



- NOTES**
1. FOR ALL INITIATION SIGNALS SEE G.E. NUCLEAR BOILER SYSTEM B22-1040, DOCUMENT NO. 761E445, TABLE III 'Y'
  2. THIS EQUIPMENT IS NORMALLY CONTROLLED FROM THE MAIN CONTROL ROOM. IF THE MAIN CONTROL ROOM MUST BE VACATED, THIS CONTROL POINT MAY BE ISOLATED AND CONTROL TRANSFERRED TO THE REMOTE SHUTDOWN PANEL C61-POOI
  3. (DELETED)
  4. ALL PIPING SYSTEMS SUPPLIED BY THE PREFIX 'PT' SHALL BE SUPPLIED AND INSTALLED BY CONTRACT #220
  5. (DELETED)
  6. (DELETED)
  7. PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS Dwg SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON THE FLOW DIAGRAM):
    - a. PROCESS (FEEDWATER OR STEADY AND INSTRUMENT PIPING WITHIN THE PRIMARY CONTAINMENT AND OUT THROUGH THE OUTER-MOST ISOLATION VALVES, EXCEPT SAFETY/RELIEF VALVE/DISCHARGE.
    - b. SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP A
    - c. MAIN STEAM PROCESS PIPING BEYOND THE OUTERMOST ISOLATION VALVES, EXCEPT BRANCH LINES (CRADN) BEYOND THE FIRST VALVE AND SAFETY/RELIEF VALVE DISCHARGE AS NOTED.
    - d. SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP B
    - e. FEEDWATER PROCESS PIPING BEYOND THE OUTERMOST ISOLATION VALVES, STEAM PROCESS PIPING (CRADN) NOT INCLUDED UNDER NOTE 7a., AND VENT, DRAIN AND LEAK-OFF PIPING BEYOND THE LAST VALVE.
    - f. SEISMIC CATEGORY II QUALITY CLASS II CODE GROUP D
    - g. INSTRUMENT PIPING BEYOND THE OUTER-MOST ISOLATION VALVES, AND INSTRUMENT PIPING CONNECTED TO THE PRIMARY CONTAINMENT. AIR ACCUMULATORS AND ASSOCIATED PIPING OUT THROUGH THE SUPPLY CHECK VALVE, VENT, DRAIN AND LEAK-OFF PIPING 3/4" OR SMALLER OUT THROUGH THE LAST VALVE.
    - h. SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP B
    - i. OTHER AIR PIPING, DOWNCOMERS AND SAFETY/RELIEF VALVE DISCHARGE AS NOTED.
    - j. SEISMIC CATEGORY I QUALITY CLASS I CODE GROUP C
    - k. CODE STAMP NOT REQUIRED FOR DOWNCOMERS & LINE 1 1/2" MS(9)-4 LEAVING REACTOR BLD'G
    - l. SEISMIC CATEGORY II QUALITY CLASS II CODE GROUP D
    - m. MSRV QUENCHERS AND DOWNCOMERS AS NOTED SHALL BE CLASSIFIED AS FOLLOWS:
      - SEISMIC CATEGORY I QUALITY CLASS I
      - CODE GROUP: B FOR MATERIAL FABRICATION AND INSTALLATION ONLY. CODE STAMP NOT REQUIRED.
    - 8. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
    - 9. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS: PI-ETC-X (PENETRATION NO).
    - 10. CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS: PI-V-X (PENETRATION NO).
    - 11. THESE INSTRUMENTS ARE LOCATED ON REMOTE SHUTDOWN PANEL.
    - 12. ALL INSTRUMENTATION ON THIS DRAWING TO BE IDENTIFIED BY PREFIX 'MS' UNLESS OTHERWISE NOTED.
    - 13. CONTINUED ON LEFT.

**LEGEND**

1. ALL VALVES SUFFICED WITH (A) EQUAL A 3/4" VENT VALVE.

2. ALL VALVES SUFFICED WITH (D) EQUAL A 3/4" DRAIN VALVE.

**NOTES (CONT'D)**

13. ALL INSTRUMENT LINES ARE DESIGNATED BY CODE AND LINE NUMBER.

A. EXAMPLE: LINES ORIGINATING OUTSIDE CONTAINMENT.  
 1/2" PI(1)-ST - (H22-PO2)-A6

CODE DESIGNATION LINE NUMBER

B. EXAMPLE: LINES ORIGINATING INSIDE CONTAINMENT.  
 1/2" PI(1)-4S - X106

CODE DESIGNATION LINE NUMBER

C. EXAMPLE: CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED AS FOLLOWS, WITH LINE NUMBERS NOT SHOWN.  
 1/2" PI(1)-ST - X106 - (H22-PO2)-A6

CODE DESIGNATION LINE NUMBER

14. ASME CODE CASE N-241 MAY BE APPLIED TO 10" AND 12" MS(9)-2 BELOW ELEVATION 466.034'

15. CODE BREAK DEFINITIONS FOR THERMOWELLS ARE SHOWN ON M610 'INSTALLATION OF THERMOWELLS & SAMPLE PROBES'

**PRG APERTURE CARD**

FSAR FIG. NO. 3.2-2

**BURNS AND ROE, INC.**  
 ENGINEERS AND ARCHITECTS  
 ORADELL, N. J. HEMPSTEAD, N. Y. LOS ANGELES, CALIF.

**FLOW DIAGRAM**  
 NUCLEAR BOILER-MAIN STEAM SYSTEM  
 REACTOR BUILDING

**WASHINGTON PUBLIC POWER SUPPLY SYSTEM**  
 HANFORD No. 2

REV. NO.	REVISION	DATE	DRWN	CHKD	APPROVED	REV. NO.	REVISION	DATE	DRWN	CHKD	APPROVED
38	FOR PREVIOUS REVISIONS, SEE PREVIOUS ISSUE. S.U. SYSTEM IS TRANSFERRED TO SUPPLY SYSTEM PER W.D. 4300, MEMO DWR-83-709	1/14/83	DEB	AM	[Signature]	39	S.U. SYSTEM IS TRANSFERRED TO SUPPLY SYSTEM PER W.D. 4300, MEMO DWR-83-1426	2/23/83	DEB	AM	[Signature]
40	PER TASK 3040: PED 215-M-P759 (G-3-B-9) 215-D-X478 (B-12) 218-E-B476 (E-15) 220-F-124 (F-14, F-15, F-16)	3/24/83	ENR	AM	[Signature]						

DESIGN CONTROL FOR START-UP SYSTEM(S)	RELEASED FOR	BY	DATE
7.15 TRANSFERRED TO WPSS ALL FUTURE CHANGES TO THIS (THESE) SYSTEM(S) SHALL BE INITIATED AND APPROVED BY THE SUPPLY SYSTEM. ALL REVISIONS TO THIS DRAWING REQUIRE APPROVAL OF THE SUPPLY SYSTEM AND THE ARCHITECT/ENGINEER.			
	STATUS		
	PRELIMINARY INFO		
	BIDDING ONLY		
	ADDITIONAL NO.		
	AMENDMENT NO.		
	CONSTRUCTION		
	APPLY TO SPEC NO.		