5613-M-3030 | SH. 2A3 | |
| 5610-M-3021 | SH. 1 | |
| 5610-M-3061 | SERIES | |
| 5614-M-3050 | SH. 1 | |
| 5614-M-3033 | SH. 1 | |
| 5613-M-3062 | SH. 1 | |
| 5614-M-3062 | SH. 1 | |
| 5610-T-24042E | | |
- COMPONENT COOLING WATER SYSTEM
INTAKE COOLING WATER SYSTEM
CHEMICAL & VOLUME CONTROL SYSTEM
- CHARGING & LEADDOWN
CONTAMINANT POST ACCIDENT
EVALUATION SYSTEM
COMPONENT COOLING WATER SYSTEM
WATER TREATMENT PLANT SYSTEM
FILTRATION
WASTE DISPOSAL SYSTEM
RESIDUAL HEAT REMOVAL SYSTEM
SPENT FUEL POOL COOLING SYSTEM
SAFETY INJECTION SYSTEM
SAFETY INJECTION SYSTEM
LOGIC DIAGRAMS - COMPONENT
COOLING PUMPS



| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|---|----|-----|-----|-----|----------|------------------------------------|----|-----|-----|
| 6 | 03-06-93 | ISSUED AS-BUILT FOR DCR-IPW-93-075 | | | | 5 | 2-10-93 | ISSUED AS-BUILT FOR DCR-IPW-93-075 | | | |
| 5 | 2-10-93 | ISSUED AS-BUILT FOR DCR-IPW-92-400, PC/M 92-090/PC/M 89-184 | | | | 4 | 06-13-93 | ISSUED AS-BUILT FOR PC/M 93-034 | | | |
| 4 | 06-13-93 | ISSUED AS-BUILT FOR PC/M 93-034 | | | | 3 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-067 | | | |
| 3 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-067 | | | | 2 | | | | | |
| 2 | | | | | | 1 | | | | | |

| DO | IN | AS | ON | FILE |
|-----|----|-----|-----|------|
| CO | IN | AS | ON | FILE |
| TAM | IN | AS | ON | FILE |
| RWB | MO | AS | ON | FILE |
| BY | CH | APP | APP | |

TURKEY POINT NUCLEAR UNIT 4

P. 110

COMPONENT COOLING WATER SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

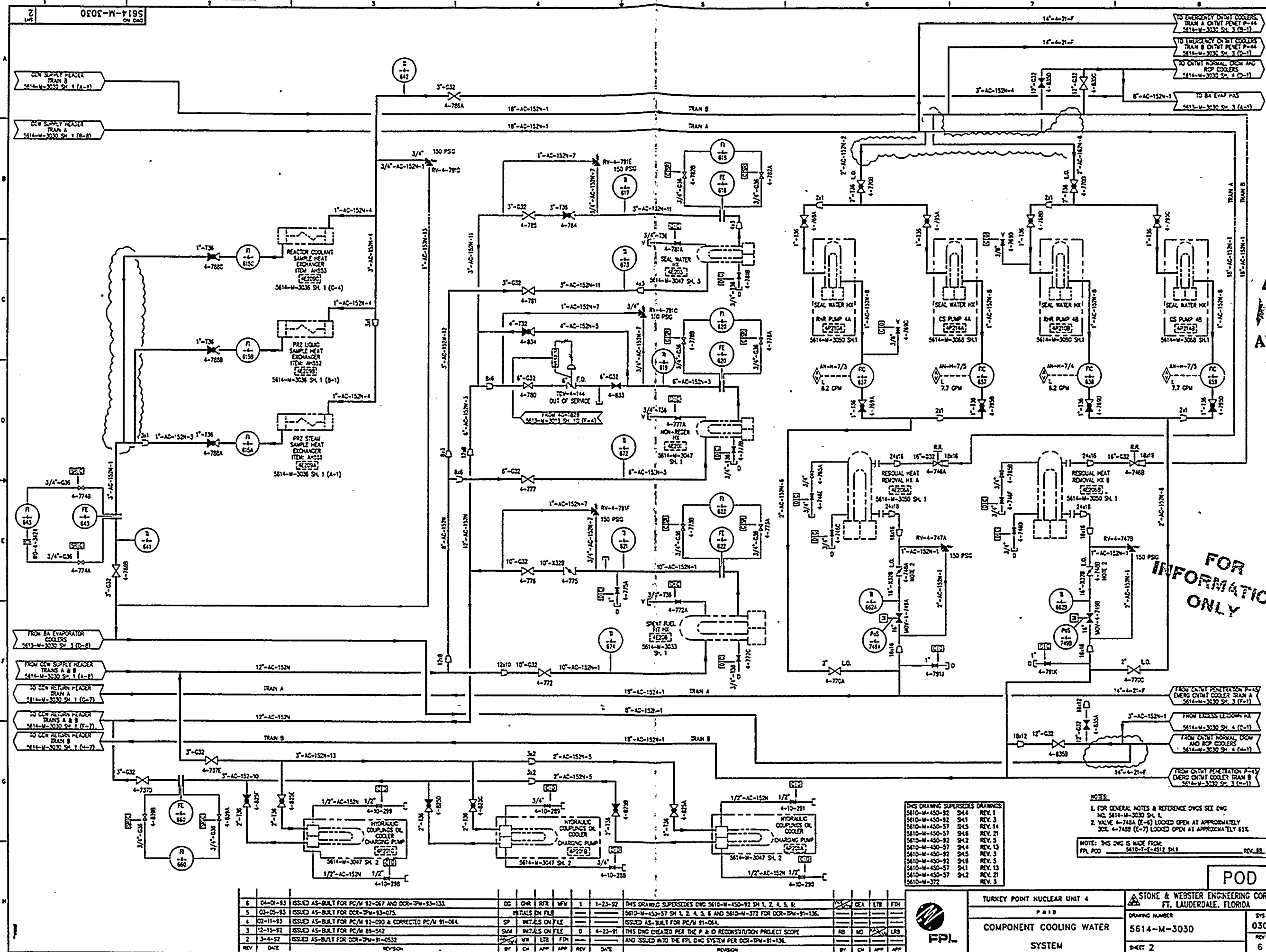
DRAWING NUMBER
5614-M-3030

SHEET 1

POD

9401260331-56

18821046



SI
APERTURE
CARD
Also Available On
Aperture Card


FOR
INFORMATION
ONLY

NOTES:
1. FOR GENERAL NOTES AND REFERENCE DWGS SEE DWG
NO. 5614-M-3030 SH. 1
2. VALVE 4-748A (E-6) LOCKED OPEN AT APPROXIMATELY
300. 4-748B (E-7) LOCKED OPEN AT APPROXIMATELY 650.
NOTE: THIS DWG IS MADE FROM:
FPL PCD 5610-T-4-4512 SH. 1 REV. 18

THIS DRAWING SUPERSEDES DRAWINGS

| | | |
|---------------|-------|----------|
| 5610-M-450-82 | SH. 1 | REV. 1 |
| 5610-M-450-82 | SH. 1 | REV. 2 |
| 5610-M-450-82 | SH. 1 | REV. 3 |
| 5610-M-450-82 | SH. 1 | REV. 4 |
| 5610-M-450-82 | SH. 1 | REV. 5 |
| 5610-M-450-82 | SH. 1 | REV. 6 |
| 5610-M-450-82 | SH. 1 | REV. 7 |
| 5610-M-450-82 | SH. 1 | REV. 8 |
| 5610-M-450-82 | SH. 1 | REV. 9 |
| 5610-M-450-82 | SH. 1 | REV. 10 |
| 5610-M-450-82 | SH. 1 | REV. 11 |
| 5610-M-450-82 | SH. 1 | REV. 12 |
| 5610-M-450-82 | SH. 1 | REV. 13 |
| 5610-M-450-82 | SH. 1 | REV. 14 |
| 5610-M-450-82 | SH. 1 | REV. 15 |
| 5610-M-450-82 | SH. 1 | REV. 16 |
| 5610-M-450-82 | SH. 1 | REV. 17 |
| 5610-M-450-82 | SH. 1 | REV. 18 |
| 5610-M-450-82 | SH. 1 | REV. 19 |
| 5610-M-450-82 | SH. 1 | REV. 20 |
| 5610-M-450-82 | SH. 1 | REV. 21 |
| 5610-M-450-82 | SH. 1 | REV. 22 |
| 5610-M-450-82 | SH. 1 | REV. 23 |
| 5610-M-450-82 | SH. 1 | REV. 24 |
| 5610-M-450-82 | SH. 1 | REV. 25 |
| 5610-M-450-82 | SH. 1 | REV. 26 |
| 5610-M-450-82 | SH. 1 | REV. 27 |
| 5610-M-450-82 | SH. 1 | REV. 28 |
| 5610-M-450-82 | SH. 1 | REV. 29 |
| 5610-M-450-82 | SH. 1 | REV. 30 |
| 5610-M-450-82 | SH. 1 | REV. 31 |
| 5610-M-450-82 | SH. 1 | REV. 32 |
| 5610-M-450-82 | SH. 1 | REV. 33 |
| 5610-M-450-82 | SH. 1 | REV. 34 |
| 5610-M-450-82 | SH. 1 | REV. 35 |
| 5610-M-450-82 | SH. 1 | REV. 36 |
| 5610-M-450-82 | SH. 1 | REV. 37 |
| 5610-M-450-82 | SH. 1 | REV. 38 |
| 5610-M-450-82 | SH. 1 | REV. 39 |
| 5610-M-450-82 | SH. 1 | REV. 40 |
| 5610-M-450-82 | SH. 1 | REV. 41 |
| 5610-M-450-82 | SH. 1 | REV. 42 |
| 5610-M-450-82 | SH. 1 | REV. 43 |
| 5610-M-450-82 | SH. 1 | REV. 44 |
| 5610-M-450-82 | SH. 1 | REV. 45 |
| 5610-M-450-82 | SH. 1 | REV. 46 |
| 5610-M-450-82 | SH. 1 | REV. 47 |
| 5610-M-450-82 | SH. 1 | REV. 48 |
| 5610-M-450-82 | SH. 1 | REV. 49 |
| 5610-M-450-82 | SH. 1 | REV. 50 |
| 5610-M-450-82 | SH. 1 | REV. 51 |
| 5610-M-450-82 | SH. 1 | REV. 52 |
| 5610-M-450-82 | SH. 1 | REV. 53 |
| 5610-M-450-82 | SH. 1 | REV. 54 |
| 5610-M-450-82 | SH. 1 | REV. 55 |
| 5610-M-450-82 | SH. 1 | REV. 56 |
| 5610-M-450-82 | SH. 1 | REV. 57 |
| 5610-M-450-82 | SH. 1 | REV. 58 |
| 5610-M-450-82 | SH. 1 | REV. 59 |
| 5610-M-450-82 | SH. 1 | REV. 60 |
| 5610-M-450-82 | SH. 1 | REV. 61 |
| 5610-M-450-82 | SH. 1 | REV. 62 |
| 5610-M-450-82 | SH. 1 | REV. 63 |
| 5610-M-450-82 | SH. 1 | REV. 64 |
| 5610-M-450-82 | SH. 1 | REV. 65 |
| 5610-M-450-82 | SH. 1 | REV. 66 |
| 5610-M-450-82 | SH. 1 | REV. 67 |
| 5610-M-450-82 | SH. 1 | REV. 68 |
| 5610-M-450-82 | SH. 1 | REV. 69 |
| 5610-M-450-82 | SH. 1 | REV. 70 |
| 5610-M-450-82 | SH. 1 | REV. 71 |
| 5610-M-450-82 | SH. 1 | REV. 72 |
| 5610-M-450-82 | SH. 1 | REV. 73 |
| 5610-M-450-82 | SH. 1 | REV. 74 |
| 5610-M-450-82 | SH. 1 | REV. 75 |
| 5610-M-450-82 | SH. 1 | REV. 76 |
| 5610-M-450-82 | SH. 1 | REV. 77 |
| 5610-M-450-82 | SH. 1 | REV. 78 |
| 5610-M-450-82 | SH. 1 | REV. 79 |
| 5610-M-450-82 | SH. 1 | REV. 80 |
| 5610-M-450-82 | SH. 1 | REV. 81 |
| 5610-M-450-82 | SH. 1 | REV. 82 |
| 5610-M-450-82 | SH. 1 | REV. 83 |
| 5610-M-450-82 | SH. 1 | REV. 84 |
| 5610-M-450-82 | SH. 1 | REV. 85 |
| 5610-M-450-82 | SH. 1 | REV. 86 |
| 5610-M-450-82 | SH. 1 | REV. 87 |
| 5610-M-450-82 | SH. 1 | REV. 88 |
| 5610-M-450-82 | SH. 1 | REV. 89 |
| 5610-M-450-82 | SH. 1 | REV. 90 |
| 5610-M-450-82 | SH. 1 | REV. 91 |
| 5610-M-450-82 | SH. 1 | REV. 92 |
| 5610-M-450-82 | SH. 1 | REV. 93 |
| 5610-M-450-82 | SH. 1 | REV. 94 |
| 5610-M-450-82 | SH. 1 | REV. 95 |
| 5610-M-450-82 | SH. 1 | REV. 96 |
| 5610-M-450-82 | SH. 1 | REV. 97 |
| 5610-M-450-82 | SH. 1 | REV. 98 |
| 5610-M-450-82 | SH. 1 | REV. 99 |
| 5610-M-450-82 | SH. 1 | REV. 100 |

| | | | | | | | | | | | | | |
|-----|----------|---|-----------------|------------------|-----|-----|------|----------|--|-------------------------------------|-----|-------------------------------------|-----|
| 6 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-067 AND DCR-TPW-93-133 | DC | CHK | RFR | MFV | 1 | 1-23-82 | THIS DRAWING SUPERSEDES DWG 5610-M-450-92 SH. 1, 2, 4, 5, 6; | <input checked="" type="checkbox"/> | SEA | LTR | FR |
| 5 | 03-05-83 | ISSUED AS-BUILT FOR DCR-TPW-93-075 | DETAILS ON FILE | | | | | | 5610-M-450-92 SH. 1, 2, 4, 5, 6 AND 5610-M-372 FOR DCR-TPW-91-136. | | | | |
| 4 | 02-11-83 | ISSUED AS-BUILT FOR PC/M 92-090 & CORRECTED PC/M 91-064 | SP | INITIALS ON FILE | | | | | ISSUED AS-BUILT FOR PC/M 91-064. | | | | |
| 3 | 12-15-82 | ISSUED AS-BUILT FOR PC/M 89-542 | SHW | INITIALS ON FILE | | | 0 | 4-23-91 | THIS DWG CREATED PER THE P & D RECONSTRUCTION PROJECT SCOPE | RS | MO | <input checked="" type="checkbox"/> | URS |
| 2 | 3-4-82 | ISSUED AS-BUILT FOR DCR-TPW-91-0532 | DC | CHK | NR | LTR | FM | | AND ISSUED INTO THE FPL DNG SYSTEM PER DCR-TPW-91-136. | | | | |
| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP | AP | |



TURKEY POINT NUCLEAR UNIT 4
P & ID
COMPONENT COOLING WATER
SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5614-M-3030

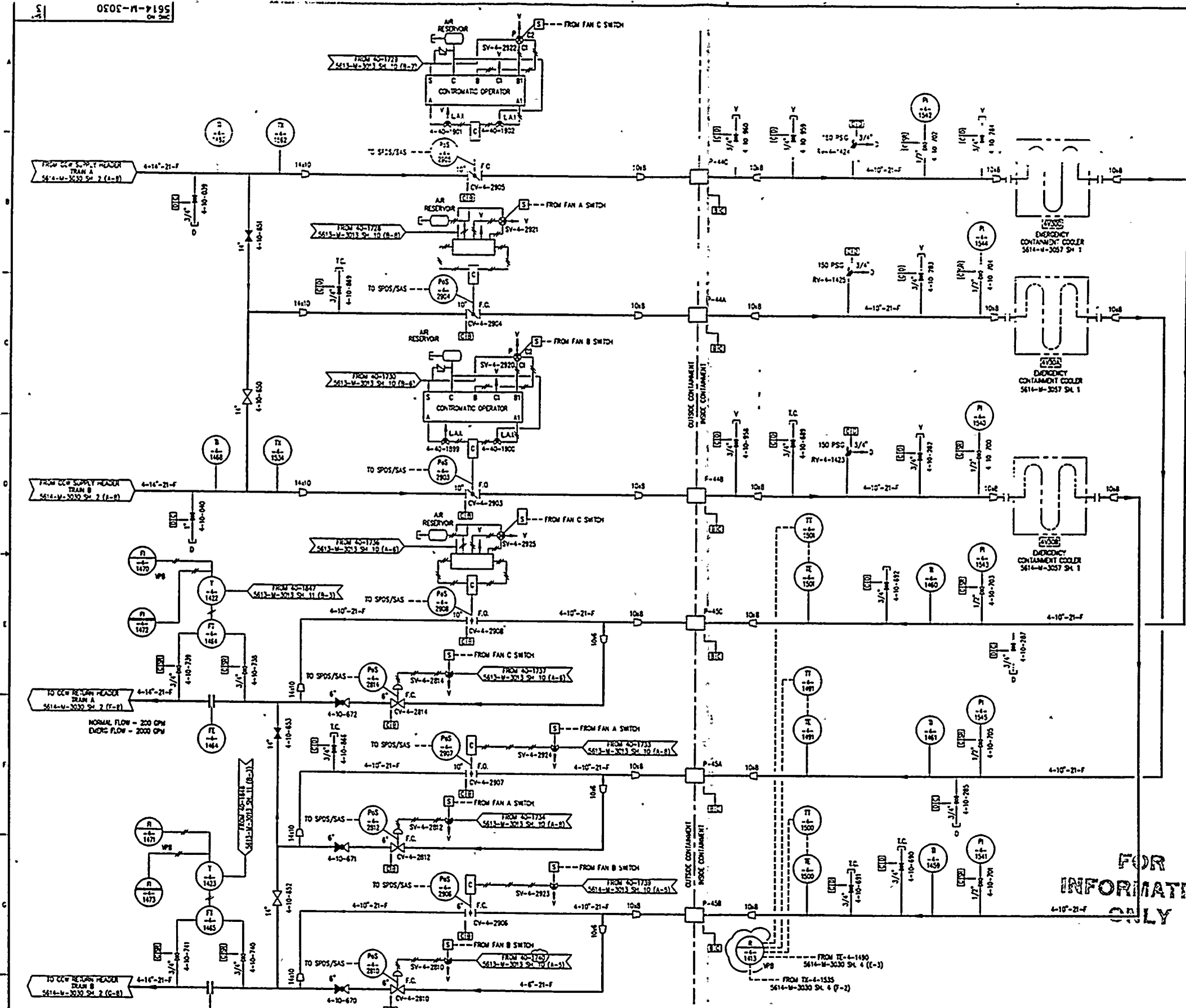
REV. 2

POD

030
6

9401260331-57

1389251068



NOTES
 FOR GENERAL NOTES & REFERENCE DWS SEE DWG
 NO 5614-M-3030 SH 1
 DELETED
 ALL PIPING INSIDE CONTAINMENT SHOWN
 ON THIS DRAWING ARE SAFETY RELATED AND
 ARE WITHIN THE SEISMOLOGIC BOUNDARIES

SI
 APERTURE
 CARD

Also Available On
 Aperture Card

| EMERGENCY CONTAINMENT COOLERS VALVE POSITION | | | |
|--|-------------|--------------|---------------------|
| FAN SWITCH POSITION | INLET VALVE | OUTLET VALVE | OUTLET BYPASS VALVE |
| AUTO | OPEN | CLOSED | OPEN |
| FAN NOT RUNNING | OPEN | CLOSED | OPEN |
| AUTO FAN STARTS | OPEN | OPEN | OPEN |
| HOLD IN START (PUMPING) | OPEN | OPEN | CLOSED |
| STOP | CLOSED | CLOSED | CLOSED |

IN AUTO SEQUENCE STARTS FAN-B CONTACT ON MOTORS OPENS RESPECTIVE MAIN
 OUTLET VALVES. NOTE: IF FAN SWITCH IS IN STOP POSITION AND THE SEQUENCE
 STARTS FAN, OUTLET OPENS BUT INLET AND OUTLET BYPASS WILL NOT OPEN

THIS DRAWING SUPERSEDES DRAWINGS
 5610-M-450-SH 2 REV 3
 5610-M-343 REV 8
 5610-M-371 REV 2
 5610-M-372 REV 3

NOTE: THIS DWS IS MADE FROM
 PL P00 5610-TE-4511 SH 1 REV. 01
 PL P00 5610-TE-4512 SH 2 REV. 02

FOR
 INFORMATION
 ONLY

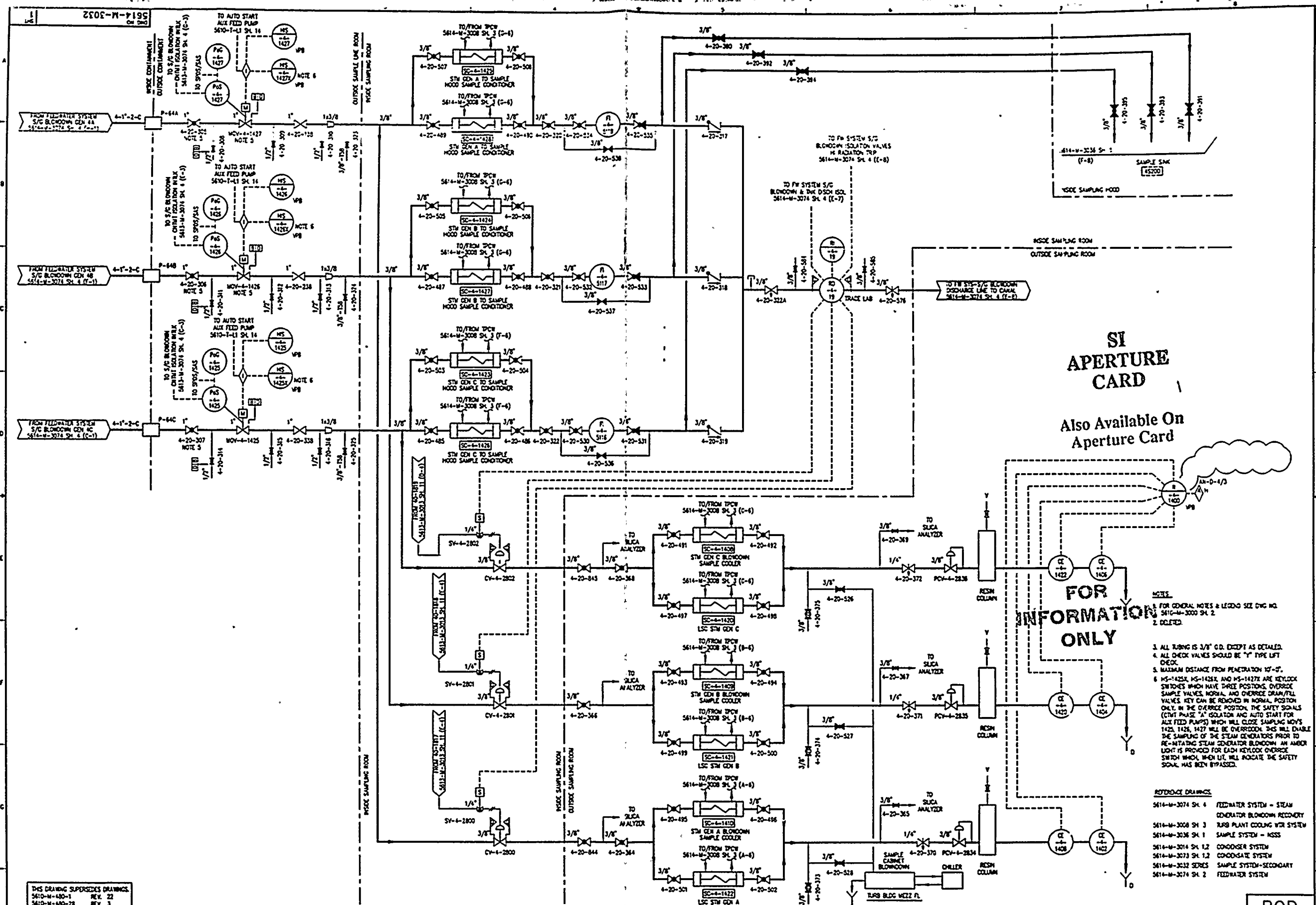
| REV | DATE | REVISION | BY | CHK | APP | DATE | REV | DATE | REVISION | BY | CHK | APP | DATE |
|-----|----------|---|-----|-------|---------|------|-----|---------|---|-----|-----|-----|------|
| 7 | 05-19-83 | ISSUED AS-BUILT FOR DCR-TPM-93-187. | DO | UK | JPH | | 2 | 8-22-91 | ISSUED AS-BUILT FOR PC/M 82-155. | JPH | CEA | RFR | |
| 6 | 03-06-83 | ISSUED AS-BUILT FOR DCR-TPM-93-075. | SP | INTLS | ON FILE | | | | | | | | |
| 5 | 12-16-82 | ISSUED AS-BUILT FOR PC/M 82-090. | SP | INTLS | ON FILE | | | | | | | | |
| 4 | 12-16-82 | ISSUED AS-BUILT FOR PC/M 82-090. | SP | INTLS | ON FILE | | | | | | | | |
| 3 | 3-4-82 | DWS DRAWING SUPERSEDES DRAWING 5610-M-343 FOR DCR-TPM-91-532. | JPH | JPH | LTD | FM | 0 | 4-23-91 | DWS DWS CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | JPH | MD | UK | JPH |
| 2 | | ISSUED AS-BUILT FOR DCR-TPM-91-532. | JPH | JPH | LTD | FM | 0 | | AND ISSUED INTO THE FPL DWS SYSTEM FOR DCR-TPM-91-136. | JPH | MD | UK | JPH |
| 1 | | | | | | | | | | | | | |

| | | | |
|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P & ID | | DRAWING NUMBER | |
| COMPONENT COOLING WATER | | 5614-M-3030 | |
| SYSTEM | | SHEET 3 | |
| FPL | | SYS 030 | |
| | | REV 8 | |

940.1260331-58

1962-1963

1860-1869



THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-480-1 REV. 22
5610-M-480-22 REV. 3

NOTE: REV. 1 OF THIS Dwg IS MADE FROM:
FPL P00 5610-T-4-002 SH. 4 REV. 31

NOTE: THIS Dwg IS MADE FROM:
FPL P&G 5610-M-480-1 REV. 22

| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |
|-----|----------|---|----|----|-----|---------|-----|----------|---|----|----|-----|---------|
| 1 | 12-23-92 | ISSUED AS-BUILT FOR PC/M 89-542, DCR-TPW-92-264, AND DCR-TPW-92-213 | SM | IN | LS | LS | 1 | 12-23-92 | ALL REV 1 CHANGES IN ACCORDANCE WITH P & G RECONSTRUCTION PROJECT | SM | MO | LS | LS |
| 2 | 2-10-93 | SCOPE PER DCR-TPW-92-013 | SM | MO | LS | LS | 2 | 2-10-93 | SCOPE PER DCR-TPW-92-013 | SM | MO | LS | LS |
| 3 | 9-20-93 | ISSUED AS-BUILT FOR PC/M 93-004 | SM | MO | LS | LS | 3 | 9-20-93 | THIS Dwg REDRAWN ON CAD FROM 5610-M-480-1 | SM | MO | LS | LS |
| 4 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-007 AND DCR-TPW-93-133 | DO | AB | RFR | MFM | 4 | 04-01-93 | DWG SUPERSEDES 5610-M-480-1, 5610-M-480-22, AND ISSUED | DO | AB | RFR | MFM |
| 5 | 02-20-93 | ISSUED AS-BUILT FOR PC/M 92-090 & DCR-TPW-91-400 | SP | IN | LS | ON FILE | 5 | 02-20-93 | RTD THE FPL Dwg SYSTEM PER DCR-TPW-91-532 | SP | IN | LS | ON FILE |

TURKEY POINT NUCLEAR UNIT 4

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER: **5614-M-3032**

DATE: **5-OCT-91**

POD

**SAMPLE SYSTEM - SECONDARY
STEAM GENERATOR BLOWDOWN**

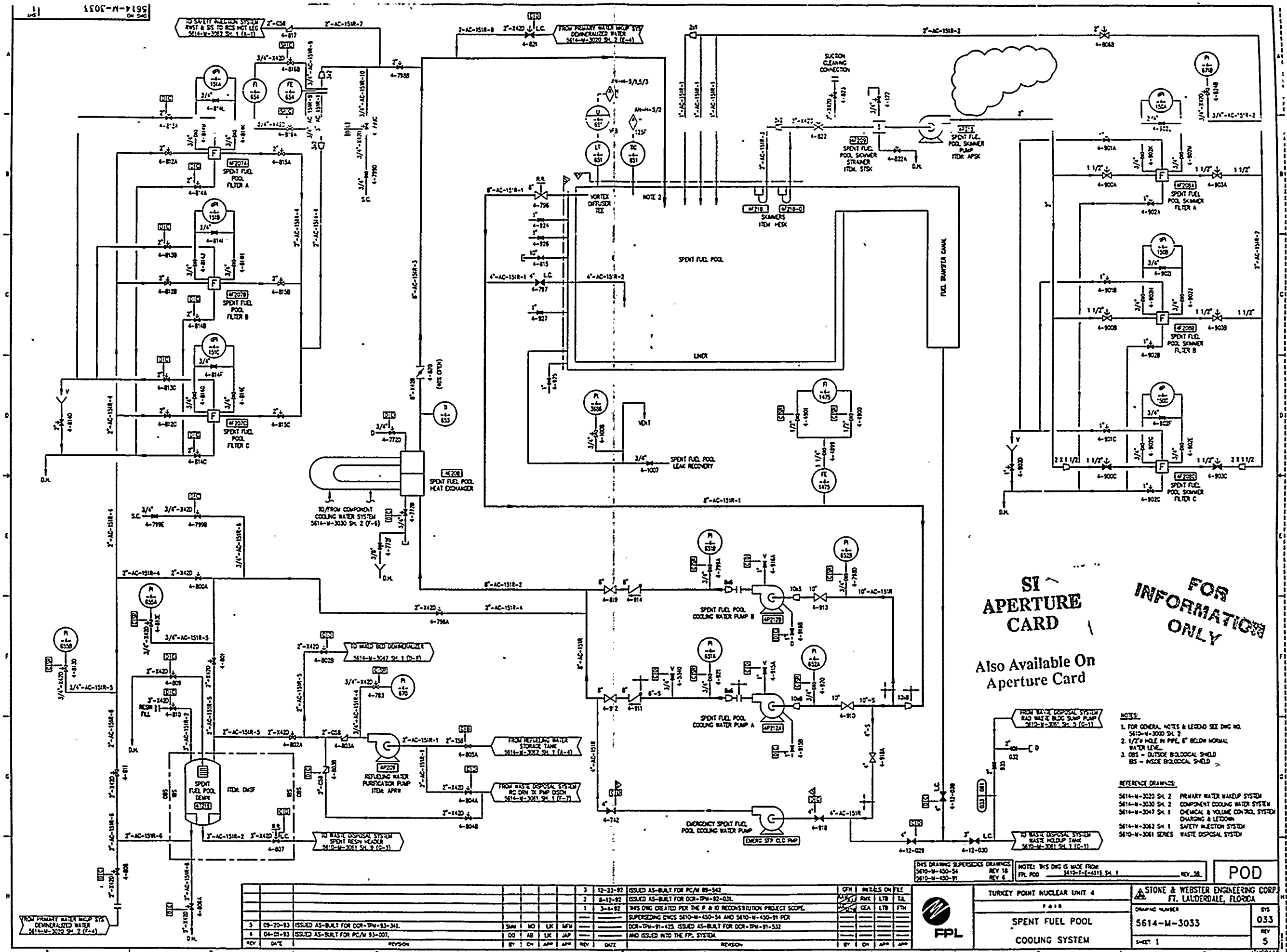
REV: **032**

REV: **5**

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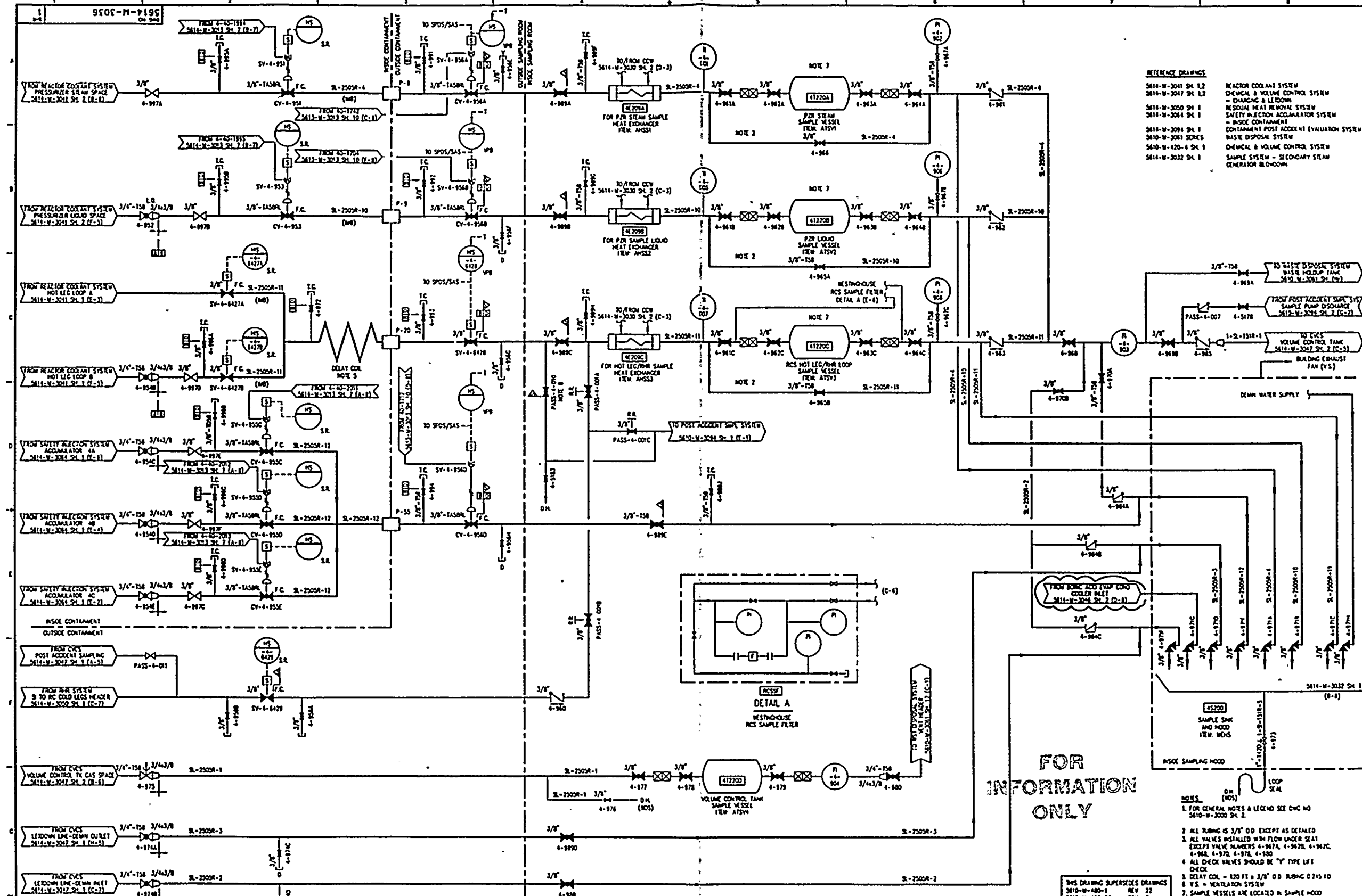
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JAN 1960

CONFIDENTIAL
JAN 1960



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0301800331



- REFERENCE DRAWINGS**
- 5614-W-3041 SH. 1.2
 - 5614-W-3047 SH. 1.2
 - 5614-W-3050 SH. 1
 - 5614-W-3054 SH. 1
 - 5614-W-3064 SH. 1
 - 5614-W-3081 SERIES
 - 5614-W-420-4 SH. 1
 - 5614-W-3032 SH. 1
- REACTOR COOLANT SYSTEM**
CHEMICAL & VOLUME CONTROL SYSTEM
WASTE DISPOSAL SYSTEM
SAFETY INJECTION ACCUMULATOR SYSTEM
INSIDE CONTAINMENT
CONTAINMENT POST ACCIDENT EVALUATION SYSTEM
WASTE DISPOSAL SYSTEM
CHEMICAL & VOLUME CONTROL SYSTEM
SAMPLE SYSTEM - SECONDARY STEAM GENERATOR BLOWDOWN

SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

- NOTES**
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-W-3000 SH. 2
 2. ALL RUBING IS 3/8" O.D. EXCEPT AS DETAIL
 3. ALL VALVES INSTALLED WITH FLOW UNDER SEAT EXCEPT VALVE NUMBERS 4-967A, 4-967B, 4-967C, 4-968, 4-970, 4-978, 4-980
 4. ALL CHECK VALVES SHOULD BE "Y" TYPE LEFT OPEN
 5. DELAY COIL - 120 FT. x 3/8" O.D. RUBING 0.245 ID
 6. V.S. = VENTILATION SYSTEM
 7. SAMPLE VESSELS ARE LOCATED IN SAMPLE HOOD
 8. IN CASE OF FAILURE OF NORMAL FLOW PATH TO PASS OPEN, OPEN PASS-4-010
 9. S.R. = SAMPLE ROOM
 10. HMB = HOSE WISSE BARRIER

NOTES: REV. 1 OF THIS DWG IS MADE FROM 5610-W-3041 SH. 1.2
 FPL P40 5610-W-3041 SH. 1.2 REV. 22
 NO. 5610-W-1775 REV. 2

| | | | | | | | | | | | | | |
|-----|----------|---|-----|----|-----|-----|-----|----------|---|----|----|-----|-----|
| 8 | 08-08-93 | ISSUED AS-BUILT FOR DCR-SPW-93-247 | DO | AB | LK | MM | 8 | 08-08-93 | ISSUED AS-BUILT FOR DCR-SPW-93-247 | SM | AB | LK | MM |
| 5 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, DCR-SPW-93-005 | DO | AB | LK | MM | 7 | 08-20-93 | ISSUED AS-BUILT FOR PC/M 93-004 | SM | AB | LK | MM |
| 4 | 03-08-93 | ISSUED AS-BUILT FOR PC/M 93-075 | DO | AB | LK | MM | 6 | 11-28-91 | DWG REDRAWN ON CAD FROM 5610-W-480-1 AND 5610-W-1275 | SM | AB | LK | MM |
| 3 | 2-7-93 | ISSUED AS-BUILT FOR PC/M 93-090 | SP | AB | LK | MM | 5 | | DWG SUPERSEDES 5610-W-480-1, 5610-W-480-2 AND ISSUED INTO THE FPL DWG SYSTEM PER DCR-SPW-91-332 | SM | AB | LK | MM |
| 2 | 12-21-92 | ISSUED AS-BUILT FOR PC/M 91-342 | LAW | AB | LK | MM | 4 | | | SM | AB | LK | MM |
| REV | DATE | REVISION | BY | CH | APP | APP | REV | DATE | REVISION | BY | CH | APP | APP |

TURKEY POINT NUCLEAR UNIT 4

STONE & WEBSTER ENGINEERING CORP.
 FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
 5614-M-3036

SCALE
 1"=10'

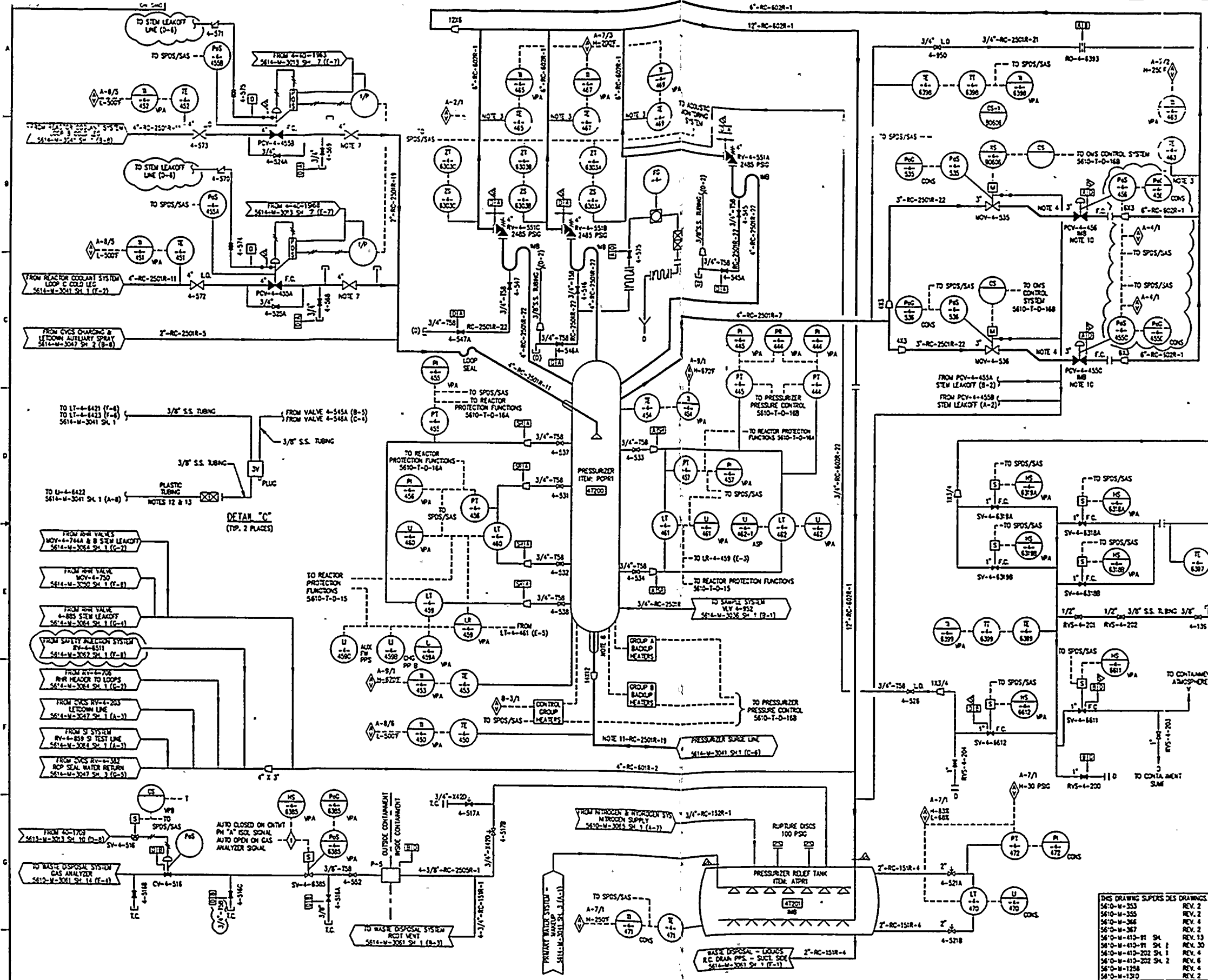
POD
 036
 REV. 8

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- NOTES**
1. FOR GENERAL NOTES & REFERENCE DWS SEE DWS NO. 5610-M-3041 SH. 1
 2. DELETED
 3. DETECTORS LOCATED AT BOTTOM OF PIPE
 4. LINE SLOPED WITH 45° ELB TO PROVIDE WATER SEAL
 5. REQUIRED FOR INTEGRATED LEAK RATE TEST
 6. DRP OR CLOSE ON AUTOMATIC SAFETY PNEUMATIC SIGNAL
 7. ABANDONED SPRAY VALVE BODIES, INTERNALS REMOVED PLATE WELDED IN BORE, AND BODIES BUNG PLUGGED
 8. SYMBOL INDICATES THERMAL SLEEVE
 9. FITTING REFERENCE DRAWINGS 5610-M-410-41, -50, -55, -56 AND PRESSURIZER MANUAL
 10. HSB = HOSE WISSE BARRIER
 11. OMB = OUTSIDE WISSE BARRIER
 12. FOR CONTROL AND ACTUATION DETAIL OF PRESSURIZER PORTS SEE DWS 5610-M-3041 SH. 4
 13. 27.5 INCHES INSIDE DIAMETER
 14. PLASTIC TUBING IS FOR OPTIONAL USE FOR REDUCED RCS INVENTORY DURING W-LOOP CONDITIONS MODES (3 & 6). THE LEVEL INDICATOR SHALL BE ISOLATED AND TUBING DISCONNECTED DURING MODES 1 THRU 4
 15. TUBING MAY BE CONNECTED TO EITHER 4-545, 4-546 OR 4-547, CORRESPONDING BUNG PLUGS TO BE RE-INSTALLED WHEN TUBING IS NOT CONNECTED
 16. THIS LINE BENT OUT OF PLANE
 17. FOR C-0037-87, FOR V-0001, CALC. FOR C-0001-91-12, FOR V-0001, AND FOR V-0001-91-067.

SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

| DWG NO. | REV. | DATE | BY | CHKD | APPD |
|----------------------|---------|------|----|------|------|
| 5610-M-353 | REV. 2 | | | | |
| 5610-M-355 | REV. 2 | | | | |
| 5610-M-366 | REV. 4 | | | | |
| 5610-M-367 | REV. 2 | | | | |
| 5610-M-410-91 SH. 1 | REV. 13 | | | | |
| 5610-M-410-91 SH. 2 | REV. 30 | | | | |
| 5610-M-410-202 SH. 1 | REV. 4 | | | | |
| 5610-M-410-202 SH. 2 | REV. 6 | | | | |
| 5610-M-1258 | REV. 4 | | | | |
| 5610-M-1310 | REV. 2 | | | | |

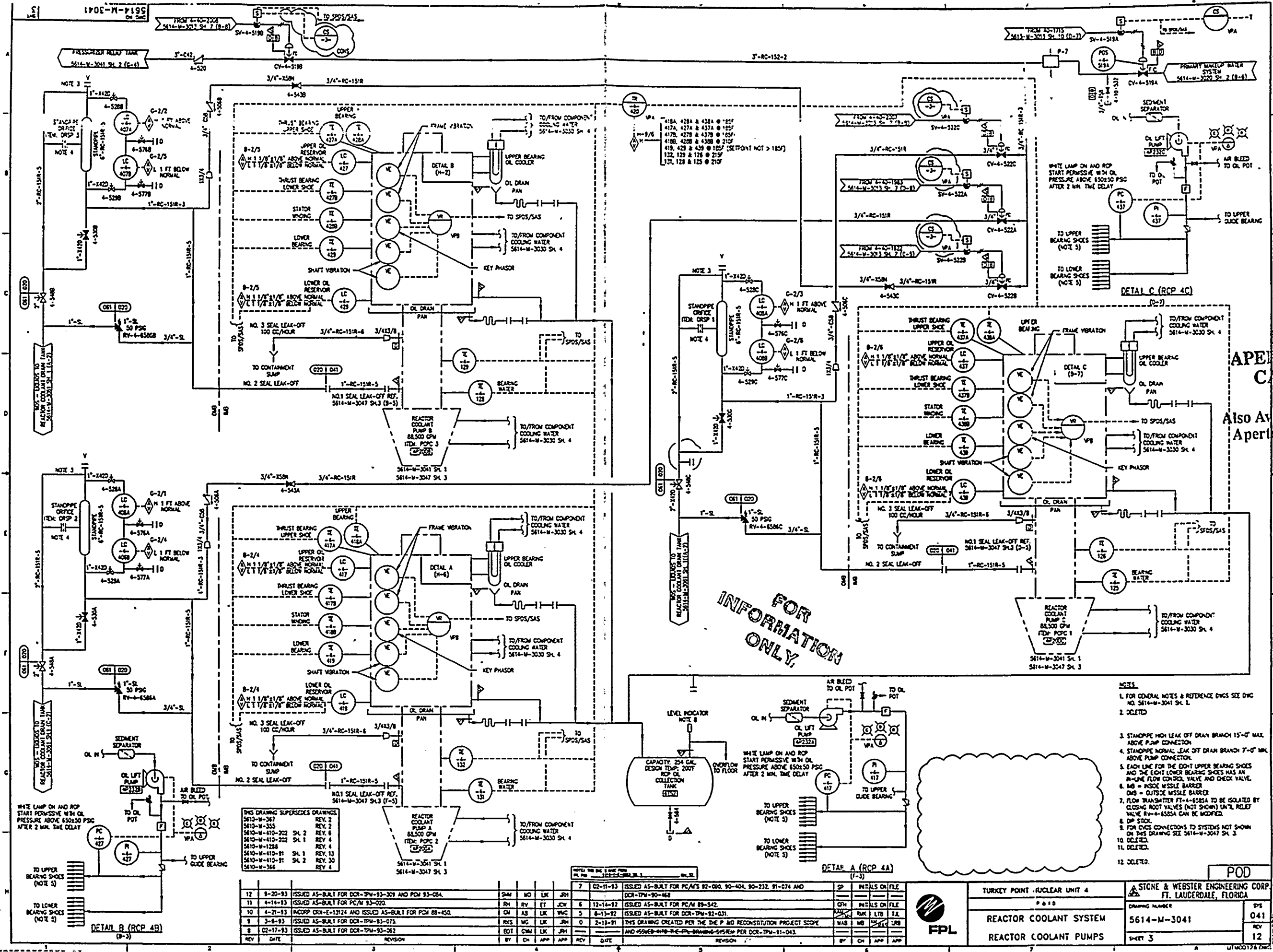
| REV | DATE | DESCRIPTION | BY | CHKD | APPD |
|----------|------|---|-----|------|------|
| 2-11-93 | | ISSUED AS-BUILT FOR PC/M 92-068 AND DCR-TPM 91-522 & CORRECTED DRAFTING ERROR | TAM | | |
| 8-12-93 | | PC/M'S 92-068 & 92-072, DCR-TPM 91-067 | OPN | MO | UNB |
| 12-23-92 | | ISSUED AS-BUILT FOR PC/M 89-542 AND DCR-TPM 92-215 | OPN | MO | UNB |
| 12-2-92 | | ISSUED AS-BUILT FOR PC/M 92-068 | OPN | MO | UNB |
| 8-13-92 | | THIS DRAWING SUPERSEDES DWS 5610-M-1310. ISSUED AS-BUILT FOR | OPN | MO | UNB |
| | | DCR-TPM 92-031 AND CORRECTED DRAWING FOR DCR-TPM 91-043 | OPN | MO | UNB |



| | | | |
|-----------------------------|--|--|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| DRAWING NUMBER | | SYS | |
| 5614-M-3041 | | 041 | |
| SHEET 2 | | REV 14 | |

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FOR INFORMATION ONLY

SI APERTURE CARD
Also Available On Aperture Card

- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5614-M-3041 SH. 2.
 2. DELETED
 3. STANDPIPE HIGH LEAK OFF DRAIN BRANCH 15'-0" MAX. ABOVE PUMP CONNECTION.
 4. STANDPIPE NORMAL LEAK OFF DRAIN BRANCH 7'-0" MAX. ABOVE PUMP CONNECTION.
 5. EACH LINE FOR THE RIGHT UPPER BEARING SHOES AND THE RIGHT LOWER BEARING SHOES HAS AN IN-LINE FLOW CONTROL VALVE AND CHECK VALVE.
 6. MB = INSIDE MESSLE BARRED.
 7. FLOW TRANSDUCER FT-4-6525A TO BE ISOLATED BY CLOSING ROOT VALVES (NOT SHOWN) UNTIL RELIEF VALVE RV-4-6525A CAN BE MODIFIED.
 8. DPM STOCK.
 9. FOR OWS CONNECTIONS TO SYSTEMS NOT SHOWN ON THIS DRAWING SEE 5614-M-3041 SH. 3.
 10. DELETED.
 11. DELETED.
 12. DELETED.

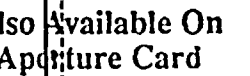
THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-367 REV. 2
5610-M-355 REV. 6
5610-M-410-202 SH. 2 REV. 6
5610-M-410-202 SH. 1 REV. 4
5610-M-1288 REV. 4
5610-M-110-91 SH. 1 REV. 13
5610-M-110-91 SH. 2 REV. 30
5610-M-368 REV. 6

| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE | REVISION | BY | CHK | APP | APP |
|-----|----------|--|-----|-----|-----|-----|-----|----------|--|-----|-----|-----|-----|
| 12 | 8-20-93 | ISSUED AS-BUILT FOR DCR-TPM-93-309 AND POM 93-084 | SHM | MO | LK | JRN | 7 | 02-11-93 | ISSUED AS-BUILT FOR PC/A'S 92-000, 90-404, 90-232, 91-074 AND DCR-TPM-90-468 | SP | | | |
| 11 | 4-14-93 | ISSUED AS-BUILT FOR PC/M 93-020 | RH | RV | ET | JCW | 6 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 | GM | | | |
| 10 | 4-21-93 | ACORP ORN-E-13124 AND ISSUED AS-BUILT FOR POM 88-450 | GM | AS | LK | WAC | 5 | 8-13-92 | ISSUED AS-BUILT FOR DCR-TPM-92-031 | WAB | MB | LK | LRB |
| 9 | 3-6-93 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | RVS | MC | LK | JRN | 0 | 2-13-92 | THIS DRAWING CREATED FOR THE P AND RECONSTRUCTION PROJECT SCOPE | | | | |
| 8 | 02-17-93 | ISSUED AS-BUILT FOR DCR-TPM-93-262 | BDT | CWM | LK | JRN | | | AND 4556B-WAB-BE-PC-DRAWING-SYSTEM FOR DCR-TPM-91-043 | | | | |

| | | | |
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| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| P & ID | | DRAWING NUMBER | |
| REACTOR COOLANT SYSTEM | | 5614-M-3041 | |
| REACTOR COOLANT PUMPS | | SHEET 3 | |
| FPL | | SYS 041
REV 12 | |


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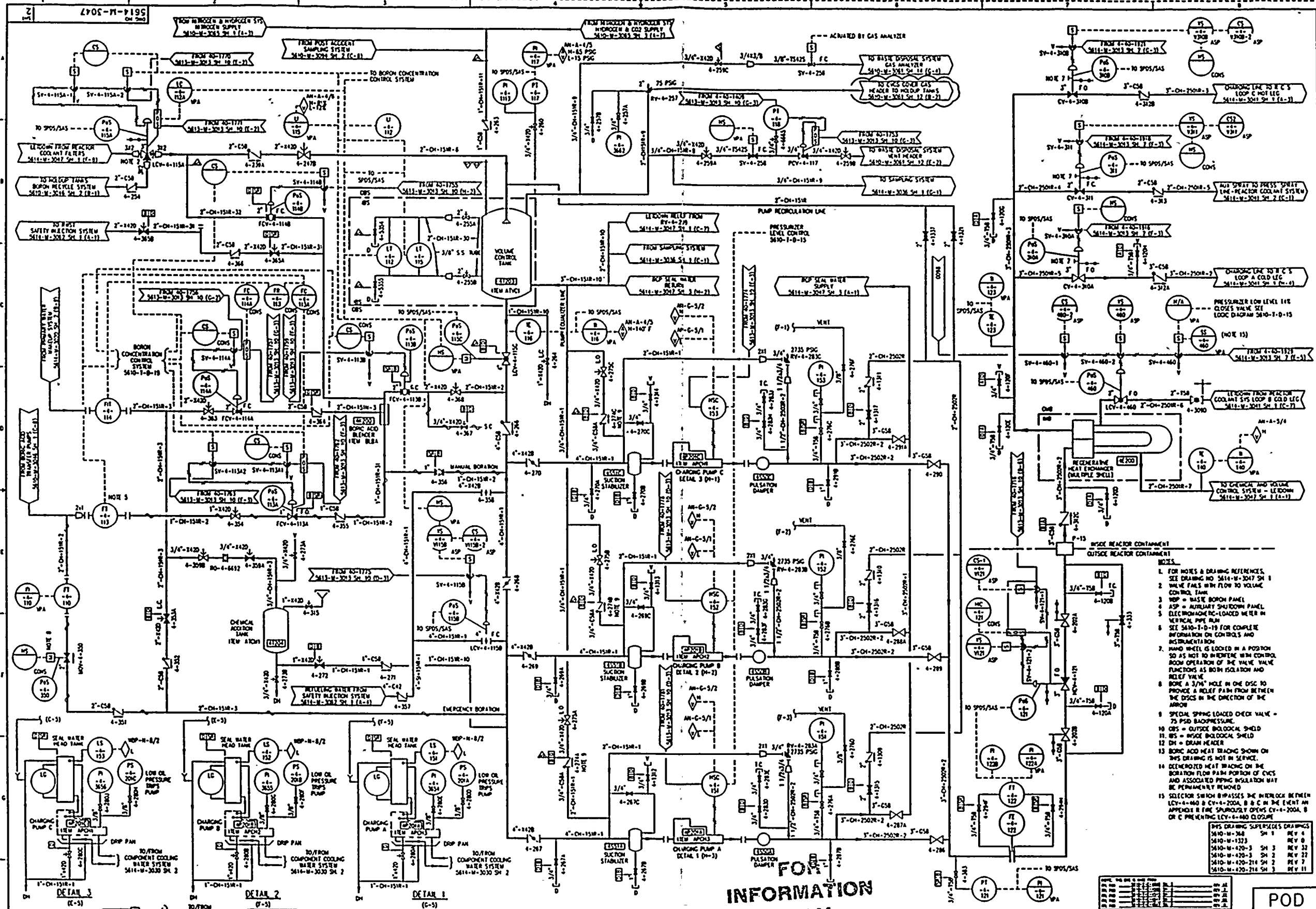


| THIS DRAWING SUPERSEDES DRAWINGS | | |
|----------------------------------|-------|---------|
| 5610-M-368 | SH. 1 | REV. 6 |
| 5610-M-368 | SH. 2 | REV. 3 |
| 5610-M-470-3 | SH. 1 | REV. 13 |
| 5610-M-470-3 | SH. 2 | REV. 22 |
| 5610-M-470-3 | SH. 3 | REV. 33 |
| 5610-M-470-214 | SH. 1 | REV. 2 |
| 5610-M-470-214 | SH. 2 | REV. 7 |
| 5610-M-470-214 | SH. 3 | REV. 11 |

POD

| | |
|--|--------------------------|
|  STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| DRAWING NUMBER
5614-M-3047 | SYN
047 |
| SHEET 1 | REV
8 |

11



**SI
APERTURE
CARD**

Also Available On
Aperture Card

- NOTES:**
1. FOR NOTES & DRAWING REFERENCES, SEE DRAWING NO. 5614-M-3047 SH 1
 2. VALVE FALS WITH FLOW TO VOLUME CONTROL TANK
 3. WSP = WASTE BORON PANEL
 4. ASP = AUXILIARY SHUTDOWN PANEL
 5. ELECTROMAGNETIC-LOADED METER IN VERTICAL PIPE RUN
 6. SEE 5610-1-0-10 FOR COMPLETE INFORMATION ON CONTROLS AND INSTRUMENTATION
 7. HAND WHEEL IS LOCKED IN A POSITION SO AS NOT TO INTERFERE WITH CONTROL ROOM OPERATION OF THE VALVE. VALVE FUNCTIONS AS BOTH ISOLATION AND RELIEF VALVE
 8. BORE A 3/8" HOLE IN THE DISC TO PROVIDE A RELIEF PATH FROM BETWEEN THE DISCS IN THE DIRECTION OF THE ARROW
 9. SPECIAL SPRING LOADED CHECK VALVE - 75 PSID BACKPRESSURE
 10. CBS = OUTSIDE BIOLOGICAL SHIELD
 11. INS = INSIDE BIOLOGICAL SHIELD
 12. DH = DRAIN HEADER
 13. BORIC ACID HEAT TRACING SHOWN ON THIS DRAWING IS NOT IN SERVICE
 14. DEHEATED HEAT TRACING ON THE BORATION FLOW PUMP PORTION OF CHCS AND ASSOCIATED PIPING INSULATION MAY BE PERMANENTLY REMOVED
 15. SELECTOR SWITCH BYPASSES THE INTERLOCK BETWEEN LCV-4-460 & CV-4-200A, B & C IN THE EVENT AN APPROPRIATE SHUTDOWN OCCURS CV-4-200A, B OR C PREVENTING LCV-4-460 CLOSURE

| REV | DATE | DESCRIPTION |
|-----|----------|--|
| 1 | 12-10-83 | ISSUED AS-BUILT FOR PC/N 90-194 |
| 2 | 04-01-83 | ISSUED AS-BUILT FOR PC/NS 92-011 93-046 & 93-050 |
| 3 | 03-01-83 | ISSUED AS-BUILT FOR DCR-BW-93-075 |
| 4 | 2-28-83 | ISSUED AS-BUILT FOR DCR-BW-92-292 |
| 5 | 2-10-83 | ISSUED AS-BUILT FOR PC/NS 89-542, 92-090, 90-442, 91-038, 90-056 AND INCORP CHN-W-5082 |

**FOR
INFORMATION
ONLY**



TURKEY POINT NUCLEAR UNIT 4

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

CHEMICAL AND VOLUME CONTROL SYSTEM
CHARGING AND LETDOWN

5614-M-3047
SHEET 2

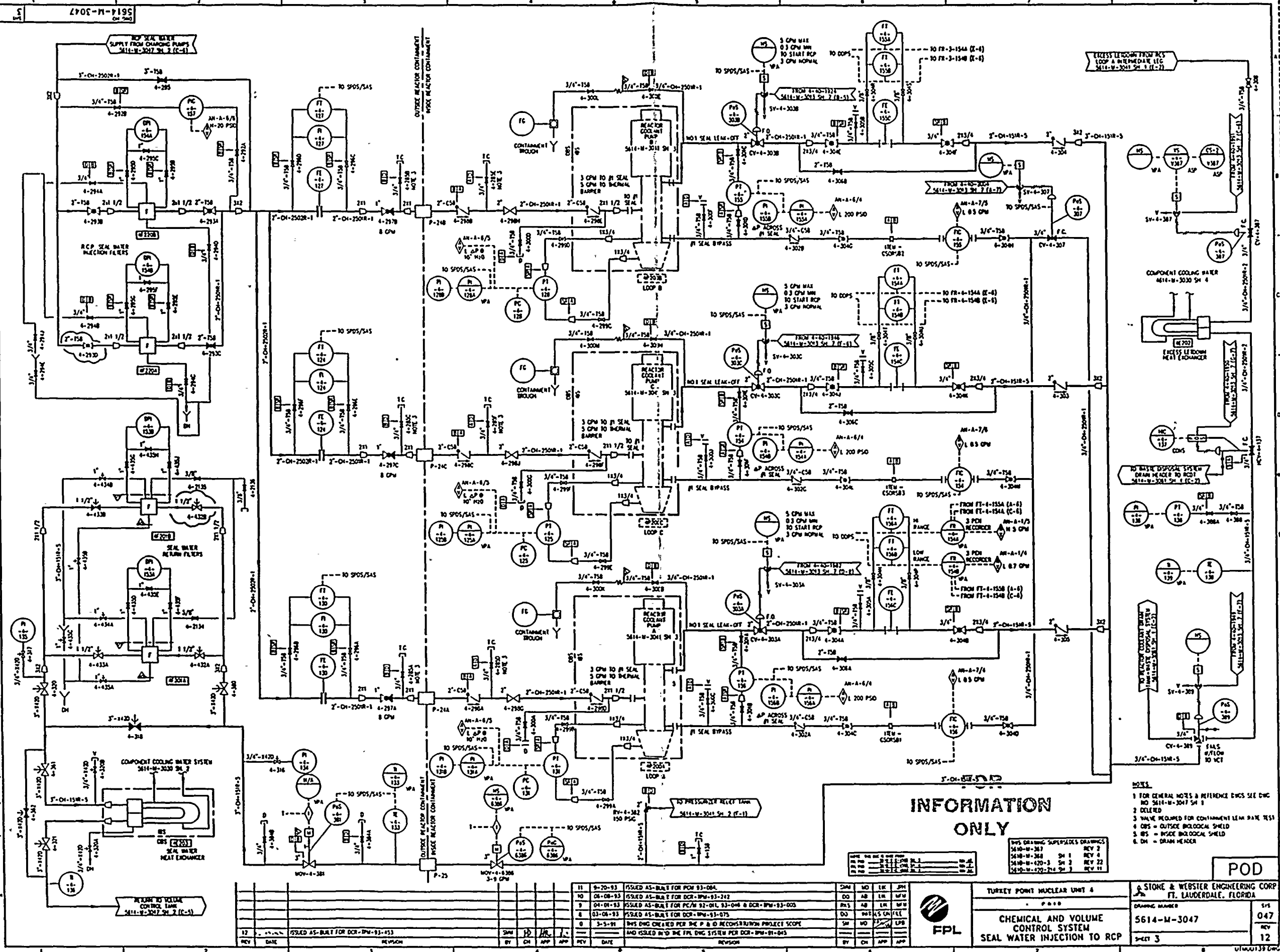
POD
047
REV 14

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SI APERTURE CARD

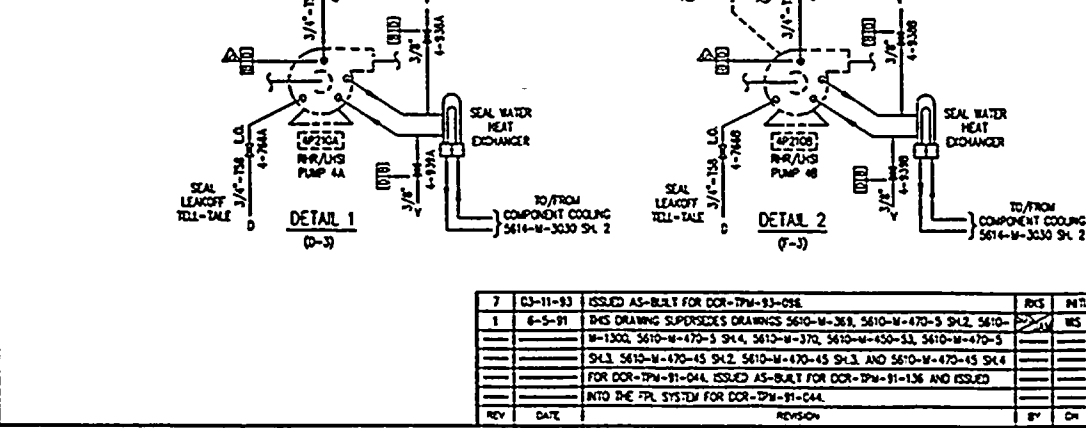
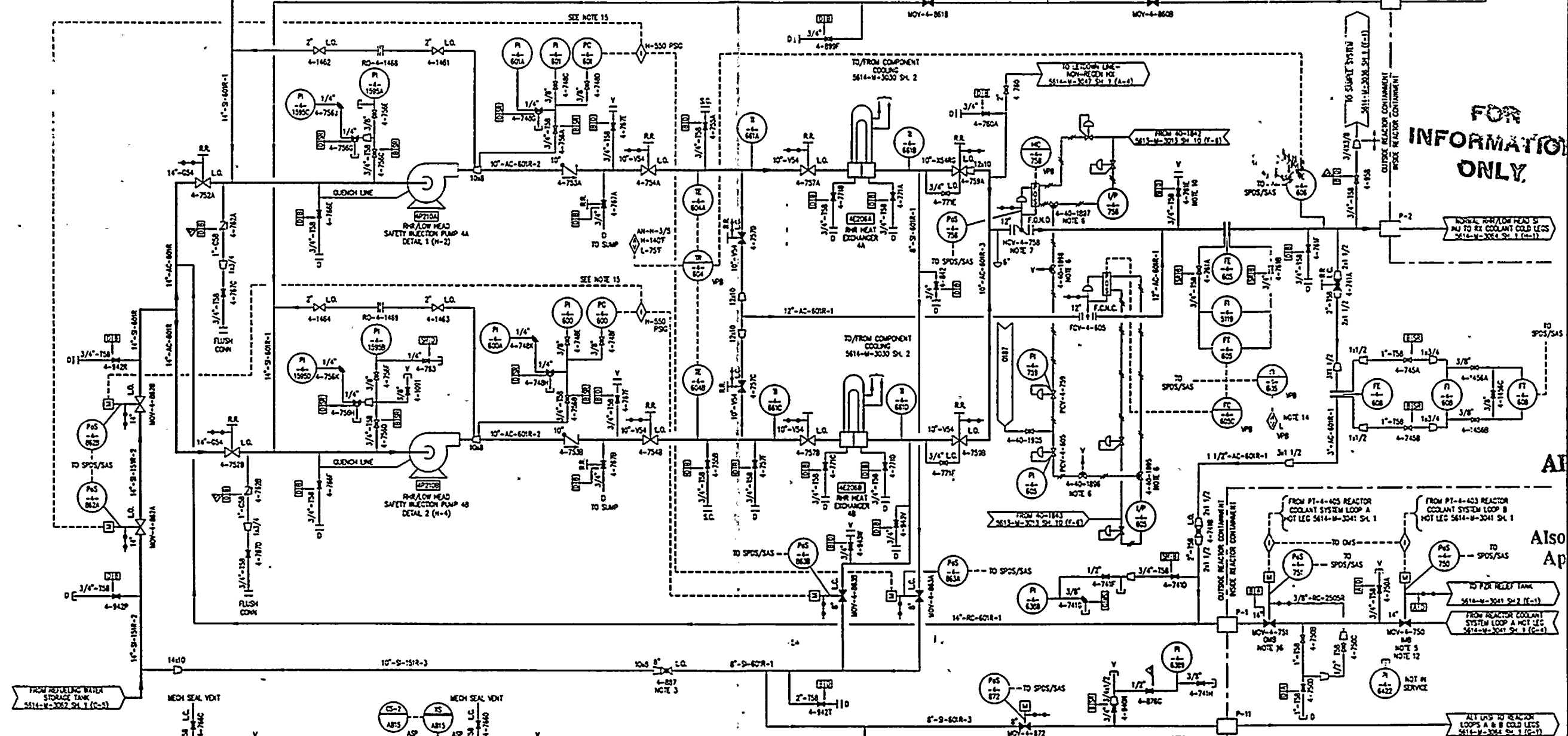
Also Available On
Aperture Card



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- NOTES CONTINUED
14. LOW ALARM SET AT 3000 OPH. HIGH ALARM MUST BE SET ABOVE 3000 OPH.
 15. DURING SHUTDOWN AND COOLDOWN WITH RHR IN SERVICE, VALVES 6B2A & B AND 6B3A & B ARE CLOSED. TO PREVENT PRESSURIZING THE LINE TO RHR, PC-600 & PC-621 WILL OPEN CONTACTS AND PREVENT THESE VALVES FROM OPENING IF RHR PRESSURE IS ABOVE 210 PSIG. ALSO, 6B2A & B AND 6B3A & B ARE INTERLOCKED WITH 750 & 751. SEE NOTES 3 & 16.
 16. INTERLOCKS FOR MOV-4-875: a) PT-4-425 LOOP "A" NOT LEC ABOVE 525 PSIG PREVENTS OPENING VALVE. b) IF VALVE IS OPEN, PT-4-425 "A" CLOSURE VALVE IF RCS PRESSURE RISES ABOVE 525 PSIG. c) MOV-4-875 CANNOT BE OPENED IF 4-8513 OR 4-8623 ON RHR SYSTEM IS OPEN. d) AUTO-VALVE CLOSING CAN BE MANUALLY OVER-RIDDEN IF PRESSURE IS LESS THAN 525 PSIG AND OHS IS IN LOW PRESSURE MODE.



THIS DRAWING SUPERSEDES DRAWINGS:

| NO. | DATE | DESCRIPTION |
|---------------|---------|-------------|
| 5610-M-368 | REV. 3 | |
| 5610-M-470-5 | SH. 2 | REV. 26 |
| 5610-M-1300 | REV. 4 | |
| 5610-M-470-5 | SH. 4 | REV. 26 |
| 5610-M-370 | REV. 3 | |
| 5610-M-450-53 | REV. 22 | |
| 5610-M-470-5 | SH. 3 | REV. 6 |
| 5610-M-470-45 | SH. 2 | REV. 6 |
| 5610-M-470-45 | SH. 4 | REV. 10 |

REFERENCE DRAWINGS:

| NO. | DATE | DESCRIPTION |
|-------------|--------|---------------------------------------|
| 5614-M-3082 | REV. 3 | SAFETY INJECTION SYSTEM |
| 5614-M-3083 | REV. 3 | CONTAINMENT SPRAY SYSTEM |
| 5614-M-3084 | REV. 3 | SAFETY INJECTION - ACCUMULATOR SYSTEM |
| 5614-M-3041 | REV. 3 | REACTOR COOLANT SYSTEM |
| 5614-M-3030 | REV. 3 | CONTAINMENT COOLING WATER SYSTEM |
| 5610-T-0-2 | REV. 3 | CONTROL SYSTEM DIAGRAM |
| 5610-T-0-3 | REV. 3 | CONTROL SYSTEM DIAGRAM |
| 5614-M-3036 | SH. 1 | SAMPLE SYSTEM - RHR |
| 5614-M-3047 | SH. 1 | CHEMICAL & VOLUME CONTROL SYSTEM |

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE ENG. NO. 5610-M-3000 SH. 2.
 2. DELETED.
 3. VALVE 4-887 SHALL BE UNLOCKED AND THROTTLED TO LIMIT RHR PUMP RUNOUT ONLY DURING REFUELING MODE WHEN TRANSFERRING CAVITY WATER BACK TO THE REACTOR.
 4. MOV-4-872 TO OPEN ONLY 2 1/2" TO AVOID RHR PUMP RUNOUT DURING ALTERNATE RHR COOLING.
 5. INTERLOCKS FOR MOV-4-750: a) PT-4-425 LOOP "B" NOT LEC ABOVE 525 PSIG PREVENTS OPENING VALVE. b) IF VALVE IS OPEN, PT-4-425 "B" CLOSURE VALVE IF RCS PRESSURE RISES ABOVE 525 PSIG. c) MOV-4-750 CANNOT BE OPENED IF 4-8513 OR 4-8623 ON RHR SYSTEM IS OPEN. d) AUTO-VALVE CLOSING CAN BE MANUALLY OVER-RIDDEN IF PRESSURE IS LESS THAN 525 PSIG AND OHS IS IN LOW PRESSURE MODE.
 6. SEALED IN AS SHOWN.
 7. VALVE MOV-4-758 IS FLOW LIMITED BY A MECHANICAL STOP TO JET RUNOUT FLOW DURING REGULATION TO 3600 OPH. THE MECHANICAL STOP LIMITS VALVE STROKE TO 1 1/2". FOR MECHANICAL LETTER FPL-M-1214 DATED JUNE 7, 1972.
 8. ALL PIPING ON THIS DRAWING IS WITHIN DESIGN/DO BOUNDARIES UNLESS OTHERWISE NOTED.
 9. INS = INSIDE MISSILE BARRIER.
 10. OHS = OUTSIDE MISSILE BARRIER.
 11. HIGH POINT OF RHR SYSTEM FOR MONITORING.
 12. HANDWHEELS ARE LOCKED ON MOV-4-862 A & B.
 13. A 3/16" HOLE IS DRILLED IN RCS SIDE OF DISK TO PROVIDE A RELIEF PATH.
 14. MOV-4-872 HAS A 1/8" HOLE DRILLED IN "DOWNSTREAM" DISC FOR WATER DISC RELIEF.

FOR INFORMATION ONLY

SI APERTURE CARD

Also Available On Aperture Card

| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|--|----|-----|-----|-----|----------|--|----|-----|-----|
| 1 | 03-11-83 | ISSUED AS-BUILT FOR DOR-TPM-93-058 | | | | 10 | 09-25-83 | ISSUED AS-BUILT FOR DOR-TPM-93-309 AND DOR-TPM-345 | | | |
| 2 | 06-05-81 | THIS DRAWING SUPERSEDES DRAWINGS: 5610-M-368, 5610-M-470-5 SH. 2, 5610-M-1300, 5610-M-470-5 SH. 4, 5610-M-370, 5610-M-450-53, 5610-M-470-5 SH. 3, 5610-M-470-45 SH. 2, 5610-M-470-45 SH. 4 | | | | 9 | 08-08-83 | ISSUED AS-BUILT FOR DOR-TPM-93-242 | | | |
| 3 | 06-05-81 | FOR DOR-TPM-91-044, ISSUED AS-BUILT FOR DOR-TPM-91-136 AND ISSUED INTO THE FPL SYSTEM FOR DOR-TPM-91-044 | | | | 8 | 04-08-83 | ISSUED AS-BUILT FOR PC/M 93-002 AND PC/M 93-046 | | | |
| 4 | 06-05-81 | THIS DNG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DNG SYSTEM FOR DOR-TPM-91-044 | | | | 7 | 06-05-81 | THIS DNG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DNG SYSTEM FOR DOR-TPM-91-044 | | | |

| TURKEY POINT NUCLEAR UNIT 4 | | | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | | | |
|------------------------------|--|--|--|--|--|--|--|
| P & ID | | | | DRAWING NUMBER | | | |
| RESIDUAL HEAT REMOVAL SYSTEM | | | | 5614-M-3050 | | | |
| SHEET 1 | | | | REV 10 | | | |

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SI
APERTURE
CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

POD

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
 2. DELETED.
 3. NO CONNECTIONS ARE PERMITTED TO THE VENT PORTS OF SOLIDWELD VALVES SY-4-2805, SY-4-2806, SY-4-2807 AND SY-4-2808.
 4. VALVES CV-4-2826 AND CV-4-2819 CAN BE OPENED USING KEY LOCK SWITCH IN CONTROL RM TO OVERRIDE S' CLOSURE SIGNAL.
 5. THE PENETRATION COOLING FANS AND MO-4-3424 ARE ALL PART OF SYSTEM 58 - PENETRATION COOLING SYSTEM.

REFERENCE DRAWINGS:

| | |
|-------------------|---------------------------------------|
| 5610-M-3041 SH. 1 | WASTE DISPOSAL SYSTEM |
| 5610-M-3094 SH. 1 | CONTAINMENT POST ACCIDENT EVALUATION |
| 5610-M-3060 SH. 1 | AUXILIARY BUILDING VENTILATION SYSTEM |

THIS DRAWING SUPERSEDES DRAWINGS:

| | |
|---------------------|---------|
| 5610-M-8 | REV. 19 |
| 5610-M-11 | REV. 55 |
| 5610-M-500-27 SH. 1 | REV. 19 |
| 5610-M-1292 | REV. 1 |
| 5610-M-1295 | REV. 9 |
| 5610-M-344 | REV. 6 |

NOTE: THIS DWG IS MADE FROM:

| | |
|-----------------------------|---------|
| FPL POD 5610-T-E-4534 SH. 1 | REV. 45 |
| FPL POD 5610-T-E-4534 SH. 2 | REV. 22 |

| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

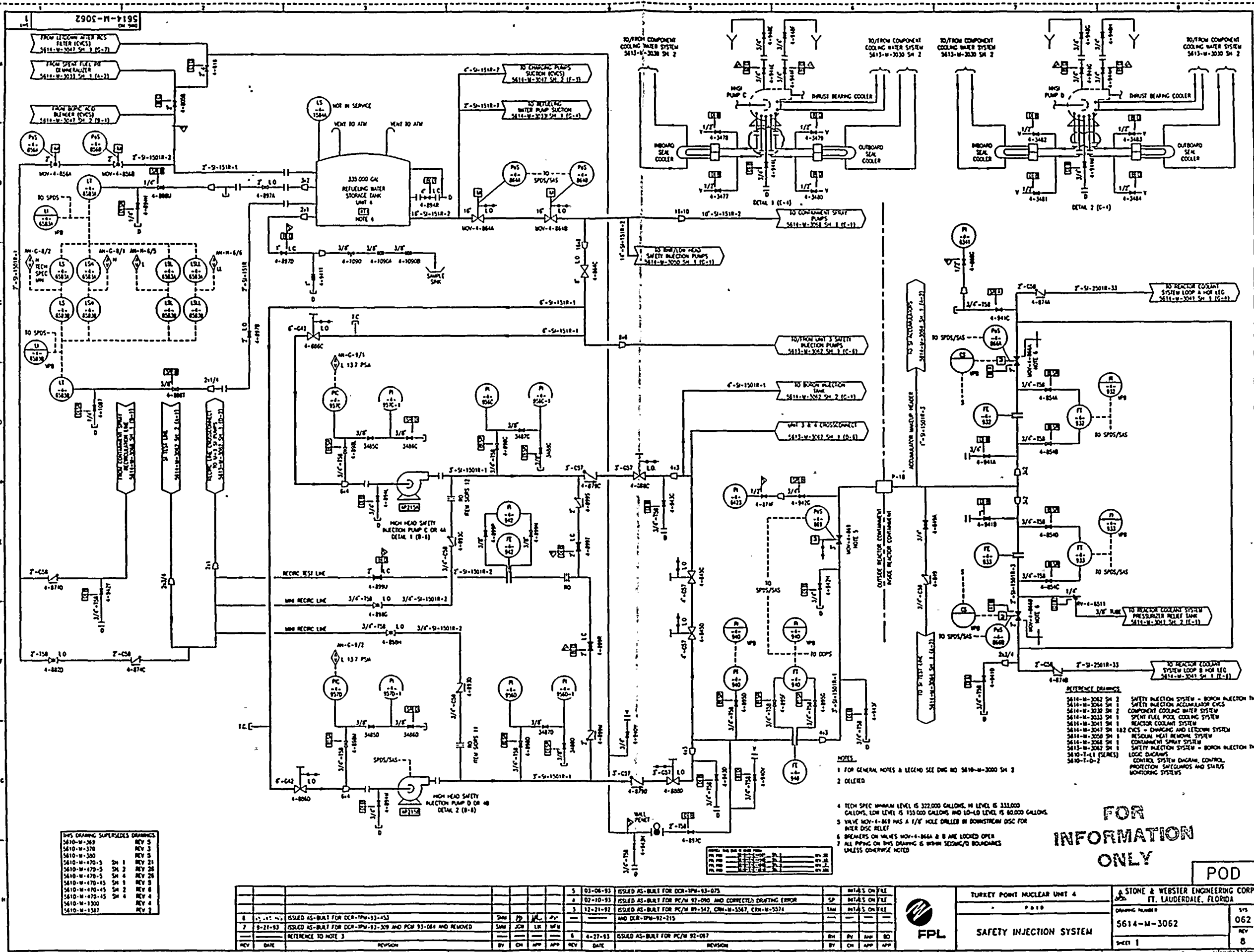
| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

| REV | DATE | REVISION |
|-----|----------|---|
| 8 | 09-20-93 | ISSUED AS-BUILT FOR DCR-IPM-93-309. |
| 7 | 04-19-93 | INCORPORATED CEN-M-5783 FOR PC/M 93-046. |
| 6 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 93-002, 93-046 AND DCR-IPM-93-123. |
| 5 | 02-07-93 | ISSUED AS-BUILT FOR PC/M 92-090. |
| 4 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 AND CEN-M-5567. |
| 3 | | ADDED 5610-T-E-4534 SH. 2 TO MAKE FROM BLOCK. |

940.1260381-70

1992-1993



SI
APERTURE
CARD

Also Available On
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INFORMATION
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POD

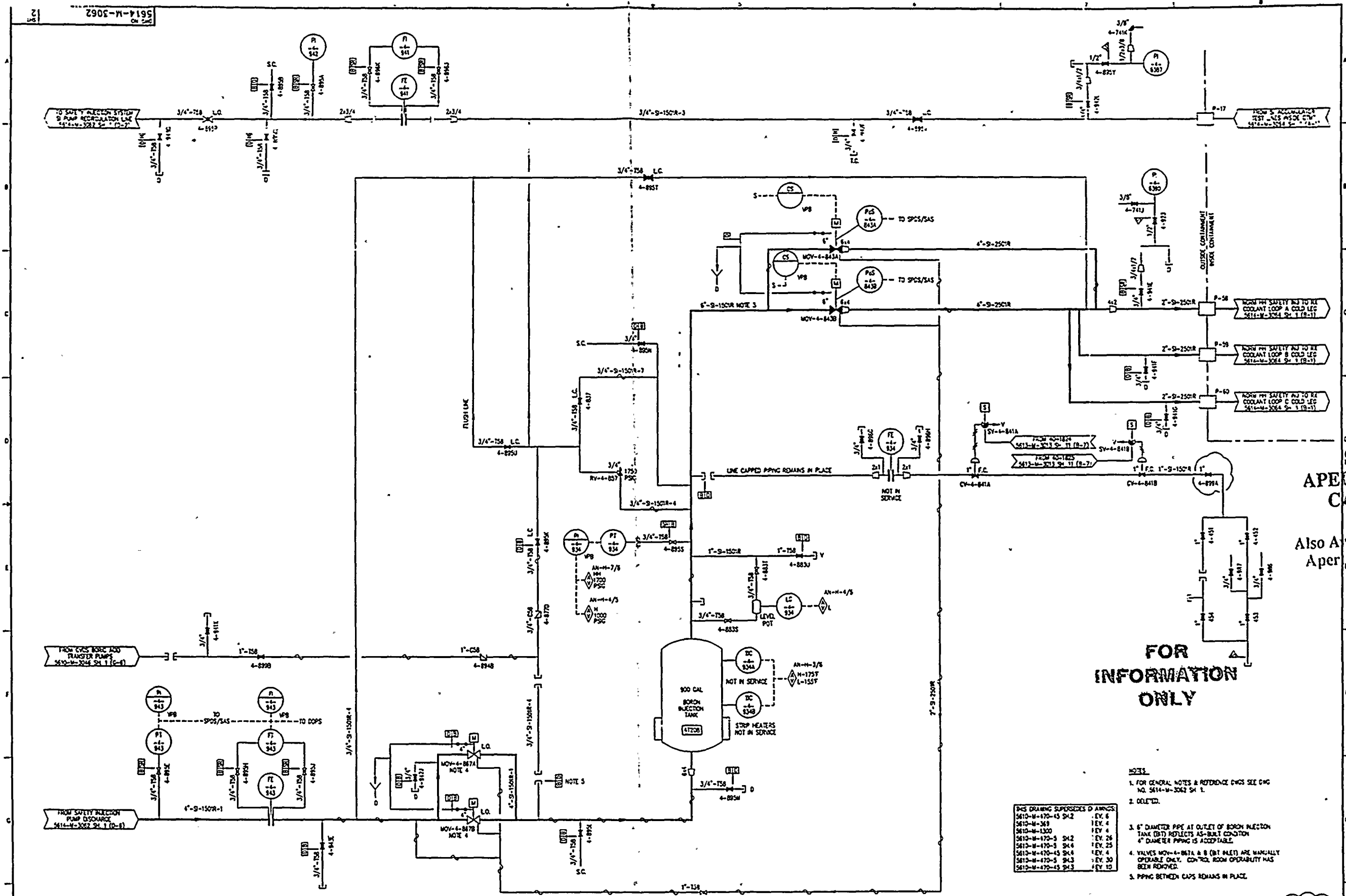
| THIS DRAWING SUPERSEDES DRAWINGS | |
|----------------------------------|-------|
| 5610-W-303 | REV 5 |
| 5610-W-308 | REV 5 |
| 5610-W-309 | REV 5 |
| 5610-W-310 | REV 5 |
| 5610-W-311 | REV 5 |
| 5610-W-312 | REV 5 |
| 5610-W-313 | REV 5 |
| 5610-W-314 | REV 5 |
| 5610-W-315 | REV 5 |
| 5610-W-316 | REV 5 |
| 5610-W-317 | REV 5 |
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| 5610-W-320 | REV 5 |
| 5610-W-321 | REV 5 |
| 5610-W-322 | REV 5 |
| 5610-W-323 | REV 5 |
| 5610-W-324 | REV 5 |
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| 5610-W-334 | REV 5 |
| 5610-W-335 | REV 5 |
| 5610-W-336 | REV 5 |
| 5610-W-337 | REV 5 |
| 5610-W-338 | REV 5 |
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| 5610-W-393 | REV 5 |
| 5610-W-394 | REV 5 |
| 5610-W-395 | REV 5 |
| 5610-W-396 | REV 5 |
| 5610-W-397 | REV 5 |
| 5610-W-398 | REV 5 |
| 5610-W-399 | REV 5 |
| 5610-W-400 | REV 5 |

| REV | DATE | REVISION | BY | CHK | APP | REV | DATE | REVISION | BY | CHK | APP |
|-----|----------|---|-----|-----|-----|-----|----------|---|-----|-----|-----|
| 1 | 03-08-93 | ISSUED AS-BUILT FOR DCR-IPM-93-075 | SHM | JD | JK | 1 | 03-08-93 | ISSUED AS-BUILT FOR DCR-IPM-93-075 | SHM | JD | JK |
| 2 | 07-10-93 | ISSUED AS-BUILT FOR PC/M 93-090 AND CORRECTED DRAWING ERROR | SHM | JD | JK | 2 | 07-10-93 | ISSUED AS-BUILT FOR PC/M 93-090 AND CORRECTED DRAWING ERROR | SHM | JD | JK |
| 3 | 12-21-93 | ISSUED AS-BUILT FOR PC/M 93-347, CWM-93-347, CWM-93-347 | SHM | JD | JK | 3 | 12-21-93 | ISSUED AS-BUILT FOR PC/M 93-347, CWM-93-347, CWM-93-347 | SHM | JD | JK |
| 4 | 04-27-93 | ISSUED AS-BUILT FOR PC/M 93-097 | SHM | JD | JK | 4 | 04-27-93 | ISSUED AS-BUILT FOR PC/M 93-097 | SHM | JD | JK |

| | | | |
|-----------------------------|--|-----------------------------------|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP. | |
| SAFETY INJECTION SYSTEM | | FL. LAUDERDALE, FLORIDA | |
| 5614-W-3062 | | SHEET 1 | |
| REV 8 | | 062 | |

9401260881-72

1940-1941



FOR
INFORMATION
ONLY

- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5614-M-3062 SH 1.
 2. DELETED.
 3. 6" DIAMETER PIPE AT OUTLET OF BORON INJECTION TANK (BT) REFLECTS AS-BUILT CONDITION. 4" DIAMETER PIPING IS ACCEPTABLE.
 4. VALVES MOV-4-B67A & B (BT ALLET) ARE MANUALLY OPERABLE ONLY. CONTROL ROOM OPERABILITY HAS BEEN REMOVED.
 5. PIPING BETWEEN CAPS REMAINS IN PLACE.

| THIS DRAWING SUPERSEDES DOWNSHIPS | |
|-----------------------------------|---------|
| 5610-M-470-45 SH 2 | REV. 6 |
| 5610-M-369 | REV. 4 |
| 5610-M-1300 | REV. 4 |
| 5610-M-470-5 SH 2 | REV. 26 |
| 5610-M-470-3 SH 4 | REV. 25 |
| 5610-M-470-45 SH 4 | REV. 4 |
| 5610-M-470-5 SH 3 | REV. 30 |
| 5610-M-470-45 SH 3 | REV. 12 |

| REV | DATE | DESCRIPTION | BY | CHK | APP | APP | REV | DATE | DESCRIPTION | BY | CHK | APP | APP |
|-----|----------|---|----|-----|-----|-----|-----|------|-------------|----|-----|-----|-----|
| 1 | 10-17-91 | THIS DRAWING SUPERSEDES DRAWINGS 5610-M-470-45 SH 2, 5610-M-369, 5610-M-1300, 5610-M-470-5 SH 2, 5610-M-470-3 SH 4, 5610-M-470-45 SH 4, 5610-M-470-5 SH 3 FOR DOR-TPW-91-044. | | | | | | | | | | | |
| 2 | 12-21-92 | ISSUED AS-BUILT FOR PC/M 91-092 & 91-142. | | | | | | | | | | | |
| 3 | 2-7-93 | ISSUED AS-BUILT FOR PC/M 92-090. | | | | | | | | | | | |
| 4 | 03-06-93 | ISSUED AS-BUILT FOR DOR-TPW-93-075. | | | | | | | | | | | |
| 5 | 04-01-93 | ISSUED AS-BUILT FOR PC/M'S 92-011, PC/M 93-046 AND DOR-TPW-93-133. | | | | | | | | | | | |
| 6 | 9-20-93 | ISSUED AS-BUILT FOR PC/M-93-084. | | | | | | | | | | | |

| | | | |
|--|-------------------------|-------------|-------|
| | SAFETY INJECTION SYSTEM | 5614-M-3062 | 062 |
| | REV 6 | REV 6 | REV 6 |
| | REV 2 | REV 2 | REV 2 |

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

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7905-M-1195

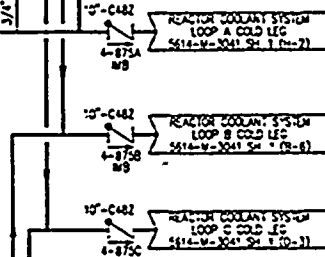
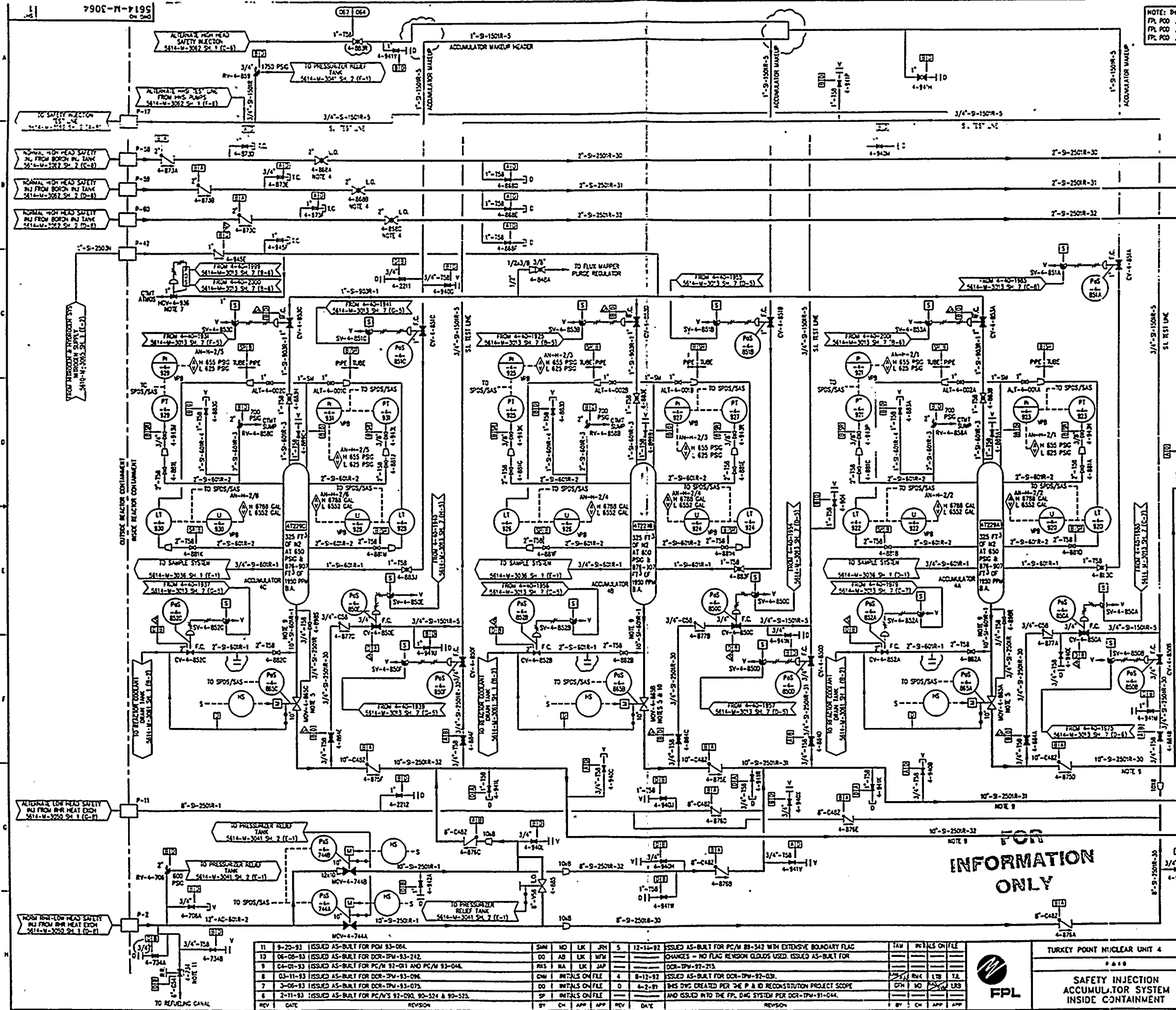
5614-M-3064

NOTE: THIS DWG IS MADE FROM
 FPL POC 5610-T-1-0501 SH. 1 REV. 30
 FPL POC 5610-T-1-0510 SH. 2 REV. 22
 FPL POC 5610-T-1-0515 SH. 3 REV. 22

THIS DRAWING SUPERSEDES DRAWINGS
 5610-M-3064 REV. 3
 5610-M-3070 REV. 3
 5610-M-3075 SH. 4 REV. 4
 5610-M-3075 SH. 5 REV. 10
 5610-M-3075 SH. 6 REV. 11
 5610-M-3075 SH. 7 REV. 26
 5610-M-3075 SH. 8 REV. 22
 5610-M-3075 SH. 9 REV. 4

SI APERTURE CARD

Also Available On
Aperture Card



- NOTES
1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2.
 2. DELETED.
 3. ALL COMPONENTS ON THIS DRAWING ARE WITHIN THE SSC/DO BOUNDARY.
 4. REQUIRED FOR CONTAINMENT LEAK RATE TEST.
 5. BRANCHES ON VALVES MOV-4-BSSAB, & C ARE LOCKED OPEN EXCEPT WHEN GOING TO COLD SHUTDOWN.
 6. MB = INSIDE MISSILE BARRIER.
 7. H2 SUPPLY VENT VALVE MOV-4-B36 OPENS AT 100 PSIG LAZER SEAT.
 8. DELETED.
 9. SCHEDULE 160 PIPE.
 10. INTERLOCK RELIEF VALVE NOT REQUIRED PER PDM 89-278 ATTACH. 5.
 11. A 3/16" HOLE IS BORED IN DISC TO PROVIDE A RELIEF PATH FROM BETWEEN DISCS IN DIRECTION OF ARROW.

REFERENCE DRAWINGS

| | |
|-------------------|-------------------------|
| 5614-M-3036 SH. 1 | SAMPLE SYSTEM |
| 5614-M-3041 SH. 1 | REACTOR COOLANT SYSTEM |
| 5614-M-3041 SH. 2 | REACTOR COOLANT SYSTEM |
| 5614-M-3050 SH. 1 | PRESSURIZER |
| 5614-M-3050 SH. 1 | RESIDUAL HEAT REMOVAL |
| 5614-M-3062 SH. 1 | SAFETY INJECTION SYSTEM |
| 5614-M-3063 SH. 1 | NITROGEN & HYDROGEN |
| 5614-M-3061 SH. 1 | WASTE DISPOSAL SYSTEM |

POD

| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|--|----|-----|-----|----------|--|-------------|----|-----|----------|
| 1 | 9-20-93 | ISSUED AS-BUILT FOR PDM 83-064 | DO | AS | LK | 12-15-92 | ISSUED AS-BUILT FOR PC/M 89-542 WITH EXTENSIVE BOUNDARY FLAG | TAM | DO | AS | LK |
| 2 | 06-08-93 | ISSUED AS-BUILT FOR DCR-TPM-93-242 | DO | AS | LK | 06-08-93 | CHANGES - NO FLAG REVISION CLOUDS USED. ISSUED AS-BUILT FOR DCR-TPM-93-215 | DO | AS | LK | 12-15-92 |
| 3 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 91-011 AND PC/M 93-044 | DO | AS | LK | 04-01-93 | ISSUED AS-BUILT FOR DCR-TPM-92-031 | DO | AS | LK | 04-01-93 |
| 4 | 03-11-93 | ISSUED AS-BUILT FOR DCR-TPM-93-096 | DO | AS | LK | 03-11-93 | THIS DWG CREATED PER THE P & ID RECONSTRUCTION PROJECT SCOPE AND ISSUED INTO THE FPL DWG SYSTEM FOR DCR-TPM-91-044 | DO | AS | LK | 03-11-93 |
| 5 | 3-08-93 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | DO | AS | LK | 3-08-93 | | DO | AS | LK | 3-08-93 |
| 6 | 2-11-93 | ISSUED AS-BUILT FOR PC/M'S 92-090, 92-024 & 92-025 | DO | AS | LK | 2-11-93 | | DO | AS | LK | 2-11-93 |

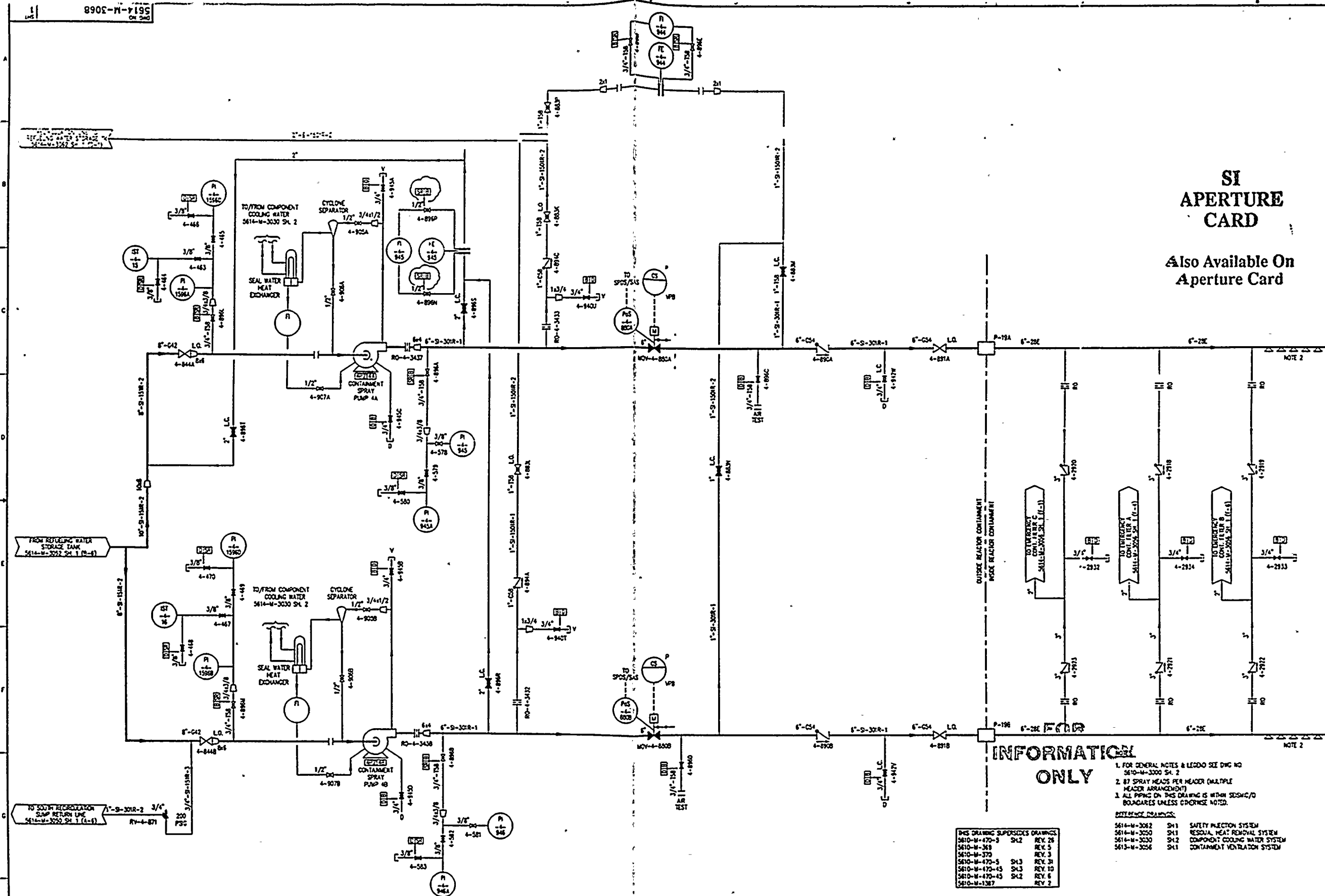
| | | | |
|--|--|-----------------------------------|--|
| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP. | |
| SAFETY INJECTION ACCUMULATOR SYSTEM INSIDE CONTAINMENT | | FL. LAUDERDALE, FLORIDA | |
| Drawing Number | | 5614-M-3064 | |
| Sheet | | 11 | |

940.1260331 - 74

0101500291

SI APERTURE CARD

Also Available On
Aperture Card



INFORMATION ONLY

1. FOR GENERAL NOTES & LEGEND SEE DWG NO. 5610-M-3000 SH. 2
 2. 87 SPRAY HEADS PER HEAD (MULTIPLE HEADS ARRANGEMENT)
 3. ALL PIPING ON THIS DRAWING IS WITHIN SSCM/C/O BOUNDARIES UNLESS OTHERWISE NOTED.
- SYSTEMS:**
- | | | |
|-------------|-----|--------------------------------|
| 5614-M-3062 | SH1 | SAFETY INJECTION SYSTEM |
| 5614-M-3050 | SH1 | RESOLV. HEAT REMOVAL SYSTEM |
| 5614-M-3050 | SH2 | COMPONENT COOLING WATER SYSTEM |
| 5613-M-3056 | SH1 | CONTAINMENT VENTILATION SYSTEM |

THIS DRAWING SUPERSEDES DRAWINGS:

| | | |
|---------------|-----|---------|
| 5610-M-470-3 | SH2 | REV. 28 |
| 5610-M-363 | | REV. 5 |
| 5610-M-370 | | REV. 3 |
| 5610-M-470-5 | SH3 | REV. 31 |
| 5610-M-470-13 | SH3 | REV. 10 |
| 5610-M-470-45 | SH2 | REV. 6 |
| 5610-M-1387 | | REV. 2 |

| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE | REVISION | BY | CHK | APP | APP |
|-----|----------|---|-----|-------|-----|-----|-----|------|----------|----|-----|-----|-----|
| 6 | 09-20-83 | ISSUED AS-BUILT FOR DCR-TPM-93-308 | DM | MO | LK | WFL | | | | | | | |
| 5 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-011 AND PC/M 93-046 | RVS | AB | LK | SAP | | | | | | | |
| 4 | 03-08-83 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | DO | BM/LS | ON | LE | | | | | | | |
| 3 | 12-21-82 | ISSUED AS-BUILT FOR PC/M 89-542, CRN-M-5547, AND DCR-TPM-92-213 | TAM | PM/LS | ON | LE | | | | | | | |
| 0 | 6-2-81 | THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | DM | MO | WFL | JPS | | | | | | | |
| | | AND ISSUED INTO THE SSCM/C/O BOUNDARIES FOR DCR-TPM-91-046. | | | | | | | | | | | |

NOTES: THIS DWG IS A REVISION OF DWG NO. 5610-M-3000 SH. 2



TURKEY POINT NUCLEAR UNIT 4
P 110
CONTAINMENT SPRAY SYSTEM

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5614-M-3068
SHEET 1

POD

9401260381-75

1889081049

SI APERTURE CARD

Also Available On
Aperture Card

- NOTES
1. FOR GENERAL NOTES & LEGEND SEE DWG NO 5610-M-3000 SH 2 AND FOR REFERENCE DRAWINGS SEE 5610-M-3072 SH 3
 2. OLEDED
 3. FOR CONTROL AND ACTUATION OF MAIN STEAM ISOLATION VALVES SEE DRAWING NO 5610-M-3072 SHEET 3
 4. VALVES LABELED A BWP J (EXCLUDING I) ARE AT STEAM TRAPS ONLY THESE VALVES ARE TAGGED IN THE PLANT FOR OPERATIONS USE ONLY ALPHA DESIGNATIONS ARE PRECEDED BY ASSOCIATED STEAM TRAP MARK NUMBERS THE OPERATIONS FULL TAG NUMBERS ARE NOT SHOWN ON DRAWING
 5. DELETED

FOR
INFORMATION
ONLY

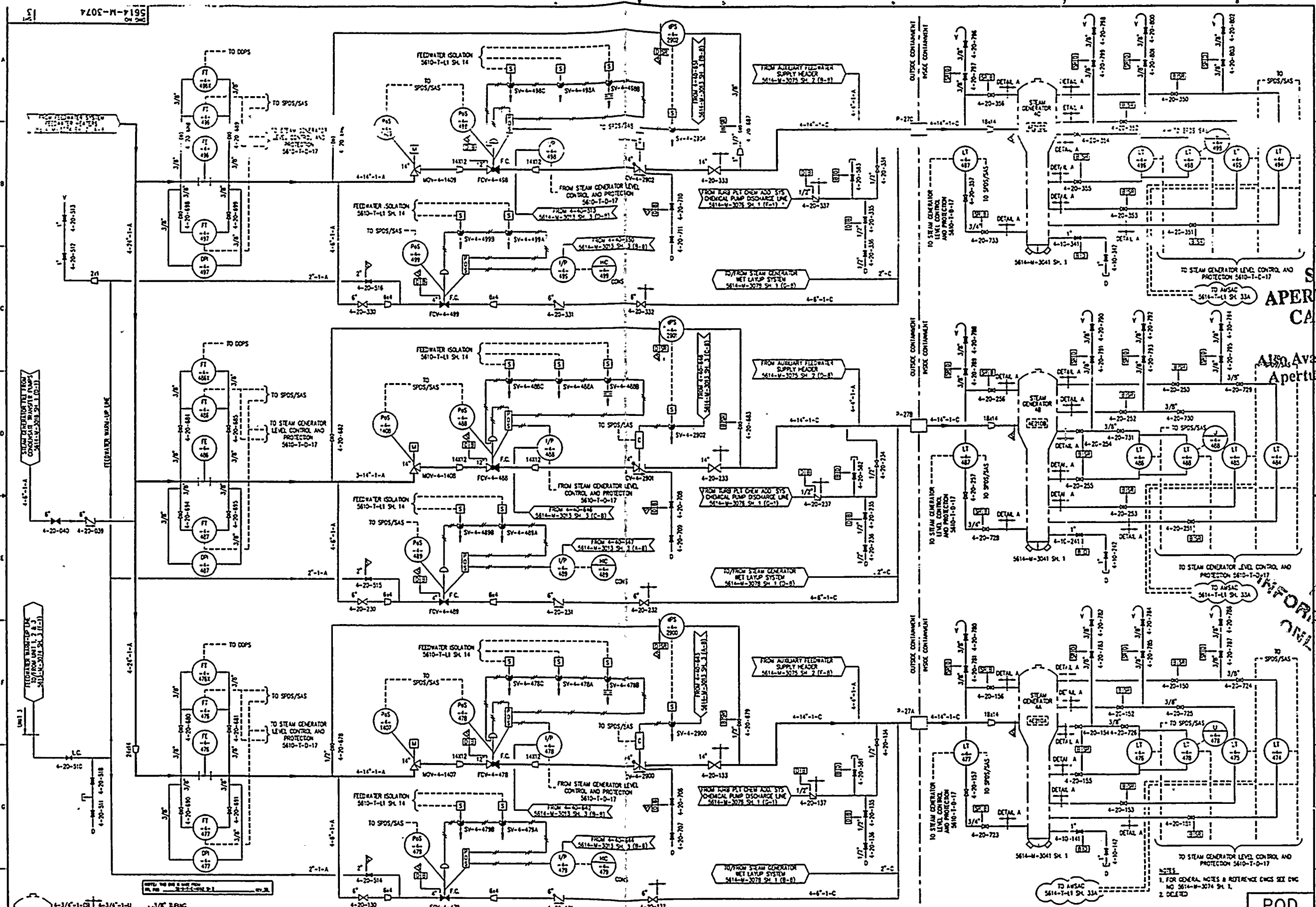
POD

| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|--|----|-----|-----|-----|----------|--|----|-----|-----|
| 1 | 04-01-83 | ISSUED AS-BUILT FOR PC/M 92-023 & DCR-BW-93-005 | CO | CH | RTW | 15 | 11-12-83 | ISSUED AS-BUILT FOR DCR-BW-93-433 | RT | CH | RTW |
| 2 | 03-08-83 | ISSUED AS-BUILT FOR DCR-BW-93-075 | CO | CH | RTW | 16 | 12-16-83 | ISSUED AS-BUILT FOR PC/M 93-074 | RT | CH | RTW |
| 3 | 2-28-83 | ISSUED AS-BUILT FOR DCR-BW-92-308 | RT | CH | RTW | 17 | 9-20-83 | ISSUED AS-BUILT FOR DCR-BW-93-309 | RT | CH | RTW |
| 4 | 2-11-83 | ISSUED AS-BUILT FOR PC/M 92-092, 89-435, 89-542 & 89-455 | SP | CH | RTW | 18 | 9-1-83 | ISSUED AS-BUILT FOR DCR-BW-93-309 (PARALLEL) | RT | CH | RTW |
| 5 | 12-21-82 | ISSUED AS-BUILT FOR PC/M 91-542 AND CH-M-3569 WITH EXTENSIVE | CH | CH | RTW | 19 | 06-12-83 | ISSUED AS-BUILT FOR PC/M 93-131 | RT | CH | RTW |
| 6 | | CHANGES TO BOUNDARY FLAGS - NO FLAG REVISION CLOUDS USED | CH | CH | RTW | 20 | 05-12-83 | ISSUED AS-BUILT FOR PC/M 89-456 | RT | CH | RTW |



| | |
|-----------------------------|---|
| TURKEY POINT NUCLEAR UNIT 4 | STONE & WEBSTER ENGINEERING CORP
FT. LAUDERDALE, FLORIDA |
| P 0 0 0 | DRAWING NUMBER |
| MAIN STEAM SYSTEM | 5614-M-3072 |
| | SHEET 1 |
| | SYN 072 |
| | REV 15 |

9401260331-76



| REV | | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|------|------------------------------------|----|-----|-----|-----|----------|--|-----|-------|---------|-----|----------|--|-----|-------|---------|
| 1 | 12-23-92 | | ISSUED AS-BUILT FOR PC/M 89-542 | DM | MD | LSB | 8 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-148 FINAL | SP | AS | LSK | 10 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-148 FINAL | SP | AS | LSK |
| 2 | 9-3-92 | | ISSUED AS-BUILT FOR DCR-TPM-92-213 | DM | MD | LSB | 7 | 03-06-93 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | KT | INTLS | ON FILE | 11 | 03-06-93 | ISSUED AS-BUILT FOR DCR-TPM-93-075 | KT | INTLS | ON FILE |
| 3 | 7-9-92 | | ISSUED AS-BUILT FOR DCR-TPM-92-014 | DM | MD | LSB | 6 | 2-10-93 | ISSUED AS-BUILT FOR DCR-TPM-92-288, DCR-TPM-91-263 AND PC/M 92-09C | TAM | INTLS | ON FILE | 12 | 2-10-93 | ISSUED AS-BUILT FOR DCR-TPM-92-288, DCR-TPM-91-263 AND PC/M 92-09C | TAM | INTLS | ON FILE |
| 4 | 09-20-93 | | ISSUED AS-BUILT FOR DCR-TPM-93-309 | DM | MD | LSK | 5 | 5-11-91 | THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | RSS | VS | MS | 13 | 5-11-91 | THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | RSS | VS | MS |
| 5 | 8-16-93 | | ISSUED AS-BUILT FOR DCR-TPC-93-288 | DM | MD | LSK | 4 | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-TPM-91-137. | BY | VS | MS | 14 | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-TPM-91-137. | BY | VS | MS |

APERTURE CARD

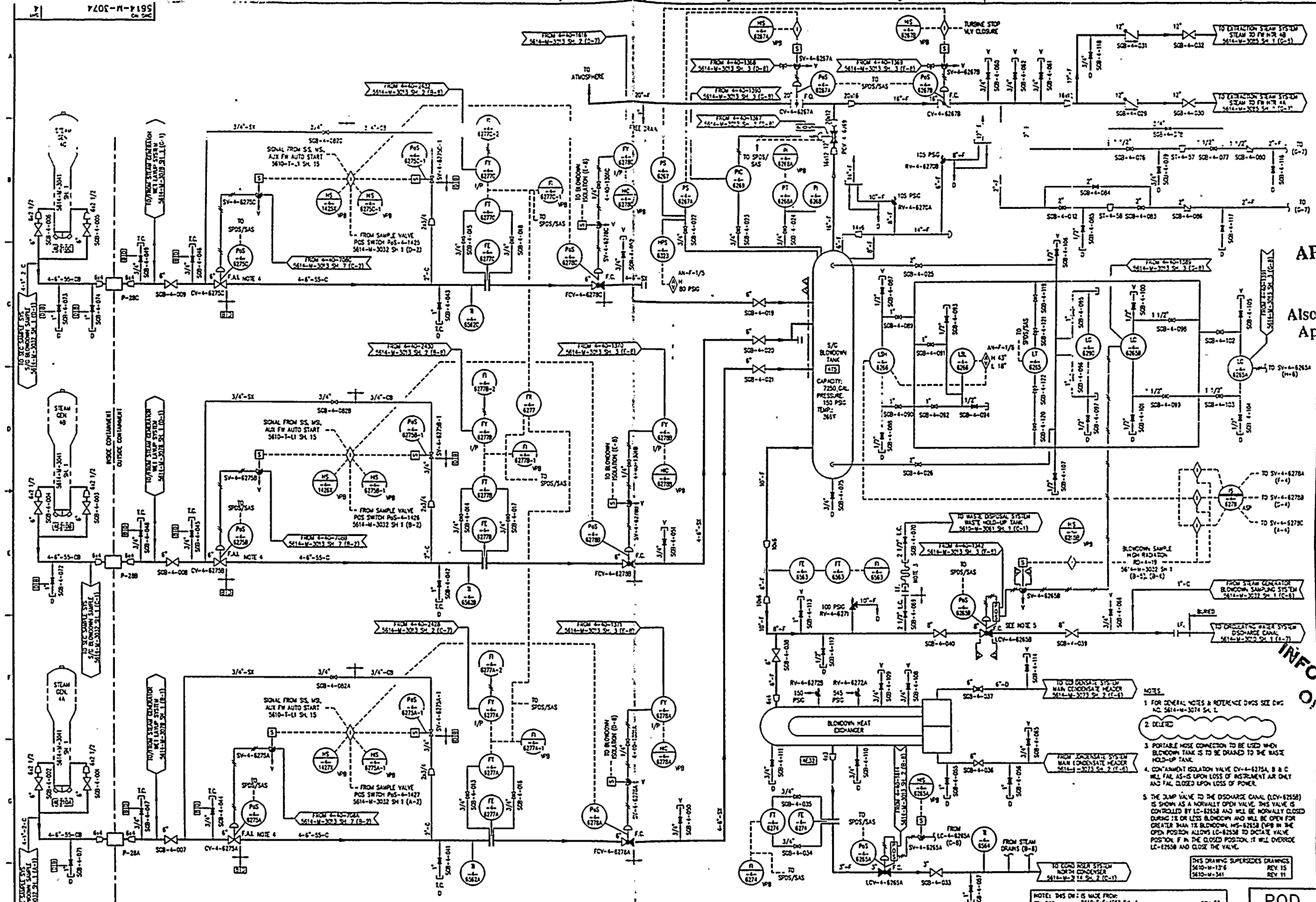
Also Available On Aperture Card

FOR INFORMATION ONLY

POD

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| TURKEY POINT NUCLEAR UNIT 4 | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | |
| DRAWING NUMBER
5614-M-3074 | | SHEET
074 | |
| SCALE
3/8" = 1'-0" | | REV
11 | |

9401260391



SI
APERTURE
CARD
Also Available On
Aperture Card

FOR INFORMATION ONLY

| | | | | | | | | | | | | |
|-----|----------|---|-----|-------|---------|-----|-----|---------|---|-----|------|----------|
| 8 | 04-19-93 | INCOMP. CON-M-5780 FOR PC/M 93-002 | JW | CM | LK | JH | 2 | 7-9-92 | ISSUED AS-BUILT FOR DCR-PM-92-014 | REV | DATE | REVISION |
| 7 | 04-01-93 | ISSUED AS-BUILT FOR PC/M'S 92-148, 93-002 & DCR-PM-93-133 | CJC | CM | RFR | JAP | | | | | | |
| 6 | 3-5-93 | ISSUED AS-BUILT FOR DCR-PM-93-075 | KT | INTLS | ON FILE | | | | | | | |
| 5 | 2-10-93 | ISSUED AS-BUILT FOR PC/M'S 92-090 & 92-113, AND DCR-PM-91-600 | SP | INTLS | ON FILE | | | 9-20-93 | ISSUED AS-BUILT FOR DCR-PM-93-303 | | | |
| 4 | 12-23-92 | ISSUED AS-BUILT FOR PC/M 92-542 AND DCR-PM-92-213 | CM | INTLS | ON FILE | | | 5-14-91 | THIS DWG CREATED PER THE P & O RECONSTRUCTION PROJECT SCOPE | | | |
| 3 | 8-12-92 | ISSUED AS-BUILT FOR DCR-PM-92-031 | CM | RK | LK | TE | | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-PM-91-137 | | | |
| REV | DATE | REVISION | BY | CHK | APP | APP | REV | DATE | REVISION | BY | CHK | APP |

NOTE: THIS Dwg IS MADE FROM:
FPL POD 3613-T-1-002 SH. 4

REV. 32

POD

TURKEY POINT NUCLEAR UNIT 4

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5614-M-3074

SHEET 4

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SI APERTURE CARD

Also Available On
Aperture Card

FOR
INFORMATION
ONLY

- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG NO 5610-M-3000 SH 2.
 2. VALVES LABELED A, B, OR C ARE AT STEAM TRAPS ONLY. THESE VALVES ARE LABELED IN THE PLANT FOR OPERATIONS USE ONLY. ALPHA DESIGNATIONS ARE PRECEDED BY ASSOCIATED STEAM TRAP MARK NUMBERS (THE OPERATIONS FULL TAG NUMBERS ARE NOT SHOWN ON DRAWING).
 3. EACH STEAM TRAP VALVE, UPON OPENING, SIGNALS ALL UNIT 4 AFW CY SOLENOID VALVES (SEE 5614-M-3075 SH 2).

| REFERENCE DRAWINGS | DESCRIPTION |
|--------------------|---|
| 5610-M-3075 SH 2 | AUXILIARY FEEDWATER SYSTEM |
| 5610-M-3075 SH 3 | AUXILIARY FEEDWATER SYSTEM |
| 5610-M-3065 SH 1 | NITROGEN SUPPLY TO AFW CONTROL VALVES |
| 5610-M-3075 SH 1 | NITROGEN & HYDROGEN SYSTEMS |
| 5610-M-3075 SH 2 | ALPHA DESIGNATION SYSTEM |
| 5610-M-3075 SH 2 | TURBINE DRIVE FOR AFW PUMPS |
| 5610-M-3075 SH 2 | AUXILIARY FEEDWATER SYSTEM |
| 5610-M-3075 SH 2 | AUXILIARY FEEDWATER PUMPS |
| 5610-M-3075 SH 2 | CONDENSER SYSTEM |
| 5610-M-3075 SH 2 | MAN STEAM SYSTEM |
| 5610-M-3075 SH 2 | MAN FEEDWATER SYSTEM |
| 5610-M-3075 SH 2 | AUXILIARY STEAM SYSTEM |
| 5610-M-3075 SH 2 | LOGIC DIAGRAM, AUXILIARY FEEDWATER PUMP START |

THIS DRAWING SUPERSEDES DRAWINGS:
5610-M-1 SH 2
5610-M-1302

NOTE: THIS DWG IS MADE FROM
FPL PCD 5610-E-4001 SH 4
REV 30

POD

| REV | DATE | DESCRIPTION | BY | CHK | APP | REV | DATE | DESCRIPTION | BY | CHK | APP |
|-----|----------|---|----|-----|-----|-----|----------|---|----|-----|-----|
| 1 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 | | | | 1 | 12-14-92 | ISSUED AS-BUILT FOR PC/M 89-542 | | | |
| 2 | 7-9-92 | ISSUED AS-BUILT FOR DCR-IPM-92-030 | | | | 2 | 7-9-92 | ISSUED AS-BUILT FOR DCR-IPM-92-030 | | | |
| 3 | 2-20-92 | THIS DRAWING SUPERSEDES DWG 5610-M-1 SH 2 FOR DCR-IPM-91-249 & 5610-M-1302 FOR DCR-IPM-91-137. ISSUED AS-BUILT FOR DCR-IPM-91-249 | | | | 3 | 2-20-92 | THIS DRAWING SUPERSEDES DWG 5610-M-1 SH 2 FOR DCR-IPM-91-249 & 5610-M-1302 FOR DCR-IPM-91-137. ISSUED AS-BUILT FOR DCR-IPM-91-249 | | | |
| 4 | 5-14-91 | THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | | | | 4 | 5-14-91 | THIS DWG CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | | | |
| 5 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-063 AND PC/M 93-046 | | | | 5 | 04-01-93 | ISSUED AS-BUILT FOR PC/M 92-063 AND PC/M 93-046 | | | |



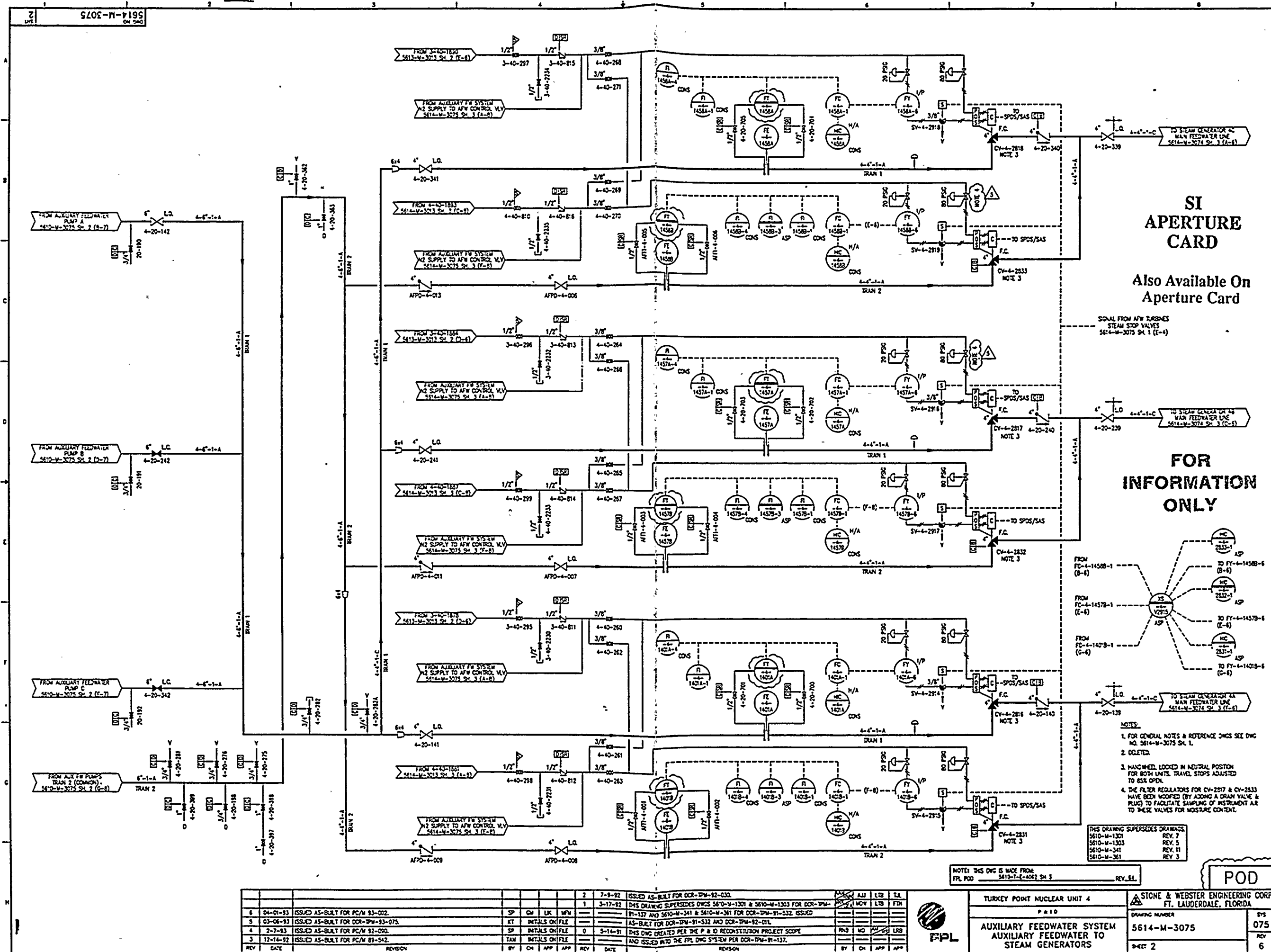
TURKEY POINT NUCLEAR UNIT 4
AUXILIARY FEEDWATER SYSTEM
STEAM TO AUXILIARY FEEDWATER
PUMP TURBINES

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA
DRAWING NUMBER
5614-M-3075
SHEET 1

075
REV 6

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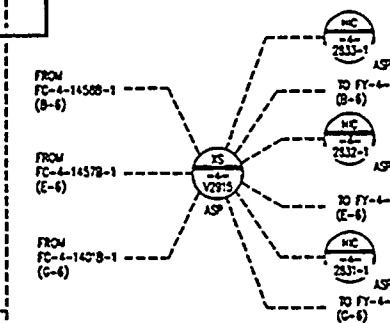


SI APERTURE CARD

**Also Available On
Aperture Card**

SS14-M-3075 SH. 1 (E-6)

**FOR
INFORMATION
ONLY**



- NOTES:
1. FOR GENERAL NOTES & REFERENCE DWGS SEE DWG NO. 5614-M-3075 SL. 1.
 2. DELETED.
 3. HANDWHEEL LOCKED IN NEUTRAL POSITION FOR BOTH UNITS. TRAVEL STOPS ADJUSTED TO 85% OPEN.
 4. THE FILTER REGULATORS FOR CV-2517 & CV-2533 HAVE BEEN MODIFIED (BY ADDING A DRAIN VALVE & PLUG) TO FACILITATE SAMPLING OF INSTRUMENT AIR TO THESE VALVES FOR MOISTURE CONTENT.

| | |
|----------------------------------|---------|
| THIS DRAWING SUPERSEDES DRAWINGS | |
| 5610-M-1301 | REV. 7 |
| 5610-M-1303 | REV. 5 |
| 5610-M-341 | REV. 11 |
| 5610-M-361 | REV. 3 |

POD

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| TURKEY POINT NUCLEAR UNIT 4 |
| Paid |
| AUXILIARY FEEDWATER SYSTEMS
AUXILIARY FEEDWATER
STEAM GENERATORS |

STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA

DRAWING NUMBER
5614-M-3075
PAGE 2

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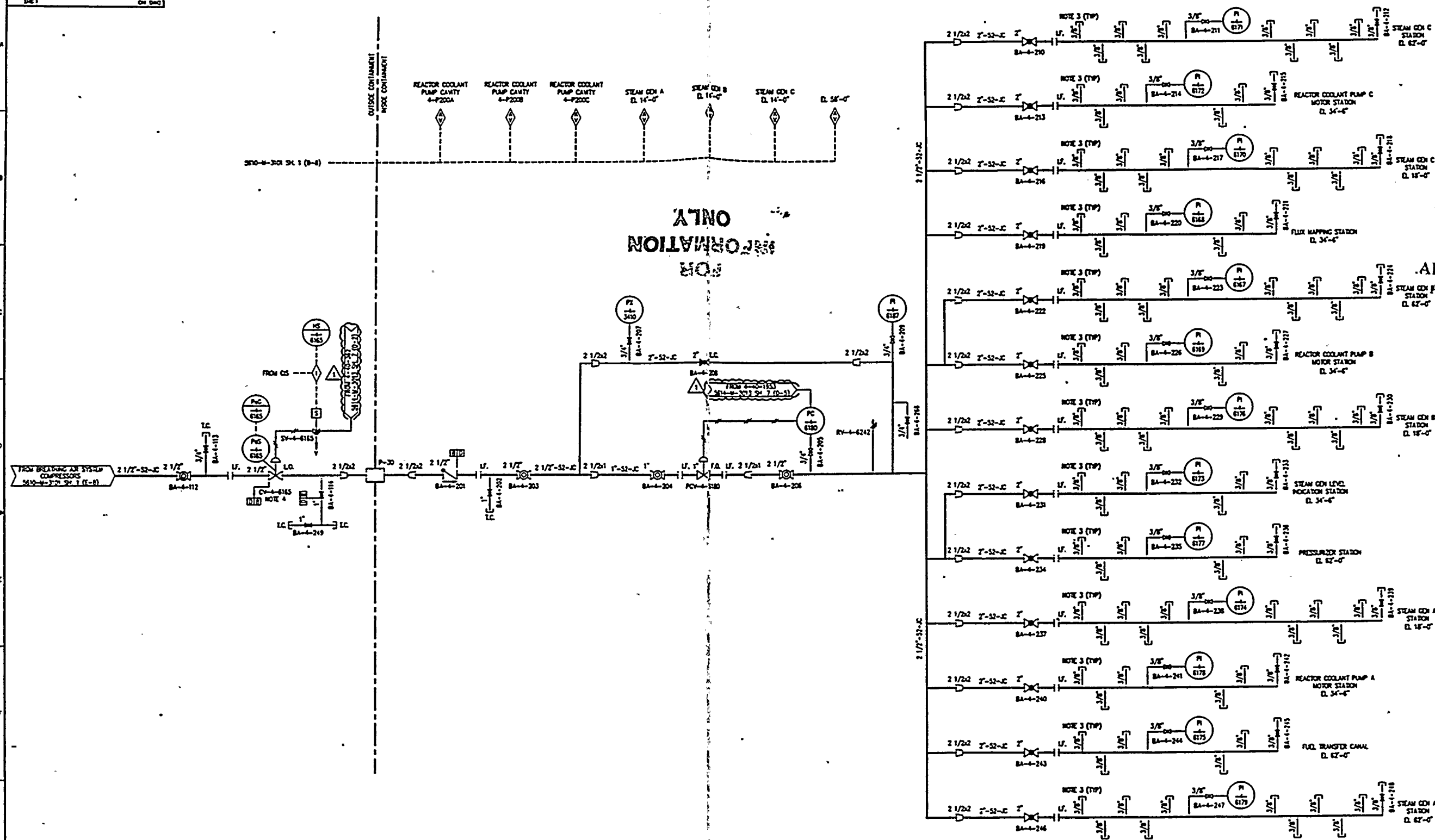
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1015-M-3101

NO INFORMATION ONLY

SI APERTURE CARD

Also Available On Aperture Card



4. HAND LOCKED OPEN ONLY WHEN PLANT IS SHUTDOWN AND COOLED DOWN AND AIR IS USED IN REACTOR COOLANT PUMP CAVITY. VALVE WILL FAIL AS-IS UPON LOSS OF INSTRUMENT AIR. MUST CHECK VALVE MODEL NO. B-4C-1 ADDED TO VALVE ACTUATOR PHENOMENON CIRCUIT FOR PC/M NOS. BA-12/13.
5. VALVE POSITIONS SHOWN ON THIS DRAWING ARE FOR NORMAL OPERATION OF THE BREATHING AIR SYSTEM AND DO NOT REPRESENT VALVE POSITIONS MAINTAINED DURING NORMAL PLANT OPERATION.

1. FOR GENERAL NOTES & LEGEND SEE Dwg NO. 5610-M-3000 SH. 2.
2. DELTA.
3. TYPICAL CONNECTION SHALL CONSIST OF A 3/8" QUICK DISCONNECT COUPLING. THE COUPLING SHALL HAVE ONE-BAY SHUT-OFF, SWIVELING, NON-INTERCHANGEABLE CONNECTION. EXCESS FLOW SHUT-OFF DEVICE AND RELEASE DEVICE TO SEPARATE HALVES. PROVIDE DUST CLIPS FOR COUPLER AND NIPPLE. NIPPLE SHALL BE 3/8" L.D.

REFERENCE DRAWING
5610-M-3000 SH. 1

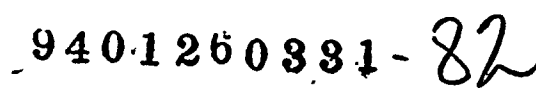
BREATHING AIR SYSTEM -
COMPRESSOR

940.1260331-81

NOTE: THIS Dwg IS MADE FROM
FPL PCD 5610-M-1213 SH. 1 REV. 11.

| TURKEY POINT NUCLEAR UNIT 4 | | | | STONE & WEBSTER ENGINEERING CORP.
FT. LAUDERDALE, FLORIDA | | | |
|-----------------------------|--------|--|----|--|-----|-----|-----|
| P. 110 | | | | DRAWING NUMBER | | | |
| BREATHING AIR SYSTEM | | | | 5614-M-3101 | | | |
| DISTRIBUTION | | | | SHEET 1 | | | |
| REV | DATE | REVISION | BY | CH | APP | APP | REV |
| 1 | 2-7-73 | ISSUED AS-BUILT FOR PC/M 92-080 | SP | MA | SP | MA | 101 |
| 2 | 9-3-72 | THIS Dwg CREATED FOR THE P & ID RECONSTRUCTION PROJECT SCOPE | OT | MA | OT | MA | 1 |
| 3 | | AND ISSUED INTO THE FPL Dwg SYSTEM FOR DCR-SPM-92-137. | BY | CH | APP | APP | |

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