

H.A.F.A. INTERNATIONAL, INC.

7545 Central Industrial Drive
Riviera Beach, Florida 33419
(305) 848-5252

October 7, 1987
HII-87-1227
40-40-7
DCC-002 SCOPE

Mr. George Johnson
Nuclear Regulatory Commission
Material Branch
7920 Norfolk Avenue
Mail Stop P-842
Bethesda, MD 20814

SUBJECT: Informal update meeting with NRC Staff Members, Bethesda, MD.

Dear Mr. Johnson:

The following is a recap of the topics that were discussed during our September 30, 1987 meeting.

Attendees:

G. Johnson,	NRC	M. Turnbow,	TVA
W. Hazelton,	NRC	R. Jones,	TVA
D. Smith,	NRC	F. Askwith,	HAFAs
G. Gibbs,	TED	H. Askwith,	HAFAs
E. Caba,	TED		

The following informational topics where Instrumented Inspection Techniques (IIT) will be utilized, was presented by H.A.F.A. Int'l. Inc.:

A. Main Steam Line Testing.

The testing on the Main Steam Lines will be performed while the plant is coming up to mode 3. Standard HAFAs Acoustic Emission Leak Testing will be utilized during this test and will be supplemented with a VT-2 examination. (See Attachment A and A1)

B. Main Steam Blowdown.

The Main Steam Blowdown testing will be performed at Mode 4. Standard HAFAs Acoustic Emission Leak Testing will be utilized during this test and will be supplemented with a VT-2 examination. (See Attachment B)

C. Main Feedwater

The Main Feedwater Testing will be performed at Mode 4. Standard HAFAs Acoustic Emission Leak Testing will be utilized during this test and will be supplemented with a VT-2 examination. (See Attachment C)

Consultants in the Energy Industry

~~8804200091~~ App.



D. Service Water.

The Service Water System Testing will be performed during normal plant operation utilizing IIT and will be supplemented with a VT-2 examination. (See Attachment D)

E. Component Cooling System.

This test will be performed on the main header during Mode 6, utilizing IIT and will be supplemented with a VT-2 examination and the balance of the system will be performed during normal plant operation. (See Attachment E)

F. Decay Heat System.

The Decay Heat System Testing will be performed during Mode 6, utilizing IIT and will be supplemented with a VT-2 examination. (See Attachment F)

G. Residual Heat Removal System.

The R.H.R. Valve & Piping Testing will be at 500 psig utilizing IIT, and supplemented with a VT-2 examination while the plant is coming up to Mode 3. (See Attachment G)

H. Non Isolation Valves.

Piping which has valves that do not perform an isolation function (e.g. governor valves) will be treated as a opened ended system with no leak testing being performed on those valves. (No sketch necessary, generic statement)

We have attached color coded sketches showing the areas of testing (e.g. CCS main header) that will be performed on the systems listed above. It should also be noted that any applicable minor valve repairs or replacement will also be inspected by Volumetric Examination as required by the construction Code of the respective plant.

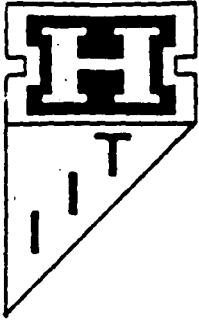
Very truly yours,



H. H. Askwith
Vice President

HHA/dm

cc:	G. Gibbs	TED	W
	E. Caba	TED	W/O
	J. Ewald	TED	W
	D. Weakland	DLC	W
	D. Grabski	DLC	W/O
	K. Grada	DLC	W/O



H.A.F.A. INTERNATIONAL, INC.

7545 Central Industrial Drive
Riviera Beach, Florida 33419
(305) 848-5252

November 12, 1987
HII-87-1255
DLC-002 Scope

Mr. D. Weakland
Duquesne Light Company
Beaver Valley Nuclear Power Station
Post Office Box 4, Mail Drop BV-SAPS
Shippingport, Pennsylvania 15077

SUBJECT: Trip Report on Meeting with Nuclear Regulatory Commission Staff,
Bethesda, Maryland on November 5, 1987

Dear Mr. Weakland:

A meeting was held with NRC staff members in Bethesda, Maryland on November 5, 1987. Those in attendance were as follows:

NRC	HAFA
G. Johnson	F. Askwith
W. Hazelton	H. Askwith

The topics of discussion were reduction of test holding time on the Main Steam, Main Feedwater and Blowdown systems from two hours to ten minutes. The NRC staff members in the meeting agreed that the holding time of two hours was not warranted when performing IIT on the above systems.

Since the Safety Evaluation Report in Topical Report HAFA 135 (P-A) states a two hour holding time, DLC will have to file a letter to the NRC staff with full justification for the holding time reduction.

HAFA will draft the letter for DLC to forward to the NRC on your letterhead justifying the ten minute hold as an acceptable alternative to the two hour hold. This task assignment was discussed and confirmed by Mr. D. Grabski.

Sincerely,

H. H. Askwith
H. H. Askwith
Vice President

HHA/er

cc: Mr. G. Johnson, NRC
Mr. W. Hazelton, NRC

Mr. D. Grabski
Mr. K. Grada



H.A.F.A. INTERNATIONAL,

7645 Central Industrial Drive
Riviera Beach, Florida 33419
(305) 848-5252

REF. 5

MEMORANDUM

February 6, 1986
HII-86-1134-T
PO# 026-Q-93872A-MB

TO: J. Lingenfelcer
FROM: Jon Hallen *JH*
SUBJECT: Meeting with the NRC, Bethesda, Md., February 4, 1986

IN ATTENDANCE:

Mr. George Johnson - NRC
Mr. Horace Shaw - NRC
Dr. C. Y. Cheng - NRC
Mr. Herbert Askwith - HAFA
Mr. Jon Hallen - HAFA

The purpose of the meeting was to discuss the implementation of IIT to the Main Steam supply of the Auxiliary Feedwater turbines.

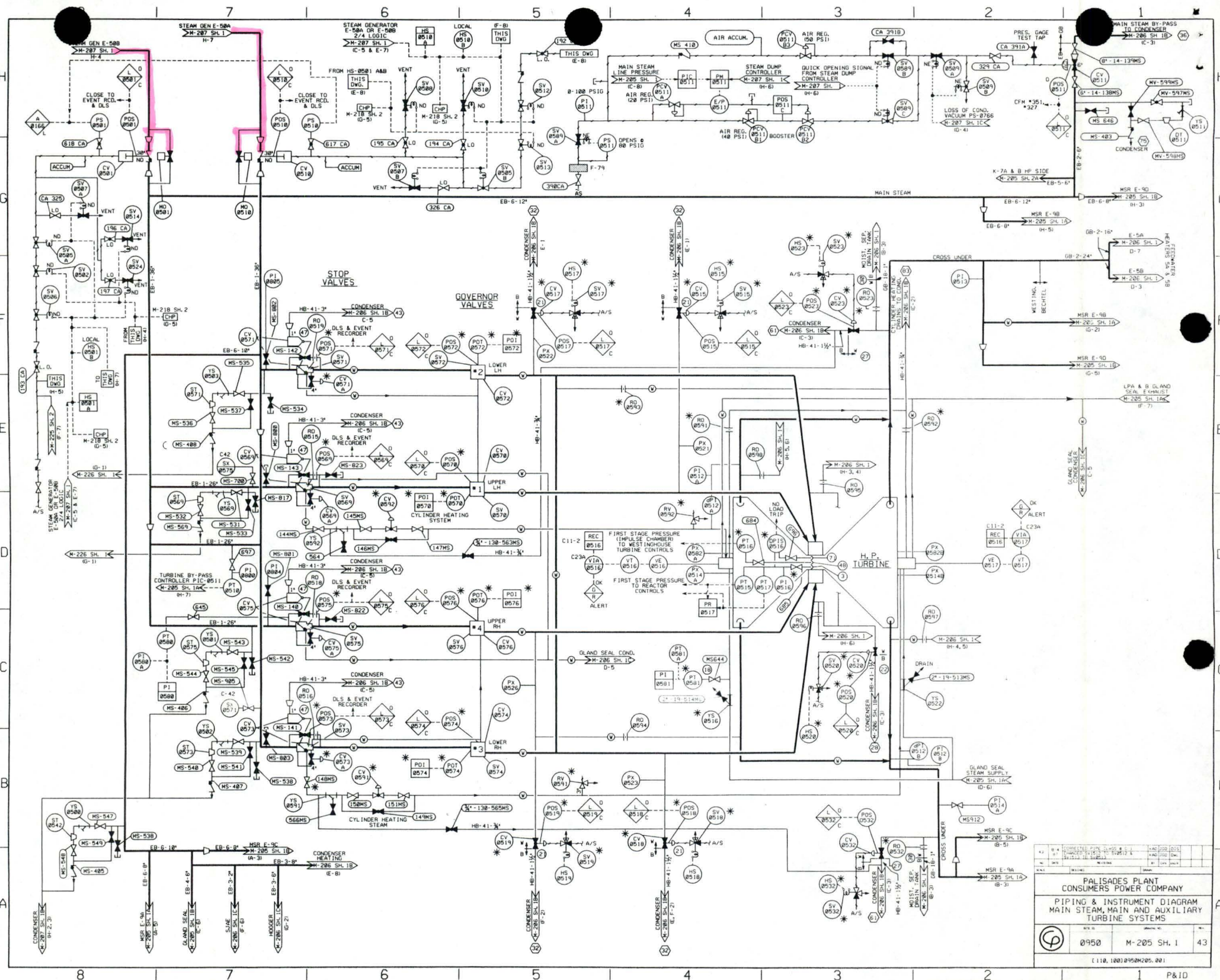
Mr. Askwith was concerned that the HAFA Topical Report 135 (P)(A) did not address the use of IIT for the testing of the replacements and modifications completed on the Main Steam supply of the Auxiliary Feedwater turbines. This testing would involve two (2) phases. The first would check the leak tightness of the check valves in the subsystem. This would be performed by injecting water into the subsystem at a pressure of 1050 psi and measuring the leakage past the check valves. The second phase would use the steam from the Steam Generator during Mode 3 (Hot Stand By) to pressurize the subsystem to normal operating pressure. This would be followed by using IIT and VT-2 examination to test the system piping.

In answer to Mr. Askwith's concerns, Mr. Johnson stated that the HAFA Topical Report 135 (P)(A) covered the ASME Section XI requirements for pressurizing the subsystem since the replacements and modifications are required to be pressure tested. He also suggested that Toledo Edison write an information letter to the NRC describing the methods of testing that will be used for this test.

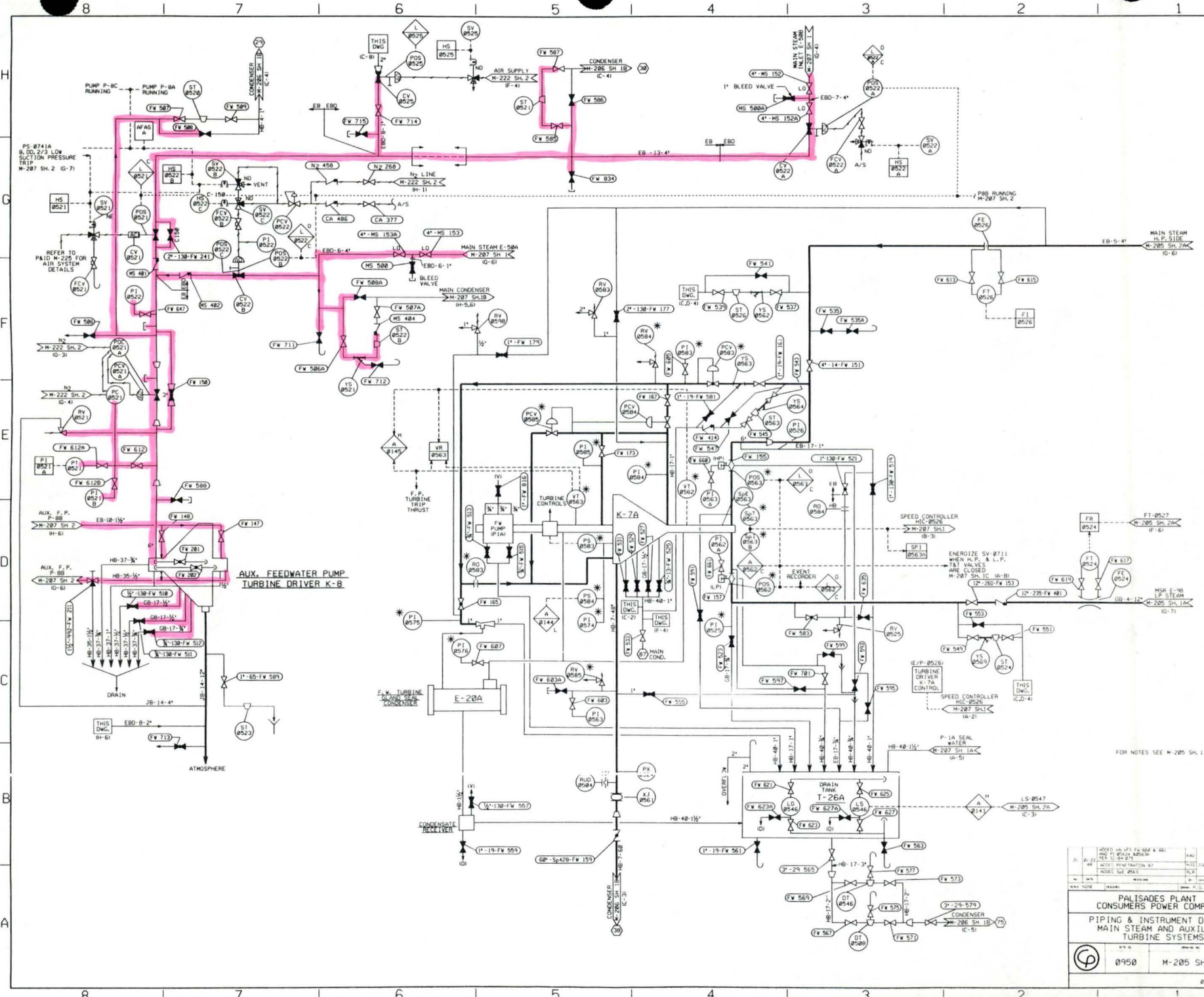
The NRC also suggested that they want a three (3) hour seminar to be held with HAFA and their reviewing staff to discuss code requirements versus practical testing of pumps, valves, and systems concerning pressure testing and leakage limits of LWR's. HAFA will notify the NRC as to the date of this seminar.

JH/mw

cc: Mr. D. Danielson, NRC Region III
Mr. W. Guldemont, NRC Region III
Mr. E. Caba, TED
Mr. J. Ewald, TED
Mr. S. Quennoz, TED
Mr. J. Williams, Jr., TED
Mr. C. Daft, TED
Mr. R. Flood, TED
Mr. C. Ackerman, TED
Mr. T. Bloom, TED
Mr. G. Johnson, NRC
Mr. H. Shaw, NRC
Dr. C. Y. Cheng, NRC

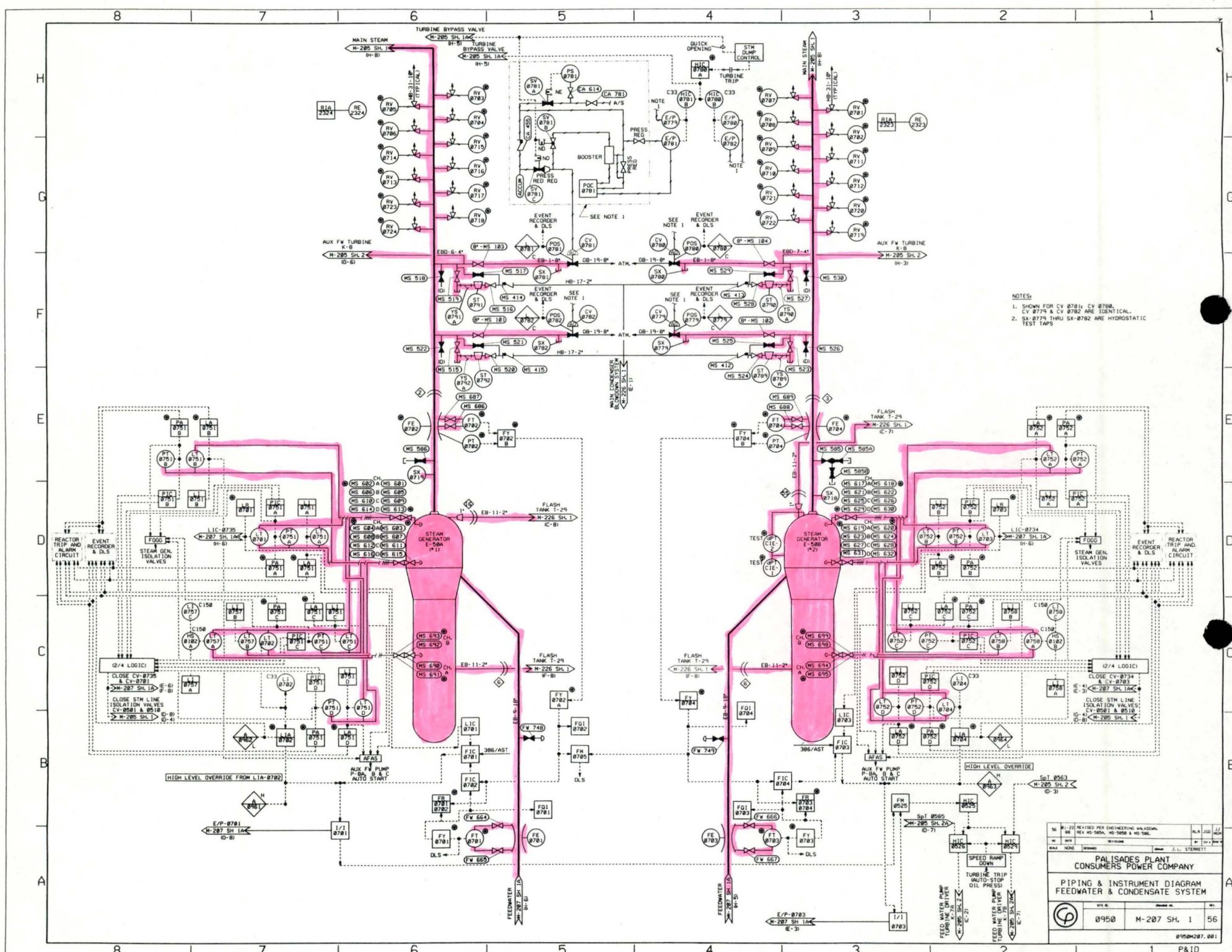


PALISADES PLANT CONSUMERS POWER COMPANY PIPING & INSTRUMENT DIAGRAM MAIN STEAM, MAIN STEAM AUXILIARY TURBINE SYSTEMS			
	0950	M-205 SH. 1	43
(118, 180) (950) (205, 00)			



FOR NOTES SEE M-205 SH. 1

<small> 2001 BY JTG EW 664 A 661 REV. BY JTG 671 DATE 11-24-71 TITLE PIPING AND INSTRUMENT DIAGRAM M-205 SH. 2 </small>			
PALISADES PLANT CONSUMERS POWER COMPANY PIPING & INSTRUMENT DIAGRAM MAIN STEAM AND AUXILIARY TURBINE SYSTEMS			
	0950	M-205 SH. 2	21



NOTES:
 1. SHOWN FOR CV 8781; CV 8780, CV 8778 & CV 8782 ARE IDENTICAL.
 2. SK-8778 THRU SK-8782 ARE HYDROSTATIC TEST TAPS

Q2/4 LOGIC
 CLOSE CV-8735 & CV-8734
 2M-287 SH.15 (E-B)
 CLOSE STM LINE ISOLATION VALVES
 CV-8581 & 8519 (D-B)
 M-285 SH.2 (G-4)

REV	DATE	BY	CHKD	APP'D
1	11-27-77	REVISED PER ENGINEERING WORKSHOP		
2	12-11-77	REV MS-585A, MS-585B & MS-586		
3	01-10-78	REVISED		

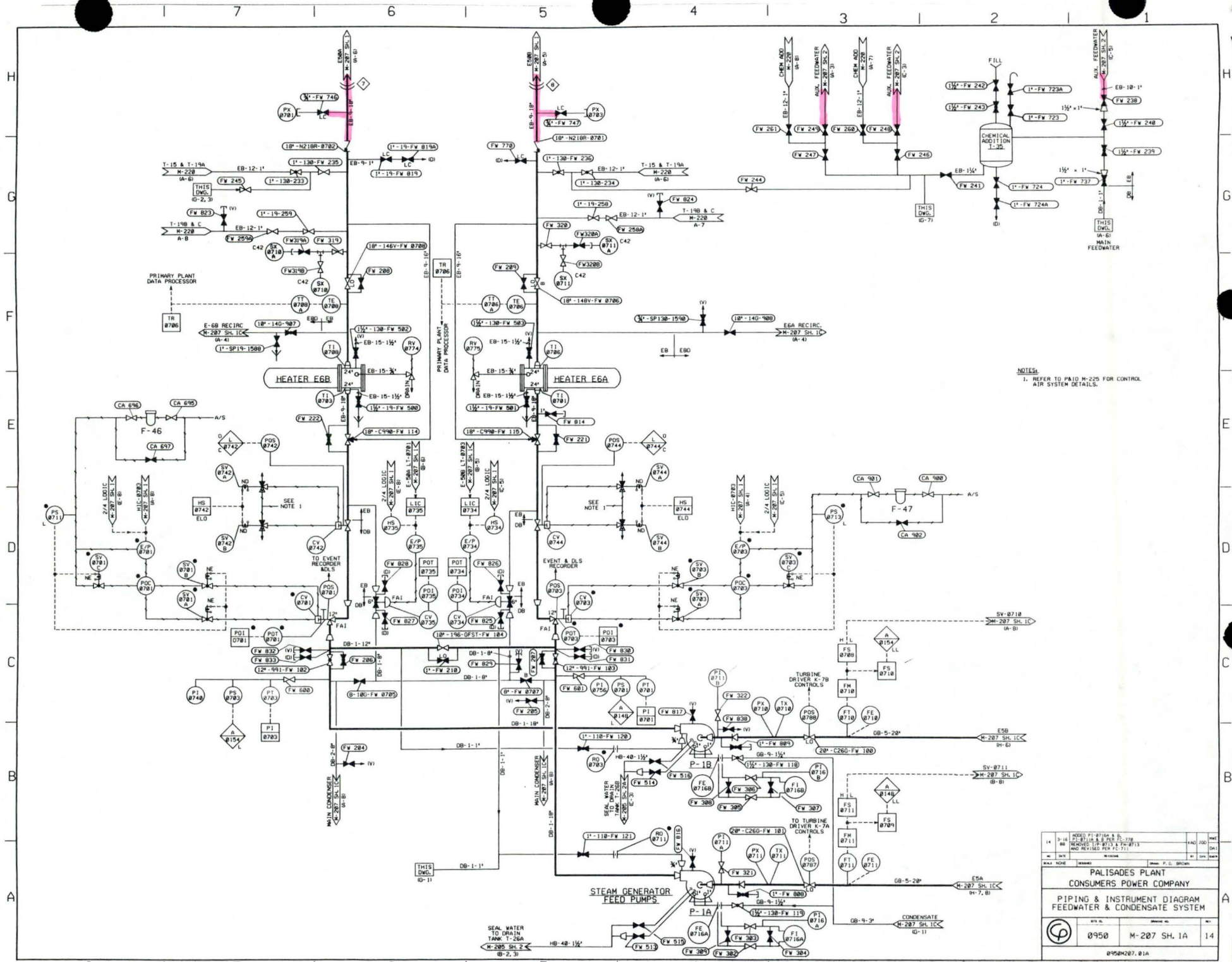
DESIGNED BY: J.L. STERNETT

**PALISADES PLANT
 CONSUMERS POWER COMPANY**

**PIPING & INSTRUMENT DIAGRAM
 FEEDWATER & CONDENSATE SYSTEM**

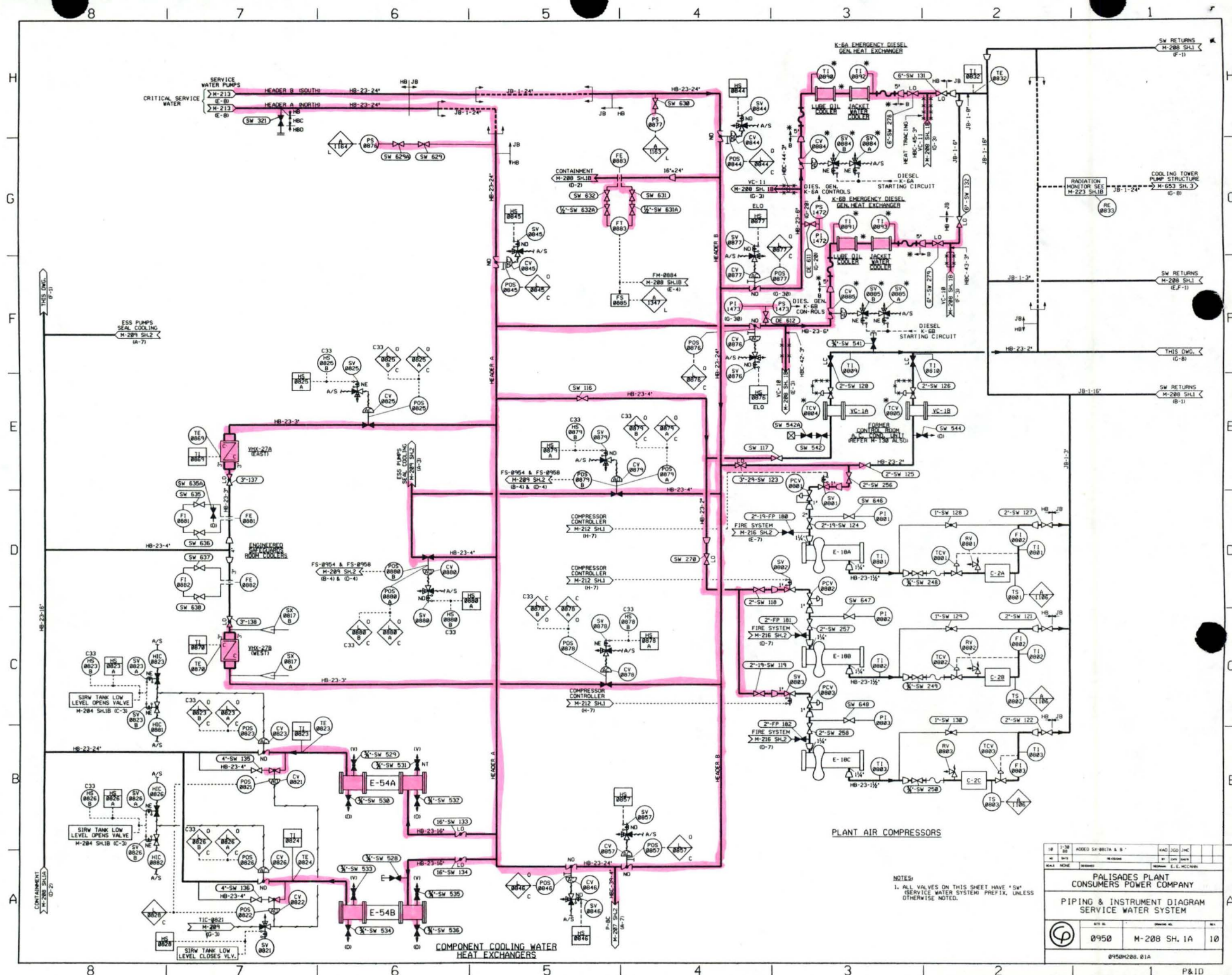
NO. 0950 M-287 SH. 1 56

© 1950-1978 P&ID



NOTES:
 1. REFER TO P&ID M-225 FOR CONTROL AIR SYSTEM DETAILS.

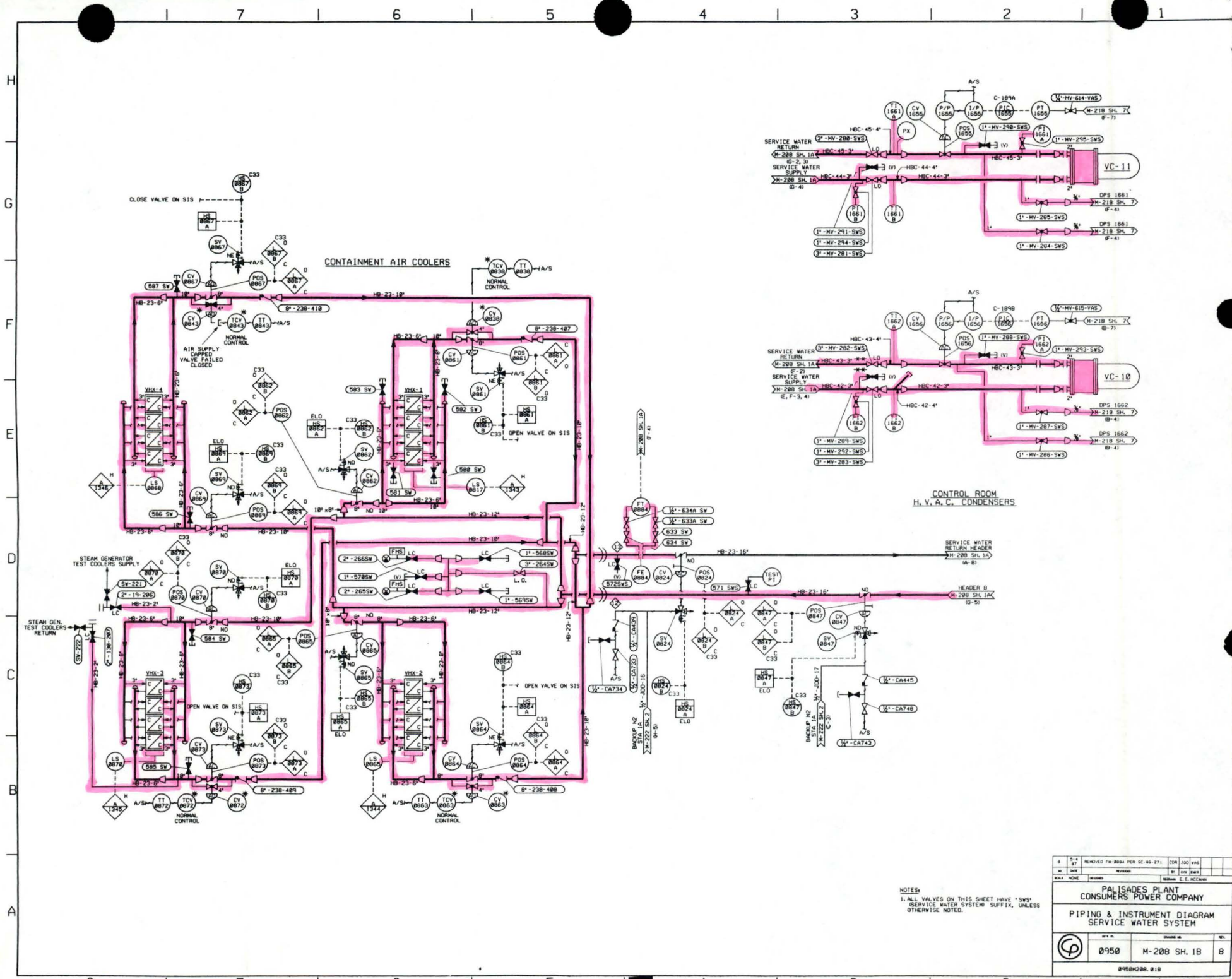
PALISADES PLANT CONSUMERS POWER COMPANY			
PIPING & INSTRUMENT DIAGRAM FEEDWATER & CONDENSATE SYSTEM			
NO. 0950	REV. M-207 SH. 1A	DATE 14	BY 0950/207.01A



PLANT AIR COMPRESSORS

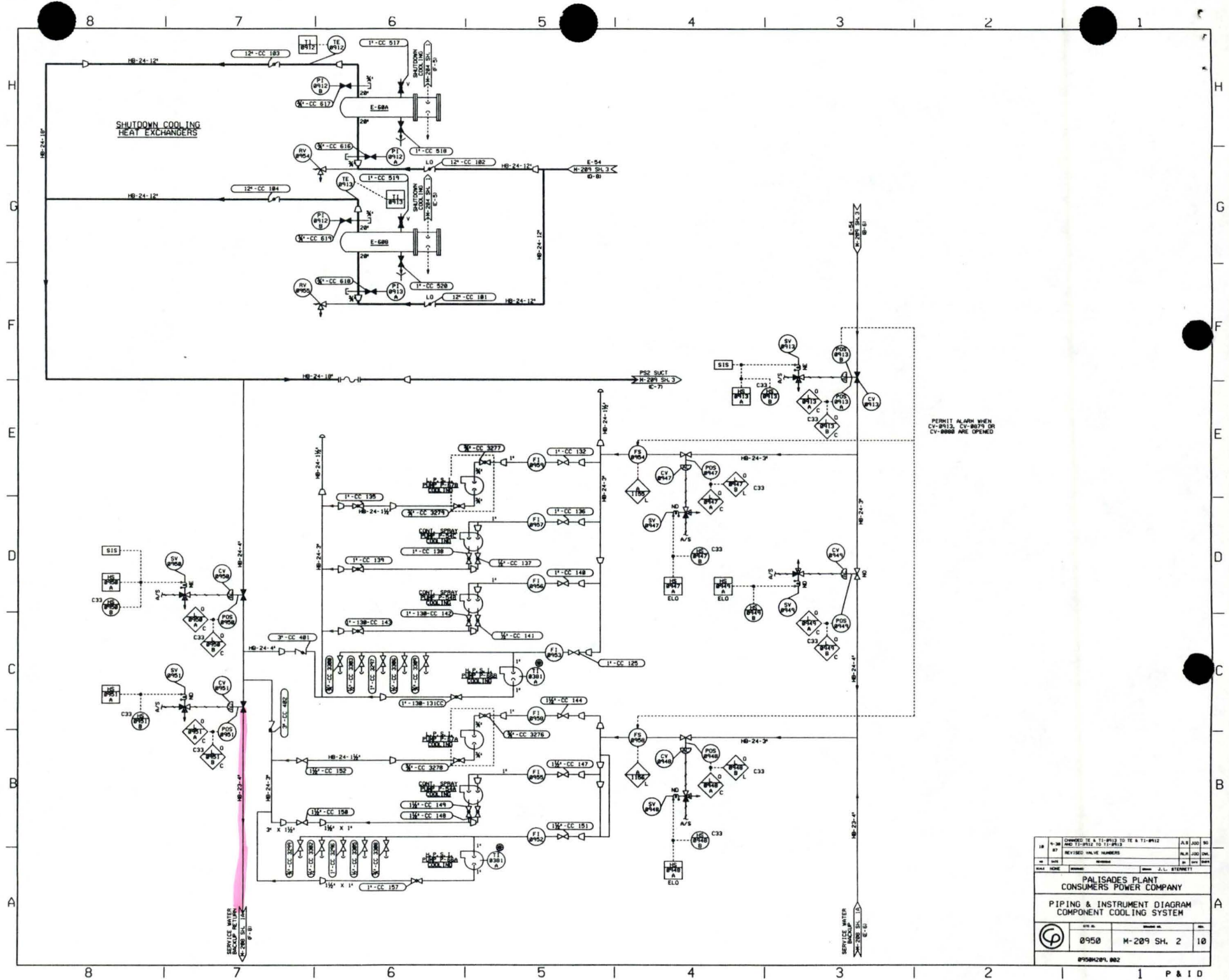
NOTES
 1. ALL VALVES ON THIS SHEET HAVE "SW" (SERVICE WATER SYSTEM) PREFIX, UNLESS OTHERWISE NOTED.

REV	NO	DATE	BY	CHK	APP
PALISADES PLANT CONSUMERS POWER COMPANY					
PIPING & INSTRUMENT DIAGRAM SERVICE WATER SYSTEM					
		0950	M-208 SH. 1A	10	
<small>09500208.01A</small>					

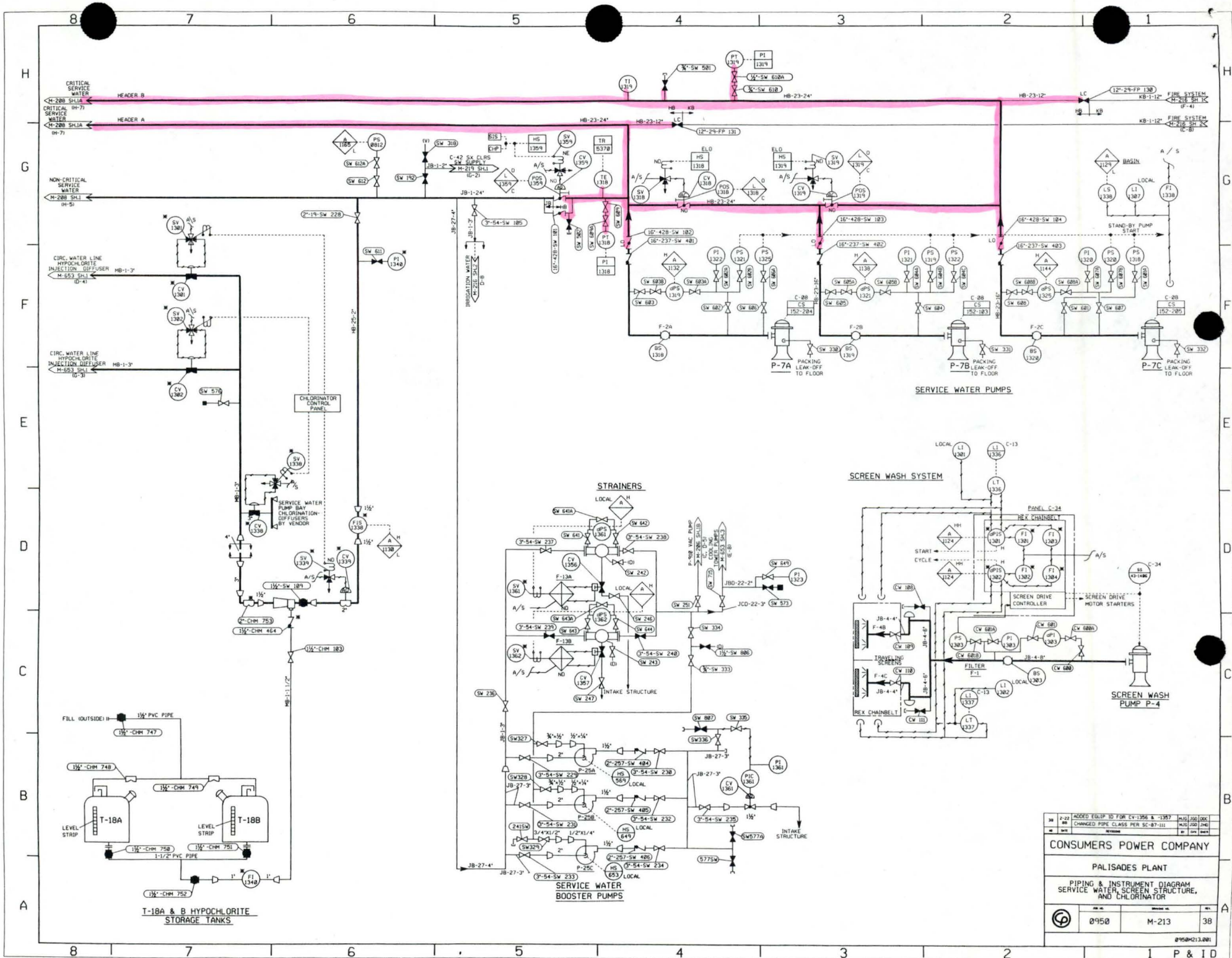


NOTES
 1. ALL VALVES ON THIS SHEET HAVE 'SWS'
 (SERVICE WATER SYSTEM) SUFFIX, UNLESS
 OTHERWISE NOTED.

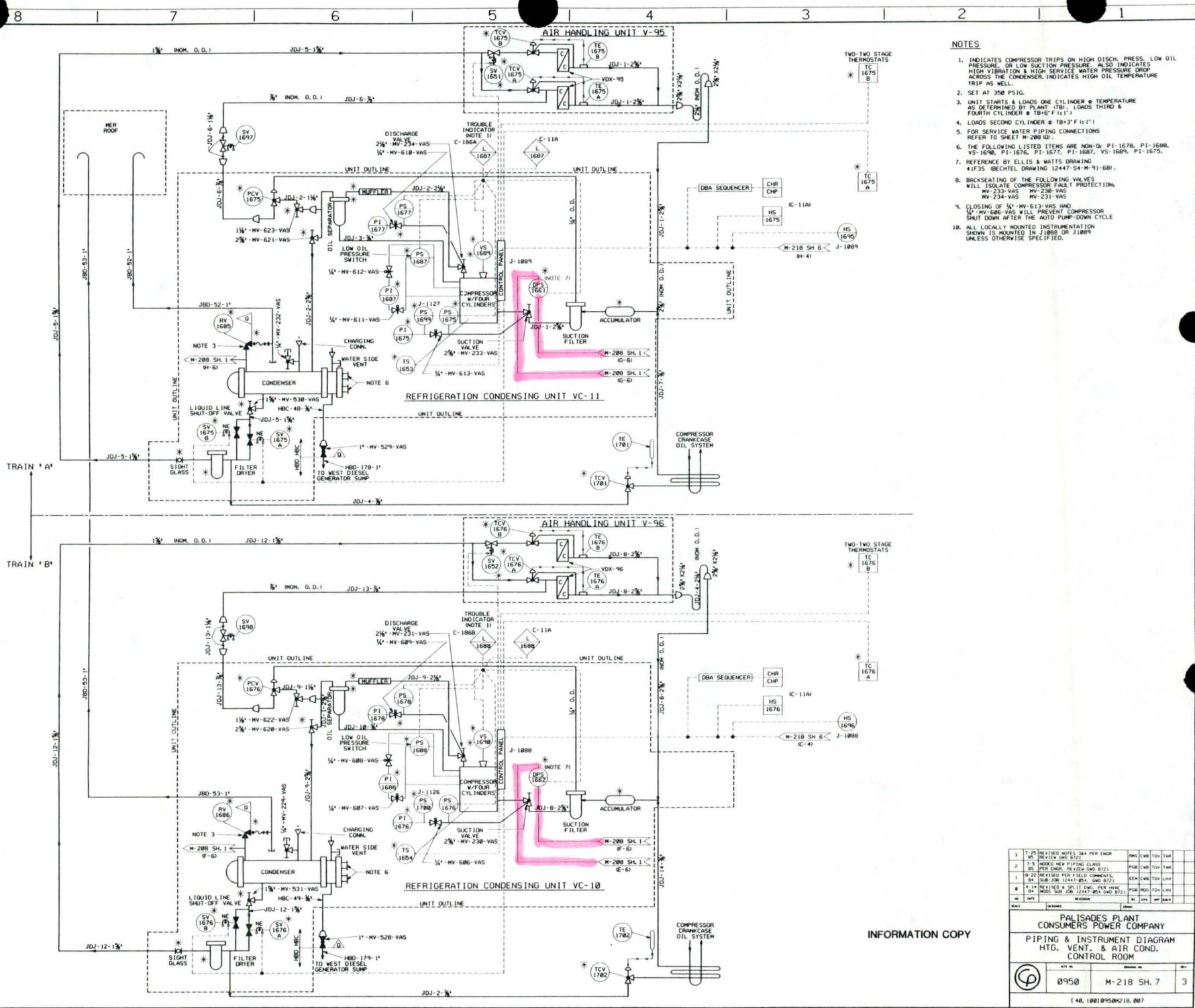
8	5-4	REVISED FROM 8884 PER SC-86-271	CON 220 444	
8	87		REVISED	
8	88		REVISED	
PALISADES PLANT CONSUMERS POWER COMPANY				
PIPING & INSTRUMENT DIAGRAM SERVICE WATER SYSTEM				
	REV. NO.	ISSUED BY	DATE	BY
	0950	M-208 SH. 1B	8	
87564208.018				



18	OWNER: TE A, T1-9912 TO TE A T1-9912	A.S.	JUL 88
17	REVISED: T1-9912 TO T1-9913	REVISION	
16	REVISED: VALVE NUMBERS	REVISION	
15	DATE: 08/11/87	DESIGNER: J.L. STERNETT	
14	NAME: PALISADES PLANT		
13	CONSUMERS POWER COMPANY		
12	PIPING & INSTRUMENT DIAGRAM		
11	COMPONENT COOLING SYSTEM		
10	0950	M-209 SH. 2	10
9	09504291.002		



NO	DATE	DESCRIPTION	BY	CHKD
20	2-22	ADDED EQUIP TO FLOW CV-1306 & 1307	MJD	JDD
21	2-22	CHANGED PIPE CLASS BY SC-07-111	MJD	JDD
22	2-22		MJD	JDD



- NOTES**
- INDICATES COMPRESSOR TRIPS ON HIGH DISCH. PRESS. LOW OIL PRESSURE, OR LOW SUCTION PRESSURE. ALSO INDICATES HIGH VIBRATION & HIGH SERVICE WATER PRESSURE DROP ACROSS THE CONDENSER, INDICATES HIGH OIL TEMPERATURE TRIP AS WELL.
 - SET AT 350 PSIG.
 - UNIT STARTS & LOADS ONE CYLINDER @ TEMPERATURE AS DETERMINED BY PLANT (BI); LOADS THIRD & FOURTH CYLINDER @ 18" F (11").
 - LOADS SECOND CYLINDER @ 18" F (11").
 - FOR SERVICE WATER PIPING CONNECTIONS REFER TO SHEET M-208 (S).
 - THE FOLLOWING LISTED ITEMS ARE NON-D: P1-1678, P1-1698, VS-1678, P1-1676, P1-1677, P1-1687, VS-1689, P1-1675.
 - REFERENCE BY ELLIS & WATTS DRAWING 41F35 (SHEET DRAWING 12447-54-M-91-08).
 - BACKSEATING OF THE FOLLOWING VALVES WILL ISOLATE COMPRESSOR FAULT PROTECTION: MV-233-VAS MV-238-VAS MV-234-VAS MV-231-VAS
 - CLOSING OF 3/4" MV-613-VAS AND 3/4" MV-686-VAS WILL PREVENT COMPRESSOR SHUT DOWN AFTER THE AUTO PUMP-DOWN CYCLE
 - ALL LOCALLY MOUNTED INSTRUMENTATION SHOWN IS MOUNTED IN J1888 OR J1889 UNLESS OTHERWISE SPECIFIED.

INFORMATION COPY

7-25	REVISED NOTES FOR ENGR	ENG	CH	10/1/88
7-5	ADDED NEW PIPING CLASS	ENG	CH	10/1/88
6-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88
5-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88
4-14	REVISED A SPLIT LINE FOR PUMP	ENG	CH	10/1/88
4-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88
3-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88
2-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88
1-1	REVISED FOR FIELD COMMENTS	ENG	CH	10/1/88

**PALISADES PLANT
CONSUMERS POWER COMPANY**

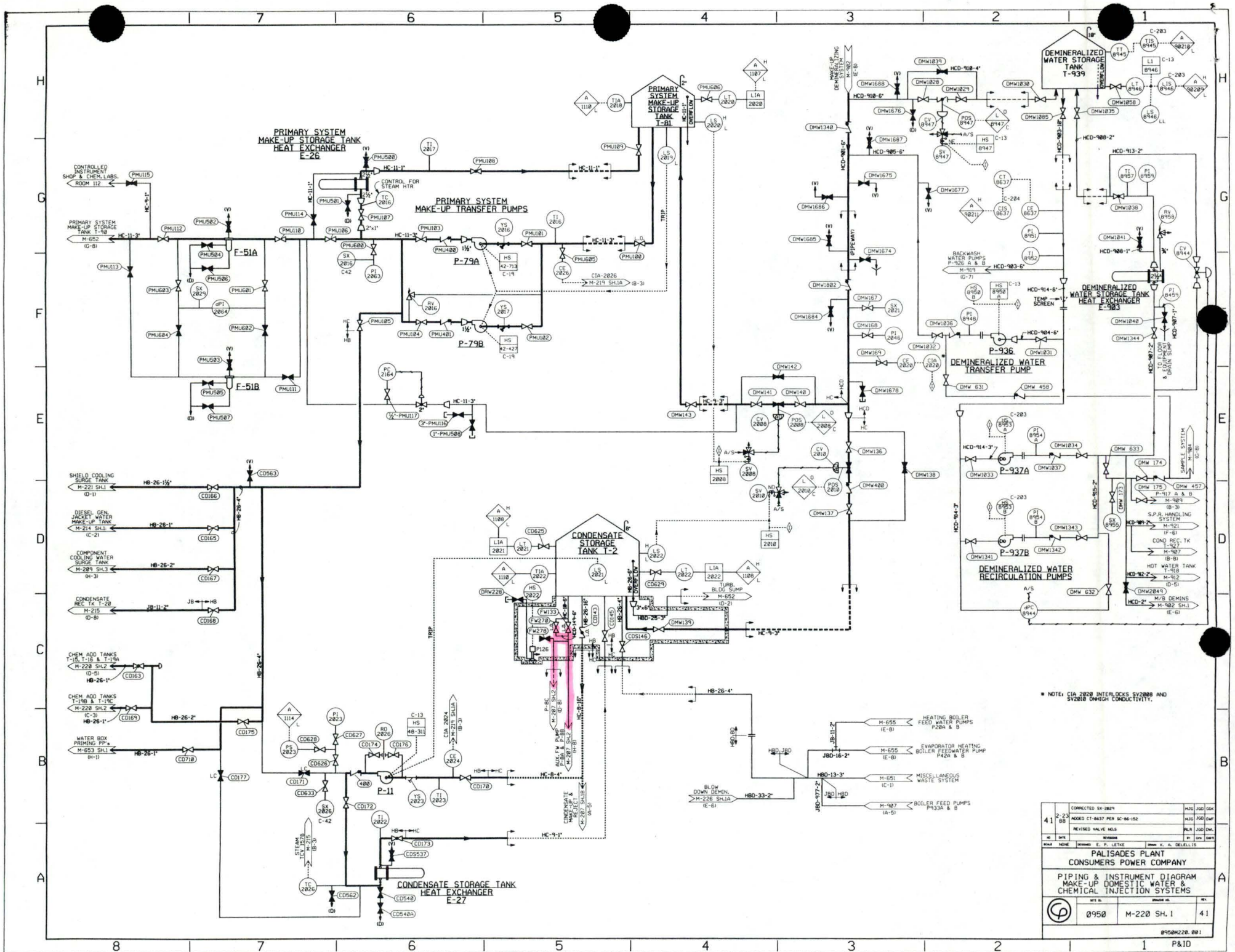
**PIPING & INSTRUMENT DIAGRAM
HTG. VENT. & AIR COND.
CONTROL ROOM**

REV. NO. 0950

DATE M-218 SH. 7

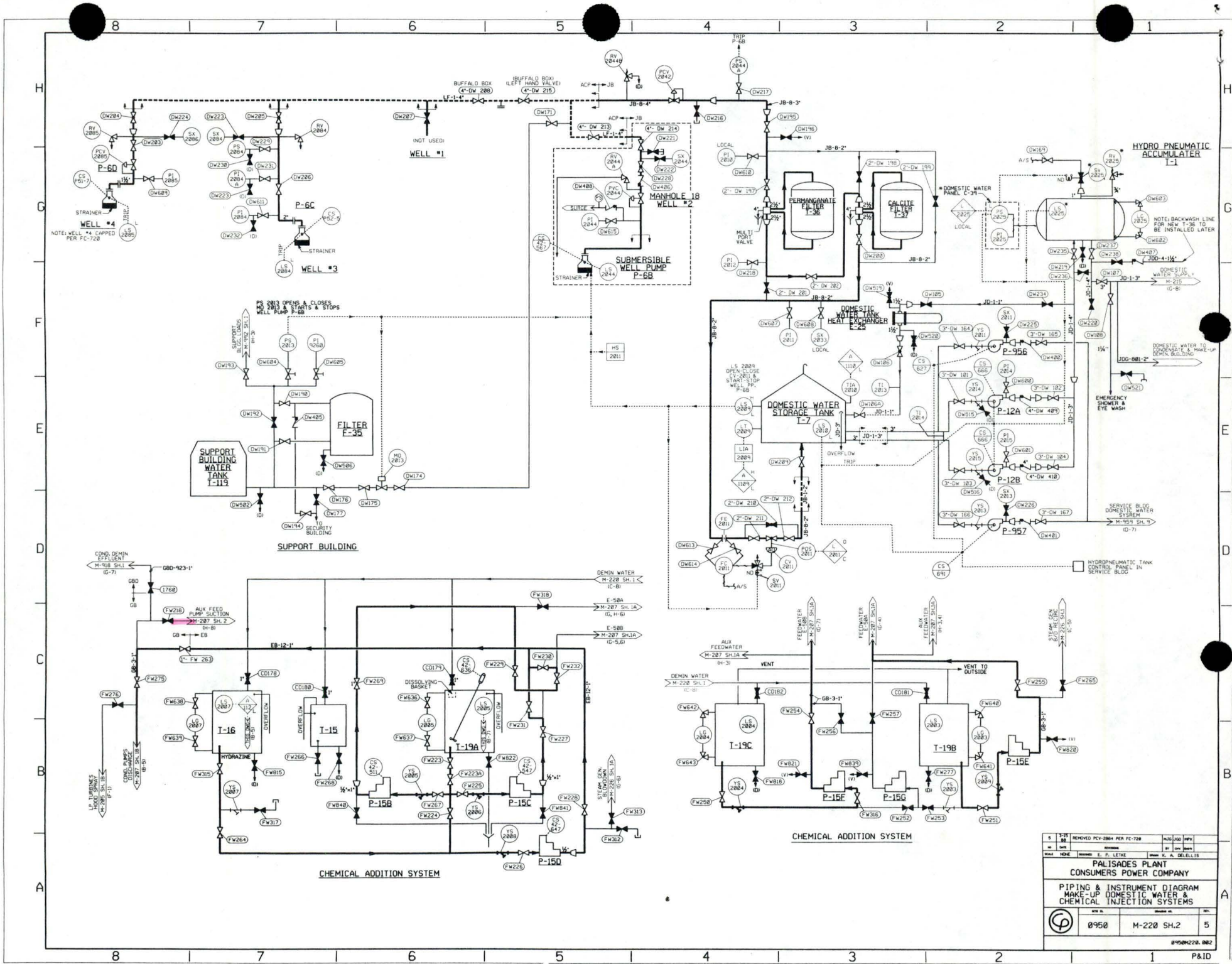
BY 3

(40, 1801)P5082C.10.007



* NOTE: CIA 2828 INTERLOCKS SY2888 AND SY2818 ON HIGH CONDUCTIVITY.

41	CONNECTED SX-2874	M3	JGD	054
2-21	ADDED CT-8637 PER SC-86-152	M3	JGD	054
08	REVISED VALVE NOS.	PLR	JGD	054
08	08/08	PLR	JGD	054
08	08/08	PLR	JGD	054
PALISADES PLANT CONSUMERS POWER COMPANY PIPING & INSTRUMENT DIAGRAM MAKE-UP DOMESTIC WATER & CHEMICAL INJECTION SYSTEMS				
0950	M-228 SH.1	41		



REV	DESCRIPTION	DATE	BY	CHECKED
1	REVISED FCV-2084 PER FC-720			
2				
3				
4				
5				
PALISADES PLANT CONSUMERS POWER COMPANY PIPING & INSTRUMENT DIAGRAM MAKE-UP DOMESTIC WATER & CHEMICAL INJECTION SYSTEMS				
NO. IN	NO. OF SHEETS	REV.		
0950	M-220 SH.2	5		
P&ID				

