



VALVE NO.	MATERIAL	VALVE NO.	MATERIAL	VALVE NO.	MATERIAL
PX-N004	NV-12	G51-F002	USE 2051-F002 PURCHASED FROM PACIFIC VALVES ON P.O. PEH-2-3203. SPEC. NO. SS-2102-182.	G51-F019	USE UNIT-2 GV-736 VALVES TOTAL 10 VALVES RESERVED FOR VENTS & DRAINS.
PX-N005	USE 2-GV-737 1-GV-878 2-GV-877	G51-F008	USE 2051-F100 PURCHASED FROM CS&NE ON P.O. P504-45	G51-F020	UNIT-1 N-1301
QPS-N001	USE 1-GV-737 2-GV-877	G51-F011	USE THE FOLLOWING TWO (2) VALVES ORDERED FROM WESTINGHOUSE (COPEL-VULCAN) FOR A.W. NUCLEAR PLANT-UNIT 2 G.P.C. P.O. PAW 2-2 SPEC. NO. X0406. TAG NO. QV-780A SHALL BE RETAGGED Q051-F011 AND TAG NO. 2W-780B SHALL BE RETAGGED Q051-F012	G51-F014	G51-F015
PS-N002	USE 1-GV-737 2-GV-877	G51-F012	USE THE FOLLOWING TWO (2) VALVES ORDERED FROM FISHER ON P.O. PE H-270. C.O. NO.9 SPEC. NO. SS-2102-203. Q051-F011 SHALL BE RETAGGED Q051-F013 AND Q051-F012 SHALL BE RETAGGED Q051-F021.	G51-F016	USE 2051-F020 PURCHASED FROM PACIFIC VALVES ON P.O. PEH2-3203. SPEC. NO. SS-2102-182
PI-R001	USE 1-GV-737 2-GV-877	G51-F013	USE VALVE ORDERED FROM ROCKWELL ON ENGINEERING REQUISITION 63229.	G51-F020	USE UNIT 2 GV-728 VALVES FOR VENTS
AIR SHUT-OFF VALVES FOR F011-F012-F013 AND F021	USE 4-GV-874	G51-F021			
INSTR. AIR HEADER VALVES	USE 4-GV-211				
G51-F001	USE 2051-F011 PURCHASED FROM PACIFIC VALVES ON P.O. PEH-2-3203. SPEC. NO. SS-2102-182				
G51-F006	USE GV-120 VALVE				
G51-F007	USE GV-652 VALVE				

- NOTES:**
- PIPING FROM TORUS DRAIN CONNECTION X218A TO AND INCLUDING VALVE F002 SHALL BE ASME SECTION III, CL2, SEISMIC CATEGORY 1. VALVES F001 AND F002 SHALL BE LOCATED AS CLOSE TO THE TORUS CONNECTION X218A AS POSSIBLE.
  - THE PIPE SPOOL BOUNDED BY SPECTACLE FLANGES D001 AND D002 SHALL BE REMOVED DURING PLANT OPERATION AND STORED IN THE VICINITY OF PUMP C001. SPOOL LENGTH SHALL BE MINIMIZED.
  - THE FOLLOWING MODES APPLY TO THIS SYSTEM:
    - MODE 1 - PUMP C001 DISCHARGING TO THE CONDENSATE STORAGE TANK P11-A001, VIA CONDENSATE POLISHING DEMINERALIZERS.
    - MODE 2 - PUMP C001 DISCHARGING TO THE CONDENSATE HOT-WELL N61-B001B, VIA THE CONDENSATE POLISHING DEMINERALIZERS.
    - MODE 3 - PUMP C001 DISCHARGING TO RADWASTE WASTE SURGE TANK G11-A005.
    - MODE 4 - SPOOL PIECE OUT, PUMP C001 DRAINED AND ISOLATED, AND REACTOR IN NORMAL OPERATION.
  - ALL VALVES, PUMPS AND ACCESSORY EQUIPMENT, THIS P.&I.D. PRECEDED BY MPL G51, UNLESS OTHERWISE NOTED.
  - ALL VALVES ARE SHOWN IN THE NORMAL PLANT OPERATING POSITION. F013 & F021 ARE USED FOR TORUS MAKE-UP MANUAL CONTROL PER PLANT PROCEDURE.
  - P.C.I.S. SIGNAL CONSISTS OF ONE (1) OR MORE OF THE FOLLOWING: HIGH DRYWELL PRESSURE, REACTOR LEVEL 3 TRIP, REACTOR BUILDING HIGH RADIATION, OR REFUELING FLOOR HIGH RADIATION.

- REFERENCES:**
- | REFERENCE   | MPL. NO. | DWG. NO. |
|---|----------|----------|
| 1. TURBINE BLDG. CONDENSATE & F.W. SYSTEM P.&I.D. SHEET 1 | N21-1010 | H-11019  |
| 2. CLOSED COOLING WATER SYS. P.&I.D.                      | P42-1010 | H-16009  |
| 3. PRIMARY CONTAINMENT PURGE & INERTING SYSTEM P.&I.D.    | T48-1020 | H-16024  |
| 4. DELETED  |          |          |
| 5. CORE SPRAY SYSTEM P.&I.D.                              |          | H-16331  |
| 6. DIGITAL INPUT SIGNALS TO THE SH. 6 OF 15               | X75-1010 | H-16408  |
| 7. REACTOR & RADWASTE BLDG. INST. AIR SYS                 | P52-F607 | H-16239  |

	MODE 1			MODE 2			MODE 3			MODE 4		
	PRESS. PSIG.	TEMP. °F	FLOW GPM	PRESS. PSIG.	TEMP. °F	FLOW GPM	PRESS. PSIG.	TEMP. °F	FLOW GPM	PRESS. PSIG.	TEMP. °F	FLOW GPM
1	5.5	95	1200	5.5	95	1200	5.5	95	650	-	-	0
2	4.4	95	1200	4.4	95	1200	4.8	95	650	0	-	-
3	69.5	95	1200	69.5	95	1200	73.8	95	650	0	-	-
4	-	-	0	-	-	0	73.5	95	650	0	-	-
5	-	-	0	-	-	0	73.5	95	650	-	-	0
6	69.5	95	1200	69.5	95	1200	-	-	0	-	-	0
7	-	-	0	-	-	0	-	-	0	34	95	0
8	-	-	0	-	-	0	-	-	0	0	0	0
9	-	-	0	-	-	0	-	-	0	6.07	95	18
10	-	-	0	-	-	0	-	-	0	1.86	95	18

**BOUNDARY DIAGRAM NO.: 1T23-B01-013**  
**FUNCTION(S) NO.: 1T23-01**  
 PREPARED BY: Ferook Chandiwala  
 DATE: 10/20/98  
 REVIEWED BY: Larry Orr  
 DATE: 12/08/98

**BOUNDARY DIAGRAM NO.: 1E11-B01-12**  
**FUNCTION(S) NO.: 1E21-01**  
 PREPARED BY: Willie Jennings  
 DATE: 02/17/98  
 REVIEWED BY: William P. Evans  
 DATE: 05/07/98

Revisions A | Date: 10-20-99  
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 (LVN-F030)  
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**SOUTHERN COMPANY**

**LICENSE RENEWAL SCREENING FOR INFORMATION ONLY**

EDWIN I. HATCH NUCLEAR PLANT UNIT No. 1  
 TORUS DRAINAGE & PURIFICATION SYSTEM  
 P.&I.D. AND P.F.D.

DATE	BY	DESCRIPTION
10-20-98	W. Jennings	Prepared
12-08-98	L. Orr	Reviewed

REV.	DATE	BY	DESCRIPTION
1	10-20-98	W. Jennings	Initial Issue
2	12-08-98	L. Orr	Revision