



NOTES: CONT. FROM ZONE (C/2)

19. SLUDGE LEVEL RWCU-LE-62A AND 62B. RWCU-LS-116A1/2 AND RWCU-LS-116B1/2 ARE SPARED IN PLACE. THEY HAVE BEEN HISTORICALLY UNRELIABLE. SLUDGE LEVEL IS PRESENTLY MORE RELIABLY DETERMINED AND CONTROLLED BY USING THE PPM (SOLID WASTE PROCESSING SYSTEM).

NOTES:

1. ALL ITEMS MARKED \* ARE FURNISHED WITH ASSOCIATED EQUIPMENT.
2. PIPING, VALVES, AND ASSOCIATED COMPONENTS ON THIS DRAWING SHALL BE CLASSIFIED AS FOLLOWS, EXCEPT AS STATED IN NOTE 10: (BREAK POINTS INDICATED ON FLOW DIAGRAM).
- a. PIPING AND VALVES OUT THROUGH THE OUTERMOST ISOLATION VALVES, EXCEPT INSTRUMENT PIPING AS NOTED:  
SEISMIC CATEGORY: I  
QUALITY CLASS: I  
CODE GROUP: A
- b. INSTRUMENT PIPING, AND VALVES CONNECTED TO RCPB, ISOLATED BY A FLOW LIMITING VALVE, AND PROVIDING A SIGNAL TO THE LEAK DETECTION SYSTEM:  
SEISMIC CATEGORY: I  
QUALITY CLASS: I  
CODE GROUP: B
- c. INSTRUMENT PIPING, VALVES, AND FLOW ORIFICE CONNECTED TO THE RWCU SYSTEM THAT PROVIDE A SIGNAL TO THE LEAK DETECTION SYSTEM:  
SEISMIC CATEGORY: I  
QUALITY CLASS: I  
CODE GROUP: C
- d. PIPING, VALVES, AND ASSOCIATED COMPONENTS BEYOND OUTERMOST ISOLATION VALVES (INCLUDING IN THE OF COND, CPR, MMR, AND SA SYSTEMS), EXCEPT AS STATED IN NOTE 2e & 2f:  
SEISMIC CATEGORY: II  
QUALITY CLASS: II  
CODE GROUP: D
- e. PIPING, VALVES, AND ASSOCIATED COMPONENTS IN RADWASTE BUILDING: (AS INDICATED BY BREAKPOINTS)  
SEISMIC CATEGORY: II  
QUALITY CLASS: II  
CODE GROUP: D
- f. PIPING AND ASSOCIATED COMPONENTS BEYOND OUTERMOST ISOLATION VALVE (RWCU-V-4) TO, AND INCLUDING VALVES RWCU-V-5A & 5B: (AS INDICATED BY BREAKPOINTS)  
SEISMIC CATEGORY: II  
QUALITY CLASS: II  
CODE GROUP: C
- \* HANGERS TO BE DESIGNED TO SEISMIC CATEGORY I LOADS.
- \* PRESSURE VESSELS AND ASSOCIATED COMPONENTS WERE INSTALLED AS ASME III CLASS 3. IF REPLACED, ASME SECTION VIII DIVISION 1 NOW APPLIES.
- + SEE NOTE 12, WNP-2 SPECIFICATION, SECTION 15B.1, TABLE 2 NOTES.
- g. PIPING, VALVES, AND ASSOC. COMPONENTS REFERRING TO THIS NOTE:  
SEISMIC CATEGORY: I  
QUALITY CLASS: I  
CODE GROUP: C
- \* HANGERS TO BE DESIGNED TO SEISMIC CATEGORY I LOADS.
- \* EXCEPT AS NOTED ON M619 INSTRUMENT CONNECTION DIAGRAMS. (+SEE NOTE 12, CONTRACT 215, SECTION 15B, TABLE 2 NOTES.)

3. ALL PIPING SYSTEMS IDENTIFIED BY THIS PREFIX "PI" SHALL BE SUPPLIED AND INSTALLED BY CONTRACT 220.
4. (DELETED)
5. ALL INSTRUMENT ROOT VALVES NOT LABELED WILL BE 3/4" GLOBE VALVES UNLESS SPECIFICALLY NOTED OTHERWISE.
6. (DELETED)
7. EXCESS FLOW CHECK VALVES SHALL BE TAGGED AS FOLLOWS:  
PI-EFC-X (PENETRATION NO.)
8. CONTAINMENT INSTRUMENTATION ROOT VALVES SHALL BE TAGGED AS FOLLOWS: PI-V-X (PENETRATION).
9. (DELETED)
10. ALL PIPING DOWN STREAM 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 AND SEISMIC CATEGORY PROVIDED BY THE APPLICABLE NOTES IN THIS DRAWING. EXCEPT WHERE THE APPLICABLE NOTES CALL FOR QUALITY CLASS II+, PIPING SHALL BE QUALITY CLASS II.
11. VALVES RWCU-V-210A&B ARE TO BE INSTALLED WITH THEIR FLOW ARROWS POINTED IN THE DIRECTION OF VALVES RWCU-V-234A&B.
12. LINE NUMBERS IN PARENTHESES DENOTE RWCU-DM-1A SYSTEM IDENTIFICATION.
13. NO UNIQUE LINE NUMBERS GIVEN FOR RWCU(ALL)-1 PIPING AS THESE ARE RADWASTE LINES.
14. ALL INSTRUMENT LINES ARE DESIGNATED BY CODE AND LINE NUMBER.
- a. EXAMPLE: LINES ORIGINATING OUTSIDE CONTAINMENT.  
1/2" PI(1)-ST - (H22-P021)-A6  
CODE DESIGNATION LINE NUMBER
- b. EXAMPLE: LINES ORIGINATING INSIDE CONTAINMENT.  
1/2" PI(1)-45 - 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-P021)  
CODE DESIGNATION LINE NUMBER
15. CODE BREAK DEFINITIONS FOR THERMOWELLS ARE SHOWN ON M610. "INSTALLATION OF THERMOWELLS AND SAMPLE PROBES".
16. RWCU-PS-114 CONTACTS JUMPED CLOSED TO INDICATE NORMAL PUMP SUCTION PRESSURE.
17. VALVES RWCU-V-443 AND RWCU-SPV-443 HAVE BEEN DEACTIVATED TO PREVENT INADVERTENT RESIN SPLASH.
18. FOR SAMPLE FUNCTION & INSTRUMENTATION ASSOCIATED WITH THE SAMPLE POINTS SEE DWG. SERIES M607 STEAM & LIQUID SAMPLING FLOW DIAGRAMS AND DWG. SERIES 60A-00 SAMPLE RACKS DETAILS & FLOW DIAGRAMS.

NOTES CONT. (K/4)

LEGEND:

1. ALL VALVES (EXCEPT THOSE ON INSTRUMENT LINES) SUFFIXED WITH A (V) DENOTE A 3/4" VENT VALVE EXCEPT AS NOTED.
2. ALL VALVES (EXCEPT THOSE ON INSTRUMENT LINES) SUFFIXED WITH A (D) DENOTE A 3/4" DRAIN VALVE.
3. ALL VALVES SUFFIXED WITH A (TH) DENOTE A THROTTLED VALVE.

FSAR FIG. 1

REFERENCES TO CONTRACT NUMBERS, SUCH AS 215, 206, 220, FOUND IN THE NOTES ON THIS DRAWING REFER TO ORIGINAL CONSTRUCTION DESIGN REQUIREMENTS.

CURRENT DESIGN REQUIREMENTS ARE DOCUMENTED IN THE DESIGN SPECIFICATIONS AND ACTIVE CONTRACT SPECIFICATIONS WHICH STILL APPLY.

REV	DATE	DESCRIPTION	DWN	CHK	APVD	SIGNATURE	DATE	TITLE
101	5-31-02	REDRAWN AND REVISED PER 01485-011, 01553-008. ADDED SHEET 3.	LWCNT	BLS	SRP	SCOTT PAYNE	5-31-02	
102	6-25-04	CORRECTED INCORPORATION OF TYPO FROM 01553-008 (G/5).	DMS	KL	SRP		4-4-02	
103	12-28-04	REVISED PER 03387-300 (F/13).	RAK	HL	SRP	B. L. STAFFORD		
104	10-14-05	CORRECTED INCORPORATION OF 01553-008 (B-C/12-13).	KB	SRP	CBS			

DRN: W. CONLEY / ALTHEISEN  
SCALE: NTS  
REV: 104

DATE: 01-08-01  
DWN NO: M523-1  
REV: 104