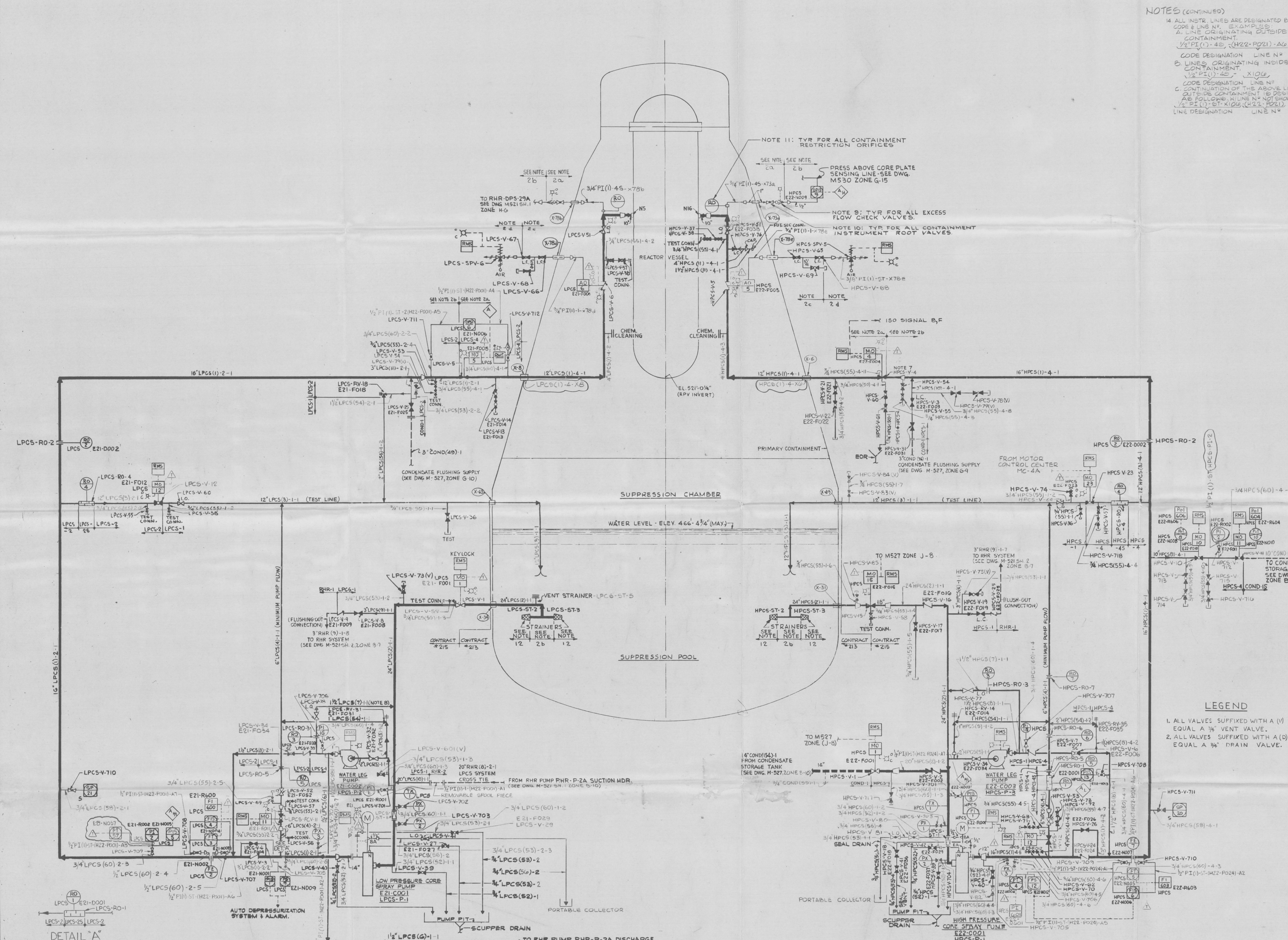
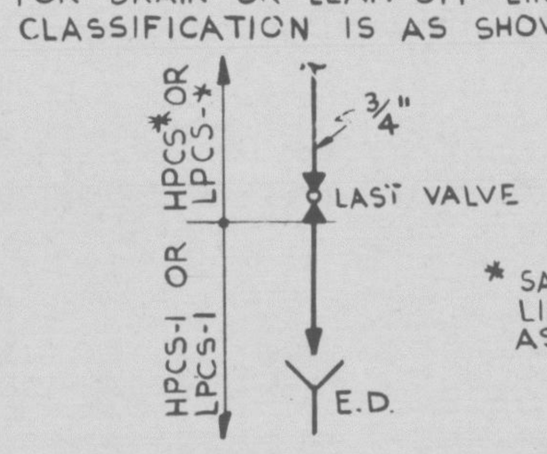


NOTES (CONTINUED)

14. ALL INSTR. LINES ARE DESIGNATED BY CODE & LINE Nº. EXAMPLES:
    A. LINE ORIGINATING OUTSIDE CONTAINMENT.
       ½" PI(1)-45, -(H22-P021)-A6,
       CODE DESIGNATION — LINE Nº
    B. LINES ORIGINATING INSIDE CONTAINMENT.
       ½" PI(1)-45, - X106,
       CODE DESIGNATION — LINE Nº
    C. CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED AS FOLLOWS, W/LINE Nº NOT SHOWN.
       ½" PI(1)-ST-X106, -(H22-P021),
       LINE DESIGNATION — LINE Nº

NOTES:

1. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE ¾" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
2. PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS EXCEPT AS STATED IN NOTES 12 & 13: (BREAK POINTS ARE INDICATED ON FLOW DIAGRAM)
   a. PIPING AND VALVES OUT THROUGH OUTERMOST REACTOR ISOLATION VALVES
      SEISMIC CATEGORY I
      QUALITY CLASS I
      CODE GROUP A
   b. PIPING AND VALES BEYOND OUTERMOST REACTOR ISOLATION VALVES PLUS ALL INSTRUMENT LINES EXCEPT THE PUMP SEAL DRAIN LINES DESIGNATED AS 3/4" LPCS(56)-2 AND 3/4" HPCS(56)-4
      SEISMIC CATEGORY I
      QUALITY CLASS I
      CODE GROUP B
   C. INSTRUMENTATION AIR LINES AND LEAK-OFF PIPING INSIDE CONTAINMENT ISOLATION VALVE:
      SEISMIC CATEGORY I
      QUALITY CLASS I
      CODE GROUP B
   d. INSTRUMENTATION AIR LINES AND LEAK-OFF PIPING OUTSIDE CONTAINMENT ISOLATION VALVE: AND THE PUMP SEAL DRAIN LINES DESIGNATED 3/4" LPCS(56)-2 AND 3/4" HPCS(56)-4
      SEISMIC CATEGORY II ⊕ } Ø
      QUALITY CLASS II } Ø
      CODE GROUP D } Ø
   ⊕ SEE SECTION 15Q, CONTRACT 215
   Ø EXCEPT AS NOTED ON M619 INSTR CONN DIAG.
3. FOR DRAIN OR LEAK-OFF LINES, THE PIPING CLASSIFICATION IS AS SHOWN ON DETAIL BELOW



* SAME AS FOR MAIN LINE OR VALVE, OR AS NOTED.

4.
5.
6. ALL PIPING SYSTEMS IDENTIFIED BY THE PREFIX "PI" SHALL BE SUPPLIED AND INSTALLED BY CONTRACT # 220
7. (DELETED)
8. ALLOW ADEQUATE PIPING SURFACE AREA FOR COOLING OF PUMP LPCS-P-2.
9. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS
   PI-EFC-X(PENETRATION NO.)
10. CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS:
    PI-V-X (PENETRATION NO.) EXCEPT WHERE NOTED ON FACE OF DRAWING
11. CONTAINMENT RESTRICTION ORIFICES SHALL BE TAGGED AS FOLLOWS:
    PI-RO-X(PENETRATION NO.)
12. PIPING, VALVES & ASSOCIATED COMPONENTS ON THIS DWG. SHALL BE CLASSIFIED AS FOLLOWS: (BREAK POINTS ARE INDICATED ON THIS DIAGRAM)
    SEISMIC CATEGORY I
    QUALITY CLASS I
    CODE GROUP D *
    * STRAINERS SHALL HAVE ALL FABRICATION & MATERIALS TO APPLICABLE REQUIREMENTS OF A.S.M.E III-2 EXCEPT CODE STAMP IS NOT REQUIRED & PERFORATED PL MAY BE ASTM MATERIAL AND COMPLIANCE WITH NA-3700 IS NOT MANDATORY FURNISHED AND INSTALLED BY CONTR. 213A
13. ALL PIPING DOWNSTREAM OF THE LAST ISOLATION VALVE AND OPEN TO THE ATMOSPHERE WITH THE SUBSYSTEM DESIGNATION "SYSTEM" (50) THRU (59) SHALL BE CLASSIFIED AS CODE GROUP D WITH QUALITY CLASS & SEISMIC CATEGORY PROVIDED BY THE APPLICABLE NOTES ON THIS DRAWING.
    (CONTINUED ZONE K-4)

LEGEND

1. ALL VALVES SUFFIXED WITH A (V) EQUAL A ¾" VENT VALVE.
2. ALL VALVES SUFFIXED WITH A (D) EQUAL A ¾" DRAIN VALVE.

DESIGN CONTROL FOR START-UP SYSTEM(S) 8,7
TRANSFERRED TO WPPSS. 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

FSAR FIG. NO. 3.2-7

REV. NO.	REVISION	DATE	DRWN	CHKD	APPROVED ENG'R	APPROVED DATE
36	PER TASK 3040: PED 218-E-B110 (F-1-2, B-4, B-5, A-B-5, F-4-5, D-7, G-7, G-H-8, H-9,-10, G-11, F-14, E-11, B-12, B-13, B-C-13)	7/11/83	DRJ	LWB GHM		7/15/83
37	S.U. SYSTEM 7 TRANSFERRED TO SUPPLY SYSTEM PER W.O. 4300, MEMO EMR-83-989	7/20/83	DEB	GHM		7/25/83
38	PER TASK 3040 PED 218-E-B476 (B-14-15), 220-I-1145 (E-3, F-3), 215-M-X033 (G-7-8, G-10)	9/12/83	DRJ	LWB GHM		9/28/83
33 CONT	215-M-G315 (B-7, B-11, B-12, H-1-2, J-1-2) 220-I-0966 (C-6)	3/10/83	REP	GHM		
34	PER TASK 3040: PED-215-M-H479 (G-10-11, C-D-5-6, G-7, F-6-7, E-7), 215-M-A422 (C-13-14), 215-M-H599 (H-8), 215-M-K339 (E-2-3), 215-M-M466 (C-4)	4-18-83	MH	GHM		
35	S.U. SYSTEM 8 TRANSFERRED TO SUPPLY SYSTEM PER W.O. 4300, MEMO EMR-83-848	3/24/83	DRJ	GHM		
32	FOR PREVIOUS REV. SEE PREVIOUS ISSUE. PER TASK 3040 PED 215-M-E094 (C-12-13), 220-I-0907 (B-14), 220-I-0950 (B-4-5, B-15)	11/17/82	DRJ	LWB GHM		12/10/82
33	PER TASK 3040: PED 215-M-G779 (A-B-14-15, B-C-12-15) 215-M-G481 (F-7, H-8, B-4, B-5, B-6, B-11, B-12, C-11) 215-M-H421 (C-D-4-5)	—	—	—	—	—

RELEASED FOR	BY	DATE
STATUS		
PRELIMINARY INFO.		
BIDDING ONLY		
ADDENDUM NO.		
AMENDMENT NO.		
CONSTRUCTION		
APPLY TO SPEC. NO.		

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

FLOW DIAGRAM
HPCS AND LPCS SYSTEMS
REACTOR BUILDING

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
HANFORD No. 2

ENGINEERING REVIEW	DIVISION NUCL.	ELECT.	STRUCT.	INSTR.
ENG'R				
DATE	1/17/73	1/17/73		1/19/73

APPROVED FOR CONSTRUCTION 3/22/73
CHIEF NUCLEAR ENGINEER
CLIENT APPROVAL 25 MAY 83

SCALE: NONE
DRWN. PAL/AB — CHKD. P. Gabriel
SL/LDE B.S.S — DATE 1-18-72
REVIEWED BY CHIEF DRAFTSMAN 1/18/72

W. O. 2808
DWG. M520 REV 38