



General Electric Company  
175 Carmer Avenue, San Jose, CA 95128

April 16, 1991

MFN No. 038-91  
Docket No. STN 50-605  
EEN-9128

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Charles L. Miller, Director  
Standardization and Non-Power Reactor Project Directorate

Subject: **Submittal of Amendment 16, 11x17 Foldout Drawings, to  
GE's ABWR SSAR**

Reference: Submittal of Amendment 16 to GE's ABWR SSAR, MFN  
No. 018-91, dated February 22, 1991

Enclosed are thirty-four (34) copies of the 11x17 foldout drawings identified for later delivery in the above reference. Included with this submittal is a page change instruction sheet for the revised drawings. Also, included are updated pages of the Page Status sheets, only revised pages, to update your existing status sheets.

Sincerely,

G. L. Sozzi, Acting Manager  
Regulatory and Analysis Services  
M/C 382, (408) 925-6948

cc: F. A. Ross (DOE)  
D. C. Scaletti (NRC)  
D. R. Wilkins (GE)  
J. F. Quirk (GE)

# ABWR SSAR

## Amendment 16 - Page change instruction (Foldout Figures Only)

The following pages have been changed, please make the specified changes in your SSAR. Pages are listed as page pairs (front & back). Bold page numbers represent a page that has been changed by Amendment 16.

REMOVE PAGE No.	ADD PAGE No.
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### CHAPTER 1

1.2-30,31	1.2-30,31
1.2-32,33	1.2-32,33
1.2-34,35	1.2-34,35
1.2-36,37	1.2-36,37
1.2-38, 39 - 45	1.2-38

### CHAPTER 5

5.4-61,62	5.4-61,62
Add	5.4-62.1

### CHAPTER 6

6.2-88,89	6.2-88,89
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### CHAPTER 9

Add	9.1-35
9.2-26,27	9.2-26,27
9.2-30,31	9.2-30,31
9.2-32,33	9.2-32,33
Add	9.4-7b
9.4-7c	9.4-7c,7c.1
Add	9.5-18,19
Add	9.5-20
Add	9.5-21

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1 COVER		1.2-17	14	1.2-46	14	1.7-11	13
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1-iii	11	1.2-18a	6	1.2-48	14	1.7-2	13
1-iv	11	1.2-19	4	1.2-49	14	1.7-3	13
1.1-ii	8	1.2-19a	6	1.2-50	14	1.7-4	13
1.1-1	9	1.2-19b	6	1.2-51	14	1.7-5	13
1.1-2	1	1.2-20	4	1.2-52	14	1.7-5.1	13
1.1-3	2	1.2-21	4	1.2-53	14	1.7-5.2	8
1.2-ii	7	1.2-22	4	1.3-11	1	1.7-5.3	8
1.2-iii	14	1.2-23	4	1.3-1	1	1.7-5.4	14
1.2-iv	14	1.2-24	4	1.3-2	15	1.7-5.5	10
1.2-v	1	1.2-25	4	1.3-3	16	1.7-5.6	10
1.2-vi	14	1.2-26	4	1.3-4	15	1.7-5.7	13
1.2-via	7	1.2-27	4	1.3-5	15	1.7-5.8	13
1.2-vii	6	1.2-28	4	1.3-6	15	1.7-5.9	13
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1.2-viii	16	1.2-29a	4	1.3-8	15	1.7-5.11	13
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1.2-2	1	1.2-29c	4	1.3-10	1	1.7-5.13	13
1.2-3	1	1.2-29d	6	1.3-11	1	1.7-5.14	13
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1.2-5a	15	1.2-29g	6	1.3-14	1	1.7-6	14
1.2-6	15	1.2-29h	6	1.3-15	1	1.7-7	14
1.2-7	14	1.2-29i	6	1.3-16	1	1.7-8	6
1.2-8	14	1.2-29j	6	1.3-17	1	1.7-9	6
1.2-9	7	1.2-30	16	1.3-18	7	1.7-10	6
1.2-10	2	1.2-31	16	1.3-19	1	1.7-11	6
1.2-11	14	1.2-32	16	1.4-11	1	1.7-12	6
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1.8-3	6	1.8-38	14	1.8-75	12	1A.2-5	4
1.8-4	6	1.8-39	8	1.8-76	12	1A.2-6	10
1.8-5	6	1.8-40	8	1.8-77	12	1A.2-7	13
1.8-6	6	1.8-41	8	1.8-78	12	1A.2-8	16
1.8-7	6	1.8-42	14	1.8-79	12	1A.2-8a	11
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1.8-13	6	1.8-48	13	1.8-85	12	1A.2-13	13
1.8-14	6	1.8-49	8	1.8-86	12	1A.2-13a	8
1.8-15	6	1.8-50	2	1.8-87	12	1A.2-14	15
1.8-16	6	1.8-51	6	1.8-88	12	1A.2-14a	6
1.8-16a	6	1.8-52	12	1.8-89	14	1A.2-15	9
1.8-17	6	1.8-53	12	1.8-90	12	1A.2-15a	9
1.8-18	6	1.8-54	12	1.9-11	6	1A.2-16	4
1.8-19	6	1.8-55	12	1.9-1	6	1A.2-17	15
1.8-20	8	1.8-56	12	1.9-2	15	1A.2-18	6
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1.8-26	2	1.8-62	12	1A-11	6	1A.2-23	16
1.8-27	7	1.8-63	12	1A-111	13	1A.2-24	16
1.8-28	2	1.8-64	12	1A-1v	13	1A.2-25	16
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1.8-30	8	1.8-66	12	1A.1-1	8	1A.2-27	16
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1.8-32	2	1.8-68	12	1A.2-111	4	1A.3-1	15
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1.8-35	2	1.8-71	12	1A.2-1	6	1AA-11	11
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1AA.4-2	11
1AA.4-3	11
1AA.5-1	11
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1AA.5-4	11
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### CHAPTER 2

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2.1-11	6	2A-22	15
2.1-1	16	2A-23	15
2.1-2	6	2A-24	15
2.1-3	9	2A-25	15
2.1-4	9	2A-26	15
2.1-5	6	2A-27	15
2.2-11	15	2A-28	15
2.2-1	16	2A-29	15
2.2-2	15	2A-30	15
2.3-11	15	2A-31	15
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2A COVER		2A-33	15
2A-11	15	2A-34	15
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2A-1	15	2A-36	15
2A-2	15	2A-37	15
2A-3	15	2A-38	15
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2A-10	15	2A-45	15
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3.0-iii	7	3.1-22	8	3.2-13	12	3.4-ii	16
3.0-iv	1	3.1-23	1	3.2-14	11	3.4-iii	16
3.0-v	1	3.1-24	7	3.2-14a	11	3.4-1	16
3.0-vi	1	3.1-25	1	3.2-15	16	3.4-1.1	16
3.1-ii	1	3.1-26	7	3.2-16	16	3.4-2	16
3.1-iii	1	3.1-27	1	3.2-17	3	3.4-2.1	16
3.1-iv	7	3.1-28	2	3.2-18	16	3.4-3	6
3.1-v	1	3.1-29	1	3.2-19	3	3.4-4	16
3.1-vi	1	3.1-30	1	3.2-19a	3	3.4-4.1	16
3.1-vii	1	3.1-31	7	3.2-20	18	3.4-5	16
3.1-viii	1	3.1-32	1	3.2-21	7	3.4-6	16
3.1-ix	1	3.1-33	7	3.2-21.1	15	3.4-6.1	16
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3.1-x1	7	3.1-35	3	3.2-22	12	3.4-8	16
3.1-1	11	3.1-36	1	3.2-23	12	3.4-9	16
3.1-2	7	3.1-37	6	3.2-23.1	12	3.5-ii	16
3.1-3	1	3.1-38	7	3.2-23.2	12	3.5-iii	16
3.1-4	7	3.1-39	7	3.2-24	10	3.5-iv	16
3.1-5	1	3.1-40	7	3.2-24.1	10	3.5-1	3
3.1-6	1	3.1-41	14	3.2-25	2	3.5-2	13
3.1-7	1	3.2-ii	2	3.2-26	13	3.5-3	16
3.1-8	1	3.2-1	15	3.2-27	12	3.5-3.1	16
3.1-9	7	3.2-2	3	3.2-28	9	3.5-4	16
3.1-10	1	3.2-3	7	3.2-29	7	3.5-5	1
3.1-11	7	3.2-4	3	3.2-30	15	3.5-6	14
3.1-12	7	3.2-5	1	3.2-31	11	3.5-6.1	14
3.1-13	1	3.2-6	14	3.2-32	6	3.5-7	14
3.1-14	1	3.2-7	14	3.2-33	10	3.5-7.1	14
3.1-15	1	3.2-7a	12	3.2-34	15	3.5-8	16
3.1-16	7	3.2-8	15	3.2-34.1	15	3.5-8.1	16
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3.1-18	1	3.2-9	15	3.2-36	2	3.5-9	1
3.1-19	8	3.2-10	3	3.3-ii	6	3.5-10	3
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3.6-1	7	3.6-36	1	3.7-25	7	3.7-65	1
3.6-2	3	3.6-37	1	3.7-26	9	3.7-66	1
3.6-3	10	3.6-38	1	3.7-27	7	3.7-67	1
3.6-4	7	3.6-39	1	3.7-28	1	3.8-11	1
3.6-5	7	3.6-40	1	3.7-29	1	3.8-111	1
3.6-6	7	3.7-11	1	3.7-30	1	3.8-1v	1
3.6-7	1	3.7-111	1	3.7-31	1	3.8-v	4
3.6-8	7	3.7-1v	1	3.7-32	1	3.8-v1	1
3.6-9	14	3.7-v	1	3.7-33	1	3.8-v11	7
3.6-10	1	3.7-v1	1	3.7-34	1	3.8-v111	7
3.6-11	1	3.7-v11	1	3.7-35	1	3.8-1x	1
3.6-12	7	3.7-v111	1	3.7-36	1	3.8-x	1
3.6-13	6	3.7-1x	16	3.7-37	1	3.8-1	4
3.6-14	6	3.7-x	1	3.7-38	1	3.8-2	16
3.6-15	7	3.7-1	12	3.7-39	1	3.8-3	1
3.6-16	1	3.7-2	1	3.7-40	1	3.8-4	1
3.6-17	8	3.7-3	16	3.7-41	1	3.8-5	1
3.6-18	1	3.7-4	16	3.7-42	1	3.8-6	7
3.6-19	3	3.7-5	1	3.7-43	1	3.8-7	1
3.6-20	1	3.7-6	1	3.7-44	1	3.8-8	4
3.6-21	6	3.7-7	1	3.7-45	1	3.8-9	4
3.6-22	7	3.7-8	1	3.7-46	1	3.8-10	7
3.6-23	7	3.7-9	1	3.7-47	1	3.8-11	6
3.6-24	1	3.7-10	1	3.7-48	1	3.8-12	4
3.6-25	1	3.7-11	1	3.7-49	1	3.8-13	1
3.6-26	1	3.7-12	1	3.7-50	1	3.8-14	1
3.6-27	10	3.7-13	1	3.7-51	1	3.8-15	1
3.6-27.1	10	3.7-14	1	3.7-52	1	3.8-16	7
3.6-28	1	3.7-15	1	3.7-53	1	3.8-17	7
3.6-29	10	3.7-16	1	3.7-54	1	3.8-18	1
3.6-30	1	3.7-17	3	3.7-55	1	3.8-19	7
3.6-30.1	10	3.7-17a	3	3.7-56	1	3.8-20	14
3.6-31	7	3.7-18	1	3.7-57	1	3.8-21	6
3.6-32	1	3.7-19	1	3.7-58	16	3.8-21a	6
3.6-33	1	3.7-20	1	3.7-59	16	3.8-22	1
3.6-33.1	10	3.7-21	1	3.7-60	16	3.8-23	8
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3.8-26a	7	3.9-viii	1	3.9-31	15	3.9-58.6	14
3.8-27	6	3.9-ix	1	3.9-31.1	11	3.9-58.7	14
3.8-27a	6	3.9-x	14	3.9-32	1	3.9-58.8	14
3.8-28	7	3.9-xi	16	3.9-33	7	3.9-58.9	14
3.8-29	3	3.9-xii	16	3.9-34	15	3.9-58.10	14
3.8-30	1	3.9-1	1	3.9-34.1	11	3.9-58.11	14
3.8-31	1	3.9-2	3	3.9-35	16	3.9-58.12	14
3.8-32	7	3.9-3	11	3.9-36	3	3.9-58.13	14
3.8-33	2	3.9-3.1	11	3.9-36a	10	3.9-58.14	14
3.8-34	3	3.9-4	11	3.9-37	13	3.9-58.15	14
3.8-35	3	3.9-5	3	3.9-38	1	3.9-58.16	14
3.8-36	1	3.9-6	11	3.9-39	11	3.9-58.17	14
3.8-37	1	3.9-7	3	3.9-40	11	3.9-58.18	14
3.8-38	1	3.9-8	3	3.9-41	1	3.9-58.19	14
3.8-39	1	3.9-9	11	3.9-42	7	3.9-58.20	14
3.8-40	1	3.9-10	1	3.9-43	7	3.9-58.21	14
3.8-41	1	3.9-11	12	3.9-44	14	3.9-58.22	14
3.8-42	1	3.9-11a	3	3.9-44.1	14	3.9-58.23	14
3.8-43	1	3.9-12	7	3.9-45	16	3.9-58.24	14
3.8-44	1	3.9-13	7	3.9-45.1	16	3.9-58.25	14
3.8-45	1	3.9-14	1	3.9-46	1	3.9-58.26	14
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3.8-47	1	3.9-16	7	3.9-48	1	3.9-58.28	14
3.8-48	1	3.9-17	11	3.9-49	9	3.9-58.29	14
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3.10-1	8	3A.4-1	1	3A.8-13	1	3B.2-11	7
3.10-2	1	3A.4-2	1	3A.8-14	1	3B.2-1	6
3.10-3	1	3A.4-3	1	3A.8-15	1	3B.3-11	7
3.10-4	7	3A.4-4	1	3A.8-16	1	3B.3-1	6
3.10-5	7	3A.4-5	1	3A.8-17	1	3B.4-11	6
3.10-6	1	3A.4-6	1	3A.8-18	1	3B.4-111	8
3.10-7	1	3A.4-7	1	3A.8-19	1	3B.4-1v	8
3.10-8	7	3A.4-8	1	3A.8-20	1	3B.4-1	6
3.10-9	1	3A.4-9	1	3A.8-21	1	3B.5-11	6
3.10-10	1	3A.4-10	1	3A.8-22	1	3B.5-1	6
3.11-11	14	3A.5-11	1	3A.8-23	1	3B.6-1	6
3.11-1	14	3A.5-1	1	3A.8-24	1	3B.7-1	6
3.11-1.1	14	3A.5-2	1	3A.8-25	1	3C COVER	
3.11-2	14	3A.5-3	1	3A.8-26	16	3C-11	1
3.11-3	14	3A.5-4	1	3A.8-27	16	3C-1	1
3A COVER		3A.5-5	1	3A.8-28	16	3C.2-1	1
3A.11	1	3A.5-6	1	3A.8-29	16	3C.3-1	1
3A.111	1	3A.6-11	1	3A.8-30	16	3D COVER	
3A.1-1	9	3A.6-1	1	3A.9-1	1	3D-11	1
3A.1-2	1	3A.6-2	1	3A.10-1	1	3D-111	1
3A.2-11	1	3A.7-11	1	3AA-1	1	3D.1-1	1
3A.2-1	1	3A.7-1	1	3AA-2	1	3D.2-11	1
3A.2-2	1	3A.7-2	1	3AA-3	1	3D.2-1	1
3A.2-3	1	3A.8-11	16	3AA-4	1	3D.3-1	1
3A.3-11	1	3A.8-111	16	3AA-5	1	3D.4-11	1
3A.3-1	1	3A.8-1	16	3AA-6	1	3D.4-1	1
3A.3-2	1	3A.8-2	7	3AA-7	1	3D.4-2	1
3A.3-3	16	3A.8-2.1	7	3AA-8	1	3D.5-11	1
3A.3-4	1	3A.8-3	1	3AA-9	1	3D.5-1	1
3A.3-5	1	3A.8-4	1	3AA-10	1	3D.6-11	1
3A.3-6	7	3A.8-5	1	3AA-11	1	3D.6-1	1
3A.3-7	1	3A.8-6	1	3AA-12	1	3D.7-11	1
3A.3-8	1	3A.8-7	1	3B COVER		3D.7-1	1
3A.3-9	16	3A.8-8	1	3B-11	6	3D.7-2	1
3A.3-10	1	3A.8-9	1	3B-111	6	3E COVER	
3A.3-11	1	3A.8-10	1	3B.1-11	6		
3A.3-12	1	3A.8-11	1	3B.1-1	6		
3A.4-11	1	3A.8-12	1				



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3E.1-1	1	3E.4-111	1	3G.2-1	4	3G.3-6	4
3E.2-11	1	3E.4-1	1	3G.2-2	4	3G.4-11	4
3E.2-111	1	3E.4-2	1	3G.2-3	4	3G.4-111	4
3E.2-1	1	3E.4-3	1	3G.2-4	4	3G.4-1	4
3E.2-2	7	3E.4-4	1	3G.2-5	4	3G.4-2	4
3E.2-3	1	3E.4-5	1	3G.2-6	4	3G.4-3	11
3E.2-4	7	3E.4-6	1	3G.2-7	4	3G.4-4	4
3E.2-5	1	3E.4-7	1	3G.2-8	4	3G.4-5	4
3E.2-6	1	3E.4-8	1	3G.2-9	4	3G.4-6	4
3E.2-7	1	3E.4-9	1	3G.2-10	4	3G.4-7	4
3E.2-8	1	3E.5-1	8	3G.2-11	4	3G.4-8	4
3E.2-9	1	3F COVER		3G.2-12	4	3G.4-9	4
3E.2-10	1	3F-11	1	3G.2-13	4	3G.4-10	4
3E.2-11	1	3F.1-1	8	3G.2-14-15	4	3G.4-11	4
3E.2-12	1	3F.2-11	1	3G.2-16	4	3G.4-12	4
3E.2-13	1	3F.2-111	1	3G.2-17	4	3G.4-13	4
3E.2-14	1	3F.2-1	7	3G.2-18	4	3G.4-14	4
3E.2-15	1	3F.2-2	7	3G.2-19	4	3G.5-11	16
3E.2-16	1	3F.2-3	7	3G.2-20	4	3G.5-111	16
3E.2-17	1	3F.2-4	1	3G.2-21	4	3G.5-1v	16
3E.2-18	1	3F.2-5	1	3G.2-22	4	3G.5-1	16
3E.2-19	1	3F.3-11	1	3G.2-23	4	3G.5-2	16
3E.2-20	1	3F.3-1	7	3G.2-24	4	3G.5-3	16
3E.2-21	1	3F.3-2	7	3G.2-25	4	3G.5-4	16
3E.2-22	1	3F.3-3	1	3G.2-26	4	3G.5-5	-
3E.2-23	1	3F.3-4	1	3G.2-27	4	3G.5-6	16
3E.3-11	1	3G COVER		3G.2-28	4	3G.5-7	16
3E.3-111	1	3G-11	16	3G.2-29	4	3G.5-8	16
3-1	1	3G.1-11	4	3G.2-30	4	3G.5-9	16
3E.3-2	1	3G.1-1	4	3G.2-31	4	3G.5-10	16
3E.3-3	1	3G.1-2	4	3G.2-32	4	3G.5-11	16
3E.3-4	8	3G.1-3	4	3G.2-33	4	3G.5-12	16
3E.3-5	1	3G.1-4	4	3G.2-34	4	3G.5-13	16
3E.3-6	1	3G.2-11	4	3G.3-11	4	3G.5-14	16
3E.3-7	1	3G.2-111	4	3G.3-1	4	3G.5-15	16
3E.3-8	1			3G.3-2	6	3H COVER	
3E.3-9	1			3G.3-3	4	3H-11	4
				3G.3-4	6		



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3H.1-11	4	3H.3-32	4
3H.1-1	4	3H.3-33	4
3H.1-2	4	3H.3-34	4
3H.2-1	4	3H.3-35	4
3H.3-11	4	3H.3-36	4
3H.3-111	16	3H.3-37	4
3H.3-1	4	3H.3-38	4
3H.3-2	4	3H.3-39	4
3H.3-3	4	3H.3-40	4
3H.3-4	4	3H.3-41	4
3H.3-5	4	3H.3-42	4
3H.3-6	4	3H.3-43	4
3H.3-7	4	3H.3-44	4
3H.3-8	4	3H.3-45	4
3H.3-9	4	3H.3-46	4
3H.3-10	4	3H.3-47	4
3H.3-11	4	3H.3-48	4
3H.3-12	4	3H.3-49	4
3H.3-13	4	3H.3-50	6
3H.3-14	4	3H.3-51	6
3H.3-15	4	3H.3-52	6
3H.3-16	4	3H.3-53	6
3H.3-17	4	3H.3-54	6
3H.3-18	4	3H.3-54a	6
3H.3-19	4	3H.3-55	16
3H.3-20	4	3H.3-56	6
3H.3-21	4	3H.3-57-59	6
3H.3-22	4	3H.3-60	4
3H.3-23	4	3I COVER	
3H.3-24	4	3I-11	14
3H.3-25	4	3I.1-1	14
3H.3-26	4	3I.2-11	14
3H.3-27	4	3I.2-1	14
3H.3-28	4	3I.3-11	14
3H.3-29	4	3I.3-111	14
3H.3-30	4	3I.3-1v	14
3H.3-31	4	3I.3-1	14

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4 COVER		4.5-11	15	4.6-26	0	4A-29	0
4-11	15	4.5-1	12	4A COVER		4A-30	0
4-111	15	4.5-2	8	4A-11	15	4A-31	0
4.1-11	0	4.5-3	2	4A-111	0	4A-32	0
4.1-111	15	4.5-4	2	4A-1v	0	4A-33	0
4.1-1	15	4.5-4.1	15	4A-v	0	4A-34	0
4.1-1.1	15	4.6-11	0	4A-v1	0	4A-35	0
4.1-2	15	4.6-111	15	4A-1	15	4A-36	0
4.1-3	0	4.6-1v	15	4A-2	0	4A-37	0
4.1-4	0	4.6-v	15	4A-3	0	4A-38	0
4.1-5	15	4.6-1	15	4A-4	0	4A-39	0
4.1-6	15	4.6-1a	3	4A-5	0	4A-40	0
4.1-7	0	4.6-2	12	4A-6	0	4A-41	0
4.2-11	15	4.6-3	12	4A-7	0	4A-42	0
4.2-1	15	4.6-4	12	4A-8	0	4A-43	0
4.2-2	15	4.6-5	10	4A-9	0	4A-44	0
4.3-11	15	4.6-5.1	10	4A-10	0	4A-45	0
4.3-111	15	4.6-6	12	4A-11	0	4A-46	0
4.3-1	15	4.6-6.1	10	4A-12	0	4B COVER	
4.3-2	15	4.6-7	0	4A-13	0	4B-11	16
4.3-3	15	4.6-8	12	4A-14	0	4B-1 - B	16
4.3-4	15	4.6-9	15	4A-15	0	4C COVER	
4.3-5	15	4.6-10	15	4A-16	0	4C-11	15
4.4-11	15	4.6-11	15	4A-17	0	4C-1	15
4.4-111	15	4.6-12	15	4A-18	0		
4.4-1v	15	4.6-13	15	4A-19	0		
4.4-1	15	4.6-14	0	4A-20	0		
4.4-2	15	4.6-15	12	4A-21	0		
4.4-3	15	4.6-16	15	4A-22	0		
4.4-4	15	4.6-17	10	4A-23	0		
4.4-5	15	4.6-18	0	4A-24	0		
4.4-6	15	4.6-19	0	4A-25	0		
4.4-7	15	4.6-20	0	4A-26	0		
4.4-8	15	4.6-21	0	4A-27	0		
4.4-9	15	4.6-22	12	4A-28	0		
4.4-10	15	4.6-23	10				
4.4-11	15	4.6-24	0				
		4.6-25	0				

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5 COVER		5.2-10	15	5.2-36.3	13	5.2-52	15
5.0-11	13	5.2-11	3	5.2-36.4	13	5.2-53	15
5.0-111	15	5.2-11a	11	5.2-36.5	13	5.3-11	11
5.1-11	15	5.2-12	15	5.2-36.6	13	5.3-111	11
5.1-1	2	5.2-13	15	5.2-36.7	13	5.3-1v	0
5.1-2	15	5.2-14	15	5.2-36.8	13	5.3-v	9
5.1-3	15	5.2-15	15	5.2-36.9	13	5.3-1	15
5.1-4	15	5.2-15.1	15	5.2-36.10	13	5.3-2	15
5.1-5	15	5.2-16	13	5.2-36.11	13	5.3-2.1	15
5.1-6	15	5.2-17	15	5.2-36.12	13	5.3-3	15
5.1-7	15	5.2-17.1	15	5.2-36.13	13	5.3-4	15
5.1-8	15	5.2-17.2	13	5.2-36.14	13	5.3-5	15
5.1-9	15	5.2-18	15	5.2-36.15	13	5.3-6	15
5.1-9.1	15	5.2-19	15	5.2-36.16	13	5.3-6.1	15
5.1-9.2	15	5.2-20	15	5.2-36.17	13	5.3-7	15
5.1-9.3	15	5.2-21	15	5.2-36.18	13	5.3-8	15
5.1-9.4	15	5.2-22	15	5.2-36.19	13	5.3-9	15
5.1-9.5	15	5.2-23	15	5.2-36.20	13	5.3-10	15
5.1-9.6	15	5.2-24	15	5.2-36.21	13	5.3-11	15
5.2-11	0	5.2-25	15	5.2-36.21	13	5.3-12	15
5.2-111	15	5.2-26	15	5.2-37	0	5.3-13	15
5.2-1v	15	5.2-27	15	5.2-38	15	5.3-14	15
5.2-v	13	5.2-28	15	5.2-39	0	5.4-11	15
5.2-v1	13	5.2-28.1	15	5.2-40	0	5.4-111	0
5.2-v1.1	13	5.2-29	13	5.2-41	15	5.4-1v	10
5.2-v11	15	5.2-29.1	13	5.2-42	15	5.4-v	10
5.2-v111	15	5.2-29.2	13	5.2-43	13	5.4-v1	15
5.2-ix	15	5.2-29.3	13	5.2-43.1	13	5.4-v11	15
5.2-1	15	5.2-30	15	5.2-43.2	13	5.4-1	15
5.2-2	15	5.2-31	15	5.2-44	15	5.4-2	15
5.2-3	15	5.2-32	15	5.2-45	15	5.4-3	15
5.2-3.1	15	5.2-32.1	15	5.2-46	15	5.4-4	15
5.2-4	15	5.2-33	15	5.2-47	15	5.4-5	15
5.2-5	15	5.2-34	15	5.2-48	15	5.4-5.1	15
5.2-6	15	5.2-35	15	5.2-49	15	5.4-6	15
5.2-7	15	5.2-36	15	5.2-50	15		
5.2-8	3	5.2-36.1	13	5.2-51	15		
5.2-9	11	5.2-36.2	13				
5.2-9.1	11						

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5.4-7	15	5.4-35	15	5A.1-1	13	5AB-17	13
5.4-7.1	15	5.4-36	15	5A.2-11	13	5AB-18	13
5.4-8	15	5.4-37	15	5A.2-1	13	5AB-19	13
5.4-9	15	5.4-38	15	5A.2-2	13	5AB-20	13
5.4-10	15	5.4-39	15	5A.2-3	13	5AB-21	13
5.4-10.1	15	5.4-40	15	5A.5-1	13	5AB-22	13
5.4-11	15	5.4-41	15	5A.2-4	13		
5.4-12	15	5.4-42	15	5A.3-1	13		
5.4-13	15	5.4-43	15	5A.4-1	13		
5.4-14	15	5.4-44	0	5A.4-2	13		
5.4-14.1	15	5.4-45	0	5AA-COVER			
5.4-15	15	5.4-46	0	5AA-1	13		
5.4-15.1	15	5.4-47	15	5AA-2	13		
5.4-16	15	5.4-47.1	15	5AA-3	13		
5.4-16.1	15	5.4-48	15	5AA-4	13		
5.4-17	15	5.4-49	15	5AA-5	13		
5.4-18	15	5.4-50	8	5AA-6	13		
5.4-18.1	16	5.4-51	15	5AA-7	13		
5.4-19	15	5.4-52	15	5AA-8	13		
5.4-20	15	5.4-52.1	15	5AA-9	13		
5.4-21	15	5.4-53	15	5AA-10	13		
5.4-21.1	15	5.4-54	15	5AB-COVER			
5.4-22	15	5.4-55	15	5AB-1	13		
5.4-22.1	15	5.4-56	15	5AB-2	13		
5.4-23	15	5.4-57	15	5AB-3	13		
5.4-24	15	5.4-58	15	5AB-4	13		
5.4-25	15	5.4-58.1	15	5AB-5	13		
5.4-26	15	5.4-58.2	15	5AB-6	13		
5.4-27	15	5.4-58.3	15	5AB-7	13		
5.4-28	15	5.4-59	15	5AB-8	13		
5.4-29	7	5.4-60	15	5AB-9	13		
5.4-30	15	5.4-61	16	5AB-10	13		
5.4-31	15	5.4-62	16	5AB-11	13		
5.4-31.1	15	5.4-62.1	16	5AB-12	13		
5.4-32	15	5.4-63	15	5AB-13	13		
5.4-33	15	5.4-64	15	5AB-14	13		
5.4-34	15	5A-COVER		5AB-15	13		
		5A-11	13	5AB-16	13		

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6 COVER		6.2-13	0	6.2-44	11	6.2-50.23	14
6.0-ii	15	6.2-14	2	6.2-45	2	6.2-50.24	14
6.0-iii	13	6.2-15	10	6.2-46	3	6.2-50.25	14
6.0-iv	13	6.2-16	3	6.2-46a	3	6.2-50.26	14
6.0-1	2	6.2-16a	3	6.2-46b	3	6.2-50.27	14
6.1-ii	14	6.2-17	11	6.2-46c	7	6.2-50.28	14
6.1-1	0	6.2-18	9	6.2-46d	7	6.2-50.29	14
6.1-2	14	6.2-19	0	6.2-46e	7	6.2-50.30	14
6.1-3	14	6.2-20	7	6.2-46f	7	6.2-50.31	14
6.1-4	0	6.2-21	7	6.2-46g	7	6.2-50.32	14
6.1-5	0	6.2-22	9	6.2-46h	7	6.2-50.33	16
6.1-6	2	6.2-22a	9	6.2-47	9	6.2-50.34	16
6.1-7	16	6.2-23	2	6.2-48	9	6.2-50.35	14
6.2-ii	0	6.2-24	9	6.2-49	2	6.2-50.36	14
6.2-iii	0	6.2-25	0	6.2-50	0	6.2-50.37	14
6.2-iv	0	6.2-26	0	6.2-50.1	14	6.2-50.38	14
6.2-v	0	6.2-27	0	6.2-50.2	14	6.2-50.39	14
6.2-vi	2	6.2-28	2	6.2-50.3	14	6.2-50.40	14
6.2-vii	11	6.2-29	2	6.2-50.3a	14	6.2-50.41	14
6.2-viii	16	6.2-30	2	6.2-50.3b	14	6.2-50.42	14
6.2-ix	16	6.2-31	11	6.2-50.4	14	6.2-50.43	14
6.2-ixa	16	6.2-32	16	6.2-50.5	14	6.2-50.44	14
6.2-x	0	6.2-33	11	6.2-50.6	14	6.2-50.45	14
6.2-xi	11	6.2-33.1	11	6.2-50.7	14	6.2-50.45	14
6.2-xii	13	6.2-34	11	6.2-50.8	14	6.2-50.47	14
6.2-1	0	6.2-35	11	6.2-50.9	14	6.2-50.48	9
6.2-2	0	6.2-36	16	6.2-50.10	14	6.2-50.49	14
6.2-3	0	6.2-36.1	11	6.2-50.11	14	6.2-50.50	14
6.2-4	3	6.2-37	10	6.2-50.12	14	6.2-50.51	14
6.2-4a	3	6.2-37.1	10	6.2-50.13	14	6.2-50.52	14
6.2-5	2	6.2-38	5	6.2-50.14	14	6.2-50.53	14
6.2-6	3	6.2-39	0	6.2-50.15	14	6.2-50.54	14
6.2-7	0	6.2-40	3	6.2-50.16	14	6.2-50.55	14
6.2-8	0	6.2-41	3	6.2-50.17	14	6.2-50.56	14
6.2-9	0	6.2-42	9	6.2-50.18	14	6.2-50.57	9
6.2-10	2	6.2-43	7	6.2-50.19	14	6.2-50.58	9
6.2-11	0	6.2-43a	7	6.2-50.20	14	6.2-50.59	9
6.2-12	0			6.2-50.21	14	6.2-51	0
				6.2-50.22	14	6.2-52	0



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6.2-53	0	6.2-90	11	6.3-21	16	6.3-50	2
6.2-54	0	6.2-91	11	6.3-22	2	6.3-51	2
6.2-55	0	6.2-92	11	6.3-23	10	6.3-52	2
6.2-56	10	6.2-93	11	6.3-24	15	6.3-53	2
6.2-57	10	6.3-11	7	6.3-24a	6	6.3-54	2
6.2-58	0	6.3-111	0	6.3-24b	6	6.3-55	2
6.2-59	0	6.3-1v	15	6.3-24c	6	6.3-56	2
6.2-60	0	6.3-1v	13	6.3-24d	6	6.3-57	2
6.2-61	0	6.3-1v1	13	6.3-24e	6	6.3-58	2
6.2-62	0	6.3-1v11	7	6.3-24f	6	6.3-59	2
6.2-63	0	6.3-1v111	7	6.3-24g	6	6.3-60	2
6.2-64	0	6.3-1x	7	6.3-25	6	6.3-61	2
6.2-65	0	6.3-x	7	6.3-26	13	6.3-62	2
6.2-66	0	6.3-x1	7	6.3-27	13	6.3-63	2
6.2-67	0	6.3-1	2	6.3-28	13	6.3-64	2
6.2-68	0	6.3-2	2	6.3-29	13	6.3-65	2
6.2-69	0	6.3-3	2	6.3-30	2	6.3-66	2
6.2-70	0	6.3-4	14	6.3-31	0	6.3-67	2
6.2-71	0	6.3-5	7	6.3-32	0	6.3-68	2
6.2-72	0	6.3-6	13	6.3-33	6	6.3-69	2
6.2-73	0	6.3-7	7	6.3-34	6	6.3-70	2
6.2-74	0	6.3-8	13	6.3-35	6	6.3-71	10
6.2-75	0	6.3-9	15	6.3-36	13	6.3-72	10
6.2-76	0	6.3-9.1	15	6.3-37	13	6.3-73	2
6.2-77	0	6.3-10	15	6.3-38	13	6.3-74	2
6.2-78	0	6.3-10.1	15	6.3-39	13	6.3-75	10
6.2-79	0	6.3-11	15	6.3-40	13	6.4-11	0
6.2-80	0	6.3-11.1	15	6.3-41	13	6.4-111	0
6.2-81	0	6.3-12	15	6.3-42	0	6.4-1	5
6.2-82	0	6.3-12.1	15	6.3-43	0	6.4-2	0
6.2-83	0	6.3-13	15	6.3-44	2	6.4-3	7
6.2-84	0	6.3-14	7	6.3-45	2	6.4-4	7
6.2-85	0	6.3-15	15	6.3-46	2	6.4-4a	7
6.2-86	0	6.3-16	0	6.3-47	2	6.4-5	0
6.2-87	9	6.3-17	2	6.3-48	2	6.4-6	0
6.2-87.1	9	6.3-18	15	6.3-49	2	6.4-7	10
6.2-88	16	6.3-19	15			6.4-7a	6
6.2-89	16	6.3-20	13				

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6.4-8	7	6.6-16	13	6.6-54	13	6B-5	11
6.4-9	0	6.6-17	13	6.6-55	13	6B-6	11
6.4-10	6	6.6-18	13	6.6-56	13	6B-7	11
6.5-11	11	6.6-19	13	6.6-57	13		
6.5-111	11	6.6-20	13	6.6-58	13		
6.5-1	11	6.6-21	13	6.6-59	13		
6.5-2	11	6.6-22	13	6.6-60	13		
6.5-3	11	6.6-23	13	6.6-61	13		
6.5-4	11	6.6-24	13	6.6-62	13		
6.5-4.1	11	6.6-25	13	6.6-63	13		
6.5-5	11	6.6-26	13	6.6-64	13		
6.5-6	11	6.6-27	13	6.6-65	13		
6.5-7	11	6.6-28	13	6.6-66	13		
6.5-8	11	6.6-29	13	6.6-67	13		
6.5-9	11	6.6-30	13	6.6-68	13		
6.5-10	11	6.6-31	13	6.6-69	13		
6.5-11	11	6.6-32	13	6.6-70	13		
6.5-12	11	6.6-33	13	6.7-11	13		
6.5-13	11	6.6-34	13	6.7-1	16		
6.5-14	11	6.6-35	13	6.7-2	13		
6.6-11	13	6.6-36	13	6.7-3	0		
6.6-111	13	6.6-37	13	6.7-4	0		
6.6-1	13	6.6-38	13	6A COVER			
6.6-2	13	6.6-39	13	6A-1	11		
6.6-3	13	6.6-40	13	6A-2	11		
6.6-4	13	6.6-41	13	6A-3	11		
6.6-5	13	6.6-42	13	6A-4	11		
6.6-6	13	6.6-43	13	6A-5	11		
6.6-7	13	6.6-44	13	6A-6	11		
6.6-8	13	6.6-45	13	6A-7	11		
6.6-9	13	6.6-46	13	6A-8	11		
6.6-10	13	6.6-47	13	6A-9	11		
6.6-11	13	6.6-48	13	6A-10	11		
6.6-12	13	6.6-49	13	6B COVER			
6.6-13	13	6.6-50	13	6B-1	11		
6.6-14	13	6.6-51	13	6B-2	11		
6.6-15	13	6.6-52	13	6B-3	11		
		6.6-53	13	6B-4	11		



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8 COVER		8.3-15	10
8-11	10	8.3-16	10
8.1-11	10	8.3-16.1	10
8.1-1	10	8.3-17	10
8.1-1.1	10	8.3-18	10
8.1-2	10	8.3-18.1	10
8.1-2.1	10	8.3-19	10
8.1-3	10	8.3-20	10
8.1-4	10	8.3-20.1	10
8.1-5	10	8.3-21	10
8.1-6	10	8.3-22	10
8.2-11	6	8.3-23	10
8.2-1	10	8.3-23.1	10
8.3-11	10	8.3-24	10
8.3-11.1	2	8.3-25	10
8.3-1v	2	8.3-26	10
8.3-v	10	8.3-27	10
8.3-v.1	10	8.3-28	10
8.3-1	16	8.3-29	10
8.3-1.1	10	8.3-30	10
8.3-2	10	8.3-31	10
8.3-3	10	8.3-32	10
8.3-4	10	8.3-33	10
8.3-5	10	8.3-34	10
8.3-5.1	10	8.3-35	10
8.3-6	10	8.3-36	10
8.3-6.1	10	8.3-37	10
8.3-7	10		
8.3-7.1	10		
8.3-8	10		
8.3-9	10		
8.3-10	10		
8.3-11	10		
8.3-12	10		
8.3-12.1	10		
8.3-13	10		
8.3-14	10		

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### CHAPTER 9

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
9 COVER		9.1-7	7	9.1-38	16	9.2-16	14
9-ii	6	9.1-8	14	9.1-39	16	9.2-17	14
9-iii	11	9.1-9	7	9.2-ii	16	9.2-18	16
9-iv	14	9.1-10	7	9.2-11a	16	9.2-19	14
9.1-ii	16	9.1-11	7	9.2-111	14	9.2-19.1	16
9.1-111	16	9.1-11a	7	9.2-iv	16	9.2-20	2
9.1-iv	16	9.1-12	2	9.2-iva	16	9.2-21	2
9.1-v	16	9.1-13	16	9.2-v	16	9.2-22	14
9.1-vi	16	9.1-13a	6	9.2-vi	14	9.2-23	14
9.1-vii	16	9.1-13b	16	9.2-1	16	9.2-24	14
9.1-viii	16	9.1-13c	6	9.2-1.1	16	9.2-25	14
9.1-ix	16	9.1-13d	6	9.2-1.2	16	9.2-25a	7
9.1-1	16	9.1-13e	6	9.2-1.3	16	9.2-25b	7
9.1-1.1	16	9.1-14	6	9.2-1.4	16	9.2-25c	11
9.1-1.2	16	9.1-15	6	9.2-2	14	9.2-26	6
9.1-2	11	9.1-16	6	9.2-3	14	9.2-27	16
9.1-2a	6	9.1-17	12	9.2-3.1	16	9.2-28	6
9.1-2b	7	9.1-18	6	9.2-4	14	9.2-29	6
9.1-2c	7	9.1-19	6	9.2-4.1	14	9.2-30	16
9.1-2d	16	9.1-20	6	9.2-5	14	9.2-31	6
9.1-2e	16	9.1-21	6	9.2-6	14	9.2-32	6
9.1-3	16	9.1-22	6	9.2-6.1	14	9.2-33	16
9.1-4	16	9.1-22.1	16	9.2-7	14	9.2-34	6
9.1-5	16	9.1-23	2	9.2-8	14	9.2-34a	6
9.1-6	16	9.1-24	2	9.2-9	14	9.2-35	2
9.1-6.1	16	9.1-25	2	9.2-9.1	14	9.2-36	2
9.1-6.2	16	9.1-26	6	9.2-10	16	9.2-37	2
9.1-6.3	16	9.1-27	6	9.2-10.1	16	9.2-38	2
9.1-6.4	16	9.1-28	6	9.2-11	11	9.2-39	6
9.1-6.5	16	9.1-29	6	9.2-12	11	9.2-40	6
9.1-6.6	16	9.1-30	6	9.2-12.1	11	9.2-41	6
9.1-6.7	16	9.1-31	6	9.2-12.2	11	9.2-42	7
9.1-6.8	16	9.1-32	16	9.2-13	16	9.2-43	7
9.1-6.9	16	9.1-33	6	9.2-14	2	9.2-44	7
9.1-6.10	16	9.1-34	6	9.2-15	7	9.2-45	11
9.1-6.11	16	9.1-35	16	9.2-15.1	14	9.2-46	11
9.1-6.12	16	9.1-36	6				
9.1-6.13	16	9.1-37	6				

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
9.3-11	15	9.4-viii	6	9.4-8	6	9.5-18	16
9.3-11i	16	9.4-ix	16	9.4-9	6	9.5-19	16
9.3-11ia	16	9.4-1	16	9.5-11	16	9.5-20	16
9.3-11ib	16	9.4-1.1	16	9.5-11i	16	9A COVER	
9.3-1v	16	9.4-1.2	16	9.5-1v	16	9A-1i	16
9.3-1	11	9.4-1.3	16	9.5-v	16	9A-1ii	16
9.3-1a	9	9.4-1.4	16	9.5-v.1	16	9A.1-1	14
9.3-2	6	9.4-1.5	16	9.5-v.2	16	9A.2-1i	6
9.3-3	12	9.4-2	16	9.5-v1	16	9A.2-1 - 8	16
9.3-4	2	9.4-2a	16	9.5-1 - 1.7	16	9A.2-1i	6
9.3-5	11	9.4-2b	16	9.5-2 - 2E	16	9A.3-1 - 2	16
9.3-6	2	9.4-2b.1	16	9.5-3 - 3.4	16	9A.4-1i	14
9.3-7 - 7.1	16	9.4-2c-2ia	16	9.5-4 - 4.2	16	9A.4-1ii	6
9.3-8	8	9.4-2j	6	9.5-5 - 5.1	16	9A.4-1v	6
9.3-9	4	9.4-2k	6	9.5-6 - 6.1	16	9A.4-v	6
9.3-10	4	9.4-3	6	9.5-7 - 7.1	16	9A.4-v1	6
9.3-11 - 11.2	16	9.4-3a	5	9.5-8 - 8a	16	9A.4-v1i	6
9.3-12	11	9.4-4	6	9.5-9	2	9A.4-v1ii	6
9.3-13	11	9.4-5	2	9.5-10	9	9A.4-ix	16
9.3-13.1	16	9.4-6	2	9.5-10.1	10	9A.4-x	16
9.3-13.2	16	9.4-7	2	9.5-10.2	10	9A.4-x1	6
9.3-14	3	9.4-7.1 - 7.5	16	9.5-10.3	10	9A.4-x1i	6
9.3-15	6	9.4-7.6	16	9.5-10.4	10	9A.4-x1ii	16
9.3-15a - 15f	16	9.4-7.7	16	9.5-10.5	16	9A.4-x1ii.1	16
9.3-16	2	9.4-7.8	16	9.5-10.6	16	9A.4-x1ii.2	16
9.3-17	2	9.4-7.9	16	9.5-10.7	16	9A.4-x1ii.3	16
9.3-18	2	9.4-7a	6	9.5-10.8	16	9A.4-x1ii.4	16
9.3-19 - 23	12	9.4-7b	16	9.5-10a	6	9A.4-xiv	14
9.3-24	11	9.4-7c	16	9.5-11	2	9A.4-xv	16
9.4-1i	16	9.4-7c.1	16	9.5-12	6	9A.4-xvi	16
9.4-1ii	16	9.4-7c.2	16	9.5-13	10	9A.4-xvii	16
9.4-1v	6	9.4-7d	6	9.5-14	14	9A.4-1 - 271	16
9.4-v	6	9.4-7e	6	9.5-15	14	9A.5-1i	16
9.4-v1	6	9.4-7f	6	9.5-16	14	9A.5-1ii	6
9.4-v1i	6	9.4-7g	6	9.5-17	16	9A.5-1 - 9	16
		9.4-7h	6			9A.6-1i	14
						9A.6-1 - 182	16

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10 COVER		10.4-11	3	10.4-32	16
10-11	3	10.4-111	3	10.4-33	11
10-111	3	10.4-iv	3	10.4-34	11
10.1-11	3	10.4-v	3	10.4-35	16
10.1-1	7	10.4-v1	3	10.4-36	11
10.1-2	7	10.4-1	3		
10.1-3	7	10.4-2	3		
10.1-4	7	10.4-3	3		
10.1-5	8	10.4-4	11		
10.1-6	7	10.4-5	11		
10.1-7	7	10.4-6	11		
10.1-8	7	10.4-7	16		
10.1-9	7	10.4-8	3		
10.2-11	3	10.4-9	3		
10.2-111	3	10.4-10	3		
10.2-1	16	10.4-11	3		
10.2-2	3	10.4-12	11		
10.2-3	8	10.4-13	11		
10.2-4	12	10.4-14	11		
10.2-5	8	10.4-15	11		
10.2-6	8	10.4-16	11		
10.2-7	6	10.4-17	11		
10.2-8	11	10.4-18	11		
10.2-9	3	10.4-19	11		
10.2-10	3	10.4-20	7		
10.2-11	3	10.4-21	3		
10.2-12	11	10.4-22	3		
10.2-13	3	10.4-23	3		
10.2-14	3	10.4-24	14		
10.3-11	3	10.4-25	3		
10.3-1	15	10.4-26	11		
10.3-2	15	10.4-27	11		
10.3-3	8	10.4-28	3		
10.3-4	3	10.4-29	3		
10.3-5	11	10.4-30	3		
10.3-6	3	10.4-31	11		
10.3-7	3	10.4-31.1	11		

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### CHAPTER 11 PAGE STATUS

PAGE	AMEND	PAGE	AMEND
11 COVER		11.5-7	16
11-11	7	11.5-8	16
11-111	6	11.5-9	16
11.1-11	6	11.5-9.1	16
11.1-111	6	11.5-10	16
11.1-1	6	11.5-11	16
11.1-2	6	11.5-12	16
11.1-3	6	11.5-13	16
11.1-4	6	11.5-14	16
11.1-5	6	11.5-15	16
11.1-6	6	11.5-16	16
11.1-7	6	11.5-17	16
11.1-8	6	11.5-18	16
11.1-9	6	11.5-19	16
11.1-10	6	11.5-20	16
11.1-11	6	11.5-21	2
11.1-12	6	11.5-22	16
11.2-11	6	11.6-1	7
11.2-111	16		
11.2-1 - 45	16		
11.3-11	16		
11.3-111	6		
11.3-iv	16		
11.3-v	16		
11.3-1 - 24	16		
11.4-11	6		
11.4-111	6		
11.4-1 - 9	16		
11.5-11	16		
11.5-111	16		
11.5-iv	16		
11.5-1	16		
11.5-2	16		
11.5-3	16		
11.5-4	16		
11.5-5	16		
11.5-6	16		

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
12 COVER		12.2-25	10	12.3-1	10	12.3-34	6
12-11	10	12.2-25.1	10	12.3-2	10	12.3-35	6
12.1-11	2	12.2-25.2	10	12.3-3	10	12.3-36	6
12.1-111	6	12.2-25.3	10	12.3-4	10	12.3-37	6
12.1-1	7	12.2-25.4	10	12.3-5	10	12.3-38	6
12.1-2	6	12.2-25.5	10	12.3-6	10	12.3-39	6
12.1-3	7	12.2-26	10	12.3-7	10	12.3-40	10
12.1-3a	7	12.2-26.1	10	12.3-8	10	12.3-41	10
12.1-4	6	12.2-27	10	12.3-9	10	12.3-42	10
12.2-11	10	12.2-27.1	10	12.3-10	10	12.3-43	10
12.2-111	10	12.2-27.2	10	12.3-11	10	12.3-44	10
12.2-1v	10	12.2-27.3	10	12.3-12	10	12.3-45	10
12.2-v	10	12.2-27.4	10	12.3-13	10	12.3-46	10
12.2-1	10	12.2-27.5	10	12.3-13a	6	12.3-47	10
12.2-2	10	12.2-27.6	10	12.3-13b	6	12.3-48	10
12.2-3	10	12.2-27.7	10	12.3-14	10	12.3-49	10
12.2-4	10	12.2-27.8	10	12.3-15	10	12.3-50	10
12.2-4.1	10	12.2-27.9	10	12.3-15.1	10	12.3-51 - 55	10
12.2-5	10	12.2-27.10	10	12.3-16	10	12.3-56	10
12.2-6	10	12.2-28	10	12.3-17	10	12.3-57	10
12.2-6.1	10	12.2-29	10	12.3-17.1	10	12.3-58	10
12.2-7	2	12.2-30	10	12.3-17.2	10	12.3-59	10
12.2-8	6	12.2-31	14	12.3-17.3	10	12.3-60	10
12.2-9	2	12.2-31.1	10	12.3-17.4	10	12.3-61	10
12.2-10	2	12.2-32	14	12.3-18	6	12.3-62	10
12.2-11	10	12.2-32.1	10	12.3-19	6	12.3-63	10
12.2-12	10	12.2-33	10	12.3-20	6	12.3-64	10
12.2-13	2	12.2-33.1	14	12.3-21	6	12.3-65	10
12.2-14	10	12.2-33.2	14	12.3-22	6	12.3-66	10
12.2-15	10	12.2-33.3	14	12.3-23	6	12.3-67	10
12.2-16	10	12.2-34	2	12.3-24	6	12.3-68	10
12.2-17	10	12.3-11	10	12.3-25	6	12.3-69	10
12.2-18	10	12.3-111	10	12.3-26	6	12.3-70	10
12.2-19	10	12.3-1v	6	12.3-27	6	12.3-71	10
12.2-20	10	12.3-v	6	12.3-28	6	12.3-72	10
12.2-21	10	12.3-v1	10	12.3-29	6	12.3-73	10
12.2-22	10	12.3-v11	10	12.3-30	6	12.3-74	10
12.2-23	10	12.3-v111	10	12.3-31	6	12.3-75	10
12.2-24	10	12.3-ix	10	12.3-32	6		
				12.3-33	6		



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**CHAPTER 12**  
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12.3-79 - 82	10
12.3-83	10
12.3-84	10
12.3-85	10
12.3-86	10
12.3-87	10
12.4-11	10
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12.4-3	10
12.5-1	7



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13.3-1	11
13.3-2	11
13.3-3	11
13.3-4	11
13.3-5	11
13.4-1	7
13.5-1	7
13.6-11	8
13.6-111	8
13.6-iv	8
13.6-1	8
13.6-2	16
13.6-3	15
13.6-4	2
13.6-5	2
13.6-6 - 19	8

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15 COVER		15.1-7	15	15.2-11	15	15.3-1	15
15-ii	15	15.1-8	15	15.2-12	15	15.3-2	15
15-iii	2	15.1-9	15	15.2-13	15	15.3-3	15
15-iv	2	15.1-10	15	15.2-14	15	15.3-4	0
15-v	15	15.1-11	10	15.2-15	15	15.3-5	0
15.0-ii	15	15.1-12	15	15.2-16	15	15.3-6	0
15.0-iii	15	15.1-13	15	15.2-17	16	15.3-7	0
15.0-1	15	15.1-14	0	15.2-18	15	15.3-8	15
15.0-1.1	15	15.1-15	0	15.2-19	15	15.3-9	0
15.0-2	15	15.1-16	15	15.2-20	15	15.3-10	15
15.0-2.1	15	15.1-17	15	15.2-21	15	15.3-11	15
15.0-3	15	15.1-18	15	15.2-22	15	15.3-12	15
15.0-4	15	15.1-19	15	15.2-23	2	15.3-13	15
15.0-5	15	15.2-i	0	15.2-24	0	15.3-14	15
15.0-6	15	15.2-iii	0	15.2-25	15	15.4-i	0
15.0-7	15	15.2-iv	0	15.2-26	15	15.4-iii	0
15.0-8	15	15.2-v	0	15.2-27	15	15.4-iv	0
15.0-9	15	15.2-vi	15	15.2-28	15	15.4-v	2
15.0-10	15	15.2-vii	9	15.2-29	15	15.4-vi	2
15.0-11	15	15.2-viii	15	15.2-30	15	15.4-vii	2
15.0-12	0	15.2-ix	15	15.2-31	15	15.4-1	7
15.0-13	15	15.2-x	0	15.2-32	15	15.4-2	2
15.0-14	15	15.2-xi	15	15.2-33	15	15.4-3	15
15.1-ii	0	15.2-xii	16	15.2-34	15	15.4-4	15
15.1-iii	0	15.2-1	15	15.2-35	15	15.4-5	0
15.1-iv	0	15.2-1.1	15	15.2-36	15	15.4-6	15
15.1-v	0	15.2-2	15	15.2-37	15	15.4-7	0
15.1-vi	15	15.2-2.1	15	15.2-38	15	15.4-8	2
15.1-vii	15	15.2-3	15	15.2-39	15	15.4-9	2
15.1-1	15	15.2-3.1	15	15.2-40	15	15.4-10	2
15.1-2	15	15.2-4	15	15.2-41	15	15.4-11	2
15.1-3	15	15.2-5	16	15.2-42	0	15.4-12	2
15.1-3.1	15	15.2-6	15	15.3-ii	0	15.4-13	2
15.1-4	15	15.2-7	15	15.3-iii	0	15.4-14	2
15.1-5	15	15.2-8	15	15.3-iv	0	15.4-15	15
15.1-5.1	15	15.2-9	15	15.3-v	0	15.4-16	2
15.1-6	15	15.2-10	15	15.3-vi	0	15.4-17	2
						15.4-18	2

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15.4-19	2	15.6-17	0	15.7-19	2	15A.4-3	0
15.4-20	2	15.6-18	10	15.7-20	2	15A.4-4	0
15.4-21	2	15.6-19	8	15.7-21	2	15A.4-5	0
15.4-22	2	15.6-20	8	15.7-22	0	15A.5-ii	0
15.4-23	15	15.6-21	8	15.8-ii	0	15A.5-1	0
15.4-24	15	15.6-22	8	15.8-1	15	15A.6-ii	0
15.4-25	2	15.6-23	8	15A COVER		15A.6-iii	0
15.5-i	2	15.6-24	2	15A-ii	0	15A.6-iv	0
15.5-iii	2	15.6-25	0	15A-iii	0	15A.6-v	0
15.5-1	2	15.6-26	0	15A-iv	0	15A.6-vi	0
15.5-2	0	15.6-27	0	15A.1-ii	0	15A.6-vii	0
15.5-3	2	15.6-28	0	15A.1-1	2	15A.6-viii	0
15.5-4	2	15.6-29	8	15A.2-ii	0	15A.6-ix	0
15.6-ii	0	15.6-29.1	8	15A.2-iii	0	15A.6-1	0
15.6-iii	0	15.6-30	8	15A.2-1	0	15A.6-2	0
15.6-iv	8	15.7-ii	9	15A.2-2	7	15A.6-3	0
15.6-v	0	15.7-iii	9	15A.2-3	0	15A.6-4	0
15.6-vi	8	15.7-iv	0	15A.2-4	0	15A.6-5	0
15.6-vii	8	15.7-v	0	15A.2-5	0	15A.6-6	0
15.6-1	0	15.7-1	9	15A.2-6	0	15A.6-7	0
15.6-2	0	15.7-2	9	15A.2-7	0	15A.6-8	0
15.6-3	3	15.7-3	2	15A.2-8	7	15A.6-9	2
15.6-4	0	15.7-4	2	15A.2-9	0	15A.6-10	0
15.6-5	7	15.7-5	0	15A.2-10	0	15A.6-11	2
15.6-6	8	15.7-6	2	15A.3-ii	0	15A.6-12	2
15.6-6.1	8	15.7-7	0	15A.3-1	0	15A.6-13	0
15.6-6.2	8	15.7-8	2	15A.3-2	0	15A.6-14	2
15.6-7	8	15.7-9	0	15A.3-3	0	15A.6-15	0
15.6-8	2	15.7-10	0	15A.3-4	0	15A.6-16	2
15.6-9	2	15.7-11	0	15A.3-5	0	15A.6-17	2
15.6-10	8	15.7-12	0	15A.3-6	0	15A.6-18	0
15.6-11	0	15.7-13	0	15A.4-ii	0	15A.6-19	0
15.6-12	2	15.7-14	12	15A.4-1	0	15A.6-20	2
15.6-13	2	15.7-15	12	15A.4-2	0	15A.6-21	0
15.6-14	2	15.7-16	2			15A.6-22	0
15.6-15	0	15.7-17	0			15A.6-23	0
15.6-16	2	15.7-18	2			15A.6-24	0
						15A.6-25	0

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15A.6-26	0	15A.6-65	0	15B.3-11	6	15E COVER	
15A.6-27	2	15A.6-66	0	15B.3-1	7	15E-11	15
15A.6-28	2	15A.6-67	0	15B.4-11	6	15E.1-1	15
15A.6-29	0	15A.6-68	0	15B.4-1	6	15E.2-11	15
15A.6-30	0	15A.6-69	0	15C COVER		15E.2-1	15
15A.6-31	0	15A.6-70	0	15C-11	15	15E.2-2	15
15A.6-32	0	15A.6-71	0	15C.1-1	15	15E.3-11	15
15A.6-33	0	15A.6-72	0	15C.2-11	15	15E.3-1	15
15A.6-34	0	15A.6-73	0	15C.2-1	15	15E.3-2	15
15A.6-35	0	15A.6-74	0	15C.2-2	15	15E.3-3	15
15A.6-36	0	15A.6-75	0	15C.2-2 - 5	15	15E.3-4	15
15A.6-37	0	15A.6-76	0	15C.3-1	15	15E.4-1	15
15A.6-38	0	15A.6-77	0	15C.4-1	15	15E.5-11	15
15A.6-39	0	15A.6-78	0	15C.5-11	15	15E.5-111	15
15A.6-40	0	15A.6-79	0	15C.5-1	15	15E.5-1	15
15A.6-41	0	15A.6-80	0	15C.5-2	15	15E.5-2	15
15A.6-42	0	15A.6-81	0	15C.5-3	15	15E.5-3	15
15A.6-43	0	15A.6-82	2	15C.5-4	15	15E.5-4	15
15A.6-44	0	15A.6-83	2	15C.5-5	15	15E.5-5	15
15A.6-45	0	15A.6-84	2	15C.5-6	15	15E.5-6	15
15A.6-46	0	15A.6-85	2	15C.5-7	15	15E.5-7	15
15A.6-47	0	15A.6-86	2	15C.5-8	15	15E.5-8	15
15A.6-48	0	15A.6-87	2	15D COVER		15E.5-9	15
15A.6-49	2	15A.6-88	2	15D-11	15	15E.5-10	15
15A.6-50	0	15A.6-89	7	15D.1-1	15	15E.5-11	15
15A.6-51	0	15A.6-90	7	15D.2-11	15	15E.5-12	15
15A.6-52	0	15A.6-91	7	15D.2-1	15	15E.5-13	15
15A.6-53	0	15A.7-11	0	15D.2-2	15	15E.5-14	15
15A.6-54	12	15A.7-1	0	15D.3-11	15	15E.5-15	15
15A.6-55	0	15A.8-11	0	15D.3-1	15	15E.5-16	15
15A.6-56	0	15A.8-1	0	15D.3-2	15	15E.5-17	15
15A.6-57	0	15B COVER		15D.3-3 - 4	15	15E.5-18	15
15A.6-58	0	15B-11	6	15D.4-11	15	15E.6-1	15
15A.6-59	2	15B.1-1	14	15D.4-1	15	15E.7-1	15
15A.6-60	2	15B.2-11	6	15D.4-2	15		
15A.6-61	2	15B.2-111	6				
15A.6-62	0	15B.2-1 - 24	16				
15A.6-63	0						
15A.6-64	0						



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19 COVER		19B-11	11	19D.5-1	10	19F.3-1	10
19-11	8	19B-111	16	19D.6-11	8	19F.4-1	10
19-111	8	19B-1v	16	19D.6-111	4	19G COVER	
19-1v	14	19B.1-11	14	19D.6-1v	4	19H COVER	
19.1-11	4	19B.1-1	14	19D.6-1	10	19H-11	8
19.1-1	14	19B.2-11	7	19D.7-11	4	19H.1-1	10
19.2-11	4	19B.2-111	11	19D.7-1	10	19H.2-11	8
19.2-111	4	19B.2-1	15	19D.8-11	4	19H.2-1	10
19.2-1	10	19B.3-11	15	19D.8-1	10	19H.3-11	8
19.3-11	8	19B.3-1	15	19E COVER		19H.3-1	10
19.3-111	8	19C COVER		19E-11	8	19H.4-11	8
19.3-1v	8	19C-11	15	19E-1	10	19H.4-1	11
19.3-1	14	19C-111	15	19E.2-11	8	19H.5-1	10
19.4-11	13	19C.1-1	15	19E.2-111	8	19I COVER	
19.4-111	13	19C.2-11	15	19E.2-1v	8	19I-11	8
19.4-1	13	19C.2-1 ~ 2	15	19E.2-v	10	19I.1-1	10
19.5-11	8	19C.3-11	15	19E.2-v1	8	19I.2-11	8
19.5-1	11	19C.3-1 ~ 35	15	19E.2-v11	8	19I.2-1	10
19.6-11	8	19C.4-1 ~ 2	16	19E.2-v111	8	19I.3-11	8
19.6-1	10	19D COVER		19E.2-1x	3	19I.3-1	10
19A COVER		19D-11	4	19E.2-x	8	19I.4-11	8
19A-11	6	19D-111	4	19E.2-1	15	19I.4-1	10
19A-111	6	19D.1-1	10	19E.3-11	4	19I.5-1	10
19A-1v	6	19D.2-11	4	19E.3-111	8	19J COVER	
19A-v	6	19D.2-1	10	19E.3-1	10	19J-11	9
19A.1-11	6	19D.3-11	4	19F COVER		19J.1-1	10
19A.1-1	10	19D.3-1	10	19F-11	9	19J.2-1	10
19A.2-11	6	19D.4-11	4	19F.1-11	4	19J.3-1	10
19A.2-111	6	19D.4-111	4	19F.1-1	10	19J.4-11	9
19A.2-1v	6	19D.4-1v	4	19F.2-11	4	19J.4-1	10
19A.2-v	6	19D.4-v	4	19F.2-111	4	19J.5-11	9
19A.2-1	10	19D.4-1	10	19F.2-1v	4	19J.5-1	13
19A.3-11	14	19D.5-11	8	19F.2-v	4	19J.6-11	9
19A.3-1	10	19D.5-111	8	19F.2-1	10		
19B COVER		19D.5-1v	8	19F.3-11	4		
		19D.5-v	9	19F.3-111	4		



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19J.6-1	10
19K-COVER	
19K-11	14
19K.1-1	14
19K.2-1	14
19K.3-1	14
19K.4-1	14
19K.5-11	14
19K.5-1	14
19K.6-1	14
19L-COVER	
19L-11	15
19L-111	15
19L.1-1	15
19L.2-1	15
19L.3-1	15
19L.4-11	15
19L.4-1 - 2	15
19L.5-11	15
19L.5-1 - 9	15
19L.6-11	15
19L.6-111	15
19L.6-1 - 18	15
19L.7-11	15
19L.7-1 - 3	15
19L.8-11	15
19L.8-1 - 4	15
19L.9-11	15
19L.9-1 - 2	15
19L.10-11	15
19L.10-1 - 2	15
19L.11-1	15



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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
20 COVER		20.2-4b	3	20.2-11j	3	20.2-14.4	10
20-11	9	20.2-4c	3	20.2-11k	3	20.2-14.5	10
20-111	16	20.2-4d	3	20.2-12	3	20.2-14.6	10
20.1-11	10	20.2-4e	3	20.2-12a	3	20.2-14.7	10
20.1-1	~	20.2-4f	3	20.2-12b	3	20.2-14.8	10
20.1-1.1		20.2-4g	3	20.2-12c	3	20.2-14.9	10
20.1-1.2	16	20.2-4h	3	20.2-12d	3	20.2-14.10	10
20.1-1.3	11	20.2-4i	3	20.2-12e	3	20.2-14.11	10
20.1-1.4	11	20.2-4j	3	20.2-12f	3	20.2-14.12	10
20.1-1.5	11	20.2-4k	3	20.2-12g	3	20.2-14.13	10
20.1-1.6	11	20.2-4l	3	20.2-12h	3	20.2-14.14	10
20.1-1.7	11	20.2-4m	3	20.2-12i	3	20.2-14.15	10
20.1-1.8	14	20.2-4n	3	20.2-12j	3	20.2-14.16	10
20.1-1.9	16	20.2-4o	3	20.2-12k	3	20.2-15	7
20.1-1.10	16	20.2-4p	12	20.2-12l	3	20.2-15.1	7
20.1-1.11	16	20.2-4q	9	20.2-12m	3	20.2-15.2	7
20.1-1.12	16	20.2-4r	16	20.2-12n	3	20.2-15.3	7
20.1-1.13	16	20.2-4s	16	20.2-12o	3	20.2-15.4	9
20.1-1.14	16	20.2-4t	16	20.2-12p	3	20.2-15.5	16
20.1-1.15	16	20.2-5	3	20.2-13	9	20.2-15.6	16
20.1-1.16	16	20.2-5a	3	20.2-13.1	9	20.2-15.7	16
20.1-1.17	16	20.2-5b	3	20.2-13.2	11	20.2-15.8	16
20.1-1.18	16	20.2-5c	7	20.2-13.2.1	11	20.2-15.9	16
20.1-1.19	16	20.2-6	3	20.2-13.3	9	20.2-15.10	16
20.1-1.20	16	20.2-6a	3	20.2-13.4	9	20.2-15.11	16
20.1-1.21	16	20.2-7	2	20.2-13.5	9	20.2-15.12	16
20.1-2	16	20.2-8	2	20.2-13.6	11	20.2-15.13	16
20.1-3	16	20.2-9	2	20.2-13.7	9	20.2-15.14	16
20.1-4	16	20.2-10	2	20.2-13.8	9	20.2-15.15	16
20.1-5	16	20.2-11	2	20.2-13.9	9	20.2-15.16	16
20.1-6	16	20.2-11a	3	20.2-13.10	9	20.2-15.17	16
20.2-11	9	20.2-11b	3	20.2-13.11	9	20.2-15.18	16
20.2-1	2	20.2-11c	3	20.2-13.12	11	20.2-15.19	16
20.2-2	16	20.2-11d	3	20.2-13.13	11	20.2-15.20	16
20.2-3	3	20.2-11e	3	20.2-13.14	11	20.2-15.21	16
20.2-4	3	20.2-11f	3	20.2-14	10	20.2-15.22	16
20.2-4a	3	20.2-11g	3	20.2-14.1	10	20.2-15.23	16
		20.2-11h	3	20.2-14.2	10	20.2-15.24	16
		20.2-11i	3	20.2-14.3	10	20.2-15.25	16

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## Standard Plant

### CHAPTER 20

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
20.2-15.26	16	20.2-24.2	16	20.3-9	12	20.3-46	3
20.2-15.27	16	20.2-24.3	16	20.3-10	3	20.3-47	7
20.2-15.28	16	20.2-24.4	16	20.3-11	3	20.3-47.1	7
20.2-16	11	20.2-24.5	16	20.3-12	7	20.3-48	12
20.2-16.1	11	20.2-24.6	16	20.3-13	9	20.3-48.1	9
20.2-16.2	11	20.2-25	16	20.3-14	11	20.3-49	7
20.2-16.3	11	20.2-25.1	16	20.3-15	13	20.3-50	3
20.2-16.4	11	20.2-25.2	16	20.3-16	11	20.3-51	3
20.2-16.5	11	20.2-25.3	16	20.3-17	10	20.3-52	3
20.2-17	16	20.2-25.4	16	20.3-18	2	20.3-53	8
20.2-17.1	16	20.2-25.5	16	20.3-19	2	20.3-54	3
20.2-17.2	16	20.2-25.6	16	20.3-20	2	20.3-55	11
20.2-17.3	16	20.2-25.7	16	20.3-21	3	20.3-56	11
20.2-17.4	16	20.2-25.8	16	20.3-22	7	20.3-57	9
20.2-17.5	16	20.2-25.9	16	20.3-23	3	20.3-58	9
20.2-17.6	16	20.2-25.10	16	20.3-24	5	20.3-59	9
20.2-18	1	20.2-25.11	16	20.3-25	5	20.3-59.1	10
20.2-18.1	7	20.2-25.12	16	20.3-26	5	20.3-59.1.1	7
20.2-18.2	7	20.2-25.13	16	20.3-27	14	20.3-59.2	8
20.2-18.3	7	20.2-25.14	16	20.3-28	5	20.3-59.3	8
20.2-18.4	7	20.2-25.15	16	20.3-29	14	20.3-59.4	8
20.2-18.5	13	20.2-25.16	16	20.3-30	3	20.3-60	11
20.2-19	7	20.3-11	16	20.3-31	7	20.3-61	11
20.2-19.1	15	20.3-11a	16	20.3-32	3	20.3-61.1	11
20.2-19.2	15	20.3-111	16	20.3-33	3	20.3-61.2	11
20.2-19.3	15	20.3-1v	7	20.3-34	3	20.3-62	3
20.2-20	2	20.3-v	10	20.3-35	3	20.3-63	9
20.2-21	9	20.3-vi	12	20.3-36	10	20.3-64	12
20.2-21a	9	20.3-vii	16	20.3-37	10	20.3-65	8
20.2-21b	9	20.3-viii	16	20.3-38	7	20.3-65.1	9
20.2-21c	3	20.3-1	3	20.3-38.1	7	20.3-66	3
20.2-21d	3	20.3-2	7	20.3-39	3	20.3-67	3
20.2-22	9	20.3-3	2	20.3-40	10	20.3-68	3
20.2-23	9	20.3-4	2	20.3-41	3	20.3-69	3
20.2-24	16	20.3-5	2	20.3-42	3	20.3-70	3
20.2-24.1	16	20.3-6	2	20.3-43	7	20.3-71a	3
		20.3-7	2	20.3-44	3	20.3-71b	3
		20.3-8	2	20.3-45	14		

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## Standard Plant

### CHAPTER 20

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
20.3-71c	3	20.3-89	3	20.3-117	3	20.3-143	10
20.3-72	3	20.3-90	3	20.3-118	3	20.3-143.1	11
20.3-72a	3	20.3-91	3	20.3-119	3	20.3-143.2	11
20.3-72b	3	20.3-92	3	20.3-120	3	20.3-144	12
20.3-72c	3	20.3-93	3	20.3-121	3	20.3-145	5
20.3-72d	3	20.3-93a	3	20.3-122	3	20.3-146	4
20.3-72e	3	20.3-93b	3	20.3-123	3	20.3-147	4
20.3-72f	3	20.3-94	3	20.3-124	3	20.3-148	4
20.3-72g	3	20.3-95	3	20.3-125	3	20.3-149	4
20.3-72h	3	20.3-96	3	20.3-125a	7	20.3-150	7
20.3-72i	7	20.3-97	3	20.3-125b	7	20.3-150.1	7
20.3-72j	7	20.3-98	3	20.3-126	11	20.3-151	7
20.3-72k	7	20.3-99	3	20.3-126.1	11	20.3-152	4
20.3-72l	7	20.3-100	3	20.3-127	3	20.3-153	8
20.3-72m	7	20.3-101	8	20.3-128	15	20.3-153.1	11
20.3-72n	7	20.3-102	3	20.3-128.1	11	20.3-153.2	8
20.3-73	3	20.3-103	3	20.3-129	13	20.3-154	8
20.3-74	3	20.3-104	3	20.3-130	11	20.3-155	4
20.3-75	3	20.3-105	3	20.3-130.1	11	20.3-156	4
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20.3-78	3	20.3-108	15	20.3-133	11	20.3-159	7
20.3-79	3	20.3-109	15	20.3-133.1	11	20.3-160	4
20.3-80	3	20.3-109.1	15	20.3-134	11	20.3-161	12
20.3-81	7	20.3-110	15	20.3-134.1	11	20.3-162	8
20.3-81.1	7	20.3-110.1	15	20.3-135	3	20.3-162.1	8
20.3-82	7	20.3-110.2	15	20.3-136	10	20.3-163	4
20.3-82.1	12	20.3-111	15	20.3-137	3	20.3-164	7
20.3-83	3	20.3-111.1	15	20.3-138	11	20.3-164.1	8
20.3-84	3	20.3-112	15	20.3-139	11	20.3-165	7
20.3-85	7	20.3-112.1	15	20.3-139.1	11	20.3-166	7
20.3-85.1	7	20.3-113	3	20.3-140	9	20.3-167	7
20.3-86	10	20.3-114	15	20.3-140.1	11	20.3-168	7
20.3-86.1	10	20.3-115	15	20.3-141	9	20.3-169	7
20.3-87	10	20.3-115.1	15	20.3-142	11	20.3-170	7
20.3-87.1	10	20.3-116	7	20.3-142.1	11	20.3-171	7
20.3-88	10					20.3-172	7
20.3-88.1	10						

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## Standard Plant

### CHAPTER 20

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PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
20.3-173	7	20.3-206	16	20.3-240	9	20.3-253.25	10
20.3-174	16	20.3-206.1	9	20.3-241	9	20.3-253.26	10
20.3-174.1	16	20.3-207	9	20.3-242	9	20.3-253.27	10
20.3-175	9	20.3-208	9	20.3-243	9	20.3-253.28	10
20.3-175.1	9	20.3-209	9	20.3-244	9	20.3-253.29	10
20.3-176	7	20.3-210	9	20.3-245	9	20.3-253.30	10
20.3-177	7	20.3-211	9	20.3-246	9	20.3-253.31	10
20.3-178	7	20.3-212	9	20.3-247	9	20.3-253.32	10
20.3-179	7	20.3-213	11	20.3-248	9	20.3-253.33	10
20.3-180	7	20.3-214	11	20.3-249	14	20.3-253.34	10
20.3-181	7	20.3-214.1	11	20.3-250	9	20.3-253.35	10
20.3-182	7	20.3-215	9	20.3-251	9	20.3-254	9
20.3-183	7	20.3-216	9	20.3-252	9	20.3-255-290.1	15
20.3-184	7	20.3-217	9	20.3-253	10	20.3-291	11
20.3-185	7	20.3-218	9	20.3-253.1	10	20.3-292	11
20.3-186	7	20.3-219	9	20.3-253.2	10	20.3-293	11
20.3-187	7	20.3-220	9	20.3-253.3	10	20.3-294	11
20.3-188	7	20.3-221	9	20.3-253.4	10	20.3-295	11
20.3-189	10	20.3-222	9	20.3-253.5	10	20.3-296	11
20.3-190	7	20.3-223	9	20.3-253.6	10	20.3-297	11
20.3-191	7	20.3-224	9	20.3-253.7	10	20.3-298	11
20.3-192	10	20.3-225	9	20.3-253.8	10	20.3-297	11
20.3-193	7	20.3-226	9	20.3-253.9	10	20.3-298	11
20.3-194	10	20.3-227	9	20.3-253.10	10	20.3-299	14
20.3-195	10	20.3-228	9	20.3-253.11	10	20.3-300	14
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20.3-204	7	20.3-238	9	20.3-253.22	10	20.3-311	11
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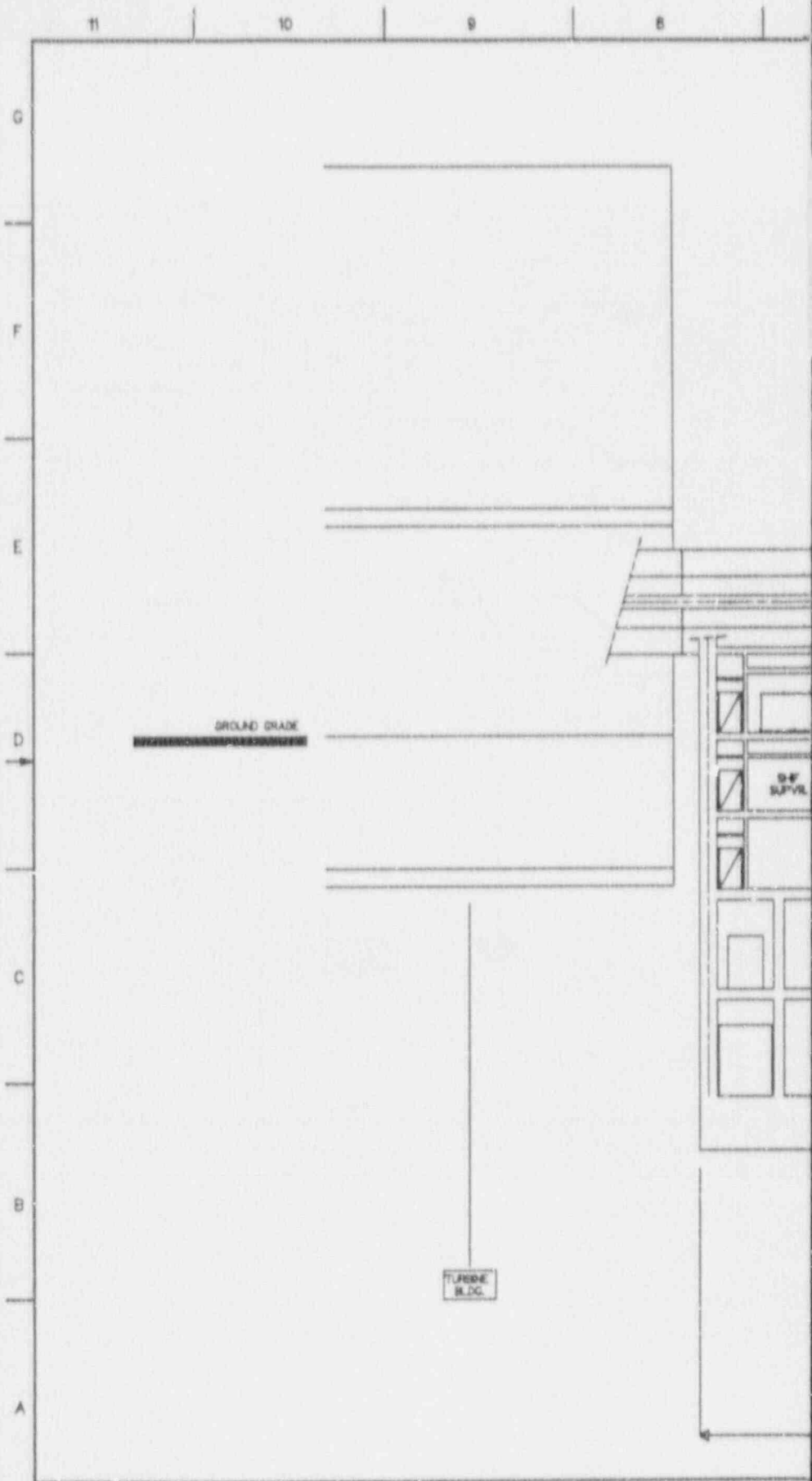
# ABWR

## Standard Plant

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#### PAGE STATUS (Continued)

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
20.3-313	11	20.3-354	16	20A-2	3	20B-34	11
20.3-314	11	20.3-354.1	16	20A-3	3	20B-35	11
20.3-315	11	20.3-354.2	16	20A-4	3	20B-36	11
20.3-316	11	20.3-354.3	16	20A-5	3	20B-37	11
20.3-317	11	20.3-354.4	16	20B COVER		20B-38	11
20.3-318	11	20.3-354.5	16	20B-1	10	20B-39	11
20.3-319	11	20.3-354.6	16	20B-2	11	20B-40	11
20.3-320 - 349	15	20.3-354.7	16	20B-3	11	20B-41	11
20.3-350 -		20.3-354.8	16	20B-4	11	20B-42	11
350.18	16	20.3-354.9	16	20B-5	11	20B-43	11
20.3-350.19	16	20.3-354.10	16	20B-6	11	20B-44	11
20.3-351	16	20.3-354.11	16	20B-7	11	20B-45	11
20.3-351.1	16	20.3-354.12	16	20B-8	11	20B-46	15
20.3-351.2	16	20.3-354.13	16	20B-9	11	20B-47	15
20.3-351.3	16	20.3-354.14	16	20B-10	11		
20.3-351.4	16	20.3-354.15	16	20B-11	11		
20.3-351.5	16	20.3-354.16	16	20B-12	11		
20.3-351.6	16	20.3-354.17	16	20B-13	11		
20.3-351.7	16	20.3-354.18	16	20B-14	11		
20.3-351.8	16	20.3-354.19	16	20B-15	11		
20.3-351.9	16	20.3-354.20	16	20B-16	11		
20.3-351.10	16	20.3-354.21	16	20B-17	11		
20.3-351.11	16	20.3-354.22	16	20B-18	11		
20.3-351.12	16	20.3-354.23	16	20B-19	11		
20.3-351.13	16	20.3-354.24	16	20B-20	11		
20.3-351.14	16	20.3-354.25	16	20B-21	11		
20.3-351.15	16	20.3-354.26	16	20B-22	11		
20.3-351.16	16	20.3-354.27	16	20B-23	11		
20.3-351.17	16	20.3-354.28	16	20B-24	11		
20.3-351.18	16	20.3-354.29	16	20B-25	11		
20.3-351.19	16	20.3-354.30	16	20B-26	11		
20.3-351.20	16	20.3-354.30	16	20B-27	11		
20.3-351.21	15	20.3-355 - 385	16	20B-28	11		
20.3-351.22	16	20.4-1	15	20B-29	11		
20.3-351.23 -		20A COVER		20B-30	11		
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20.3-351.29	15	20A-1	3	20B-32	11		
20.3-352	16			20B-33	11		
20.3-353	16						





# ABWR Standard Plant

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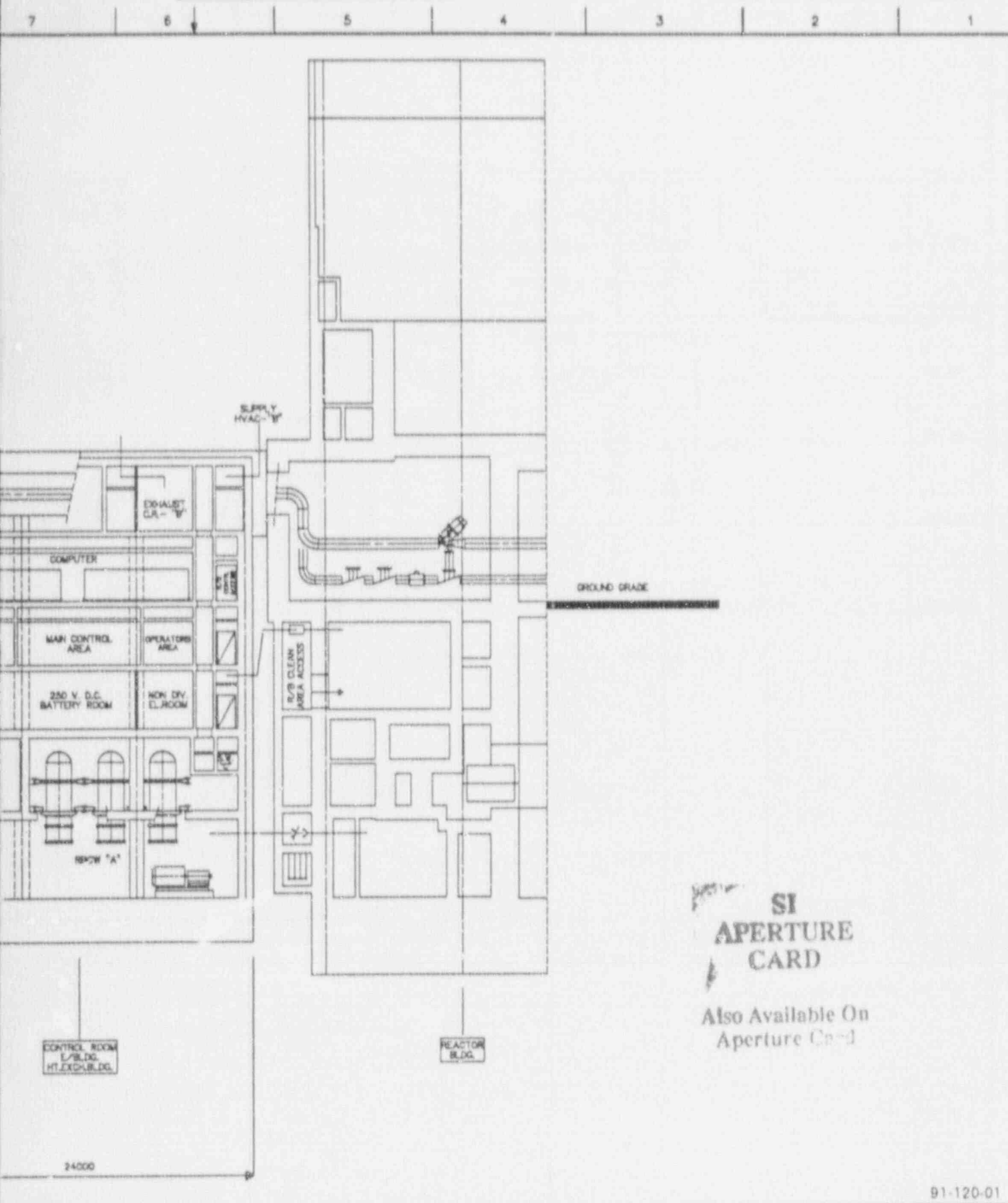
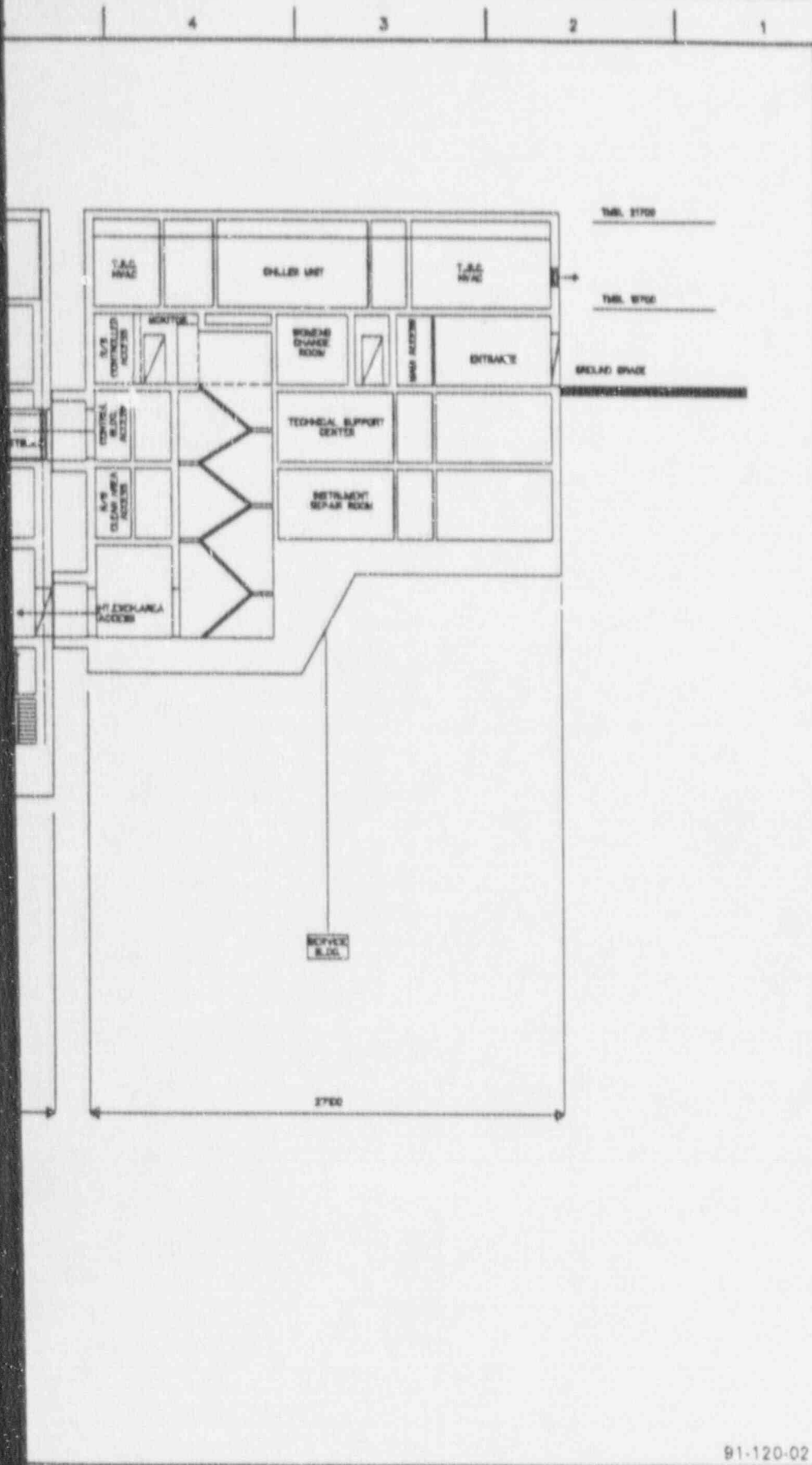


Figure 1.2-14 CONTROL AND SERVICE BUILDING,  
ARRANGEMENT ELEVATION, SECTION 0/180°

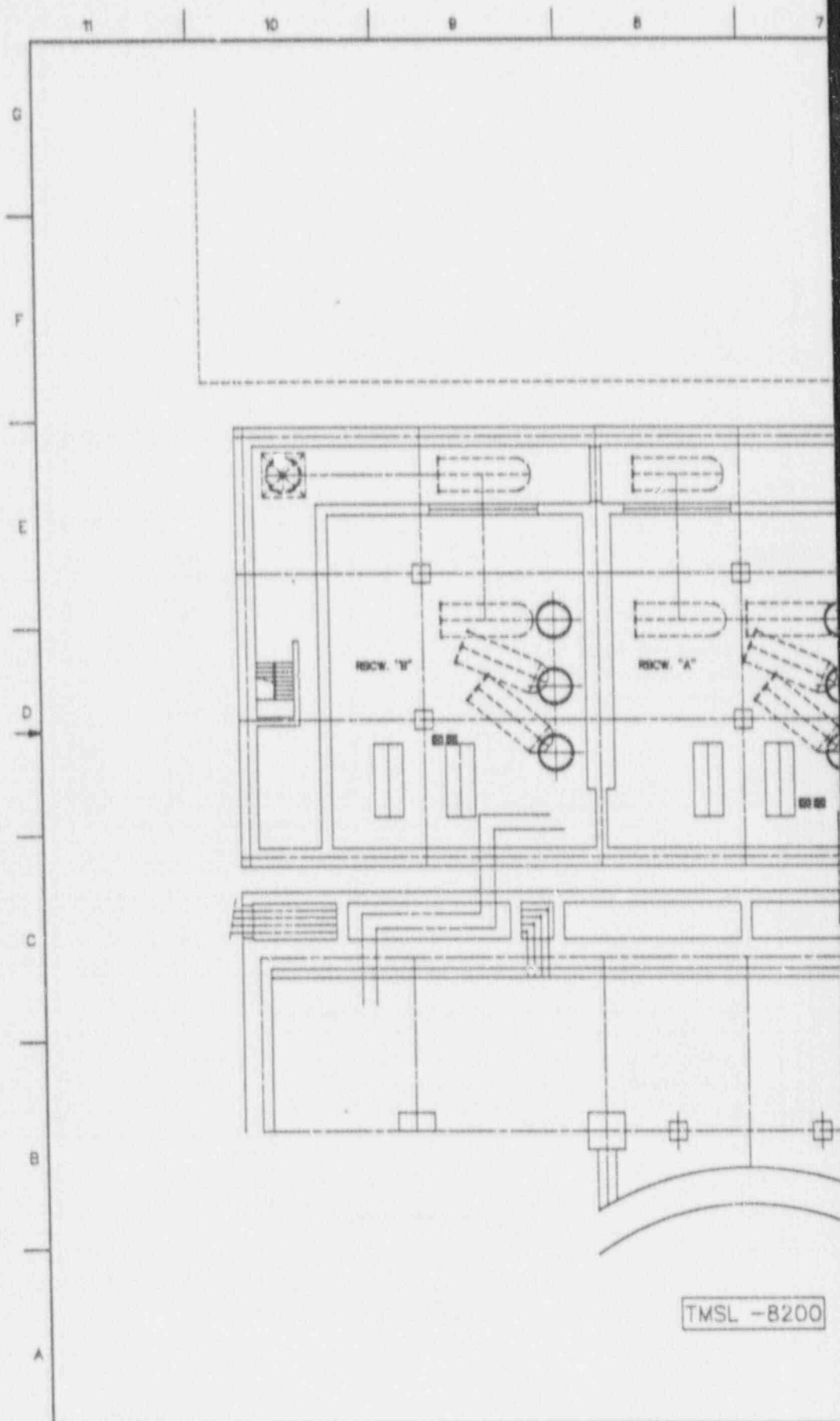
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Figure 1.2-15 CONTROL AND SERVICE BUILDING,  
ARRANGEMENT ELEVATION, SECTION 270/90°



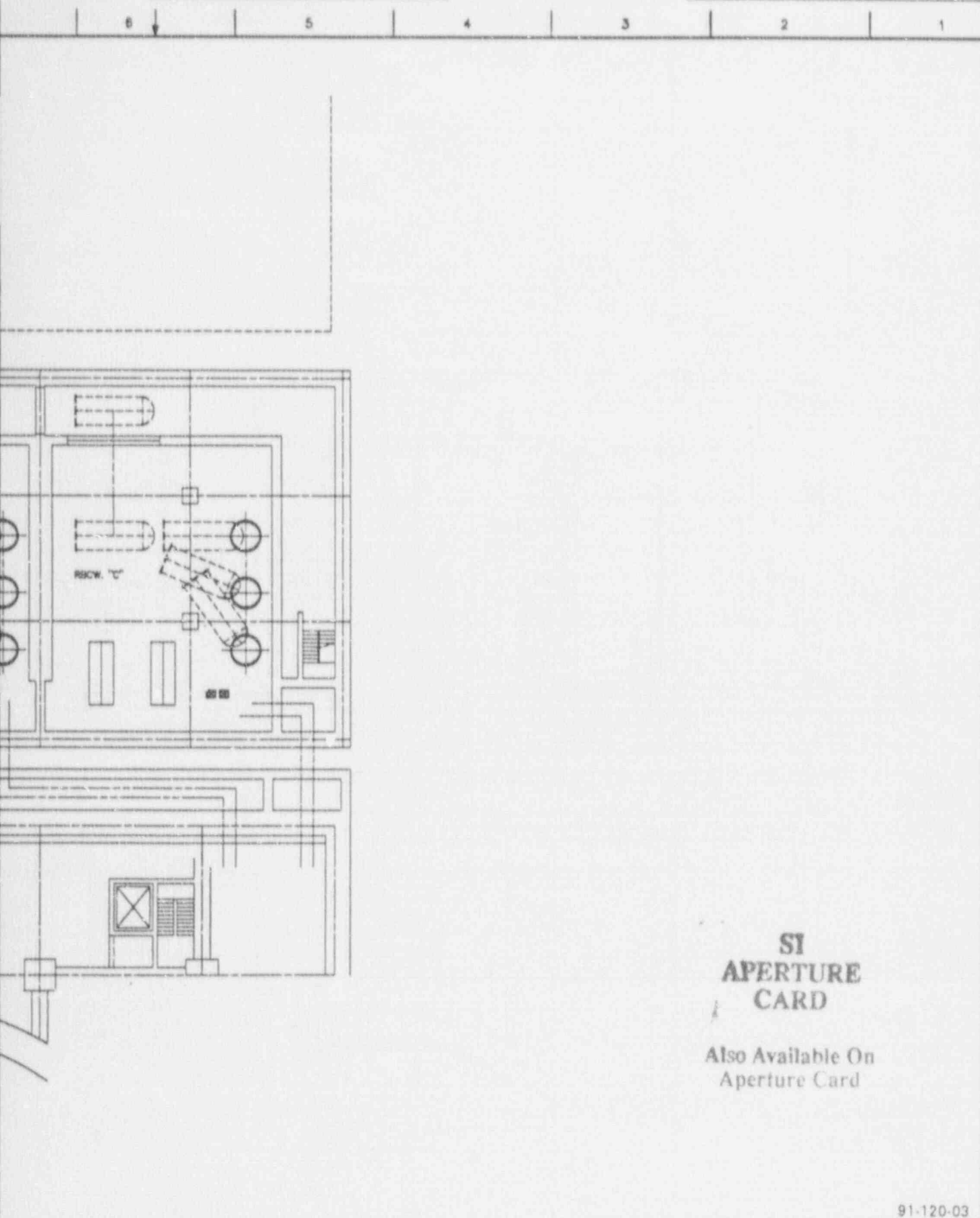


Figure 1.2-16 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL (-) 8200mm



Architectural floor plan of a building, likely a laboratory or industrial facility, showing a grid system (11, 10, 9, 8, 7, 6) and a vertical axis (A, B, C, D, E, F, G). The plan includes a central corridor, several rooms, and a large curved structure at the bottom. The building is divided into three main sections, each containing a set of three circular rooms. A staircase is located on the left side. A label 'TMSL -2150' is present at the bottom center.

Amendment 16



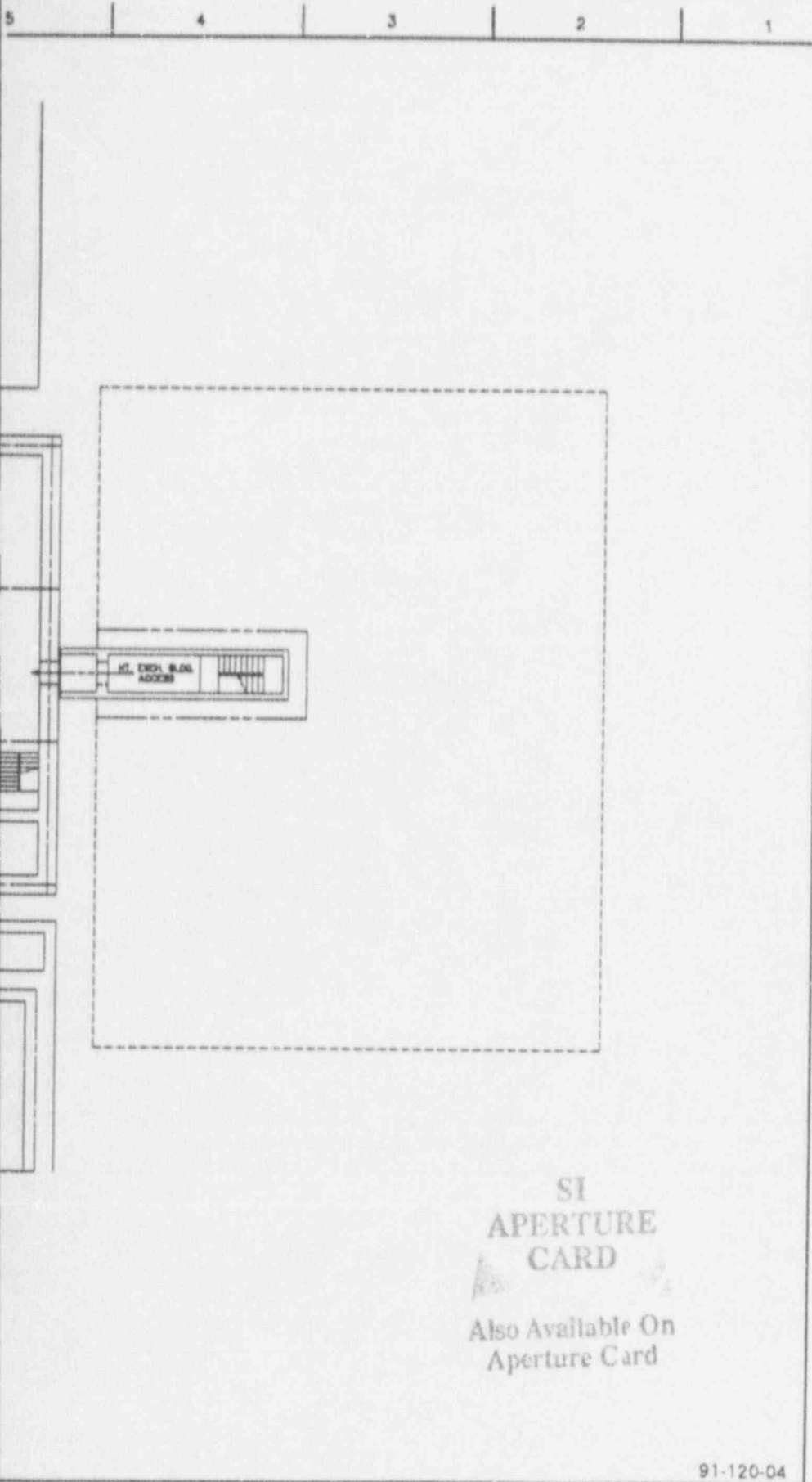
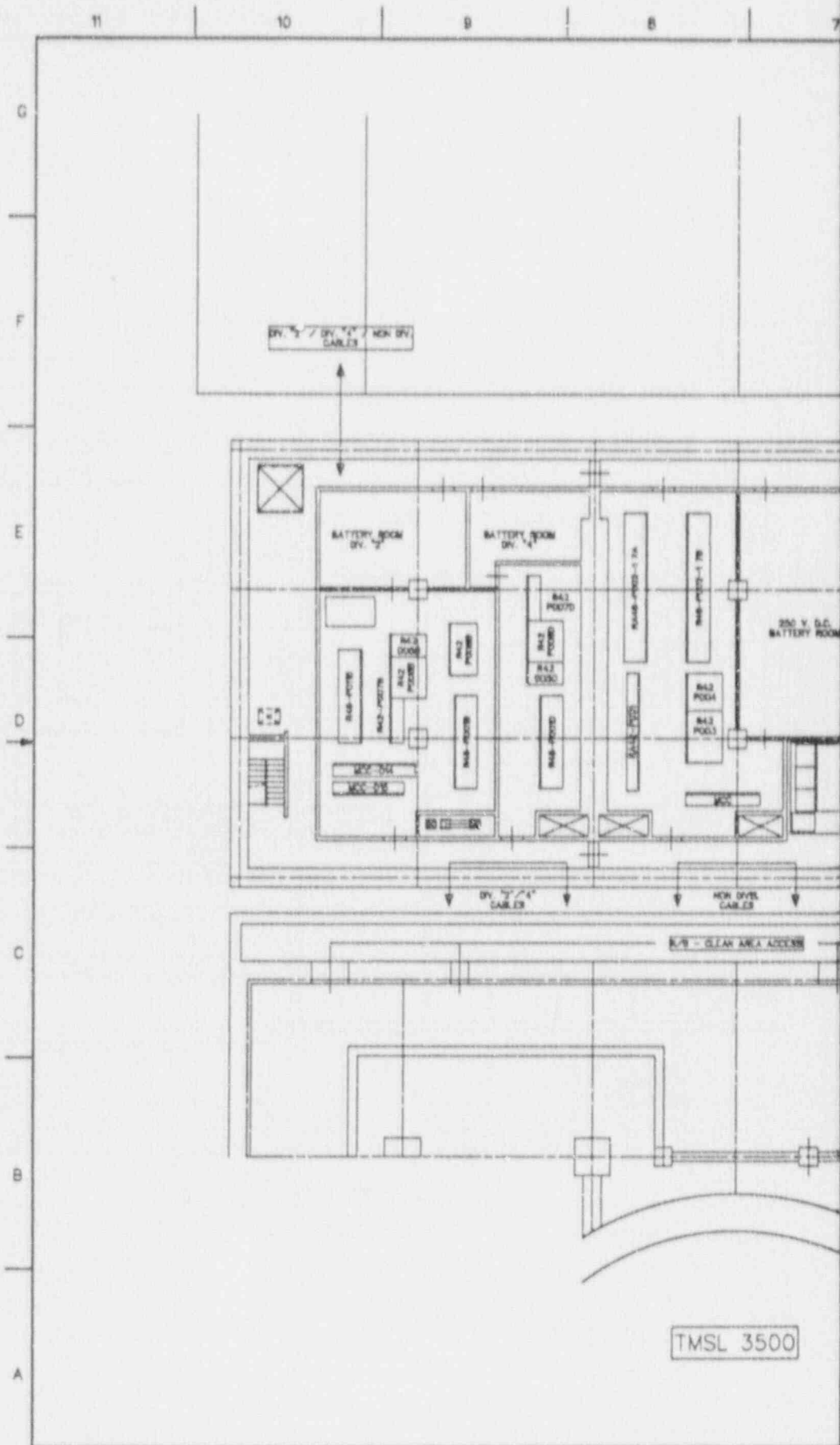
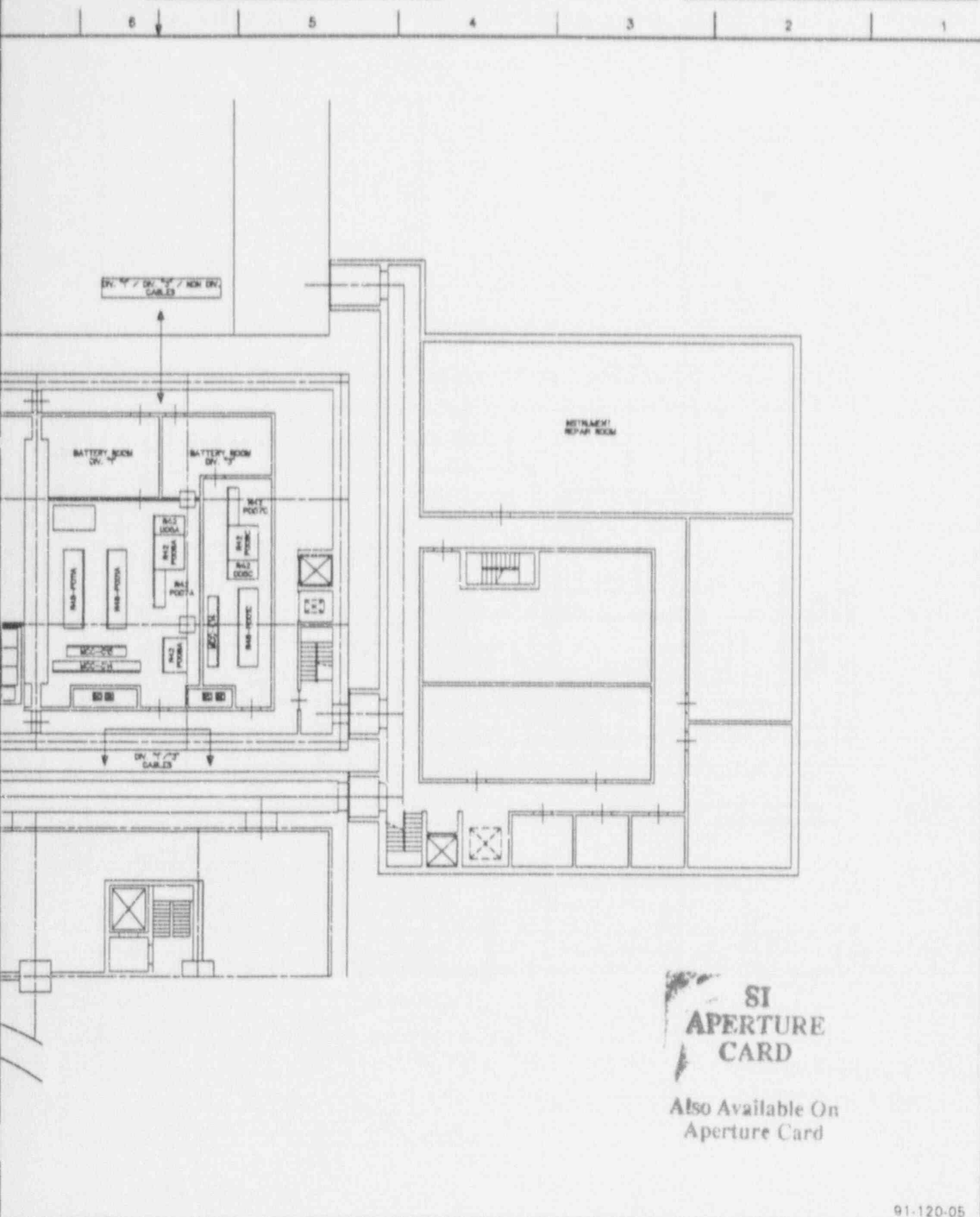


Figure 1.2-17 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL (-) 2150mm





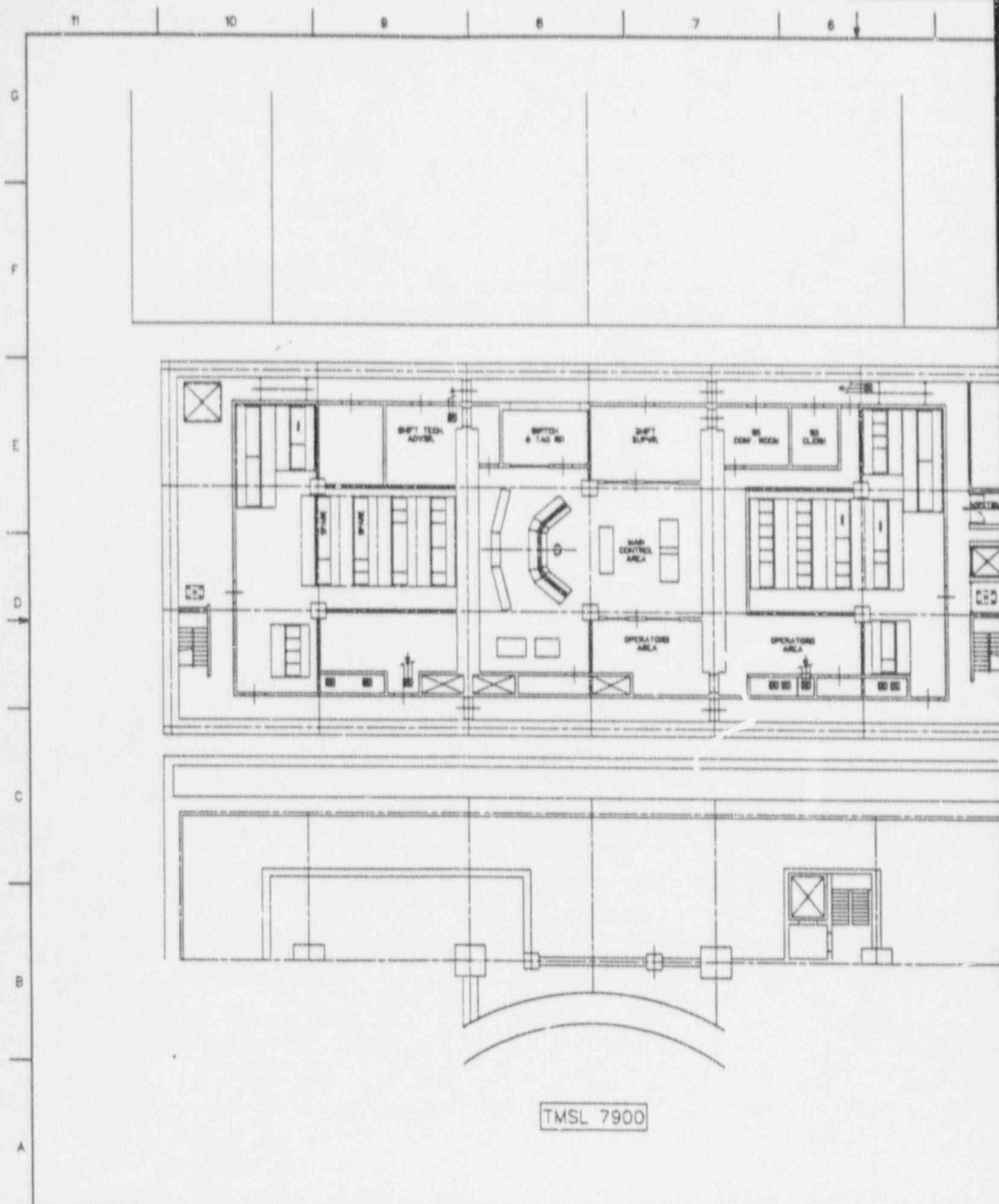
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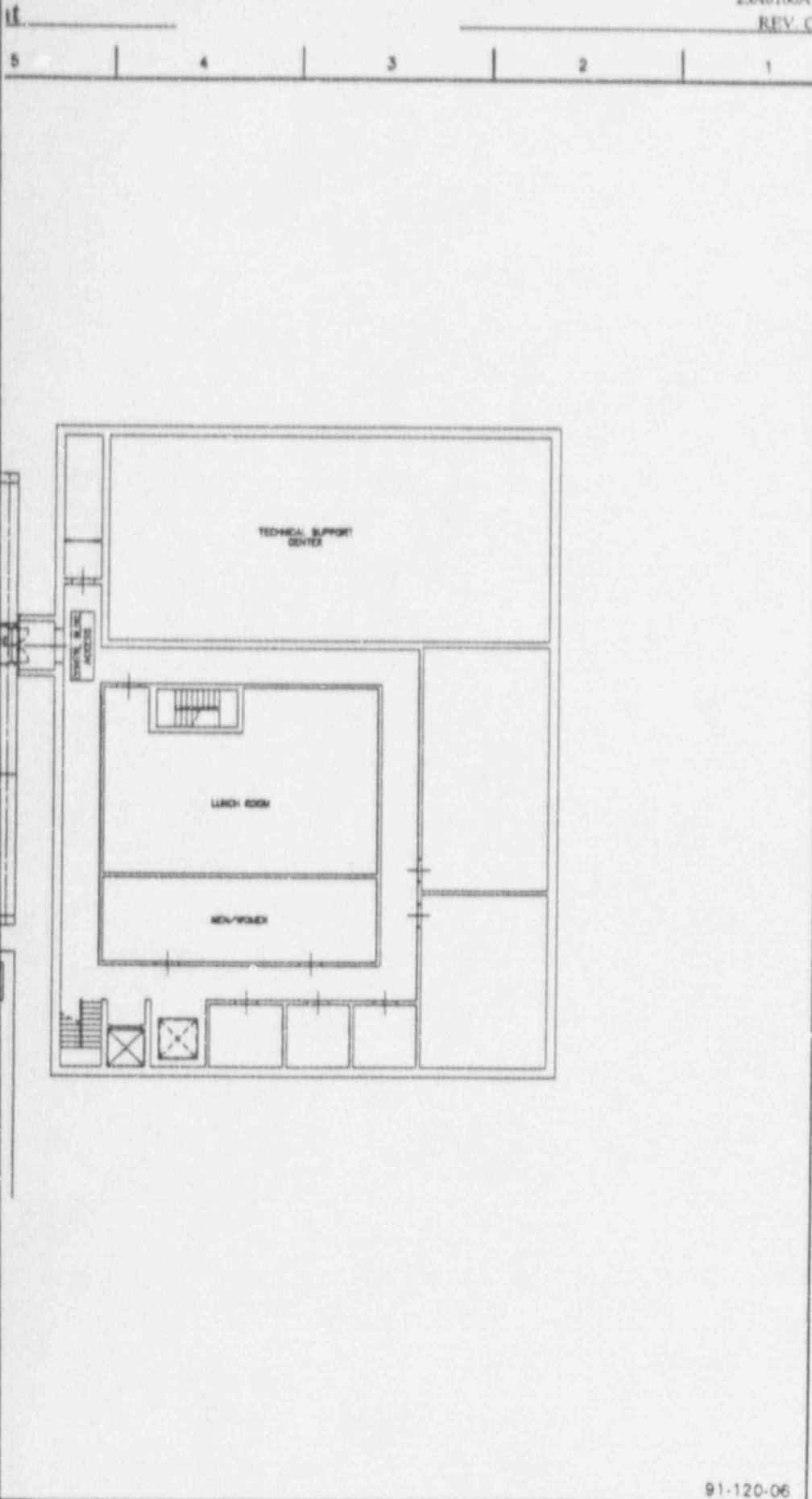
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Figure 1.2-18 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL 350.7m

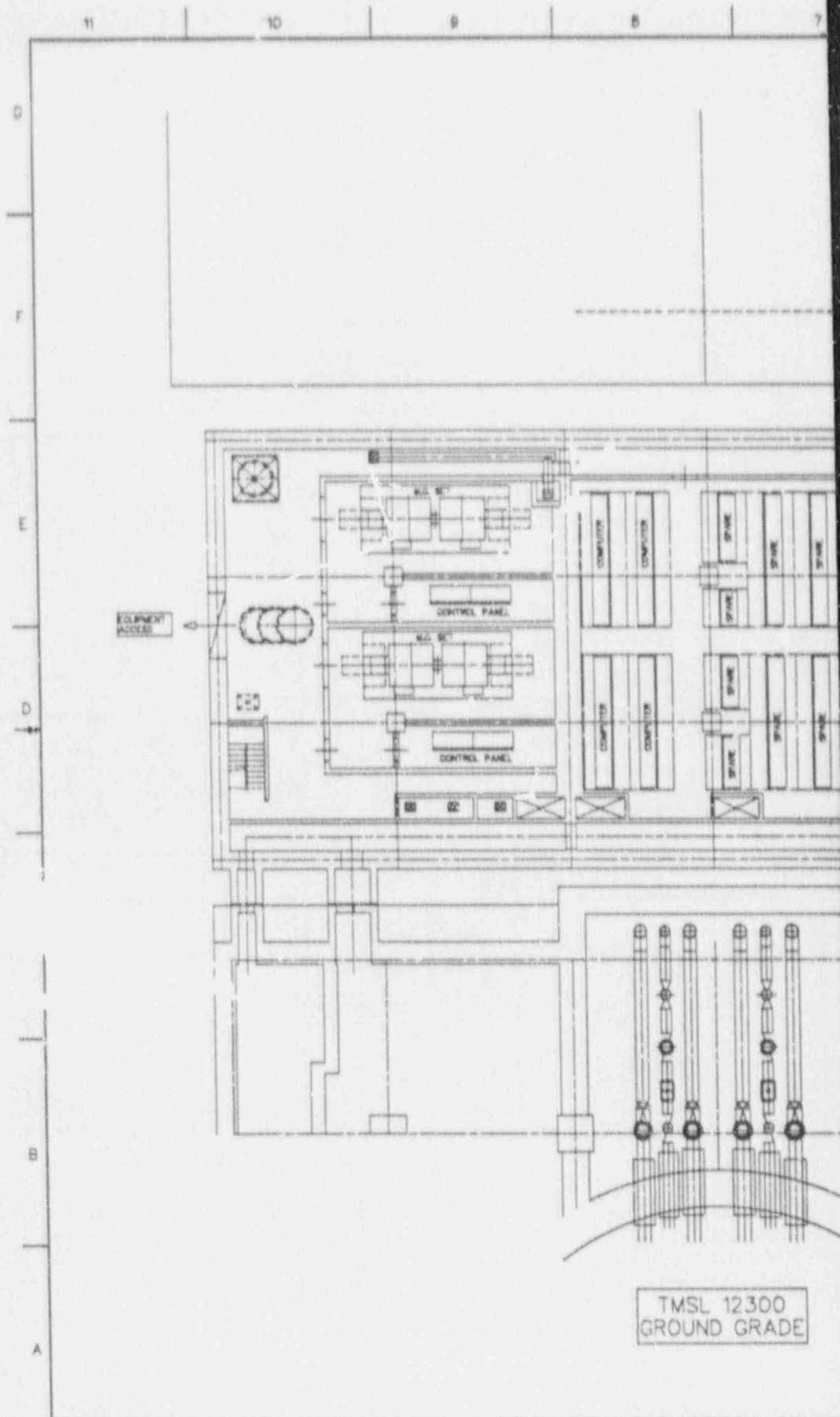
# ABWR Standard Plan



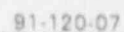


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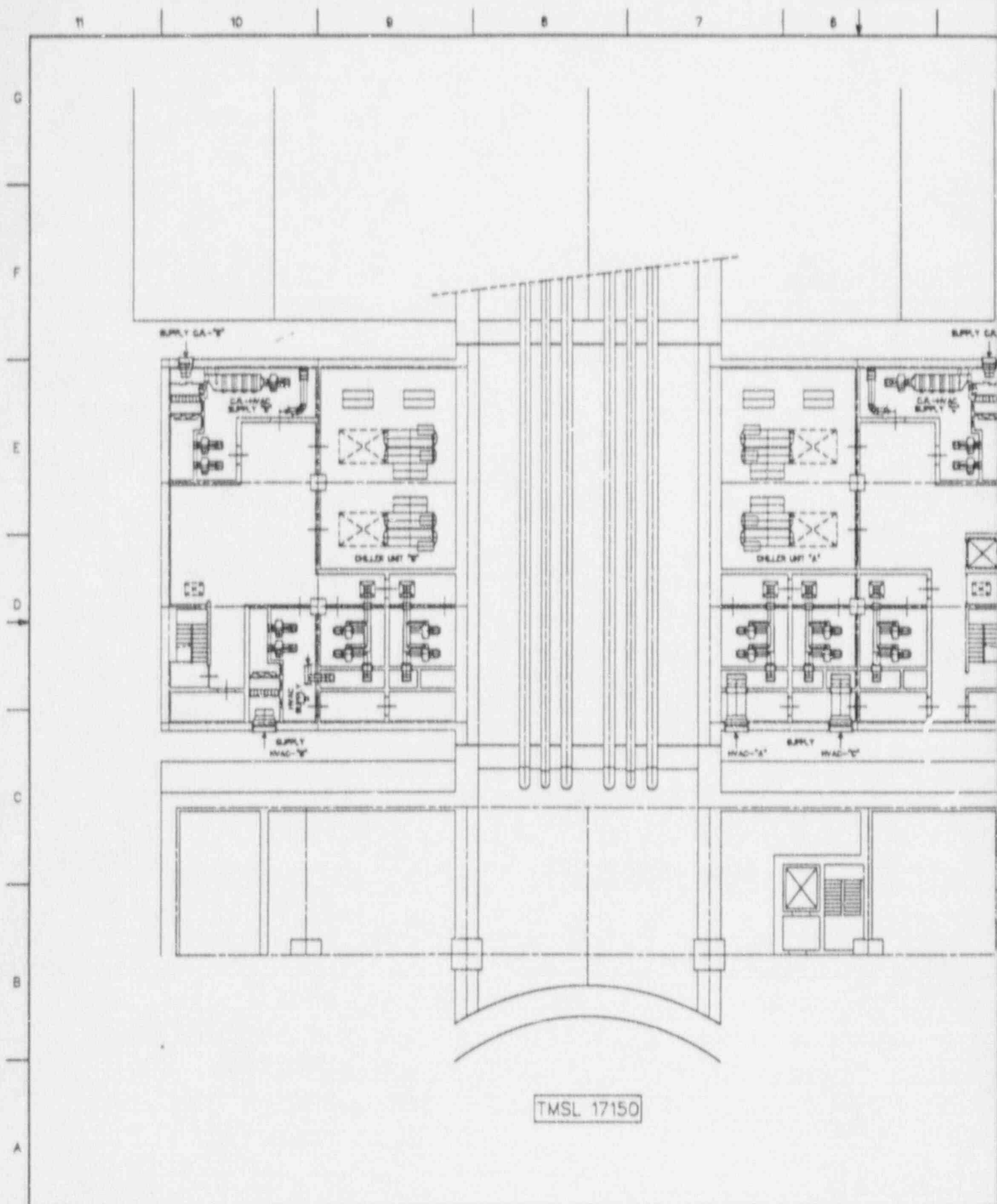
Figure 1.2-19 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL 7900mm

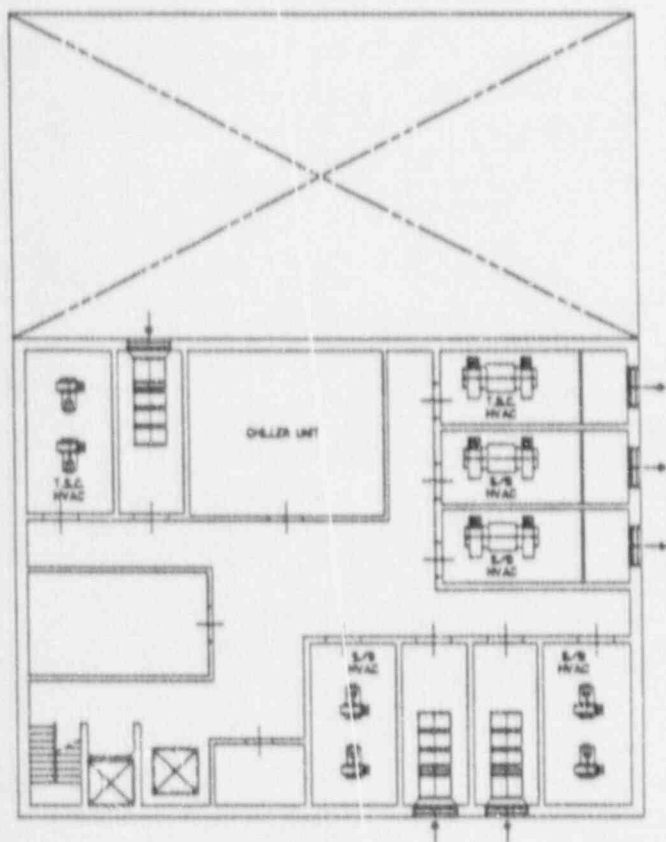






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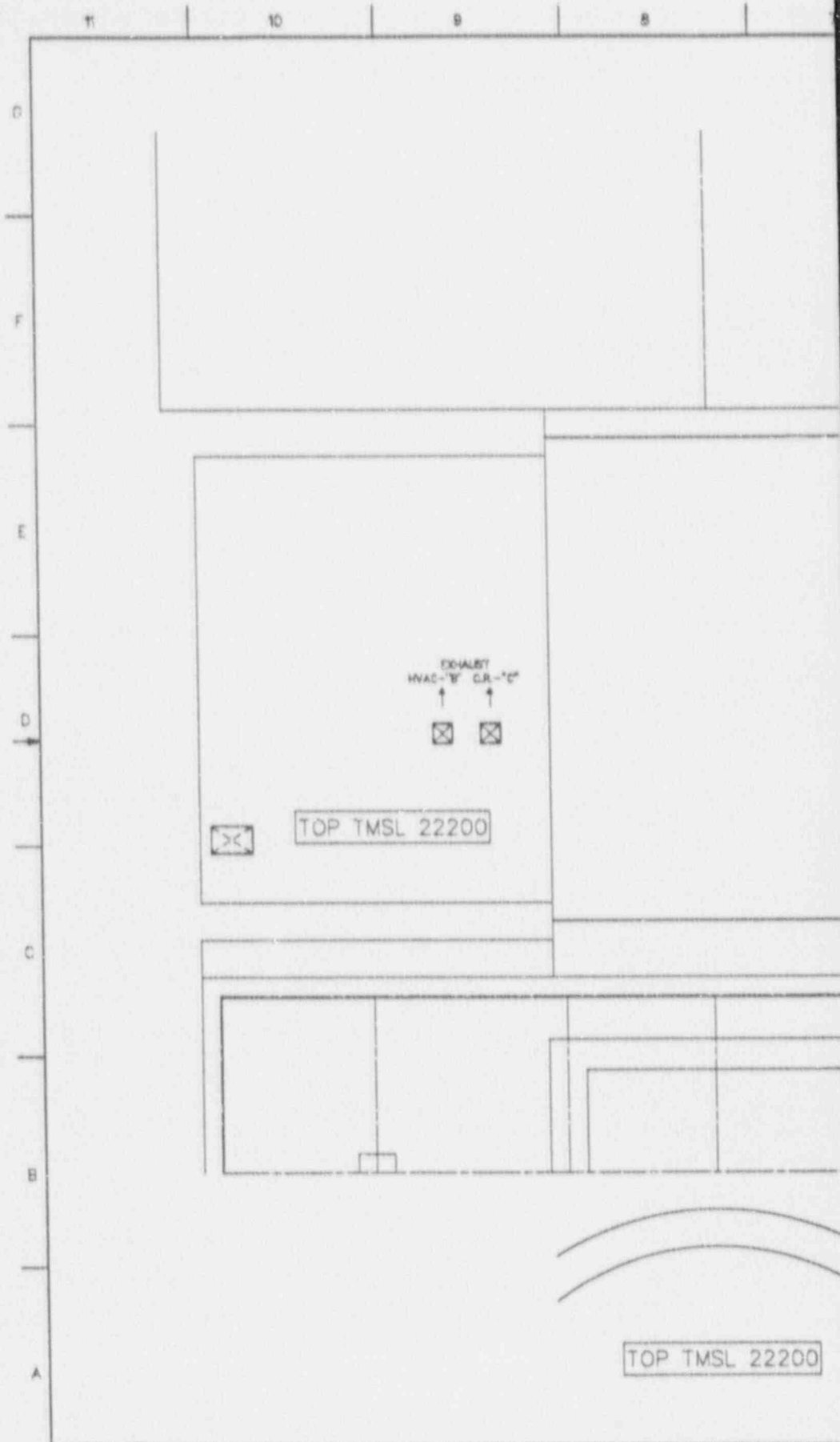
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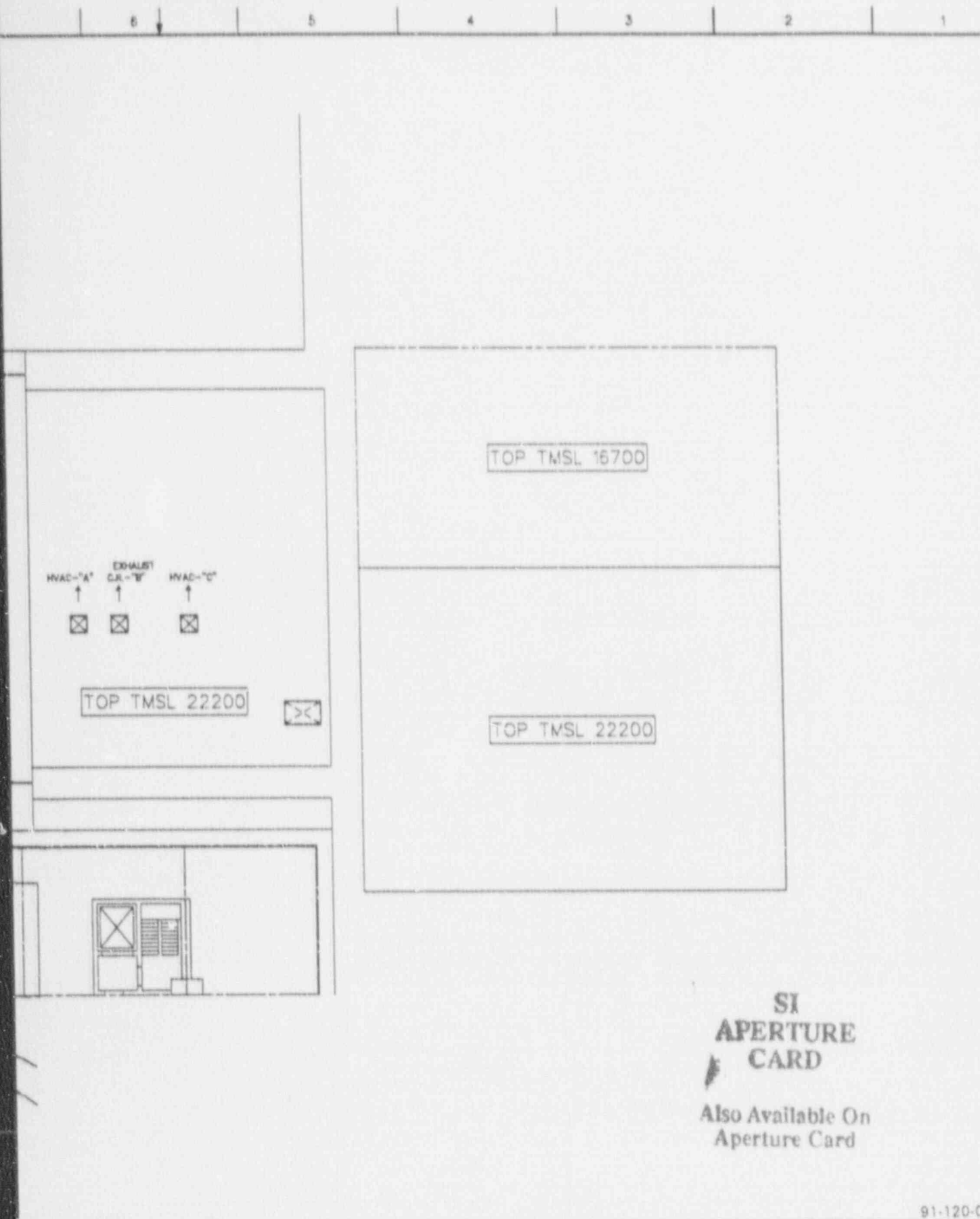
Figure 1.2-21 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL 17150mm

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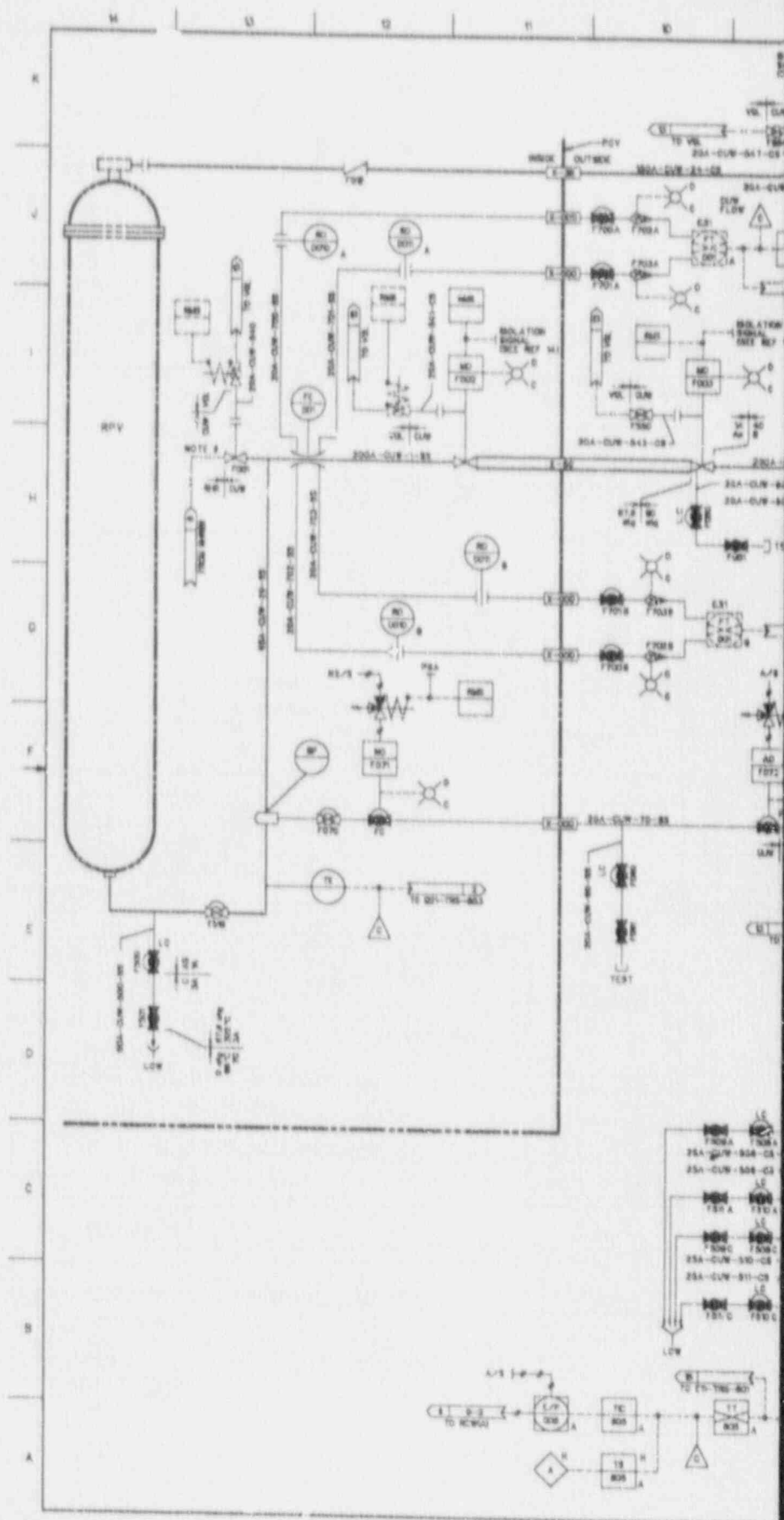
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Figure 1.2-22 CONTROL AND SERVICE BUILDING, ARRANGEMENT  
PLAN AT ELEVATION TMSL 22200mm

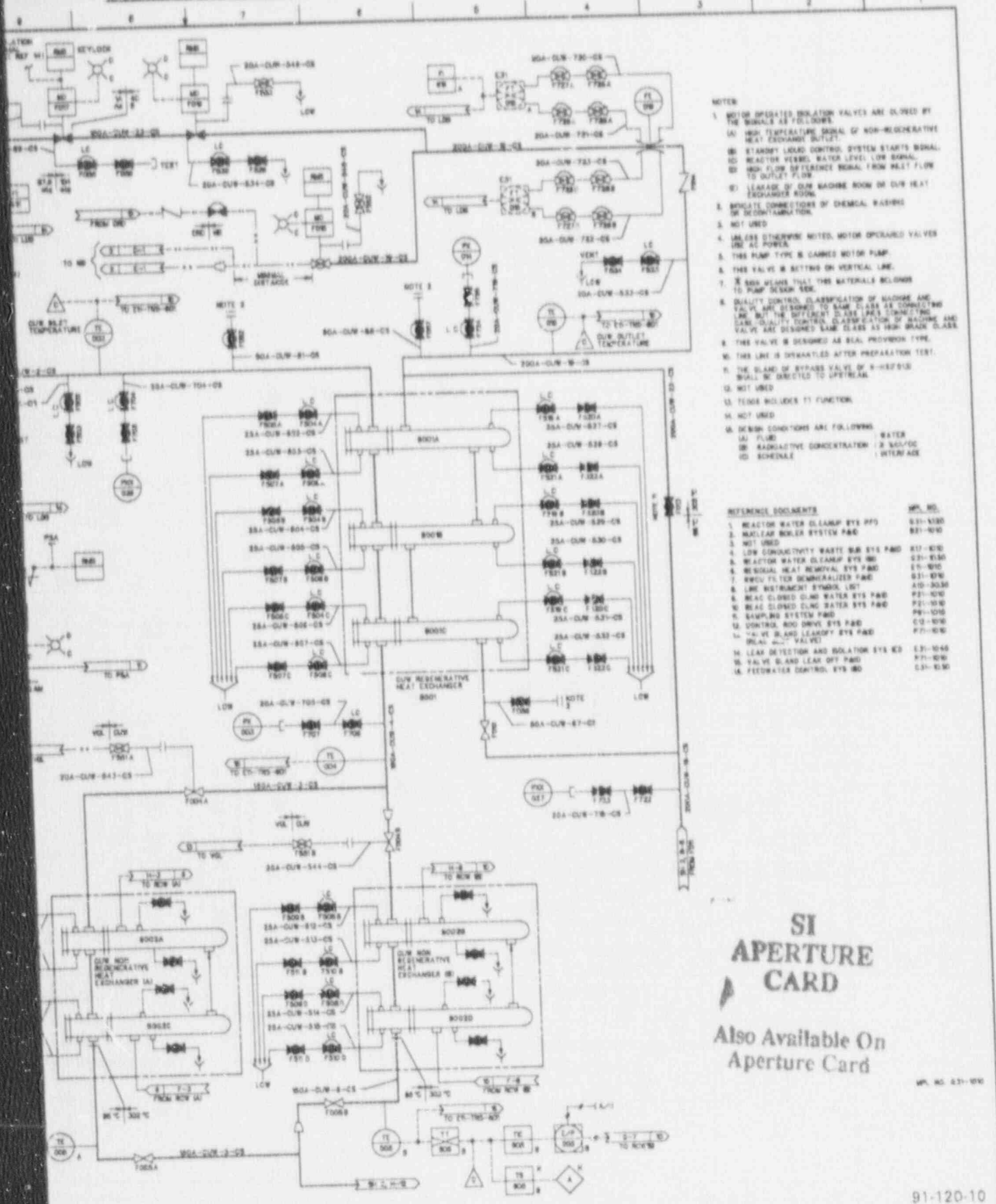






# ABWR Standard Plant

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- NOTES
1. MOTOR OPERATED ISOLATION VALVES ARE CLOSED BY THE SIGNALS AS FOLLOWS:
    - (A) HIGH TEMPERATURE SIGNAL OF NON-REGENERATIVE HEAT EXCHANGER OUTLET.
    - (B) STANDBY LIQUID CONTROL SYSTEM STARTS SIGNAL.
    - (C) REACTOR VESSEL WATER LEVEL LOW SIGNAL.
    - (D) HIGH FLOW DIFFERENCE SIGNAL FROM REACTOR TO OUTLET FLOW.
    - (E) LEAKAGE OF CUV MACHINE ROOM OR CUV HEAT EXCHANGER ROOM.
  2. SIGNAL CONNECTIONS OF CHEMICAL WASTING OR DECONTAMINATION.
  3. NOT USED.
  4. UNLESS OTHERWISE NOTED, MOTOR OPERATED VALVES USE AC POWER.
  5. THIS PUMP TYPE IS CARRIED MOTOR PUMP.
  6. THIS VALVE IS SETTING ON VERTICAL LINE.
  7. X SIGN MEANS THAT THIS MATERIALS BELONGS TO PUMP DESIGN SEE.
  8. QUALITY CONTROL CLASSIFICATION OF MACHINES AND VALVES ARE DESIGNED TO SAME CLASS AS CONNECTING LINE, BUT THE DIFFERENT CLASS LINES CONNECTING SAME QUALITY CONTROL CLASSIFICATION OF MACHINES AND VALVES ARE DESIGNED SAME CLASS AS HIGH GRADE CLASS.
  9. THIS VALVE IS DESIGNED AS SEAL PROVISION TYPE.
  10. THIS LINE IS DRYSTACKED AFTER PREPARATION TEST.
  11. THE SLAM OF BYPASS VALVE OF 8-HEAT EXCHANGER SHALL BE DIRECTED TO UPSTREAM.
  12. NOT USED.
  13. TEGS INCLUDES T1 FUNCTION.
  14. NOT USED.
  15. DESIGN CONDITIONS ARE FOLLOWING:
 

(A) FLOW	WATER
(B) RADIOACTIVE CONCENTRATION	2.5% / 100
(C) SCHEDULE	INTERFAC

REFERENCE DOCUMENTS	REF. NO.
1. REACTOR WATER CLEANUP SYS P&ID	231-1100
2. NUCLEAR BLOWER SYSTEM P&ID	231-1010
3. NOT USED	
4. LOW CONDUCTIVITY WASTE SYS P&ID	231-1010
5. REACTOR WATER CLEANUP SYS P&ID	231-1100
6. RESIDUAL HEAT REMOVAL SYS P&ID	231-1010
7. WROU FILTER DEMONSTRATOR P&ID	231-1010
8. LINE INSTRUMENT SYMBOL LIST	231-1010
9. REACTOR WATER CLEANUP SYS P&ID	231-1100
10. REACTOR WATER CLEANUP SYS P&ID	231-1100
11. SAMPLING SYSTEM P&ID	231-1010
12. CONTROL ROD DRIVE SYS P&ID	231-1010
13. VALVE BLAND LEAKOFF SYS P&ID	231-1010
14. LEAK DETECTION AND ISOLATION SYS P&ID	231-1010
15. VALVE BLAND LEAK OFF P&ID	231-1010
16. FEEDWATER CONTROL SYS P&ID	231-1010

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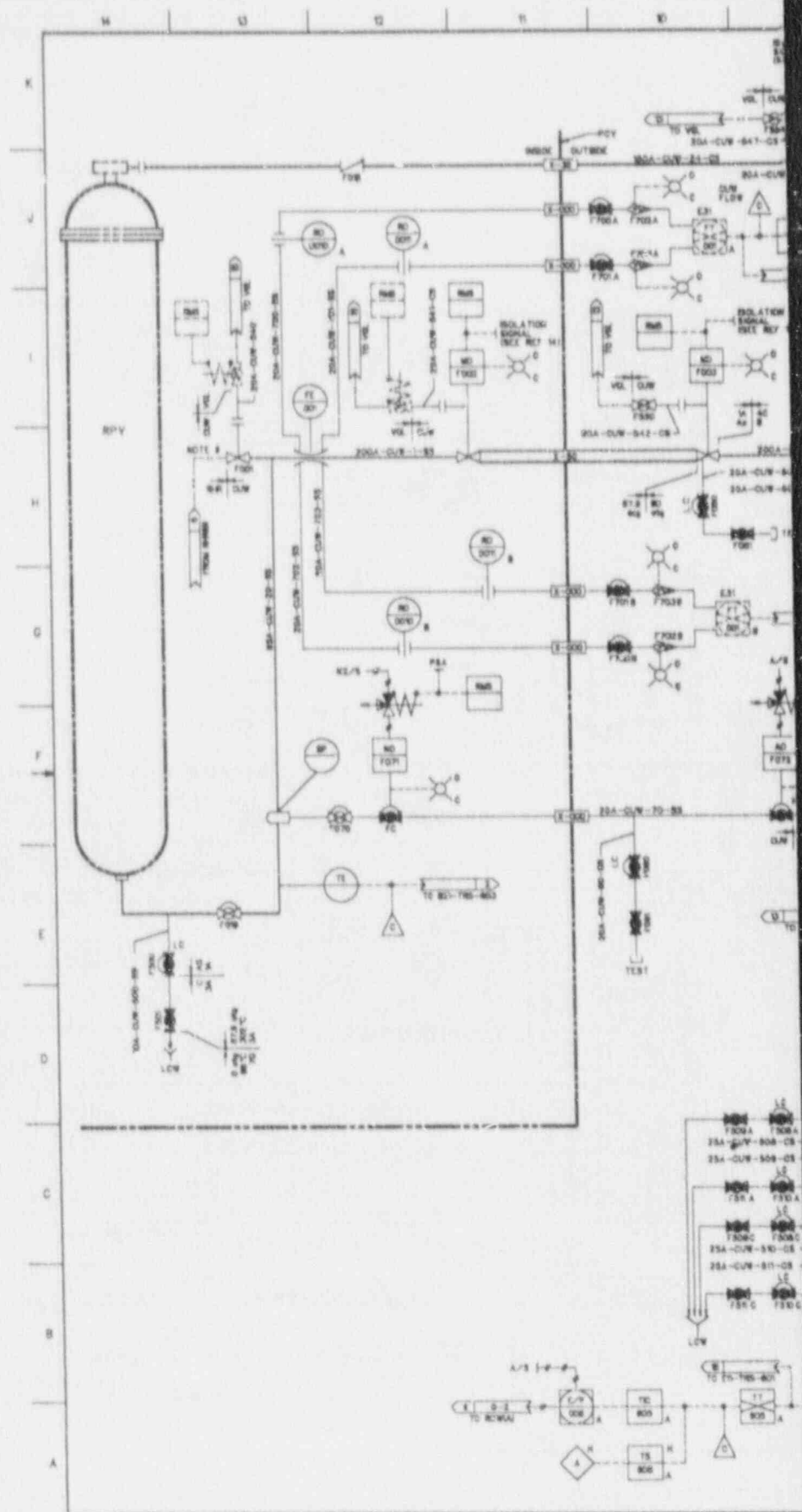
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Figure 5.4-12 REACTOR WATER CLEANUP SYSTEM P&ID, Sheet 1 of 3

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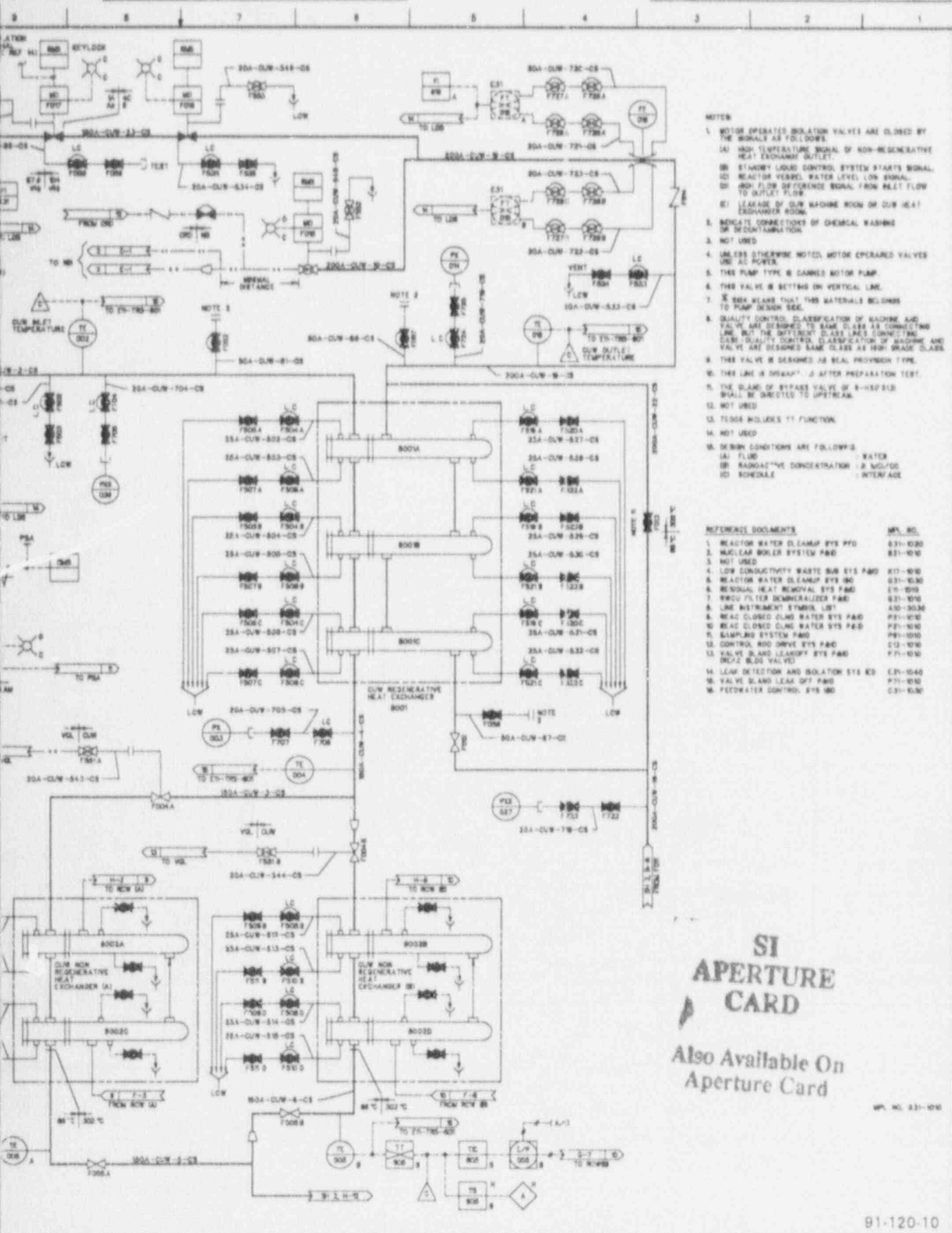
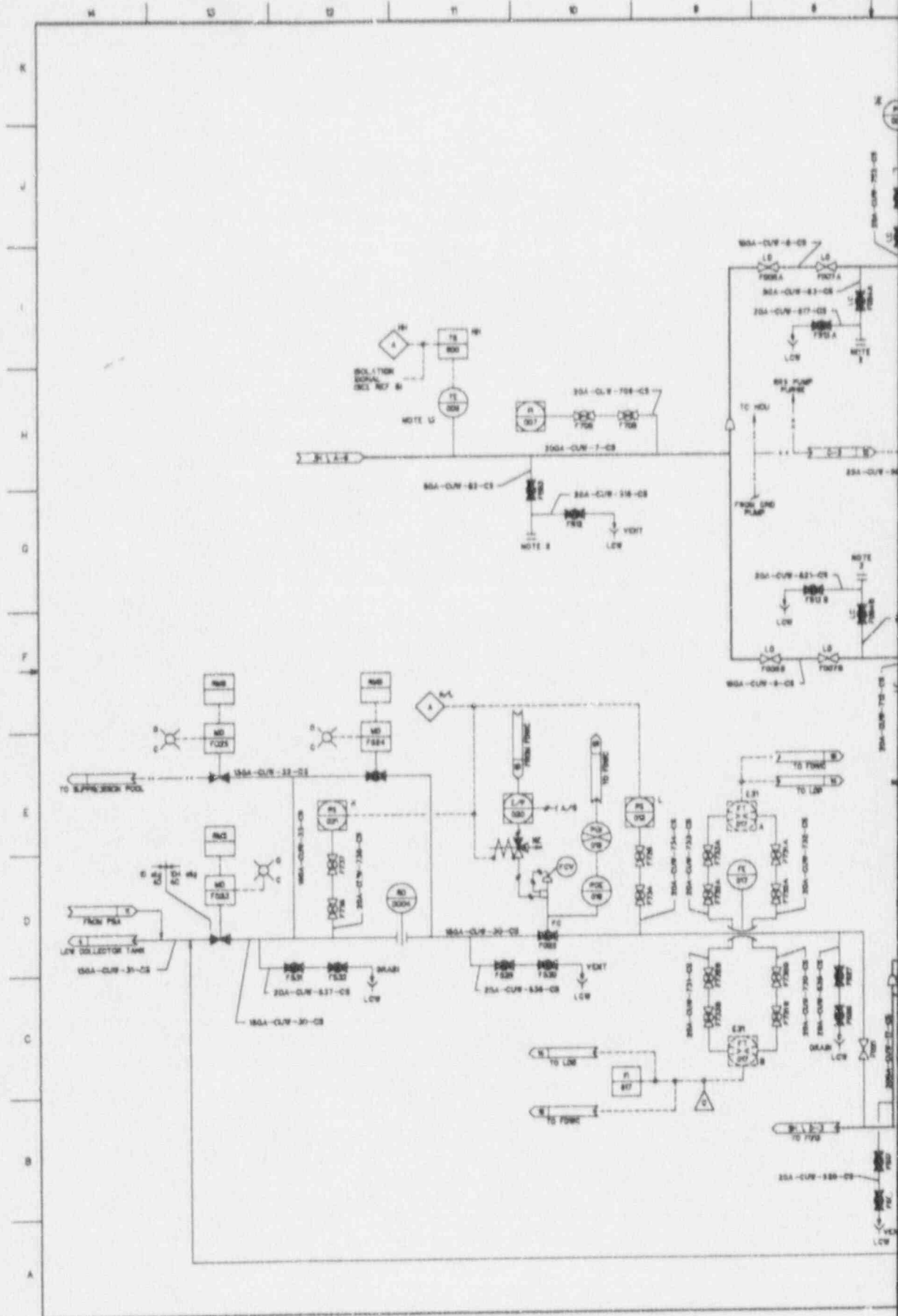
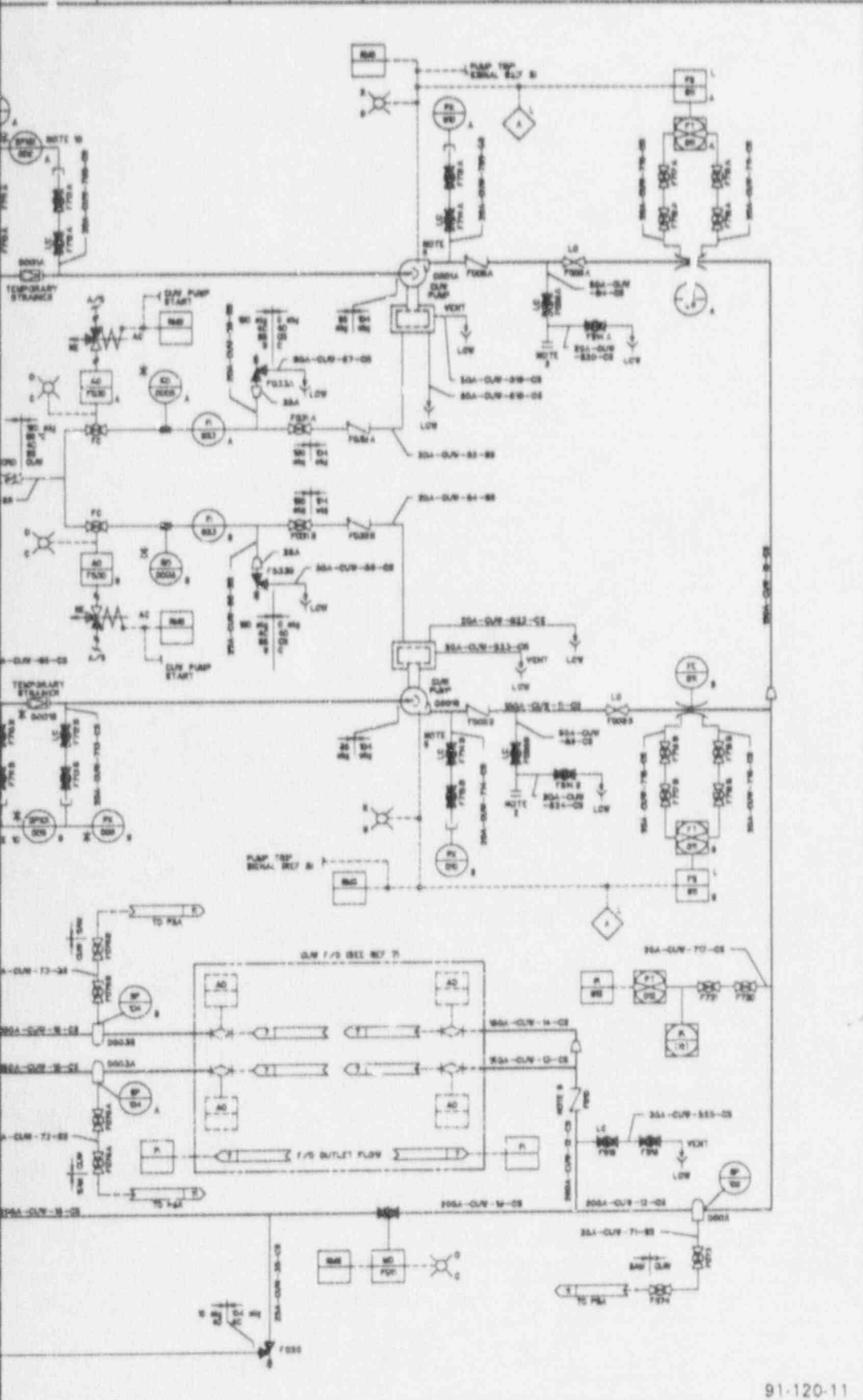


Figure 5.4-12 REACTOR WATER CLEANUP SYSTEM P&ID, Sheet 1 of 3

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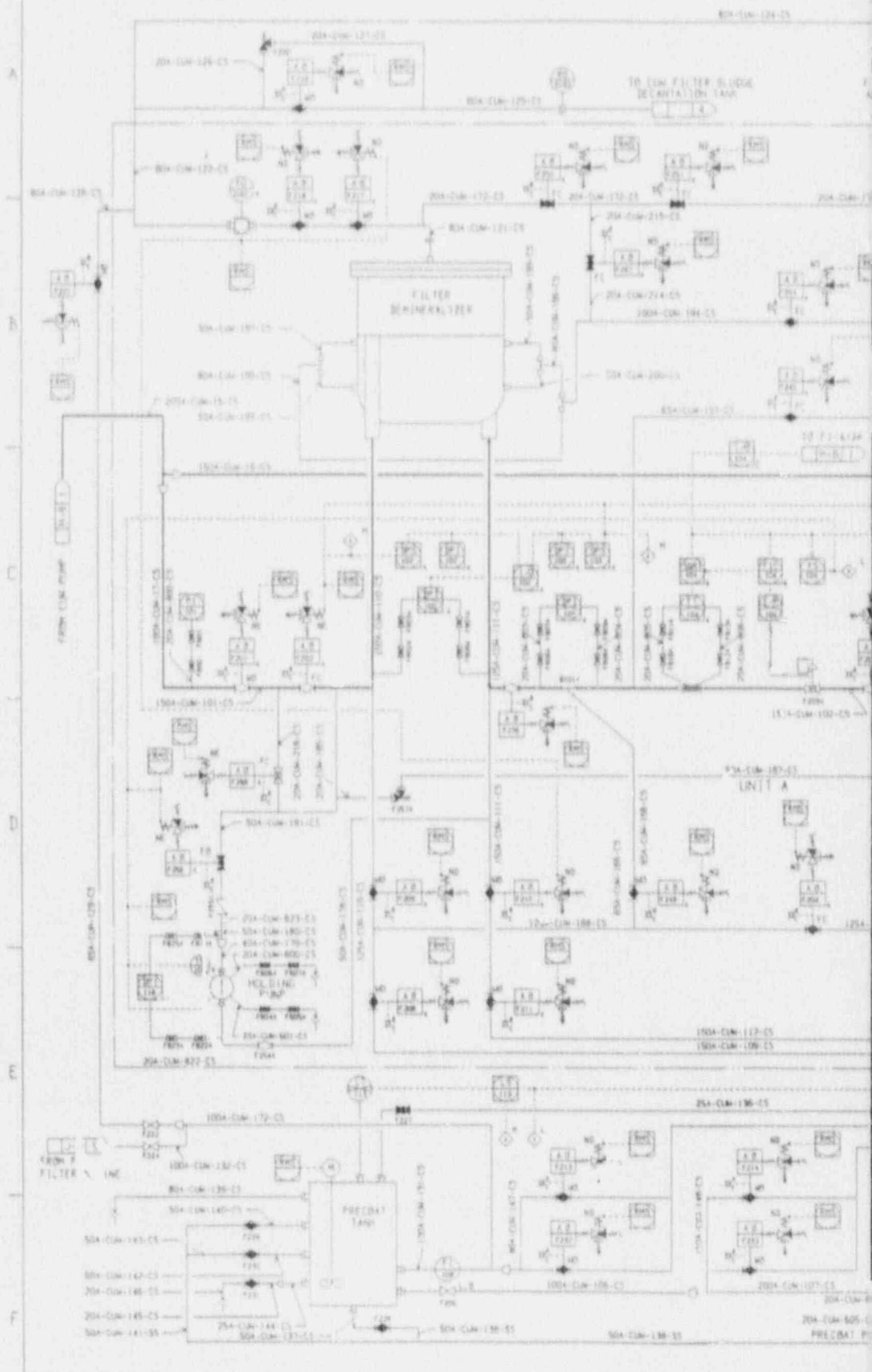


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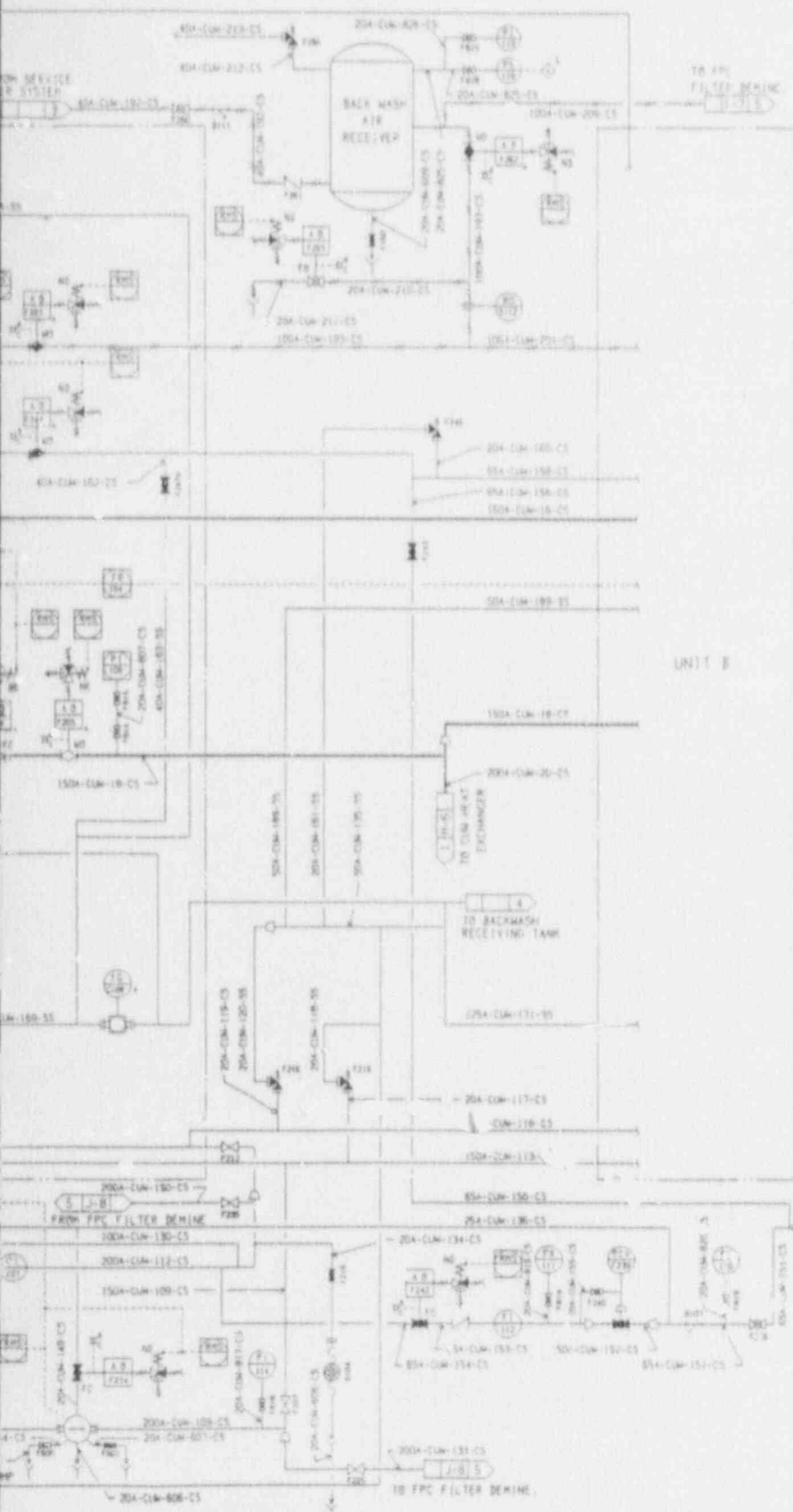
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SYSTEM No. G31  
SYSTEM ABBREVIATION CUM

NOTES (This page only)

1. FC (or FD) INDICATES AIR OPERATED VALVES FAIL CLOSE (or OPEN) ON LOSS OF AIR PRESSURE TO VALVE OPERATOR OR LOSS OF ELECTRIC POWER TO THE SOLENOID VALVES
2. ALL AIR OPERATED VALVES HAVE OPEN/CLOSED INDICATION LIGHTS LOCATED IN VICINITY OF VALVE CONTROL SWITCH. ALL OPERATED VALVES SHALL HAVE LIMIT SWITCH AND SOLENOID VALVES.
3. NO VALVES OR INSTRUMENTS TO BE LOCATED IN THE SHIELDED COMPARTMENT CONTAINING THE FILTER DEMINERALIZER.
4. UNLESS OTHERWISE NOTED, ALL VALVE CONTROL SWITCHES, INDICATION LIGHTS AND ALARMS SHOULD BE INSTALLED IN LOCAL CONTROL PANEL.
5. A COMMON TROUBLE ALARM FROM LOCAL ANNUNCIATORS 1 & 2 ALARM IN THE MAIN CONTROL ROOM.
6. V - INDICATES AIR OPERATED VALVES FAIL AS IS ON LOSS OF AIR PRESSURE TO VALVE OPERATOR AND FAIL CLOSE ON LOSS OF ELECTRIC POWER TO THE SOLENOID VALVE.

REFERENCE DOCUMENTS

- |   |          |
|---|----------|
| 1. REACTOR WATER CLEANUP SYSTEM P&ID (SHEETS 1 & 2)       | G31-1010 |
| 2. MAKEUP WATER CONDENSATE SYSTEM P&ID (REACTOR BUILDING) | F13-1010 |
| 3. SERVICE AIR SYSTEM P&ID (REACTOR BUILDING)             | P51-1010 |
| 4. RADIOACTIVE WASTE P&ID (LIQUID, SOLID)                 | E17-1010 |
| 5. FUEL POOL COOLING AND CLEANUP SYSTEM P&ID              | G41-1010 |

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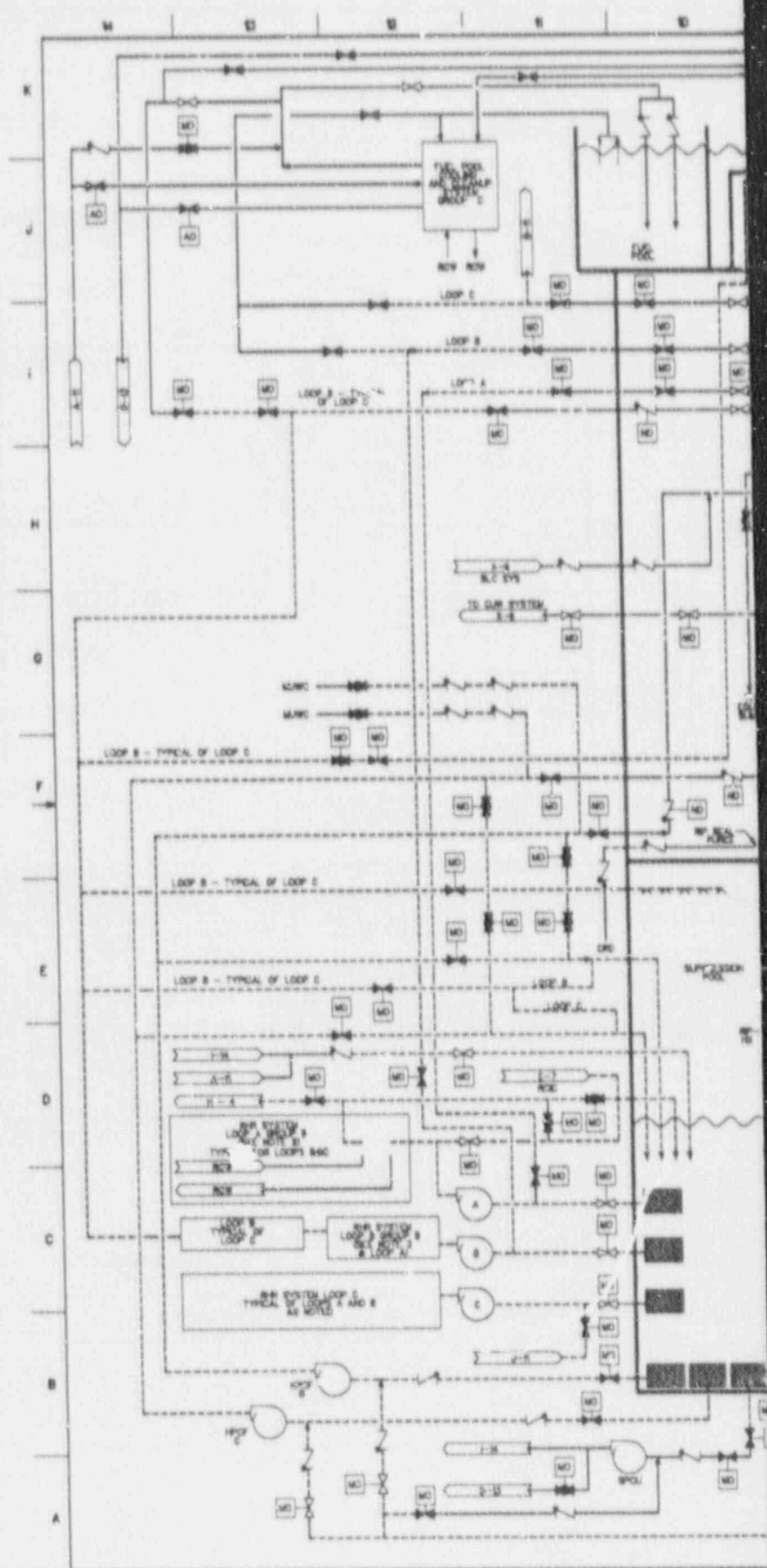
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Figure 5.4-12 REACTOR WATER CLEANUP SYSTEM P&ID, Sheet 3 of 3

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23A6100AB  
REV. C

## NOTES:

1. A SEPARATE LINE IS TO BE PROVIDED FOR EACH SAFETY/RELIEF VALVE.
2. RESIDUAL HEAT REMOVAL SYSTEM LOOPS (SUBSYSTEMS) A AND B ONLY ARE REPRESENTED AS TYPICAL LOOPS. LOOP C IS SIMILAR TO LOOP B.
3. RDC INJECTION VIA FEEDWATER SYSTEM B.
4. TABLE 3.2-1 "CONTROLLING FOR GROUP CLASSIFICATION AND CONTAINMENT ISOLATION" REQUIREMENTS. THE PRESSURE INTEGRITY OF NUCLEAR COMPONENTS. CLASSIFICATION (MPL No. AT-3010) DESCRIBES REQUIREMENTS FOR EACH GROUP. CLASSIFICATION INDIVIDUAL SYSTEMS AND SPECIFY SYSTEM AND COMPONENT REQUIREMENTS.
5. GROUP CLASSIFICATION CHANGES AT VALVE UNLESS OTHERWISE STATED. VALVES SHALL COMPLY TO HIGHEST CLASSIFICATION. IN-LINE PUMPS SHALL HAVE LINE GROUP CLASSIFICATION.
6. REACTOR WATER "CLEANUP" SYSTEM

THE FILTER-DEMINEALIZER PRECOAT/BACKWASH PORTION OF THE CFW DOWNSTREAM THE HIGH PRESSURE SLOTTED VALVES SHALL BE GROUP D.

## 7. CONTROL ROD DRIVE-HYDRAULIC CONTROL UNIT

THE PORTION OF THE CRD SYSTEM WHICH IS RELATED TO THE SCRAM FUNCTION IS GROUP B. THE PORTION OF THE CRD SYSTEM WHICH IS NOT RELATED TO THE SCRAM FUNCTION IS GROUP D.

## 8. MAIN STEAM LINE/TURBINE BYPASS LINE/BRANCH LINES

- A. THE MAIN STEAM LINE INSPECTION RECORDS PERTAINING TO THE LINES BETWEEN THE SHUT-OFF VALVE AND TURBINE STOP VALVE SHALL BE MAINTAINED FOR THE LIFE OF THE PLANT. THESE RECORDS SHALL INCLUDE DATA PERTAINING TO QUALIFICATION OF INSPECTION PERSONNEL, EXAMINATION PROCEDURES, AND EXAMINATION RESULTS.
- B. THE MAIN STEAM LINES AND IN-LINE COMPONENTS UP TO THE TURBINE STOP VALVES SHALL BE GROUP B. BEYOND IS GROUP D.
- C. BRANCH LINES OF MSL BETWEEN THE EXTERNAL ISOLATION VALVE AND THE TURBINE STOP VALVE SHALL BE GROUP B OUT TO AND INCLUDING THE FIRST VALVE CAPABLE OF TIMELY ACTUATION.
- D. BRANCH LINES OF THE TURBINE BYPASS LINE UP TO THE BYPASS VALVE SHALL BE GROUP B OUT TO AND INCLUDING THE FIRST VALVE CAPABLE OF TIMELY ACTUATION.

## 9. FEEDWATER

BRANCH LINES OF THE FW LINE BETWEEN THE SECOND AND THIRD VALVE OUT TO AND INCLUDING THE FIRST REMOTE ACTUATED VALVE TO BE GROUP B.

## 10. CONDENSATE STORAGE TANK

THE CONDENSATE STORAGE TANK WILL BE DESIGNED, FABRICATED, AND TESTED TO MEET THE INTENT OF ASME STANDARD API 650. IN ADDITION, THE SPECIFICATIONS FROM THIS TANK WILL REQUIRE (1) 100 PERCENT SURFACE EXAMINATION OF THE SIDE WALL TO BOTTOM JOINT AND (2) 100 PERCENT VOLUMETRIC EXAMINATION OF THE SIDE WALL WELD JOINTS, GROUP D CLASSIFICATION.

## 11. PNEUMATIC PIPING, VESSELS & FITTINGS (FIG. 3.2)

PNEUMATIC SYSTEMS ASSOCIATED WITH ACTUATION OF SAFETY RELATED VALVES TO ACCOMPLISH SAFETY FUNCTIONS (E.G. MAIN STEAM SAFETY/RELIEF VALVES) ARE CLASSIFIED GROUP C. THIS CLASSIFICATION IS INTENDED TO APPLY TO COMPONENTS SUCH AS THE AIR PIPING, FITTINGS, AND ACCUMULATOR TANKS. THIS CLASSIFICATION DOES NOT APPLY TO COMPONENTS OF THE SYSTEM SUCH AS AIR CONTROL VALVES, AIR CHECK VALVES, AND CYLINDER (OR DIAPHRAM) AIR ACTUATORS. THESE COMPONENTS ARE CONSIDERED AS "SPECIAL EQUIPMENT" AND ARE SELECTED BASED ON ENGINEERING REVIEWS, OPERATING EXPERIENCE, AND TESTING AS BEING THE MOST SUITABLE FOR THE APPLICATION. SUCH EQUIPMENT IS REQUIRED TO BE QUALIFIED TO DEMONSTRATE OPERABILITY DURING NORMAL AND EMERGENCY AMBIENT CONDITIONS. COMPONENTS NORMALLY FURNISHED WITH THE PROCESS VALVE (E.G. AIR CONTROL VALVES, AIR ACTUATORS) ARE PERFORMANCE TESTED WITH THE VALVE AS PART OF ITS ACCEPTANCE TEST PROCEDURE.

## 12. INSTRUMENT, SAMPLE & OTHER SMALL LINES (FIG. 3.1)

### A. VALVE, ORFICE DATA

- I VALVES AUTOMATIC, REMOTE OPERABLE, OR EXCESS FLOW CHECK; AUTOMATIC OR MANUAL RESETTING, REMOTE POSITION INDICATION MINIMUM PRACTICAL SPACING FROM CONTAINMENT.
- II ORFICE/PPIPE SIZED TO LIMIT FLOW PER NRC REGULATORY GUIDE 1.11.
- III VALVE: LOCKED CLOSED, AUTOMATIC, OR III ABOVE.
- IV VALVE: SAME AS I IF III IS II; OR LOCKED CLOSED AUTOMATIC (NON-CHECK).
- V VALVE-PROCESS SHUT/OFF.
- VI 8.4mm (1/4") ORFICE; LOCATED AS CLOSE AS PRACTICAL TO THE PROCESS TO PERMIT OPTIMUM VENTING OF NON-CONDENSIBLES.

\* VALVES AND ORFICES IN THE LINES SHOULD NOT BE SO RESTRICTIVE AS TO DIMINISH THE SAFETY FUNCTION OF THE LINE.

### B. GROUP CLASSIFICATION OF SMALL DIAMETER LINES

PROCESS SYSTEM TO WHICH ALL LINES ARE CONNECTED- GROUP CLASSIFICATION	GROUP CLASSIFICATION OF LINES UP TO AND INCLUDING FIRST REMOTE OR ISOLATION VALVES		CLASSIFICATION OF LINE ROOT OR ISOLATION
	LINES OVER 25mm (1" NPS) WATER 50mm (2" NPS) STEAM	LINES 25mm (1" NPS) WATER 50mm (2" NPS) STEAM AND SMALLER	
A	A	B (1)	B
B	B	B	B
C	C (2)	C (2)	C
D	D (2)	D (2)	N/A

(1) GROUP CLASSIFICATION AND CODE REQUIREMENTS ARE BASED ON OUR NRC GUIDELINES. HOWEVER, EACH PROJECT SHALL VERIFY WITH STATE JURISDICTIONAL AUTHORITIES TO AVOID MISUNDERSTANDINGS AND POSSIBLE RETROFITS.

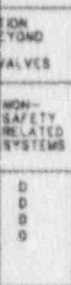
(2) SAFETY RELATED SYSTEMS ARE THOSE SYSTEMS WHOSE ACTIONS ARE ESSENTIAL TO BOTH OF THE FOLLOWING:

A. AVOIDING THE UNACCEPTABLE RESULTS FOR ABNORMAL OPERATIONAL TRANSIENTS, ACCIDENTS, AND SPECIAL EVENTS BY CONTRIBUTING TO THE ACCOMPLISHMENT OF ESSENTIAL SAFETY ACTIONS.

B. SATISFYING THE SINGLE FAILURE CRITERION (WHERE APPLICABLE).

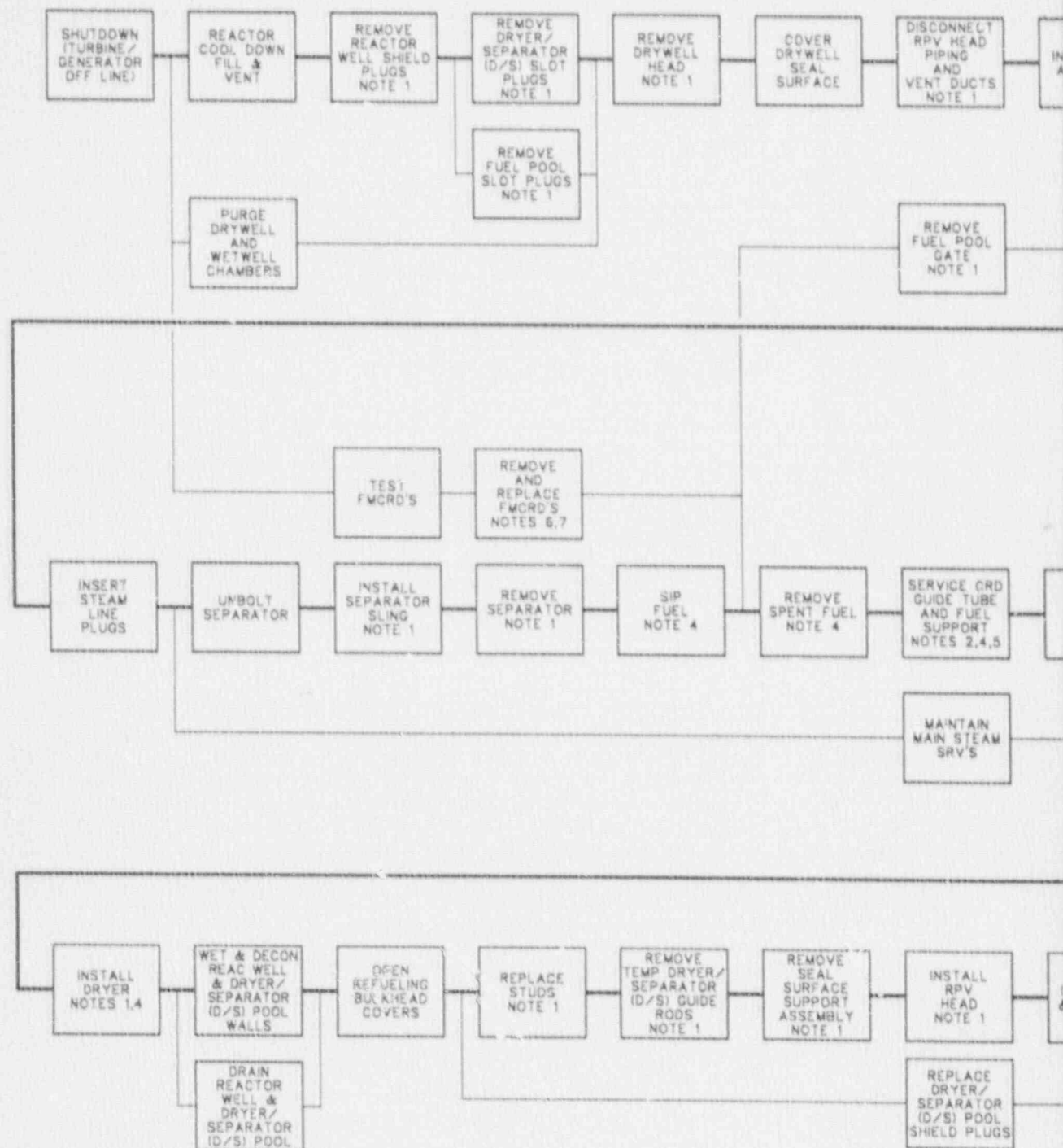
13. THE REACTOR COOLANT PRESSURE BOUNDARY INCLUDES THE REACTOR VESSEL AND CONNECTING PIPING, PUMPS AND VALVES AND EXTENDS TO AND INCLUDING THE OUTERMOST PRIMARY CONTAINMENT ISOLATION VALVE(S) OF THE SYSTEM OR COMPONENT INDICATED.

14. THE CONTAINMENT IS DESIGNED AND CONSTRUCTED TO THE REQUIREMENTS OF THE ASME CODE FOR REINFORCED CONCRETE CONTAINMENT. COMPONENTS WHICH FORM AN EXTENSION OF CONTAINMENT ARE DEFINED AS PRESSURE-RETAINING COMPONENTS, PARTS, MATERIALS OR APPURTENANCES IN THE PORTION OF THE SYSTEM WHICH EXTENDS FROM THE CONTAINMENT TO AND INCLUDING THE OUTERMOST ISOLATION VALVE LOCATED OUTSIDE OF THE CONTAINMENT WHICH IS CAPABLE OF AUTOMATIC ACTUATION GROUP B.



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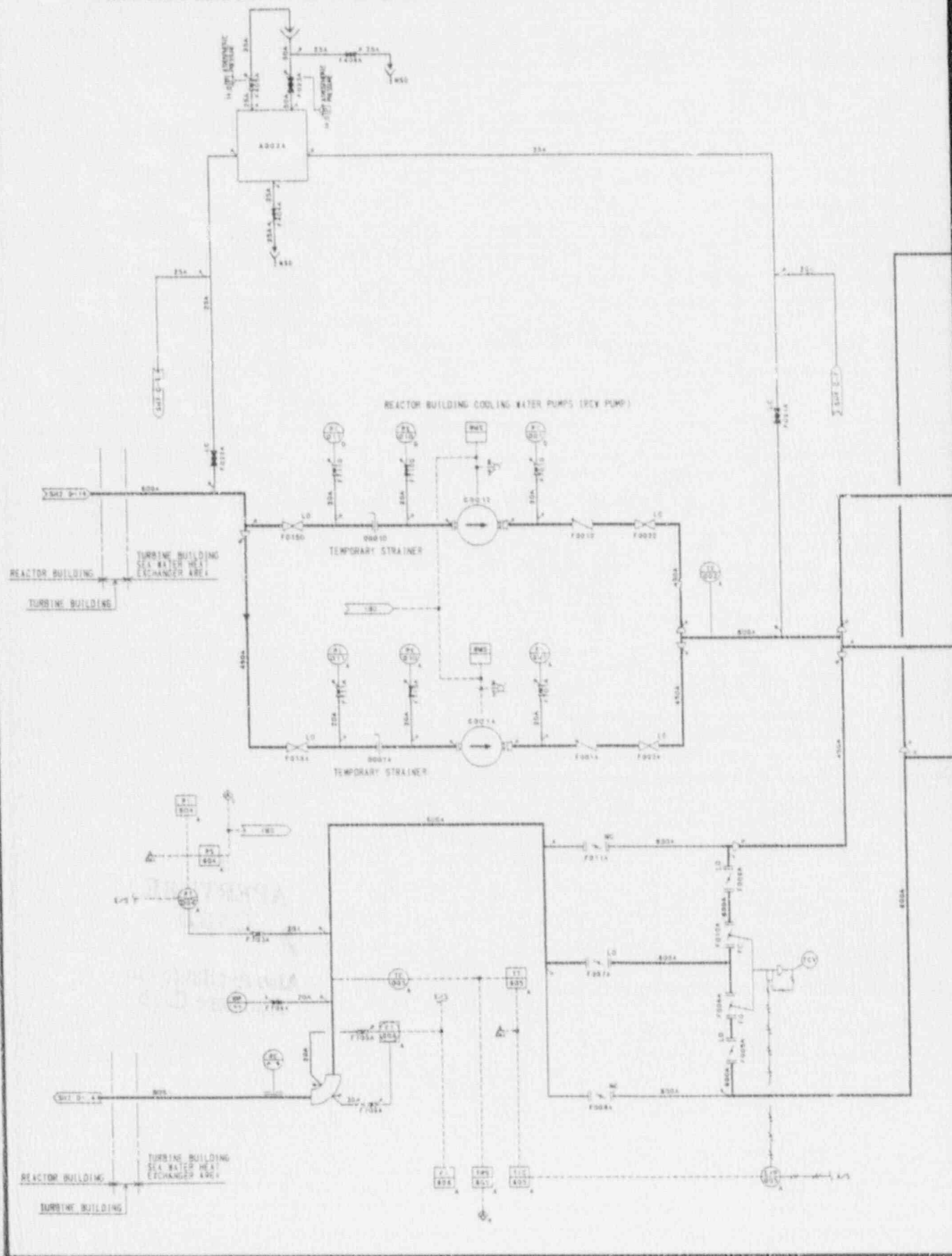


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# REACTOR BUILDING COOLING WATER SYSTEM CHEMICAL ADDITION TANK (A)



SYSTEM NO. P21  
(RCW-A)

NOTES

1. DESIGN SPECIFICATION  
THE FOLLOWING DESIGN SPECIFICATIONS ARE  
APPLIED UNLESS OTHERWISE NOTICED

ITEM	APPLICATION
SYSTEM	RCW
DESIGN PRESSURE (LBS/IN <sup>2</sup> )	14.0
DESIGN TEMPERATURE (°F)	250/250
MATERIAL	304 SS
OPERATING TEMPERATURE (°F)	250/250
PIPE MATERIAL	CARBON STEEL
PIPE WALL THICKNESS	1/2" AND 1/4"
FLUID	DEMINERALIZED WATER
DESIGN CLASS	CLASS 1
DRAIN / VENT	SEE DETAIL

2. SYMBOL EXPLANATION

180	REFER TO 180
*	SUPPLY BY EQUIPMENT
RE	REDESIGNATION BY THE OTHER SYSTEM
DC	DESIGN CHANGE POINT

3. REFERENCE DOCUMENTS

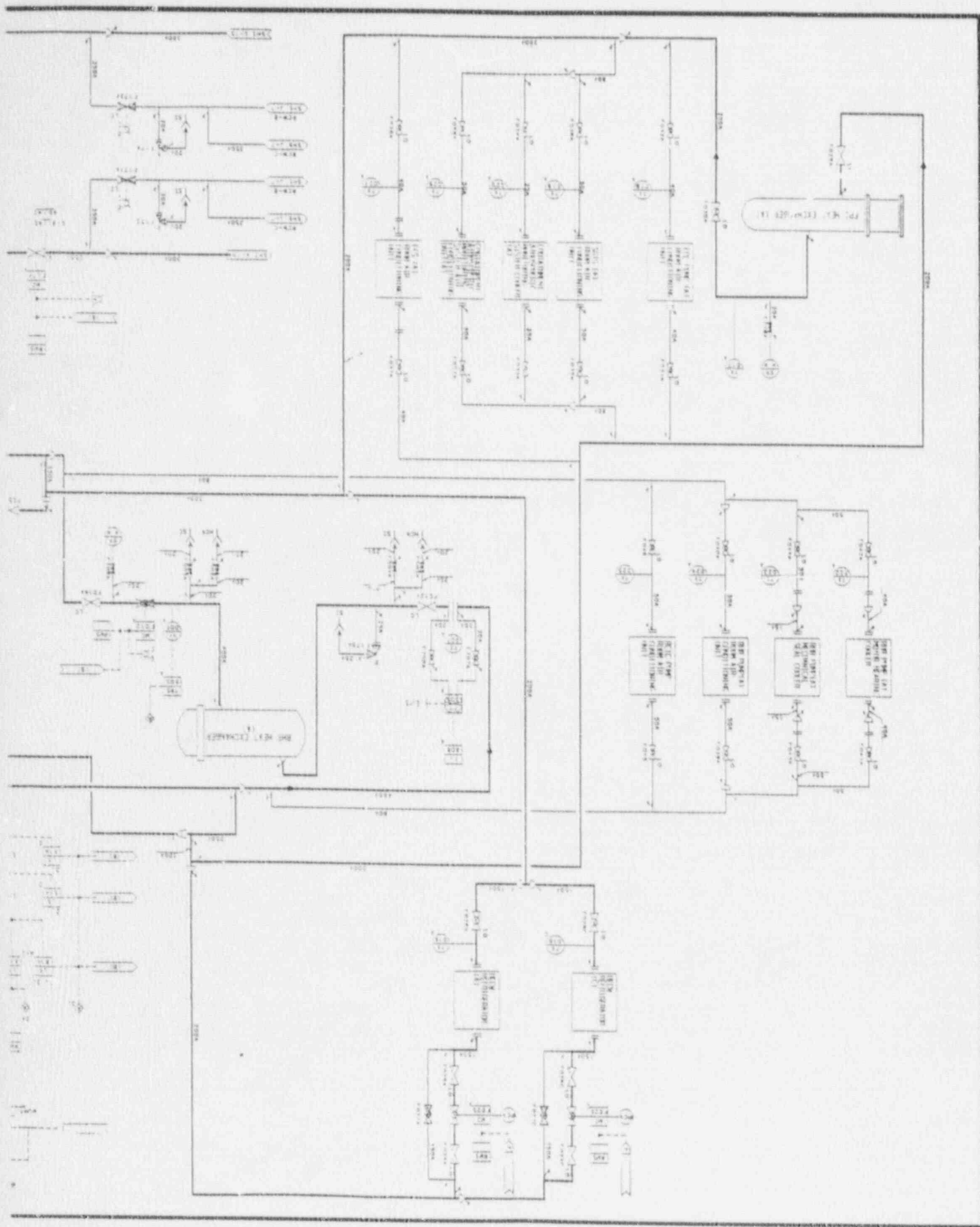
REF ID	ITEM NO.	WPL REF NO.
1. PIPING & INSTRUMENTS SYMBOLS & M.U.	---	---
2. PURIFIED WATER MAKEUP SYS. PAID	---	---
3. HVAC NORMAL COOLING WATER SYS. PAID	3.147	P21-110
4. REACTOR SEA WATER SYS. PAID	3.154	P21-107L
5. EMERGENCY DIESEL GENERATOR COOLING WATER SYS. PAID	---	---
6. PROCESS SAMPLING SYS. PAID	---	---
7. HVAC EMERGENCY COOLING WATER SYS. PAID	3.142	P25-1010
8. REACTOR WATER CLEANUP SYS. PAID	3.91	Q31-1010
9. HOT WATER HEATING SYS. PAID	---	---
10. OFF-GAS SYS. PAID	3.123	E63-1010
11. RESIDUAL HEAT REMOVAL SYS. PAID	3.51	E11-1010
12. INSTRUMENT AIR SYS. PAID	---	---
13. REACTOR RECIRCULATION SYS. PAID	3.201	E11-1010
14. LEAK DETECTION SYS. LEU	---	---
15. REACTOR BUILDING COOLING WATER PUMP PAID	---	---
16. TURBINE BUILDING COOLING WATER SYS. PAID	---	---

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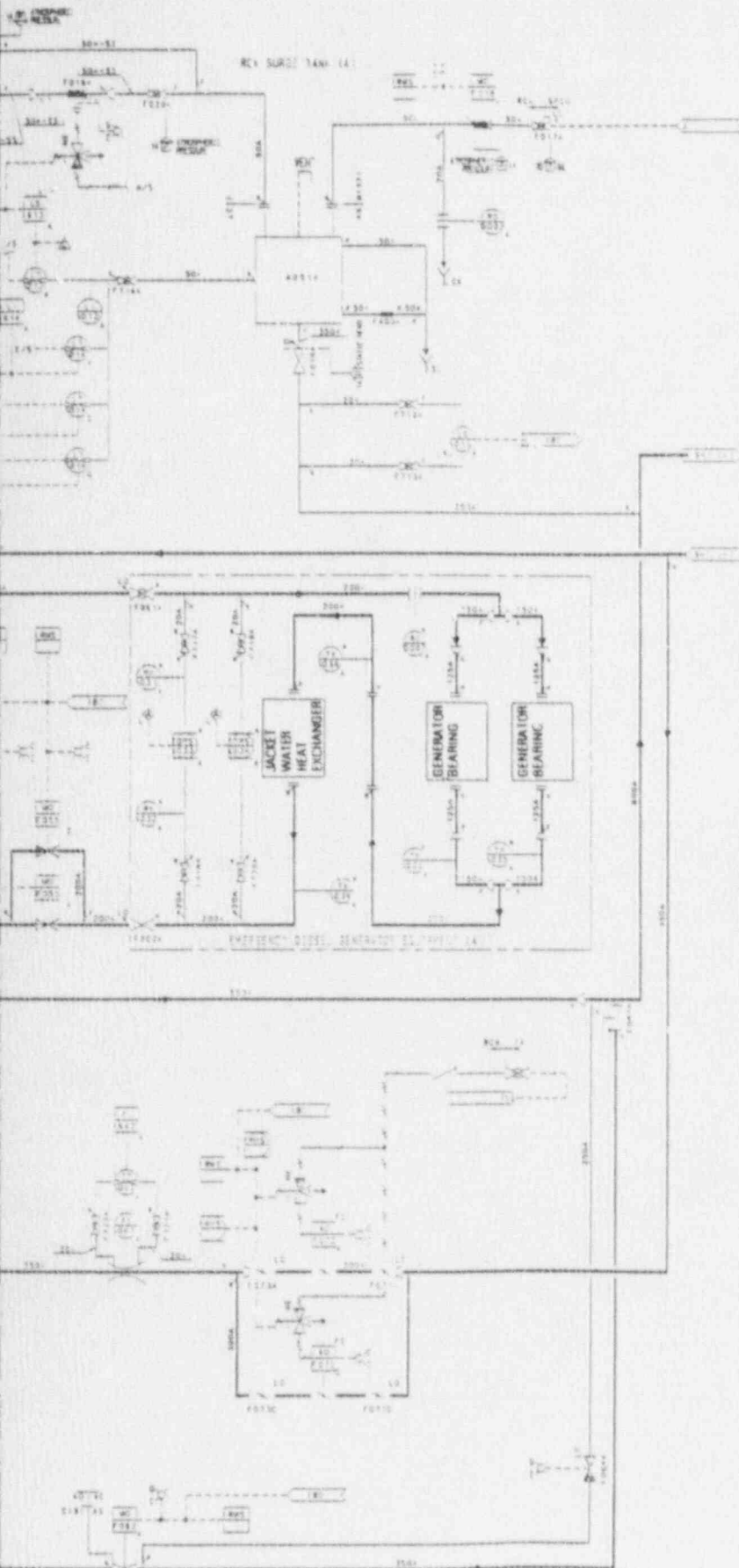
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Figure 9.2-1a REACTOR BUILDING COOLING WATER SYSTEM P&ID - SHEET 1





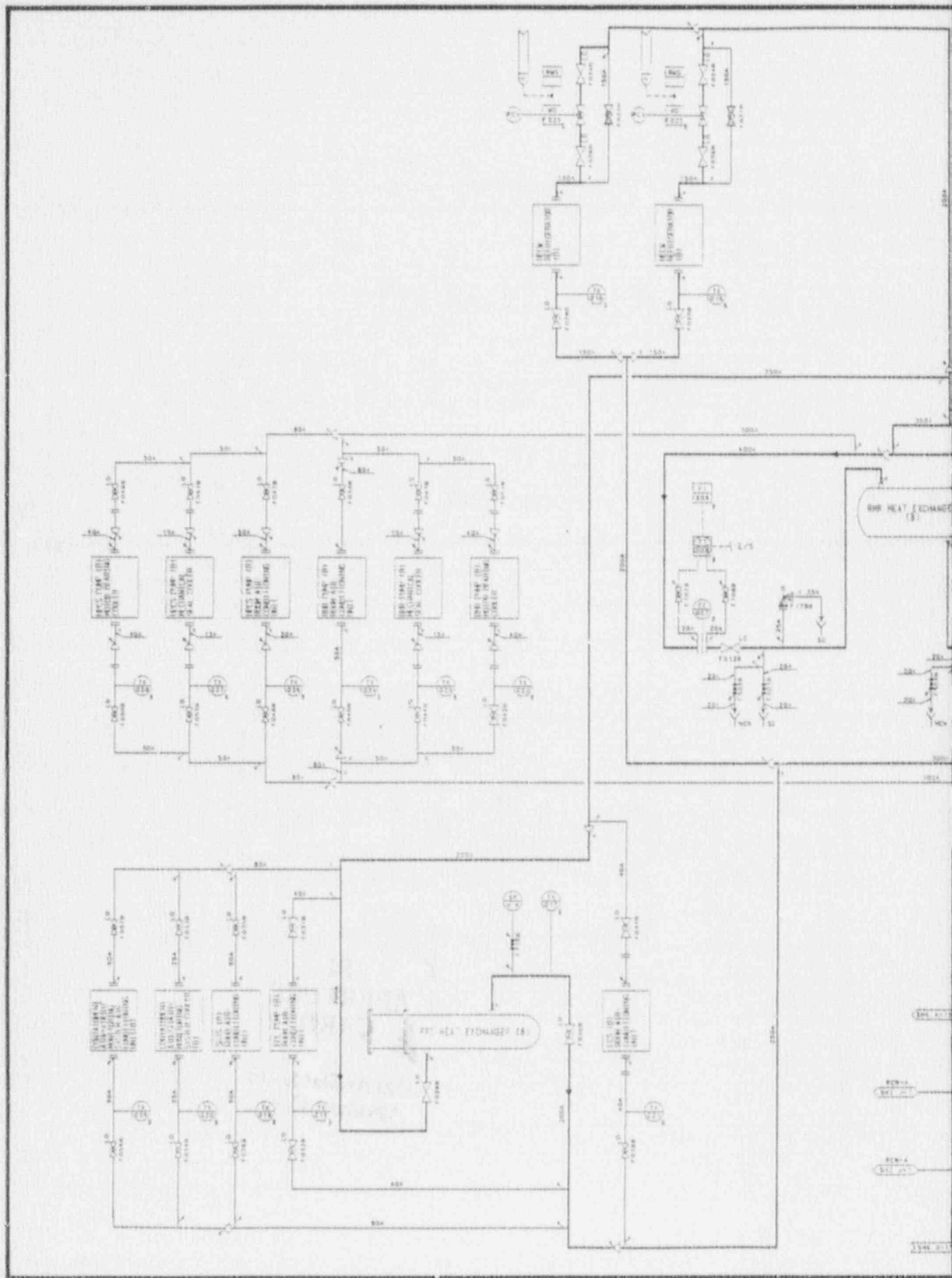


SYSTEM NO. P23  
(RCW-A)

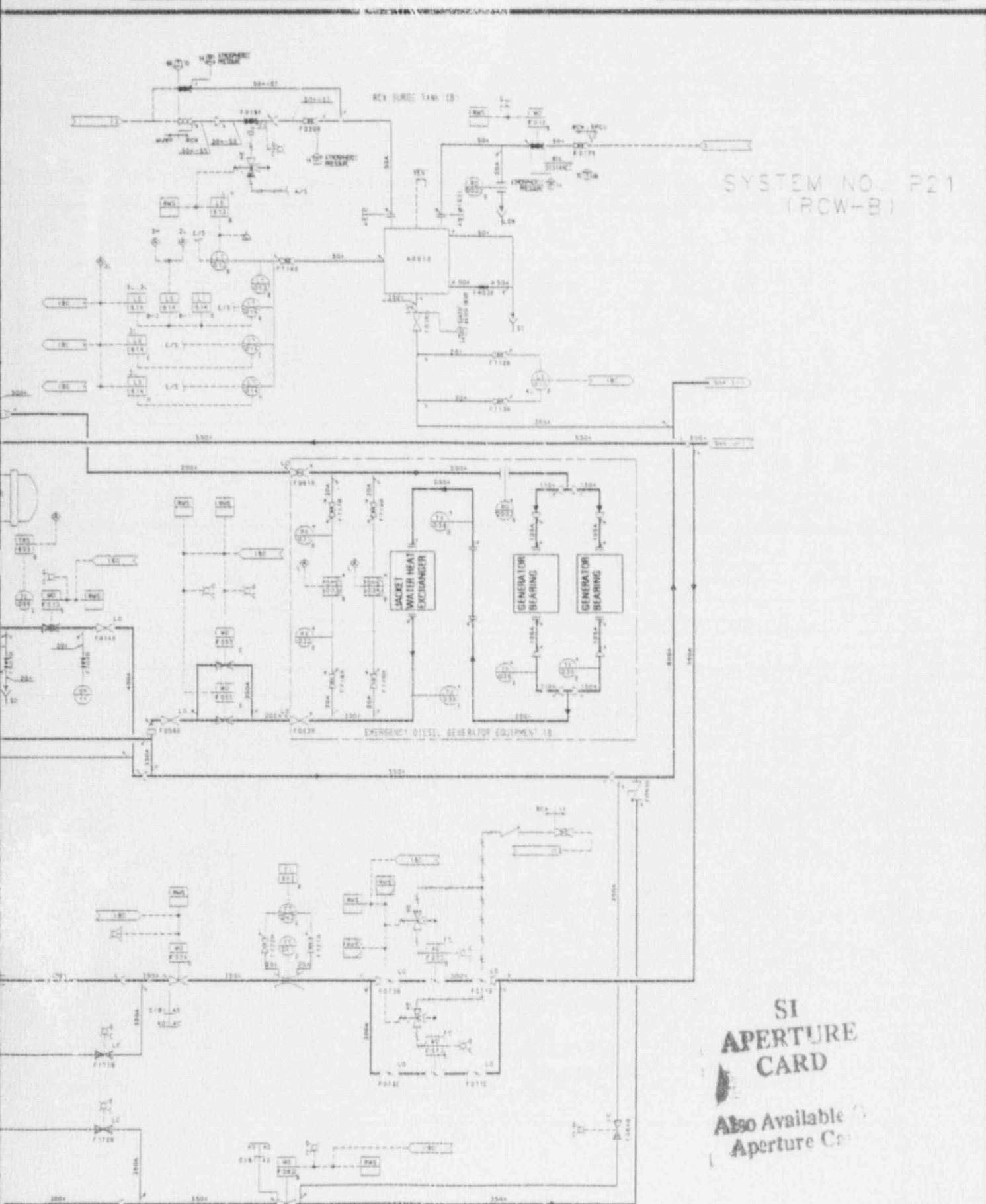
NOTES:

PIPING AND VALVE NUMBER TABLE

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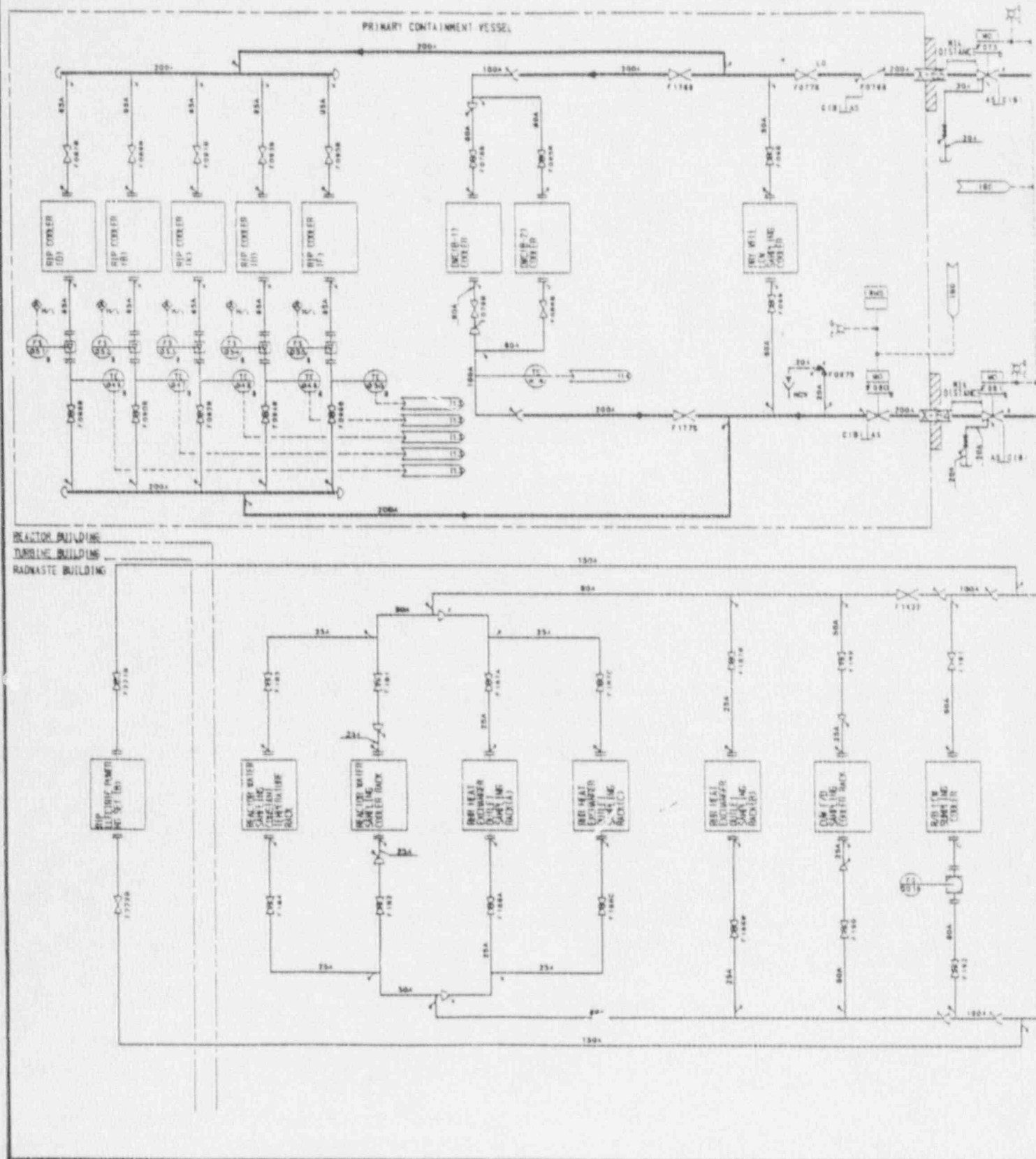


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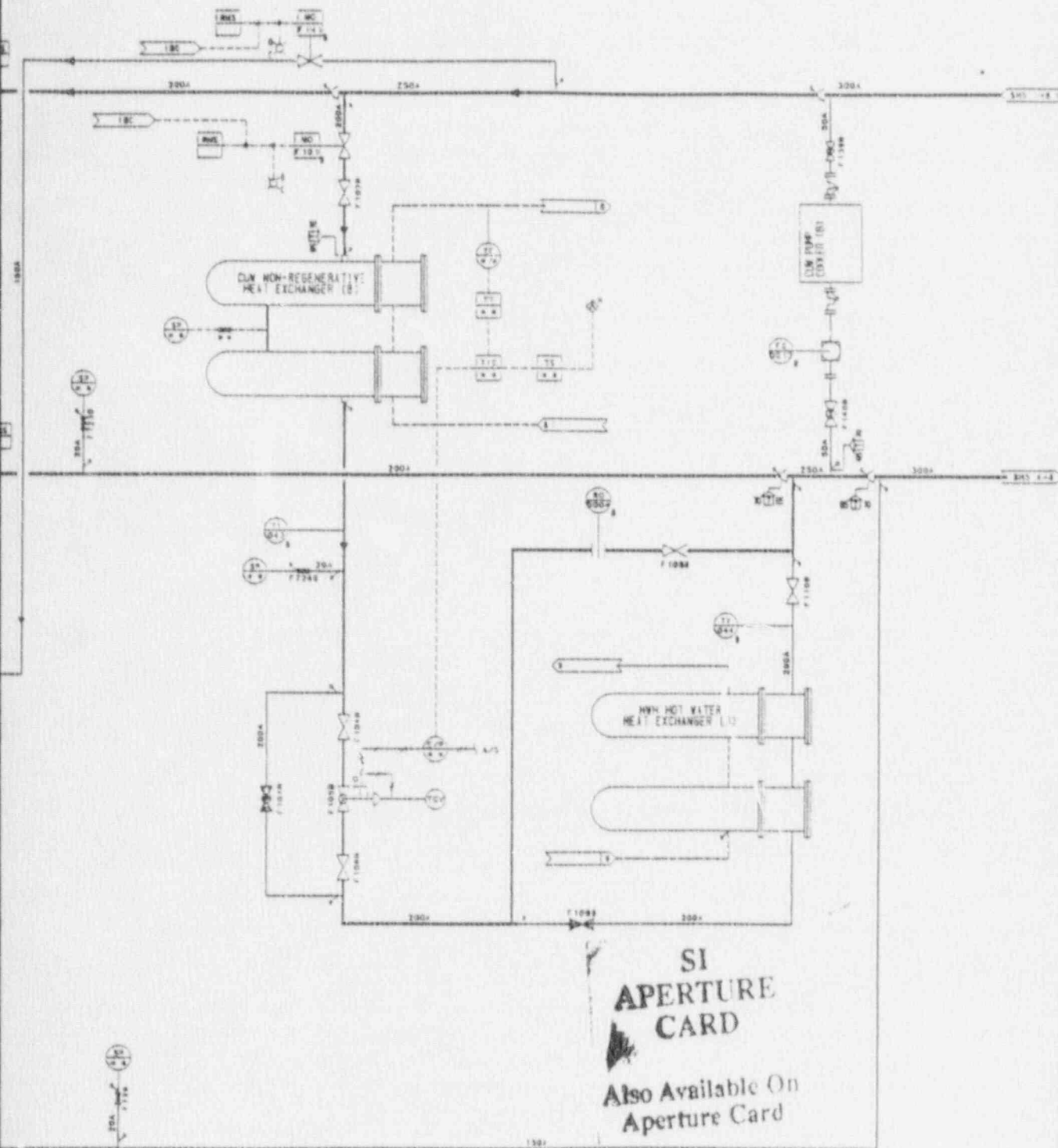
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Figure 9.2-1e REACTOR BUILDING COOLING WATER SYSTEM P&ID - SHEET 5

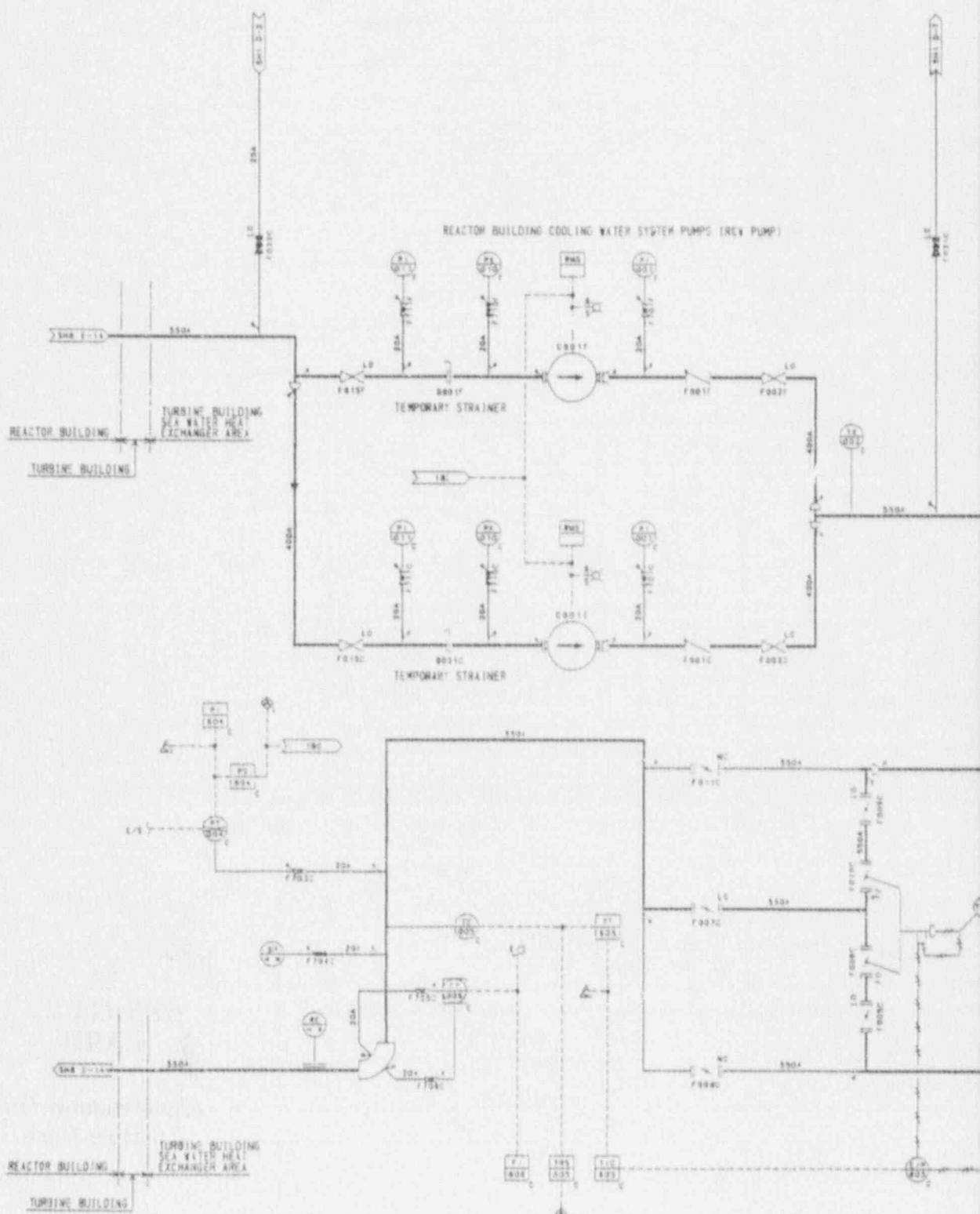


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(RCW-E)

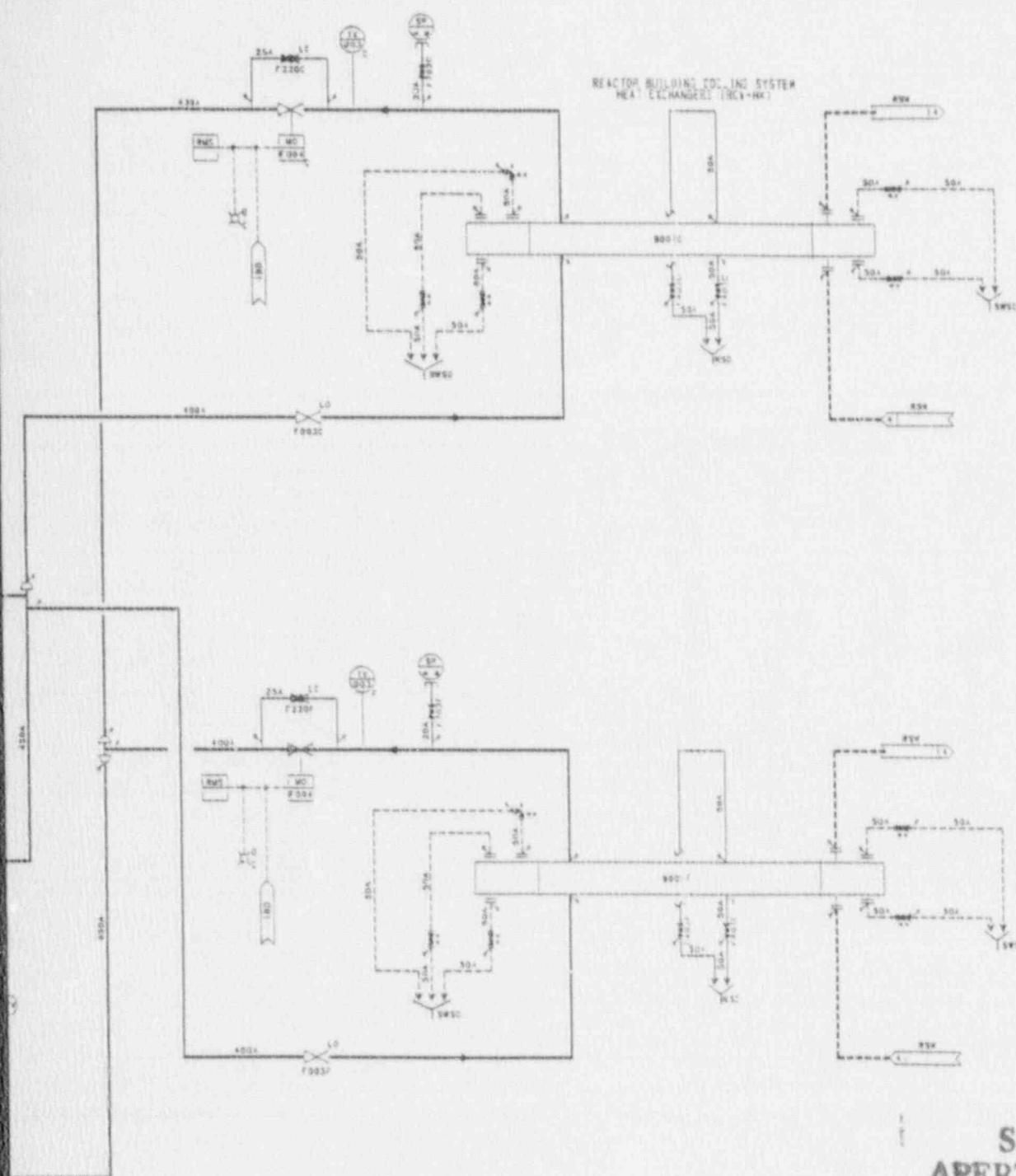


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Figure 9.2-1f REACTOR BUILDING COOLING WATER SYSTEM P&ID - SHEET 6



SYSTEM NO. P21  
(RCW-C)



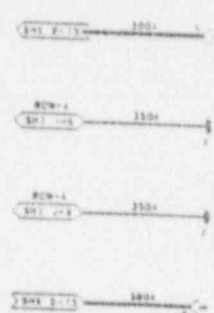
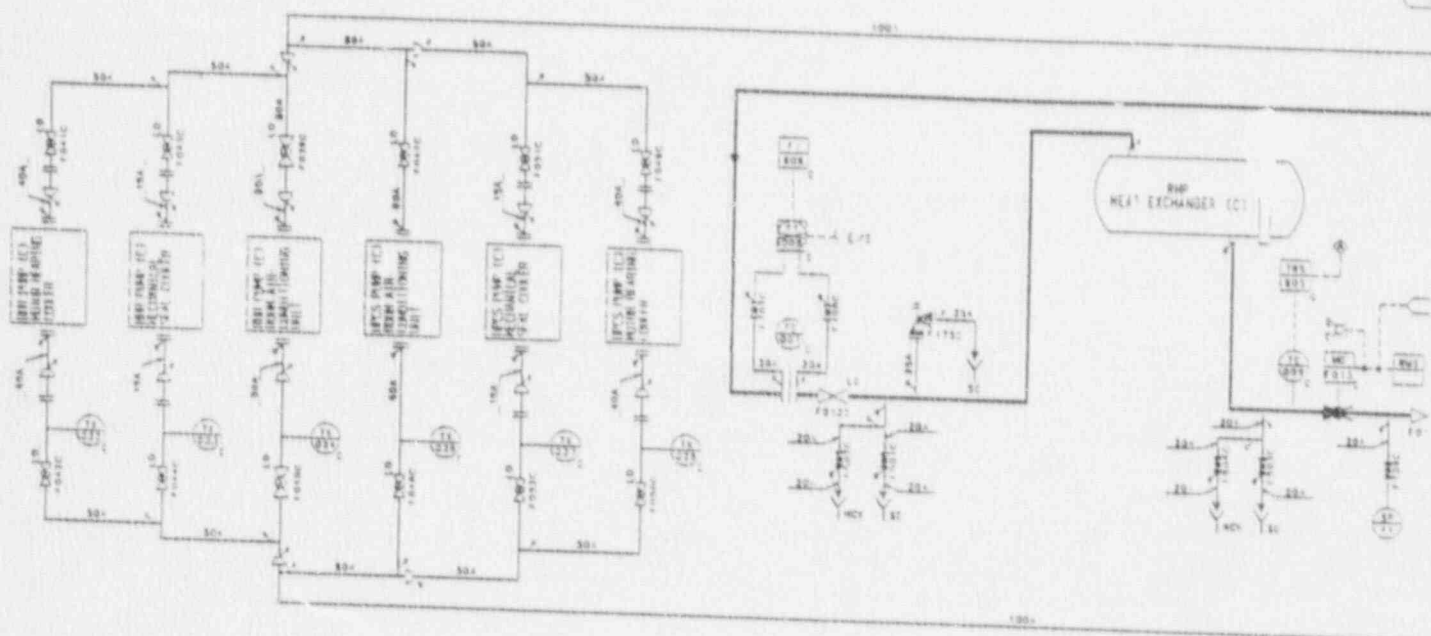
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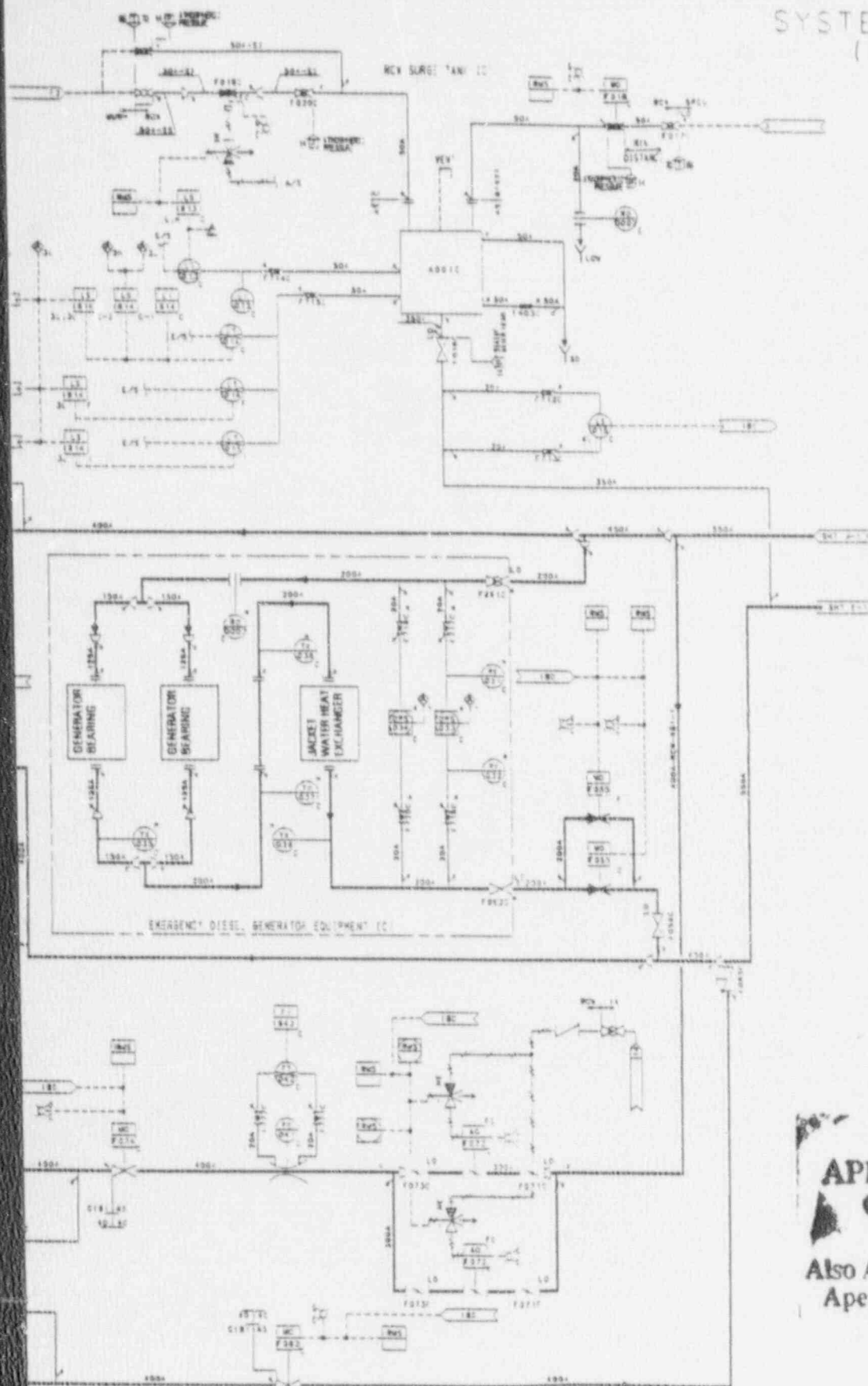
Figure 9.2-1g REACTOR BUILDING COOLING WATER SYSTEM P&ID - SHEET 7







SYSTEM NO. P21  
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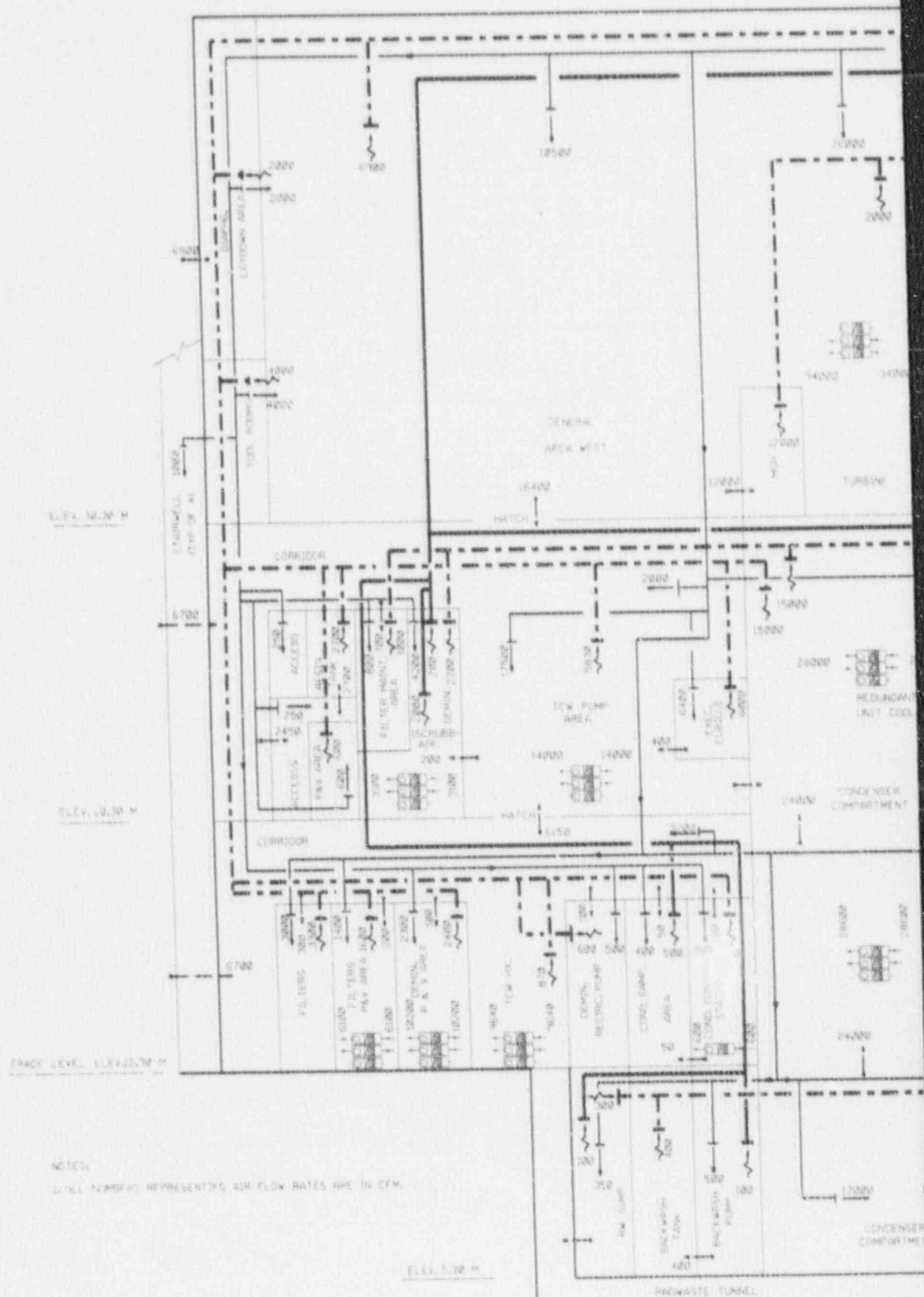


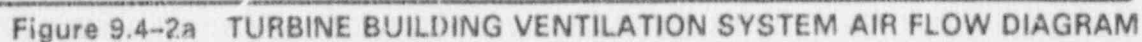
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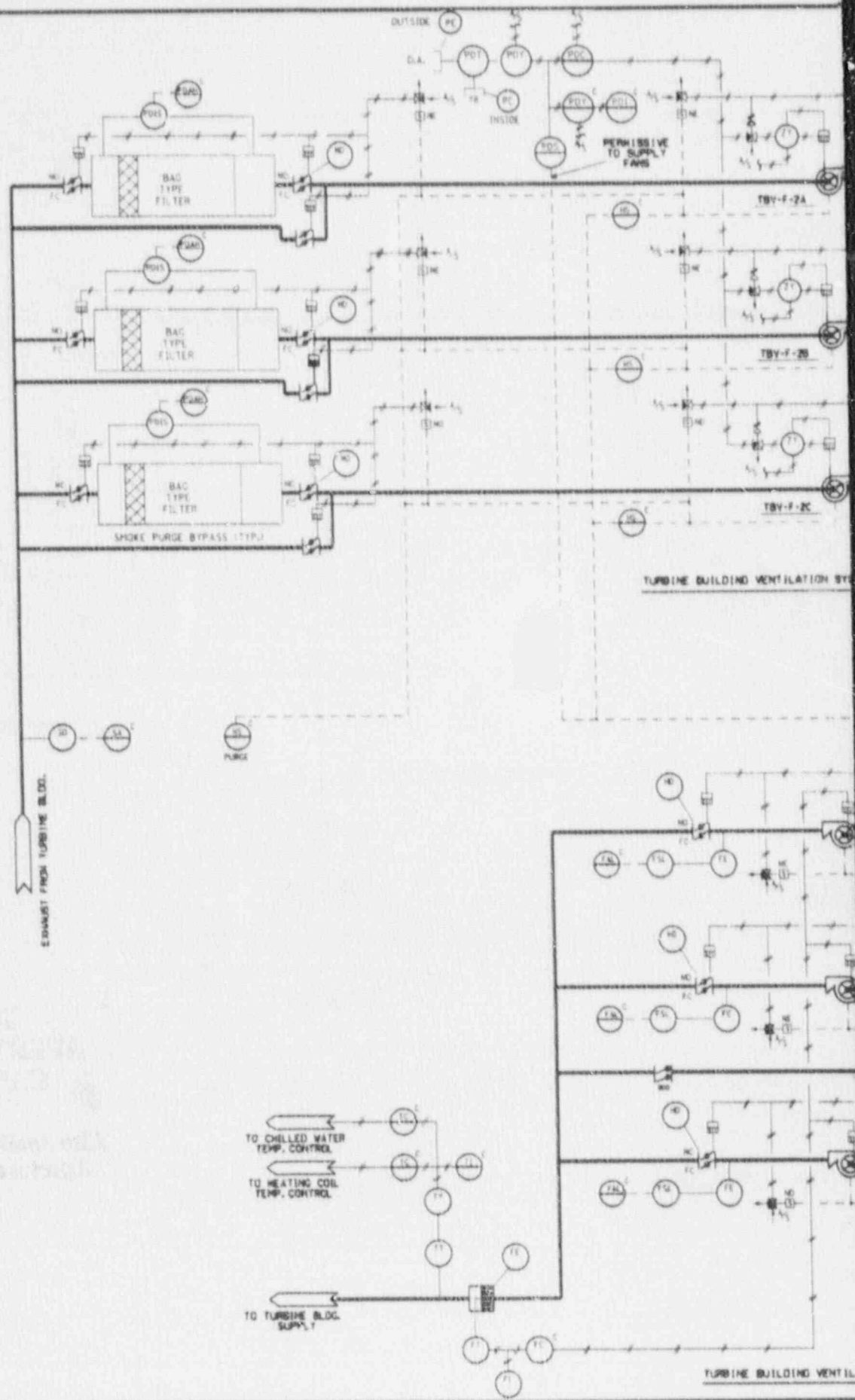
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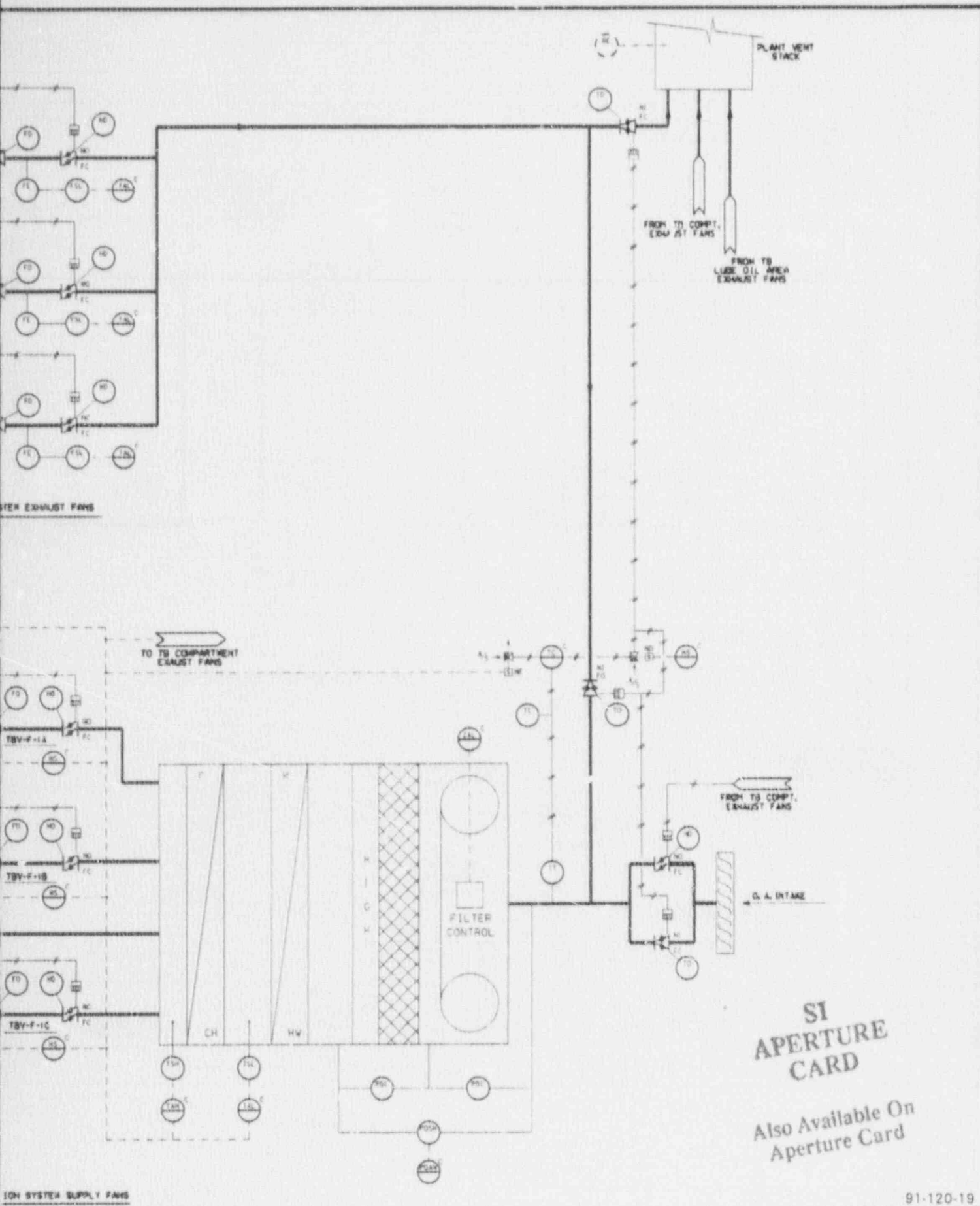
Figure 9.2-1h REACTOR BUILDING COOLING WATER SYSTEM P&ID - SHEET 8





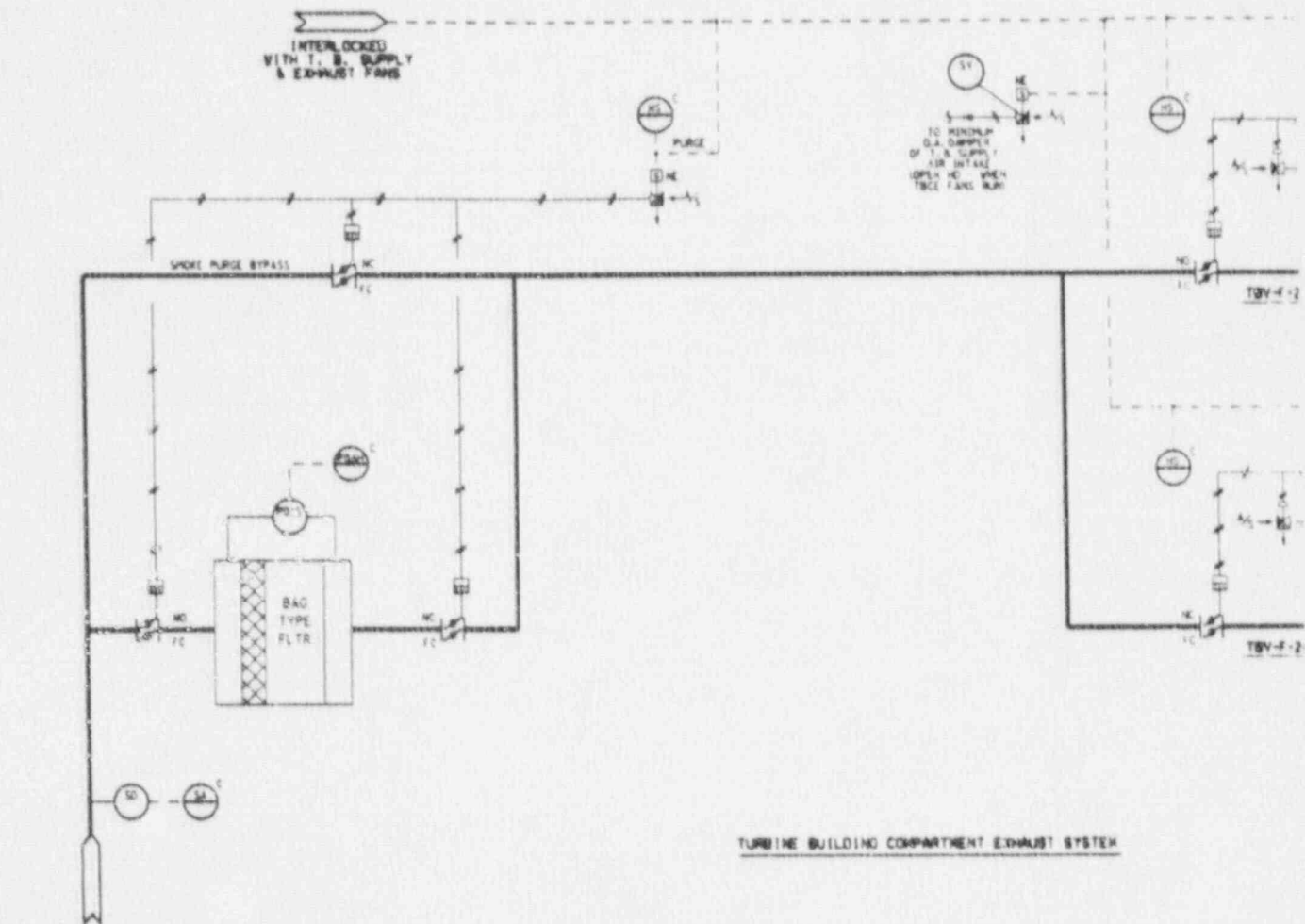






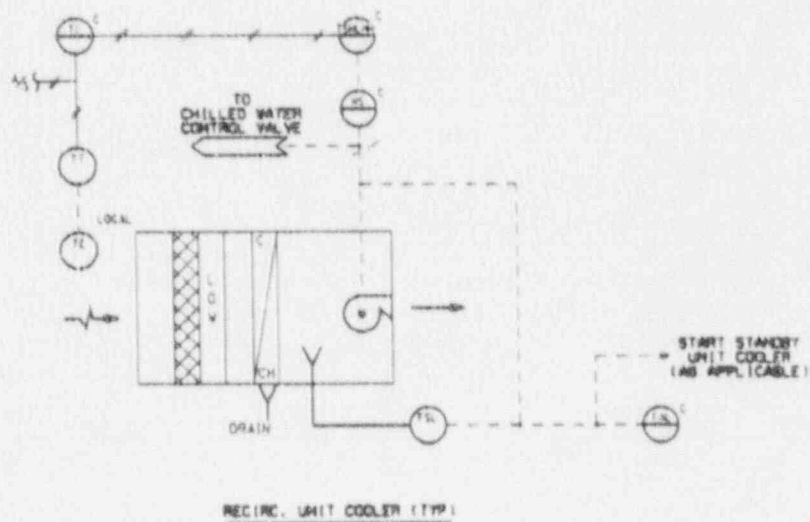
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Figure 9.4-2b TURBINE BUILDING VENTILATION SYSTEM,  
CONTROL DIAGRAM, Sheet 1

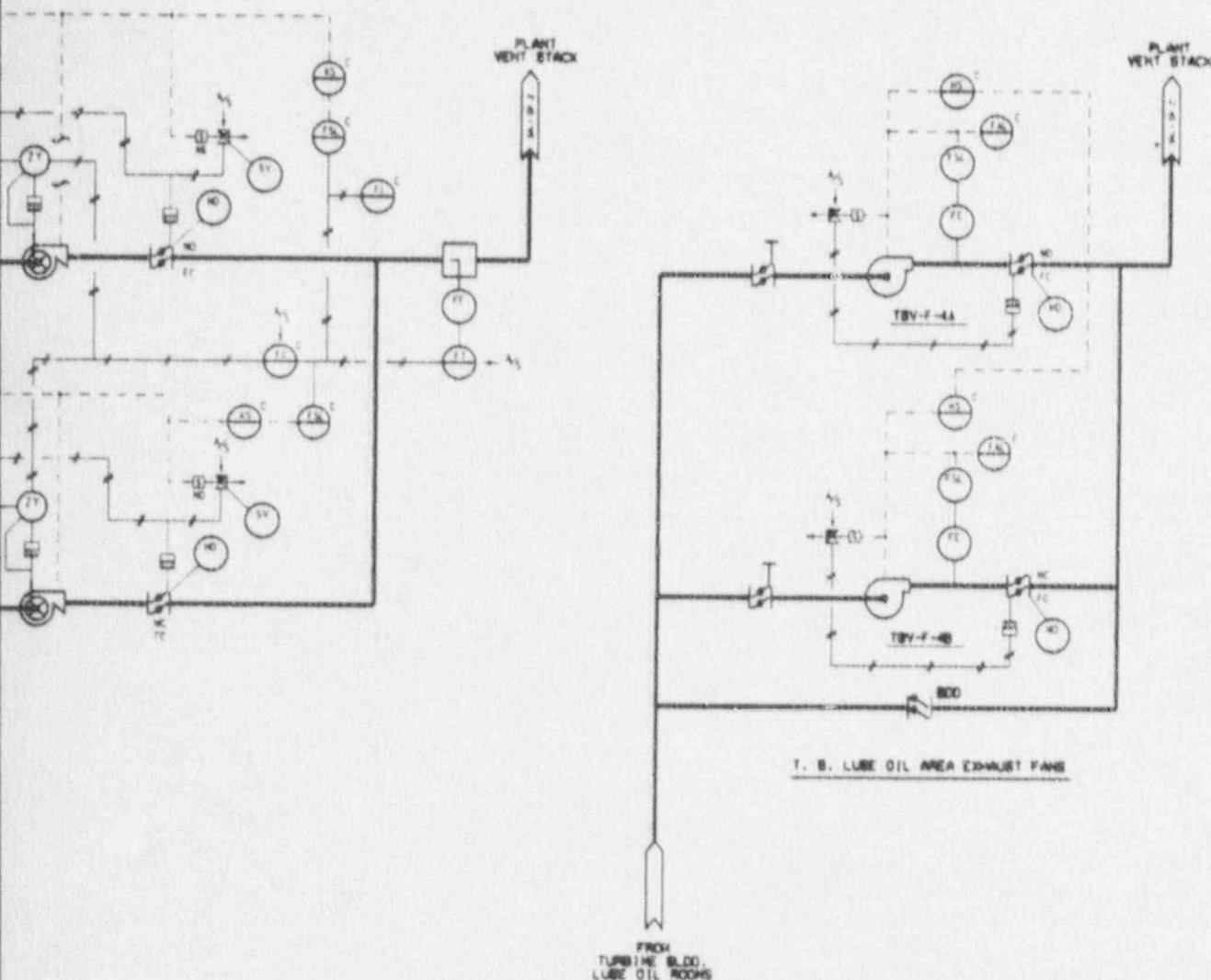


EXHAUST AIR FROM  
POTENTIALLY CONTAMINATED  
TURBINE BLDG. AREA  
EQUIP. COMPARTMENTS

TURBINE BUILDING COMPARTMENT EXHAUST SYSTEM





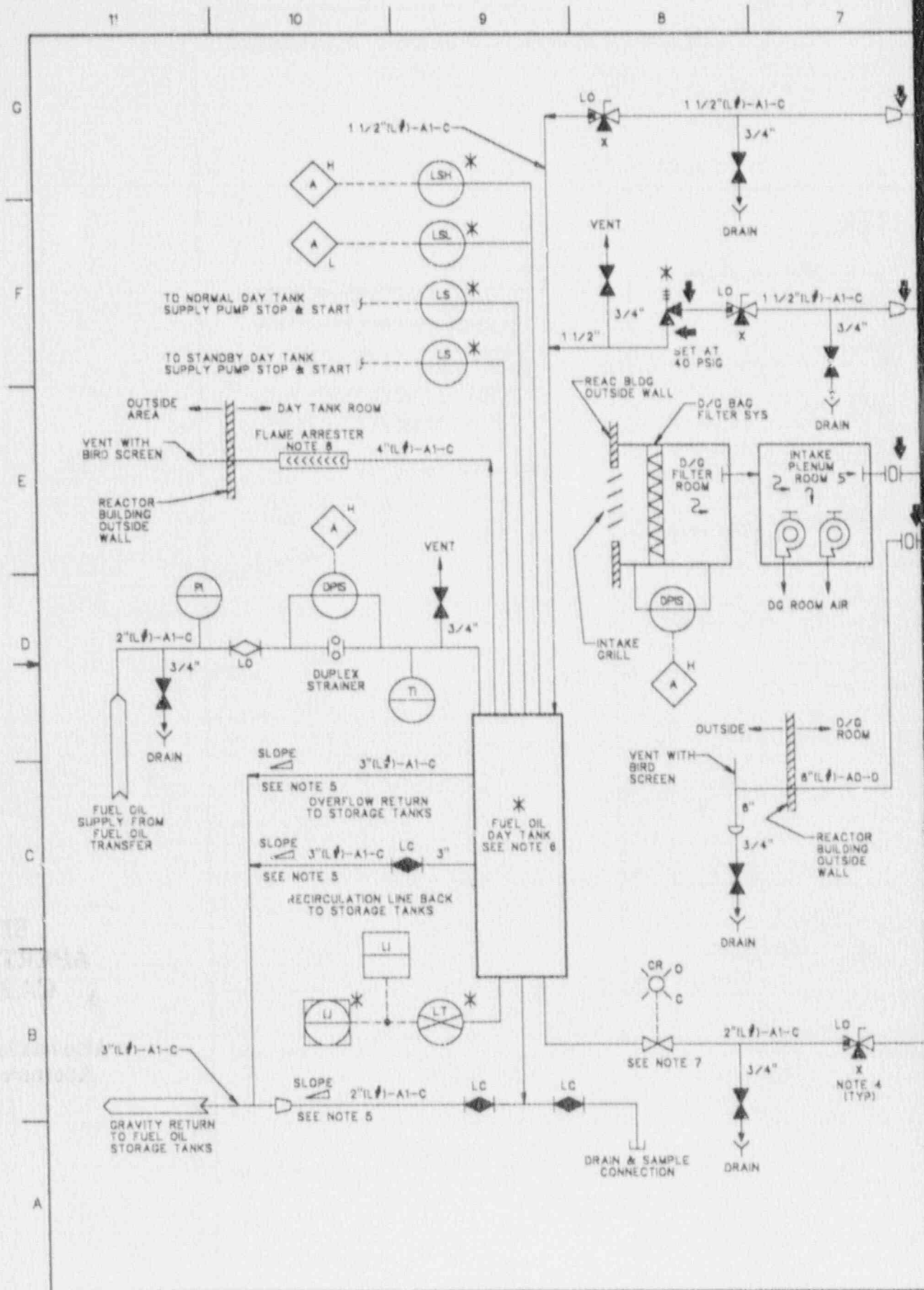


SI  
APERTURE  
CARD

Also Available On  
Aperture Card

91-120-20

Figure 9.4-2b TURBINE BUILDING VENTILATION SYSTEM,  
CONTROL DIAGRAM, Sheet 2



## REV. B



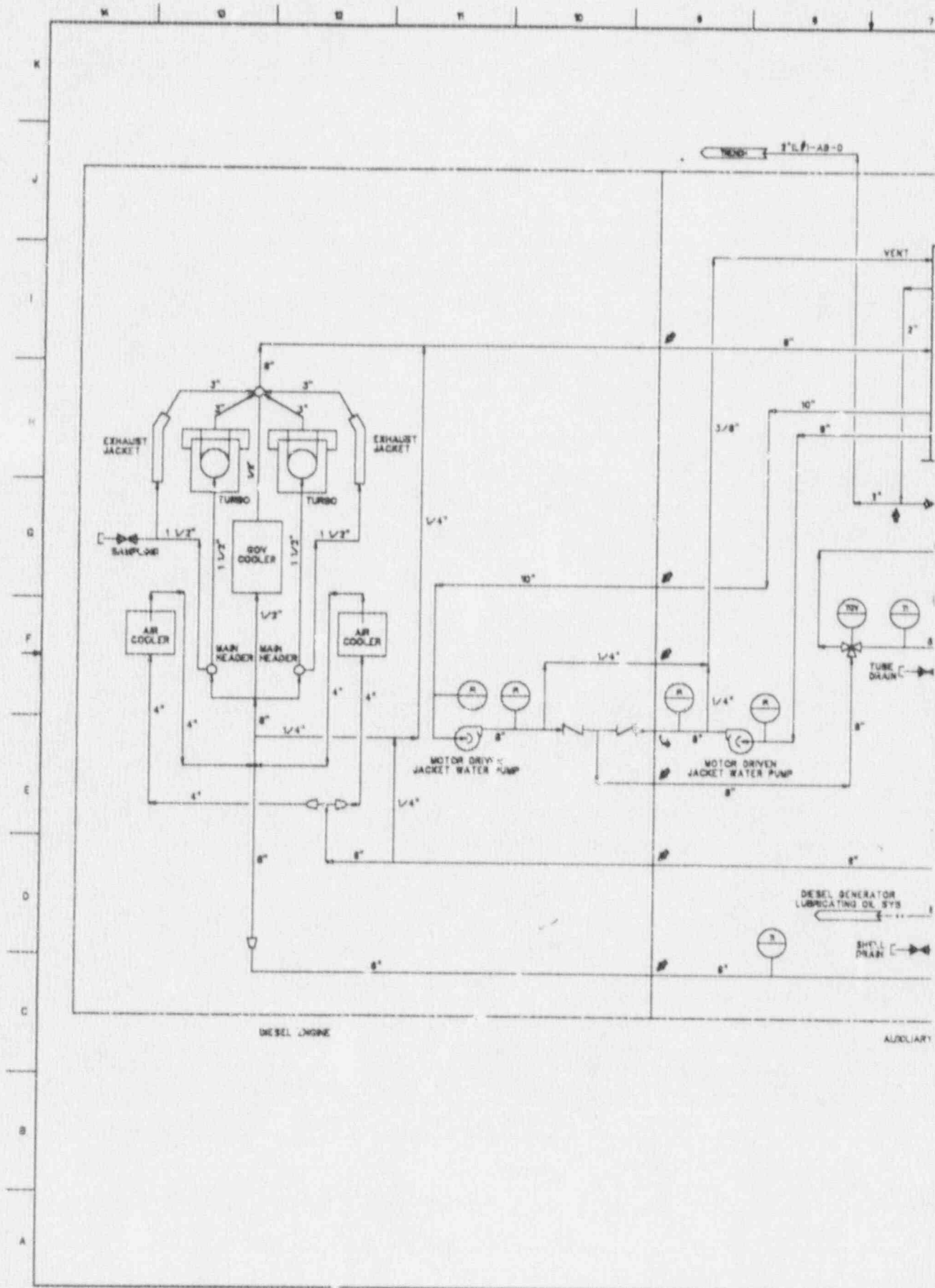
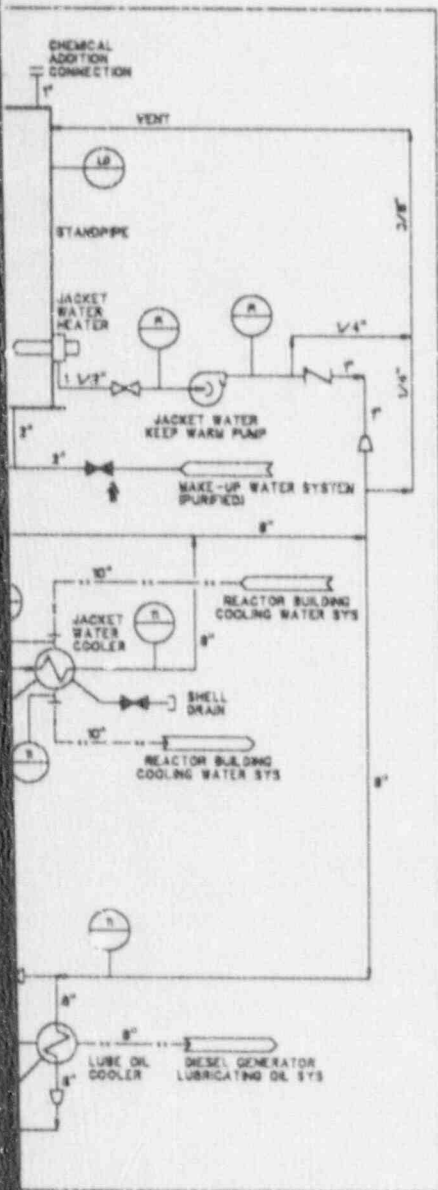


Figure 9.





## NOTES:

1. ALL EQUIPMENT, PIPING, INSTRUMENTS AND CONTROLS ARE FURNISHED BY DIESEL GENERATOR SELLER UNLESS OTHERWISE NOTED.
2. EQUIPMENT WITHIN DIESEL ENGINE OUTLINE FURNISHED ON ENGINE BY SELLER.
3. EQUIPMENT WITHIN AUXILIARY MODULE OUTLINE IS SAFETY CLASS 3, QUALITY GROUP C AND IS FURNISHED BY SELLER.
4. FOR SPECIFICS OF THE DIESEL GENERATOR CONTROL SYSTEMS, SEE SELLER'S CONTROL PANEL SCHEMATICS.
5. FUTURE LINE NUMBERS ARE REPRESENTED BY "L.P." TO BE SUPPLIED AT FINAL DESIGN STAGE.

## LEGEND:

— DENOTES PIPING SPEC CHANGE

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CARD

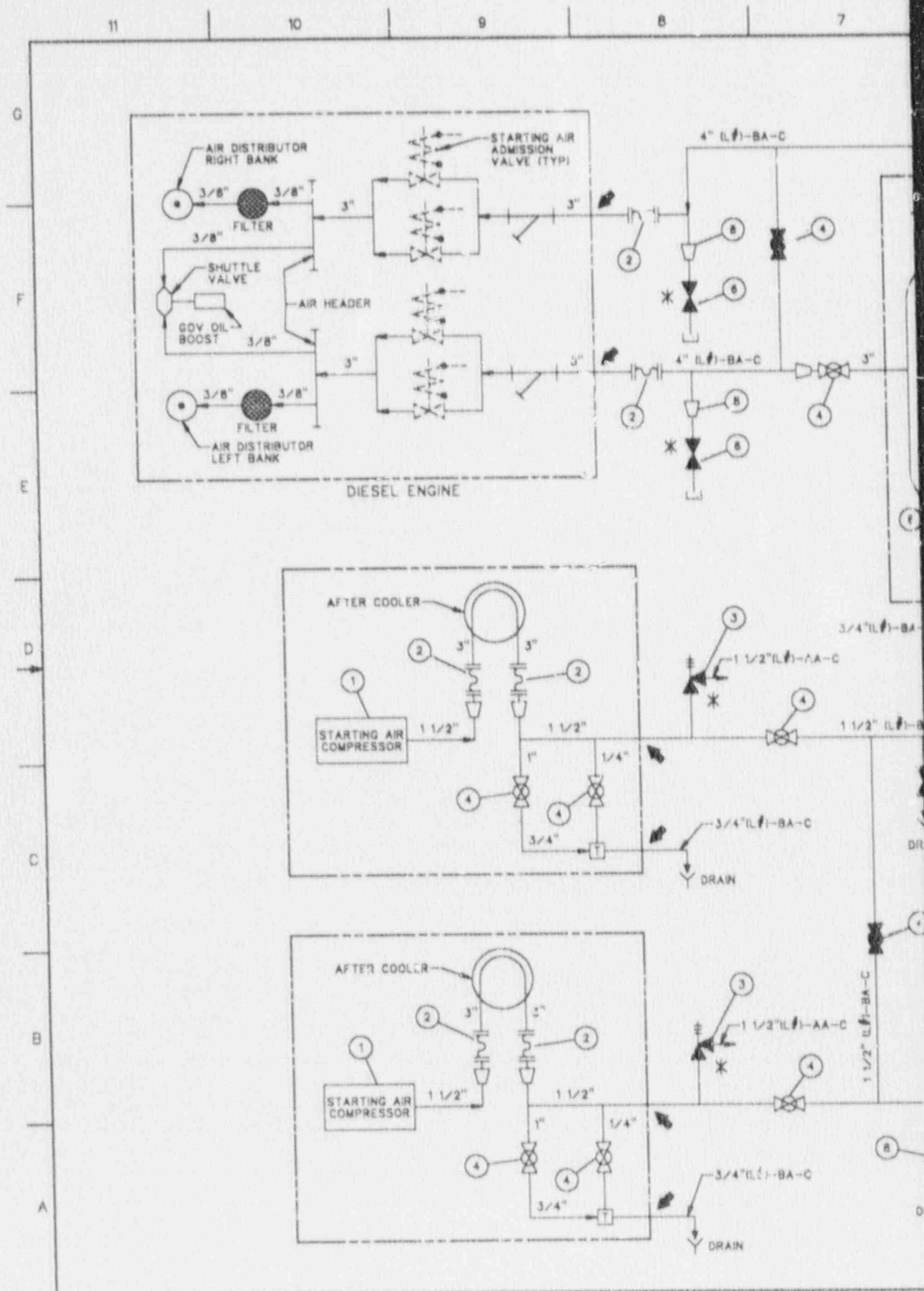
Also Available On  
Aperture Card

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91-120-22

7 STANDBY DIESEL GENERATOR JACKET COOLING WATER SYSTEM





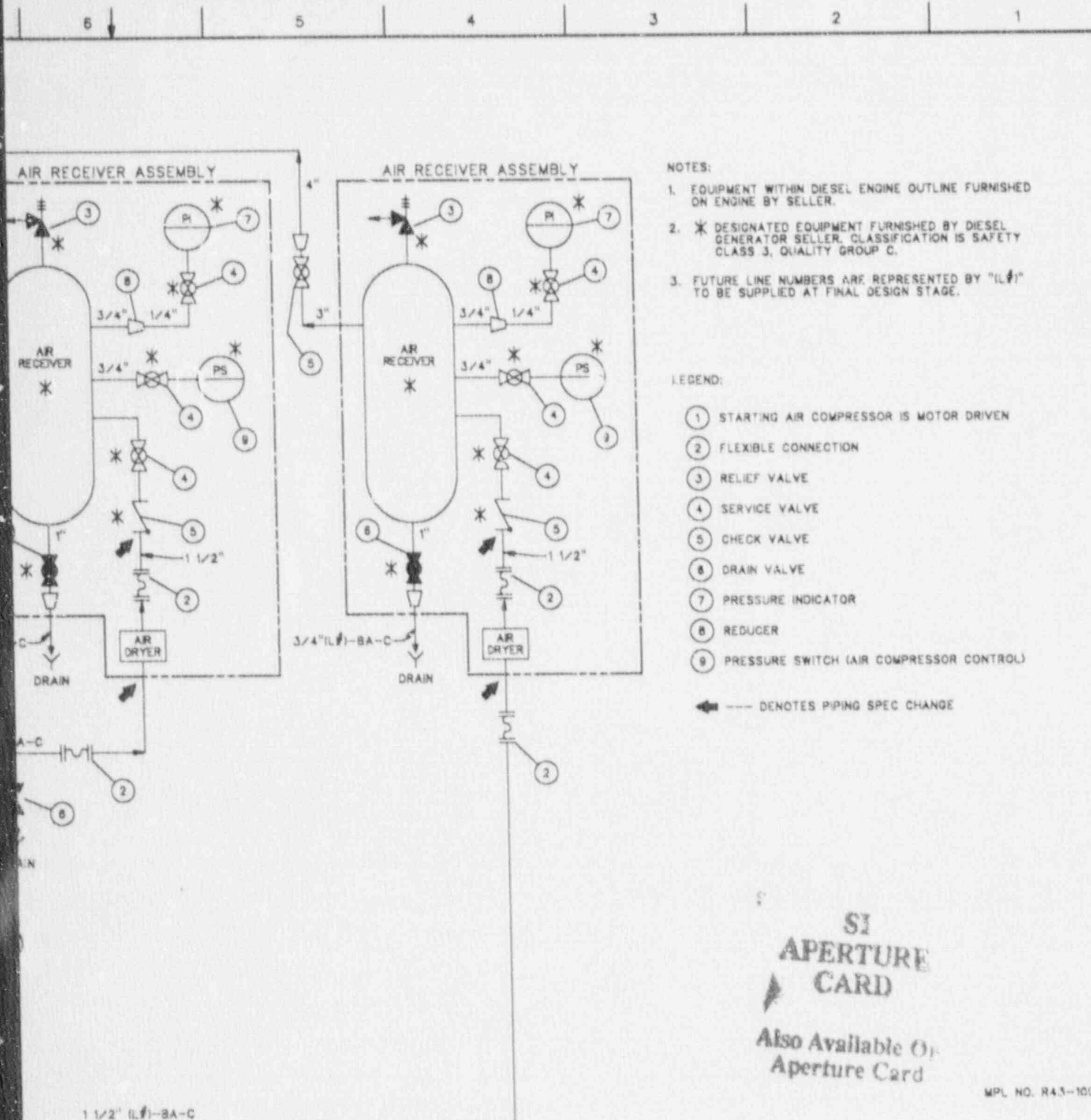
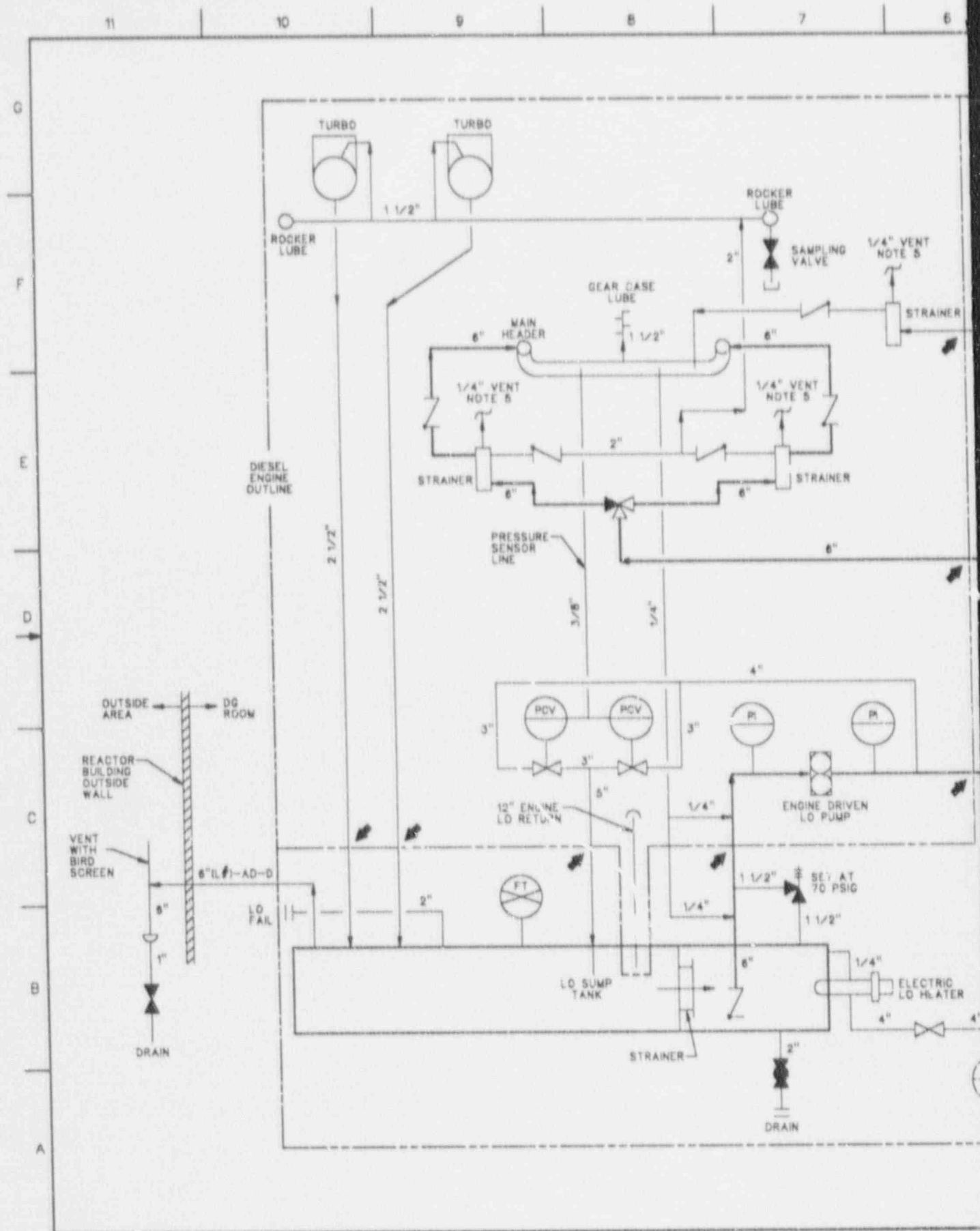
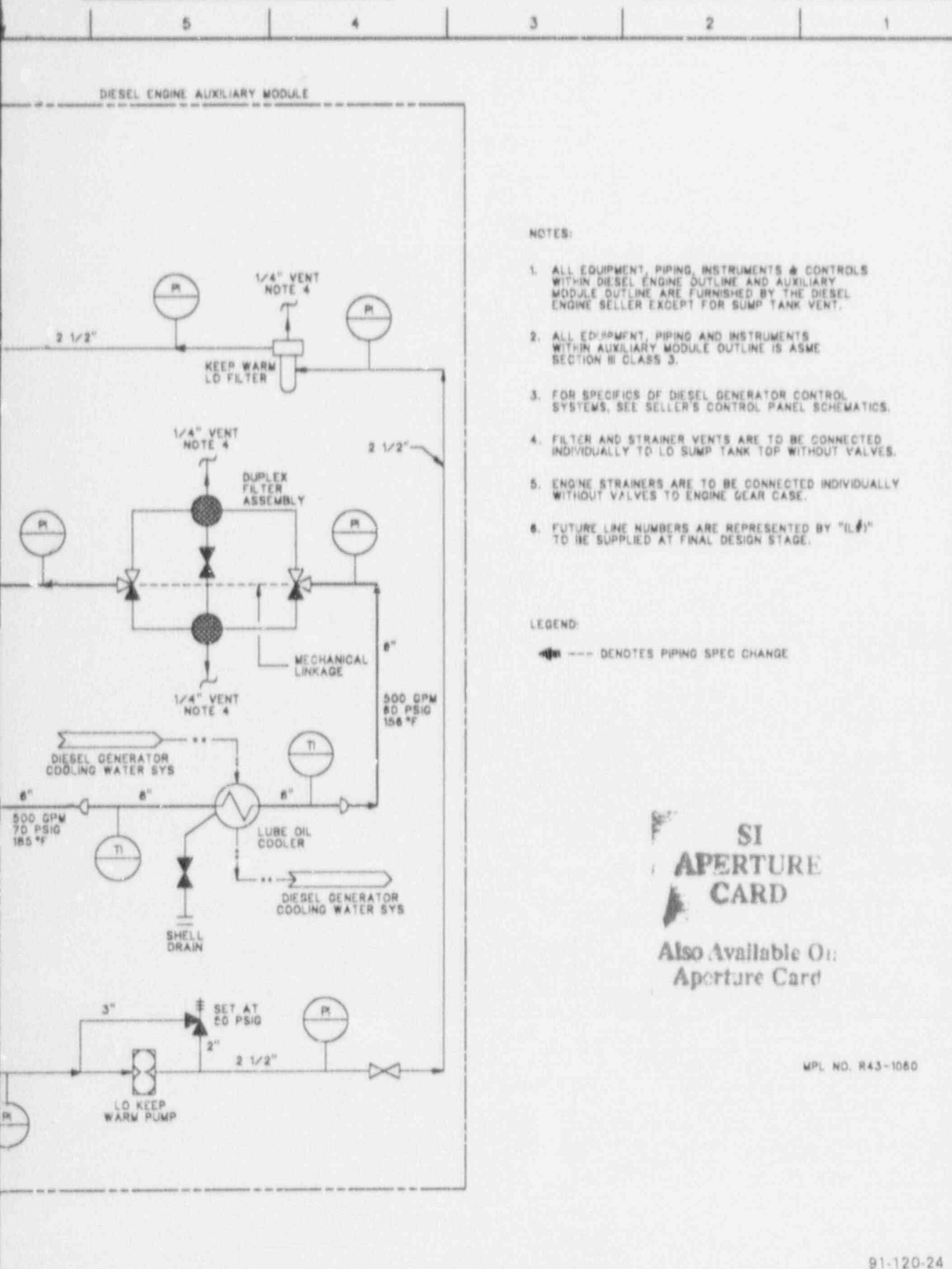


Figure 9.5-8 STANDBY DIESEL GENERATOR STARTING AIR SYSTEM





NOTES:

1. ALL EQUIPMENT, PIPING, INSTRUMENTS & CONTROLS WITHIN DIESEL ENGINE OUTLINE AND AUXILIARY MODULE OUTLINE ARE FURNISHED BY THE DIESEL ENGINE SELLER EXCEPT FOR SUMP TANK VENT.
2. ALL EQUIPMENT, PIPING AND INSTRUMENTS WITHIN AUXILIARY MODULE OUTLINE IS ASME SECTION III CLASS 3.
3. FOR SPECIFICS OF DIESEL GENERATOR CONTROL SYSTEMS, SEE SELLER'S CONTROL PANEL SCHEMATICS.
4. FILTER AND STRAINER VENTS ARE TO BE CONNECTED INDIVIDUALLY TO LO SUMP TANK TOP WITHOUT VALVES.
5. ENGINE STRAINERS ARE TO BE CONNECTED INDIVIDUALLY WITHOUT VALVES TO ENGINE GEAR CASE.
6. FUTURE LINE NUMBERS ARE REPRESENTED BY "L#1" TO BE SUPPLIED AT FINAL DESIGN STAGE.

LEGEND:

--- DENOTES PIPING SPEC CHANGE

SI  
APERTURE  
CARD

Also Available On:  
Aperture Card

MPL NO. R43-1080

91-120-24

Figure 9.5-9 STANDBY DIESEL GENERATOR LUBRICATING OIL SYSTEM

# ABWR

## Standard Plant

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### CHAPTER 1 PROPRIETARY - PAGE STATUS

PAGE	AMEND
1.2-39	6
1.2-40	14
1.2-41	14
1.2-42	14
1.2-43	14
1.2-44	6
1.2-45	6
1.3-5	16
1.3-6	16



# ABWR

## Standard Plant

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### CHAPTEK 4 PROPRIETARY - PAGE STATUS

<u>PAGE</u>	<u>AMEND</u>
4.3-5	15
4.6-22	12
4A-2	0
4A-6	0
4A-8	0
4A-9	0
4A-11	0
4A-12	0
4A-14	0
4A-15	0
4A-17	0
4A-18	0
4A-20	0
4A-21	0
4A-23	0
4A-24	0
4A-26	0
4A-27	0
4A-29	0
4A-30	0
4A-32	0
4A-33	0
4A-35	0
4A-36	0
4A-38	0
4A-39	0
4A-41	0
4A-42	0
4A-44	0
4B-1	15
4B-2	15
4B-3	15
4B-4	15
4B-5	15
4B-6	16
4B-7	16
4B-8	16
4C-1	15

# ABWR

## Standard Plant

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### CHAPTER 6 PROPRIETARY - PAGE STATUS

<u>PAGE</u>	<u>AMEND</u>	<u>PAGE</u>	<u>AMEND</u>
6.2-47	9	6.3-74	2
6.2-48	9	6.3-75	10
6.2-67	9		
6.2-67.1	9		
6.3-21	16		
6.3-23	10		
6.3-42	2		
6.3-43	0		
6.3-44	2		
6.3-45	2		
6.3-46	2		
6.3-47	2		
6.3-48	2		
6.3-49	2		
6.3-50	2		
6.3-51	2		
6.3-52	2		
6.3-53	2		
6.3-54	2		
6.3-55	2		
6.3-56	2		
6.3-57	2		
6.3-58	2		
6.3-59	2		
6.3-60	2		
6.3-61	2		
6.3-62	2		
6.3-63	2		
6.3-64	2		
6.3-65	2		
6.3-66	2		
6.3-67	2		
6.3-68	2		
6.3-69	2		
6.3-70	2		
6.3-71	10		
6.3-72	10		
6.3-73	2		

# ABWR

## Standard Plant

### CHAPTER 7 PROPRIETARY - PAGE STATUS

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
7.2-32	5	7.2-71	5	7.2-109	5	7.3-88	2
7.2-33	5	7.2-72	5	7.2-110	5	7.3-89	2
7.2-34	5	7.2-73	5	7.2-111	5	7.3-90	2
7.2-35	5	7.2-74	5	7.3-52	2	7.3-91	2
7.2-36	5	7.2-75	5	7.3-53	2	7.3-92	2
7.2-37	5	7.2-76	5	7.3-54	2	7.3-93	2
7.2-38	5	7.2-77	5	7.3-55	2	7.3-94	2
7.2-39	5	7.2-78	5	7.3-56	2	7.3-95	2
7.2-40	5	7.2-79	5	7.3-57	2	7.3-96	2
7.2-41	5	7.2-80	5	7.3-58	2	7.3-97	2
7.2-42	5	7.2-81	5	7.3-59	2	7.3-98	2
7.2-43	5	7.2-82	5	7.3-60	2	7.3-99	2
7.2-44	5	7.2-83	5	7.3-61	2	7.3-100	2
7.2-45	5	7.2-84	5	7.3-62	2	7.3-101	2
7.2-46	5	7.2-85	5	7.3-63	2	7.3-102	2
7.2-47	5	7.2-86	5	7.3-64	2	7.3-103	2
7.2-48	5	7.2-87	5	7.3-65	2	7.3-104.1	14
7.2-49	5	7.2-88	5	7.3-66	2	7.3-104.2	14
7.2-50	5	7.2-89	5	7.3-67	2	7.3-104.3	14
7.2-51	5	7.2-90	5	7.3-68	2	7.3-104.4	14
7.2-52	5	7.2-91	5	7.3-69	2	7.3-104.5	14
7.2-53	5	7.2-92	5	7.3-70	2	7.3-104.6	14
7.2-54	5	7.2-93	5	7.3-71	2	7.3-104.7	14
7.2-55	5	7.2-94	5	7.3-72	2	7.3-104.8	14
7.2-56	5	7.2-95	5	7.3-73	2	7.3-104.9	14
7.2-57	5	7.2-96	5	7.3-74	2	7.3-104.10	14
7.2-58	5	7.2-97	5	7.3-75	2	7.3-104.11	14
7.2-59	5	7.2-98	5	7.3-76	2	7.3-104.12	14
7.2-60	5	7.2-99	5	7.3-77	2	7.3-104.13	14
7.2-61	5	7.2-100	5	7.3-78	2	7.3-104.14	14
7.2-62	5	7.2-101	5	7.3-79	2	7.3-104.15	14
7.2-63	5	7.2-102	5	7.3-80	2	7.3-104.16	14
7.2-64	5	7.2-103	5	7.3-81	2	7.3-104.17	14
7.2-65	5	7.2-104	5	7.3-82	2	7.3-104.18	14
7.2-66	5	7.2-105	5	7.3-83	2	7.3-104.19	14
7.2-67	5	7.2-106	5	7.3-84	2	7.3-104.20	14
7.2-68	5	7.2-107	5	7.3-85	2	7.3-104.21	14
7.2-69	5	7.2-108	5	7.3-86	2	7.3-104.22	14
7.2-70	5			7.3-87	2		

# ABWR

## Standard Plant

### CHAPTER 7 PROPRIETARY - E STATUS (Continued)

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
7.3-104.23	14	7.3-104.61	14	7.3-127	2	7.5-5	5
7.3-104.24	14	7.3-104.62	14	7.3-128	2	7.5-6	5
7.3-104.25	14	7.3-104.63	14	7.3-129	2	7.5-7	5
7.3-104.26	14	7.3-104.64	14	7.3-130	2	7.5-8	5
7.3-104.27	14	7.3-104.65	14	7.3-131	2	7.5-9	5
7.3-104.28	14	7.3-104.66	14	7.3-133	2	7.5-10	5
7.3-104.29	14	7.3-104.67	14	7.3-134	2	7.5-11	5
7.3-104.30	14	7.3-104.68	14	7.3-135	2	7.5-12	5
7.3-104.31	14	7.3-104.69	14	7.3-136	2	7.5-13	5
7.3-104.32	14	7.3-104.70	14	7.3-137	2	7.5-14	5
7.3-104.33	14	7.3-104.71	14	7.3-138	2	7.5-15	5
7.3-104.34	14	7.3-104.72	14	7.3-139	2	7.5-16	5
7.3-104.35	14	7.3-104.73	14	7.3-140	2	7.5-17	5
7.3-104.36	14	7.3-104.74	14	7.3-141	2	7.5-18	5
7.3-104.37	14	7.3-104.75	14	7.3-142	2	7.5-19	5
7.3-104.38	14	7.3-104.76	14	7.3-143	2	7.5-20	5
7.3-104.39	14	7.3-104.77	14	7.4-19	2	7.5-21	5
7.3-104.40	14	7.3-105	2	7.4-20	2	7.5-22	5
7.3-104.41	14	7.3-106	2	7.4-21	2	7.5-23	5
7.3-104.42	14	7.3-107	2	7.4-22	2	7.5-24	5
7.3-104.43	14	7.3-108	2	7.4-23	2	7.5-25	5
7.3-104.44	14	7.3-109	2	7.4-24	2	7.6-24	2
7.3-104.45	14	7.3-110	2	7.4-25	2	7.6-25	2
7.3-104.46	14	7.3-111	2	7.4-26	2	7.6-26	2
7.3-104.47	14	7.3-112	2	7.4-27	2	7.6-27	2
7.3-104.48	14	7.3-113	2	7.4-28	2	7.6-28	2
7.3-104.49	14	7.3-114	2	7.4-29	2	7.6-29	2
7.3-104.50	14	7.3-115	2	7.4-30	2	7.6-30	2
7.3-104.51	14	7.3-116	2	7.4-31	2	7.6-31	2
7.3-104.52	14	7.3-117	2	7.4-32	2	7.6-32	2
7.3-104.53	14	7.3-118	2	7.4-33	2	7.6-33	2
7.3-104.54	14	7.3-119	2	7.4-34	2	7.6-34	2
7.3-104.55	14	7.3-120	2	7.4-35	2	7.6-35	2
7.3-104.56	14	7.3-121	2	7.5-1	5	7.6-36	2
7.3-104.57	14	7.3-122	2	7.5-2	5	7.6-37	2
7.3-104.58	14	7.3-123	2	7.5-3	5	7.6-38	2
7.3-104.59	14	7.3-124	2	7.5-4	5	7.6-39	2
7.3-104.60	14	7.3-125	2				
		7.3-126	2				

# ABWR

## Standard Plant

### CHAPTER 7

#### PROPIETARY - PAGE STATUS (Continued)

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
7.6-40	2	7.7-42	2	7.7-80	2	7A.2-20	6
7.6-41	2	7.7-43	2	7.7-81	2	7A.2-21	6
7.6-42	2	7.7-44	2	7.7-82	2	7A.2-22	6
7.6-46	2	7.7-45	2	7.7-83	2	7A.3-1	6
7.6-47	2	7.7-46	2	7.7-84	2	7A.3-2	6
7.6-48	2	7.7-47	2	7.7-85	2	7A.3-3	6
7.6-49	2	7.7-48	2	7.7-86	2	7A.4-1	6
7.6-50	2	7.7-49	2	7.7-87	2	7A.5-1	6
7.6-51	2	7.7-50	2	7.7-89	11	7A.6-1	6
7.6-52	2	7.7-51	2	7.7-90	11	7A.7-1	6
7.6-53	2	7.7-52	2	7.7-91	11	7A.7-2	8
7.6-54	2	7.7-53	2	7.7-92	11	7A.7-3	8
7.6-55	2	7.7-54	2	7.7-93	11	7A.7-4	6
7.6	2	7.7-55	2	7.7-94	11		
7.6-	2	7.7-56	2	7.7-95	11		
7.6-58	2	7.7-57	2	7.7-96	11		
7.6-59	2	7.7-58	2	7A COVER			
7.6-60	2	7.7-59	2	7A.1-1	6		
7.6-61	2	7.7-60	2	7A.2-1	6		
7.6-62	2	7.7-61	2	7A.2-2	9		
7.6-63	2	7.7-62	2	7A.2-3	9		
7.6-64	2	7.7-64	2	7A.2-4	6		
7.6-65	2	7.7-65	2	7A.2-5	6		
7.6-66	2	7.7-66	2	7A.2-6	6		
7.6-67	2	7.7-67	2	7A.2-7	6		
7.6-68	2	7.7-68	2	7A.2-8	6		
7.6-69	2	7.7-69	2	7A.2-9	6		
7.6-70	2	7.7-70	2	7A.2-10	6		
7.6-71	2	7.7-71	2	7A.2-11	6		
7.6-72	2	7.7-72	2	7A.2-12	6		
7.6-73	2	7.7-73	2	7A.2-13	6		
7.6-74	2	7.7-74	2	7A.2-14	6		
7.6-75	2	7.7-75	2	7A.2-15	6		
7.6-76	2	7.7-76	2	7A.2-16	6		
7.6-77	2	7.7-77	2	7A.2-17	6		
7.6-80	14	7.7-78	2	7A.2-18	6		
7.6-81	14	7.7-79	2	7A.2-19	6		
7.6-82	14						



# ABWR

## Standard Plant

### CHAPTER 9

#### PROPRIETARY - PAGE STATUS

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
9.3-1a	6	9.4-7d	6	9.5-10e	6	9A.4-23	16
9.3-1b	6	9.4-7e	6	9.5-12	6	9A.4-24	16
9.3-1c	9	9.4-7f	6	9A.1-1	14	9A.4-25	16
9.3-1d	6	9.4-7g	6	9A.2-1	16	9A.4-26	16
9.3-7	16	9.5-1	16	9A.2-2	16	9A.4-27	16
9.3-7.1	16	9.5-1.0	16	9A.2-3	16	9A.4-28	16
9.3-8	8	9.5-1.0.1	16	9A.2-4	16	9A.4-29	16
9.3-8a	6	9.5-1.0.2	16	9A.2-5	7	9A.4-30	16
9.3-11	16	9.5-1.1	16	9A.2-6	6	9A.4-31	16
9.3-11.1	16	9.5-1.2	16	9A.2-7	6	9A.4-32	16
9.3-11.2	16	9.5-1.3	16	9A.2-8	6	9A.4-33	16
9.3-13.2	16	9.5-1.4	16	9A.2-9 - 18	14	9A.4-34	16
9.3-15a	6	9.5-1.5	16	9A.3-1	16	9A.4-35	16
9.3-15b	6	9.5-1.6	16	9A.3-2	6	9A.4-36	16
9.3-15c	6	9.5-1.7	16	9A.4-1	16	9A.4-37	16
9.3-15d	6	9.5-2	16	9A.4-2	16	9A.4-38	16
9.3-15e	6	9.5-2a	6	9A.4-3	16	9A.4-39	16
9.3-15f	16	9.5-2b	16	9A.4-4	16	9A.4-40	16
9.3-19	6	9.5-3	6	9A.4-5	16	9A.4-41	16
9.3-20	6	9.5-3.1	16	9A.4-6	16	9A.4-42	6
9.3-21	6	9.5-3.2	16	9A.4-7	16	9A.4-43	6
9.3-22	6	9.5-3.3	16	9A.4-8	16	9A.4-44	6
9.3-23	6	9.5-3.4	16	9A.4-9	16	9A.4-45	6
9.4-2c	16	9.5-4	16	9A.4-10	16	9A.4-46	6
9.4-2d	16	9.5-4.1	16	9A.4-11	16	9A.4-47	6
9.4-2e	16	9.5-4.2	16	9A.4-12	16	9A.4-48	6
9.4-2f	16	9.5-5	16	9A.4-13	16	9A.4-49	6
9.4-2g	16	9.5-5.1	16	9A.4-14	16	9A.4-50	6
9.4-2h	16	9.5-6	16	9A.4-15	16	9A.4-51	6
9.4-2i	16	9.5-6.1	16	9A.4-16	16	9A.4-52	6
9.4-2ia	16	9.5-7	16	9A.4-17	16	9A.4-53	6
9.4-7.1	16	9.5-7.1	16	9A.4-18	16	9A.4-54	6
9.4-7.2	16	9.5-8	16	9A.4-19	16	9A.4-55	6
9.4-7.3	16	9.5-8a	6	9A.4-20	16	9A.4-56	6
9.4-7.4	16	9.5-10a	6	9A.4-21	16	9A.4-57	6
9.4-7.5	16	9.5-10b	6	9A.4-22	16	9A.4-58	6
		9.5-10c	6			9A.4-59	6
		9.5-10d	6			9A.4-60	6

# ABWR

## Standard Plant

### CHAPTER 9

#### PROPRIETARY - PAGE STATUS (Continued)

PAGE	AMEND	PAGE	AMEND	PAGE	AMEND	PAGE	AMEND
9A.4-61	6	9A.4-99	16	9A.4-133	6	9A.4-171	16
9A.4-62	6	9A.4-100	16	9A.4-134	16	9A.4-172	16
9A.4-63	6	9A.4-101	16	9A.4-135	16	9A.4-172.1	16
9A.4-64	6	9A.4-102	16	9A.4-136	16	9A.4-173	16
9A.4-65	6	9A.4-103	16	9A.4-137	16	9A.4-174	16
9A.4-66	6	9A.4-104	16	9A.4-138	16	9A.4-175	16
9A.4-67	6	9A.4-105	16	9A.4-139	16	9A.4-176	16
9A.4-68	6	9A.4-106	16	9A.4-140	16	9A.4-177	16
9A.4-69	6	9A.4-107	16	9A.4-141	16	9A.4-178	16
9A.4-70	16	9A.4-108	16	9A.4-142	16	9A.4-179	16
9A.4-71	16	9A.4-108.1	16	9A.4-143	16	9A.4-180	16
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9A.4-96	16	9A.4-130	16	9A.4-168	16	9A.4-205	16
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9A.4-212	16	9A.4-224.26	16	9A.4-228	14	9A.4-264	14
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9A.4-216	16	9A.4-224.30	16	9A.4-232	14	9A.4-268	14
9A.4-217	16	9A.4-224.31	16	9A.4-233	14	9A.4-269	14
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9A.4-224.1	16	9A.4-224.39	16	9A.4-239.2	14	9A.5-5	6
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9A.6-39	6	9A.6-77	6	9A.6-115	14	9A.6-153	14
9A.6-40	6	9A.6-78	6	9A.6-116	14	9A.6-154	14
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9A.6-42	6	9A.6-80	6	9A.6-118	14	9A.6-156	14
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11.2-9	16	11.3-2.1	16	11.4-7	13
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11.2-11	16	11.3-4	16	11.4-9	6
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11.2-13	6	11.3-5	14		
11.2-14	6	11.3-6	6		
11.2-15	6	11.3-7	6		
11.2-16	6	11.3-8	6		
11.2-17	6	11.3-9	7		
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19.2-3	10	19.3-24	4	19A.1-5	6	19B.2-20	11
19.2-4	10	19.3-25	8	19A.2-1	6	19B.2-21	11
19.2-5	10	19.4-1	10	19A.2-2	6	19B.2-22	11
19.2-6	10	19.4-2	10	19A.2-3	6	19B.2-23	11
19.2-7	8	19.4-3	10	19A.2-4	6	19B.2-24	11
19.3-1	4	19.4-4	8	19A.2-5	6	19B.2-25	11
19.3-2	8	19.4-5	8	19A.2-6	6	19B.2-26	7
19.3-2.1	10	19.4-6	8	19A.2-7	6	19B.2-27	7
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19.3-6	4	19.4-10	8	19A.2-11	6	19B.2-31	7
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19B.2-58	11	19D.4-12	10	19D.5-11	11	19D.5-46	8
19B.2-59	7	19D.4-13	10	19D.5-11.1	8	19D.5-47	8
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19B.2-60.3	11	19D.4-17	8	19D.5-15	8	19D.6-4	9
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19D.2-1	4	19D.4-23	8	19D.5-20.1	8	19D.6-9	8
19D.2-2	4	19D.4-24	8	19D.5-21	8	19D.6-10	4
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19D.6-32	10	19D.6-70	4	19D.6-108	4	19D.6-187	8
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19D.6-36	10	19D.6-74	4	19D.6-112	4	19D.6-191	4
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19D.6-45	4	19D.6-83	4	19D.6-121	4	19D.6-200	4
19D.6-46	4	19D.6-84	4	19D.6-122	4	19D.6-201	4
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19E.2-2	8	19E.2-40	8	19E.2-76	8	19E.3-2	8
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19E.2-16	10	19E.2-53	8	19E.2-90	8	19F.1-3	4
19E.2-17	10	19E.2-54	8	19E.2-91	8	19F.1-4	4
19E.2-18	10	19E.2-55	10	19E.2-92	8	19F.1-5	4
19E.2-19	8	19E.2-56	10	19E.2-93	8	19F.2-1	4
19E.2-20	8	19E.2-57	8	19E.2-94	8	19F.2-2	9
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19F.2-17	4	19H.3-7	8	19J.3-1	9	19L.5-8	15
19F.2-18	4	19H.3-8	8	19J.3-2	9	19L.5-9	15
19F.2-19	4	19H.3-9	8	19J.4-1	9	19L.6-1	15
19F.2-20	4	19H.3-10	3	19J.5-1	9	19L.6-2	15
19F.2-21	4	19H.4-1	8	19J.5-2	9	19L.6-3	15
19F.2-22	4	19H.4-2	8	19J.5-3	9	19L.6-4	15
19F.2-23	4	19H.4-3	8	19J.5-4	9	19L.6-5	15
19F.2-24	4	19H.4-4	8	19J.5-5	9	19L.6-6	15
19F.2-25	4	19H.4-5	8	19J.5-6	9	19L.6-7	15
19F.2-26	4	19H.4-6	8	19J.5-7	9	19L.6-8	15
19F.2-27	4	19H.4-7	8	19J.5-8	9	19L.6-9	15
19F.2-28	4	19H.4-8	8	19J.5-9	13	19L.6-10	15
19F.2-29	4	19H.4-9	11	19J.6-1	9	19L.6-11	15
19F.2-30	4	19H.4-10	11	19J.6-2	9	19L.6-12	15
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19F.2-32	4	19I.1-1	8	19K.2-1	14	19L.6-14	15
19F.2-33	4	19I.2-1	8	19K.3-1	14	19L.6-15	15
19F.3-1	4	19I.2-2	8	19K.3-2	14	19L.6-16	15
19F.3-2	4	19I.2-3	8	19K.4-1	14	19L.6-17	15
19F.3-3	4	19I.2-4	8	19K.5-1	14	19L.6-18	15
19F.3-4	4	19I.2-5	8	19K.5-2	14	19L.6-19	15
19F.3-5	9	19I.2-6	8	19K.5-3	14	19L.6-20	15
19F.3-6	4	19I.2-7	8	19K.6-1	14	19L.6-21	15
19F.3-7	4	19I.2-8	8	19L.1-1	15	19L.7-1	15
19F.3-8	4	19I.2-9	8	19L.2-1	15	19L.7-2	15
19F.4-1	4	19I.3-1	8	19L.3-1	15	19L.7-3	15
19H.1-1	8	19I.3-2	8	19L.4-1	15	19L.8-1	15
19H.2-1	8	19I.3-3	8	19L.4-2	15	19L.8-2	15
19H.2-2	8	19I.3-4	8	19L.5-1	15	19L.8-3	15
19H.2-3	8	19I.3-5	8	19L.5-2	15	19L.8-4	15
19H.3-1	8	19I.4-1	8	19L.5-3	15	19L.9-1	15
19H.3-2	8	19I.4-2	8	19L.5-4	15	19L.9-2	15
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20.3-256	10	20.3-322	13	20.3-350.10	16	20.3-357	16
20.3-257	11	20.3-323	13	20.3-350.11	16	20.3-358	16
20.3-258	10	20.3-324	13	20.3-350.12	16	20.3-359	16
20.3-259	10	20.3-325	13	20.3-350.13	16	20.3-360	16
20.3-260	10	20.3-326	13	20.3-350.14	16	20.3-361	16
20.3-261	10	20.3-327	13	20.3-350.15	16	20.3-362	16
20.3-262	10	20.3-328	13	20.3-350.16	16	20.3-363	16
20.3-263	10	20.3-329	13	20.3-350.17	16	20.3-364	16
20.3-264	10	20.3-330	13	20.3-350.18	16	20.3-365	16
20.3-265	10	20.3-331	13	20.3-351.1	16	20.3-366	16
20.3-266	10	20.3-332	13	20.3-351.2	16	20.3-367	16
20.3-267	10	20.3-333	13	20.3-351.4	16	20.3-368	16
20.3-268	10	20.3-334	13	20.3-351.5	16	20.3-369	16
20.3-269	10	20.3-335	13	20.3-351.7	16	20.3-370	16
20.3-270	10	20.3-336	13	20.3-351.7.1	16	20.3-371	16
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20.3-272	10	20.3-338	13	20.3-351.13	16	20.3-373	16
20.3-273	10	20.3-339	13	20.3-351.13.1	16	20.3-374	16
20.3-274	10	20.3-340	13	20.3-351.18	16	20.3-375	16
20.3-275	10	20.3-341	13	20.3-351.19	16	20.3-376	16
20.3-276	10	20.3-342	13	20.3-351.19.1	16	20.3-377	16
20.3-277	10	20.3-343	13	20.3-351.20	16	20.3-378	16
20.3-278	10	20.3-344	13	20.3-351.22	16	20.3-379	16
20.3-279	10	20.3-345	13	20.3-351.23	16	20.3-380	16
20.3-280	10	20.3-346	13	20.3-351.24	16	20.3-381	16
20.3-281	10	20.3-347	13	20.3-351.25	16	20.3-382	16
20.3-282	10	20.3-348	13	20.3-351.26	16	20.3-383	16
20.3-283	10	20.3-349	13	20.3-351.27	16	20.3-384	16
20.3-284	10	20.3-350	16	20.3-351.28	16	20.3-385	16
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20.3-287	10	20.3-350.3	16	20.3-354.13	16	20A-4	3
20.3-288	10	20.3-350.4	16	20.3-354.13.1	16	20A-5	3
20.3-289	10	20.3-350.5	16	20.3-354.14	16		
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