



**NOTES**

1. VOLUME FLOW NEW FLOW TO VOLUME CONTROL TANK
2. SPECIAL VALVE FUNCTIONS AS BOTH ISOLATION & RELIEF VALVE
3. DISPOSITION SEE
4. ELECTROHYDRAULIC LOGIC INTERLOCKED TO VOLUME CONTROL TANK
5. ASSEMBLY BY CLASSIFICATION CHART
6. CLASS VALVES ARE NORMALLY INSTALLED WITH FLOW FROM RIGHT
7. SPECIAL SPRING LOADED CHECK VALVE
8. POWER NUMBER OF 23 INDICATES THE OPERATIONAL SET POINTS
9. ACCORDING TO THE STORAGE SIDE IS INSTALLED AT TOP OF PIPE AND
10. CONNECTIONS ARE INSTALLED CONNECTING BY AIR BLIND
11. PLATE HEAT EXCHANGERS ARE PLACED
12. LOGGING
13. SUPPLIED WITH ONE COUPLER ELEMENT
14. THIS SYMBOL IS USED TO INDICATE THE POSITION OF THE VALVE
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**SYMBOLS**

SYMBOL	TITLE
11. 11448-FH-8700, SK.1	FLOW & VOLUME CONTROL SYSTEM
12. 11448-FH-8700, SK.2	FLOW & VOLUME CONTROL SYSTEM
13. 11448-FH-8700, SK.3	FLOW & VOLUME CONTROL SYSTEM
14. 11448-FH-8700, SK.4	FLOW & VOLUME CONTROL SYSTEM
15. 11448-FH-8700, SK.5	FLOW & VOLUME CONTROL SYSTEM
16. 11448-FH-8700, SK.6	FLOW & VOLUME CONTROL SYSTEM
17. 11448-FH-8700, SK.7	FLOW & VOLUME CONTROL SYSTEM
18. 11448-FH-8700, SK.8	FLOW & VOLUME CONTROL SYSTEM
19. 11448-FH-8700, SK.9	FLOW & VOLUME CONTROL SYSTEM
20. 11448-FH-8700, SK.10	FLOW & VOLUME CONTROL SYSTEM
21. 11448-FH-8700, SK.11	FLOW & VOLUME CONTROL SYSTEM
22. 11448-FH-8700, SK.12	FLOW & VOLUME CONTROL SYSTEM
23. 11448-FH-8700, SK.13	FLOW & VOLUME CONTROL SYSTEM
24. 11448-FH-8700, SK.14	FLOW & VOLUME CONTROL SYSTEM
25. 11448-FH-8700, SK.15	FLOW & VOLUME CONTROL SYSTEM
26. 11448-FH-8700, SK.16	FLOW & VOLUME CONTROL SYSTEM
27. 11448-FH-8700, SK.17	FLOW & VOLUME CONTROL SYSTEM
28. 11448-FH-8700, SK.18	FLOW & VOLUME CONTROL SYSTEM
29. 11448-FH-8700, SK.19	FLOW & VOLUME CONTROL SYSTEM
30. 11448-FH-8700, SK.20	FLOW & VOLUME CONTROL SYSTEM

**BYPRODUCT DRAWINGS**

1. 11448-FH-8700, SK.1
2. 11448-FH-8700, SK.2
3. 11448-FH-8700, SK.3

**BYPRODUCT NOTES**

(A) THE BORIC ACID TANKS, BORIC ACID TRANSFER PUMPS AND ASSOCIATED PIPING UP TO THE SAFETY INJECTION CHARGING PUMPS HAVE BEEN CLASSIFIED IN CLASS 2 IN ACCORDANCE WITH REGULATORY GUIDE 1.5, ARTICLE C.3.3 AND TECHNICAL SPECIFICATION 3.2.5.4 AND 3.2.5.5.

(B) PORTIONS OF THE CHEMICAL AND VOLUME CONTROL SYSTEM WHICH ARE CONNECTED TO THE BORIC ACID TANKS ARE NOT CLASSIFIED FOR IN CLASS 2 BECAUSE THEY ENTER ABOVE THE REQUIRED MINIMUM TANK LEVEL.

(C) THE DESIGN BASIS AND DESCRIPTION FOR THE CHEMICAL AND VOLUME CONTROL SYSTEM ARE PROVIDED IN USNRC SECTION 1.5 AND 1.6, RESPECTIVELY.

FOR IN CLASSIFICATION BOUNDARY DRAWING LEGEND AND SYMBOLS, SEE 11448-FH-8700.

**CAUTIONS**

THE INFORMATION ON THIS BYPRODUCT DRAWING IS FOR REFERENCE ONLY. THE BACKGROUND INFORMATION IS NOT CONTROLLED AND MAY NOT REFLECT THE ACTUAL PLANT OPERATIONS. REFER TO THE LATEST ASSEMBLY DRAWING FOR THE CURRENT INFORMATION.

**REVISION DESCRIPTION**

NO.	DATE	DESCRIPTION
1	07-20-88	SCALE NONE

**VIRGINIA POWER**  
**NORTH CAROLINA POWER**  
 ENGINEERING AND CONSTRUCTION  
 RICHMOND, VIRGINIA

**ISI CLASSIFICATION BOUNDARY DRAWING**  
**CHEMICAL & VOLUME CONTROL SYSTEM**  
**SURRY POWER STATION UNIT 1**  
**VIRGINIA POWER**

DESIGN	DESIGN	DESIGN
DRW. SERVIC.	DISP. ENGR.	DRWING NO.
CHD INC.	LEAD ENGR. P.J.T.	11448-FH-8700
DATE: 07-20-88	SCALE: NONE	UNLESS OTHERWISE NOTED

11448-FH-8700, SK.1

PDR RIDS

8812010321

