



- REF:
1. CS DWG. E-4570-110-150 & E-4570-110-151
- NOTES:
1. RING JOINT ORIFICE ASSEMBLY SUPPLIED BY C.E. FLANGES
SUPPLIED BY BENTON.
2. SEISMIC BOUNDARY FLANGES ARE NOT SHOWN ON VENT AND
DRAIN CONNECTIONS. ON VENT & DRAIN CONNECTIONS FROM
SEISMIC CATEGORY I PIPING & COMPONENTS, THE SEISMIC
BOUNDARY EXTENDS TO THE FIRST PIPING CLASS BREAK
SHOWN ON THESE CONNECTIONS.
3. SOLENOID ACTUATORS FOR AIR OPERATED VALVES ARE SHOWN
IN THEIR SHIELD POSITION & ARE IDENTIFIED AS NORMALLY
ENERGIZED (N.E.) OR NORMALLY DE-ENERGIZED (N.D.E.) ALL
OTHER VALVES ARE SHOWN IN THEIR NORMAL PROCESS
POSITION.
4. VALVES ON THE H₂ SUPPLY LINES SHOULD BE ZERO
LEAKAGE, WARELESS TYPE, GLOBE VALVES.
5. DELETED
6. BUTTWELD SPENT RESIN LINE CONNECTIONS USE LONG
RADIUS PIPE FITTINGS OR BEND PIPE TO SWT. LINES TO BE
BUTTWELDED ARE 2HCB-50 & 2HCD-4.
7. DELETED
8. THE PURPOSE OF 2PA-248 & 249 IS TO PROVIDE INDICATION
OF ANY ACCUMULATION OF WATER IN THE SCV. THESE FLOW
GLASSES & THE DRAIN CONNECTIONS ON THE CARBON
STEEL PART OF THE VENT LINES SHOULD BE LOCATED AS
CLOSE AS POSSIBLE TO THE VENT VALVES ON THE UP STREAM
SIDE OF THE GLASSES.
9. TEMPORARY DAMPERS-2M-18 & 19 A,B,C, REPLACED WITH
PERMANENT DAMPERS-2M15 16A,B,C.
10. BLANK INSTALLER MAY BE REMOVED WITH THE APPROVAL
OF SHIP SUPERVISOR.
11. SPOOL PIECES ARE NOT TO BE PERMANENTLY REMOVED.
12. COMPUTER INPUT SIGNAL IS COMMON TO SPDS AND PLANT
COMPUTER WITH IDENTICAL POINT ID.
13. ABANDONED IN PLACE.
14. VALVES 2V2C-23A, 23B, AND 23C HAVE BEEN CHANGED TO INDICATE
THAT THESE VALVES ARE THROTTLE VALVES CONFIGURATION PER
E-4570-110-150 & 151. OPERATIONS WILL MAINTAIN THESE THREE
VALVES IN A NORMALLY OPEN VALVE CONFIGURATION POSITION
HOWEVER, OPERATIONS MAY THROTTLE THESE VALVES BACK TO A
CLOSED VALVE CONFIGURATION POSITION TO SUIT OPERATIONAL NEEDS
AS AND WHEN NEEDED.

SYSTEM/ANR REPORT		
REACTOR COOLANT/82-R-2085-81		
CHEMICAL CORE COOLING/82-R-2085-82		
CONTAINMENT SPRAY SYSTEM/82-R-2085-83		
CHEMICAL AND VOLUME CONTROL/82-R-2085-18		
LICENSE RENEWAL BOUNDARY		

ARKANSAS NUCLEAR ONE
UNIT 2
RUSSELLVILLE, ARKANSAS

PIPING & INSTRUMENT DIAGRAM
CHEMICAL & VOLUME CONTROL
SYSTEM

DRAWING NO	SHEET	REVISION
LRA-M-2231	1	0

8 SEP 23 2083

2 BASED ON M-2231 SH 1 REV 1381

RED "X" IF ORIGINAL