NOTES:

1. ALL ITEMS MARKED & ARE FURNISHED WITH ASSOCIATED EQUIPMENT.
2. PIPING, VALVES AND ASSOCIATED COMPONENTS ON THIS DWG SHALL BE CLASSIFIED AS FOLLOWS (BREAK POINTS ARE INDICATED ON FLOW DIAGRAM):
   a. PIPING AND VALVES OF SUBSYSTEM RRC (1), (2) AND (7) AND INSTRUMENT AND PROCESS PIPING AND VALVES AS NOTED:
      SEISMIC CATEGORY I
      QUALITY CLASS 1
      CODE GROUP A
   b. PIPING AND VALVES OF SUBSYSTEM HY(1) AND INSTRUMENT AND PROCESS PIPING AND VALVES AS NOTED:
      SEISMIC CATEGORY I
      QUALITY CLASS 1
      CODE GROUP A
   c. INSTRUMENT AND PROCESS PIPING AND VALVES AS NOTED
      SEISMIC CATEGORY I
      QUALITY CLASS 1
      CODE GROUP A
   d. PUMP SEAL DRAIN LINES AND INSTRUMENT PIPING AS NOTED
      SEISMIC CATEGORY I
      QUALITY CLASS 1
      CODE GROUP A
   ⊕ SEE SECT. 15Q, CONTRACT 215
3. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE ¾" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL PIPING SYSTEMS IDENTIFIED BY THE PREFIX "A" OR "B" SHALL BE SUPPLIED AND INSTALLED BY CONTRACT #220
5. DETAIL SHOWS VALVE STEM LEAK-OFF CONNECTION WITH LEAK DETECTION

NOTES: CONTINUED FROM ZONE (B-2)
12. CODE BREAK DEFINITIONS FOR THERMOWELLS ARE SHOWN ON M610, "INSTALLATION OF THERMOWELLS AND SAMPLE PROBES."
13. INSTRUMENTATION SO NOTED SHALL BE CODE GROUP E.

THE FOLLOWING VALVES ARE PROVIDED WITH THIS ARRANGEMENT.

MAIN VALVE	*LEAK-OFF VALVE SUFFIX	**TE, FO SUFFIX	ZONE	UNIQUE LINE NO.
RRC-V-60A	G	B-3	D-10	3/4 RRC(50)-45-5 3/4 RRC(50) 45-7
RRC-V-60B	H	B-4		3/4 RRC(50)-45-6 3/4 RRC(50)-45-8

JET PUMP TRANSMITTER LP SENSING LINE PENETRATION TABLE

UNIQUE LINE NO.	PUMP NO.	INSTR. PENETR. NO.	FT-NO.	FT-NO.
PI(1)-45-X44Ba	MS-JP-1	X-44Ba	MS-FT-34A	—
PI(1)-45-X44Bb	MS-JP-2	X-44Bb	MS-FT-34C	—
PI(1)-45-X44Bc	MS-JP-3	X-44Bc	MS-FT-34E	—
PI(1)-45-X44Bd	MS-JP-4	X-44Bd	MS-FT-34G	—
SEE ZONE J-11	MS-JP-5	X-44Be	MS-FT-34J	MS-FT-33A
PI(1)-45-X44Bf	MS-JP-6	X-44Bf	MS-FT-34L	—
PI(1)-45-X44Bg	MS-JP-7	X-44Bg	MS-FT-34N	—
PI(1)-45-X44Bh	MS-JP-8	X-44Bh	MS-FT-34R	—
PI(1)-45-X44Bj	MS-JP-9	X-44Bj	MS-FT-34T	—
SEE ZONE J-11	MS-JP-10	X-44BK	MS-FT-34V	MS-FT-33C
PI(1)-45-X44Aa	MS-JP-11	X-44Aa	MS-FT-34B	—
PI(1)-45-X44Ab	MS-JP-12	X-44Ab	MS-FT-34D	—
PI(1)-45-X44Ac	MS-JP-13	X-44Ac	MS-FT-34F	—
PI(1)-45-X44Ad	MS-JP-14	X-44Ad	MS-FT-34H	—
SEE ZONE J-7	MS-JP-15	X-44Ae	MS-FT-34K	MS-FT-33B
PI(1)-45-X44Af	MS-JP-16	X-44Af	MS-FT-34M	—
PI(1)-45-X44Ag	MS-JP-17	X-44Ag	MS-FT-34P	—
PI(1)-45-X44Ah	MS-JP-18	X-44Ah	MS-FT-34S	—
PI(1)-45-X44Aj	MS-JP-19	X-44Aj	MS-FT-34U	—
SEE ZONE J-7	MS-JP-20	X-44AK	MS-FT-34W	MS-FT-33D

6. 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 SHUT-DOWN PANEL C61-P001
7. (DELETED)
8. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS: P1-EFC-X(PENETRATION NO.)
9. CONTAINMENT INSTRUMENTATION ROOT VALVE SHALL BE TAGGED AS FOLLOWS: P1-V-X(PENETRATION NO)

Ø EXCEPT AS NOTED ON M618 INSTRUMENT CONNECTION DIAGRAMS

10. ALL INSTRUMENTATION ON THIS DRAWING TO BE IDENTIFIED BY PREFIX "RRC" UNLESS SPECIFICALLY NOTED OTHERWISE.
11. ALL INSTR. LINES ARE DESIGNATED BY CODE & LINE #
    A. EXAMPLE - LINES ORIGINATING INSIDE CONTAINMENT
       ¾" PI(1)-45 — X106
       CODE DESIGNATION — LINE NUMBER
    B. EXAMPLE: CONTINUATION OF THE ABOVE LINE OUTSIDE CONTAINMENT IS DESIGNATED AS FOLLOWS, WITH LINE NUMBERS NOT SHOWN.
       ¾"-PI(1)-ST-X106 — (H22-P021) —
       CODE DESIGNATION — LINE NUMBER
12. 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.

Docket # 50-397
Control # 8311300333
Date 11/10/83
Document: REGULATORY DOCKET FILE

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

FLOW DIAGRAM
NUCLEAR BOILER
RECIRCULATION SYSTEM

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
HANFORD No. 2

ENGINEERING REVIEW			
DIVISION	NUCL.	ELECT.	STRUCT.
ENG'R	JT		
DATE	2/24/83		

APPROVED FOR CONSTRUCTION
[illegible] NUCLEAR ENGINEER

SCALE: NONE
DRW'N. AB CHK'D P.G. Bridge
SUPT. DES. BSS DATE 2/6/73
REVIEWED BY CHIEF DRAFTSMAN
W. O. 2808
DWG. M530 REV 36

CLIENT APPROVAL

REV. NO.	REVISION	DATE	DRWN	CHKD	APPROVED ENGR	APPROVED DATE
35 CONT.	218-E-B110(B-3-4, B-14, C-5, C-13, C-14, D-1-2, D-E-4-5, D-E-6, D-E-11, D-12-13, E-F-4-5, E-F-10, F-11-12, G-4, G-12, H-6, H-12, H-J-13, H-J-15, J-4, K-4, K-13, K-14, G-13)	3/4/83	REP			
36	PER TASK 3040 PED 215-M-P759(G-H-8-9), 215-M-A1522(C-13, B-14-15, B-C-10-11, B-C-6-7, F-5), 215-M-XD128(F-G-11-12)	3/30/83	DRJ			
33	PER TASK 3040: PED-208-1-0516(C-11-12, C-6-7), 215-1-0956(K-5-4) 215-M-H120(E-15 D-E-4-5), 215-D-D359(H-8-9), 220-1-0913(F-13 F-11 G-11 G-12-13)	2-28-83	MH			
34	PER TASK 3040: PED-215-14-H479(F-9-10, C-8, C-11, B-10, B-7, C-6-7), 208-M-0549(D-12, D-6, E-10, E-8)	4-19-83	MH			
35	PER TASK 3040: PED 215-M-P938(K-1-2) 220-M-1091(D-15) 215-1-N973(K-3-4, B-C-11-12, C-6-7)					
31	FOR PREVIOUS REV SEE PREVIOUS ISSUE	10/27/82	DRJ			
32	PER TASK 3040: PEDS-215-M-E426(B-C-6) 215-M-EB172(C-11, C-6-7), 215-M-E111(C-7-8, C-10-11)	12-10-82	MH			

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

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