

Change Request No. SG-29  
Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: L-1KC-31 Revision: 0  
Procedure Title: FLUSH PROTECTION WATER FLUSH

Major Change     

Minor Change X

Submitted by: ED LASH

Date: 11 June 86

**DESCRIPTION OF CHANGE:**

1. ADD NEW STEP 6.33.4A TO READ: "OPEN VALVE 270 AND CLOSE HV 2703. OPEN TEMPORARY ISOLATION VALVE AT A-272 AND FLUSH LINE 270-4" UNTIL EFFLUENT MEETS REQUIREMENTS. CLOSE TEMPORARY VALVE AND OPEN HV 2703"
2. IN STEP 6.33.5, DELETE THE WORDS "LINE 270-4" AND "FROM".
3. DELETE STEP 6.33.5A
4. ADD TO STEP 6.33.6: "RESTORE THE SINKHOLE SYSTEM"
5. DELETE STEP 6.33.7.
6. DELETE STEP 6.12.11 AND SECTION 6.12 OF ATTACHMENT 10.2
7. ADD TO STEP 6.16 HYDRANTS, 729, 730, 732, 733, AND 736

**REASON FOR CHANGE:** 1 TO EFFICIENTLY FLUSH LINE 270-4"

2. SEE 1
3. SEE 1
4. TO PROVIDE FOR SINKHOLE SYSTEM RESTORATION.
5. LINE 270-6" IS FLUSHED IN STEP 6.33.4A
6. FLOOD ELEMENTS DELETED FROM SYSTEM DESIGN. 7. FLUSH KC-02 HYDRANTS.

QC Review (if applicable)     N/A    

**APPROVAL:**

Ed Lash 11 June 86  
TEST SUPV. DATE

Howard Varnado 6-11-86  
LEAD TEST SUPV. DATE

N/A 1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-23  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-11K-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change     

Minor Change X

Submitted by: ED WASIL

Date: 9 JUNE 86

**DESCRIPTION OF CHANGE:**

1. ON PAGE 41 OF 47, ATTACHMENT 10.3, ITEM 1 UNDER SECTION 6-32, CHANGE VALUE A-2301-074 TO 2-2301-074.
2. ON ATTACHMENT 10.2, SECTION 6-32, DELETE FS-27928.
3. IN STEP 6-32.8, DELETE THE SENTENCE "NO MORE THAN TWO STATIONS SIMULTANEOUSLY."
4. IN STEP 6-32.9, DELETE THE SENTENCE "FLUSH IN ONE ROOM AT A TIME."
5. IN STEP 6-32.12, DELETE THE WORD "SIMULTANEOUSLY".

**REASON FOR CHANGE:**

1. TO MAKE ATTACHMENT 10.3 COINCIDE WITH BODY OF PROCEDURE.
2. FLOW INSTRUMENT DELETED FROM SYSTEM DESIGN.
3. NO REASON FOR IMPOSING LIMITATION.
4. NO REASON FOR IMPOSING LIMITATION.
5. NO REASON FOR IMPOSING LIMITATION.

QC review (if applicable) N/A

**APPROVAL:**

Ed Wasil 19 June 86  
TEST SUPV. DATE

Howard Varnak 6-9-86  
LEAD TEST SUPV. DATE

2/8 1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 8628  
Sheet 2 of 2FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE (CONT'D)

6. IN STEP 6.32.13, DELETE THE SENTENCE "FLUSH IN ONE ROOM AT A TIME."
7. IN STEP 6.32.14, DELETE THE WORD "SIMULTANEOUSLY".
8. IN STEP 6.32.6, ADD THE SENTENCE "VERIFY THAT PUMP P4,003, P4-002, P4-005 OR TEMP FLUSHING PUMP IS IN SERVICE!"
9. DELETE SECTIONS 6.7, 6.8, 6.9

REASON FOR CHANGE (CONT'D)

6. NO REASON FOR IMPOSING LIMITATION.
7. NO REASON FOR IMPOSING LIMITATION.
8. TO PROVIDE INSTANT SOURCE FOR FLUSHING WATER.
9. CONSTRUCTION OF THESE VALVE HOUSES HAS BEEN POSTPONED UNTIL AFTER UNIT 1 OPERATION.

Change Request No. 86-27  
Sheet 1 of 1**FLUSH PROCEDURE**  
**CHANGE REQUEST**Procedure Number: 1-1KL-01 Revision: 0  
Procedure Title: Fire Protection Water FlushMajor Change Minor Change Submitted by: Elmer L. PickettDate: 6-8-86**DESCRIPTION OF CHANGE:**

- Step 6.10.4 - Delete the words, "3 at a time to waste until effluent requirements are met" and replace with, "to waste until visually clean."

**REASON FOR CHANGE:**

- This change makes flushing the hydrants in section consistent with the other hydrant flushes in this procedure.

QC Review (if applicable) N/A**APPROVAL:**Elmer L. Pickett 6-8-86  
TEST SUPV. DATEWally A. For 6-8-86  
LEAD TEST SUPV. DATEN/A 1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 8-26  
 Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
 Procedure Title: Fire Protection Water Flush

Major Change        Minor Change   ✓  

Submitted by: E. L. Pickett Date: ~~6-4-86~~ ELP6-5-86

DESCRIPTION OF CHANGE:

1. step 6.11.5 - Delete the sentence "Open valve 759".
2. Attachment 10.1 sheet 16 - Delete valve 759
3. Attachment 10.3 sheet 3 (Piping modifications) - Delete valves 754, 755, 756, 757.

REASON FOR CHANGE:

1. It is not possible to get enough flow through the 4" line for effective flushing
2. Value 759 will not be part of the flow path 6.11.6
3. Valves are not to be removed since there is no piping downstream of them.

QC Review (if applicable)   N/A     1  

APPROVAL:

E. L. Pickett 16-4-86 ELP6586  
 TEST SUPV. DATE

A. H. Ellis 16-5-86  
 LEAD TEST SUPV. DATE

  N/A     1    
 SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-26  
 Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE:

4. Add the following <sup>new</sup> steps:
- 6.11.4a Disconnect flange at strainer F4-602 and remove line 672-4"
  - 6.11.9 Restore line 672-4" Open valve 759 and flush line 672-4" to visual clarity and close valve 759.
5. step 6.11.8. - modify this step to read as follows:  
 " Restore removed internals to filter (F4-602). Open valve 758."
6. Attachment 10.3 Piping Modifications sheet 8 - Add the following new item:
- |                               |         |          |
|-------------------------------|---------|----------|
| 3. Remove/Restore line 672-4" | Removed | Restored |
|-------------------------------|---------|----------|

REASON FOR CHANGE

5. Line 672-4" is going to be restored and valve 759 closed in step 6.11.9.
6. Line 672-4" is to be removed for step 6.11.6.
- Continuation of Reason number 3. This change should have been completed in CR 86-25.

Change Request No. 56-25  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change      Minor Change X

Submitted by: G. VAN GELDER Date: 6-2-86

DESCRIPTION OF CHANGE: 1. 6.6.5 DELETE THE OPENING OF "VALVE 751."  
2. 6.6.7 - DELETE VALVES A-2301-754, A-2301-755, A-2301-756  
3. 6.6.7A ADD "FLUSH THE FOLLOWING TEMPORARY ISOLATION VALVES TO WASTE UNTIL VISUALLY CLEAN"

REASON FOR CHANGE: #1. THIS VALVE (4") 751 WOULD NOT PROVIDE SUFFICIENT FLOW TO PROPERLY FLUSH LINE.  
2. VISUAL INSPECTION OF THE THREE VALVES IS ALL THAT IS NEEDED AS THERE IS NO FIRE PROTECTION VALVE MOUNTED ON THESE VALVES.

QC Review (if applicable) NA 1

APPROVAL:

J. Van Gelder 16-2-86  
TEST SUPV. DATE  
H. Van der 16-2-86  
LEAD TEST SUPV. DATE  
NA 16-2-86  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86 → 5  
Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

DESCRIPTION OF CHANGE (Continuation Sheet)

6.6.7.a

FLUSH THE FOLLOWING TEMPORARY ISOLATION VALVES TO WASTE UNTIL VISUALLY CLEAN.

A-2301-754

\_\_\_\_\_ 1 \_\_\_\_\_

A-2301-755

\_\_\_\_\_ 1 \_\_\_\_\_

A-2301-756

\_\_\_\_\_ 1 \_\_\_\_\_

FOR INFORMATION ONLY



Change Request No. 86-24  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-KC-01 Revision: 0  
Procedure Title: Fire Protection Water Flush

Major Change      Minor Change X

Submitted by: J. Derryberry Date: 5-31-86

DESCRIPTION OF CHANGE: <sup>1</sup> Add new section to 10.1 value line up between 6.7 and 6.8 labeled 6.7.a see continuation sheet. #1 insert copy of continuation sheet in section 10.1 after page 13 of 49  
#2 Add new section to body of procedure between 6.7 and 6.8 labeled:  
6.7.a "Flush lines 700-12" and 667-12" to waste until effluent meets requirements. \_\_\_\_\_  
6.7.b Open valves 779, 774, 660, 799, 650 \_\_\_\_\_

REASON FOR CHANGE: To enable flushing of (2) two sections of yard loop that were not identified.

QC Review (if applicable) NA \_\_\_\_\_

APPROVAL:

[Signature] 15-31-86  
TEST SUPV. DATE

Stephen M Hall 15-31-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-24  
 Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

Required Position

Value Number  
 CX4DB173-2  
 CX4DB173-6

Value Description  
 section 6.7.a  
 High Voltage Switch yard and Line 667-12"

Value Number	Value Description	Position	Required Position
779	Line 656-12" PIV	CL	1
774	Line 656-12" PIV	CL	1
660	Line 515-12" PIV	CL	1
799	Line 515-12" PIV	CL	1
650	Line 515-12" PIV	CL	1
825	Line 700-12" PIV	O	1
860	Line 700-12" PIV	O	1
868	Line 700-12" PIV	O	1
826	Line 700-12" PIV	O	1
791	Line 667-12" PIV	O	1
789	Line 667-12" PIV	O	1
787	Line 667-12" PIV	O	1
786	Line 667-12" PIV	O	1
804	Line 667-12" PIV	O	1
793	Line 667-12" PIV	O	1

FIGURE 2 (2 of 2)

Change Request No. 86-23  
 Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-11C-01 Revision: 0  
 Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change   ✓  

Submitted by: J. CHAWLA Date: 5-27-86

DESCRIPTION OF CHANGE: 1. Step 6.23.7 - Add the following line for flushing hose station R4-069  
 054 - 2 1/2" /

2. Delete the following Vent/Drain Valves
- |                 |                     |
|-----------------|---------------------|
| a. step 6.25.15 | X-402, X-403        |
| b. step 6.23.8  | X-096, X-124, X-140 |
| c. step 6.27.15 | X-348, X-349        |

REASON FOR CHANGE: 1. This hose station was inadvertently missed out.  
 2. Valves X-402, 403, 096, 124 do not exist while X-140 is a vent valve on U-2 piping. Valves X-348 and X-349 will be flushed under step 6.33.5B (See item 4 of this CR)

QC Review (if applicable) NA /

APPROVAL:

J. Chawla / 5-27-86  
 TEST SUPV. DATE  
Howard Parnold / 5-27-86  
 LEAD TEST SUPV. DATE  
NA /  
 SUPERINTENDENT OF ENGINEERING DATE  
 LIAISON



Change Request No. 86-22  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change      Minor Change   ✓  

Submitted by: K Y Manji Date: 5/25/86

DESCRIPTION OF CHANGE:

1. Step 6.237 : Delete FHS line 311.2 1/2"
2. Attachment 10.1 : Need to add Sprinkler S75 150 valve <sup>168</sup> for S75 062 in closed pos
3. Change attachment 10.1 for valves 278 & 277 & 279 ~~to~~ read closed
4. delete valve 188 from attachment 10.1
5. Delete X-400 from valve line up attachment 10.1 because not part of flow path 6.235

REASON FOR CHANGE:

1. Does not exist
2. The line is part of the flush path 6.235
3. For flush path 6.235, Need these valves to be closed
4. Valve 14-188 is not an 150 valve. It is a line valve for level A, Control Bldg

QC Review (if applicable) N/A 1

APPROVAL:

Kam Y Manji 1 5/25/86  
TEST SUPV. DATE

Howard Venable 1 5-25-86  
LEAD TEST SUPV. DATE

N/A 1  
SUPERINTENDENT OF ENGINEERING DATE  
LIAISON

Change Request No. 86-22  
Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

Description of change:

Reason for change:

5. X-400 will not be a valve line-up for flow  
path 6 23 5



Change Request No. 86-21  
 Sheet 2 of 24 the 5/22/86

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE

11. In steps listed below, delete statements imposing limitations on flushing hose stations and sprinkler systems.

STEP #	statement to be deleted
6-23-7	No more than 2 stations simultaneously
6-23-16	flush no more than two hose stations simultaneously
6-25-12	Not more than two hoses simultaneously
6-23-10,	Flush in one room at a time
6-27-9	Flush in one room at a time
6-28-7	— Do — —
6-29-8	— Do — —

12. Delete flush P&ID ~~sheet 14~~ FS1-1KC-01 Rev 0  
 the 5/22/86  
 and add FS1-1KC-01 Rev 1 as sheet 14  
 (copy attached)

13. step 6-24-10 — Delete this step

14. In step 6-29-7 delete line 056-2 1/2"

FIGURE 2 (2 of 2)



Change Request No. 86-21  
Sheet 3 of 34 ~~the~~  
5/22/86

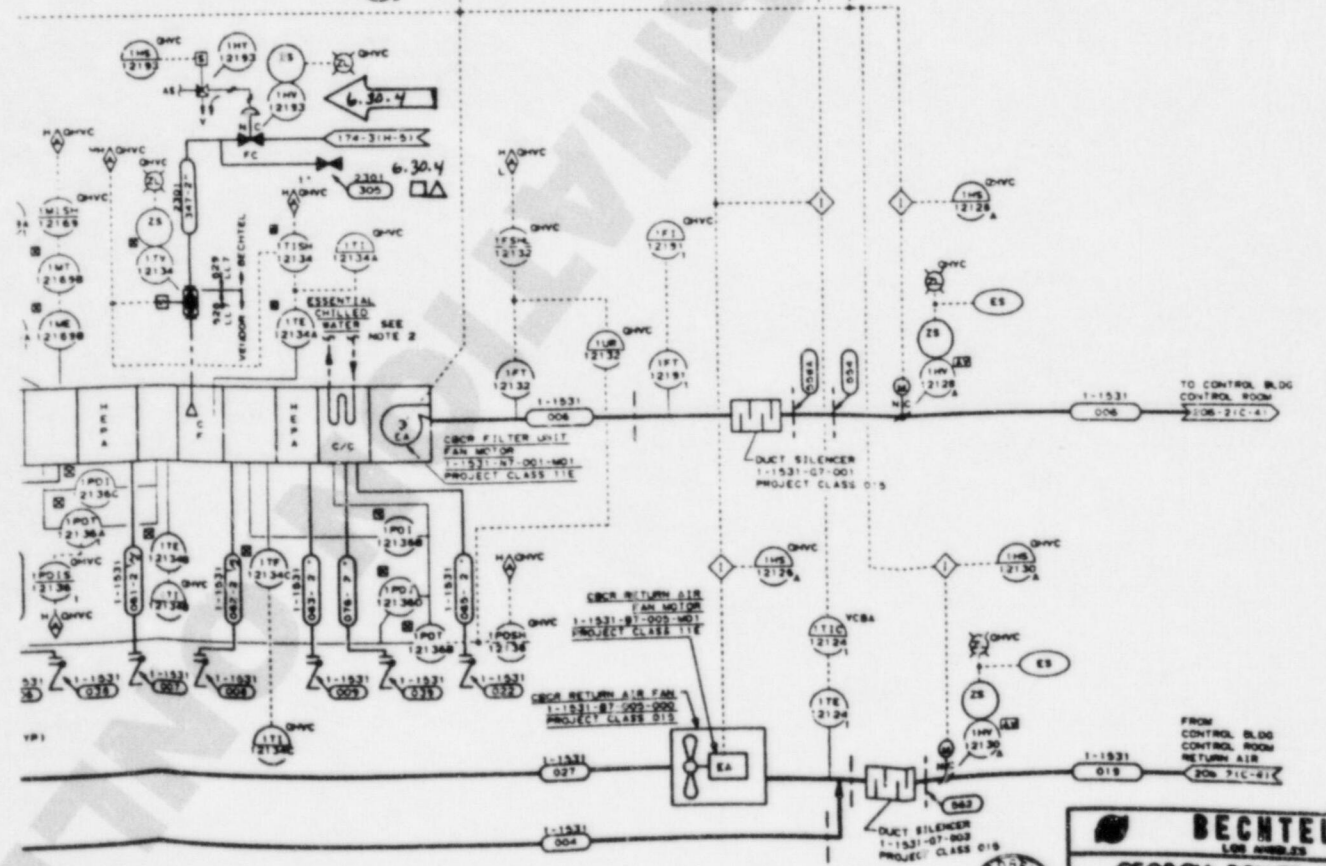
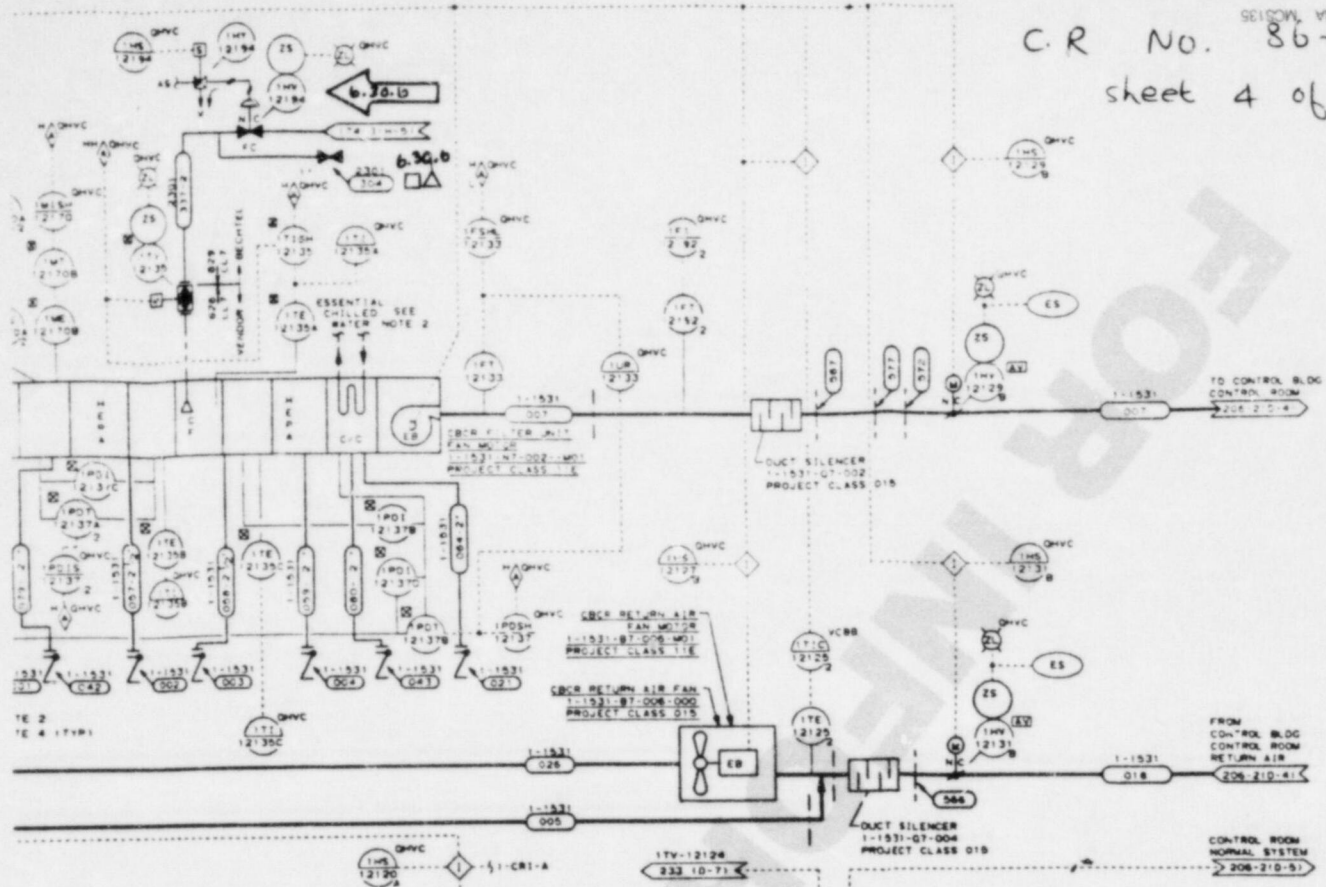
FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

REASON FOR CHANGE

11. There is no reason for imposing these limitations
12. Flush drawing FSI-1KC-01 Rev 0 is based on Unit 2 drawing AX4DB206-1 Rev 10, Flush drawing FSI-1KC-01 Rev 1 is based on Unit 1 drawing AX4DB206-3 Rev 12 which should have been used in the first place.
13. ~~These~~ values x-126 and x-127 do not exist  
~~the~~  
5/22/86
14. This line, along with its associated hose station, does not exist

C.R No. 86-21  
sheet 4 of 4



**BECHTEL**  
LISE 4000-23  
**GEORGIA POWER COMPANY**  
**AVIN W. VOGTLE NUCLEAR PLANT**  
Fire Protection  
Water system flush

NO. 1	SEE MICROFILM FOR SIGNATURES	REVISION AND RELEASE	NO. 2	SEE MICROFILM FOR SIGNATURES
NO. 2	SEE MICROFILM FOR SIGNATURES	REVISION AND RELEASE FOR CONSTRUCTION	NO. 3	SEE MICROFILM FOR SIGNATURES
NO. 3	SEE MICROFILM FOR SIGNATURES	INCORPORATED 206-3 25 & 27	NO. 4	SEE MICROFILM FOR SIGNATURES
NO. 4	SEE MICROFILM FOR SIGNATURES	ISSUED FOR CONSTRUCTION	NO. 5	SEE MICROFILM FOR SIGNATURES



Change Request No. 86-19  
Sheet 1 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1K01 Revision: 0  
Procedure Title: \_\_\_\_\_

Major Change \_\_\_\_\_ Minor Change ✓

Submitted by: J. Chauha Date: 5-15-86

DESCRIPTION OF CHANGE: 1. step 6.29.5 - Delete the sentence 'close valve 213'  
2. step 6.29.6 - Modify this step to read as follows  
'Open temporary isolation valve at valve A-213 and flush line 340-6" to waste until effluent meets requirements. close temporary isolation valve'

REASON FOR CHANGE: 1,2) The piping downstream of valve 213 belongs to construction at the present time. Hence the flush sample for line 340-6" has to be checked at valve A-213 instead of valve 2-210. The flush mod

QC Review (if applicable) \_\_\_\_\_ / \_\_\_\_\_

APPROVAL:

J. Chauha / 5-15-86  
TEST SUPV. DATE

Howard Barnade / 5-15-86  
LEAD TEST SUPV. DATE

\_\_\_\_\_/\_\_\_\_\_  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 86-19  
Sheet 2 of 4FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE3. Attachment 10-3 - Piping Modifications

In section 6.29 item 1, delete valve A-2301-04-273 (added by CR # 86-17) and add valve 'A-2301-213' in its place.

4. Attachment 10.1

a) On sheet 40, change the line for valve A-2301-213 to read as follows.

<u>Valve #</u>	<u>Valve Description</u>	<u>Required Position</u>
A-2301-213	line 340-6" Iso. (Mod)	CL /

b) Delete the entire line for valve 2-2310-210

5. step 6.22.4 - change this step to read as follows

'Disconnect flanged connection at the Upstream side of valve TV-12654. Install a blind flange on the valve and a flush mod on line 235-1/2" Open, HV-12985 and flush line 235-1/2" to waste until effluent meets requirements.'

6. step 6.22.5 - change this step to read as follows

'close valve HV-12985. Remove blind flange and flush mod and restore the flanged connection at valve TV-12654.'

FIGURE 2 (2 of 2)

Change Request No. 86-19  
Sheet 3 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE

7. step 6.22.6 - change this step to read as follows

'Disconnect flanged connection at the upstream side of valve TV-12655. Install a blind flange on the valve and a flush mod. on line 236-1 1/2" Open valve HV-12987 and flush line 236-1 1/2" to waste until effluent meets requirements.'

8. step 6.22.7 - change this step to read as follows

'close valve HV-12987. Remove blind flange and flush mod and restore the flanged connection at valve TV-12655.'

9. step 6.22.9 Delete this step

REASON FOR CHANGE

2. (contd.)

at valve A-213 will be closed in the initial valve line up (see change #4 of this CR)

3. valve A-2301-04-273 was duplicated by CR#86-17 valve A-2301-213 is a new mod. added in this CR

4. Mod at 2-2310-210 is not required. The valve line up for line 340-6" ends at the mod at valve A-213.

FIGURE 2 (2 of 2)

Change Request No. 86-19  
Sheet 4 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

REASON FOR CHANGE

Items 5, 6, 7, 8 - The discharge piping from drains 319 and 320 is welded to the floor drain system piping. Hence the sample points for steps 6.22.4 and 6.22.6 have been moved to <sup>the 5/15/86</sup> ~~a~~ more convenient/practical locations

9. The containment building fire protection system needs to be left in service after the completion of flushes.

FIGURE 2 (2 of 2)





Change Request No. 86-18  
 Sheet 2 of 3

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

(Continuation Sheet)

DESCRIPTION OF CHANGE

4. Step G.21.6 - Add the following lines to be flushed
- 448 - 2 1/2"
  - 449 - 2 1/2"
  - 450 - 2 1/2"
  - 451 - 2 1/2"

5. Attachment 10.3

a) In Piping Modifications section, add the following " section 6.21 Containment building

1. Remove/Restore the following valves. Install 1" flush adapters with temporary line to waste. Temporary line to have an in-line valve and a sampling connection

- PSV - 27926
- PSV - 28002
- PSV - 28003
- PSV - 27931

Remove Value	Restore Value
/	/
/	/
/	/
/	/ "

FIGURE 2 (2 of 2)

Change Request No. 86-18  
Sheet 3 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE

5 b. Delete item # 1 in Attachment 10-3 - Flushing modifications for Section 6-21

6. Step 6.36.25 — Delete valve 548

7. In step 6.21.6 delete the sentence 'No more than two stations Simultaneously'

REASON FOR CHANGE

2 (contd.)

can be flushed after line 031-6" has been flushed.

3. Drain valve X-365 is on line 366-6" which will not be flushed. Valves X-322, X-490 and X-491 were inadvertently missed out.

4. These lines were missed out.

5a Attachment 10.3 should correspond to procedure step 6.21.7

5b. The sprinkler systems have been deleted. See change no. 1

6. Valve 548 was not moded for flushing since Sys. 520 is a wet sprinkler system.

7. There is no reason for imposing this limitation.

FIGURE 2 (2 of 2)

Change Request No 86-17  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change   ✓  

Submitted by: Steve M. Douglas Date: 4/20/86

DESCRIPTION OF CHANGE: (1) STEP 6.24.5; DELETE "269-2 1/2"  
(DIESEL GEN BLDG.)"  
(2) STEP 6.24.7: DELETE "276-2 1/2"  
(3) STEP 6.24.6: REVISE "FLUSH LINE 268-4" THROUGH.. TO READ  
"FLUSH LINE 270-6" THROUGH..  
(4) STEP 6.24.8: REVISE "FLUSH LINE 277-4" THROUGH... TO READ  
"FLUSH LINE 274-6" THROUGH...

REASON FOR CHANGE: (1) AND (2) LINES (FHS) 269-2 1/2" + 276-2 1/2"  
ARE FLUSHED IN STEP 6.31.9 UNDER DIESEL GENERATOR  
BUILDING.

(3)+(4) TO ALLOW FLUSHING OF SPRINKLER SYS. 029 + 030 THROUGH DIESEL GEN.  
SIDE RATHER THAN CONTROL BLDG WHICH IS NOT FLUSHED.

QC Review (if applicable) N/A 1

APPROVAL:

Steve M. Douglas 4/20/86  
TEST SUPV. DATE

Howard Comadore 4-21-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT DATE  
OF ENGINEERING  
LIAISON

FIGURE 2 (1 of 2)

Change Request No. 86-17  
Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

Step 6.23. CONTROL BUILDING LEVEL B.

Add steps to read as follows:

6.23.6 A. Close valve 072 and open valve  
277 to flush line 268-4" through valve  
101 until effluent meets requirements.

6.23.6 B. Close valve 277 and open valve 278.  
Flush line 277-4" through valve 101 until  
effluent meets requirements.

6.23.6 C. Open valves <sup>072 VAL</sup>~~072~~ and <sup>ALM 156-TITANUS</sup>~~077~~.

REASON: TO FLUSH LINES 268-4" & 277-4".  
Attachment 10.3. TEMPORARY MODIFICATION STATUS

Section 6.29 Control Bldg. Level 3

Add valve "A-2301-UA-273" under  
item 1 to perform flushing mod.

REASON: NEEDED TO FLUSH LINE 072-6" THROUGH  
THIS VALVE PER STEP 6.29.5 OF PROCEDURE.

FIGURE 2 (2 of 2)

Change Request No. 86-16  
Sheet 1 of 3

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change   ✓  

Submitted by: Vishnu Lakshmi Date: 4-16-86

DESCRIPTION OF CHANGE: <sup>scp</sup> 6.36.19: Delete 'in place of' and add 'to' in its place. Delete 'valves' and add 'system' in its place.

(2) Step 6.36.20: Delete 'from the four hoses----- and 523'. Add, 'through sprinkler systems 511, 512, & 513'.

(3) Step 6.36.21: Delete 'Restore----- and 514.' Add, 'Flush Lines 680-4', '680-11' and '681-2' through mod. upstream valves TV-12872

REASON FOR CHANGE: (1) To flush the sprinkler lines inside battery room through sprinkler heads.  
(2) To flush the sprinkler pipes rather than through isolation valves only.  
(3) These isolation valves are not required to be modified.

QC Review (if applicable) N/A 1

APPROVAL:

[Signature] 4-16-86  
 TEST SUPV. DATE  
[Signature] 4-16-86  
 LEAD TEST SUPV. DATE  
[Signature] 1  
 SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

and TV-13204."

(4) Attachment 10.3. TEMPORARY MODIFICATION STATUS.  
Section 6.36.

(a) Items 2 and 3: Delete these items entirely.

(b) Item 4: Delete Flushing Mod. as written, entirely  
and add as follows:

Attach Flush-Mod. on  
lines upstream their  
respective isolation valve

Flus. Mod.  
Installed

Flush Mod Removed  
and lines restored

Line 680-1", valve TV-12892

\_\_\_\_\_ / \_\_\_\_\_ /

Line 681-2", valve TV-13204

\_\_\_\_\_ / \_\_\_\_\_ /

(DWG. 1X4DB 229-3)

(5) Step 6.24.5: Delete, 'Open valve 094 ----- valve 114? Add,  
'Verify Open valve 114 and close valve 277?'

(6) Step 6.24.7: Delete, 'Close valve 096. Open valve 278' and  
add, 'Verify valve 096 open and valve 278 close.'

(7) Step 6.24.8. <sup>6.17.11</sup> <sub>2/16/86</sub> Delete, 'Attach hoses ----- remainder of line  
268-4' and add, 'Flush line 268-4" through sprinklers-----'

(8) <sup>6.17.11</sup> <sub>2/16/86</sub>

FIGURE 2 (2 of 2)

Change Request No. 66-16  
Sheet 3 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

(8) Step 6.24.8. Delete, "Attach hoses - - - - - remainder of line 277-4" and add, "Flush line 277-4" through Sprinklers - - - - -"

(9) Step 6.24.9. Delete, ~~Open~~ <sup>Verify</sup> ~~also~~ this step.

Reasons (Cont'd)

(4) To allow flushing lines up to Charcoal Filters

(5) & (6): To allow flushing of lines 268-4" & 277-4" and Fire hose cabinets in Electric Tunnels from Diesel Gen. Building side, rather than from Control Bldg. which is not flushed.

(7) & (8): To allow flushing of sprinkler piping.

(9): These steps not required, as these valves are verified open in previous step.

FIGURE 2 (2 of 2)

Change Request No. 86-15  
Sheet 1 of 1

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change   ✓  

Submitted by: Vishnunder Varma Date: 4-12-86

**DESCRIPTION OF CHANGE:**

- ④ Attachment 10.3: Temporary Modification Status for section 6.36 Turbine Building. (Sheet 13 of 47)
- ① Delete valve '548' and add valve '533' instead.
- ② Re-restore internal safety valve 534 to stop leakage from the valve.

**REASON FOR CHANGE:**

(A) Typographical Error: Valve 548 is isolation for Wet Pipe System, which doesn't require modification where as valve '533' is isolation to Deluge System, which need flush-modification. ② Restoration appears to be not done correctly.

QC Review (if applicable) N/A 1

**APPROVAL:**

V. Varma 14-12-86  
TEST SUPV. DATE  
K. S. Srinivasan 4/12/86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE



Change Request No 86-14  
Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change      Minor Change

Submitted by: ER Wood Date: 4/1/86

DESCRIPTION OF CHANGE: ADD A NEW NOTE AND PRECAUTION TO READ:  
" 4.16 FLUSHING OF SPRINKLER SYSTEMS SHALL BE DOCUMENTED IN THE FLUSH LOG. A SIMPLE, ONE-LINE SKETCH OF THE SPRINKLER SYSTEM WILL BE MADE IN THE LOG. EACH SPRINKLER SYSTEM FLOW PATH WILL BE SEQUENTIALLY NUMBERED ON THE SKETCH. SYSTEM FLUSH MODIFICATION INSTALLATION, FLUSHING AND RESTORATION WILL BE DOCUMENTED IN THE FLUSH LOG PER SUM 12-B. AS EACH SPRINKLER SYSTEM FLOW PATH IS SUCCESSFULLY FLUSHED, THE TEST SUPERVISOR AND QC INSPECTOR SHALL SIGN THEIR NAMES AND DATE ADJACENT TO THE FLOW PATH NUMBER ON THE FLUSH LOG SPRINKLER SYSTEM SKETCH. WHEN THE FINAL SPRINKLER SYSTEM FLOW PATH IS FLUSHED, THE TEST SUPERVISOR AND QC INSPECTOR SHALL SIGN OFF THE LAST POINT ON THE FLUSH LOG SKETCH AND SHALL SIGN OFF THE SPRINKLER SYSTEM AS BEING FLUSHED IN THE FLUSH PROCEDURE PROPER."

REASON FOR CHANGE:

TO DESCRIBE SPRINKLER SYSTEM FLUSHING AND DOCUMENTATION THEREOF.

QC Review (if applicable)

ER Wood 4-1-86

APPROVAL:

ER Wood 4/1/86  
TEST SUPV. DATE

Edward Naindul 4-1-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No 86-13  
Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1kc-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH.

Major Change       

Minor Change   /  

Submitted by: Vishnu Lakshmi

Date: 3-31-86

DESCRIPTION OF CHANGE: Step 6.13.6. Add a step as follows:  
6.13.6 A: Disconnect strainer downstream valve 1-2301-04-220  
and connect a flush-mod. on the valve. Flush  
line 096-4" to waste until effluent meets requirement.

Valve 220 restored

[NOTE: This line is header for sprinklers RD78, R-D79 & R+D100]

REASON FOR CHANGE: To flush 4" line prior to flushing 2 1/2" line  
through FHS # 099.

QC Review (if applicable) N/A 1

APPROVAL:

[Signature] 1 3/31/86  
TEST SUPV. DATE

Howard Ramadue 1 3-31-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 86-12  
Sheet 1 of 4

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KE-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change      Minor Change   ✓  

Submitted by: Vishnunder Landry Date: 3-28-86

DESCRIPTION OF CHANGE: (i) Add following items in Attachment 10.3, TEMPORARY/FLUSHING MODIFICATION STATUS for section 6.31.

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
2. Install flush adapter to the strainer flushing valves.	Adapter Connected	Valves Restored
1-2301-S4-029W	_____	_____
1-2301-S4-030W	_____	_____

**REASON FOR CHANGE:**

(i) To flush Five Water Headers in D.G. Building through larger pipes prior to flushing the sprinklers.

QC Review (if applicable) N/A 1

**APPROVAL:**

[Signature] 13-28-86  
TEST SUPV. DATE

[Signature] 13-28-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-12  
 Sheet 2 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

3. Install flush adapter to Preaction System Main Drain Valves.	Adapter Connected	Adapter Removed
1-2301-S4-031A	_____ / _____	_____ / _____
1-2301-S4-032A	_____ / _____	_____ / _____

(ii) Section 6.31.5: Change the section to read as follows:

- " Open valves 153 and 154 and flush following lines to waste until effluent meets requirements.

272-6" through Main drain Valve  
 1-2301-S4-032A \_\_\_\_\_ / \_\_\_\_\_

274-6" through Strainer flushing valve  
 1-2301-S4-030W " \_\_\_\_\_ / \_\_\_\_\_

(iii) Section 6.31.6 - Delete 'valves' after 'sprinkler'.

(iv) Section 6.31.7. Change the section to read as follows:

- " Open valves 147 and 148 and flush following lines to waste until effluent meets requirements.

122-6" through Main Drain Valve  
 1-2301-S4-031A \_\_\_\_\_ / \_\_\_\_\_

270-6" through Strainer flushing Valve  
 1-2301-S4-029W \_\_\_\_\_ / \_\_\_\_\_

FIGURE 2 (2 of 2)

Change Request No. 86-12  
Sheet 3 of 4

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

(Continuation Sheet)

(V) Section 6.31.8 - Delete, "valves" after "sprinkler".  
Delete; "open valves 096 and 072"  
*VAI 3/28/86*

(VI) Add following steps to section 6.31:  
6.31.9: Flush following lines through their respective Fire Hose stations until effluent meets requirements.

- 276-2 1/2" \_\_\_\_\_ /
- 269-2 1/2" \_\_\_\_\_ /

(VII) Remove the strainer basket from following strainers, clean them and reinstall them.

- 1-2301-S4-029V \_\_\_\_\_ /
- 1-230-S4-030V \_\_\_\_\_ /

REASON FOR CHANGE

(i) To flush FW Header prior to flushing sprinklers and  
(ii) Fire Hose cabinets.  
*IV & V*

(vi) To flush lines going to fire hose cabinets  
(vii) To clean the Fire Main line strainer baskets, which may have collected debris during flush.

Change Request No. 85-12  
Sheet 4 of 4

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

(Continuation Sheet)

(viii) Section 6.35 Add following items in Attachment 10.3,  
TEMPORARY MODIFICATION STATUS for this section.

<u>MODIFICATION/RESTORATION</u>	<u>STATUS BEFORE FLUSHING</u>	<u>STATUS AFTER FLUSHING</u>
Remove/Restore valve internals and install flushing adapter with temporary live to waste. Temp. line to have in-line valve and a sampling connection	Remove Internals	Restore Internals
1-2301-U4-149	1	1
1-2301-U4-152	1	1
1-2301-U4-219	1	1

(ix) Section 6.35 Add a step 6.35.4A to read as follows.

• Open temporary valve installed on following lines and flush the lines to waste until effluents meet requirements.

113-6"	1
117-6"	1
120-6"	1

REASON FOR CHANGE

(viii) & (ix) : To clean 6" FW Headers prior to flushing the Sprinklers in Aux Feed Water Pump House.

FIGURE 2 (2 of 2)



Change Request No. 86-11  
Sheet 2 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

adapter with temporary  
line to waste. Temporary  
line to have in-line  
valve and a sampling line  
(DRG: 1X4DB174-2)

Valve A-2301-U4-389

(ii) Step 6.13.5: Divide this step into two substeps as follows:

6.13.5.1 Open Valve on Temp. Mod. at  
Valve 389 and flush line 077-4"  
to waste until effluent meets  
requirements.

6.13.5.2 Flush following lines through  
respective fire hose stations until  
effluent meets requirements.  
Flush no more than two fire  
hose stations at a time.

(iii) Step 6.15.8: Change the step to read as follows,

"Disconnect pipes 195-1/2", 196-1/2", 197-1/2"  
and 198-1/2" at union downstream  
Valves A-2301-U4-141, 143, 143 and 144  
respectively and install flushing  
adapter with ball valve on each line.

FIGURE 2 (2 of 2)



Change Request No. 86-11  
Sheet 3 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

- (iv) Step 6.15.9: Delete "Restore valves 141, 143, 142, and 144," and add, "Restore lines 195-1/2", 196-1/2", 197-1/2", and 198-1/2" " instead.
- (v) Step 6.16.6: Delete lines 014-2 1/2" and 088-4" from the list.

FIGURE 2 (2 of 2)

Change Request No. 86-10  
Sheet 1 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change        ✓

Submitted by: J. CHAWLA Date: 3-13-86

DESCRIPTION OF CHANGE:

1. Add the following step in Attachment 10.3 under Flushing Modifications for Section 6.36-Turbine Bldg
  6. Remove blind flange at the end of the valve 1-2301-827. Attach a hose and route to waste. After flushing line A-2301-703-6" at step 6.36.27,

REASON FOR CHANGE:

1. Removal and reinstallation of the flange should be controlled by the procedure.
2. ~~Type Error~~ <sup>file 3/13/86</sup>. This step flushes line A-203-2 1/2" which branches

QC Review (if applicable) N/A 1

APPROVAL:

[Signature] 3/13/86  
TEST SUPV. DATE

[Signature] 3/14/86 3/17/86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 86-10  
 Sheet 2 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

Modification/Restoration	Status before Flushing	Status After Flushing
remove hose and reinstall blind flange	Remove Flange /	Reinstall Flange /

2. Delete line # 088-4" in step 6.16.6 and add line # A203-2 1/2" in its place

3. Step 6.16.6 — Delete the following lines  
 411"-2 1/2", 410-2 1/2", 409-2 1/2", 408-2 1/2"

4. In attachment 10.3 (sheet # 7) modify 'section 6.8 High voltage switchyard Valve House No. 3' to 'section 6.9 High voltage Switchyard Valve House No. 4'

5. In attachment 10.3, under Piping modifications for sections and steps, listed below, modify the ~~last~~   
 file 3/13/86

FIGURE 2 (2 of 2)

Change Request No. 86-10  
Sheet 3 of 3

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

last sentence to read as follows

'Line to have an in-line valve and a sampling connection'

- i) step 1 in sections 6.6, 6.7, 6.8, 6.9, 6.11, 6.15, 6.25, 6.27, 6.28, 6.29, 6.36
- ii) step 3 in sections 6.6, 6.8, 6.9

Do not delete dwg references and valve #s listed in these steps.

REASON FOR CHANGE

3. <sup>off line 088-4"</sup> These lines, along with corresponding hose stations, are scoped under the Radwaste system which is to be flushed by the Westinghouse Corp.

4. Typo Errors

5. The size of the sampling connection will be decided in the field.

FIGURE 2 (2 of 2)

Change Request No. 86-9  
Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-KC-01 Revision: 0  
Procedure Title: Fire Protection Water

Major Change        Minor Change   ✓  

Submitted by: J. CHAWLA / V. Pandey Date: 3-12-86

DESCRIPTION OF CHANGE: Valve lineup (ATTACHMENT 10.1):

- (i) change required position of valve 1-2301-357 from 'O' to 'CL'
- (ii) change required position of valve 2-2301-U4-357 from 'O' to 'CL'

REASON FOR CHANGE:

- (i) Valve 1-2301-357 is the boundary valve for KC-07 subsystem which does not belong to Nuclear Operations Group
- (ii) Same as above.

QC Review (if applicable) N/A 1

APPROVAL:

Ray J. Smith 13/12/86  
TEST SUPV. DATE

Robert A. Lloyd 13/12/86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-8  
Sheet 1 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change   ✓  

Submitted by: J. CHAWLA Date: 3-7-86

DESCRIPTION OF CHANGE:

- Delete existing step 6.17.5 and add new step 6.17.5 to read as follows  
'Open temporary isolation valve at A-2301-123. Flush line 079-6" to waste from valve 123 until effluent meets requirements

REASON FOR CHANGE:

- It is not necessary to open 2-2301-135 to flush line 079-6" at step 6.17.5

QC Review (if applicable) N/A 1

APPROVAL:

[Signature] 3/7/86  
TEST SUPV. DATE  
[Signature] 3/7/86  
LEAD TEST SUPV. DATE  
[Signature]

1                
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-8  
Sheet 2 of 4

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE

2. Delete section 6-3 in its entirety (including all steps and associated sign offs) in
  - a. Main Body of the procedure
  - b. Attachment 10.1 (Initial Value lineup)
  - c. Attachment 10.3 (Temporary Modification) Status

3.a) In attachment 10.1 (Initial Value lineup) change the required positions of the following values.

<u>Value #</u>	<u>Required Position</u>	<u>Section #</u>
A-2301-123 (mod.)	CL	6-17
268	O	6-17
160	CL	6-21
A-2301-101 (mod.)	CL	6-23
A-2301-274 (mod.)	CL	6-25

FIGURE 2 (2 of 2)

Change Request No. 86-8  
Sheet 3 of 4FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

## DESCRIPTION OF CHANGE

<u>Value #</u>	<u>Required Position</u>	<u>Section #</u>
A-2301-103 (Mod.)	CL	6-32
A-2301-292 (Mod.)	CL	↓
A-2301-298 (Mod.)	CL	
2-2301-74	CL	

3b) In attachment 10.1, delete valve A-2301-385 in section 6-25 and add it in section 6-23 as follows

<u>Valve Number</u>	<u>Valve Description</u>	<u>Required Position</u>
A-2301-385	Line 054-2 1/2" (Mod.)	CL /

4. Add vent valve X-272 to the list of values being flushed at step 6-17-8. change 'close two valves' to 'close three valves'.
5. Add valves X-138, X-139, X-413 to the list of values being flushed at step 6-18-8

FIGURE 2 (2 of 2)



Change Request No. 86-8  
Sheet 4 of 4FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

REASON FOR CHANGE

2. Flushing for Radwaste Solidification building is to be done by Westinghouse Corp. utilizing their own procedures.
3. a) Modified valves A-2301-123, 101, 274, 103, 292, 298 and 2-2301-74 will be opened to commence flushes at steps 6.17.5, 6.23.5, 6.25.6, 6.32.6, 6.32.10, 6.32.7 and 6.32.11 respectively.
- Valve 160 isolates Sprinkler System 034, which does not belong to Nuclear Ops group.
- Valve 268, at present, feeds a temporary system which is required to be available for fire suppression.
- 3 b) Valve A-2301-385 will be used during flush step 6.23.9 and hence belongs in section 6.23.
4. Vent valve X-272 was inadvertently missed out.
5. These valves were inadvertently missed out.

FIGURE 2 (2 of 2)

Change Request No. 86-7  
Sheet 1 of 6

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change        Minor Change

Submitted by: Jagdish Chawla Date: 3-6-86

**DESCRIPTION OF CHANGE:**

1. Step G.23.4: Change 'P4-063' to 'P4-003'
2. Step G.19.7: Add 'Remove blind installed at valve TV-12624'
3. Change required position of the isolation valves (for sprinkler systems) listed below. All valves

**REASON FOR CHANGE:**

1. To correct Typographical error
2. To remove blind installed per CR #86-6
3. To isolate Sprinkler systems not turned over to Nuclear Operations

QC Review (if applicable) N/A 1

**APPROVAL:**

E. Vas 3/6/86  
TEST SUPV. DATE

Howard Vannadue 3-6-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 86-7  
Sheet 2 of 6

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

DESCRIPTION OF CHANGE (CONTINUED)

are listed in Attachment 10.1 (Initial Value lineup)

<u>Value #</u>	<u>Required Position</u>	<u>section #</u>
056	CL	6.17 - Aux Bldg level 1 ↓
265	CL	
266	CL	
267	CL	
268	CL	
245	CL	6.16 - Aux Bldg level A ↓
246	CL	
247	CL	
248	CL	
249	CL	
250	CL	
251	CL	
252	CL	
253	CL	
244	CL	
235	CL	6.15 - Aux Bldg level B ↓
236	CL	
237	CL	

FIGURE 2 (2 of 2)

Change Request No. 86-7  
 Sheet 3 of 6

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

<u>Valve #</u>	<u>Required Position</u>	<u>Section #</u>
238	CL	6.15 - Aux Bldg level B ↓
239	CL	
240	CL	
241	CL	
242	CL	
243	CL	
227	CL	6.14 - Aux Bldg level C ↓
228	CL	
229	CL	
230	CL	
232	CL	
233	CL	
234	CL	6.13 - Aux Bldg level D ↓
220	CL	
221	CL	
222	CL	
223	CL	
224	CL	
225	CL	
226	CL	

FIGURE 2 (2 of 2)

Change Request No. 86-7  
 Sheet 4 of 6

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

<u>Valve #</u>	<u>Required Position</u>	<u>Section #</u>
155	CL	6.21 - Containment Bldg ↓
156	CL	
157	CL	
159	CL	
161	CL	
162	CL	
163	CL	
165	CL	
166	CL	
057	CL	6.23 - Control Bldg level B ↓
172	CL	
044	CL	
045	CL	
183	CL	
200	CL	
188	CL	
051	CL	6.24 - Electric Tunnels ↓
148	CL	
154	CL	

FIGURE 2 (2 of 2)

Change Request No. 86-7  
Sheet 5 of 6FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

<u>Valve #</u>	<u>Required Position</u>	<u>section #</u>
038	CL	G-25 - control Bldg level A ↓
041	CL	
193	CL	
184	CL	
182	CL	
190	CL	
191	CL	
192	CL	
189	CL	
043	CL	
A-2301-197	CL	G-27 - control Bldg level 1
039	CL	G-28 - control Bldg level 2 ↓
098	CL	
194	CL	
195	CL	
199	CL	
099	CL	
100	CL	

FIGURE 2 (2 of 2)

Change Request No. 86-7  
Sheet 6 of 6FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

<u>Valve #</u>	<u>Required Position</u>	<u>Section #</u>
178	CL	6-29 - Control Bldg level 3
177	CL	
180	CL	6-29 - Control Bldg level 4
181	CL	
147	CL	6-31 - Diesel Gen. Bldg.
153	CL	
149	CL	6-32 - Fuel Handling Bldg
145	CL	
254	CL	6-33 - Equipment Bldg
149	CL	6-35 - Aux feedwater pump house
219	CL	
152	CL	

FIGURE 2 (2 of 2)

Change Request No. 86-6  
Sheet 1 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: \_\_\_\_\_

Major Change \_\_\_\_\_ Minor Change

Submitted by: Vishnudeo Landey Date: 3-4-86

DESCRIPTION OF CHANGE:

- (i) Step 6.19.4: Delete, 'close' (Valve TV-12625) and add 'Install Blind' at (Valve TV-12625).
- 6.19.5: Add, 'Remove blind at valve TV-12625.'
- (ii) Step 6.19.6: Delete, 'close' (Valve TV-~~12625~~<sup>12624</sup>) and 'Install blind at' (Valve TV-12624).  
*TV 12624*

REASON FOR CHANGE: Trip Valves on FP Lines to Filters are leaking by. In order to flush FP lines, blinds needed at these valves to avoid flooding the filters.

QC Review (if applicable) N/A \_\_\_\_\_

APPROVAL:

V. Landey 31 4/86  
TEST SUPV. DATE

M. D. 1 3-4-86  
LEAD TEST SUPV. DATE

\_\_\_\_\_  
SUPERINTENDENT OF ENGINEERING LIAISON DATE



Change Request No. 86-6  
Sheet 2 of 2

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

- (iii) 6.20.4: Delete 'close' (valve TV-12703) and add,  
'Install blind at' (valve TV-12703).  
6.20.5: Add, 'Remove blind at valve TV-12703.'
- (iv) 6.20.6: Delete, 'close' (valve TV-12696) and add,  
'Install blind at' (valve TV-12696).  
6.20.7: Add, 'Remove blind at valve TV-12696.'
- (v) 6.20.8: Delete, 'close' (valve TV-12689) and add,  
'Install blind at' (valve TV-12689).  
6.20.9: Add, 'Remove blind at valve TV-12689.'

FIGURE 2 (2 of 2)

Change Request No <sup>05</sup> 86  
Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change --- Minor Change X

Submitted by: ED WASIL Date: 3/2/86

DESCRIPTION OF CHANGE:

CHANGE REQUIRED POSITION OF LEVEL 1 AUX BUILDING INITIAL LINEUP FOR SPRINKLER SYSTEMS. (ATTACHMENT 10.1 PAGES 26 AND 27.

VALVE

164  
158  
127  
126  
037

REQUIRED POSITION

C  
C  
C  
C

REASON FOR CHANGE:

SPRINKLER ISOLATIONS MUST BE CLOSED AS THE SYSTEMS ARE ~~NOT~~ <sup>STILL</sup> UNDER CONSTRUCTION  
3/2/86

QC Review (if applicable)

N/A

APPROVAL:

[Signature] 13/2/86  
TEST SUPV. DATE

[Signature] 3-2-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-4  
Sheet 1 of 1FLUSH PROCEDURE  
CHANGE REQUESTProcedure Number: 1-1KE-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSHMajor Change     Minor Change Submitted by: VISHNUDEO PANDEY Date: 2/27/86

DESCRIPTION OF CHANGE: Steps 6.3.4, 6.6.4, 6.7.4, 6.8.4, 6.9.4, 6.10.3, 6.11.4, 6.12.<sup>5</sup>~~4~~, 6.13.4, 6.14.4, 6.15.4, 6.16.4, 6.17.4, 6.18.4, 6.19.3, 6.20.3, <sup>7/21/86</sup> 6.21.5, 6.22.3, 6.23.4, 6.24.4, 6.25.4, 6.26.3, 6.27.4, 6.28.4, 6.29.4, 6.30.3, 6.31.4, 6.33.4, 6.34.4, 6.35.4: Add, 'P4-002, P4-004 <sup>5</sup> or TEMP. FLUSHING PUMP' after 'pump P4-003', in all above stated steps of procedure.

REASON FOR CHANGE: To allow the flush to be performed with either of the pumps.

QC Review (if applicable) N/A

## APPROVAL:

[Signature] / 2/27/86  
TEST SUPV. DATE

[Signature] / 28-86  
LEAD TEST SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

FIGURE 2 (1 of 2)

Change Request No. 86-3  
Sheet 1 of    

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: i-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change     Minor Change   ✓  

Submitted by: Vishwanath Pandey Date: 2-9-86

DESCRIPTION OF CHANGE: (i) Delete 'C-2301-P4-001 and' from NOTE before step 6.1.55 of the procedure.  
(ii) Correct step No. from 6.1.59 to 6.1.56. in change request no 86-2.  
(iii) Delete pumps 'P4-001' from step 6.1.62. Also delete 'open valve 658' from this step.

REASON FOR CHANGE: (i) Only pump C2301-P4-002 will be run to perform this flush.  
(ii) To correct the error and valve tie up.

QC Review (if applicable) N/A        

APPROVAL:

                 
TEST SUPV. DATE

                 
LEAD TEST SUPV. DATE

                 
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 86-2  
 Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
 Procedure Title: FIRE PROTECTION FLUSH

Major Change      Minor Change   ✓  

Submitted by: Vishnudes Pandey Date: 2-8-'86

DESCRIPTION OF CHANGE:

Delete valve C2301-HV-7941 and add valve C2301-U4-704 in its place in flush procedure, and flush diagram. under steps 6.1.59

REASON FOR CHANGE: Valve C2301-HV7941 was a butterfly valve which has been replaced with a gate valve in accordance with CCP-S10016M, which has been assigned a new tag number C2301-U4-704.

QC Review (if applicable) N/A 1

APPROVAL:

[Signature] / 2-8-'86  
 TEST SUPV. DATE

[Signature] / 2-8-'86  
 LEAD TEST SUPV. DATE

1 /       
 SUPERINTENDENT OF ENGINEERING LIAISON DATE



Change Request No. 85-13  
 Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-1KC-01 Revision: 0  
 Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change

Minor Change

Submitted by: ED WASIL

Date: 11/27/85

DESCRIPTION OF CHANGE: 1) CHANGE STEP 6.36.6 TO READ: "6.36.6 CLOSE A-2301-U4-687. FLUSH LINES 536-12", 536-10" AND 696-10" UNTIL EFFLUENT REQUIREMENTS ARE MET. ✓"

2) CHANGE STEP 6.36.7 TO READ: "6.36.7. CLOSE A-2301-U4-686. OPEN A-2301-U4-687. FLUSH LINES 537-10" UNTIL EFFLUENT REQUIREMENTS ARE MET. ✓"

3) CHANGE TEMPORARY MODIFICATION STATUS, ATTACHMENT 10.3, PAGE 13 OF 47 ITEM 2 TO READ: "2. REMOVE/RESTORE BLIND FLANGE ON UNIT 2 SIDE OF VALVE A-2301-U4-687 AND INSTALL 10" TEMPORARY LINE TO WASTE. TEMPORARY LINE TO HAVE IN-LINE VALVE AND A 4" SAMPLING LINE. REMOVE FLANGE RESTORE FLANGE"

REASON FOR CHANGE: TO PROVIDE ADEQUATE FLUSH WATER DEWATERING FLOW PATH FROM THE TURBINE BUILDING.

QC Review (if applicable) 1

APPROVAL:

Ed Wasil 11/27/85  
 TEST SUPV. DATE

J. Klemm 11/27/85  
 FLUSH SUPV. DATE

1  
 SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No 2513  
 Sheet 1 of 1

FLUSH PROCEDURE  
CHANGE REQUEST

Procedure Number: 1-KC-01 Revision: 0  
 Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change  Minor Change

Submitted by: ED WASHIL Date: 24/11/85

DESCRIPTION OF CHANGE: ADD 2.003 STEP 6.4.5 TO READ:  
"6.4.5 FLUSH EACH OF THE BELOW LISTED HOSE CABINETS TO WASTE  
UNTIL EFFLUENT REQUIREMENTS ARE MET.

- A2301R4647 ---
- A2301R4645 ---
- A2301R4646 ---
- A2301R4644 ---

2) CHANGE ATTACHMENT 10.3, SECTION 6.4 TO READ: "ATTACH HOSES WITH  
FLUSH BOX ASSEMBLY TO THE FITTINGS OF THE FOLLOWING HOSE CABINETS.  
HOSES ATTACHED CABINET RESTORED

- A2301R4647 A2301R4646 ---
- A2301R4645 A2301R4644 ---

REASON FOR CHANGE: TO EFFICIENTLY FLUSH THE DEMINERALIZER  
BOILING WATER FIRE SYSTEM.

QC Review (if applicable) 1

APPROVAL:

Ed Washil 24/11/85  
 TEST SUPV. DATE

A. J. Hamer 11/24/85  
 FLUSH SUPV. DATE

1  
 SUPERINTENDENT OF ENGINEERING LIAISON DATE



Change Request No. 85-11  
Sheet 1 of 1

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1K2-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change  Minor Change

Submitted by: ED WASIL Date: 11-19-85

DESCRIPTION OF CHANGE: ADD SENTENCE TO STEP 4.14 TO READ:  
"QC HOLD POINTS ARE NOT IN EFFECT FOR VISUAL FLUSHING  
OF VENT AND DRAIN LINES, INSTRUMENTATION AND  
FIRE HYDRANTS."

REASON FOR CHANGE: TO <sup>Ed 11/19/85</sup> <sub>A</sub> <sup>CLEARIFY</sup> QUALITY CONTROL POLICY IN  
WITNESSING PROOF FLUSHES ASSOCIATED WITH  
"Q" SYSTEMS.

QC Review (if applicable) Shate P. Zygm 11/19/85

APPROVAL:

Ed Wasil 11/19/85  
TEST SUPV. DATE

for [Signature] 11/19/85  
FLUSH SUPV. DATE

1  
SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 85-10  
 Sheet 1 of 1

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KE-01 Revision: 0  
 Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change  Minor Change

Submitted by: ED WASIL Date: 11-18-85

**DESCRIPTION OF CHANGE:**

CHANGE STEP 6.1.19 TO READ:  
 " 6.1.19 START PUMP P4-003 OR P4-005. OPEN VALVES  
 011, 713, 898. CLOSE VALVES 016, 008.

**REASON FOR CHANGE:**

TO ALLOW FIRE WATER SUPPLY FROM EITHER THE  
 NORTH OR SOUTH HEADERS.

QC Review (if applicable) 1

**APPROVAL:**

Ed Wasil / 11-18-85  
 TEST SUPV. DATE

W. A. Madan / 11-18-85  
 FLUSH SUPV. DATE

\_\_\_\_\_/\_\_\_\_\_  
 SUPERINTENDENT OF ENGINEERING LIAISON DATE

Change Request No. 85-9  
Sheet 1 of 1

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change

Minor Change

Submitted by: ED WASIL

Date: 2 JULY 85

DESCRIPTION OF CHANGE:

- ① Change step 6.2.4 TO READ "6.2.4 VERIFY THAT STEPS 6.1.26, 6.1.27.2, 6.1.27.5, 6.1.31, 6.1.34 AND 6.1.37 ARE COMPLETE."
- ② CHANGE STEP 6.2.5 TO READ "6.2.5 START PUMP P4002, P4-003 OR P4-005."

REASON FOR CHANGE: TO EXPEDITE FLUSHING OF FIRE HYDRANTS.

APPROVAL:

Ed Wasil 1 2 July 85  
TEST SUFV. DATE

W. Z. [Signature] 1 7/2/85  
FLUSH SUFV. DATE

1  
HOT FUNCTIONAL DATE  
& S/U TEST SUPT.

Change Request No. 85-8  
Sheet 1 of 3

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change

Minor Change

Submitted by: ED WASIL

Date: 6-28-85

DESCRIPTION OF CHANGE: SEE CONTINUATION SHEET

REASON FOR CHANGE: TO FLUSH LINES 015-10" and 005-1 1/2",  
006-12" without contaminating the South Fire  
Water Storage Tank. ADD ATTACHMENT ~~to~~ <sup>see</sup> 10.4.

APPROVAL:

Ed Wasil 1 6-28-85  
TEST SUPT. DATE

SW Samuel 1 6/28/85  
FLUSH SUPT. DATE

1  
HOT FUNCTIONAL DATE  
& S/U TEST SUPT.

FLUSH PROCEDURE  
CHANGE REQUEST

(Continuation Sheet)

1. Change Step 6.1.19 to read: "6.1.19 Start Pump P4-003 or P4-005. Open valves 011, 713 and 898. Close valves 016, 008, 659 and 652."

2. Change Step 6.1.20 to read: "6.1.20 Flush lines 509-12", 058-10", 008-10" and 015-6" to waste until effluent meets requirements."

3. Change Step 6.1.21 to read: "6.1.21 Flush the factory Fine Pump 001 mini-flow recirc and discharge line 005-1 1/2" as follows:

6.1.21.1 Open valve 016. Flush mini-flow recirc line 022-1" to waste until effluent meets requirements.

6.1.21.2 Close valves 898, 713, 016 and 011.

6.1.21.3 Open valve 008. Flush discharge line 005-1 1/2" until effluent meets requirements.  
Close valve 008."

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

(Continuation Sheet)

4. In note before Step 6.1.55, delete "C-2301-P4-001"
5. Delete Steps 6.1.57, 6.1.60, 6.1.61 and 6.1.63
6. Change Step 6.1.56 to read: "6.1.56 Open valves HV-7933, HV-7941 and O11."
7. Change Step 6.1.58 to read: "6.1.58 Start Pump P4-002."
8. Change Step 6.1.59 to read: "6.1.59 Flush lines 001-16" and 006-12" to waste until effluent meets requirements."
9. Add attached "Attachment 10.4"
10. Add attached "Attachment 10.3, sheet 16a of 47"



ATTACHMENT 10.3

TEMPORARY FLUSHING MODIFICATIONS

CR  
 85-8

DESCRIPTION	STEP	MODIFICATION PERFORMED	STEP	RESTORATION PERFORMED
11. REMOVE PUMP END OF JACKY PUMP 001. CONNECT TEMPORARY FLUSHING HOSE TO LINE 205-1 1/2" FLANGE	6.1.20		6.1.21.3	
12. REMOVE/INSTALL CHECK VALVE 007 INTERNALS	6.1.21		6.1.21.3	
13. DISCONNECT/RESTORE FLANGE JOINING LINES <del>3</del> 015-6" AND 015-10" TO SOUTH FIRE WATER STORAGE TANK AND CONNECT TEMPORARY FLUSHING HOSE- INSTALL 6" BLIND FLANGE AT STORAGE TANK.	6.1.19		6.1.21.3	



Change Request No. 85-7  
Sheet 1 of 2

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change

Minor Change

Submitted by: ED WASIL

Date: 6-24-85

DESCRIPTION OF CHANGE: SEE CONTINUATION SHEET

REASON FOR CHANGE: TO FLUSH LINE 515-12" BETWEEN VALVES  
814 AND 660.

APPROVAL:

Ed Wasil 1 6-24-85  
TEST SUPT. DATE

SW Wason 1 6/24/85  
FLUSH SUPT. DATE

1  
HOT FUNCTIONAL DATE  
& S/U TEST SUPT.

85-7  
Change Request No.  
Sheet 2 of 2**FLUSH PROCEDURE**  
**CHANGE REQUEST**

(Continuation Sheet)

1. CHANGE STEP 6.1.35 TO READ " 6.1.35 OPEN VALVES 779  
AND 660. ————

2. CHANGE STEP 6.1.37 TO READ " 6.1.37 CLOSE VALVE 661  
AND FLUSH EAST HEADER TO WASTE FROM YARD LOOP  
DRAIN CONNECTION UNTIL EFFLUENT MEETS REQUIREMENTS. "  
—————

Change Request No. 85-6  
 Sheet 1 of 1

**FLUSH PROCEDURE**  
**CHANGE REQUEST**

Procedure Number: 1-1KC-01 Revision: 0  
 Procedure Title: FIRE PROTECTION WATER FLUSH

Major Change  Minor Change

Submitted by: ED WASIL Date: 6/18/85

DESCRIPTION OF CHANGE: ADD NEW STEP 4.15 TO READ: "4.15 CLASS D CLEANNESS  
CRITERIA REQUIRES TWO SAMPLES USING FLUSHING CLOTH OR 14 MESH SCREEN/STRAINER.  
PARTICULATE SIZE  $\leq 1/16$  INCH IN ANY DIMENSION, EXCEPT THAT HAIRLIKE SILVERS ( $< 1/16$  INCH THICK)  
ARE PERMISSIBLE UP TO  $1/8$  INCH LONG. SCREENS AND EFFLUENT APPEAR CLEAR EXCEPT CARBON STEEL  
SYSTEM MAY HAVE CONSIDERABLE STAINING FROM RUST. FLUSH CLOTHS/SCREENS SHOW NO VISUAL  
EVIDENCE OF ORGANIC CONTAMINATION. SAMPLE DURATION = 11 MINUTES =  $\frac{(DPP)^2}{DSP} \times 3$  (minimum 3  
MINUTES) WHERE DSP = DIAMETER SAMPLE PIPE AND DPP = DIAMETER PROCESS PIPE. SAMPLE  
DURATIONS SHALL BE CALCULATED IN THE FLUSH LOG.

REASON FOR CHANGE: TO PROVIDE DOCUMENTATION OF SAMPLE  
DURATION CALCULATIONS.

APPROVAL:

Ed Wasil 1 6/18/85  
 TEST SUPV. DATE  
Ed Wasil 1 6/18/85  
 FLUSH SUPV. DATE

HOT FUNCTIONAL 1 DATE  
 & S/U TEST SUPT.

Change Request No. 85-5  
Sheet 1 of 3

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. Common  
CHANGE REQUEST

Procedure No./Revision 1-KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: SEE CONTINUATION SHEET.

2. Remove pages: \_\_\_\_\_  
and replace with attached pages: \_\_\_\_\_

3. Reason for change: 1) TO FLUSH CONSTRUCTION FIRE HEADER  
2) TO PROVIDE FOR FLUSHING OF LINES 651-12" AND  
656-12" WITH VALVES 658 AND 659 UNAVAILABLE.

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: Ed Wood DATE: 1 Mar 85

APPROVED BY: Ray A. Appankh DATE: 3-1-85

APPROVED BY: P. J. Jamieson DATE: 3-1-85

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT

UNIT NO. Common

CHANGE REQUEST  
(ATTACHMENT)

Procedure No./Revision 1-1KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes:

1. IN STEP 6.1.28, DELETE VALVES 660 AND ADD VALVES 653 AND 779.
2. CHANGE 6.1.29 TO READ "CLOSE VALVES 652 AND 774."
3. CHANGE 6.1.30 TO READ "START PUMP P4-003 OR P4-005."
4. CHANGE 6.1.31 TO READ "FLUSH LINE 656-12" AND 651-12"..."
5. CHANGE 6.1.32 TO READ "OPEN VALUE 717."
6. CHANGE 6.1.33 TO READ "CLOSE VALUE 779."
7. CHANGE 6.1.34 TO READ "FLUSH LINE 656-12"..."
8. CHANGE 6.1.35 TO READ "OPEN VALUE 779"
9. ADD NOTE PRIOR TO STEP 6.1.28 TO READ "NOTE STEPS 6.1.28 THROUGH 6.1.35 MAY BE PERFORMED UPON COMPLETION OF STEP 6.1.26."
10. DELETE STEP 6.1.36
11. MAKE STEP 6.1.27 STEP 6.1.36.
12. ADD NEW STEP 6.1.27 TO READ.  
" 6.1.27 FLUSH THE CONSTRUCTION FIRE HEADER BY PERFORMING  
THE FOLLOWING:  
6.1.27.1 OPEN VALVE 716 AND CLOSE VALVES 622 AND 637

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT

UNIT NO. Common

CHANGE REQUEST  
(ATTACHMENT)

Procedure No./Revision 1-KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: \_\_\_\_\_

6.1.27.2 FLUSH OUTER CONSTRUCTION LOOP TO WASTE UNTIL  
EFFLUENT REQUIREMENTS ARE MET.

6.1.27.3 CLOSE VALVES 716 AND 632.

6.1.27.4 OPEN VALVES 637 AND 622.

6.1.27.5 FLUSH INNER CONSTRUCTION LOOP TO WASTE  
UNTIL EFFLUENT REQUIREMENTS ARE MET.

Change Request No. 85-4  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. Common  
CHANGE REQUEST

Procedure

No./Revision 1-KC-01 REV 0Title FIRE PROTECTION WATER FLUSH1. Make the following pen-and-ink changes: CHANGE STEP 6.1.25TO READ = "6.1.25 START PUMP P4-005 OR P4-003

2. Remove pages: \_\_\_\_\_

and replace with attached pages: \_\_\_\_\_

3. Reason for change: TO ALLOW FLUSHING OF THE MAINLOOP WITH EITHER DIESEL FIRE PUMP.

Check one:

 Minor change Major change - involves  
changes in intent or acceptance limitsSUBMITTED BY: SO WeidDATE: 2/20/85APPROVED BY: SO WeidDATE: 2/20/85APPROVED BY: P.A. JonesDATE: 2/20/85

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

(FIGURE 2)

Change Request No. 85-3  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. C  
CHANGE REQUEST

Procedure No./Revision 1-1KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: ADD NEW NOTE AND PRECAUTION TO READ "4.14 QC HOLD POINT- NOTIFY VOGTLE NUCLEAR OPERATIONS QC AFTER FIRST CLEAN FLUSH AND PRIOR TO SCREEN INSERTION FOR FINAL FLUSH FOR CLEANLINESS INSPECTION."
2. Remove pages: \_\_\_\_\_  
and replace with attached pages: \_\_\_\_\_
3. Reason for change: TO ENSURE QC NOTIFICATION OF ACCEPTABLE FLUSHES.

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: Ed Wood DATE: 1/15/85  
 APPROVED BY: Ray Sprankle DATE: 1/15/85  
 APPROVED BY: [Signature] DATE: 1/15/85  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)



Change Request No. 85-2  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT

UNIT NO. C

CHANGE REQUEST

Procedure No./Revision 1-1KC-01 REVO

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: IN STEP 6.1.24,  
ADD VALVE 622 AND DELETE VALVE 634

2. Remove pages: \_\_\_\_\_  
and replace with attached pages: \_\_\_\_\_

3. Reason for change: TO ALLOW FLUSHING OF THE MAIN  
LOOP WITH VALVE 634 INOPERABLE.

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: SD Wain DATE: 1-14-85  
 APPROVED BY: Ray A. [Signature] DATE: 1-14-85  
 APPROVED BY: J. A. [Signature] DATE: 1-14-85  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)

PROCEDURE NO. SUM-12

REVISION 1

PAGE NO. 13

Change Request No. 85-1  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. C  
CHANGE REQUEST

Procedure No./Revision 1-1KC-01 REV. 0

Title FIRE PROTECTION WATER FLUSH.

- 1. Make the following pen-and-ink changes: 1) DELETE STEP 6.1.10  
2) ADD NOTE PRIOR TO STEP 6.1.11 STATING "STEPS 6.1.24 THROUGH 6.1.27  
MAY BE PERFORMED PRIOR TO STEPS 6.1.11 THROUGH 6.1.23."  
3) IN STEP 6.1.24, DELETE VALVES 814 AND 622.  
4) CHANGE TO READ "START PUMP P4-005" IN STEP 6.1.25-

2. Remove pages: \_\_\_\_\_  
and replace with attached pages: \_\_\_\_\_

3. Reason for change: TO ALLOW CONTINUATION OF SYSTEM  
FLUSH WHILE PUMP P4-003 IS INOPERABLE.

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: [Signature] DATE: 1/14/85

APPROVED BY: [Signature] DATE: 1/14/85

APPROVED BY: [Signature] DATE: 1/14/85

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)

Change Request No. 84-2  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. Common  
CHANGE REQUEST

Procedure No./Revision 1-1KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: 1) CHANGE STEP 6.1.3 TO READ "is ISOLATED PRIOR TO PERFORMING STEP 6.1.11."

2+3) CHANGE SECTION 6.1 Piping MODIFICATIONS 1 AND 3 TO READ "AND ALSO A 4" SAMPLING CONNECTION."

2. Remove pages: NONE  
and replace with attached pages: NONE

3. Reason for change: 1) TO SUPPORT STORAGE TANKS CROSS CONNECTION FLUSHING WHILE MAINTAINING SITE FIRE PROTECTION -

2+3) TO PROVIDE MORE EFFECTIVE SIDE STREAM FLOW FOR

PROOF FLUSHING

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: SO Wain DATE: 12/20/84  
 APPROVED BY: Ray A. Spank DATE: 12/20/84  
 APPROVED BY: J. James DATE: 12/20/84  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)

Change Request No. 84-1  
Sheet 1 of 1

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. COMMON  
CHANGE REQUEST

Procedure No./Revision 1-1KC-01 REV 0

Title FIRE PROTECTION WATER FLUSH

1. Make the following pen-and-ink changes: ADD NEW NOTE AND PRECAUTION TO READ "4.13 FLUSH SUB-SECTION PREREQUISITES INCLUDING INITIAL VALVE LINEUPS, INSTRUMENTATION ISOLATION, TEMPORARY MODIFICATION COMPLETION, WATER SUPPLY TESTING AND TANK INSPECTION MAY BE PERFORMED IN ANY ORDER."
2. Remove pages: N/A  
and replace with attached pages: N/A
3. Reason for change: TO EXPEDITE FLUSH PROCEDURE PERFORMANCE BY ALLOWING STORAGE TANKS TO BE CLEARED AND INSPECTED PRIOR TO LINEUPS AND MODIFICATIONS BEING COMPLETE.

Check one:

- Minor change
- Major change - involves changes in intent or acceptance limits

SUBMITTED BY: [Signature] DATE: 11/19/84  
 APPROVED BY: [Signature] DATE: 11/19/84  
 APPROVED BY: [Signature] DATE: 11/19/84  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

(FIGURE 2)

FIRE PROTECTION WATER FLUSH

1-1KC-01

VOGTLE ELECTRIC GENERATING PLANT

UNIT 1

FOR INFORMATION ONLY

PROCEDURE NUMBER: 1-1KC-01  
REVISION NUMBER: 0  
REVISION DATE: May 24, 1984  
PREPARED BY: J. Lavery

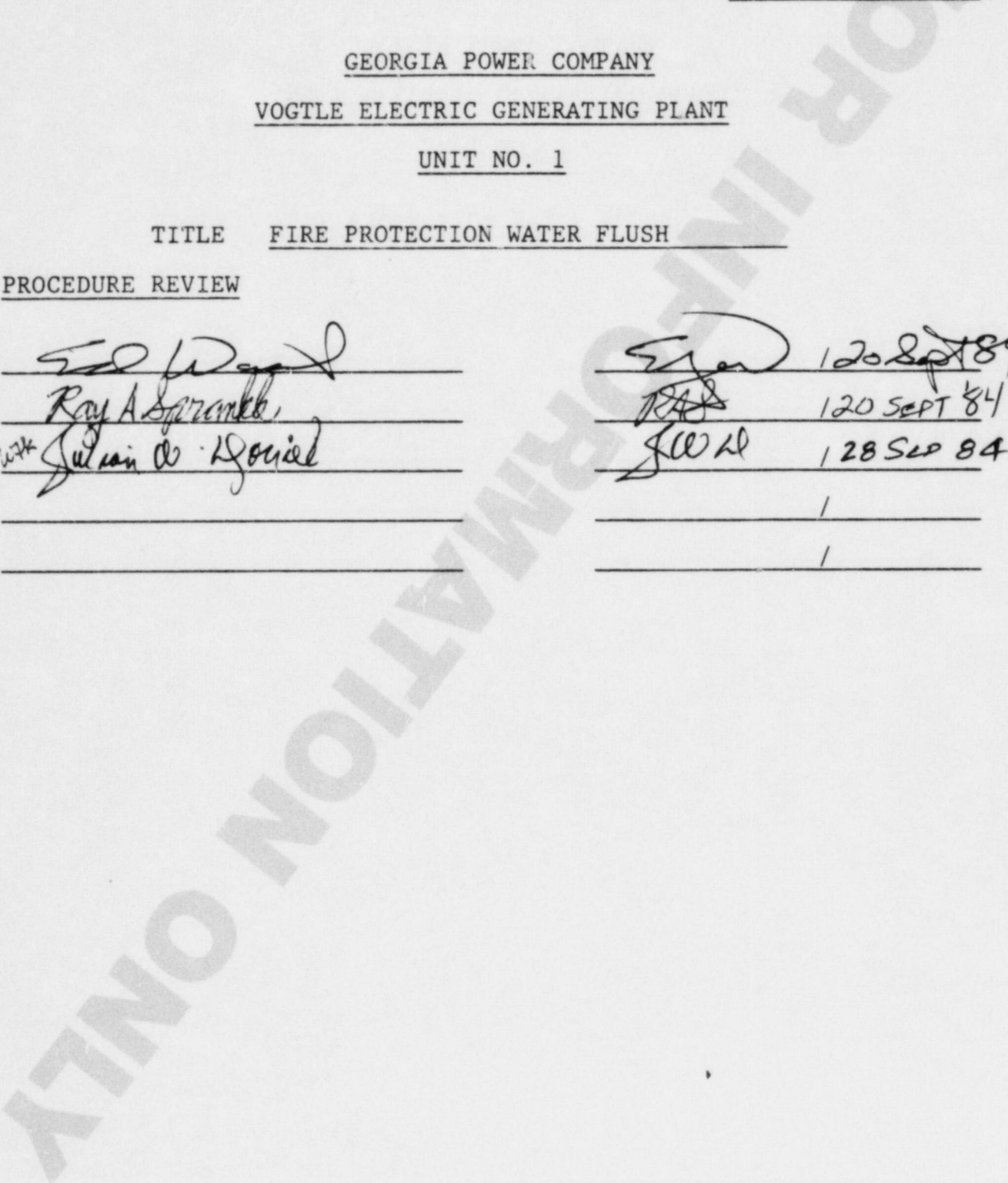
GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. 1

TITLE FIRE PROTECTION WATER FLUSH

PROCEDURE REVIEW

[Signature]  
Ray A. Sprankle  
with Julian D. Goulet  
\_\_\_\_\_  
\_\_\_\_\_

[Signature] 120 Sept 84  
RAS 120 SEPT 84  
JWAL 128 SEP 84  
\_\_\_\_\_ /  
\_\_\_\_\_ /



PROCEDURE NUMBER: 1-1KC-01  
REVISION NUMBER: 0  
REVISION DATE: May 24, 1984  
PREPARED BY: J. Lavery

GEORGIA POWER COMPANY  
VOGTLE ELECTRIC GENERATING PLANT  
UNIT NO. 1

TITLE FIRE PROTECTION WATER FLUSH

PROCEDURE REVIEW, REV. 0

INITIAL TEST PROGRAM MANAGER

*J. Lavery* 5/10/84

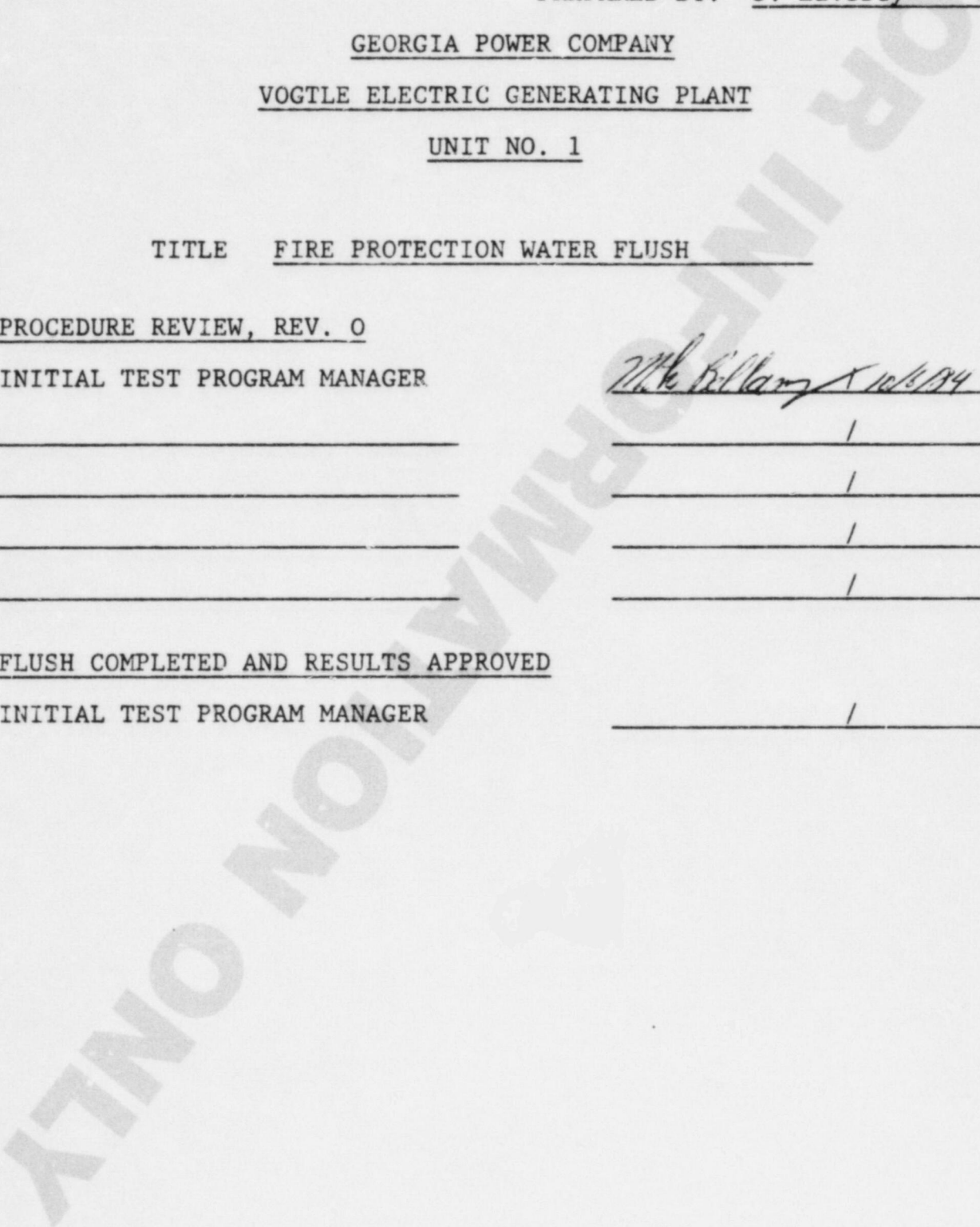
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\_\_\_\_\_

FLUSH COMPLETED AND RESULTS APPROVED

INITIAL TEST PROGRAM MANAGER

\_\_\_\_\_



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FIRE PROTECTION WATER FLUSH

1.0 OBJECTIVES

The objective of this procedure is to establish the Fire Protection Water System at a Class D cleanness level. This will be accomplished by velocity flushing of system piping and equipment.

2.0 REFERENCES

2.1 SUM-16 Rev. 3, Cleanness Verification Guidelines

2.2 PIPING AND INSTRUMENTATION DIAGRAMS

1X4DB173, Rev. 7 - F. P. Piping, Turbine Bldg. 2301

CX4DB173-1, Rev. 17 - F. P. Pump Houses, L & 2 2301

CX4DB173-2, Rev. 9 - F. P. Yard Piping 2301

CX4DB173-5, Rev. 3 - F. P. High Voltage Valvehouse 1  
2301

CX4DB173-6, Rev. 1 - F. P. High Voltage Valvehouse 2,3,4  
2301

1X4DB173-6, Rev. 1 - F. P. Low Voltage Valvehouse 2301

AX4DB173-8, Rev. 2 - F. P. Administration Bldg. 2301

1X4DB174-1, Rev. 7 - F. P. Water & Halon Systems 2301

1X4DB174-2, Rev. 8 - F. P. Water Systems 2301

1X4DB174-3, Rev. 7 - F. P. Water Systems 2301

1X4DB174-4, Rev. 8 - F. P. Water Systems 2301

AX4DB104-5, Rev. 4 - Radwaste Solidification 1903

AX4DB204-1, Rev. 6 - Fuel Handling Bldg. HVAC 1541

1X4DB205-1, Rev. 9 - Piping Penetration HVAC 1561

AX4DB206-1, Rev. 5 - Control Room HVAC - Unit 2, 1531

AX4DB206-3, Rev. 7 - Control Room HVAC - Unit 1, 1531

1X4DB208-1, Rev. 4 - Aux. Bldg. HVAC 1551

1X4DB209, Rev. 6 - Elec. Pen. Room HVAC 1562

1X4DB213-1, Rev. 3 - Purification & Clean Up. 1506  
1X4DB213-2, Rev. 2 - Purification & Clean Up. 1504  
1X4DB229-3, Rev. 1 - Turbine Bldg. Filtration System  
AX4DB215, Rev. 6 - Control Bldg. HVAC. 1533  
AX4DB235, Rev. 5 - Tech. Support Center. 1563  
AX4DB351-1, Rev. 4 - Radwaste Solid HVAC. 1546  
AX4DB351-4, Rev. 5 - Radwaste Solid HVAC. 1546

3.0 TEST EQUIPMENT

3.1 Flushing cloths as specified in SUM-16 or 14 mesh strainer. Satisfactory effluent must meet Class D particle criteria.

4.0 NOTES AND PRECAUTIONS

- 4.1 All piping and equipment in this procedure are Unit 1 or Common and are in System 2301 unless otherwise noted. Tank T4-002 and Diesel pumps are already in operation.
- 4.2 All piping and equipment removed from the system shall be cleaned, labeled, and protected.
- 4.3 Sections of system piping which are flushed but must remain idle for long periods of time pending overall completion of flush shall be laid up.
- 4.4 Appropriate elements of the data sheets shall be completed as the data is collected.
- 4.5 Fire hose connections fed by Nuclear Service Cooling Water, as shown on P & ID 1X4DB174-6, Rev. 5, shall be flushed in procedure 1-1EF-01.
- 4.6 Electrical power will not be initially available to motor driven pumps, P4-001 and P4-002. Hence, all flushing will be performed by the two diesel pumps and jockey pump P4-004 until electrical power is connected.

- 4.7 Equipment actuation shall be directed by the Test Supervisor as required to perform this procedure and to optimize flushing effectiveness.
- 4.8 Equipment and component limitations specified in the System Operating Procedure (SOP) shall be followed as applicable.
- 4.9 The Fire Protection - Water System is already partially in operation.
- 4.10 Obtain approval from Shift Supervisor before starting the flush.
- 4.11 If a particular flush requires isolation of a portion of any loop, every effort should be made to complete that test and restore normal fire protection as soon as possible.
- 4.12 Required Construction Acceptance Tests shall be completed before equipment is operated.

5.0 PREREQUISITES AND INITIAL CONDITIONS

- 5.1 Verify that a minimum of 1000 gallons of diesel oil is available to support diesel fire pump operation.

SECTION 5.0 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.0 FLUSH PROCEDURE

- 6.1 FIRE WATER STORAGE TANK, PUMP HOUSE AND YARD LOOP DWGS. C1X4DB173-1 AND C1X4DB173-2

- 6.1.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.1 are complete and operable.

- 6.1.2 Initial Valve Lineup for Section 6.1 on Attachment 10.1 is complete.

6.1.3 Instrumentation for Section 6.1 on Attachment 10.2 is isolated.

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6.1.4 Temporary Modifications for Section 6.1 on Attachment 10.3 are complete.

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6.1.5 Sample and test the supply water. Supply meets Class D water quality.

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6.1.6 Inspect/Clean Storage Tank T4-001 to meet Class D cleanness as specified in 9.0 Acceptance Criteria. (REF. DATA SHEET 7.2)

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NOTES

As long as suction piping of pumps P4-001 and P4-002 are not restored, perform the following statements:

- (1) Place diesel fire pumps P4-003 and P4-005 in the "MANUAL 1" position (HS-7907B and HS-7990B respectively) to prevent automatic operation during flushing of the firewater suction piping.
  - (2) Station a person in Fire Pump-house #2 to monitor PI-18074 for a drop in system pressure that may indicate sprinkler system or hydrant emergency use.
  - (3) If the pressure unexpectedly drops below 100 psi or drops faster than expected, close all in-line valves in the temporary flushing piping and start pump P4-003 by depressing the manual start pushbutton. Place HS-7990B in the "AUTO" position to allow automatic operation, if required.
-

VEGP-1  
1-1KC-01  
REV. 0

- 6.1.7 Open HV7932, HV7935, and HV7941. Flush to waste from temporary flush piping installed at suction of pump P4-002. Flush until effluent requirements are met.
- 
- 6.1.8 Close HV7941 and open valve 002. Flush to waste from temporary flush piping installed at suction of pump P4-001. Flush until effluent requirements are met.
- 
- 6.1.9 Close HV7935, HV7932. Open valve 502 and flush to waste until effluent meets requirements.
- 
- 6.1.10 Restore suction piping to pumps P4-001 and P4-002.
- 
- 6.1.11 Stop pump P4-004 if it is already operating. Connect hose to flange of line 021-1" where FO7942 had been removed and place the other end in the funnel of line 104-3".
- 
- 6.1.12 Close valve 119. Start pump P4-004. Fill and drain chemical pot feeder through valves 106 and 108 until effluent meets requirements.
- 6.1.13 Stop pump P4-004 and close valve 106. Reconnect line 021-1" and start pump P4-004.
- 
- 6.1.14 Close valve 505 and open valve 104. Flush line 021-1" to drain until effluent requirements are met. Close valves 104 and 108.
-

6.1.15 Open valve X-599. Flush pump P4-004 miniflow line 101-2" to waste until effluent meets requirements. Close valve X-599 and open valve 505.

\_\_\_\_\_  
/

6.1.16 Open valve 119. Close 597. Open 2" temporary sampling valve and flush line 107-1½" to waste at the temporary modification installed between valves 660 and 661, until effluent meets requirements.

\_\_\_\_\_  
/

6.1.17 Open valve 597. Close valve 598 and flush line 628-1½" to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.1.18 Close valve 659.

\_\_\_\_\_  
/

6.1.19 Start pump P4-003. Open valves 011, 713, 898, and 512.

\_\_\_\_\_  
/

6.1.20 Flush the following lines through tank T4-001 to waste at drain connection below valve 512 until effluent meets requirements.

058-10" \_\_\_\_\_  
/

006-12" \_\_\_\_\_  
/

509-12" \_\_\_\_\_  
/

035-8" \_\_\_\_\_  
/

6.1.21 Close valves 011, 713, 898, 512, and 014.

\_\_\_\_\_  
/

6.1.22 Open valve 023. Flush lines 500-10" and 018-6" to waste through line 018-10" until effluent meets requirements. Close 023 and open valve 014.

\_\_\_\_\_  
/

6.1.23 Open valves 740 and 743. Close valve 738. Flush diesel engine cooling water by-pass line through drain at heat exchanger until effluent meets requirements. Open 738, close valves 740 and 743 and reinstall filter C-2301-P4-003-F05. Stop pump P4-003 and place it in "AUTO".

\_\_\_\_\_ / \_\_\_\_\_

6.1.24 Close the following 7 yard loop isolation valves.

660 \_\_\_\_\_ / \_\_\_\_\_

814 \_\_\_\_\_ / \_\_\_\_\_

622 \_\_\_\_\_ / \_\_\_\_\_

634 \_\_\_\_\_ / \_\_\_\_\_

779 \_\_\_\_\_ / \_\_\_\_\_

716 \_\_\_\_\_ / \_\_\_\_\_

653 \_\_\_\_\_ / \_\_\_\_\_

6.1.25 Open valve 652, 659, and 661. Start pump P4-005.

\_\_\_\_\_ / \_\_\_\_\_

6.1.26 Flush outer yard loop 515-12" to waste until effluent requirements are met.

\_\_\_\_\_ / \_\_\_\_\_

6.1.27 Open valves 733 and 742. Close valve 731. Flush diesel engine cooling water by-pass line to drain at heat exchanger until effluent meets requirements. Open 731, close valves 733 and 742 and reinstall filter C-2301-P4-005-F05. Stop pump P4-005.

\_\_\_\_\_ / \_\_\_\_\_

- 6.1.28 Open the following isolation valves:  
660 \_\_\_\_\_ / \_\_\_\_\_  
814 \_\_\_\_\_ / \_\_\_\_\_
- 6.1.29 Close valve 661.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.30 Start pump P4-003.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.31 Flush line 656-12" to waste from yard loop drain  
connection until effluent criteria are met.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.32 Open valve 779.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.33 Close valve 774.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.34 Flush line 651-12" to waste from the yard loop drain  
connection until effluent criteria are met.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.35 Open valve 774.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.36 Close valve 814. (Line 651-12")  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.37 Flush switchyard loop to waste from yard loop drain  
connection until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.38 Open valves 814 and 598.  
\_\_\_\_\_ / \_\_\_\_\_



6.1.39 Stop pump P4-003 and restore to "AUTO". Open valve 024.

\_\_\_\_\_ / \_\_\_\_\_

6.1.40 Close the following 2 valves:

015 (Pump P4-004 Discharge)

\_\_\_\_\_ / \_\_\_\_\_

026 (Pump P4-005 ISO)

\_\_\_\_\_ / \_\_\_\_\_

6.1.41 Using pump P4-005, flush lines 510-10" and 016-6" to waste through a temporary hose attached on line 018-10" until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.1.42 Close valve 660 and 024. Open valve 026 and 500, 653.

\_\_\_\_\_ / \_\_\_\_\_

6.1.43 Flush line 501-10" to waste through temporary hose on line 018-10" until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.1.44 Close valve 505 and open the following valves one at a time and flush line 617-10". (Test Manifold to waste until effluent meets requirements.)

705

\_\_\_\_\_ / \_\_\_\_\_

706

\_\_\_\_\_ / \_\_\_\_\_

707

\_\_\_\_\_ / \_\_\_\_\_

708

\_\_\_\_\_ / \_\_\_\_\_

709

\_\_\_\_\_ / \_\_\_\_\_

710

\_\_\_\_\_ / \_\_\_\_\_

711

\_\_\_\_\_ / \_\_\_\_\_

712

\_\_\_\_\_ / \_\_\_\_\_

6.1.45 Stop pump P4-005 and restore to "AUTO". Close valve 500 and open valve 505.

\_\_\_\_\_ / \_\_\_\_\_

- 6.1.46 Place the fire protection system in the normal operating condition. Open valves 622, 634, 716, and 660.
- /
- 
- 6.1.47 Open valves 110 and 108. Flush line 103-2" to waste through valve 108 until effluent meets requirements. Close valves 110 and 108.
- /
- 
- 6.1.48 Place HS-7907B in "TEST" position. Open KV-7907 and X-652. Flush line 640-1" and line 684-1/2" to waste at the drain until effluent meets requirements. Close valve KV-7907 and X-652.
- /
- 
- 6.1.49 Open valve 017 and 741. Flush line 502-3" to waste through valve 741 until effluent meets requirements. Close valve 741.
- /
- 
- 6.1.50 Open valve 823, X-653 and KV-7990. Flush line 639-1/2" to waste at drain until effluent meets requirements. Close valve KV-7990 and X-653.
- /
- 
- 6.1.51 Open valve 501 and flush drain line to waste until effluent meets requirements. Close valve 501.
- /
- 
- 6.1.52 Close valve 017 (Sprinkler System S4-519). Attach hoses in fittings of the sprinkler valves.
- /
- 
- 6.1.53 Flush through valve 017 until effluent meets requirements. Close valve 017.
- /
- 
- 6.1.54 Restore sprinklers to original state. Open valve 017.
- /
-

NOTE

The following steps are to be performed when electrical power is available to pumps C-2301-P4-001 and C-2301-P4-002 and storage tank T4-001 is full of water.

- 6.1.55 Verify the suction piping to pumps P4-001 and P4-002 has been restored  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.56 Open valve 011 and HV-7933. Close valves 008 and 658.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.57 Disconnect valve 898 from line 058-10".  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.58 Start pumps P4-001 and P4-002.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.59 Flush the following lines to waste until effluent meets requirements.  
Line 006-12" \_\_\_\_\_ / \_\_\_\_\_  
Line 509-12" \_\_\_\_\_ / \_\_\_\_\_  
Line 637-1" \_\_\_\_\_ / \_\_\_\_\_
- 6.1.60 Flush line 022-1" out of open spool on line 058-10" to waste until effluent requirements are met. Close valve 016.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.61 Open valve 008 and flush line 005-1-1/2 to waste until effluent meets the requirements. Open valve 661.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.62 Shut down pumps P4-001 and P4-002. Open valve 658.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.1.63 Restore valve 898. Open valve 016.  
\_\_\_\_\_ / \_\_\_\_\_

6.1.64 Flush all vents, drains and test connections until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_

6.1.65 Flush instrumentation for Section 6.1 on Attachment 10.2 to waste until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.1 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.2 FIRE HYDRANTS AT YARD LOOP - DWG. CX4DB173-2

6.2.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.2 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_

6.2.2 Initial Valve Lineup for Section 6.2 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_

6.2.3 Temporary Modifications for Section 6.2 on Attachment 10.3 are complete.  
\_\_\_\_\_ / \_\_\_\_\_

6.2.4 Verify that Section 6.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_

6.2.5 Start pump P4-003.  
\_\_\_\_\_ / \_\_\_\_\_

6.2.6 Flush the following fire hydrants to waste until visually clean.  
931 \_\_\_\_\_ / \_\_\_\_\_  
929 \_\_\_\_\_ / \_\_\_\_\_  
926 \_\_\_\_\_ / \_\_\_\_\_

- 927 \_\_\_\_\_ / \_\_\_\_\_
- 994 \_\_\_\_\_ / \_\_\_\_\_
- 938 \_\_\_\_\_ / \_\_\_\_\_
- 939 \_\_\_\_\_ / \_\_\_\_\_
- 962 \_\_\_\_\_ / \_\_\_\_\_
- 940 \_\_\_\_\_ / \_\_\_\_\_
- 942 \_\_\_\_\_ / \_\_\_\_\_
- 945 \_\_\_\_\_ / \_\_\_\_\_
- 993 \_\_\_\_\_ / \_\_\_\_\_
- 924 \_\_\_\_\_ / \_\_\_\_\_
- 947 \_\_\_\_\_ / \_\_\_\_\_
- 992 \_\_\_\_\_ / \_\_\_\_\_
- 925 \_\_\_\_\_ / \_\_\_\_\_
- 999 \_\_\_\_\_ / \_\_\_\_\_
- 948 \_\_\_\_\_ / \_\_\_\_\_
- 998 \_\_\_\_\_ / \_\_\_\_\_
- 937 \_\_\_\_\_ / \_\_\_\_\_
- 997 \_\_\_\_\_ / \_\_\_\_\_
- 996 \_\_\_\_\_ / \_\_\_\_\_
- 995 \_\_\_\_\_ / \_\_\_\_\_
- 941 \_\_\_\_\_ / \_\_\_\_\_
- 943 \_\_\_\_\_ / \_\_\_\_\_
- 944 \_\_\_\_\_ / \_\_\_\_\_
- 946 \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.2 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.3 RADWASTE SOLIDIFICATION BUILDING - DWG. 1X4D174-1

6.3.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.3 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.3.2 Initial Valve Line up for Section 6.3 on Attachment 10.1 is complete.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.3.3 Temporary Modifications for Section 6.3 on Attachment 10.3 are complete.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.3.4 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.3.5 Flush line 678-6" through the following fire hose stations in groups of three, until effluent meets requirements.

- 426-2½" \_\_\_\_\_/\_\_\_\_\_
- 427-2½" \_\_\_\_\_/\_\_\_\_\_
- 428-2½" \_\_\_\_\_/\_\_\_\_\_
- 429-2½" \_\_\_\_\_/\_\_\_\_\_
- 430-2½" \_\_\_\_\_/\_\_\_\_\_
- 431-2½" \_\_\_\_\_/\_\_\_\_\_
- 432-2½" \_\_\_\_\_/\_\_\_\_\_
- 433-2½" \_\_\_\_\_/\_\_\_\_\_
- 434-2½" \_\_\_\_\_/\_\_\_\_\_
- 435-2½" \_\_\_\_\_/\_\_\_\_\_
- 447-2½" \_\_\_\_\_/\_\_\_\_\_

6.3.6 Open vent valve X-384, X-382 and X-401.  
Open drain valve X-383.  
Flush, then close all 4 valves.

6.3.7 Attach hoses to the fittings of the preaction sprinkler valves in the following rooms, and flush line 677-6" to waste until effluent requirements are met.

- Room 201 \_\_\_\_\_ / \_\_\_\_\_
- Room 202 \_\_\_\_\_ / \_\_\_\_\_
- Room 203 \_\_\_\_\_ / \_\_\_\_\_
- Room 204 \_\_\_\_\_ / \_\_\_\_\_
- Room 205 \_\_\_\_\_ / \_\_\_\_\_

Restore sprinklers to previous condition.

6.3.8 On line 442-1½", close TV-11098, and open HV-11097 and drain valve 003. Flush to waste at valve 003 until effluent meets requirements.

6.3.9 Close HV-11097 and 003.

6.3.10 On line 443-1½", close TV-11037 and open HV-11094 and drain valve 224. Flush to waste at valve 224 until effluent meets requirements.

6.3.11 Close HV-11094 and valve 224.

\_\_\_\_\_ / \_\_\_\_\_

6.3.12 On line 444-1½", close TV-11047 and open valves HV-11095 and 223. Flush to waste at valve 223 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.3.13 Close HV-11095 and valve 223.

\_\_\_\_\_ / \_\_\_\_\_

6.3.14 Attach drain hoses to the flanged ends of lines 439-1" and 440-1", in the off-gas filter rooms.

\_\_\_\_\_ / \_\_\_\_\_

6.3.15 Open valves A-2301-360 and A-2301-361 and flush to waste until effluent requirements are met. Remove hoses, restore flanges to original state and close valves A-2301-360 and A-2301-361.

\_\_\_\_\_ / \_\_\_\_\_

6.3.16 Open vent valve X-386 and drain valves X-403, and X-385 and flush to waste. Close valves X-385, X-386, and X-403. Open valve 810.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.3 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.4 DEMINERALIZER BUILDING - DWG. CX4DB173-2.

6.4.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.4 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_



6.4.2 Initial Valve Lineup for Section 6.4 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.4.3 Temporary modifications for Section 6.4 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.4.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.4.5 Flush line 633-6" to waste at the temporary isolation valve until effluent requirements are met.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.4 COMPLETED BY:

\_\_\_\_\_ / \_\_\_\_\_

6.5 RIVER INTAKE STRUCTURE-DWG. CX4DB173-2

6.5.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.5 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.5.2 Initial Valve Lineup for Section 6.5 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.5.3 Temporary Modifications for Section 6.5 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.5.4 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
/

6.5.5 Flush line 634-8" to waste at the temporary isolation valve until effluent requirements are met.

\_\_\_\_\_/\_\_\_\_\_  
/

SUBSECTION 6.5 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.6 HIGH VOLTAGE SWITCHYARD VALVEHOUSE NO.1 DWG. CX4DB173-5

6.6.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.6 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_  
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6.6.2 Initial Valve Lineup for Section 6.6 on Attachment 10.1 is complete.

\_\_\_\_\_/\_\_\_\_\_  
/

6.6.3 Temporary Modifications for Section 6.6 on Attachment 10.3 are complete.

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6.6.4 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
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NOTE

Isolation of Unit 2 piping will be left to the discretion of the flushing engineer.

6.6.5 Remove filter internals from filter (F4-601). Open valve 751 and 750.

\_\_\_\_\_/\_\_\_\_\_  
/

6.6.6 Flush line 690-8" through the filter and to waste until effluent requirements are met.

\_\_\_\_\_ / \_\_\_\_\_

6.6.7 Flush line 691-6" to waste at the following five temporary isolation valves until effluent requirements are met:

A-2301-752 \_\_\_\_\_ / \_\_\_\_\_

A-2301-753 \_\_\_\_\_ / \_\_\_\_\_

A-2301-754 \_\_\_\_\_ / \_\_\_\_\_

A-2301-755 \_\_\_\_\_ / \_\_\_\_\_

A-2301-756 \_\_\_\_\_ / \_\_\_\_\_

Close valve 750 \_\_\_\_\_ / \_\_\_\_\_

Restore Valves to Original State

\_\_\_\_\_ / \_\_\_\_\_

6.6.8 Open valve 750 and flush valve 757 to waste. Restore removed internals to filter (F4-601). Close valve 751 and 757.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.6 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.7 HIGH VOLTAGE SWITCHYARD VALVE HOUSE NO. 2 DWG. CX4DB173-6

6.7.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.7.2 Initial Valve Lineup for Section 6.7 on Attachment 10.1 complete.

\_\_\_\_\_ / \_\_\_\_\_

- 6.7.3 Temporary Modifications for Section 6.7 on Attachment 10.3 are complete. \_\_\_\_\_ /
- 6.7.4 Verify that pump P4-003 is in service. \_\_\_\_\_ /
- 6.7.5 Close valve 877. \_\_\_\_\_ /
- 6.7.6 Remove filter internal from filter F4-600. \_\_\_\_\_ /
- 6.7.7 Open valves 878 and 877. \_\_\_\_\_ /
- 6.7.8 Flush line 733-10" to waste until effluent meets requirement. Close valve 878. \_\_\_\_\_ /
- 6.7.9 Flush the following valves, one at a time, through temporary isolation valves installed at valve bodies:
  - Valve 879 \_\_\_\_\_ /
  - Valve 880 \_\_\_\_\_ /
  - Valve 881 \_\_\_\_\_ /
- 6.7.10 Close valve 877. \_\_\_\_\_ /
- 6.7.11 Replace filter F4-600 and open valve 877. \_\_\_\_\_ /

6.7.12 Close valve 878.

SUBSECTION 6.7 COMPLETED BY:

\_\_\_\_\_  
/\_\_\_\_\_  
SIGNATURE DATE

6.8 HIGH VOLTAGE SWITCHYARD VALVE HOUSE NO. 3 DWG.  
CX4DB173-6

6.8.1 Verify that Startup System KC, Fire Protection Water  
System piping and equipment required for Section 6.8 are  
complete and operable.

6.8.2 Initial Valve Lineup for Section 6.8 and Attachment 10.1  
is complete.

6.8.3 Temporary Modifications for Section 6.8 on Attachment  
10.3 are complete.

6.8.4 Verify that pump P4-003 is in service.

6.8.5 Close valve 882.

6.8.6 Remove filter internal from filter F4-603.

6.8.7 Open valves 883 and 882.



6.9.2 Initial Valve Lineup for Section 6.9 on Attachment 10.1 is complete.

6.9.3 Temporary Modifications for Section 6.9 on Attachment 10.3 are complete.

6.9.4 Verify that pump P4-003 is in service.

6.9.5 Close valve 890.

6.9.6 Remove filter internal from filter F4-604.

6.9.7 Open valves 891 and 890.

6.9.8 Flush line 748-10" to waste until effluent meets requirements. Close valve 891.

6.9.9 Flush the following valves, one at a time, through temporary isolation valves installed at valve bodies:

Valve 892

Valve 893

Valve 894

6.9.10 Flush through the following spare valves:

Valve 895

Valve 896

Valve 897

Close three valves

6.9.11 Close valve 890.

6.9.12 Replace filter F4-604 and open valve 890.  
\_\_\_\_\_ / \_\_\_\_\_

6.9.13 Close valve 891.  
\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.9 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.10 FIRE HYDRANTS AT HIGH VOLTAGE SWITCHYARD LOOP - DWG. CX4DB173-6

6.10.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_

6.10.2 Initial Valve Lineup for Section 6 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_

6.10.3 Verify that pump P4-003 is in service.  
\_\_\_\_\_ / \_\_\_\_\_

6.10.4 Flush the following fire hydrants 3 at a time to waste until effluent requirements are met.

- 906 \_\_\_\_\_ / \_\_\_\_\_
- 907 \_\_\_\_\_ / \_\_\_\_\_
- 908 \_\_\_\_\_ / \_\_\_\_\_
- 909 \_\_\_\_\_ / \_\_\_\_\_
- 910 \_\_\_\_\_ / \_\_\_\_\_
- 911 \_\_\_\_\_ / \_\_\_\_\_
- 912 \_\_\_\_\_ / \_\_\_\_\_
- 913 \_\_\_\_\_ / \_\_\_\_\_





6.11.5 Remove filter internals from filter (F4-602). Open valve 759.

\_\_\_\_\_ / \_\_\_\_\_

6.11.6 Flush line 648-8 through the filter and to waste until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.11.7 Flush line 649-6 to waste at the following temporary isolation valves until effluent meets requirements. (No more than two valves simultaneously)

760 \_\_\_\_\_ / \_\_\_\_\_

761 \_\_\_\_\_ / \_\_\_\_\_

762 \_\_\_\_\_ / \_\_\_\_\_

763 \_\_\_\_\_ / \_\_\_\_\_

764 \_\_\_\_\_ / \_\_\_\_\_

765 \_\_\_\_\_ / \_\_\_\_\_

766 \_\_\_\_\_ / \_\_\_\_\_

767 \_\_\_\_\_ / \_\_\_\_\_

Close valve 758 \_\_\_\_\_ / \_\_\_\_\_

Restore valves to original state

\_\_\_\_\_ / \_\_\_\_\_

6.11.8 Restore removed internals to filter (F4-602). Close valve 759, and open valve 758.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.11 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

- 6.12 FIRE WATER SUPPLY HEADER TO AUX. BUILDING - DWG.  
1X4DB174-2 and 1X4DB174-4
- 6.12.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.2 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.2 Initial Valve Lineup for Section 6.12 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.3 Instrumentation for Section 6.12 on Attachment 10.2 is isolated.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.4 Temporary Modifications for Section 6.12 on Attachment 10.3 are complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.5 Verify that pump P4-003 is in service.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.6 Sample and test the supply water to Aux. Bldg. Supply meets Class D water quality.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.7 Close the following valves.  
HV-27930 (Aux. Bldg.) \_\_\_\_\_ / \_\_\_\_\_  
055 (Line 071-8") \_\_\_\_\_ / \_\_\_\_\_
- 6.12.8 Flush line 556-8" to waste at valve 293 until effluent meet requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.12.9 Open the following vent and drain valve and flush to waste until effluent meets requirements:  
X-113 \_\_\_\_\_ / \_\_\_\_\_  
X-357 \_\_\_\_\_ / \_\_\_\_\_  
Close two valves \_\_\_\_\_ / \_\_\_\_\_

6.12.10 Close the following valves:

808 (Yard Loop) \_\_\_\_\_ / \_\_\_\_\_  
294 \_\_\_\_\_ / \_\_\_\_\_

6.12.11 Open valve 055.

\_\_\_\_\_ / \_\_\_\_\_

6.12.12 Flush line 071-8" to waste at valve 293 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.12.13 Open the following vent and drain valves and flush to waste until visually clean:

X-007 \_\_\_\_\_ / \_\_\_\_\_  
X-073 \_\_\_\_\_ / \_\_\_\_\_  
X-174 \_\_\_\_\_ / \_\_\_\_\_  
X-173 \_\_\_\_\_ / \_\_\_\_\_  
X-198 \_\_\_\_\_ / \_\_\_\_\_  
X-318 \_\_\_\_\_ / \_\_\_\_\_  
X-316 \_\_\_\_\_ / \_\_\_\_\_  
X-202 \_\_\_\_\_ / \_\_\_\_\_  
close all valves. \_\_\_\_\_ / \_\_\_\_\_

6.12.14 Close valve 055.

\_\_\_\_\_ / \_\_\_\_\_

6.12.15 Restore valve 293.

\_\_\_\_\_ / \_\_\_\_\_

6.12.16 Open the following valves:

808 \_\_\_\_\_ / \_\_\_\_\_  
294 \_\_\_\_\_ / \_\_\_\_\_  
055 \_\_\_\_\_ / \_\_\_\_\_

6.12.17 Flush instrumentation for Section 6.12 on Attachment 10.2 to waste until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.12 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.13 AUXILIARY BUILDING LEVEL D - DWG. 1X4DB174-2

6.13.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.13 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.13.2 Initial Valve Lineup for Section 6.13 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.13.3 Temporary Modifications for Section 6.13 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.13.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.13.5 Open HV-27930 and flush lines 077-4" and 096-4" to waste until effluent meets requirements. Flush these fire hose stations no more than two simultaneously.

2-2301-125-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-125-2½" \_\_\_\_\_ / \_\_\_\_\_

2-2301-128-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-128-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-129-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-127-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-099-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-126-2½" \_\_\_\_\_ / \_\_\_\_\_

1-2301-098-2½ \_\_\_\_\_ / \_\_\_\_\_

1-2301-124-2½ \_\_\_\_\_ / \_\_\_\_\_

1-2301-123-2½ \_\_\_\_\_ / \_\_\_\_\_

6.13.6 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-D48 \_\_\_\_\_ / \_\_\_\_\_

R-D49 \_\_\_\_\_ / \_\_\_\_\_

R-D101 \_\_\_\_\_ / \_\_\_\_\_

R-C91 \_\_\_\_\_ / \_\_\_\_\_

R-C95 \_\_\_\_\_ / \_\_\_\_\_

R-C99 \_\_\_\_\_ / \_\_\_\_\_

R-D75 \_\_\_\_\_ / \_\_\_\_\_

R-D77 \_\_\_\_\_ / \_\_\_\_\_

R-D74 \_\_\_\_\_ / \_\_\_\_\_

R-D76 \_\_\_\_\_ / \_\_\_\_\_

R-D78 \_\_\_\_\_ / \_\_\_\_\_

R-D79 \_\_\_\_\_ / \_\_\_\_\_

R-D100 \_\_\_\_\_ / \_\_\_\_\_

Restore sprinklers to previous condition \_\_\_\_\_ / \_\_\_\_\_

6.13.7 Open drain and vent valves X-031, X-030, X-029, X-028, X-270, X-269, X-256, X-036, X-157, X-238, X-237, X-189, and X-042. Flush to waste, then close valves.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.13 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

- 6.14 AUXILIARY BUILDING LEVEL C - DWG. 1X4DB174-2
- 6.14.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.14 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.14.2 Initial Valve Lineup for Section 6.14 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.14.3 Temporary Modifications for Section 6.14 on Attachment 10.3 are complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.14.4 Verify that pump P4-003 is in service.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.14.5 Open temporary isolation valves at A-2301-364 and A-2301-264 and flush to waste until effluent meets requirements.  
Line 090-4" \_\_\_\_\_ / \_\_\_\_\_  
Line 082-4" \_\_\_\_\_ / \_\_\_\_\_
- 6.14.6 Flush to waste through the following fire hose stations until effluent meets requirements. No more than two fire hose stations simultaneously.  
162-2½" \_\_\_\_\_ / \_\_\_\_\_  
161-2½" \_\_\_\_\_ / \_\_\_\_\_  
158-2½" \_\_\_\_\_ / \_\_\_\_\_  
155-2½" \_\_\_\_\_ / \_\_\_\_\_  
106-2½" \_\_\_\_\_ / \_\_\_\_\_  
156-2½" \_\_\_\_\_ / \_\_\_\_\_  
157-2½" \_\_\_\_\_ / \_\_\_\_\_  
160-2½" \_\_\_\_\_ / \_\_\_\_\_

160-2½" \_\_\_\_\_ /  
159-2½" \_\_\_\_\_ /  
142-2½" \_\_\_\_\_ /  
141-2½" \_\_\_\_\_ /

6.14.7 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-D51 \_\_\_\_\_ /  
R-D121 \_\_\_\_\_ /  
R-D118 \_\_\_\_\_ /  
R-DC88 \_\_\_\_\_ /  
R-C119 \_\_\_\_\_ /  
R-C120 \_\_\_\_\_ /  
R-C104 \_\_\_\_\_ /  
R-B10 \_\_\_\_\_ /  
R-C113 \_\_\_\_\_ /  
R-C114 \_\_\_\_\_ /  
R-C118 \_\_\_\_\_ /  
R-C111 \_\_\_\_\_ /  
R-C115 \_\_\_\_\_ /  
Restore sprinklers to original \_\_\_\_\_ /  
condition

6.14.8 Open valve in line 145-4" and the following vent and drain valves, X-241, X-016, X-016, X-116, X-118, X-015, X-143. Flush to drain, then close these valves and restore valves A-2301-264 and A-2301-364 to original condition at open position.

\_\_\_\_\_ /



SUBSECTION 6.14 COMPLETED BY:

- |        | /  | /    |
|--------|--|------|
|        | SIGNATURE  | DATE |
| 6.15   | AUXILIARY BUILDING LEVEL B - DWG. 1X4DB174-2   |      |
| 6.15.1 | Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.15 are complete and operable.                  |      |
|        | /  | /    |
| 6.15.2 | Initial Valve Lineup for Section 6.15 on Attachment 10.1 is complete.  |      |
|        | /  | /    |
| 6.15.3 | Temporary Modifications for Section 6.15 on Attachment 10.3 are complete.  |      |
|        | /  | /    |
| 6.15.4 | Verify that pump P4-003 is in service.   |      |
|        | /  | /    |
| 6.15.5 | Close valve 269. Open temporary isolation valve at A-2301-125 and flush line 081-6" until effluent meet requirements.                                  |      |
|        | /  | /    |
| 6.15.6 | Open temporary isolation valve at valve A-2301-121. Flush line 089-4" to waste until effluent meets requirements.                                      |      |
|        | /  | /    |
| 6.15.7 | Close temporary isolation valve at valve A-2301-121.   |      |
|        | /  | /    |
| 6.15.8 | Remove valve bonnets from A-2301-141, -142, -143, and -144. Install adaptors in these four 1½" valves with hose or temporary lines connected to waste. |      |
|        | /  | /    |

6.15.9 Flush the following lines to waste until effluent meets requirements:

- 195-1½" \_\_\_\_\_ / \_\_\_\_\_
- 196-1½" \_\_\_\_\_ / \_\_\_\_\_
- 197-1½" \_\_\_\_\_ / \_\_\_\_\_
- 198-1½" \_\_\_\_\_ / \_\_\_\_\_

Restore valves 141, 142, 143, and 144.

\_\_\_\_\_ / \_\_\_\_\_

6.15.10 Flush to waste at the following fire hose stations until effluent meets requirements. No more than two hoses simultaneously.

- 192-2½" \_\_\_\_\_ / \_\_\_\_\_
- 193-2½" \_\_\_\_\_ / \_\_\_\_\_
- 194-2½" \_\_\_\_\_ / \_\_\_\_\_
- 190-2½" \_\_\_\_\_ / \_\_\_\_\_
- 187-2½" \_\_\_\_\_ / \_\_\_\_\_
- 189-2½" \_\_\_\_\_ / \_\_\_\_\_
- 186-2½" \_\_\_\_\_ / \_\_\_\_\_
- 191-2½" \_\_\_\_\_ / \_\_\_\_\_
- 188-2½" \_\_\_\_\_ / \_\_\_\_\_
- 164-2½" \_\_\_\_\_ / \_\_\_\_\_
- 165-2½" \_\_\_\_\_ / \_\_\_\_\_
- 163-2½" \_\_\_\_\_ / \_\_\_\_\_

6.15.11 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

- R-B31 \_\_\_\_\_ / \_\_\_\_\_
- R-C100 \_\_\_\_\_ / \_\_\_\_\_

- R-B17 \_\_\_\_\_ / \_\_\_\_\_
- R-B50 \_\_\_\_\_ / \_\_\_\_\_
- R-B11 \_\_\_\_\_ / \_\_\_\_\_
- R-B12 \_\_\_\_\_ / \_\_\_\_\_
- R-B13 \_\_\_\_\_ / \_\_\_\_\_
- R-B2 \_\_\_\_\_ / \_\_\_\_\_
- R-B4 \_\_\_\_\_ / \_\_\_\_\_
- R-B7 \_\_\_\_\_ / \_\_\_\_\_
- R-B8 \_\_\_\_\_ / \_\_\_\_\_
- R-B19 \_\_\_\_\_ / \_\_\_\_\_
- R-B15 \_\_\_\_\_ / \_\_\_\_\_
- R-B23 \_\_\_\_\_ / \_\_\_\_\_
- R-B24 \_\_\_\_\_ / \_\_\_\_\_
- Restore sprinklers to previous \_\_\_\_\_ / \_\_\_\_\_  
condition

6.15.12 Open vent and drain valves X-146, X-114, X-144, X-145, X-105, X-313, X-336, X-314, X-217, X-218, X-219, X-220, and X-221. Flush to waste and close valves.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.15 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.16 AUXILARY BUILDING LEVEL A - DWG. 1X4DB174-2

6.16.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.16 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.16.2 Initial Valve Lineup for Section 6.16 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.16.3 Temporary Modifications for Section 6.16 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.16.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.16.5 Close valve 2-2301-135. Open temporary isolation valve at A-2301-124. Flush line 080-6" to waste from valve 124 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

NOTE

Flush the following fire hose stations in groups of no more than three to assure maximum velocity in the main headers.

6.16.6 Flush the following lines to waste at the fire hose stations until effluent meets requirements.

- 209-2½" \_\_\_\_\_ / \_\_\_\_\_
- 411-2½" \_\_\_\_\_ / \_\_\_\_\_
- 410-2½" \_\_\_\_\_ / \_\_\_\_\_
- 409-2½" \_\_\_\_\_ / \_\_\_\_\_
- 408-2½" \_\_\_\_\_ / \_\_\_\_\_
- 203-2½" \_\_\_\_\_ / \_\_\_\_\_
- 201-2½" \_\_\_\_\_ / \_\_\_\_\_
- 204-2½" \_\_\_\_\_ / \_\_\_\_\_
- 180-2½" \_\_\_\_\_ / \_\_\_\_\_
- 179-2½" \_\_\_\_\_ / \_\_\_\_\_
- 178-2½" \_\_\_\_\_ / \_\_\_\_\_
- 177-2½" \_\_\_\_\_ / \_\_\_\_\_
- 199-2½" \_\_\_\_\_ / \_\_\_\_\_
- 176-2½" \_\_\_\_\_ / \_\_\_\_\_

6.17.6 Flush to waste through the following fire hose stations until effluent meets requirements. No more than two stations simultaneously.

213-2½"	/
214-2½"	/
215-2½"	/
216-2½"	/
217-2½"	/
218-2½"	/
233-2½"	/

6.17.7 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-110	/
R-A09	/
R-108	/
R-105	/
R-104	/
R-116	/
R-122	/
R-136	/
Restore sprinklers to original condition	/

6.17.8 Open drain and vent valves X-402 and X-375 to waste until effluent meets requirements. Close two valves.

/

181-2½"	/
183-2½"	/
184-2½"	/
084-2½"	/
206-2½"	/
014-2½"	/
205-2½"	/
208-2½"	/
088-4"	/
207-2½"	/

6.16.7 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirement. Flush in one room at a time.

R-A51	/
R-A53	/
R-B52	/
R-114	/
R-A23	/
R-A49	/
R-A03	/
R-A04	/
R-A05	/
R-A17	/
R-111	/
R-A15	/
R-A19	/
R-A50	/

R-A40A \_\_\_\_\_ / \_\_\_\_\_  
 1T5A (Tunnel) \_\_\_\_\_ / \_\_\_\_\_  
 1T5B (Tunnel) \_\_\_\_\_ / \_\_\_\_\_  
 Restore sprinklers to original \_\_\_\_\_ / \_\_\_\_\_  
 condition

6.16.8 Open drain and vent valves X-305, X-107, X-307, X-304,  
 X-090, X-302, X-303, X-020, X-358, X-035. Flush, then  
 close these valves.  
 \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.16 COMPLETED BY:

\_\_\_\_\_  
 SIGNATURE / DATE

6.17 AUXILIARY BUILDING LEVEL 1 - DWG. 1X4DB174-2

6.17.1 Verify that Startup System KC, Fire Protection Water  
 System piping and equipment required for Section 6.17  
 are complete and operable.  
 \_\_\_\_\_ / \_\_\_\_\_

6.17.2 Initial Valve Lineup for Section 6.17 on Attachment 10.1  
 is complete.  
 \_\_\_\_\_ / \_\_\_\_\_

6.17.3 Temporary Modifications for Section 6.17 on Attachment  
 10.3 are complete.  
 \_\_\_\_\_ / \_\_\_\_\_

6.17.4 Verify that pump P4-003 is in service.  
 \_\_\_\_\_ / \_\_\_\_\_

6.17.5 Open valve 2-2301-135 and temporary isolation valve at  
 A-2301-123. Flush line 079-6" to waste from valve 123  
 until effluent meets requirements.  
 \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.17 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.18 AUXILIARY BUILDING LEVEL 2-DWG. 1X4DB174-2

6.18.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.18 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_  
6.18.2 Initial Valve Lineup for Section 6.18 on Attachment 10.1 is complete.

\_\_\_\_\_/\_\_\_\_\_  
6.18.3 Temporary Modifications for Section 6.18 on Attachment 10.3 are complete.

\_\_\_\_\_/\_\_\_\_\_  
6.18.4 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
6.18.5 Open temporary isolation valve at A-2301-122. Flush line 078-6" to waste from valve 122 until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
6.18.6 Flush to waste through the following fire hose stations until effluent meets requirements. No more than two stations flushed simultaneously.

- 211-2½" \_\_\_\_\_/\_\_\_\_\_
- 212-2½" \_\_\_\_\_/\_\_\_\_\_
- 223-2½" \_\_\_\_\_/\_\_\_\_\_
- 224-2½" \_\_\_\_\_/\_\_\_\_\_
- 225-2½" \_\_\_\_\_/\_\_\_\_\_
- 226-2½" \_\_\_\_\_/\_\_\_\_\_
- 227-2½" \_\_\_\_\_/\_\_\_\_\_
- 228-2½" \_\_\_\_\_/\_\_\_\_\_



229-2½" \_\_\_\_\_ / \_\_\_\_\_  
230-2½" \_\_\_\_\_ / \_\_\_\_\_

6.18.7 Attach hoses in the fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-121 \_\_\_\_\_ / \_\_\_\_\_  
R-210 \_\_\_\_\_ / \_\_\_\_\_  
R-211 \_\_\_\_\_ / \_\_\_\_\_  
R-212 \_\_\_\_\_ / \_\_\_\_\_  
R-207 \_\_\_\_\_ / \_\_\_\_\_  
R-208 \_\_\_\_\_ / \_\_\_\_\_  
R-203 \_\_\_\_\_ / \_\_\_\_\_  
R-205 \_\_\_\_\_ / \_\_\_\_\_  
R-202 \_\_\_\_\_ / \_\_\_\_\_  
Restore sprinklers to original condition \_\_\_\_\_ / \_\_\_\_\_

6.18.8 Open drain and vent valves X-308, X-309, X-310, X-311, X-312, X-135, X-405 X-402. Flush to waste and close these valves.

SUBSECTION 6.18 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.19 PIPING PENETRATION ROOM - DWG. 1X4BD205-1

6.19.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.19 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_

6.19.2 Initial Valve Lineup for Section 6.19 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.19.3 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.19.4 Close valve TV-12625. Open valves HV-12591 and drain valve A-2301-286. Flush line 097-2" to drain until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.19.5 Close valves HV-12591 and A-2301-286.

\_\_\_\_\_ / \_\_\_\_\_

6.19.6 Close valve TV-12624. Open valves HV-12590 and A-2301-285. Flush line 057-2" to drain until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.19.7 Close valves HV-12590 and A-2301-285.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.19 COMPLETE BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.20 AUX. BLDG. CONTINUOUS EXHAUST UNIT - DWG. 1X4DB208-1

6.20.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.20 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.20.2 Initial Valve Lineup for Section 6.20 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.20.3 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.4 Close valve TV-12703. Open valves HV-12796 and drain valve A-2301-289. Flush line 400-1½" until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.5 Close valves HV-12796 and A-2301-289.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.6 Close valve TV-12696. Open valves HV-12795 and A-2301-288. Flush line 399-1½" until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.7 Close valve HV-12795 and A-2301-288.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.8 Close valve TV-12689. Open valves HV-12794 and A-2301-287. Flush line 401-1½" to drain until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.20.9 Close valve HV-12794 and A-2301-287.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

SUBSECTION 6.20 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.21 CONTAINMENT BUILDING-DWG. 1X4DB174-4

6.21.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.21 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_  
\_\_\_\_\_

6.21.2 Initial Valve Lineup for Section 6.21 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.21.3 Instrumentation for Section 6.21 on Attachment 10.2 is isolated.

\_\_\_\_\_ / \_\_\_\_\_

6.21.4 Temporary Modifications for Section 6.21 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.21.5 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.21.6 Open HV-27901 and flush through the following fire hose stations until effluent requirements are met. No more than two stations simultaneously.

382-2½" \_\_\_\_\_ / \_\_\_\_\_

383-2½" \_\_\_\_\_ / \_\_\_\_\_

384-2½" \_\_\_\_\_ / \_\_\_\_\_

385-2½" \_\_\_\_\_ / \_\_\_\_\_

396-2½" \_\_\_\_\_ / \_\_\_\_\_

386-2½" \_\_\_\_\_ / \_\_\_\_\_

387-2½" \_\_\_\_\_ / \_\_\_\_\_

392-2½" \_\_\_\_\_ / \_\_\_\_\_

393-2½" \_\_\_\_\_ / \_\_\_\_\_

394-2½" \_\_\_\_\_ / \_\_\_\_\_

395-2½" \_\_\_\_\_ / \_\_\_\_\_

238-2½" \_\_\_\_\_ / \_\_\_\_\_

237-2½" \_\_\_\_\_ / \_\_\_\_\_

240-2½" \_\_\_\_\_ / \_\_\_\_\_

239-2½" \_\_\_\_\_ / \_\_\_\_\_

241-2½" \_\_\_\_\_ / \_\_\_\_\_

388-2½" \_\_\_\_\_ / \_\_\_\_\_

6.21.7 Open the temporary isolation valves installed on the following removed PSV's and flush associated lines to waste until effluent meets requirements. Then close temporary isolation valves.

PSV-27926 \_\_\_\_\_ / \_\_\_\_\_

PSV-28002 \_\_\_\_\_ / \_\_\_\_\_

PSV-28003 \_\_\_\_\_ / \_\_\_\_\_

PSV-27931 \_\_\_\_\_ / \_\_\_\_\_

6.21.8 Open valves 132, 018, 058, X-150, X-151, X-377, X-381, X-489, X-365, X-376. Flush to waste, then close these valves.

\_\_\_\_\_ / \_\_\_\_\_

6.21.9 Attach hoses in fittings of the preaction sprinkler valves in the following rooms, and flush to waste until effluent meets requirements. Flush in one room at a time.

R.C. Pump No. 4 \_\_\_\_\_ / \_\_\_\_\_

R.C. Pump No. 1 \_\_\_\_\_ / \_\_\_\_\_

Lower A Trays \_\_\_\_\_ / \_\_\_\_\_

Lower B Trays \_\_\_\_\_ / \_\_\_\_\_

R.C. Pump No. 3 \_\_\_\_\_ / \_\_\_\_\_

Middle A Trays \_\_\_\_\_ / \_\_\_\_\_

Middle B Trays \_\_\_\_\_ / \_\_\_\_\_

Upper A Trays \_\_\_\_\_ / \_\_\_\_\_

Upper B Trays \_\_\_\_\_ / \_\_\_\_\_

R.C. Pump No. 2 \_\_\_\_\_ / \_\_\_\_\_

Restore sprinkler to original condition \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.21 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

- 6.22 CTB PREACCESS FILTER UNIT - DWG. 1X4DB213-2
- 6.22.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.22 are complete and operable.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.2 Initial Valve Lineup for Section 6.22 on Attachment 10.1 is complete.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.3 Verify that pump P4-003 is in service.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.4 Close Valve TV-12654. Open HV-12958 and the drain valve A-2301-319. Flush line 235-1½" to waste until effluent meets requirements.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.5 Close valves HV-12958 and A-2301-319.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.6 Close valve TV-12655. Open HV-12987 and the drain valve A-2301-320. Flush line 236-1½" to waste until effluent meets requirements.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.7 Close valve HV-12987 and A-2301-320.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.8 Close valves 150 and 029. Restore PSV's 27931, 28277, 28002 and 28003 to original condition. Open valves 150 and 029.  
\_\_\_\_\_/\_\_\_\_\_
- 6.22.9 Close valve HV-27901.  
\_\_\_\_\_/\_\_\_\_\_

SUBSECTION 6.22 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

- 6.23 CONTROL BUILDING LEVEL B - DWG. 1X4DB174-3
- 6.23.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6. are complete and operable.  
\_\_\_\_\_/\_\_\_\_\_
- 6.23.2 Initial Valve Lineup for Section 6.23 on Attachment 10.1 is complete.  
\_\_\_\_\_/\_\_\_\_\_
- 6.23.3 Temporary Modifications for Section 6.23 on Attachment 10.3 are complete.  
\_\_\_\_\_/\_\_\_\_\_
- 6.23.4 Verify that pump P4-063 is in service.  
\_\_\_\_\_/\_\_\_\_\_
- 6.23.5 Close isolation valve 2-2301-050. Open 1-2301-050. Open temporary isolation valve at valve 101. Flush line 048-4" to waste through valve 101 until effluent meets requirements.  
\_\_\_\_\_/\_\_\_\_\_
- 6.23.6 Close the following valves:
  - 279 \_\_\_\_\_/\_\_\_\_\_
  - 278 \_\_\_\_\_/\_\_\_\_\_
  - 277 \_\_\_\_\_/\_\_\_\_\_
- 6.23.7 Flush the following lines to waste at the fire hose stations until effluent meets requirements. No more than 2 stations simultaneously.
  - 281-2½" \_\_\_\_\_/\_\_\_\_\_
  - 249-2½" \_\_\_\_\_/\_\_\_\_\_
  - 407-2½" \_\_\_\_\_/\_\_\_\_\_

251-2½"	/
248-2½"	/
284-2½"	/
287-2½"	/
288-2½"	/
289-2½"	/
283-2½"	/
371-2½"	/
285-2½"	/
286-2½"	/

6.23.8 Open the following drain and vent isolation valves and flush the associated drain lines to waste. Close isolation valves.

X-053	/
X-017	/
X-063	/
X-097	/
X-101	/
X-102	/
X-096	/
X-099	/
X-103	/
X-087	/
X-142	/
X-098	/
X-123	/



X-057	_____ / _____
X-018	_____ / _____
X-064	_____ / _____
X-100	_____ / _____
X-124	_____ / _____
X-019	_____ / _____
X-136	_____ / _____
X-140	_____ / _____
X-400	_____ / _____

6.23.9 Flush Line 054-2½" to waste at temporary isolation valve A-2301-385 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.23.10 Attach hoses in fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room as a time.

R-B50	_____ / _____
R-B60	_____ / _____
R-B70	_____ / _____
R-B81	_____ / _____
R-B78	_____ / _____
R-B63	_____ / _____
R-B64	_____ / _____
R-B65	_____ / _____
R-B73	_____ / _____
R-B77	_____ / _____
R-B65	_____ / _____
R-C01	_____ / _____

R-C02 \_\_\_\_\_ / \_\_\_\_\_  
R-C03 \_\_\_\_\_ / \_\_\_\_\_  
R-C06 \_\_\_\_\_ / \_\_\_\_\_  
R-C09 \_\_\_\_\_ / \_\_\_\_\_  
Restore sprinklers to original \_\_\_\_\_ / \_\_\_\_\_  
condition.

6.23.11 Remove valve bonnets in valves 057, 172, 175 and 176.  
Install adaptors in the four valve bodies with hoses  
leading to drains.

\_\_\_\_\_ / \_\_\_\_\_

6.23.12 Flush the following lines to waste until effluent meets  
requirements.

413-2" \_\_\_\_\_ / \_\_\_\_\_  
338-2" \_\_\_\_\_ / \_\_\_\_\_  
342-2" \_\_\_\_\_ / \_\_\_\_\_  
343-2" \_\_\_\_\_ / \_\_\_\_\_

6.23.13 Restore valves 057, 172, 175, and 176 to original state.

\_\_\_\_\_ / \_\_\_\_\_

6.23.14 Open valve 279 and temporary isolation valve at  
A-2301-121. Close valve 094 (Level B Aux. Bldg.)

\_\_\_\_\_ / \_\_\_\_\_

6.23.15 Flush line 043-4" to waste at valve A-2301-121 until  
effluent meets requirements. Close temporary isolation  
valve 121.

\_\_\_\_\_ / \_\_\_\_\_

6.23.16 Flush the following lines to waste from the fire hose  
stations until effluent meets requirements flush no more  
than two hose stations simultaneously.

041-2½" \_\_\_\_\_ / \_\_\_\_\_  
256-2½" \_\_\_\_\_ / \_\_\_\_\_  
259-2½" \_\_\_\_\_ / \_\_\_\_\_



6.24.5 Open valve 094 and 277. Close valve 114. Flush line 268-4" through the following fire hose stations until effluent meets requirements. No more than two stations simultaneously.

374-2½"	_____ / _____
280-2½"	_____ / _____
279-2½"	_____ / _____
275-2½"	_____ / _____
271-2½"	_____ / _____
273-2½"	_____ / _____
269-2½" (Diesel Gen. Bldg.)	_____ / _____

6.24.6 Attach hoses in fittings of the preaction sprinkler valves downstream of valve 029, and flush remainder of line 268-4" to waste until effluent meets requirements. Restore sprinklers to original condition.

\_\_\_\_\_ / \_\_\_\_\_

6.24.7 Close valve 096. Open valve 278. Flush line 277-4" to waste through the following fire hose stations until effluent meets requirement. No more than two fire hoses simultaneously.

210-2½"	_____ / _____
154-2½"	_____ / _____
153-2½"	_____ / _____
152-2½"	_____ / _____
150-2½"	_____ / _____
151-2½"	_____ / _____
276-2½"	_____ / _____

6.24.8 Attach hoses in fittings of the preaction sprinkler valves downstream of valve 030, and flush remainder of line 277-4" to waste until effluent meets requirements. Restore sprinklers to original condition.

\_\_\_\_\_ / \_\_\_\_\_

6.24.9 Open valves 114 and 096.

\_\_\_\_\_ / \_\_\_\_\_

6.24.10 Open vent valves X-126 and X-127 and flush to waste until visually clean. Close two valves.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.24 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.25 CONTROL BUILDING LEVEL A-DWG. 1X4DB174-3

6.25.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.25 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.25.2 Initial Valve Lineup for Section 6.25 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.25.3 Temporary Modifications for Section 6.25 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.25.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.25.5 Close the following valves:

102

\_\_\_\_\_ / \_\_\_\_\_

- 351 \_\_\_\_\_ / \_\_\_\_\_
- 049 \_\_\_\_\_ / \_\_\_\_\_
- 6.25.6 Open Temporary Isolation Valve at valve 274. Flush line 047-6" to waste from valve 274 until effluent meets requirements. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.7 Close valves 186 and 274. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.8 Open valve 049. Flush line 300-4" to waste from the Temporary Isolation Valve at valve 185 until visually clean. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.9 Open valve 186. Close valves 077 and 187. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.10 Flush line 311-4" to waste from valve 185 until effluent meets requirements. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.11 Open valve 187. Close valve 170 and flush line 300-6" through valve 185. \_\_\_\_\_ / \_\_\_\_\_
- 6.25.12 Flush the following lines to waste at the fire hose stations until effluent meets requirements. Not more than two hoses simultaneously.
- 291-2½" \_\_\_\_\_ / \_\_\_\_\_
- 292-2½" \_\_\_\_\_ / \_\_\_\_\_
- 296-2½" \_\_\_\_\_ / \_\_\_\_\_
- 297-2½" \_\_\_\_\_ / \_\_\_\_\_
- 298-2½" \_\_\_\_\_ / \_\_\_\_\_
- 301-2½" \_\_\_\_\_ / \_\_\_\_\_

302-2½"	/
304-2½"	/
306-2½"	/
307-2½"	/
308-2½"	/
316-2½"	/
315-2½"	/
149-2½"	/
139-2½"	/
138-2½"	/
312-2½"	/
313-2½"	/
314-2½"	/

6.25.13 Open valve 351 and temporary isolation valve at valve A-363. Flush to waste until effluent meets requirements through temporary isolation valve A-363 and fire hose station on line 310-2½".

/

6.25.14 Attach hoses in fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-A39	/
R-B45	/
R-A40	/
R-B46	/
R-A44	/
R-A51	/

R-A52	/
R-A53	/
R-A55	/
R-A59	/
R-A62	/
R-A65	/
R-A47	/
R-B59	/
R-A46	/
R-B58	/
R-A70	/
R-A58	/
R-A44	/
Restore sprinklers to original condition.	/

6.25.15 Open the following vent and drain valves and flush to waste until visually clean:

X-403	/
X-402	/
X-162	/
X-262	/
X-350	/
X-153	/
X-161	/
X-317	/
X-175	/
X-154	/





6.26.3 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.26.4 Close valve TV-12559 and open HV-12569 and drain valve A-2301-300. Flush line 405-2" to drain until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.26.5 Close valves A-2301-300 and HV-12569.

\_\_\_\_\_ / \_\_\_\_\_

6.26.6 Close valve TV-12558 and open HV-12570 and drain valve A-2301-301. Flush line 404-2" to drain until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.26.7 Close valves HV-12570 and A-2301-301.

\_\_\_\_\_ / \_\_\_\_\_

6.26.8 Flush line 311-4" to waste from the temporary isolation valve installed at valve 102.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.26 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.27 CONTROL BUILDING LEVEL 1 - DWG. 1X4DB174-3

6.27.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.27 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.27.2 Initial Valve Lineup for Section 6.27 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.27.3 Temporary Modifications for Section 6.27 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

- 6.27.4 Verify that pump P4-003 is in service. \_\_\_\_\_ / \_\_\_\_\_
- 6.27.5 Close valves 040 and 2-2301-048. \_\_\_\_\_ / \_\_\_\_\_
- 6.27.6 Open Temporary Isolation Valve at valve A-2301-271. Flush line 046-6" to waste from valve 271 until effluent meets criteria. \_\_\_\_\_ / \_\_\_\_\_
- 6.27.7 Open valves 040 and the Temporary Isolation Valve at valve 1-2301-060. Close valve 167 and flush line 335-4 to waste from valve 060 until effluent meets requirements. \_\_\_\_\_ / \_\_\_\_\_
- 6.27.8 Flush the following lines to waste at the fire hose stations until effluent meets requirements. No more than 2 stations simultaneously.
- 321-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 322-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 317-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 318-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 420-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 418-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 263-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 319-2½" \_\_\_\_\_ / \_\_\_\_\_
- 6.27.9 Attach hoses in fittings of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.
- Room R-120 \_\_\_\_\_ / \_\_\_\_\_
  - R-128 \_\_\_\_\_ / \_\_\_\_\_
  - R-138 \_\_\_\_\_ / \_\_\_\_\_

R-141 \_\_\_\_\_ / \_\_\_\_\_  
R-145 \_\_\_\_\_ / \_\_\_\_\_  
R-147 \_\_\_\_\_ / \_\_\_\_\_  
R-149 \_\_\_\_\_ / \_\_\_\_\_  
R-154 \_\_\_\_\_ / \_\_\_\_\_

Restore sprinklers to original condition. \_\_\_\_\_ / \_\_\_\_\_

6.27.10 Remove valve bonnets on valves 030 and 031. Install adapters on the two valve bodies with hoses leading to drains.

6.27.11 Flush the following lines to waste until effluent meets requirements.

421-2" \_\_\_\_\_ / \_\_\_\_\_  
419-4" \_\_\_\_\_ / \_\_\_\_\_

6.27.12 Restore valves 030 and 031 to original state.

6.27.13 Close valve TV-21012. Open valves HV-21013 and drain valve A-2301-309. Flush Line 422-2" until effluent meets requirements.

6.27.14 Close valves HV-21013 and A-2301-309.

6.27.15 Open the following vent and drain valves and flush to waste until visually clean:

X-214 \_\_\_\_\_ / \_\_\_\_\_  
X-215 \_\_\_\_\_ / \_\_\_\_\_  
X-324 \_\_\_\_\_ / \_\_\_\_\_  
X-348 \_\_\_\_\_ / \_\_\_\_\_

X-349 \_\_\_\_\_ /  
X-346 \_\_\_\_\_ /  
X-345 \_\_\_\_\_ /  
X-344 \_\_\_\_\_ /  
X-343 \_\_\_\_\_ /  
X-342 \_\_\_\_\_ /  
X-228 \_\_\_\_\_ /  
X-328 \_\_\_\_\_ /  
X-210 \_\_\_\_\_ /  
X-209 \_\_\_\_\_ /  
X-329 \_\_\_\_\_ /  
X-331 \_\_\_\_\_ /  
X-330 \_\_\_\_\_ /  
X-325 \_\_\_\_\_ /  
X-208 \_\_\_\_\_ /  
X-326 \_\_\_\_\_ /  
X-325 \_\_\_\_\_ /  
Close all valves. \_\_\_\_\_ /

SUBSECTION 6.27 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.28 CONTROL BUILDING LEVEL 2 - DWG. 1X4DB174-3

6.28.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.28 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_

6.28.2 Initial Valve Lineup for Section 6.28 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.29.3 Temporary Modifications for Section 6.28 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.28.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.28.5 Open valve 167 and temporary isolation valve at A-2301-207. Close valve 206 and flush line 320-4" to waste through valve 207 until effluent meets requirements. Close valve 167.

\_\_\_\_\_ / \_\_\_\_\_

6.28.6 Open valve 206. Flush line 330-6" to waste at A-2301-207 until effluent requirements are met. Open valve 167.

\_\_\_\_\_ / \_\_\_\_\_

6.28.7 Attach hoses in the fittings of preaction sprinkler valves in the following rooms, and flush to waste until effluent meets requirements. Flush in one room at a time.

- Room R-227 \_\_\_\_\_ / \_\_\_\_\_
- R-228 \_\_\_\_\_ / \_\_\_\_\_
- R-239 \_\_\_\_\_ / \_\_\_\_\_
- R-245 \_\_\_\_\_ / \_\_\_\_\_
- R-251 \_\_\_\_\_ / \_\_\_\_\_
- R-225 \_\_\_\_\_ / \_\_\_\_\_
- R-230 \_\_\_\_\_ / \_\_\_\_\_
- R-231 \_\_\_\_\_ / \_\_\_\_\_
- R-232 \_\_\_\_\_ / \_\_\_\_\_
- R-233 \_\_\_\_\_ / \_\_\_\_\_

R-237	_____ / _____
R-241	_____ / _____
R-247	_____ / _____
R-242	_____ / _____

Restore the sprinklers to their previous state.

\_\_\_\_\_ / \_\_\_\_\_

6.28.8 Close valve TV-12779. Open valve HV-12798 and drain valve A-2301-323. Flush line 406-2" to drain until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.28.9 Close valves HV-12798 and A-2301-323.

\_\_\_\_\_ / \_\_\_\_\_

6.28.10 Flush to waste through the following fire hose stations until effluent meets requirements. Flush all four simultaneously.

323-2½"	_____ / _____
325-2½"	_____ / _____
328-2½"	_____ / _____
327-2½"	_____ / _____

6.28.11 Flush line 045-6" to waste through the temporary isolation valve installed at the Unit 2 interface.

\_\_\_\_\_ / \_\_\_\_\_

6.28.12 Open the following vent and drain valves and flush to waste until visually clean:

X-230	_____ / _____
X-232	_____ / _____
X-231	_____ / _____
X-227	_____ / _____
X-226	_____ / _____
X-225	_____ / _____

Close all valves. \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.28 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

- 6.29 CONTROL BUILDING LEVEL 3 - DWG. 1X4DB174-3
- 6.29.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.29 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.2 Initial Valve Lineup for Section 6.29 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.3 Temporary Modifications for Section 6.29 on Attachment 10.3 are complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.4 Verify that pump P4-003 is in service.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.5 Close valve 213. Open temporary isolation valve at valve 273 and flush line 072-6" to waste until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.6 Open valve 213. Flush line 340-6" to waste at Unit 2 isolation valve 2-2301-210 until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.29.7 Flush to waste through the following fire hose stations until effluent meets requirements. No more than four simultaneously.
  - 049-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 056-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 352-2½" \_\_\_\_\_ / \_\_\_\_\_
  - 348-2½" \_\_\_\_\_ / \_\_\_\_\_



345-2½" \_\_\_\_\_ /  
349-2½" \_\_\_\_\_ /  
336-2½" \_\_\_\_\_ /

6.29.8 Attach hoses in place of the preaction sprinkler valves in the following rooms and flush to waste until effluent meets requirements. Flush in one room at a time.

R-324 \_\_\_\_\_ /  
R-320 \_\_\_\_\_ /  
R-321 \_\_\_\_\_ /  
R-323 \_\_\_\_\_ /  
R-325 \_\_\_\_\_ /  
R-317 \_\_\_\_\_ /  
R-312 \_\_\_\_\_ /  
R-313 \_\_\_\_\_ /  
R-314 \_\_\_\_\_ /  
R-316 \_\_\_\_\_ /  
R-319 \_\_\_\_\_ /  
R-322 \_\_\_\_\_ /

Restore the sprinklers to the previous state.

\_\_\_\_\_ /

6.29.9 Close valve TV-12543. Open valve HV-12486 and drain valve A-2301-284. Flush line 339-2" to waste until effluent meets requirements.

\_\_\_\_\_ /

6.29.10 Close valves HV-12486 and A-2301-284.

\_\_\_\_\_ /

6.29.11 Close valve TV-12544. Open HV-12487 and drain valve A-2301-283. Flush line 341-2" to waste until effluent meets requirements.

\_\_\_\_\_ /

6.29.12 Close valves HV-12487 and A-2301-283.

\_\_\_\_\_ / \_\_\_\_\_

6.29.13 Open the following vent and drain valves and flush to waste until visually clean:

A-2301-X-002 \_\_\_\_\_ / \_\_\_\_\_

X-262 \_\_\_\_\_ / \_\_\_\_\_

X-384 \_\_\_\_\_ / \_\_\_\_\_

X-253 \_\_\_\_\_ / \_\_\_\_\_

X-252 \_\_\_\_\_ / \_\_\_\_\_

X-251 \_\_\_\_\_ / \_\_\_\_\_

X-250 \_\_\_\_\_ / \_\_\_\_\_

X-248 \_\_\_\_\_ / \_\_\_\_\_

X-286 \_\_\_\_\_ / \_\_\_\_\_

Close all valves. \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.29 COMPLETED BY:

\_\_\_\_\_  
SIGNATURE / DATE

6.30 CONTROL BUILDING CONTROL ROOM HVAC DWG. AX4DB206-3

6.30.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.30 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.30.2 Initial Valve Lineup for Section 6.30 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.30.3 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.30.4 Close valve 1TV-12134. Open 1HV-12193 and drain valve A-2301-305. Flush line 347-2" to waste until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.30.5 Close valves 1HV-12193 and A-2301-305.

\_\_\_\_\_ / \_\_\_\_\_

6.30.6 Close valve 1TV-12135. Open 1HV-12194 and drain valve A-2301-304. Flush line 337-2" to waste until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.30.7 Close valves 1HV-12194 and A-2301-304.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.30 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.31 DIESEL GENERATOR BUILDING - DWG. 1X4DB174-4

6.31.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.31 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.31.2 Initial Valve Lineup for Section 6.31 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.31.3 Temporary Modifications for Section 6.31 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.31.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.31.5 Close valve 115 and 072. Flush line 272-6" out of FHS on line 276-2½" until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.31.6 Attach hoses in fittings of the preaction sprinkler valves at the end of line 272-6" and flush to waste until effluent meets requirements. Restore sprinkler to previous condition.

\_\_\_\_\_ / \_\_\_\_\_

6.31.7 Open valve 115 and close valve 096. Flush line 268-4" to waste at fire hose station until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.31.8 Attach hoses in fittings of the preaction sprinkler valves at the end of line 122-6" and flush to waste until effluent meets requirements. Restore sprinklers to previous condition. Open valves 096 and 072.

\_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.31 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.32 FUEL HANDLING BUILDING - DWG. 1X4DB174-4

6.32.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.32 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.32.2 Initial Valve Lineup for Section 6.32 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.32.3 Instrumentation for Section 6.32 on Attachment 10.2 is isolated.

\_\_\_\_\_ / \_\_\_\_\_

6.32.4 Temporary Modifications for Section 6.32 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.32.5 Close the temporary isolation valves installed at the following valves:

A-2301-103	_____ / _____
A-2301-292	_____ / _____
A-2301-298	_____ / _____
2-2301-074	_____ / _____

6.32.6 Flush line 059-6" through HV-27903 to waste through temporary isolation valve at A-2301-103 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.32.7 Flush line 221-4" to waste at temporary isolation valve at A-2301-298 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.32.8 Flush to waste at the following fire hose stations. No more than two stations simultaneously.

062-2½"	_____ / _____
360-2½"	_____ / _____
354-2½"	_____ / _____
361-2½"	_____ / _____
061-2½"	_____ / _____

6.32.9 Attach hoses in fittings of preaction sprinkler valves in the following rooms, and flush to waste until effluent meets requirements. Flush in one room at a time.

R-C07	_____ / _____
R-C08	_____ / _____
R-C09	_____ / _____
R-B11	_____ / _____

Restore the sprinkler to previous state

\_\_\_\_\_ / \_\_\_\_\_

6.32.10 Flush line 060-4" through temporary isolation valve at A-2301-292 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.32.11 Flush line 075-2½" through temporary isolation valve at 2-2301-74 until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.32.12 Flush the following lines to waste simultaneously from the following fire hose station until requirements are met.

357-2½"

\_\_\_\_\_ / \_\_\_\_\_

121-2½"

\_\_\_\_\_ / \_\_\_\_\_

6.32.13 Attach hoses in fittings of preaction sprinkler valves in the following rooms, and flush to waste until effluent meets requirements. Flush in one room at a time.

R-A07

\_\_\_\_\_ / \_\_\_\_\_

R-A08

\_\_\_\_\_ / \_\_\_\_\_

R-409

\_\_\_\_\_ / \_\_\_\_\_

R-A10

\_\_\_\_\_ / \_\_\_\_\_

R-104

\_\_\_\_\_ / \_\_\_\_\_

R-B12

\_\_\_\_\_ / \_\_\_\_\_

Restore the sprinklers to previous condition

\_\_\_\_\_ / \_\_\_\_\_

6.32.14 Flush the following lines to waste simultaneously from the following fire hose stations.

355-2½"

\_\_\_\_\_ / \_\_\_\_\_

359-2½"

\_\_\_\_\_ / \_\_\_\_\_

074-2½"

\_\_\_\_\_ / \_\_\_\_\_

6.32.15 Open the following vent and drain valves and flush to waste until visually clean:

X-071	_____ / _____
X-070	_____ / _____
X-267	_____ / _____
X-068	_____ / _____
X-069	_____ / _____
X-372	_____ / _____
Close all valves.	_____ / _____

SUBSECTION 6.32 COMPLETED BY:

_____ / _____
SIGNATURE / DATE

6.33 EQUIPMENT BUILDING -DWG. 14DB174-4

6.33.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.33 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.33.2 Initial Valve Lineup for Section 6.33 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.33.3 Temporary Modifications for Section 6.33 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.33.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.33.5 Flush line 220-4" to waste until effluent meets requirements, from the following fire hose stations.

265-2½" \_\_\_\_\_ / \_\_\_\_\_

264-2½" \_\_\_\_\_ / \_\_\_\_\_

6.33.6 Attach hoses in fittings of preaction sprinkler valves in the equipment building exit corridor, and flush to waste through remainder of line 220-4" until effluent meets requirements.

\_\_\_\_\_ / \_\_\_\_\_

6.33.7 Close valve 256, open valve 270, and flush line 220-6" to waste through the same hoses. Restore the sprinklers to previous condition and open valve 256.

\_\_\_\_\_ / \_\_\_\_\_

6.33.8 Open the following vent and drain valves and flush to waste until visually clean:

X-360 \_\_\_\_\_ / \_\_\_\_\_

X-361 \_\_\_\_\_ / \_\_\_\_\_

X-363 \_\_\_\_\_ / \_\_\_\_\_

X-207 \_\_\_\_\_ / \_\_\_\_\_

X-362 \_\_\_\_\_ / \_\_\_\_\_

X-288 \_\_\_\_\_ / \_\_\_\_\_

X-364 \_\_\_\_\_ / \_\_\_\_\_

Close all valves. \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.33 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.34 CTB PURGE FILTER EXHAUST UNIT - DWG. 1X4DB174-4 AND 1X4DB213-1

6.34.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.34 are complete and operable.

\_\_\_\_\_ / \_\_\_\_\_

6.34.2 Initial Valve Lineup for Section 6.34 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_



6.34.3 Temporary Modifications for Section 6.34 on Attachment 10.3 are complete.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.4 Verify that pump P4-003 is in service.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.5 Close valve TV-12653. Open valve HV-12986 and drain valve A-2301-321. Flush line 220-1½" to waste until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.6 Close valves HV-12986 and A-2301-321.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.7 Close valve TV-12651. Open valve HV-12658 and drain valve A-2301-322. Flush lines 014-2" and 222-2" to waste until effluent meets requirements.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.8 Close valves HV-12658 and A-2301-322.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.9 Close HV-27961. Open temporary isolation valve at valve 060 and flush line 335-4" until effluent meets requirements. Open HV-27961.

\_\_\_\_\_/\_\_\_\_\_  
/

6.34.10 Restore valve 060 in open position.

\_\_\_\_\_/\_\_\_\_\_  
/

SUBSECTION 6.34 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

6.35 AUXILIARY FEEDWATER PUMPHOUSE - DWG. 1X4DB174-4

6.35.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.35 are complete and operable.

\_\_\_\_\_/\_\_\_\_\_  
/

6.35.2 Initial Valve Lineup for Section 6.35 on Attachment 10.1 is complete.

\_\_\_\_\_ / \_\_\_\_\_

6.35.3 Temporary Modifications for Section 6.35 on Attachment 10.3 are complete.

\_\_\_\_\_ / \_\_\_\_\_

6.35.4 Verify that pump P4-003 is in service.

\_\_\_\_\_ / \_\_\_\_\_

6.35.5 Flush simultaneously through the following fire hose stations until effluent meets requirements.

115-2½" \_\_\_\_\_ / \_\_\_\_\_

116-2½" \_\_\_\_\_ / \_\_\_\_\_

119-2½" \_\_\_\_\_ / \_\_\_\_\_

6.35.6 Attach hoses in fittings of the preaction sprinkler valves at the end of the following lines and flush to waste until effluent meets requirements.

113-6" \_\_\_\_\_ / \_\_\_\_\_

117-6" \_\_\_\_\_ / \_\_\_\_\_

120-6" \_\_\_\_\_ / \_\_\_\_\_

Restore sprinklers to previous state \_\_\_\_\_ / \_\_\_\_\_

6.35.7 Open the following vent and drain valves briefly, flush to waste, then close valves.

X-373 \_\_\_\_\_ / \_\_\_\_\_

X-321 \_\_\_\_\_ / \_\_\_\_\_

X-323 \_\_\_\_\_ / \_\_\_\_\_

SUBSECTION 6.35 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

- 6.36 TURBINE BUILDING - DWG. 1X4DB173
- 6.36.1 Verify that Startup System KC, Fire Protection Water System piping and equipment required for Section 6.36 are complete and operable.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.2 Initial Valve Lineup for Section 6.36 on Attachment 10.1 is complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.3 Instrumentation for Section 6.36 on Attachment 10.2 is isolated.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.4 Temporary Modifications for Section 6.36 on Attachment 10.3 are complete.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.5 Verify that pump P4-003 is in service.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.6 Flush lines 536-12" and 536-10" to waste from temporary isolation valve at A-2301-686 until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.7 Flush line 537-10" to waste from temporary isolation valve at A-2301-687 until effluent meets requirements.  
\_\_\_\_\_ / \_\_\_\_\_
- 6.36.8 Flush the following fire hose stations to waste until effluent meets requirements. Flush no more than two simultaneously.
- |     |               |
|-----|---------------|
| 526 | _____ / _____ |
| 527 | _____ / _____ |
| 528 | _____ / _____ |
| 537 | _____ / _____ |
| 529 | _____ / _____ |

530	/
531	/
532	/
533	/
534	/
535	/
536	/
538	/
539	/
540	/
541	/
542	/
543	/
544	/
545	/
546	/
547	/
548	/
549	/
550	/
551	/
552	/
553	/
554	/

6.36.9 Flush line 538-8" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-500, flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.10 Restore line 538-8" and attach hoses in the fittings of the wet sprinkler valves in the lube oil spill area (Level 1, Fl. El. 220'). Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.11 Flush drain valve 832 and reinstall strainer 1-2301-F4-500.

\_\_\_\_\_  
/

6.36.12 Flush line 758-8" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-505. Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.13 Restore line 758-8" and attach hoses in the fittings of the wet sprinkler valves in the lube oil spill area (Level A, Fl. El. 195'). Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.14 Flush drain valve 904 to waste and reinstall strainer 1-2301-F4-505.

\_\_\_\_\_  
/

6.36.15 Flush line 759-8" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-504. Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.16 Restore line 759-8" and attach hoses in the fittings of the wet sprinkler valves in the lube oil spill area (Level 1, EL. 220). Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.17 Flush drain valve 550 to waste and reinstall strainer 1-2301-F4-504.

\_\_\_\_\_  
/

6.36.18 Flush line 539-6" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-501. Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.19 Restore line 539-6". Attach hoses in place of the wet pipe sprinkler valves in the battery room (Level 1, El.220'). Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.20 Flush the remainder of line 539-6" from the four hoses attached to valves 685, 516, 524, and 523. Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.21 Restore valves 685, 516, 523, and 524.

\_\_\_\_\_  
/

6.36.22 Flush drain valve 831 and reinstall strainer 1-2301-F4-501.

\_\_\_\_\_  
/

6.36.23 Flush line 550-6" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-502. Flush until effluent requirements are met.

\_\_\_\_\_  
/

6.36.24 Restore line 550-6" and flush to waste at the hoses attached to valves 533, 534, 535 and 548, until effluent meets requirements.

\_\_\_\_\_  
/

6.36.25 Restore valves 533, 534, 535, and 548.

\_\_\_\_\_  
/

6.36.26 Flush drain valve 830 to waste and restore strainer 1-2301-F4-502.

\_\_\_\_\_  
/

6.36.27 Flush line A-2301-703-6" to waste through valve A-2301-827 until effluent meets requirements. Then close valve 827.

\_\_\_\_\_  
/

6.36.28 Flush line 547-6" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-503. Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.29 Restore line 547-6" and attach hoses to the fittings of the preaction sprinkler valves (Level 3, Fl. El. 270'). Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.30 Flush drain valve 829 to waste and reinstall strainer 1-2301-F4-503.

\_\_\_\_\_  
/

6.36.31 Flush line 761-8" to waste at temporary isolation valve installed at removed strainer 1-2301-F4-506. Flush until effluent meets requirements.

\_\_\_\_\_  
/

6.36.32 Restore line 761-8" and attach hoses to the fittings of the wet sprinkler valves in the lube oil spill area (Level 2, Fl. El. 245'). Flush to waste until effluent meets requirements.

\_\_\_\_\_  
/

6.36.33 Flush drain valve 555 to waste and reinstall strainer 1-2301-F4-506.

\_\_\_\_\_  
/

6.36.34 Flush all vents and drains and test connections associated with Section 6.36 to waste until visually clean.

\_\_\_\_\_  
/

6.36.35 Flush instrumentation for Section 6.36 on Attachment 10.2 to waste until effluent is visually clean.

\_\_\_\_\_  
/

SUBSECTION 6.36 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

SECTION 6.0 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
SIGNATURE DATE

- 7.0 DATA SHEETS
- 7.1 FLUSH WATER CHEMISTRY DATA SHEETS (NONE)
- 7.2 CLEANNES VERIFICATION OF HAND CLEANING

FOR INFORMATION ONLY



VEGP-1  
1-1KC-01  
REV. 0

DATA SHEET 7.2

CLEANNES VERIFICATION OF HAND CLEANING

PROCEDURE NAME Fire Protection Water Flush

CLEANNES CLASS D DATE \_\_\_\_\_

P & ID/DRAWINGS/REV. NO. CX4DB173-1

STEP NO. 6.1.6

COMPONENT/BOUNDARIES Storage Tank C-2301-T4-001

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CLEANING METHOD Hand or Fill/Drain

\_\_\_\_\_  
\_\_\_\_\_

INSPECTION METHOD \_\_\_\_\_

The above described component/piping has been cleaned and inspected and meets the acceptance criteria of the assigned cleanness class.

FLUSHING ENGINEER \_\_\_\_\_

FLUSHING COORDINATOR \_\_\_\_\_

VEGP-1  
 1-1KC-01  
 REV. 0

8.0 SYSTEM RESTORATION AND LAYUP

8.1 Verify that all modifications on Attachment 10.3 are in the After Flushing Status.

\_\_\_\_\_ / \_\_\_\_\_

8.2 Verify that all instruments on Attachment 10.2 are placed in service.

\_\_\_\_\_ / \_\_\_\_\_

8.3 Notify Operations, Control Room and Startup Scheduling that the flush of the system KC, Fire Protection, is complete, layup is not required and the system is ready for further testing or operation.

\_\_\_\_\_ / \_\_\_\_\_

8.4 No welded restoration is required.

\_\_\_\_\_ / \_\_\_\_\_

SECTION 8.0 COMPLETED BY:

\_\_\_\_\_/\_\_\_\_\_  
 SIGNATURE / DATE

9.0 ACCEPTANCE CRITERIA

9.1 The Fire Protection Water System is Cleanness Class D Acceptance Criteria shall be designated in SUM-16, Cleanness Verification Guidelines.

9.2 The Startup System KC, Fire Protection System Cleanness is satisfactory.

\_\_\_\_\_  
 FLUSHING COORDINATOR

\_\_\_\_\_/\_\_\_\_\_  
 TIME / DATE

VEGP-1  
1-1KC-01  
REV. 0

- 10.0     ATTACHMENTS
- 10.1     INITIAL VALVE LINEUP
- 10.2     INSTRUMENT LINE FLUSH STATUS
- 10.3     TEMPORARY MODIFICATION STATUS

FOR INFORMATION ONLY

VEGP-1  
1-1KC-01  
REV. 0

ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-1</u>	<u>Sections 6.1 Fire Water Storage Tank, Pump House and Yard Loop.</u>		
HV-7933	South Storage Tank Iso.	CL	/
512	South Storage Tank Drain Iso.	CL	/
HV-7941	Pump (P4-002) Suction	CL	/
002	Jockey Pump (P4-001) Suction	CL	/
016	Jockey Pump (P4-001) Miniflow	CL	/
713	Pump (P4-002) Recirc.	CL	/
011	Pump (P4-002) Discharge	CL	/
898	Pump (P4-002) Recirc.	CL	/
008	Jockey Pump (P4-001) Discharge	CL	/
HV-7932	Crossover Iso.	CL	/
HV-7935	Crossover Iso.	CL	/
HV-7930	North Storage Tank Iso.	O	/
501	North Storage Tank Drain	CL	/
HV-7940	Pump (P4-003) Suction	O	/
014	Pump P4-003) Discharge	O	/

\*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)

VEGP-1  
1-1KC-01  
REV. 0

ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-1</u>	<u>Section 6.1 Fire Water Storage Tank, Pumphouse and Yard Loop (Cont'd)</u>		
015	Pump (P4-004) Mini-Flow	O	/
110	Chem. Pet Feeder Inlet	CL	/
597	Pump (P4-003) Discharge	O	/
104	Chem. Pot. Feeder Iso.	CL	/
108	Chem. Pot. Feeder Drain	CL	/
106	Chem. Pot. Feeder Iso.	CL	/
117	Jockey Pump (P4-004) Suction	O	/
119	Jockey Pump (P4-004) Discharge	O	/
017	Sprinkler System Iso.	O	/
741	Sprinkler System Drain	CL	/
822	Pump Controller Iso.	O	/
KV-7907	Pump Controller Iso.	CL	/
023	Pump (P4-003) Recirc.	CL	/
738	Pump (P4-003) Cooler Pressure Regulator Iso.	O	/
739	Pump (P4-003) Cooler Pressure Regulator Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
Sheet 2 of 49			

VECP-1  
1-1KC-01  
REV. 0

ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION
<u>CX4DB173-1</u>	<u>Section 6.1 (Cont'd)</u>	
740	Pump (P4-003) Cooler Pressure Regulator Bypass	CL /
743	Pump (P4-003) Cooler Pressure Regulator Bypass	CL /
507	Fuel Oil Tank No. 2 Iso.	O /
019	Fuel Oil Tank No. 2 Iso.	O /
504	Fuel Oil Tank No. 2 Iso.	O /
508	Fuel Oil Tank No.2 Drain	CL /
X-599	Test Conn. Iso.	CL /
505	Diesel Pump Recirc. Iso.	O /
705	Test Manifold Iso.	CL /
706	Test Manifold Iso.	CL /
707	Test Manifold Iso.	CL /
708	Test Manifold Iso.	CL /
709	Test Manifold Iso.	CL /
710	Test Manifold Iso.	CL /
711	Test Manifold Iso.	CL /
712	Test Manifold Iso.	CL /
598	P4-004 Disch.	O /
024	P4-005 Recirc. Iso.	CL /
*O = Open CL = Closed T = Throttled L = Locked (Prefix)		
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ATTACHMENT 10.1  
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION
<u>CX4DB173-1</u>	<u>Section 6.1(Cont'd)</u>	
500	Loop Recirc. Iso.	CL /
502	External Inlet Line	CL /
HV-7943	Pump P4-005 Suction	O /
026	Pump P4-005 Disch.	O /
823	Pump Controller Iso.	O /
KV-7990	Pump Controller Iso.	CL /
731	Pump (P4-005) Cooler Pressure Regulator Iso.	O /
732	Pump (P4-005) Cooler Pressure Regulator Iso.	O /
733	Pump (P4-005) Cooler Pressure Regulator Bypass	CL /
742	Pump (P4-005) Cooler Pressure Regulator Bypass	CL /
596	Fuel Oil Tank Iso.	O /
009	Fuel Oil Tank Iso.	O /
509	Fuel Oil Tank Iso.	O /
595	Fuel Oil Tank Drain	CL /
X-652	Controller Drain Line Iso.	CL /
X-653	Controller Drain Line Iso.	CL /

\*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)





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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-2</u>	<u>Section 6.1 (Cont'd)</u>		
737	Demin. Bldg. Iso.	0	/
723	Admin. Bldg. Iso.	0	/
X-606	Vent	CL	/
774	Line 656-12" Iso.	0	/
775	Line 656-12" Iso.	0	/
776	Envir. Bldg. Iso.	0	/
779	Line 656-12" Iso.	0	/
768	Line 651-12" Iso.	0	/
612	Prod. Whse. Iso.	0	/
643	Prod. Whse. Iso.	0	/
809	Line 651-12" Iso.	0	/
1-2301-770	Control Building Supply	0	/
808	Line 651-12" Iso.	0	/
A-2301-810	Rad. Bldg. Iso.	0	/
A-2301-811	Rad. Bldg. Iso.	0	/
R84	Rad. Bldg. Iso.	0	/
676	Rad. Bldg. Iso.	0	/
662	Line 515-12" Iso.	0	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-2</u>	<u>Section 6.1 (Cont'd)</u>		
639	Line 515-12" Iso.	0	/
1-2301-726	Aux. Bldg. Iso.	0	/
2-2301-726	Aux. Bldg. Iso.	0	/
A-2301-812	Field Support Bldg.	0	/
781	Line 515-12" Iso.	0	/
791 .	Line 667-12" Iso.	CL	/
638	Line 515-12" Iso.	0	/
634	Line 515-12" Iso.	0	/
637	Line 515-12" Iso.	0	/
632	Line 515-12" Iso.	0	/
622	Line 517-12" Iso.	0	/
642	Line 515-12" Iso.	0	/
667	Line 515-12" Iso.	CL	/
716	Line 523-8" Iso.	0	/
N09	Line 515-12" Iso.	CL	/
645	Line 515-12" Iso.	0	/
650	Line 515-12" Iso.	0	/

\*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)

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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB173-2</u>	<u>Sections 6.1 (Cont'd)</u>		
826	Line 700-12" Iso.	CL	/
799	Line 515-12" Iso.	0	/
798	Line 515-12" Iso.	0	/
2-2301-748	Low Voltage Switchyard Iso.	0	/
797	Line 515-12" Iso.	0	/
796	Line 515-12" Iso.	0	/
A-2301-747	High Voltage Switchyard Iso.	0	/
651	Line 515-12" Iso.	0	/
794	Line 515-12" Iso.	0	/
1-2301-748	Line 569-6" Iso.	0	/
792	Line 515-12" Iso.	0	/
825	Line 700-12" Iso.	0	/
<u>CX4DB173-2</u>	<u>Section 6.2 Fire Hydrants at Yard Loop.</u>		
674	Line 569-6" Iso.	0	/
675	Fire Hydrant (992) Iso.	0	/
806	Fire Hydrant (947) Iso.	0	/
803	Fire Hydrant (925) Iso.	0	/
*0 = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-2</u>	<u>Section 6.2 Fire Hydrants at Yard Loop. (Cont'd)</u>		
805	Fire Hydrant (924) Iso.	0	/
677	Fire Hydrant (993) Iso.	0	/
773	Fire Hydrant (942) Iso.	0	/
777	Fire Hydrant (940) Iso.	0	/
689	Fire Hydrant (962) Iso.	0	/
780	Fire Hydrant (939) Iso.	0	/
778	Fire Hydrant (941) Iso.	0	/
772	Fire Hydrant (943) Iso.	0	/
771	Fire Hydrant (944) Iso.	0	/
676	Fire Hydrant (938) Iso.	CL	/
769	Fire Hydrant (946) Iso.	0	/
818	Fire Hydrant (938) Iso.	0	/
666	Fire Hydrant (994) Iso.	0	/
665	Fire Hydrant (927) Iso.	0	/
817	Fire Hydrant (927) Iso.	0	/
782	Fire Hydrant (926) Iso.	0	/
788	Fire Hydrant (933) Iso.	0	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-2</u>	<u>Section 6.2 Fire Hydrants at Yard Loop. (Cont'd)</u>		
819	Fire Hydrant 589 Iso.	0	/
790	Fire Hydrant (936) Iso.	0	/
669	Fire Hydrant (996) Iso.	0	/
668	Fire Hydrant (995) Iso.	0	/
801	Fire Hydrant (931) Iso.	0	/
802	Fire Hydrant (929) Iso.	0	/
670	Fire Hydrant (997) Iso.	0	/
671	Fire Hydrant (937) Iso.	0	/
821	Fire Hydrant (937) Iso.	0	/
672	Fire Hydrant (998) Iso.	0	/
673	Fire Hydrant (948) Iso.	0	/
820	Fire Hydrant (948) Iso.	0	/
<u>1X4DB174-1</u>	<u>Section 6.3 Radwaste Solidification Building</u>		
A-2301-032	Line 438-6" Iso.	0	/
A-2301-020	Line 437-6" Iso.	0	/
A-2301-012	Line 436-6" Iso.	0	/
A-2301-350	Line 445-2½" Iso.	0	/
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>AX4DB351-1</u>	<u>Section 6.3 Radwaste Solidification Bldg. (Cont'd)</u>		
TV-11098	Line 442-1½" Iso.	CL	/
003	Drain Valve 122-1"	CL	/
<u>AX4DB351-1</u>			
HV-11094	Line 443-1½" Iso.	CL	/
TV-11037	Line 443-1½" Iso.	CL	/
224	Drain Valve 124-1"	CL	/
HV-11095	Line 444-1½" Iso.	CL	/
TV-11047	Line 444-1½" Iso.	CL	/
223	Drain Valve 126-1"	CL	/
<u>CX4DB173-2</u>	<u>Section 6.4 Demin. Bldg.</u>		
737	Demin. Building Iso. Line 633-6"	O	/
	<u>Section 6.5 River Intake Structure</u>		
813	River Intake Structure Line 634-8	O	/

\*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)

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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-5</u>	<u>Section 6.6 High Voltage Switchyard Valve House No. 1</u>		
A-2301-751	Line A-2301-673-4" Iso.	CL	/
A-2301-750	Line 645-10" Iso.	CL	/
A-2301-752	Line 691-6" Iso.	CL	/
A-2301-753	Line 691-6" Iso.	CL	/
A-2301-754	Line 691-6" Iso.	CL	/
A-2301-755	Line 691-6" Iso.	CL	/
A-2301-756	Line 691-6" Iso.	CL	/
A-2301-757	Line 691-6" Iso.	CL	/
<u>CX4DB173-6</u>	<u>Section 6.7 High Voltage Switchyard Valve House No. 2</u>		
878	Drain Valve	CL	/
877	Line 733-10" Iso.	O	/
879	Iso. Valve-Deluge	CL	/
880	Iso. Valve-Deluge	CL	/
881	Iso. Valve-Deluge	CL	/
861	Line 733-10" Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-6</u>	<u>Section 6.8 High Voltage Switchyard Valve House No. 3</u>		
883	Drain Valve	CL	/
882	Line 739-10" Iso.	O	/
888	Isolation Valve-Deluge	CL	/
889	Isolation Valve-Deluge	CL	/
885	Spare	CL	/
886	Spare	CL	/
887	Spare	CL	/
864	Line 739-10" Iso.	O	/
<u>CX4DB173-6</u>	<u>Section 6.9 High Voltage Switchyard Valve House No. 4</u>		
891	Drain Valve	CL	/
890	Line 748-10" Iso.	O	/
892	Isolation Valve-Deluge	CL	/
893	Isolation Valve-Deluge	CL	/
894	Isolation Valve-Deluge	CL	/
895	Spare	CL	/
896	Spare	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-6</u>	<u>Section 6.9 High Voltage Switchyard Valve House No. 4 (Cont'd)</u>		
897	Spare	CL	/
872	Line 748-10" Iso.	O	/
<u>CX4DB173-6</u>	<u>Section 6.10 Fire Hydrant at High Voltage Switchyard Loop</u>		
860	Main Header Iso. Line 700-12"	O	/
868	Main Header Iso. Line 700-12"	O	/
870	Line 756-10" Iso.	CL	/
853	Fire Hydrant Iso.	O	/
854	Fire Hydrant Iso.	O	/
855	Fire Hydrant Iso.	O	/
856	Fire Hydrant Iso.	O	/
857	Fire Hydrant Iso.	O	/
858	Fire Hydrant Iso.	O	/
859	Fire Hydrant Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>CX4DB173-6</u>	<u>Section 6.10 (Cont'd)</u>		
862	Fire Hydrant Iso.	0	/
863	Fire Hydrant Iso.	0	/
865	Fire Hydrant Iso.	0	/
866	Fire Hydrant Iso.	0	/
867	Fire Hydrant Iso.	0	/
869	Fire Hydrant Iso	0	/
871	Fire Hydrant Iso.	0	/
873	Fire Hydrant Iso.	0	/
874	Fire Hydrant Iso.	0	/
875	Fire Hydrant Iso.	0	/
876	Fire Hydrant Iso.	0	/
<u>1X4DB173-6</u>	<u>Section 6.11 Low Voltage Switchyard Valve House</u>		
758	Line 646-10" Iso.	0	/
759	Line 672-4" Iso.	CL	/
760	Line 649-6" Iso.	CL	/
761	Line 649-6" Iso.	CL	/
766	Line 649-6" Iso.	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB173-6</u>	<u>Section 6.11 (Cont'd)</u>		
762	Line 649-6" Iso.	CL	/
763	Line 649-6" Iso.	CL	/
764	Line 649-6" Iso.	CL	/
765	Line 649-6" Iso.	CL	/
767	Line 649-6" Iso.	CL	/
<u>1X4DB174-2</u>	<u>Section 6.12 Fire Water Supply Header to Aux. Bldg.</u>		
HV-27952	Line 556-8" Iso.	O	/
294	Line 556-8" Iso.	O	/
293	Line 071-8" Iso. (Mod.)	CL	/
HV-27930	Line 013-6" Iso.	O	/
X-113	Drain, Line 071-8" Iso.	CL	/
X-357	Vent, Line 071-8" Iso.	CL	/
<u>1X4DB174-4</u>			
055	Line 071-8" Isolation	O	/
X-007	Drain Line 071-8"	CL	/
X-073	Vent, Line 071-8"	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-4</u>	<u>Section 6.12 (Cont'd)</u>		
X-202	Drain, Line 071-8"	CL	/
X-174	Vent, Line 071-8"	CL	/
X-173	Drain, Line 071-8"	CL	/
X-198	Vent, Line 071-8"	CL	/
X-318	Drain, Line 071-8"	CL	/
X-316	Vent, Line 071-8"	CL	/
<u>CX4DB173-2</u>			
808	Line 651-12" Isolation	O	/
<u>1X4DB174-2</u>	<u>Section 6.13 Auxiliary Building Level D</u>		
220	Sprinkler Sys. Iso.	O	/
222	Sprinkler Sys. Iso.	O	/
223	Sprinkler Sys. Iso.	O	/
224	Sprinkler Sys. Iso.	O	/
259	Line 077-4" Iso.	O	/
129	Line 096-4" Iso.	O	/
128	Line 096-4" Iso.	O	/
221	Sprinkler Sys. Iso.	O	/
225	Sprinkler Sys. Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	<u>Section 6.13 (Cont'd)</u>		
226	Sprinkler Sys. Iso.	O	/
261	Line A-2301-091-2½" Iso.	O	/
<u>1X4DB174-2</u>	<u>Section 6.13 Auxiliary Building Level D</u>		
263	Line A-2301-263 Iso.	O	/
261	Line 125-2½" Iso.	O	/
X-042	Line 077-4" Drain	CL	/
X-189	Line 077-4" Vent	CL	/
X-237	Line 131-2" Drain	CL	/
X-238	Line 132-2" Drain	CL	/
X-157	Line 231-4" Vent	CL	/
X-036	Line 231-4" Drain	CL	/
X-268	Line 093-2" Drain	CL	/
X-269	Line 094-2" Drain	CL	/
X-270	Line 095-2" Drain	CL	/
X-028	Line 096-4" Vent	CL	/
X-029	Line 096-4" Vent	CL	/
X-030	Line 096-4" Drain	CL	/
X-031	Line 096-4" Drain	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	<u>Section 6.14 (Cont'd)</u>		
X-014	Line 144-4" Drain	CL	/
X-016	Line 141-2½" Vent	CL	/
X-241	Line 140-4" Drain	CL	/
<u>1X4DB174-2</u>	<u>Section 6.15 Auxiliary Building Level B</u>		
082	Line 081-6" Iso.	O	/
090	Line 170-4" Iso	O	/
138	Line 170-4" Iso.	O	/
A-2301-125	Line 170-4" Iso.	CL	/
094	Line 170-4" Iso.	O	/
235	Sprinkler Sys. Iso.	O	/
241	Sprinkler Sys. Iso.	O	/
242	Sprinkler Sys. Iso.	O	/
243	Sprinkler Sys. Iso.	O	/
237	Sprinkler Sys. Iso.	O	/
240	Sprinkler Sys. Iso.	O	/
238	Sprinkler Sys. Iso.	O	/
236	Sprinkler Sys. Iso.	O	/
239	Sprinkler Sys. Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	<u>Section 6.15 Auxiliary Building Level B (Cont'd)</u>		
269	Line 043-4" Iso.	O	/
A-2301-121	Line A-2301-089-4" (Mod.)	CL	/
A-2301-144	Sprinkler Line Iso. (Mod.)	CL	/
142	Sprinkler Sys. Iso. (Mod.)	CL	/
A-2301-143	Sprinkler Line Iso. (Mod.)	CL	/
141	Sprinkler Line Iso. (Mod.)	CL	/
X-146	Line 089-4" Drain	CL	/
X-114	Line 166-4" Drain	CL	/
X-144	Line 172-4 Drain	CL	/
X-145	Line 170-4" Vent	CL	/
X-105	Line 170-4" Drain	CL	/
X-313	Line 170-4" Vent	CL	/
X-335	Line 170-4" Vent	CL	/
X-314	Line 170-4" Drain	CL	/
X-217	Line 081-6" Drain	CL	/
X-218	Line 164-2½" Drain	CL	/
X-220	Line 165-2½" Drain	CL	/
X-219	Line 164-2½" Vent	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	Section 6.15 Auxiliary Building Level B (Cont'd)		
X-221	Line 165-2½" Vent	CL	/
<u>1X4DB174-2</u>	Section 6.16 Auxiliary Building Level A		
081	Line 080-6" Iso.	O	/
135	Line 080-6" Iso.	O	/
136	Line 136-6" Iso.	O	/
093	Line A-2301-080-4"	O	/
A-2301-124	Line 080-6" Iso. (Mod.)	CL	/
1-357	Line A-2301-408-4"	O	/
2-357	Line A-2301-408-4"	O	/
252	Sprinkler Sys. Iso.	O	/
253	Sprinkler Sys. Iso.	O	/
245	Sprinkler Sys. Iso.	O	/
251	Sprinkler Sys. Iso.	O	/
244	Sprinkler Sys. Iso.	O	/
246	Sprinkler Sys. Iso.	O	/
247	Sprinkler Sys. Iso.	O	/
248	Sprinkler Sys. Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	<u>Section 6.16 (Cont't)</u>		
249	Sprinkler Sys. Iso.	O	/
250	Sprinkler Sys. Iso.	O	/
A-2301-367	Line 088-4" Iso.	CL	/
X-305	Line 134-4" Drain	CL	/
X-306	Line 167-4" Drain	CL	/
X-107	Line 085-6" Vent	CL	/
X-307	Line 085-6 Drain	CL	/
X-304	Line 200-6" Drain	CL	/
X-020	Line 199-4" Vent	CL	/
X-090	Line 084-4" Vent	CL	/
X-302	Line 084-4" Vent	CL	/
X-035	Line 184-2½" Vent	CL	/
X-303	Line 084-4" Drain	CL	/
X-358	Line 084-4" Drain	CL	/
<u>1X4DB174-2</u>	<u>Section 6.17 Auxiliary Building Level 1</u>		
080	Line 079-6" Iso.	O	/
296	Line 218-4" Iso.	O	/
295	Line 218-4" Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-2</u>	<u>Section 6.17 Auxiliary Building Level 1 (Cont'd)</u>		
A-2301-123	Line 079-6" Iso. (Mod.)	0	/
092	Line 079-6" Iso.	0	/
056	Sprinkler Sys. Iso.	0	/
265	Sprinkler Sys. Iso.	0	/
266	Sprinkler Sys. Iso.	0	/
267	Sprinkler Sys. Iso.	0	/
268	Sprinkler Sys. Iso.	0	/
X-375	Line 215-2½" Vent	CL	/
X-402	Line 415-4" Drain	CL	/
<u>1X4DB174-2</u>	<u>Section 6.18 Auxiliary Building Level 2</u>		
079	Line 078-6" Iso.	0	/
137	Line 400-4" Iso.	0	/
078	Line 078-6" Iso.	0	/
A-2301-122	Line 078-6" Iso. (Mod.)	CL	/
164	Sprinkler Sys. Iso.	0	/
158	Sprinkler Sys. Iso.	0	/
127	Sprinkler Sys. Iso.	0	/
*0 = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB208-1</u>	<u>Section 6.20 Aux. Bldg. Continuous Exhaust Unit</u>		
HV-12796	Filter Unit Iso.	CL	/
TV-12703	Filter Unit Iso.	CL	/
289	Drain Iso.	CL	/
HV-12795	Filter Unit Iso.	CL	/
TV-12696	Filter Unit Iso.	CL	/
288	Drain Iso.	CL	/
HV-12794	Filter Unit Iso.	CL	/
TV-12689	Filter Unit Iso.	CL	/
287	Drain Iso.	CL	/
<u>IX4DB174-4</u>	<u>Section 6.21 Containment Building</u>		
HV-27901	Line 092-6" Iso.	CL	/
133	Line 063-6" Iso.	CL	/
215	Line 390-4" Iso.	CL	/
214	Line 381-4" Iso.	O	/
134	Line 055-4" Iso.	O	/
029	Line 032-4" Iso.	O	/
058	Drain Line 397-1" Iso.	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-4</u>	<u>Section 6.21 Containment Building (Cont'd)</u>		
018	Drain Line 398-1" Iso.	CL	/
132	Line 243-1" Iso.	O	/
160	Sprinkler Sys. Iso.	O	/
150	Line 031-6" Iso.	O	/
217	Air Filter Iso.	O	/
218	Air Filter Iso.	O	/
159	sprinkler Sys. Iso.	O	/
166	Sprinkler Sys. Iso.	O	/
161	Sprinkler Sys. Iso.	O	/
155	Sprinkler Sys. Iso.	O	/
165	Sprinkler Sys. Iso.	O	/
162	Sprinkler Sys. Iso.	O	/
156	Sprinkler Sys. Iso.	O	/
163	Sprinkler Sys. Iso.	O	/
157	Sprinkler Sys. Iso.	O	/
X-150	Line 261-4" Drain	CL	/
X-151	Line 055-4" Vent	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-4</u>	<u>Section 6.21 Containment Building (Cont'd)</u>		
X-377	Line 390-4" Vent	CL	/
X-376	Line 031-6" Drain	CL	/
X-365	Line 366-6" Drain	CL	/
X-378	Line 031-6" Drain	CL	/
X-381	Line 240-2½" Drain	CL	/
<u>1X4DB213-2</u>	<u>Section 6.22 CTB Preaccess Filter Unit</u>		
HV-12985	Filter Unit Iso.	CL	/
TV-12654	Filter Unit Iso.	CL	/
TV-12655	Filter Unit Iso.	CL	/
HV-12987	Filter Unit Iso.	CL	/
319	Drain Valve	CL	/
320	Drain Valve	CL	/
<u>1X4DB174-3</u>	<u>Section 6.23 Control Bldg. Level B</u>		
HV-27902	Line 072-6" Iso.	O	/
044	Sprinkler Sys. Iso.	O	/
057	Sprinkler Sys. Iso.	CL	/
172	Sprinkler Sys. Iso.	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-3</u>	<u>Sections 6.23 Control Bldg. Level B (Cont'd)</u>		
X-101	Drain Iso.	CL	/
278	Line 277-4" Iso.	O	/
277	Line 268-4" Iso.	O	/
279	Line 041-4" Iso.	O	/
X-142	Drain Line Iso.	CL	/
042	Line 048-6" Iso.	O	/
201	Line 048-6" Iso.	O	/
202	Line 048-6" Iso.	O	/
071	Line 048-6" Iso.	O	/
072	Line 048-6" Iso.	O	/
073	Line 048-4" Iso.	O	/
075	Line 048-4" Iso.	O	/
X-019	Line 048-4" Iso. Vent	CL	/
X-124	Line 048-4" Iso. Vent	CL	/
X-100	Line 048-4" Iso. Vent	CL	/
X-064	Line 048-4" Iso. Vent	CL	/
X-102	Line 048-4" Drain Iso.	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix) Sheet <u>30</u> of <u>49</u>			

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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-3</u>	<u>Section 6.23 Control Bldg. Level B (Cont'd)</u>		
X-097	Line 048-4" Drain Iso.	CL	/
X-053	Line 048-4" Drain Iso.	CL	/
X-017	Line 048-4" Drain Iso.	CL	/
X-063	Line 048-4" Drain Iso.	CL	/
175	Sprinkler Sys. Iso. (Mod.)	CL	/
176	Sprinkler Sys. Iso. (Mod.)	CL	/
X-057	Vent Iso.	CL	/
X-018	Vent Iso.	CL	/
045	Sprinkler Sys. Iso.	O	/
183	Sprinkler Sys. Iso.	O	/
200	Sprinkler Sys. Iso.	O	/
188	Sprinkler Sys. Iso.	O	/
051	Sprinkler Sys. Iso.	O	/
X-099	Drain Iso.	CL	/
X-098	Drain Iso.	CL	/
X-103	Drain Iso.	CL	/
X-140	Vent Iso.	CL	/
050	Line A-2301-054-2½"	O	/

\*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)

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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-3</u>	<u>Section 6.23 Control Bldg. Level B (Cont'd)</u>		
A-2301-101	Line 048-4" Iso. (Mod.)	O	/
X-136	Line 254-6" Vent	CL	/
X-123	Line 168-4" Drain	CL	/
X-400	Line 043-4" Vent	CL	/
X-087	Line 048-4" Drain	CL	/
<u>1X4DB174-4</u>	<u>Section 6.24 Electric Tunnels</u>		
148	Sprinkler Sys. Iso.	O	/
114	Line 270-6" Iso.	O	/
154	Sprinkler Sys. Iso.	O	/
<u>1X4DB174-3</u>	<u>Section 6.25 Control Bldg. Level A</u>		
203	Line 047-6" Iso.	O	/
204	Line 047-6" Iso.	O	/
A-2301-274	Line 047-6" Iso.	O	/
076	Line 300-4" Iso.	O	/
A-2301-385	Line 054-2½" Iso. (Mod.)	O	/
077	Line 300-4" Iso.	O	/
185	Line 300-4" Iso. (Mod.)	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-3</u>	<u>Section 6.25 Control Bldg. Level A (Cont'd)</u>		
186	Line 300-4" Iso.	0	/
188	Line 300-4" Iso.	0	/
187	Line 300-4" Iso.	0	/
169	Line 300-4" Iso.	0	/
038	Sprinkler Sys. Iso.	0	/
041	Sprinkler Sys. Iso.	0	/
193	Sprinkler Sys. Iso.	0	/
184	Sprinkler Sys. Iso.	0	/
182	Sprinkler Sys. Iso.	0	/
190	Sprinkler Sys. Iso.	0	/
191	Sprinkler Sys. Iso.	0	/
192	Sprinkler Sys. Iso.	0	/
189	Sprinkler Sys. Iso.	0	/
043	Sprinkler Sys. Iso.	0	/
170	Line 311-4" Iso.	0	/
049	Line 311-4" Iso.	0	/
A-2301-102	Line 311-4" Iso. (Mod.)	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
IX4DB174-3	Section 6.25 Control Bldg. Level A		
351	Line 047-6" Iso.	O	/
X-403	Line 053-2½" Drain	CL	/
X-402	Line 053-2½" Vent	CL	/
X-153	Line 300-6" Vent	CL	/
X-161	Line 047-6" Vent	CL	/
X-317	Line 047-6 Vent	CL	/
X-350	Line 047-6" Drain	CL	/
X-175	Line 300-4" Drain	CL	/
X-154	Line 300-4" Drain	CL	/
X-152	Line 300-4" Drain	CL	/
X-178	Line 300-4" Drain	CL	/
X-181	Line 300-4" Drain	CL	/
X-183	Line 300-4" Drain	CL	/
X-158	Line 315-4" Vent	CL	/
X-160	Line 311-4" Vent	CL	/
X-159	Line 311-4" Drain	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
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VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-3</u>	<u>Section 6.25 Control Bldg. Level A</u>		
X-182	Line 300-4" Vent	CL	/
X-180	Line 305-6" Drain	CL	/
X-179	Line 300-4" Vent	CL	/
X-156	Line 300-4" Vent	CL	/
X-184	Line 299-6" Drain	CL	/
X-291	Line 300-4" Vent	CL	/
X-290	Line 297-2½" Vent	CL	/
X-320	Line 292-2½" Vent	CL	/
<u>IX4DB209</u>	<u>Section 6.26 Control Bldg. Electrical Penetration</u>		
HV-12570	Filter Unit Iso.	CL	/
301	Test Conn.	CL	/
TV-12558	Filter Unit Iso.	CL	/
HV-12569	Filter Unit Iso.	CL	/
300	Test Conn.	CL	/
TV-12559	Filter Unit Iso.	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
IX4DB174-3	Section 6.27 Control Bldg. Level 1		
040	Line 320-4" Iso.	O	/
120	Line 320-4" Iso.	O	/
167	Line 320-4" Iso.	O	/
059	Line 335-4" Iso.	O	/
255	Line 335-4" Iso.	O	/
060	Line 335-4" Iso. (Mod.)	CL	/
2-048	Unit 2-Line 052-2½" Iso.	CL	/
1-048	Line 046-6" Iso.	O	/
A-2301-271	Line 046-6" Iso. (Mod.)	CL	/
A-2301-197	Sprinkler Sys. Iso.	O	/
030	Sprinkler Sys. Iso. (Mod.)	CL	/
031	Sprinkler Sys. Iso. (Mod.)	CL	/
X-214	Line 046-6" Drain	CL	/
X-324	Line 319-2½" Vent	CL	/
X-349	Line 263-2½" Drain	CL	/
X-215	Line 046-6" Vent	CL	/
X-348	Line 263-2½" Vent	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-3</u>	Section 6.27 Control Bldg. Level 1 (Cont'd)		
X-346	Line 335-4" Vent	CL	/
X-345	Line 419-4" Drain	CL	/
X-344	Line 419-4" Drain	CL	/
<u>AX4DB235</u>			
TV-21012	Filter Unit Iso.	CL	/
HV-21013	Filter Unit Iso.	CL	/
309	Drain Valve	CL	/
X-343	Line 419-4" Vent	CL	/
X-342	Line 419-4" Drain	CL	/
X-341	Line 420-2½" Vent	CL	/
X-228	Line 320-4" Vent	CL	/
X-210	Line 320-4" Drain	CL	/
X-209	Line 320-4" Drain	CL	/
X-328	Line 318-2½" Vent	CL	/
X-329	Line 320-4" Vent	CL	/
X-330	Line 320-4" Drain	CL	/
X-331	Line 320-4" Vent	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>AX4DB235</u>	<u>Section 6.27 Control Bldg. Level 1 (Cont'd)</u>		
X-208	Line 320-4" Drain	CL	/
X-326	Line 320-4" Vent	CL	/
X-325	Line 320-4" Drain	CL	/
<u>1X4DB174-3</u>	<u>Section 6.28 Control Bldg. Level 2</u>		
205	Line 330-6" Iso.	O	/
206	Line 330-6" Iso.	O	/
A-363	Line 309-2½" Iso. (Mod.)	CL	/
A-2301-207	Line 030-6" Iso. (Mod.)	CL	/
282	Filter Iso.	O	/
039	Sprinkler Sys. Iso.	O	/
098	Sprinkler Sys. Iso.	O	/
194	Sprinkler Sys. Iso.	O	/
195	Sprinkler Sys. Iso.	O	/
199	Sprinkler Sys. Iso.	O	/
099	Sprinkler Sys. Iso.	O	/
100	Sprinkler Sys. Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-3</u>	<u>Section 6.28 Control Bldg. Level 2 (Cont'd)</u>		
X-230	Line 330-6" Drain	CL	/
X-232	Line 330-6" Drain	CL	/
X-231	Line 330-6" Vent	CL	/
X-227	Line 330-6" Drain	CL	/
X-226	Line 330-6" Vent	CL	/
X-225	Line 330-6" Drain	CL	/
<u>AX4DB215</u>			
HV-12798	Filter Unit Iso.	CL	/
TV-12779	Filter Unit Iso.	CL	/
323	Drain Valve	CL	/
<u>IX4DB174-3</u>	<u>Section 6.29 Control Bldg. Level 3</u>		
178	Sprinkler Sys. Iso.	0	/
177	Sprinkler Sys. Iso.	0	/
180	Sprinkler Sys. Iso. Level 4	0	/
181	Sprinkler Sys. Iso. Level 4	0	/
208	Line 340-6" Iso.	0	/
*0 = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-4</u>	<u>Section 6.29 Control Bldg. Level 3 (Cont'd)</u>		
209	Line 340-6" Iso.	O	/
210	Line 340-6" Iso.	O	/
Temporary Isolation Valve	Line 045-6" Iso. Unit 2	CL	/
A-2301-213	Line 340-6" Iso.	O	/
046	Line 072-6" Iso.	O	/
A-2301-273	Line 072-6" Iso. (Mod.)	CL	/
2-2301-210	Unit 2, Line 340-6" (Mod.)	CL	/
A-2301-X-022	Line 336-2½" Vent	CL	/
X-262	Line 340-6" Drain	CL	/
X-384	Line 349-2½" Vent	CL	/
X-253	Line 340-6" Vent	CL	/
X-251	Line 340-6" Vent	CL	/
X-252	Line 340-6" Drain	CL	/
X-250	Line 340-6" Drain	CL	/
X-248	Line 340-6" Vent	CL	/
X-286	Line 049-2½" Vent	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-3</u>	Section 6.29 Control Bldg. Level 3 (Cont'd)		
X-250	Line 340-6" Drain	CL	/
<u>AX4DB204-1</u>			
HV-12486	Filter Iso.	CL	/
HV-12487	Filter Iso.	CL	/
TV-12543	Filter Iso.	CL	/
TV-12544	Filter Iso.	CL	/
A-2301-284	Drain Valve	CL	/
A-2301-283	Drain Valve	CL	/
<u>AX4DB206-3</u>	Section 6.30 Control Bldg. Control Room HVAC		
TV-12134	Filter Iso.	CL	/
HV-12193	Filter Iso.	CL	/
B05	Drain Valve	CL	/
TV-12135	Filter Iso.	CL	/
HV-12194	Filter Iso.	CL	/
B04	Drain Valve	CL	/
	No valves shown. Just a blank flange at end of line.		
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-4</u>	<u>Section 6.31 Diesel Generator Building</u>		
147	Sprinkler Sys. Iso.	O	/
153	Sprinkler Sys. Iso.	O	/
115	Line 073-8"	O	/
<u>1X4DB174-4</u>	<u>Section 6.32 Fuel Handling Building</u>		
A-2301-103	Line 059-4" Iso. (Mod.)	O	/
069	Line 059-4" Iso.	O	/
297	Line 220-4" Iso.	O	/
149	Sprinkler Sys. Iso.	O	/
070	Line 060-4" Iso.	O	/
1-074	Line A-2301-075-2½"	O	/
A-2301-292	Line 060-4" Iso. (Mod.)	O	/
145	Sprinkler Sys. Iso.	O	/
299	Line 221-4" Iso.	O	/
2-2301-74	Line 075-2½" (Mod.)	O	/
A-2301-298	Line 221-4" Iso. (Mod.)	O	/
HV-27903	Line 059-6" Iso.	O	/
X-071	Line 221-4" Drain	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DBI74-4</u>	<u>Section 6.32 Fuel Handling Building (Cont'd)</u>		
X-070	Line 062-2½" Vent	CL	/
X-267	Line 360-2½" Vent	CL	/
X-068	Line 353-4" Vent	CL	/
X-372	Line 355-2½" Vent	CL	/
X-069	Line 059-6" Vent	CL	/
<u>IX4DBI74-4 and IX4DBI74-3</u>	<u>Section 6.33 Equipment Building</u>		
270	Line 220-6" Iso. (Level 2)	CL	/
254	Sprinkler Sys. Iso.	O	/
257	Line 220-4" Iso.	O	/
258	Line 220-4" Iso.	O	/
256	Line 220-4" Iso.	O	/
X-362	Line 220-4" Vent	CL	/
X-363	Line 265-2½" Vent	CL	/
X-364	Line 220-4" Drain	CL	/
X-360	Line 220-4" Drain	CL	/
X-207	Line 220-6" Drain	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB174-4</u> and <u>1X4DB174-3</u>	<u>Section 6.33 Equipment Building (Cont'd)</u>		
X-288	Line 220-6" Vent	CL	/
X-361	Line 220-6" Vent	CL	/
<u>1X4DB174-4</u> and <u>1X4DB213-1</u>	<u>Section 6.34 CTB Purge Filter Exhaust Unit.</u>		
HV-12658	Filter Unit Iso.	CL	/
TV-12651	Filter Unit Iso.	CL	/
HV-12986	Filter Unit Iso.	CL	/
TV-12653	Filter Unit Iso.	CL	/
321	Drain Iso.	CL	/
322	Drain Iso.	CL	/
HV-27961	Line 335-4" Iso.	O	/
<u>1X4DB174-4</u>	<u>Section 6.35 Auxiliary Feedwater Pump House</u>		
149	Sprinkler Sys. Iso.	O	/
219	Sprinkler Sys. Iso.	O	/
152	Sprinkler Sys. Iso.	O	/
095	Line 117-6" Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB174-4</u>	<u>Section 6.35 Auxiliary Feedwater Pump House (Cont'd)</u>		
096	Line 073-8" Iso.	O	/
052	Line 071-8" Iso.	O	/
053	Line 071-8" Iso.	O	/
054	Line 071-8" Iso.	O	/
X-373	Line 120-6" Vent	CL	/
X-323	Line 113-6" Drain	CL	/
X-321	Line 113-6" Vent	CL	/
118	Line 272-6" Iso.	O	/
116	Line 073-8" Iso.	O	/
112	Line 073-8" Iso.	O	/
113	Line 113-6" Iso.	O	/
<u>IX4DB173</u>	<u>Section 6.36 Turbine Building</u>		
527	Sprinkler Sys. Iso.	O	/
528	Sprinkler Sys. Iso.	O	/
899	Sprinkler Sys. Iso.	O	/
529	Sprinkler Sys. Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>1X4DB173</u>	Section 6.36 Turbine Building (Cont'd)		
832	Strainer Drain Iso.	CL	/
525	Line 536-10" Iso.	O	/
519	Fire Hose Station Iso.	O	/
517	Fire Hose Station Iso.	O	/
A-2301-686	Line 536-10" Iso. (Mod.)	CL	/
520	Line 539-6" Iso.	O	/
831	Drain Line Iso.	CL	/
522	Sprinkler Sys. Iso. (Mod.)	CL	/
523	Sprinkler Sys. Iso. (Mod.)	CL	/
524	Sprinkler Sys. Iso. (Mod.)	CL	/
516	Sprinkler Sys. Iso. (Mod.)	CL	/
685	Line 539-6" Iso. (Mod.)	CL	/
530	Line 544-4" Iso.	O	/
548	Sprinkler Sys. Is.	O	/
549	Line 759-8" Iso.	O	/
905	Line 758-8" Iso.	O	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB173</u>	Section 6.36 Turbine Bldg. (Cont'd)		
535	Sprinkler Sys. Iso.	0	/
534	Sprinkler Sys. Iso.	0	/
533	Sprinkler Sys. Iso.	0	/
531	Line 550-6" Iso.	0	/
830	Drain Iso.	CL	/
A-2301-827	Line A-2301-703-6" Iso.	CL	/
537	Line 537-10" Iso.	0	/
536	Line 537-10" Iso.	0	/
538	Line 537-10" Iso.	0	/
554	Line 761-8" Iso.	0	/
829	Drain Iso.	0	/
550	Drain Iso.	CL	/
540	Sprinkler Sys. Iso.	0	/
556	Sprinkler Sys. Iso.	0	/
541	Sprinkler Sys. Iso.	0	/
557	Sprinkler Sys. Iso.	0	/
542	Sprinkler Sys. Iso.	0	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
<u>IX4DB173</u>	<u>Section 6.36 Turbine Building (Cont'd)</u>		
558	Sprinkler Sys. Iso.	O	/
551	Sprinkler Sys. Iso.	O	/
552	Sprinkler Sys. Iso.	O	/
553	Sprinkler Sys. Iso.	O	/
900	Sprinkler Sys. Iso.	O	/
901	Sprinkler Sys. Iso.	O	/
902	Sprinkler Sys. Iso.	O	/
903	Sprinkler Sys. Iso.	O	/
543	Sprinkler Sys. Iso.	O	/
544	Sprinkler Sys. Iso.	O	/
545	Sprinkler Sys. Iso.	O	/
904	Drain Iso.	CL	/
546	Line 537-10" Iso.	O	/
555	Drain Iso.	CL	/
A-2301-687	Line 537-10" Iso. (Mod.)	CL	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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ATTACHMENT 10.1  
INITIAL VALVE LINEUP

VALVE NUMBER	VALVE DESCRIPTION	*REQUIRED POSITION	
CX4DB173-2	<u>Section 6.37</u>		
2-2301-770	Line 2-2301-073-8" Iso.	0	/
2-2301-656	Turbine Bldg. Iso.	0	/
789	Line 667-12" Iso.	0	/
*O = Open    CL = Closed    T = Throttled    L = Locked (Prefix)			
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## ATTACHMENT 10.2

INSTRUMENT LINE FLUSH STATUS

INSTRUMENT	ISOLATED	FLUSHED
<u>Section 6.1 Fire Water Storage Tanks, Pumphouse &amp; Yard Loop</u>		
LT-7955	/	/
LT-7956	/	/
LG-7993	/	/
LISHL-18073	/	/
LSHL-7913	/	/
LISHL-7989	/	/
LSHL-7912	/	/
LG-9075	/	/
LSL-9076	/	/
LSL-7992	/	/
PI-7915	/	/
PI-7906	/	/
PI-7903	/	/
PSL-7905	/	/
PSL-7953	/	/
PT-7918	/	/
FI-7951	/	/
FI-18170	/	/

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## ATTACHMENT 10.2

INSTRUMENT LINE FLUSH STATUS

INSTRUMENT	ISOLATED	FLUSHED
Section 6.1 Fire Water Storage Tanks, Pumphouse & Yard Loop (Cont'd)		
FS-18080	/	/
FI-18170	/	/
PI-7949	/	/
PI-7948	/	/
PI-18069	/	/
PI-18071	/	/
PSL-7957	/	/
PI-18077	/	/
PSL-7952	/	/
PI-18074	/	/
PSL-7907	/	/
PR-7907	/	/
PR-7990	/	/
PSL-7990	/	/
PI-7991	/	/
PI-7928	/	/
PI-7917	/	/
PI-7908	/	/
Sheet <u>2</u> of <u>4</u>		

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ATTACHMENT 10.2

INSTRUMENT LINE FLUSH STATUS

INSTRUMENT	ISOLATED	FLUSHED
<u>Section 6.12 Fire Water Supply Header to Aux. Building</u>		
FS-27962	/	/
FS-27929	/	/
FS-27951	/	/
<u>Section 6.21 Containment Building</u>		
PI-28279	/	/
PI-28278	/	/
PI-28277	/	/
<u>Section 6.32 Fuel Handling Building</u>		
FS-27928	/	/
PI-28280	/	/
<u>Section 6.36 Turbine Building</u>		
PI-7976	/	/
PI-7975	/	/
PI-7974	/	/
PI-7970	/	/

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ATTACHMENT 10.2

INSTRUMENT LINE FLUSH STATUS

INSTRUMENT	ISOLATED	FLUSHED
<u>Section 6.36 Turbine Building (Cont'd)</u>		
PI-7971	/	/
PI-7972	/	/
PP-X-970	/	/
PI-7973	/	/
<u>Section 6.16 Control Bldg. Level A</u>		
FS-27927	/	/



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ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.1 Fire Water Storage Tanks, Pump House and Yard Loop</u>		
1. Remove/Restore pump suction 12" X 10" reducer immediately upstream of pump P4-002. Install 12" adapter to line 010-12. Run temporary line to waste. Temporary line to have an in-line valve and also a 2" sampling connection. (DWG. CX4DB173-1, E-2)	Remove Pump Suction Reducer  _____ / _____	Restore  _____ / _____
2. Remove/Restore FE-18170. Install spacer and reconnect line 058-10". (DWG. CX4DB173-1, D-1)	Remove FE-18170.  _____ / _____	Remove spacer. Restore FE-18170  _____ / _____
3. Locate buried T-line between valves 660 and 661. Remove/Restore blind flange and install 12" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. CX4DB173-2)	Remove Flange  _____ / _____	Restore Flange  _____ / _____

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ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.1 Fire Water Storage Tank, Pump House and Yard Loop (Cont'd)</u>		
4. Remove/Restore FE-7951. Install Spacer and re-connect line 500-10" (DWG. CX4DB173-1, C-5)	Remove FE-7951	Remove Spacer. Restore FE-9751
<u>Section 6.4 Demineralizer Building</u>		
1. Demin. Building. Install temporary adapter with valve at the farthest flange of the 6" fire water pipe. Temporary line to be routed to drain and have a 2" sampling line connection (DWG. CX4DB173-2)	Install Adapter _____/_____ _____	Restore Water Line _____/_____ _____
<u>Section 6.5 River Intake Structure</u>		
1. River Intake Structure. Install temporary adapter with valve at the farthest flange of the 8" fire water line. Temporary line to be routed to fire drain and have a 2" sampling line connection. (DWG. CX4DB173-2)	Install Adapter _____/_____ _____	Restore Water Line _____/_____ _____
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.6 High Voltage Switchyard Valvehouse No. 1		
1. Remove/Restore the following valves. Install 6" adapter and line to waste. Temporary line to have an in-line valve and a 2" sampling line connection (DWG. CX4DB173-5)  A-2301-752  A-2301-753  A-2301-754  A-2301-755  A-2301-756  A-2301-757	Remove Valve  _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____	Restore Valve  _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____
2. Remove/Restore inside bucket strainer. (DWG. CX4DB173-5)  A-2301-F4-601	_____ / _____	_____ / _____

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.6 High Voltage Switchyard Valvehouse No. 1 (Cont'd)		
3. Attach 6" adapter with temporary line to waste for valve 757. Line to have in-line valve and 2" sampling connection. (DWG. CX4DB173-5)	Attach Temporary Line	Restore
	/	/
Section 6.7 High Voltage Switchyard Valvehouse No. 2		
Remove/Restore the following valves. Install 6" adapter and line to waste. Temporary line to have an in-line valve and a 2" sampling line connection. (DWG. CX4DB173-6)	Remove Valve	Restore Valve
A-2301-897	/	/
A-2301-880	/	/
A-2301-881	/	/
2. Remove/Restore inside basket strainer. (DWG. CX4DB173-6) C-2301-F4-600	Remove	Restore
	/	/

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ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.8 High Voltage Switchyard Valve House No. 3</u>		
1. Remove/Restore the following valves. Install 6" adapter and line to waste. Temporary line to have an in-line valve and a 2" sampling line connection. (DWG. CX4DB173-6)	Remove Valve	Restore Valve
A-2301-884	/	/
A-2301-888	/	/
A-2301-889	/	/
2. Remove/Restore inside basket strainer: (DWG. CX4DB173-6)	Remove	Restore
C-2301-F4-603	/	/
3. Attach 6" adapter with temporary line to waste for the following valves line to have in-line valve and 2" sampling connection. (DWG. CX4DB173-6)	Attach Temporary Line	Restore
885	/	/
886	/	/

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.8 High Voltage Switchyard Valve House No.3 (Cont'd)		
887	/	/
Section 6.9 High Voltage Switchyard Valve House No 4		
1. Remove/Restore the following valves. Install 6" adapter and line to waste. Temporary line to have an in-line valve and a 2" sampling line connection. (DWG. CX4DB173-)	Remove Valve	Restore Valve
A-2301-892	/	/
A-2301-893	/	/
A-2301-894	/	/
2. Remove/Restore inside basket strainer: (DWG. CX4DB173-6)	Remove	Restore
C-2301-F4-604	/	/

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## ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.8 High Voltage Switchyard Valve House No. 3 (Cont'd)</u>		
3. Attach 6" adapter with temporary line to waste the following valves. Line to have in-line valve and 2" sampling connection. (DWG. CX4DB173-6)	Attach Temporary line	Restore
895	/	/
896	/	/
897	/	/
<u>Section 6.11 Low Voltage Switchyard Valve House - Unit No. 1</u>		
1. Remove/Restore the following valves. Install 6" adapter and line to waste. Temporary line to have an in-line valve and a 2" sampling line connection. (DWG. 1X4DB173-6)	Remove Valve	Restore Valve
A-2301-760	/	/
A-2301-761	/	/
A-2301-762	/	/
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.11 Low Voltage Switchyard Valve House Unit No. 1 (Cont'd)</u>		
A-2301-763	/	/
A-2301-764	/	/
A-2301-765	/	/
A-2301-766	/	/
A-2301-767	/	/
2. Remove/Restore inside basket strainer: (DWG. 1X4DB173-6)	Remove	Restore
1-2301-F4-602	/	/
<u>Section 6.12 Fire Water Supply Header to Aux. Bldg.</u>		
1. Remove/Restore valve internals and install 8" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling connection. (DWG. 1X4DB174-2, D-2) Valve 293	Remove Internals /	Restore Internals /
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.12 Fire Water Supply Header to Aux. Bldg. (Cont'd)		
2. Remove/Restore FE-27951 and install spacer in line 071-8". (DWG. 1X4DB174-2)	Remove FE-27951 <hr style="width: 50%; margin: auto;"/>	Restore FE-27951 <hr style="width: 50%; margin: auto;"/>
<u>Section 6.15 Auxiliary Bldg. Level B</u>		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have inline valve and a 2" sampling line. (DWG. 1X4DB174-2)	Remove Valve Internals <hr style="width: 50%; margin: auto;"/>	Restore Valve Internals <hr style="width: 50%; margin: auto;"/>
A-2301-125		
<u>Section 6.16 Auxiliary Bldg. Level A</u>		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-2)	Remove Internals	Restore Internals

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.16 Aux. Bldg. Level A (Cont'd)		
A-2301-124	/	/
Section 6.17 Auxiliary Bldg. Level 1		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-2)	Remove Valve Internals	Restore Valve Internals
A-2301-123	/	/
Section 6.18 Auxiliary Bldg. Level 2		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-2)	Remove Valve	Restore Valve

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ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<p>Section 6.18 Auxiliary Bldg. Level 2 (Cont'd)</p> <hr/> <p>A-2301-122</p>	<p>Remove Valve Internals</p> <p>_____ / _____</p>	<p>Restore Valve Internals</p> <p>_____ / _____</p>
<p>Section 6.25 Control Bldg. Level A</p> <hr/> <p>1. Remove/Restore valve internals and install 6 adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-3)</p> <p>A-2301-274</p>	<p>Remove Valve Internals</p> <p>_____ / _____</p>	<p>Restore Valve Internals</p> <p>_____ / _____</p>
<p>Section 6.27 Control Bldg. Level 1</p> <hr/> <p>1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-3)</p> <p>A-2301-271</p>	<p>Remove Valve Internals</p> <p>_____ / _____</p>	<p>Restore Valve Internals</p> <p>_____ / _____</p>

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.28 Control Bldg. Level 2</u>		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and 2" sampling line. (DWG. 1X4DB174-3)	Remove Valve Internals	Restore Valve Internals
A-2301-207	/	/
A-2301-272	/	/
<u>Section 6.29 Control Bldg. Level 3</u>		
1. Remove/Restore valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling line. (DWG. 1X4DB174-3)	Remove Valve Internals	Restore Valve Internals
A-2301-273	/	/
<u>Section 6.36 Turbine Bldg.</u>		
1. Remove/Restore the following valve internals and install 6" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling connection:		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
<u>Section 6.36 Turbine Bldg. (Cont'd)</u>		
<p>534</p> <p>535</p> <p>548</p> <p>(DWG. 1X4DB173, F-2)</p>	<p>Remove Internals</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p>	<p>Restore Internals</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p>
<p>2. Remove/Restore internals and install 10" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling connection.</p> <p>A-2301-686</p> <p>A-2301-687</p> <p>(DWG. 1X4DB173)</p>	<p>Remove Internals</p> <p>_____ / _____</p> <p>_____ / _____</p>	<p>Restore Internals</p> <p>_____ / _____</p> <p>_____ / _____</p>
<p>3. Remove/Replace the following Y-Strainer and install 8" adapter with temporary line to waste. Temporary line to have in-line valve and a 2" sampling connection.</p> <p>1-2301-F4-500</p> <p>1-2301-F4-500</p>	<p>Remove Y-Strainer</p> <p>_____ / _____</p>	<p>Replace Y-Strainer</p> <p>_____ / _____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>PIPING MODIFICATIONS</u>		
Section 6.36 Turbine Bldg. (Cont'd)		
	Remove Y-Strainer	Replace Y-Strainer
1-2301-F4-501	/	/
1-2301-F4-502	/	/
1-2301-F4-503	/	/
1-2301-F4-504	/	/
1-2301-F4-505	/	/
1-2301-F4-506	/	/
(DWG. 1X4DB173)		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATION</u>		
<u>Section 6.1 Fire Water Storage Tank, Pumphouse and Yard Loop</u>		
1. Remove/Restore pump suction spool immediately upstream of pump P4-001. Install adapter on storage tank side. Connect temporary pipe to waste. (DWG. CX4DB173-1)	Remove Pipe Spool  _____ / _____	Restore Pipe Spool  _____ / _____
2. Remove/Restore strainer element from the follow-strainers.  C-2301-P4-003-F05  C-2301-P4-005-F05  (DWG. CX4DB173-1)	Remove  _____ / _____  _____ / _____	Restore  _____ / _____  _____ / _____
3. Remove/Restore the following flow orifices.  FO-7920  FO-7942  FO-7947  (DWG. CX4DB173-1)	Remove  _____ / _____  _____ / _____  _____ / _____	Restore  _____ / _____  _____ / _____  _____ / _____
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.1 Fire Water Storage Tank, Pump House and Yard Loop (cont'd)		
4. Connect/Disconnect temporary hose with in-line isolation valve at removed FO-7942 on line 021-1". (DWG. CX4DB173-1)	Connect  _____ / _____	Disconnect  _____ / _____
5. Remove/Restore pipe cap, and install adapter and temporary line to waste on valve 502. (DWG. CX4DB173-1)	Remove  _____ / _____	Restore  _____ / _____
6. Remove/Restore the following PSV's, and install adapters.  PSV-7914  PSV-18076  PSV-7946  (DWG. CX4DB173-1)	Remove  _____ / _____  _____ / _____  _____ / _____	Restore  _____ / _____  _____ / _____  _____ / _____
7. Attach 1" Hose downstream of valve X-599 and connect to waste. (DWG. CX4DB173-1)	Hose Attached  _____ / _____	Hose Removed  _____ / _____



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## ATTACHMENT 10.3

TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.1 Fire Water Storage Tank, Pump House and Yard Loop (Cont'd)</u>		
8. Attach hoses to the fittings of the following wet pipe sprinkler system and connect to waste. Removed Sprinklers downstream of line 502-3". (DWG. CX4DB173-1)	Hose Attached  _____ / _____	Hose Removed  _____ / _____
9. Disconnect/Restore Flange joining lines 066-10" and 070-10". Install 10" blind flange at end of line 070-10".	Disconnected Piping Install Blind Flange  _____ / _____	Removed blind flange and Restored Piping  _____ / _____
10. Remove/Re-install blind flange at the end of line 018-10" and connect temporary hose in-line isolation valve.	Removed  _____ / _____	Reinstalled  _____ / _____
<u>Section 6.2 Fire Hydrants at Yard loop-Dwg. CX4DB173-2</u>		
1. Connect/Disconnect temporary hoses to flush Fire Hydrants	Connected  _____ / _____	Disconnected  _____ / _____
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.3 Radwaste Solidification Bldg.		
1. Attach hoses to flanged ends of following lines upstream of carbon filter area. Connect hose to waste.	Hoses Installed	Hoses Removed
Line 439-1"	_____ / _____	_____ / _____
Line 440-1"	_____ / _____	_____ / _____
(DWG. AX4DB104-5)		
2. Attach hoses to the fittings of the following sprinklers and connect to waste.		
<u>NOTE:</u>		
These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.3 Radwaste Solidification Bldg. (Contd.)		
<p>Preaction sprinklers downstream of the following isolation valves.</p> <p>A-2301-012</p> <p>A-2301-032</p> <p>A-2301-020</p> <p>A-2301-350</p> <p>A-2301-351</p> <p>(DWG. 1X4DB174-2, -3, -4)</p>	<p>Hoses Attached</p> <p>/</p> <p>/</p> <p>/</p> <p>/</p> <p>/</p>	<p>Sprinklers Restored to Original State</p> <p>/</p> <p>/</p> <p>/</p> <p>/</p> <p>/</p>
<p>3. Connect/Disconnect temporary hoses at Fire Hose Station &amp; Fire Hydrants.</p>	<p>Connected</p> <p>/</p>	<p>Disconnected</p> <p>/</p>
Section 6.13 Auxiliary Bldg. Level D		
<p>1. Attach hose to the fittings of the following sprinklers and connect to waste.</p>		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.13 Auxiliary Bldg. Level D (Cont'd.)</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>226</p> <p>225</p> <p>221</p> <p>224</p> <p>223</p> <p>222</p> <p>220</p> <p>(DWG. 1X4DB174-2)</p> <p>2. Connect/Disconnect temporary hoses at Fire Hose Station &amp; Fire Hydrants.</p>	<p>Hoses Attached</p> <p>_____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____</p> <p>Connected</p> <p>_____/_____</p>	<p>Sprinklers Restored to Original State</p> <p>_____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____                  _____/_____</p> <p>Disconnected</p> <p>_____/_____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.14 Auxiliary Bldg. Level C (Cont'd)</u>		
229	/	/
228	/	/
227	/	/
(DWG. 1X4DB174-2)		
2. Remove/Restore valve bonnet and install adapter with temporary line to waste. Temporary line to have in-line valve.	Remove	Restore
A-2301-264	/	/
A-2301-364	/	/
3. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected	Disconnected
<u>Section 6.15 Auxiliary Bldg. Level B</u>		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.	/	/
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.15 Auxiliary Bldg. Level B (Cont'd)</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p>	<p>Hose Attached</p>	<p>Sprinklers Restored to Original to state</p>
243	/	/
242	/	/
241	/	/
235	/	/
239	/	/

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.15 Auxiliary Bldg. Level B (Cont'd)	Hose Attached	Sprinklers Restored To Original State
236	/	/
240	/	/
238	/	/
237	/	/
2. Remove/Restore valve bonnet and install adapter with temporary line to waste. Temporary line to have in-line valve. A-2301-121	Remove  /	Restore  /
3. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have an in-line valve. Only in the event that the deluge system is already installed, is it necessary to plug the lines downstream of these valves. 141	Valve Internals Removed  /	Valves Restored  /
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.15 Auxiliary Bldg. Level B (Cont'd.)	Valve Internals Removed	Valves Restored
142	/	/
143	/	/
144	/	/
4. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected	Disconnected
/	/	/
<u>Section 6.16 Auxiliary Bldg. Level A</u>		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.		
<u>NOTE:</u>		
These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.	Hoses Attached	Sprinklers Restored to Original State
250	/	/

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.16 Auxiliary Bldg. Level A (Cont'd)		
	Hoses Attached	Sprinklers Restored to Original State
249	/	/
248	/	/
247	/	/
246	/	/
244	/	/
251	/	/
245	/	/
253	/	/
252	/	/
2. Connect/Disconnect temporary hoses at Fire Hose Stations & Fire Hydrants	Connected	Disconnected
	/	/
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.17 Auxiliary Bldg Level 1</u>		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.  <u>NOTE:</u>  These hoses may be installed just prior to flushing in the designated area, and then removed immediately way, the number of hoses can be minimized.		
	Hoses Attached	Sprinklers Restored
265	_____/____	_____/____
056	_____/____	_____/____
266	_____/____	_____/____
268	_____/____	_____/____
267 (DWG. 1X4DB174-2)	_____/____	_____/____
2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants	Connected	Disconnected
	_____/____	_____/____
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.18 Auxiliary Bldg. Level 2</p> <p>1. Attach hoses to the fittings of the following sprinklers and connect to waste.</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>037</p> <p>126</p> <p>127</p> <p>158</p> <p>164 (DWG. 1X4DB174-2)</p> <p>2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.</p>	<p>Hoses Attached</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>Connected</p> <p>_____ / _____</p>	<p>Sprinklers Restored to Original State</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>Disconnected</p> <p>_____ / _____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.21 Containment Bldg.</p> <p>1. Attach hoses to the fittings of the following sprinklers and connect to waste.</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then remove immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>Preaction sprinklers downstream of the following isolation valves.</p> <p>160</p> <p>159</p> <p>166</p> <p>161</p>	<p>Hoses Attached</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p>	<p>Sprinklers Restored to Original</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p> <p>_____ / _____</p>

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.21 Containment Bldg. (Cont'd)</u>		
	Hoses Attached	Sprinklers Restored to Original
155	/	/
165	/	/
162	/	/
156	/	/
163	/	/
157	/	/
(DWG. 1X4DB174-4)		
2. Connect/Disconnect temporary hoses at Fire Hose Stations & Fire Hydrants.	Connected	Disconnected
	/	/
<u>Section 6.23 Control Bldg. Level B</u>		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.23 Control Bldg.                      Level B (Cont'd)</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>Preaction sprinklers downstream of the following isolation valves.</p>           051 168 200 183 045 044 (DWG. 1X4DB174-3)	<p>Hoses Attached</p>           _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____	<p>Sprinklers Restored to Original State</p>           _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____ _____ / _____
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATION</u>		
Section 6.23 Control Bldg. Level B (Cont'd)		
2. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have an in-line valve. Only in the event that the deluge system is already installed, is it necessary to plug the lines downstream of these valves.  176  175 (DWG. 1X5DB174-3)	Valve Internals  /  /	Valves Restored  /  /
3. Remove/Restore valve bonnets and install adapter with temporary line to have in-line valve.  A-2301-101  A-2301-385	Valve internals Removed  /  /	Valve Restored  /  /
4. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected  /	Disconnected  /
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p><u>Section 6.24 Electric Tunnels</u></p> <p>1. Attach hoses to the fittings of the following sprinklers and connect to waste.</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>154 _____ / _____</p> <p>148 _____ / _____                      (DWG. 1X4DB174-4)</p> <p>2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.</p> <p>_____ / _____</p>	<p>Hose Attached</p> <p>_____ / _____</p> <p>Connected</p> <p>_____ / _____</p>	<p>Sprinklers Restored</p> <p>_____ / _____</p> <p>Disconnected</p> <p>_____ / _____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.25 Control Bldg. Level A		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.		
<u>NOTE:</u>		
These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.	Hoses Attached	Sprinklers Restored
192	/	/
191	/	/
190	/	/
182	/	/
184	/	/
189	/	/
041	/	/
193	/	/
038 (DWG. 1X4DB174-3)	/	/
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.25 Control Eldg. Level A (Cont'd)		
2. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have in-line valve.	Valve Internals Removed	Restored
A-2301-274	/	/
A-2301-363	/	/
A-2301-102 (DWG. 1X4DB174-3)	/	/
3. Connect//Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected	Disconnected
1. Attach hoses to the fittings of the following sprinklers and connect to waste.	/	/
<p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p>		

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.25 Control Bldg. Level A (Cont'd)		
197 (DWG. 1X4DB174-3)	Hose Attached  _____/_____ /	Sprinklers Restored  _____/_____ /
2. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have an in-line valve. Only in the event that the deluge system is already installed, is it necessary to plug the line downstream of these valves.	Valve Internals Removed  _____/_____ /	Valves Restored  _____/_____ /
030 031 (DWG. 1X4DB174-3)	_____/_____ /	_____/_____ /
3. Remove/Restore valve bonnets and install adapter with temporary line to waste temporary line to have in-line valve.	Removed  _____/_____ /	Restore  _____/_____ /
A-2301-271 A-2301-185	_____/_____ /	_____/_____ /
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
Section 6.28 Control Bldg. Level 2 (Cont'd)		
	Hoses Attached	Sprinklers Restored
194	_____/____	_____/____
195	_____/____	_____/____
199	_____/____	_____/____
099	_____/____	_____/____
100 (DWG. 1X4DB174-3)	_____/____	_____/____
2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected	Disconnected
	_____/____	_____/____
Section 6.29 Control Bldg. Level 3		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.29 Control Bldg.                      Level 3 (Cont'd)</p> <hr/> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>180                      178                      181                      036                      (DWG. 1X4DB174-3)</p> <p>2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.</p>	<p>Hoses Attached</p> <p>_____/_____                      _____/_____                      _____/_____                      _____/_____                      _____/_____                      Connected                      _____/_____</p>	<p>Sprinklers Restored</p> <p>_____/_____                      _____/_____                      _____/_____                      _____/_____                      _____/_____                      Disconnected                      _____/_____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>FLUSHING MODIFICATIONS</u></p> <p>Section 6.31 Diesel Generator Bldg.</p> <p>1. Attach hoses to the fittings of the following sprinklers and connect to waste.</p> <p><u>NOTE:</u></p> <p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.</p> <p>Preaction sprinklers downstream of the following isolation valves.</p> <p>153</p> <p>147</p>	<p>Hoses Attached</p> <p>_____ / _____</p> <p>_____ / _____</p>	<p>Sprinklers Reatored</p> <p>_____ / _____</p> <p>_____ / _____</p>
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.32 Fuel Handling Bldg.</u>		
1. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have in-line valve.  A-2301-292  A-2301-103  A-2301-074  A-2301-298	Valve Internals Removed  / / / /	Valve Restored  / / / /
2. Attach hoses to the fittings of the following sprinklers and connect go waste.  <u>NOTE:</u>  These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the next area. In this way, the number of hoses can be minimized.		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.35 Aux. Feed-water Pump House (Cont'd)</u>		
	Hoses Attached	Sprinklers Restored to Original State
152	/	/
219	/	/
149 (DWG. 1X4DB174-4)	/	/
2. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.	Connected /	Disconnected /
<u>Section 6.36 Turbine Bldg.</u>		
1. Attach hoses to the fittings of the following sprinklers and connect to waste.		
<u>NOTE:</u>		
<p>These hoses may be installed just prior to flushing in the designated area, and then removed immediately after completion, for use in the the next area. In this way, the number of hoses can be minimized.</p>		
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.36 Turbine Bldg. (Cont'd)</u>		
West pipe sprinklers downstream of the following isolation valves.	Hoses Attached	Sprinklers Restored to Original State
900	/	/
901	/	/
902	/	/
903	/	/
899	/	/
529	/	/
528	/	/
527	/	/
551	/	/
552	/	/
553	/	/
522	/	/
556	/	/
557	/	/

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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.36 Turbine Bldg. (Cont'd)</u>		
	Hoses Attached	Sprinklers Restored to Original State
558	/	/
540	/	/
541	/	/
542	/	/
543	/	/
544	/	/
545 (DWG. 1X4DB173)	/	/
2.		
Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have an in-line valve	Internals Removed	Valves Restored
513	/	/
516 (DWG. 1X4DB173)	/	/
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TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<u>FLUSHING MODIFICATIONS</u>		
<u>Section 6.36 Turbine Bldg. (Cont'd)</u>		
<p>3. Remove/Restore valve bonnets and install adapter with temporary line to waste. Temporary line to have in-line valve. Only in the event that the deluge system is already installed, is it necessary to plug the line downstream of these valves.</p> <p>523</p> <p>524 (DWG. 1X4DB173)</p>	<p>Internals Removed</p> <p>_____ / _____</p> <p>_____ / _____</p>	<p>Valves Restored</p> <p>_____ / _____</p> <p>_____ / _____</p>
<p>4. Attach air hose connection to adapter on removed bonnet of valve 685.</p> <p>(DWG. 1X4DB173, D-8)</p> <p>Line 680-4"</p>	<p>Hose Installed</p> <p>_____ / _____</p>	<p>Hose Removed</p> <p>_____ / _____</p>
<p>5. Connect/Disconnect temporary hoses at Fire Hose Stations and Fire Hydrants.</p>	<p>Connected</p> <p>_____ / _____</p>	<p>Disconnected</p> <p>_____ / _____</p>
<p style="text-align: center;">46                      47</p> <p style="text-align: center;">Sheet _____ of _____</p>		

VEGP-1  
 1-1KC-01  
 REV. 0

ATTACHMENT 10.3

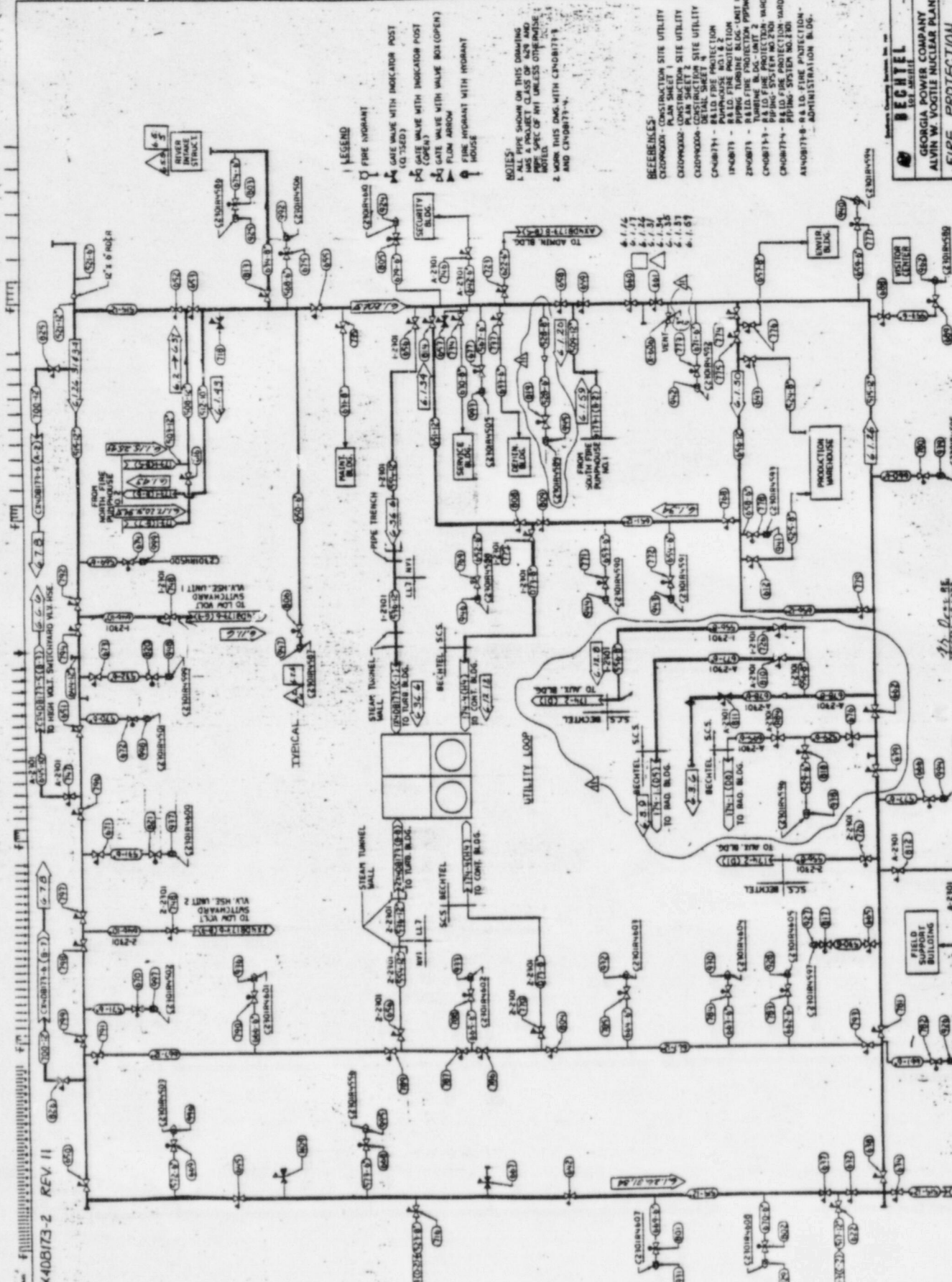
TEMPORARY MODIFICATION STATUS

MODIFICATION/RESTORATION	STATUS BEFORE FLUSHING	STATUS AFTER FLUSHING
<p><u>TEMPORARY INSTRUMENTATION</u></p> <p>None Required</p>		
<p style="text-align: center;">Sheet <u>47</u> of <u>47</u></p>		





FSC408173-2 REV II



LEGEND

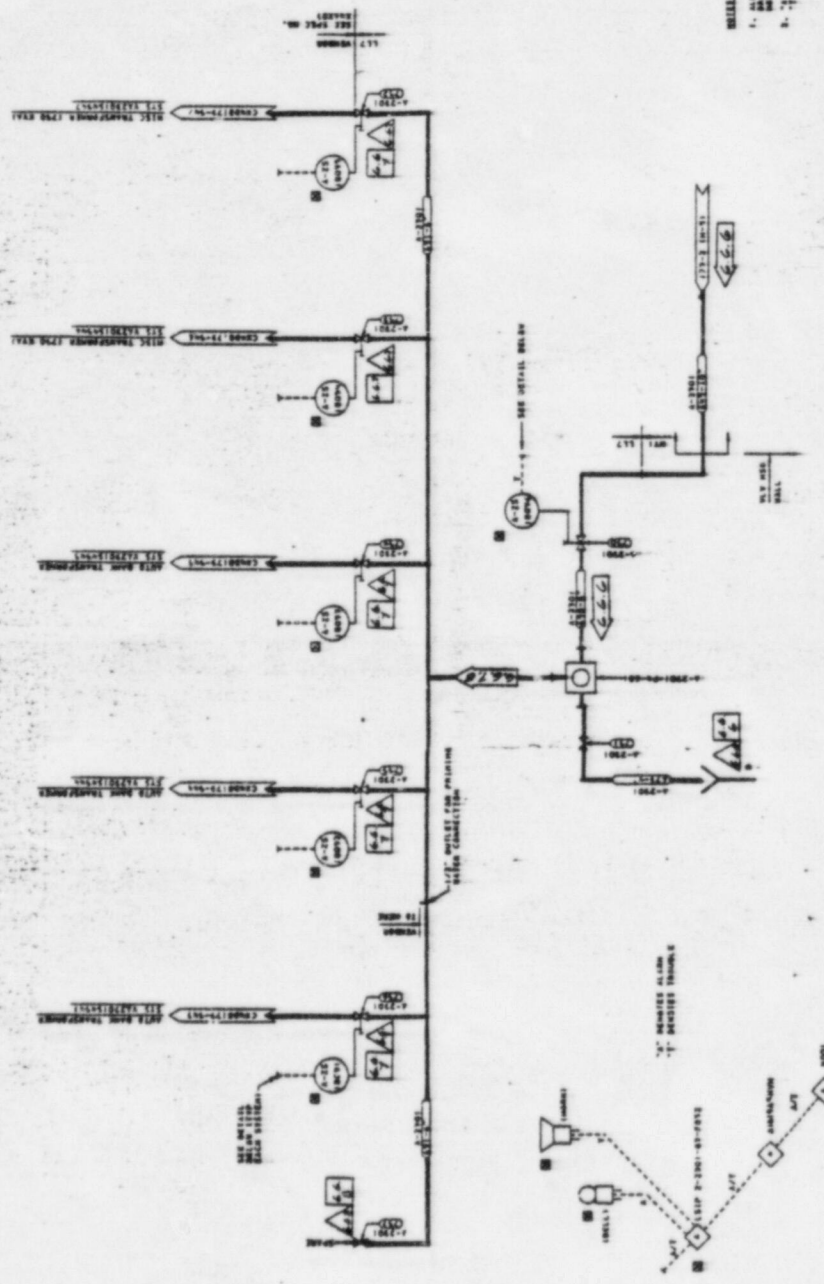
- FIRE HYDRANT
- GATE VALVE WITH INDICATOR POST (Q-TAGS)
- GATE VALVE WITH INDICATOR POST
- GATE VALVE WITH VALVE BOL (OPEN)
- FLOW ARROW
- FIRE HYDRANT WITH HOSE

NOTES:  
 1. PIPES SHOWN ON THIS DRAWING HAVE A PROJECT CLASS OF A20 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE SPEC. OF A20 UNLESS OTHERWISE NOTED.  
 2. WORK THIS DRAWING WITH CNOB173-1 AND CNOB173-2.

- REFERENCES:
- CNOB173-1 - CONSTRUCTION SITE UTILITY PLAN SHEET 1
  - CNOB173-2 - CONSTRUCTION SITE UTILITY PLAN SHEET 2
  - CNOB173-3 - CONSTRUCTION SITE UTILITY PLAN SHEET 3
  - CNOB173-4 - CONSTRUCTION SITE UTILITY PLAN SHEET 4
  - CNOB173-5 - CONSTRUCTION SITE UTILITY PLAN SHEET 5
  - CNOB173-6 - CONSTRUCTION SITE UTILITY PLAN SHEET 6
  - CNOB173-7 - CONSTRUCTION SITE UTILITY PLAN SHEET 7
  - CNOB173-8 - CONSTRUCTION SITE UTILITY PLAN SHEET 8
  - CNOB173-9 - CONSTRUCTION SITE UTILITY PLAN SHEET 9
  - CNOB173-10 - CONSTRUCTION SITE UTILITY PLAN SHEET 10
  - CNOB173-11 - CONSTRUCTION SITE UTILITY PLAN SHEET 11
  - CNOB173-12 - CONSTRUCTION SITE UTILITY PLAN SHEET 12
  - CNOB173-13 - CONSTRUCTION SITE UTILITY PLAN SHEET 13
  - CNOB173-14 - CONSTRUCTION SITE UTILITY PLAN SHEET 14
  - CNOB173-15 - CONSTRUCTION SITE UTILITY PLAN SHEET 15
  - CNOB173-16 - CONSTRUCTION SITE UTILITY PLAN SHEET 16
  - CNOB173-17 - CONSTRUCTION SITE UTILITY PLAN SHEET 17
  - CNOB173-18 - CONSTRUCTION SITE UTILITY PLAN SHEET 18
  - CNOB173-19 - CONSTRUCTION SITE UTILITY PLAN SHEET 19
  - CNOB173-20 - CONSTRUCTION SITE UTILITY PLAN SHEET 20
  - CNOB173-21 - CONSTRUCTION SITE UTILITY PLAN SHEET 21
  - CNOB173-22 - CONSTRUCTION SITE UTILITY PLAN SHEET 22
  - CNOB173-23 - CONSTRUCTION SITE UTILITY PLAN SHEET 23
  - CNOB173-24 - CONSTRUCTION SITE UTILITY PLAN SHEET 24
  - CNOB173-25 - CONSTRUCTION SITE UTILITY PLAN SHEET 25
  - CNOB173-26 - CONSTRUCTION SITE UTILITY PLAN SHEET 26
  - CNOB173-27 - CONSTRUCTION SITE UTILITY PLAN SHEET 27
  - CNOB173-28 - CONSTRUCTION SITE UTILITY PLAN SHEET 28
  - CNOB173-29 - CONSTRUCTION SITE UTILITY PLAN SHEET 29
  - CNOB173-30 - CONSTRUCTION SITE UTILITY PLAN SHEET 30
  - CNOB173-31 - CONSTRUCTION SITE UTILITY PLAN SHEET 31
  - CNOB173-32 - CONSTRUCTION SITE UTILITY PLAN SHEET 32
  - CNOB173-33 - CONSTRUCTION SITE UTILITY PLAN SHEET 33
  - CNOB173-34 - CONSTRUCTION SITE UTILITY PLAN SHEET 34
  - CNOB173-35 - CONSTRUCTION SITE UTILITY PLAN SHEET 35
  - CNOB173-36 - CONSTRUCTION SITE UTILITY PLAN SHEET 36
  - CNOB173-37 - CONSTRUCTION SITE UTILITY PLAN SHEET 37
  - CNOB173-38 - CONSTRUCTION SITE UTILITY PLAN SHEET 38
  - CNOB173-39 - CONSTRUCTION SITE UTILITY PLAN SHEET 39
  - CNOB173-40 - CONSTRUCTION SITE UTILITY PLAN SHEET 40
  - CNOB173-41 - CONSTRUCTION SITE UTILITY PLAN SHEET 41
  - CNOB173-42 - CONSTRUCTION SITE UTILITY PLAN SHEET 42
  - CNOB173-43 - CONSTRUCTION SITE UTILITY PLAN SHEET 43
  - CNOB173-44 - CONSTRUCTION SITE UTILITY PLAN SHEET 44
  - CNOB173-45 - CONSTRUCTION SITE UTILITY PLAN SHEET 45
  - CNOB173-46 - CONSTRUCTION SITE UTILITY PLAN SHEET 46
  - CNOB173-47 - CONSTRUCTION SITE UTILITY PLAN SHEET 47
  - CNOB173-48 - CONSTRUCTION SITE UTILITY PLAN SHEET 48
  - CNOB173-49 - CONSTRUCTION SITE UTILITY PLAN SHEET 49
  - CNOB173-50 - CONSTRUCTION SITE UTILITY PLAN SHEET 50

**BECHTEL**  
 GEORGIA POWER COMPANY  
 ALVIN W. YOSTLE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH  
 FSI-1K-01  
 0

FSC408173-5 REV. 4



ANNUNCIATOR DETAIL  
(TYPICAL EACH SYSTEM)

BEAM VOLTAGE SWITCHGEAR  
VALVEHOUSE NO. 1

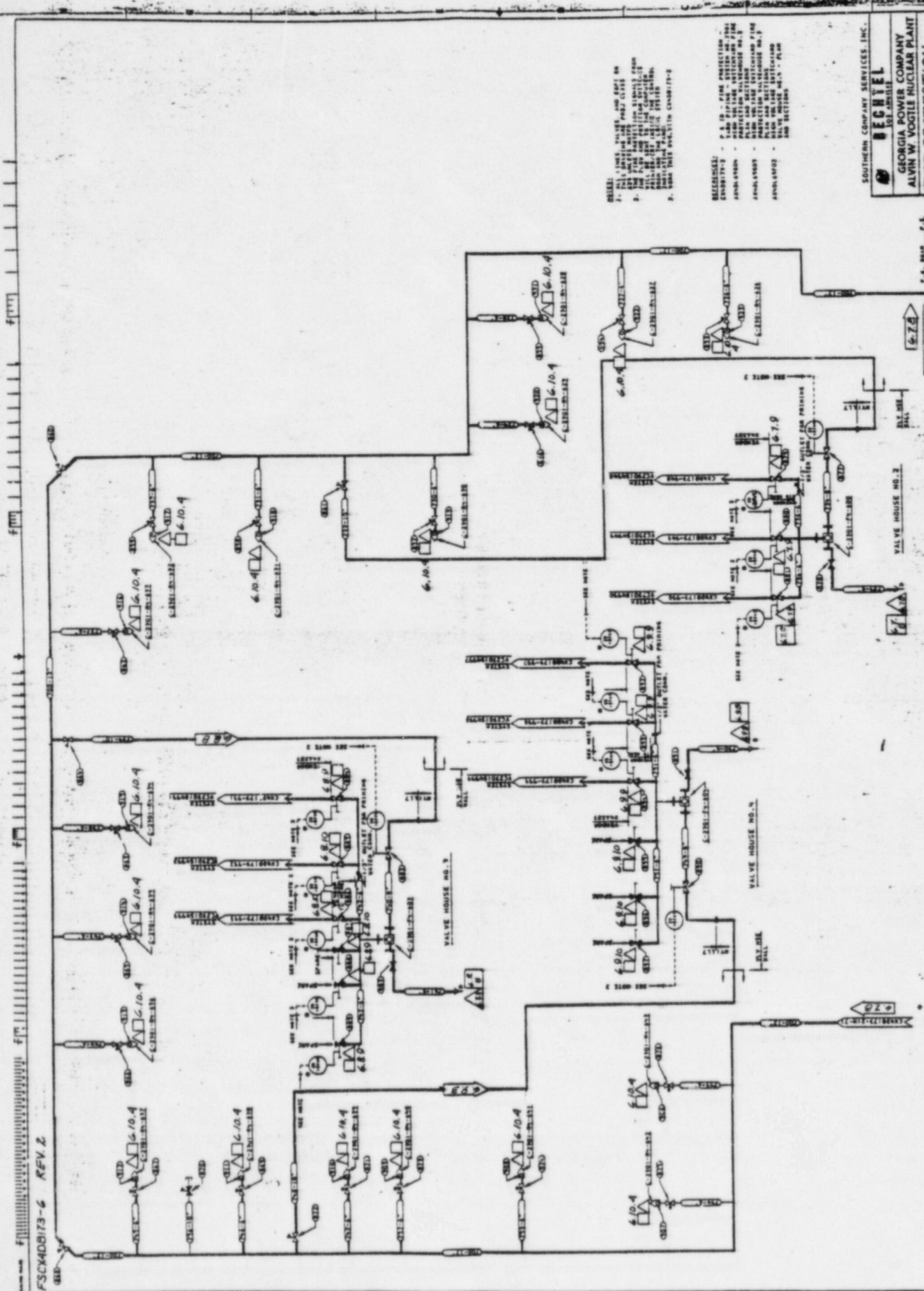
8 1/2 HOUR  
GEORGIA NO. 5932

REVISIONS:  
1. ALL WORK TO BE DONE AND CHECKED BY THE  
OWNER OR HIS REPRESENTATIVE.  
2. BECHTEL ENGINEERS

REVISIONS:  
NOV-1965 - PERMITS FOR CONSTRUCTION - FIVE  
APPROVED - PERMITS FOR CONSTRUCTION - FIVE  
SECTION

SOUTHERN COMPANY SERVICES, INC.  
**BECHTEL**  
ENGINEERS  
GEORGIA POWER COMPANY  
ALVIN W. VOITTE NUCLEAR PLANT  
**FIRE PROTECTION  
WATER SYSTEM FLUSH**

NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/15/65	ISSUED FOR CONSTRUCTION	...	...
2	11/15/65	ISSUED FOR CONSTRUCTION	...	...
3	11/15/65	ISSUED FOR CONSTRUCTION	...	...
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FSC40813-6 REV. 2

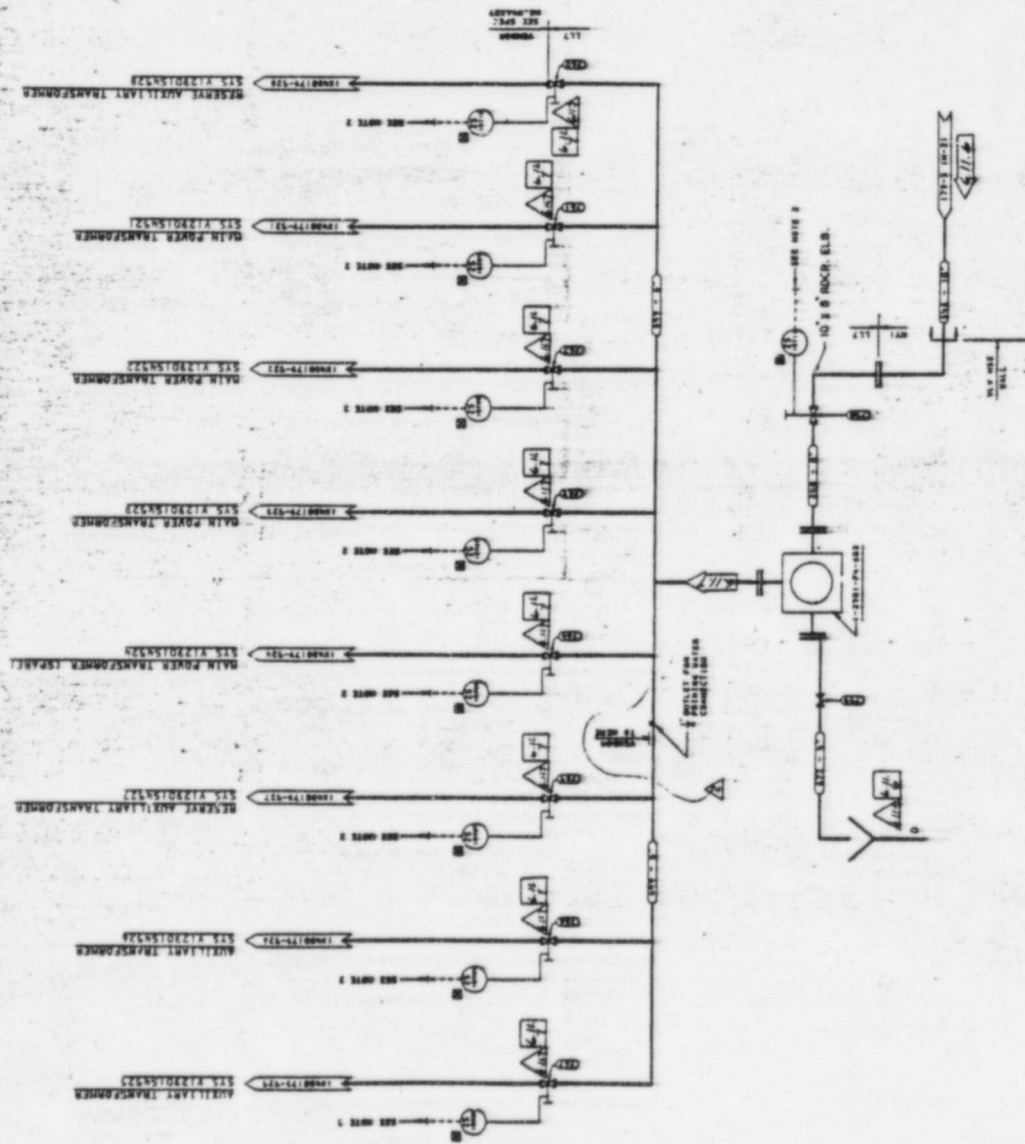
- REVISIONS:
1. ALL WORKING DRAWINGS AND SPEC. ON THIS PROJECT ARE TO BE KEPT IN THE OFFICE OF THE PROJECT ENGINEER, 1000 W. BROAD ST., SUITE 1000, ATLANTA, GA 30334.
  2. ALL WORKING DRAWINGS AND SPEC. ON THIS PROJECT ARE TO BE KEPT IN THE OFFICE OF THE PROJECT ENGINEER, 1000 W. BROAD ST., SUITE 1000, ATLANTA, GA 30334.
  3. ALL WORKING DRAWINGS AND SPEC. ON THIS PROJECT ARE TO BE KEPT IN THE OFFICE OF THE PROJECT ENGINEER, 1000 W. BROAD ST., SUITE 1000, ATLANTA, GA 30334.

DESIGNED BY: P. B. BROWN, PROJECT ENGINEER  
 CHECKED BY: J. W. BROWN, PROJECT ENGINEER  
 APPROVED BY: J. W. BROWN, PROJECT ENGINEER  
 DATE: 10/10/68

SOUTHERN COMPANY SERVICES, INC.  
**BECHTEL**  
 101 AMBROSIE  
 GEORGIA POWER COMPANY  
 ALVIN W. VOGEL NUCLEAR PLANT  
**FIRE PROTECTION**  
**WATER SYSTEM FLUSH**

PROJECT NO. 40813-6  
 SHEET NO. 10  
 DATE: 10/10/68

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	10/10/68	J. W. BROWN	J. W. BROWN
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			



DETAIL: 1. WIRE, VALVES & SERVICE ON THIS  
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REVISIONS:  
REV. 10/10/68 - SEE WIRE 2  
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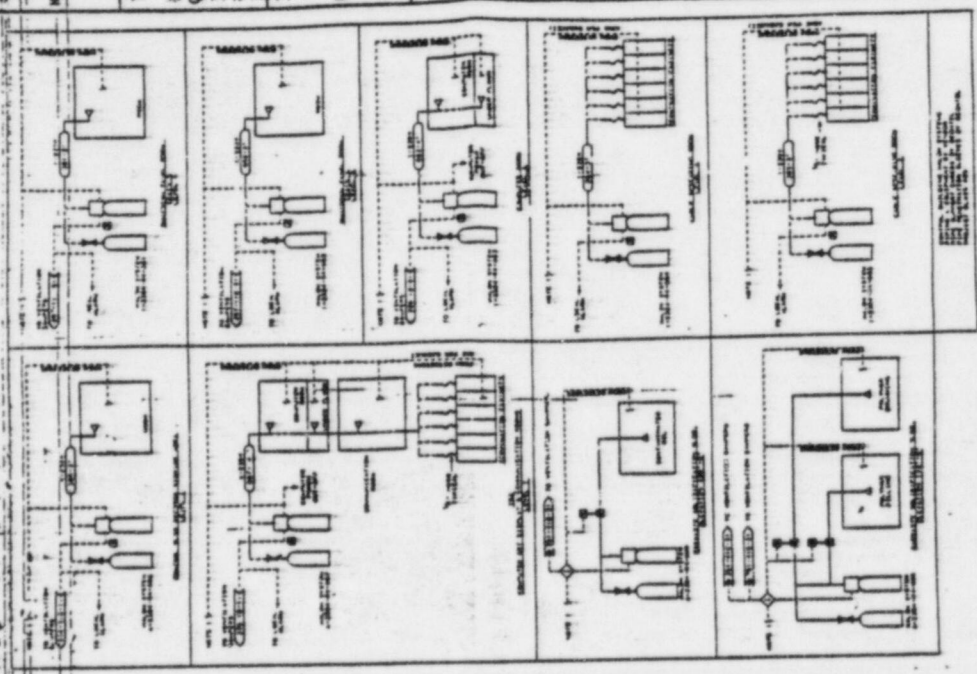
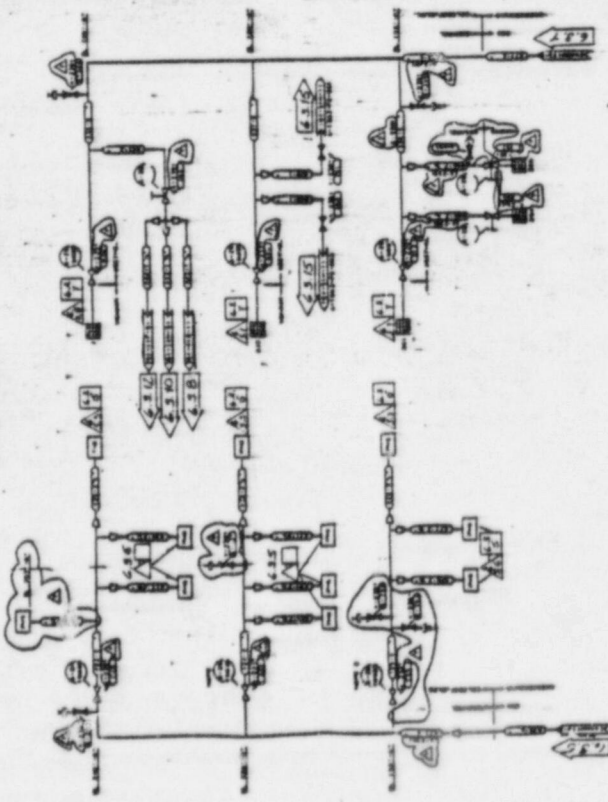
SOUTHERN COMPANY SERVICES, INC.  
**BECHTEL**  
 101 AVENUE  
 GEORGIA POWER COMPANY  
 ALVIN W. VOGTLE NUCLEAR PLANT  
**FIRE PROTECTION**  
**WATER SYSTEM FLUSH**  
 SUBCIRCUIT  
 SHEET NO. FS1-1KC-01  
 OF 2

24.6 (REV. 10/10/68)

NO.	DATE	DESCRIPTION	BY	CHKD.
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7-SIMDBIT4-1 REV 7



**SECRET**

GEORGIA POWER COMPANY  
 AVIN W. YOUNG MOBILE PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH

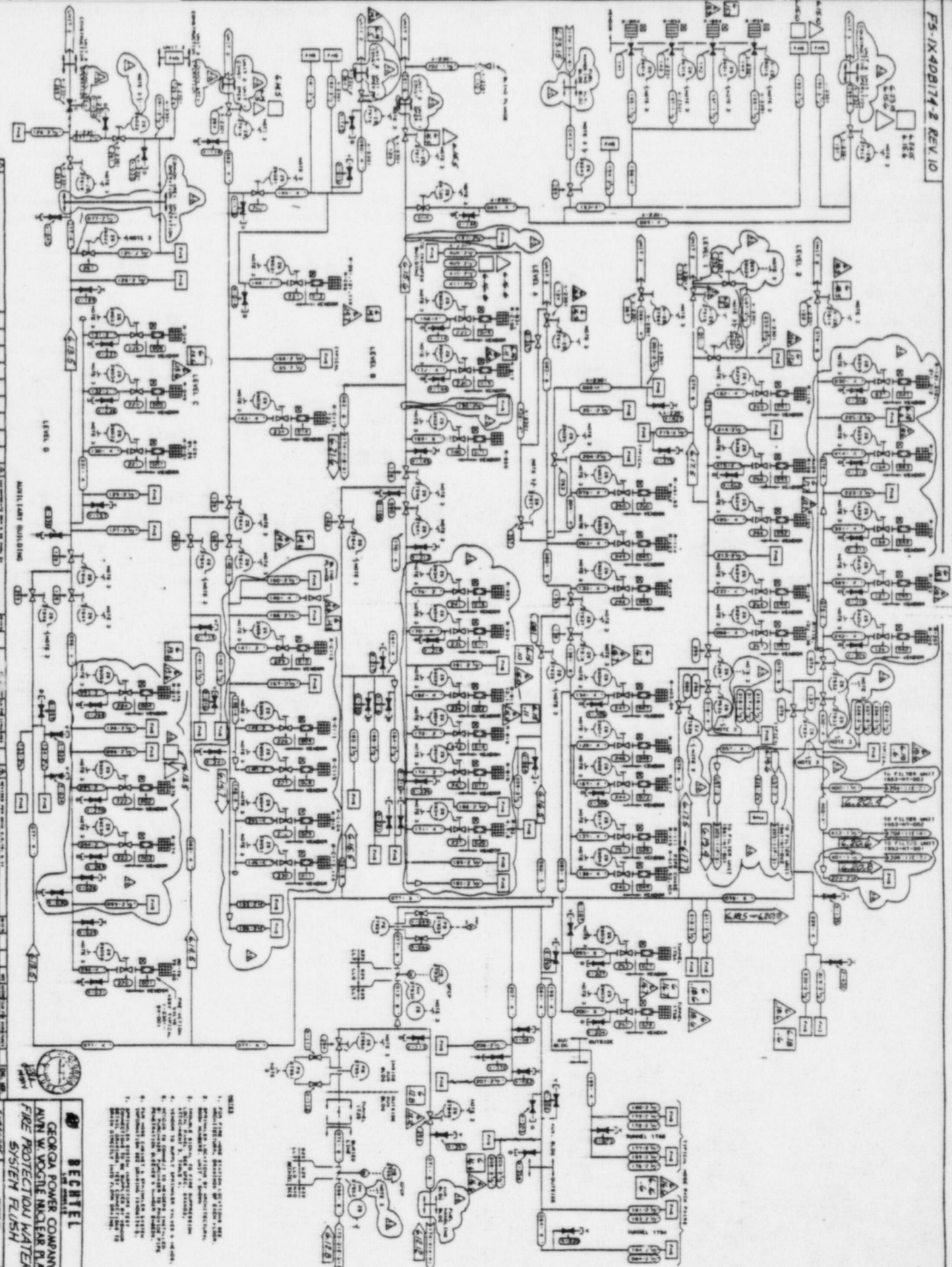
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DATE 2/14/85  
 BY [Signature]  
 TITLE [Signature]

16X



NO.	DESCRIPTION	QTY.	UNIT	REMARKS
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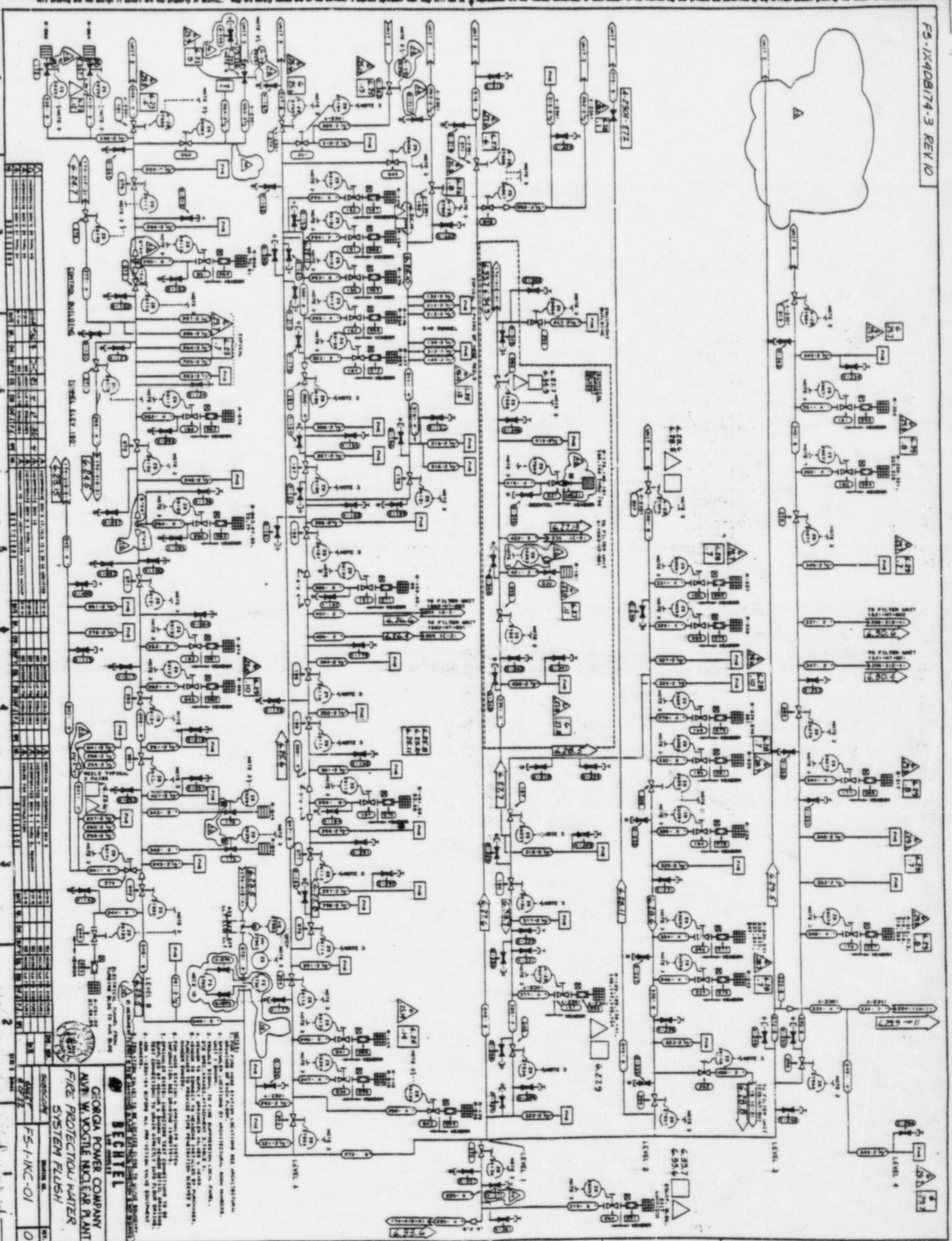
**NOTES**

1. SEE OTHER DRAWINGS FOR SYSTEM DETAILS.
2. ALL DIMENSIONS ARE IN FEET AND INCHES.
3. MATERIALS TO BE USED AS SHOWN ON THIS DRAWING.
4. WORKMANSHIP TO BE IN ACCORDANCE WITH THE CODES AND STANDARDS OF THE FIRE PROTECTION INDUSTRY.
5. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE FIRE PROTECTION INDUSTRY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING PLANT AND EQUIPMENT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING WORK.



**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. WOODRUFF NUCLEAR PLANT  
 FIRE PROTECTION WATER  
 SYSTEM FLUSH

FS-1-INC-01  
 SHEET NO. 1  
 OF 1



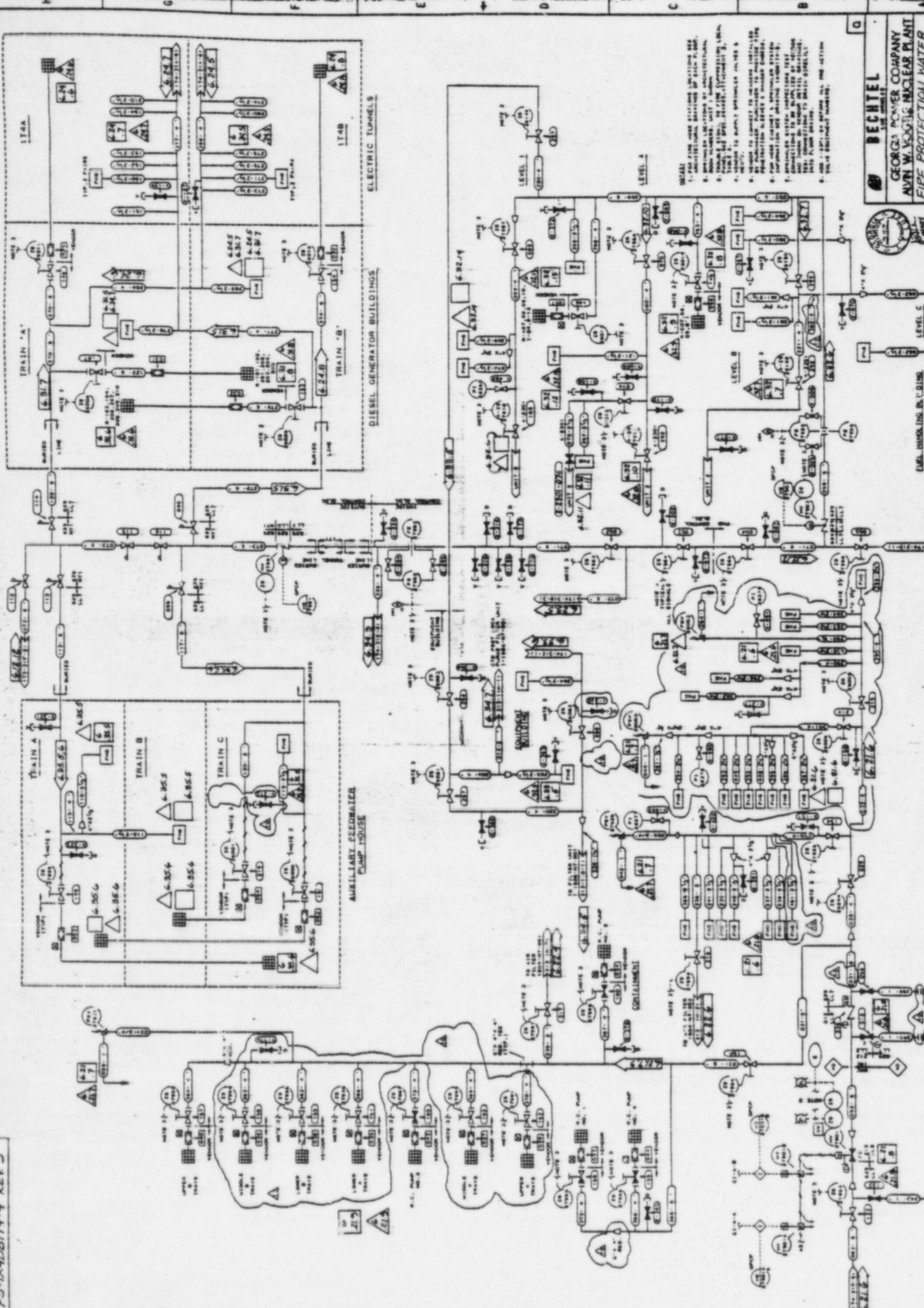
NO.	DESCRIPTION	DATE	BY	CHKD.
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**BECHTEL**  
 GEORGIA POWER COMPANY  
 AND WOODRIDGE NUCLEAR PLANT  
 FIRE PROTECTION WATER  
 SYSTEM FLUSH

FS-1-KC-01

1. GENERAL SYSTEM DESCRIPTION AND IDENTIFICATION.
2. SYSTEM DESCRIPTION AND IDENTIFICATION.
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9. SYSTEM DESCRIPTION AND IDENTIFICATION.
10. SYSTEM DESCRIPTION AND IDENTIFICATION.

FS-IX-DB174-4 REV 5



- LEGEND
1. FOR FIRE PROTECTION WATER SYSTEM SEE SECTION 17.000 OF THE PROJECT MANUAL.
  2. WATER TANKS: WATER 1 - WATER 100.
  3. WATER PUMPS: WATER 1 - WATER 100.
  4. WATER TO SUPPLY WATER TANKS & WATER PUMPS.
  5. WATER TO SUPPLY WATER TANKS & WATER PUMPS.
  6. WATER TO SUPPLY WATER TANKS & WATER PUMPS.
  7. WATER TO SUPPLY WATER TANKS & WATER PUMPS.
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  10. WATER TO SUPPLY WATER TANKS & WATER PUMPS.

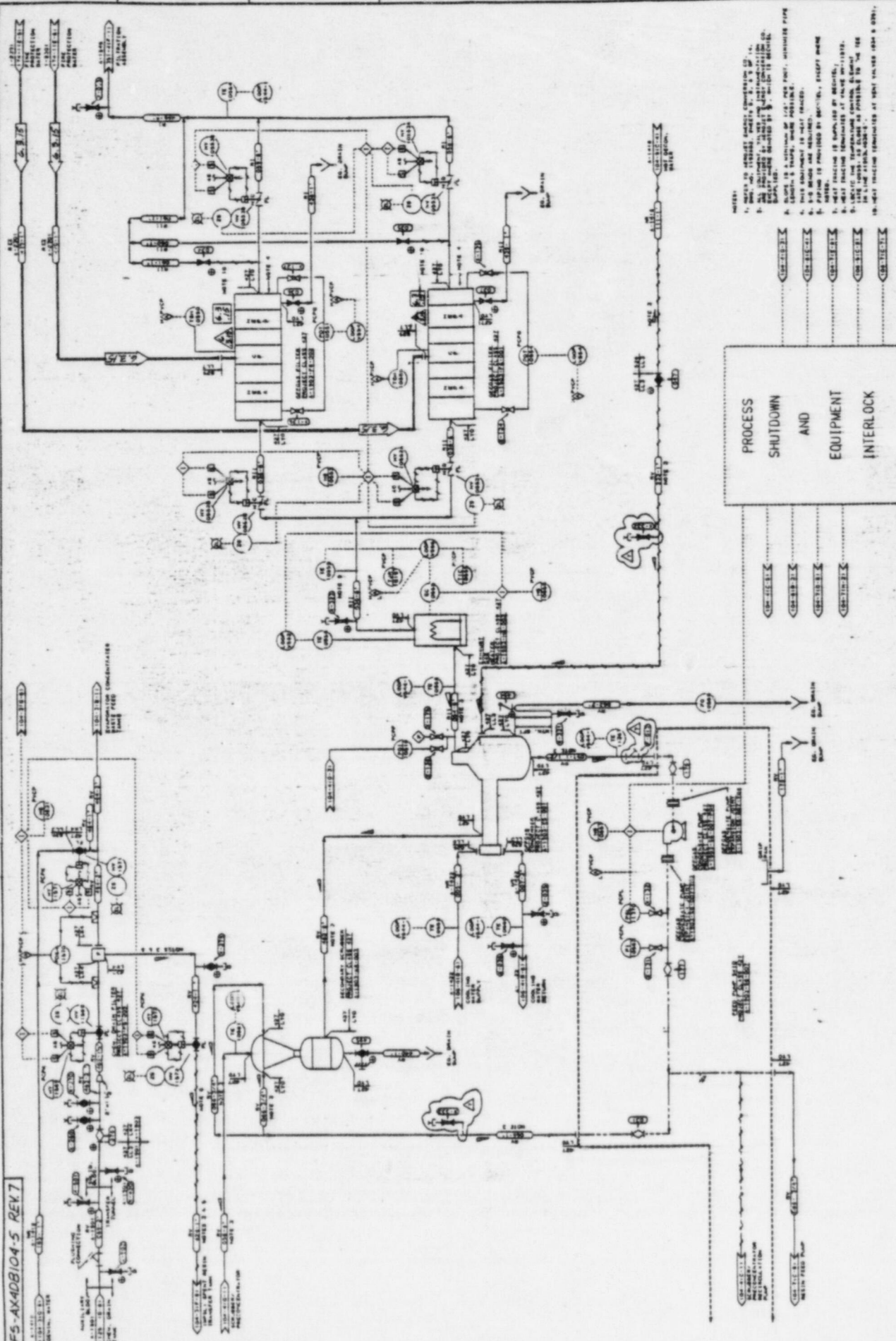
**BECHTEL**  
 GEORGE POWER COMPANY  
 AVON W. MASS. NUCLEAR PLANT  
 FIRE PROTECTION WATER  
 SYSTEM FLUSH

DATE: 11/11/64  
 DRAWING NO.: FS-1-KC-01-10  
 SHEET NO.: 1

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	11/11/64	J. W. BROWN	J. W. BROWN
2	REVISION			
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F5-AX4DB104-5 REV 17



**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVIN W. VOGTE NUCLEAR PLANT  
 FIRE PROTECTION WATER  
 SYSTEM FLUSH



- NOTES:
1. REFER TO PROCESS WATER SYSTEMS OF...
  2. ALL INSTRUMENTS, VALVES AND CONTROLS...
  3. THE SYSTEM IS TO BE FLUSHED...
  4. THE SYSTEM IS TO BE FLUSHED...
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  10. THE SYSTEM IS TO BE FLUSHED...

PROCESS  
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 AND  
 EQUIPMENT  
 INTERLOCK

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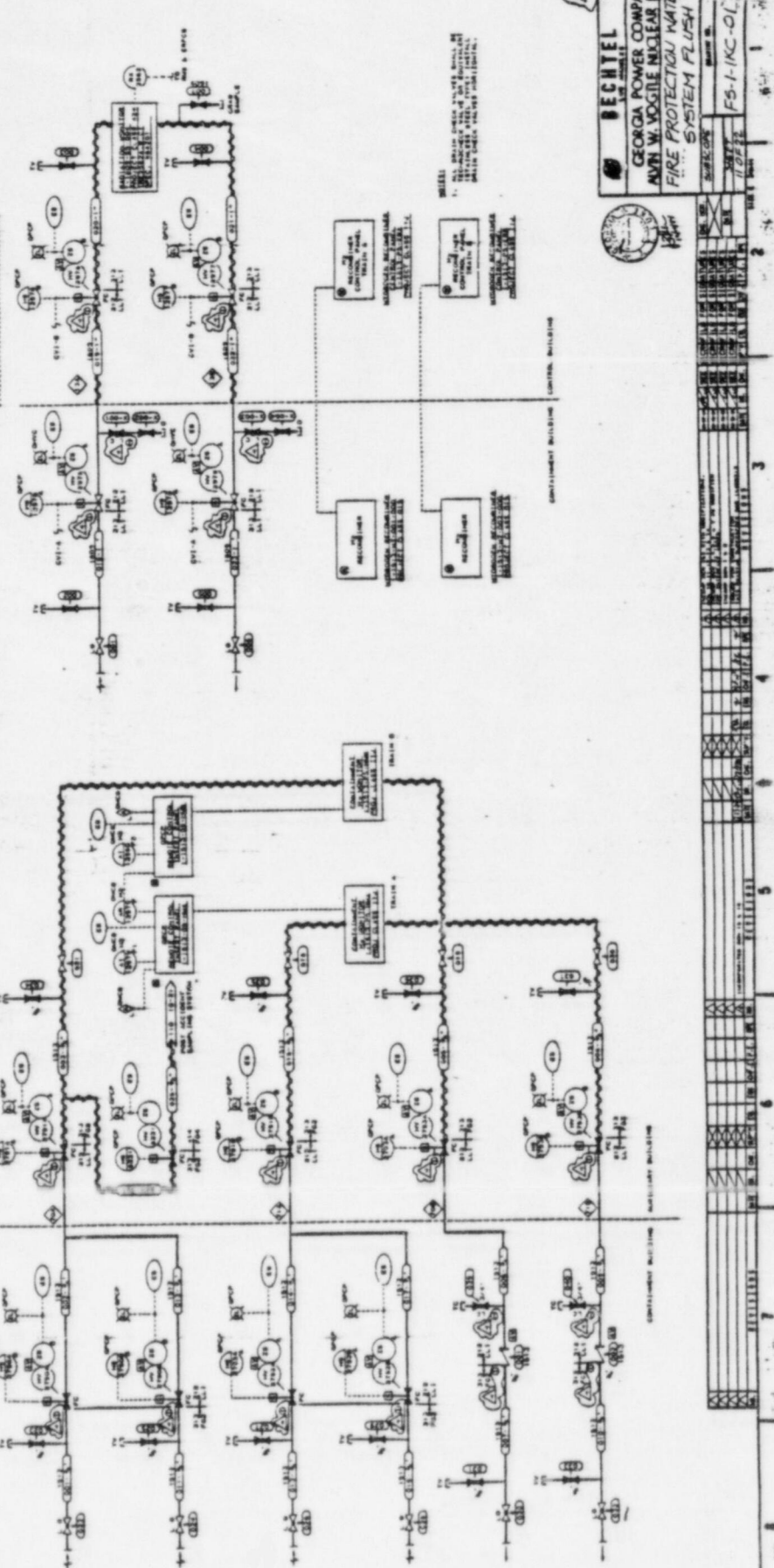
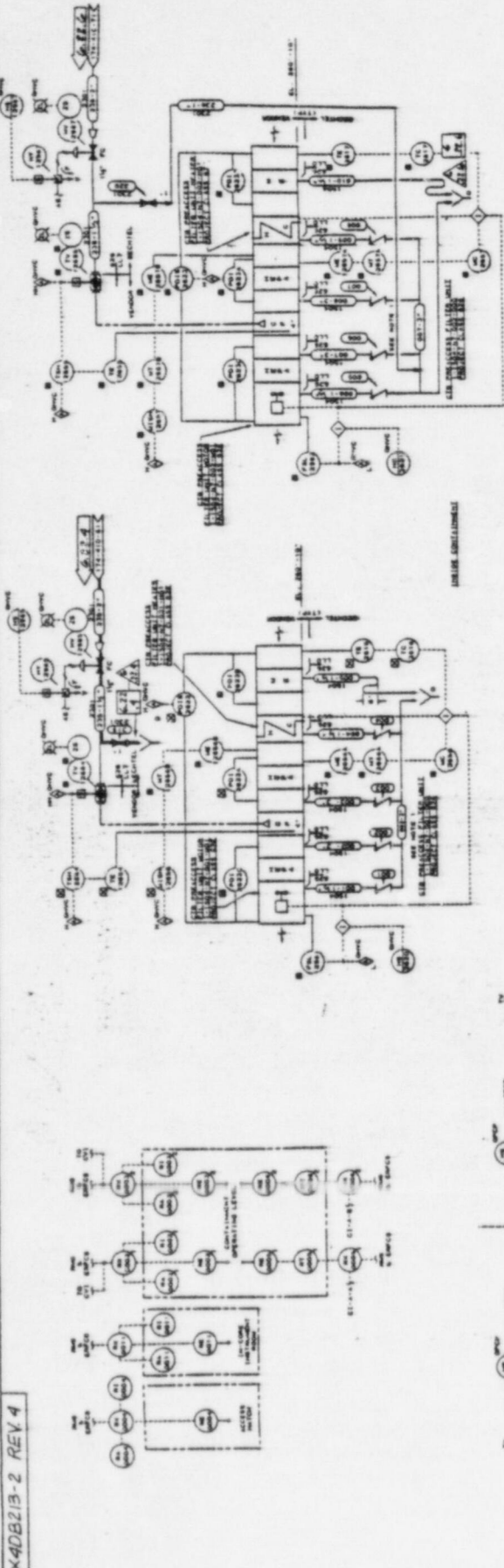
DATE: 11/11/67  
 DRAWING NO.: F5-1(KC-01)  
 SHEET NO.: 1 OF 1

11/11/67

11/11/67

11/11/67

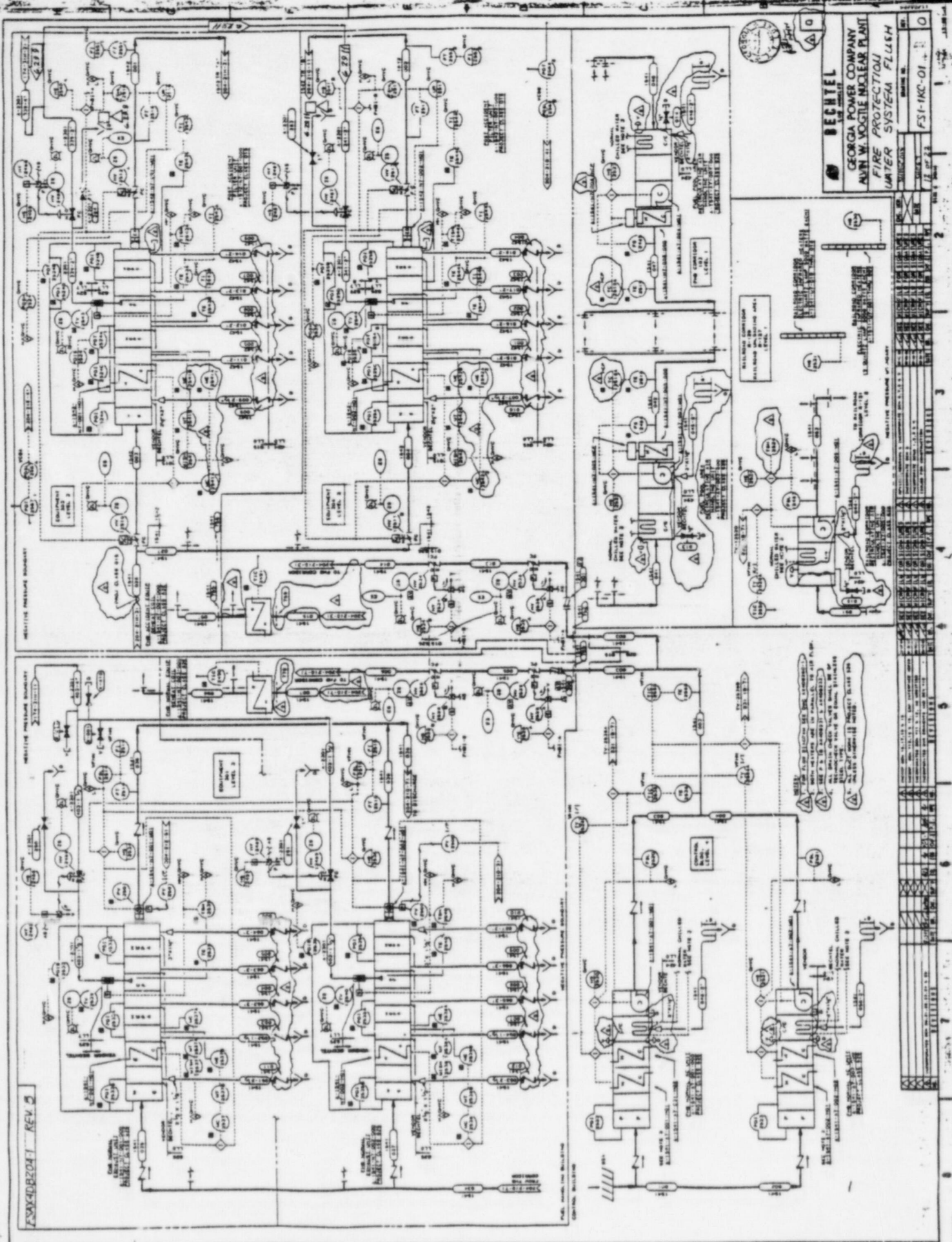
FS-1X40B213-2 REV. 4



**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. YOGGIE NUCLEAR PLANT  
 FIRE PROTECTION WATER SYSTEM FLUSH

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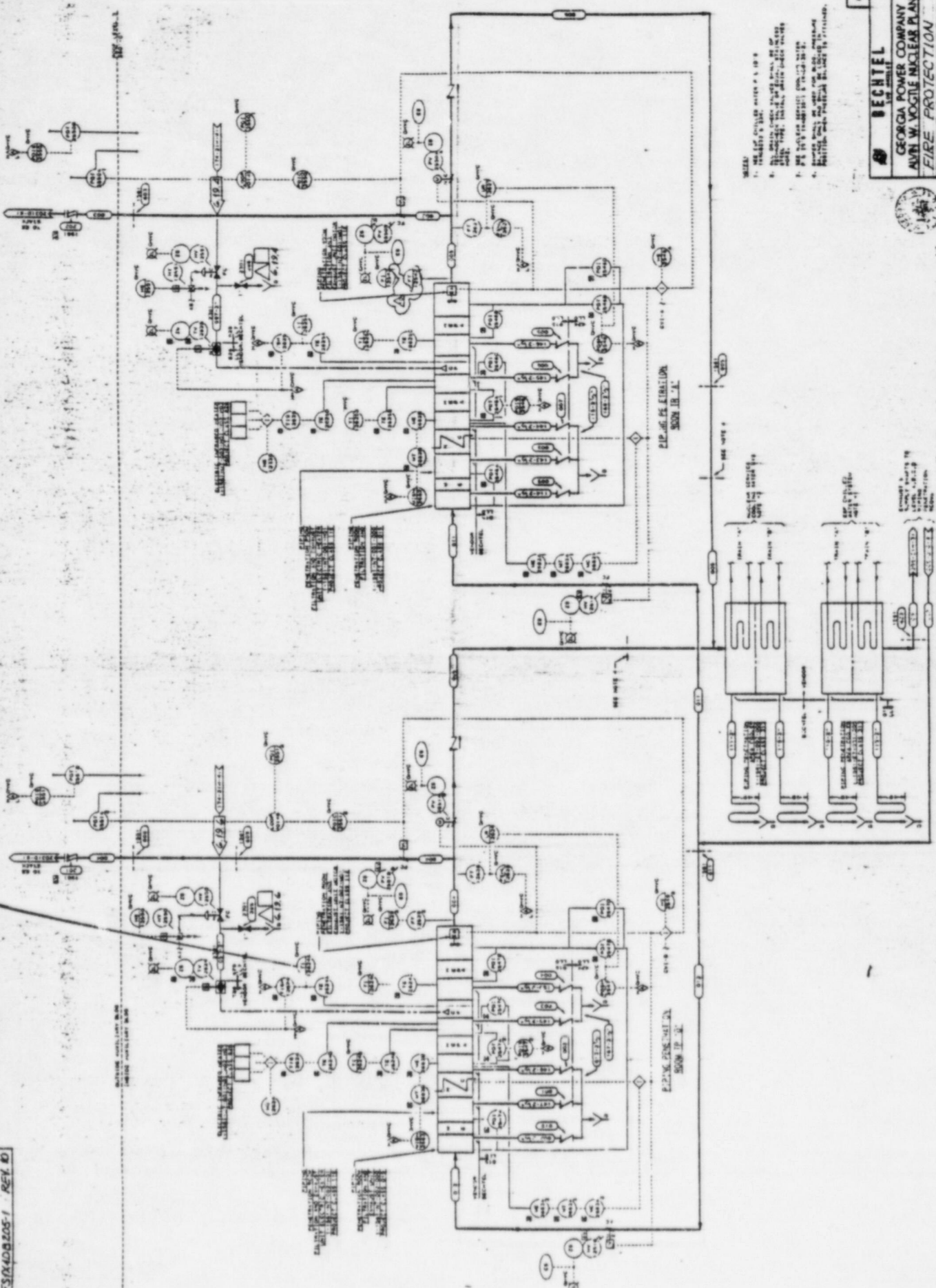


**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. YOSTIE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH  
 DRAWING NO. FS-1-KC-01  
 SHEET 12 OF 23

NO.	DATE	DESCRIPTION
1	11/15/68	ISSUED FOR CONSTRUCTION
2	12/15/68	REVISED TO SHOW CHANGES TO THE SYSTEM
3	1/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
4	2/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
5	3/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
6	4/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
7	5/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
8	6/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
9	7/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
10	8/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
11	9/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM
12	10/15/69	REVISED TO SHOW CHANGES TO THE SYSTEM

THIS DRAWING AND THE DESIGN IT SHOWS ARE THE PROPERTY OF BECHTEL. They are not to be used for any other project without the written consent of BECHTEL. Any use of this drawing for any other project without the written consent of BECHTEL is strictly prohibited.

FS1X40.0205-1 REV. 10



- NOTES:
1. ALL PIPING SHALL BE 1/2" N.P.S.
  2. ALL VALVES SHALL BE 1/2" N.P.S. AND SHALL BE OF THE FULL PORT TYPE.
  3. ALL PIPING SHALL BE OF THE FULL PORT TYPE.
  4. ALL PIPING SHALL BE OF THE FULL PORT TYPE.

**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. YOSTLE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH

PROJECT NO. FS1-1KC-01

DATE: 12/22/66

BY: [Signature]

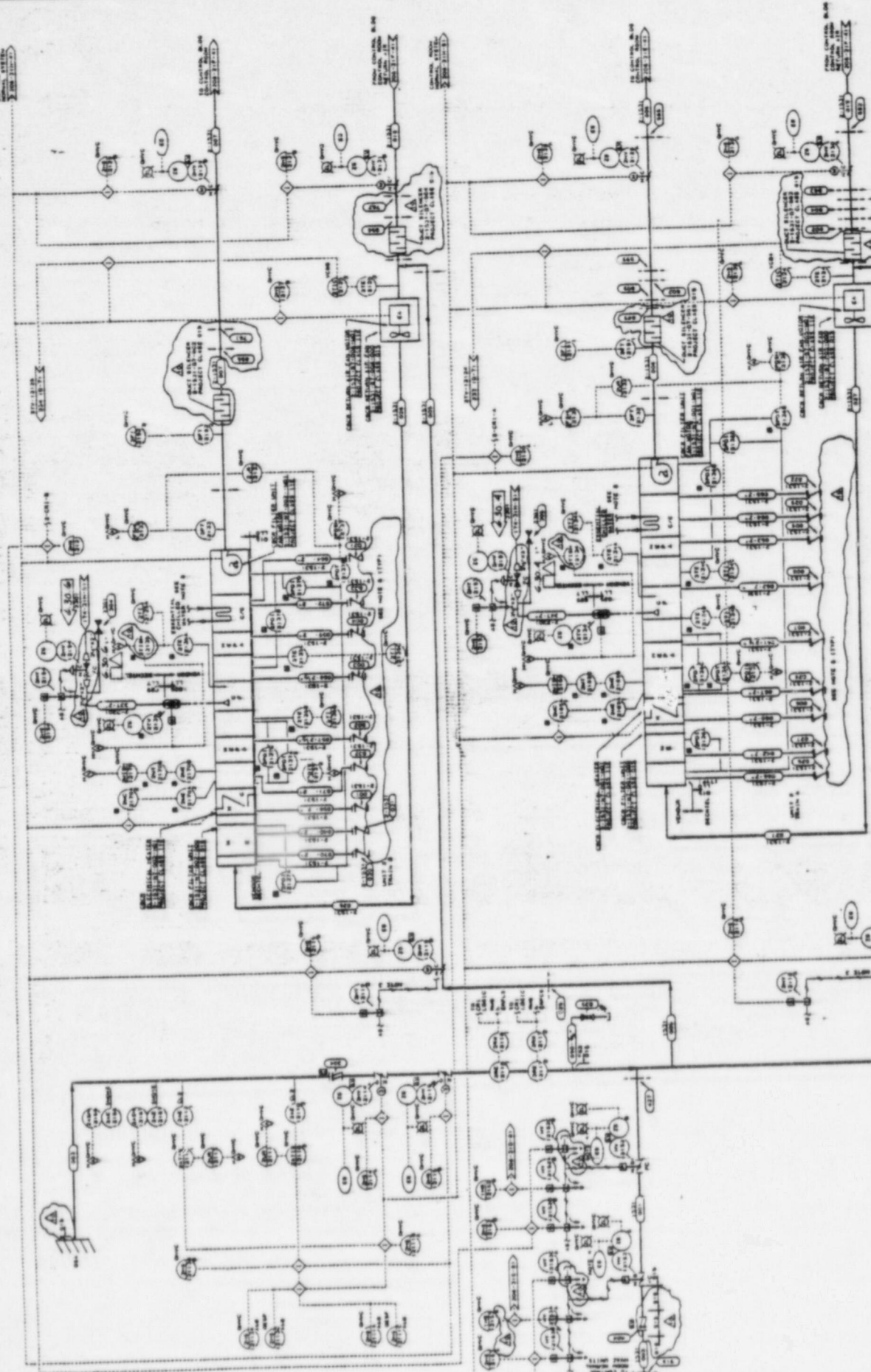
REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	12/22/66
2	REVISION	
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4	REVISION	
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NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	12/22/66
2	REVISION	
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FSAX4BZ06-1 REV. 10



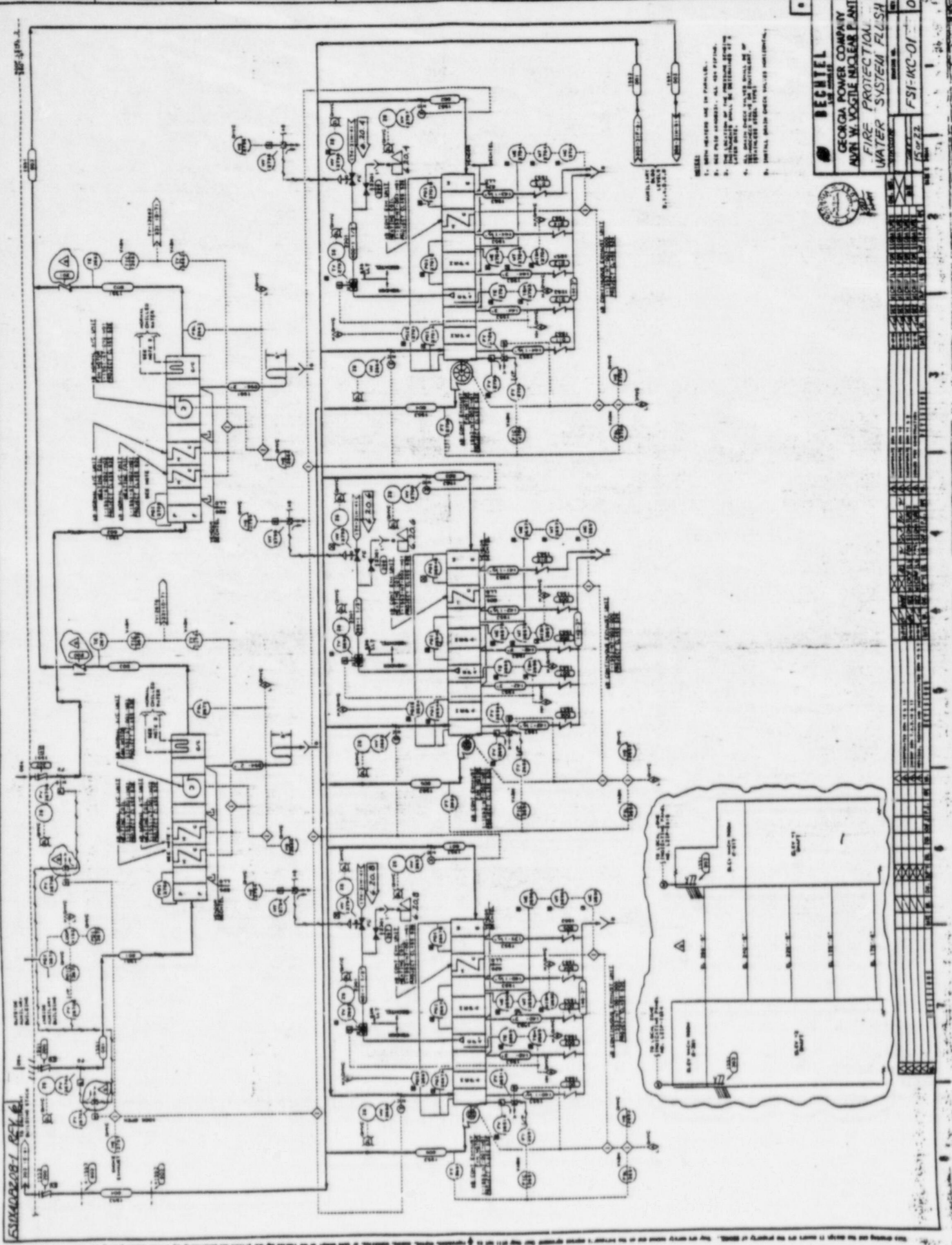
**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVIN W. VOIGTE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH

- NOTES:
1. INDICATED SYMBOLS ARE NOT TO BE USED UNLESS SPECIFICALLY NOTED OTHERWISE.
  2. THE SYSTEM IS TO BE OPERATED IN ACCORDANCE WITH THE OPERATING MANUAL.
  3. THE SYSTEM IS TO BE OPERATED IN ACCORDANCE WITH THE OPERATING MANUAL.
  4. THE SYSTEM IS TO BE OPERATED IN ACCORDANCE WITH THE OPERATING MANUAL.

Δ REFERS TO PLAN DRAWING ADDRESS...  
 Δ REFERS TO OTHER DRAWING ADDRESS...  
 Δ REFERS TO OTHER DRAWING ADDRESS...

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	11/17/68	J. W. VOIGT	
2	REVISION	11/17/68	J. W. VOIGT	
3	REVISION	11/17/68	J. W. VOIGT	
4	REVISION	11/17/68	J. W. VOIGT	
5	REVISION	11/17/68	J. W. VOIGT	
6	REVISION	11/17/68	J. W. VOIGT	
7	REVISION	11/17/68	J. W. VOIGT	
8	REVISION	11/17/68	J. W. VOIGT	
9	REVISION	11/17/68	J. W. VOIGT	
10	REVISION	11/17/68	J. W. VOIGT	
11	REVISION	11/17/68	J. W. VOIGT	
12	REVISION	11/17/68	J. W. VOIGT	
13	REVISION	11/17/68	J. W. VOIGT	
14	REVISION	11/17/68	J. W. VOIGT	
15	REVISION	11/17/68	J. W. VOIGT	
16	REVISION	11/17/68	J. W. VOIGT	
17	REVISION	11/17/68	J. W. VOIGT	
18	REVISION	11/17/68	J. W. VOIGT	
19	REVISION	11/17/68	J. W. VOIGT	
20	REVISION	11/17/68	J. W. VOIGT	

FS-1-KC-01  
 SHEET NO. 10 OF 25



- NOTES:
1. REFER DRAWING SET TO PROJECT.
  2. SEE PUMP SCHEDULE, ALL SET POINTS.
  3. ALL VALVES SHALL BE OPERATED BY 24 VDC.
  4. ALL ELECTRICAL SYMBOLS SHALL BE AS SHOWN ON THE DRAWING.
  5. MATERIALS SHALL BE AS SHOWN ON THE DRAWING.

**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. YOGTE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH

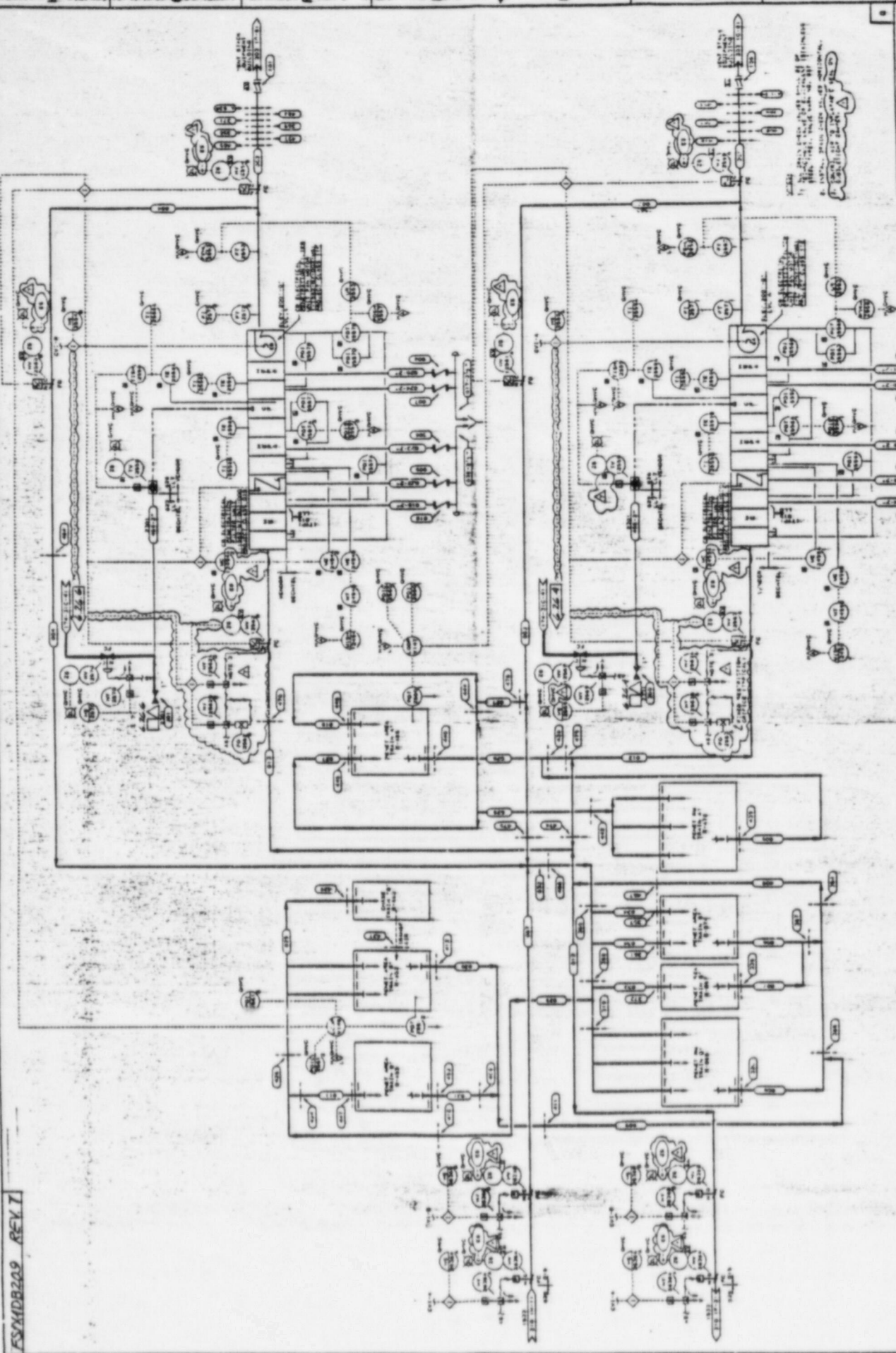


NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	11/15/68	J. J. ...	...
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FSF-KC-01

5/15/68  
 J. J. ...

FSM4DB209 REV I

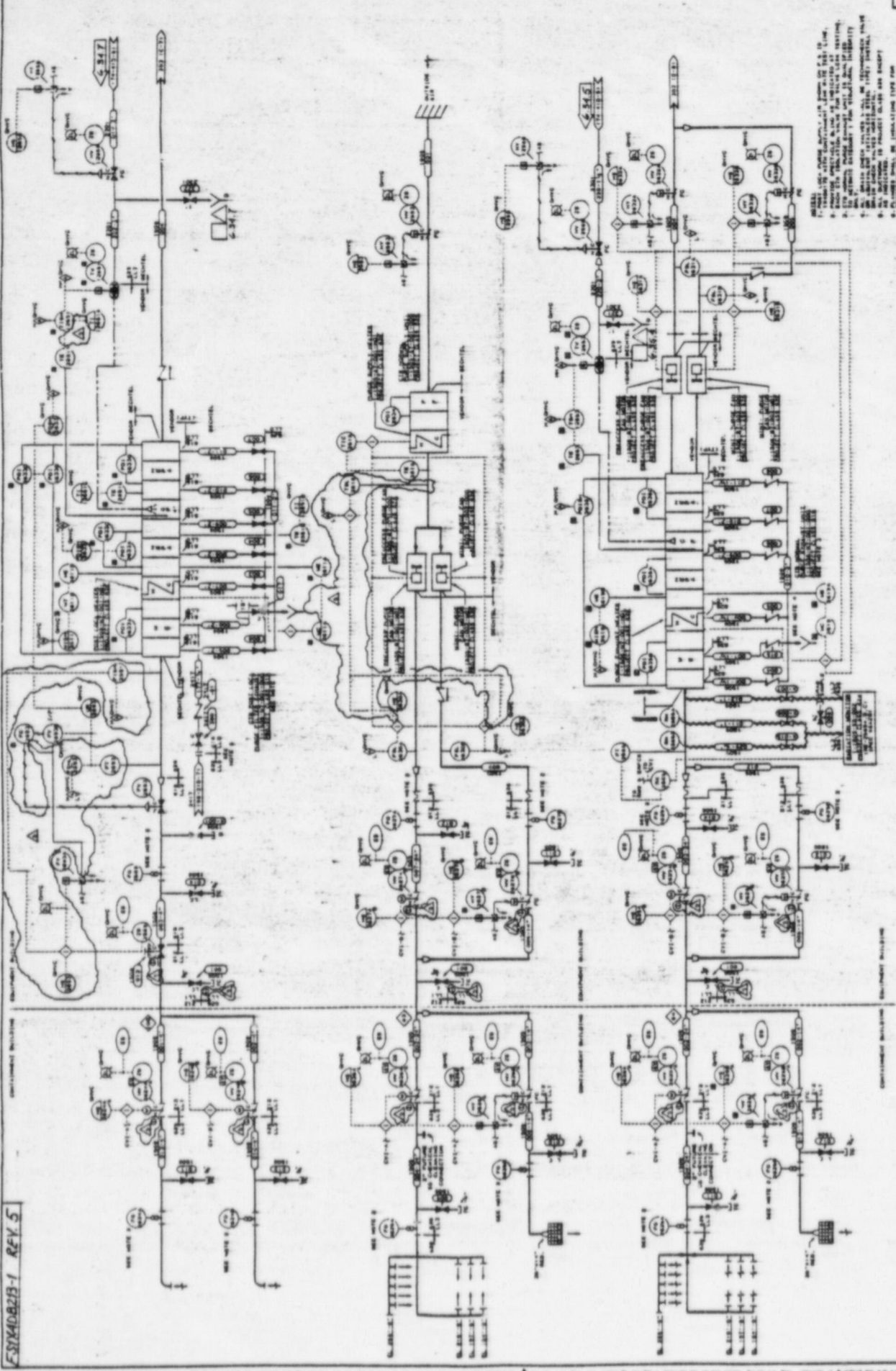


**BECHTEL**  
 GEORGIA POWER COMPANY  
 WASH. W. WOODS NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH  
 DRAWING NO. FSM4DB209  
 SHEET NO. 1

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	11/11/68	J. W. WOODS	
2	REVISION			
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PROJECT NO. 44-100000-1000  
 SHEET NO. 1 OF 1  
 DATE: 11/11/68

Z-SYND2B-1 REV 5



**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. VOGEL NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH  
 F-91-KC-01

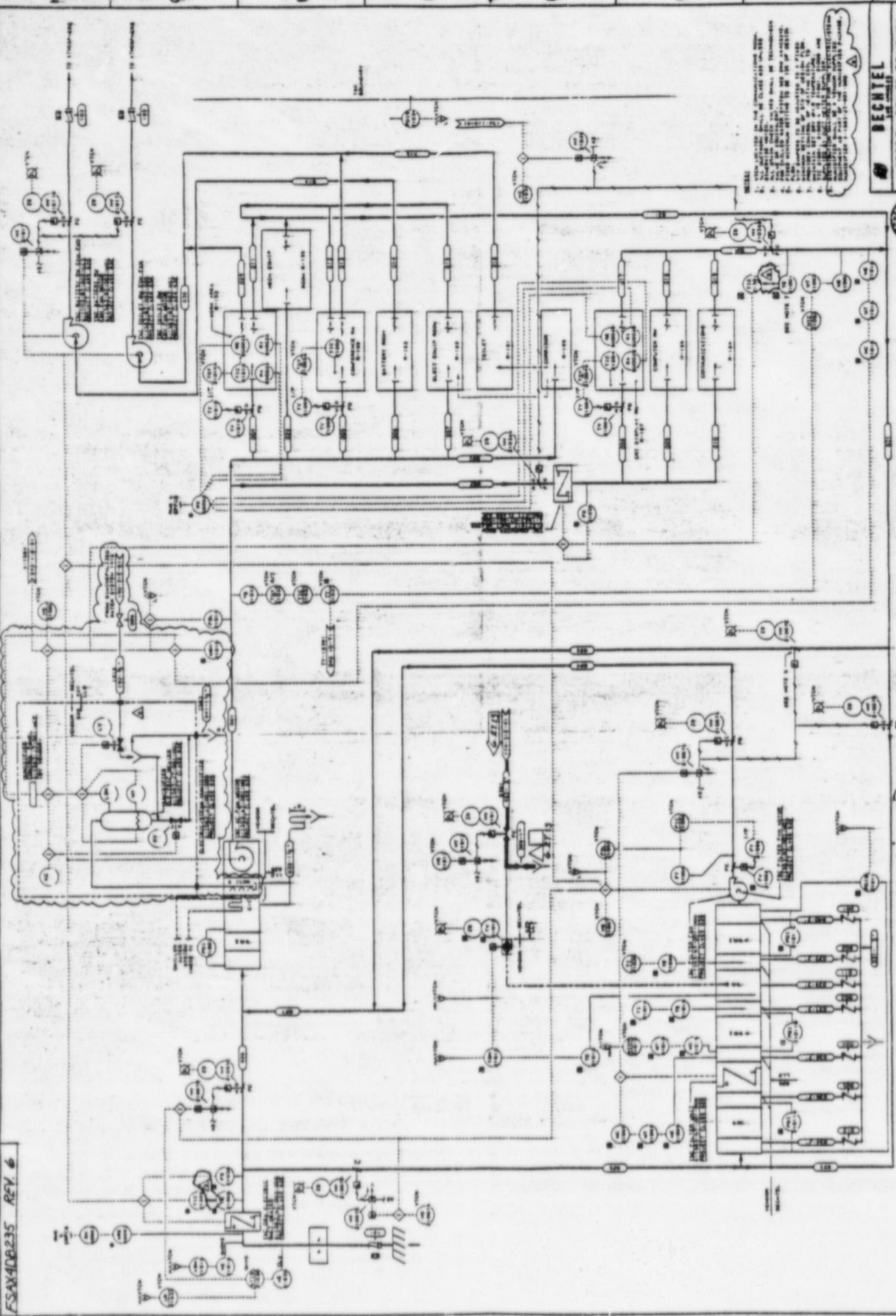
- 1. INSTALLATION OF WATER SYSTEM FLUSH
- 2. WATER SYSTEM FLUSH
- 3. WATER SYSTEM FLUSH
- 4. WATER SYSTEM FLUSH
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FSAX400235 REV. 6



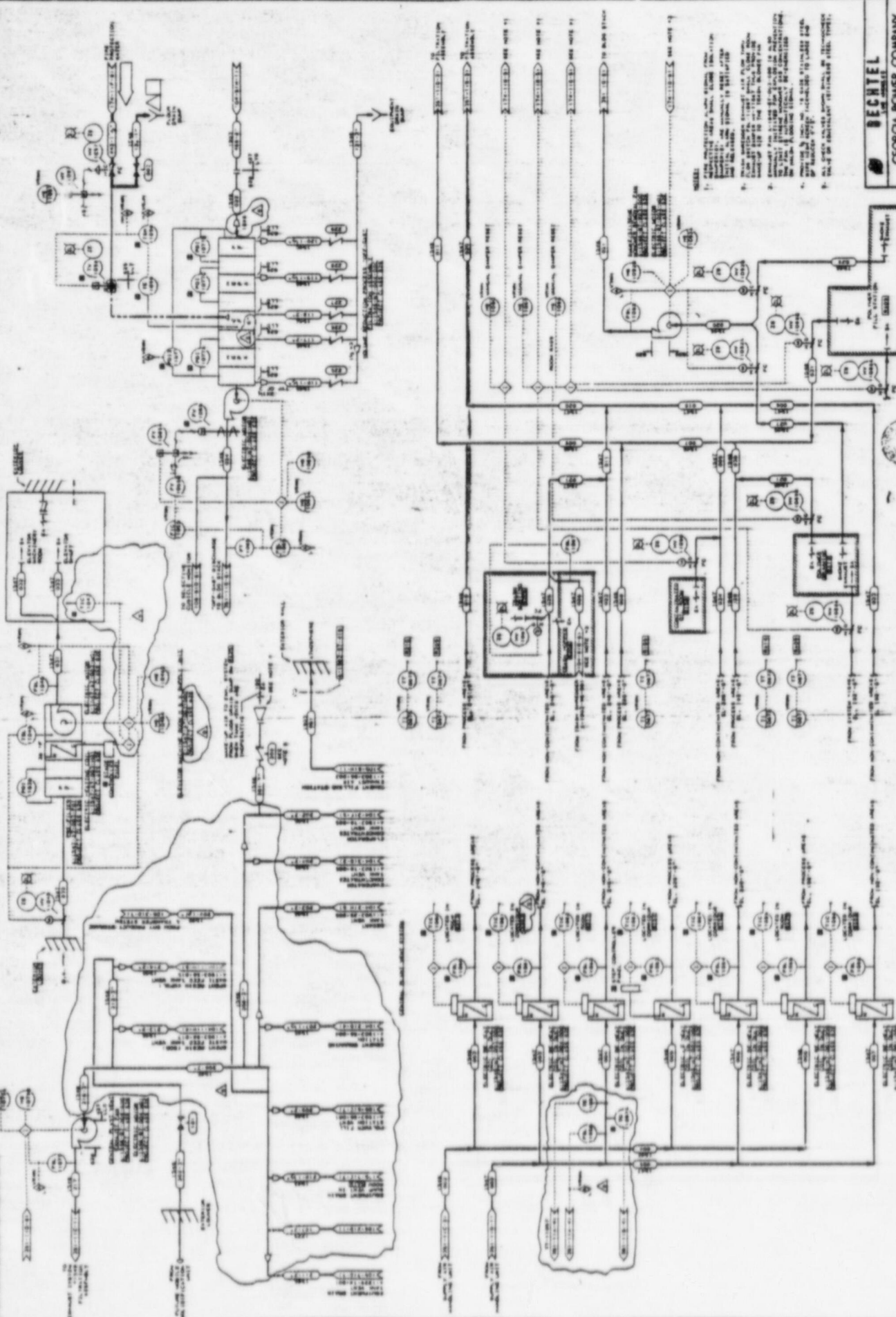
- NOTES:
1. THIS SCHEMATIC IS THE COMMUNICATIONS UNIT.
  2. ALL ELECTRICAL SYMBOLS ARE SHOWN AS REPRESENTED.
  3. ALL ELECTRICAL SYMBOLS ARE SHOWN AS REPRESENTED.
  4. ALL ELECTRICAL SYMBOLS ARE SHOWN AS REPRESENTED.
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  10. ALL ELECTRICAL SYMBOLS ARE SHOWN AS REPRESENTED.

**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVIN W. YOSTLE NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH  
 SHEET NO. FS1-1KC-01  
 DATE: 10/11/68

NO.	DESCRIPTION	DATE	BY	CHKD.
1	ISSUED FOR CONSTRUCTION	10/11/68		
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FSAX40351-4 REV. 6



- NOTES:
1. THIS SYSTEM IS A PART OF THE FIRE PROTECTION SYSTEM FOR THE PLANT.
  2. THE SYSTEM IS DESIGNED TO PROVIDE WATER FOR FIRE PROTECTION PURPOSES.
  3. THE SYSTEM IS DESIGNED TO PROVIDE WATER FOR FIRE PROTECTION PURPOSES.
  4. THE SYSTEM IS DESIGNED TO PROVIDE WATER FOR FIRE PROTECTION PURPOSES.
  5. THE SYSTEM IS DESIGNED TO PROVIDE WATER FOR FIRE PROTECTION PURPOSES.

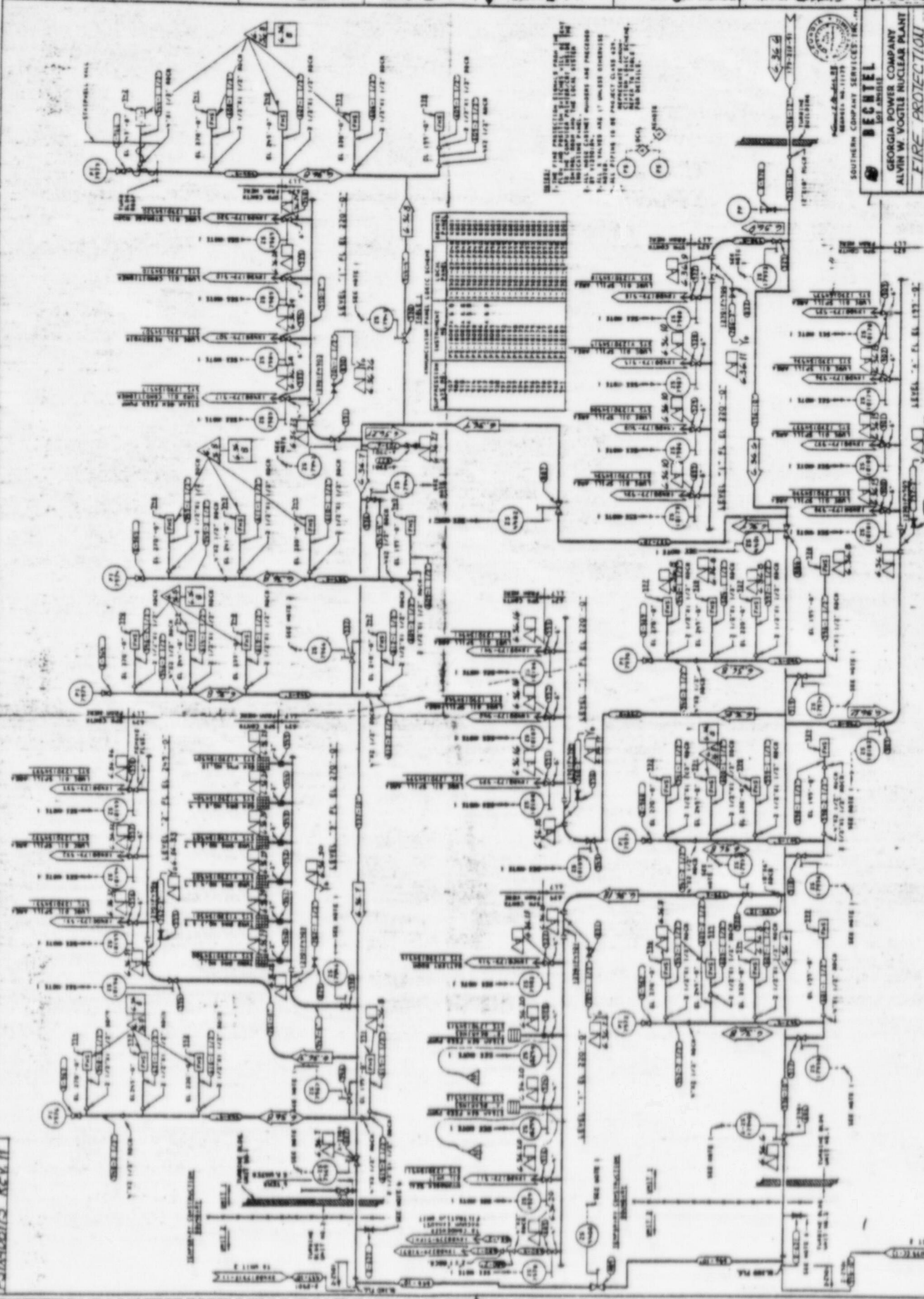
**BECHTEL**  
 GEORGIA POWER COMPANY  
 AVON W. VOGEL NUCLEAR PLANT  
 FIRE PROTECTION  
 WATER SYSTEM FLUSH

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ESX408173 REV. II



NOTE: THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED PIPING AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AUTHORITIES. ALL PIPING TO BE INSTALLED SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NFPA 20, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

**BECHTEL**  
SOUTHERN COMPANY SERVICES, INC.  
GEORGIA POWER COMPANY  
ALVIN W. VOGLTLE NUCLEAR PLANT  
FIRE PROTECTION  
WATER SYSTEM FLUSH  
FSI-KC-01

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	11/15/73	J. W. HARRIS	J. W. HARRIS
2	REVISED TO SHOW CHANGES	11/22/73	J. W. HARRIS	J. W. HARRIS
3	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
4	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
5	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
6	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
7	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
8	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
9	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS
10	REVISED TO SHOW CHANGES	12/10/73	J. W. HARRIS	J. W. HARRIS