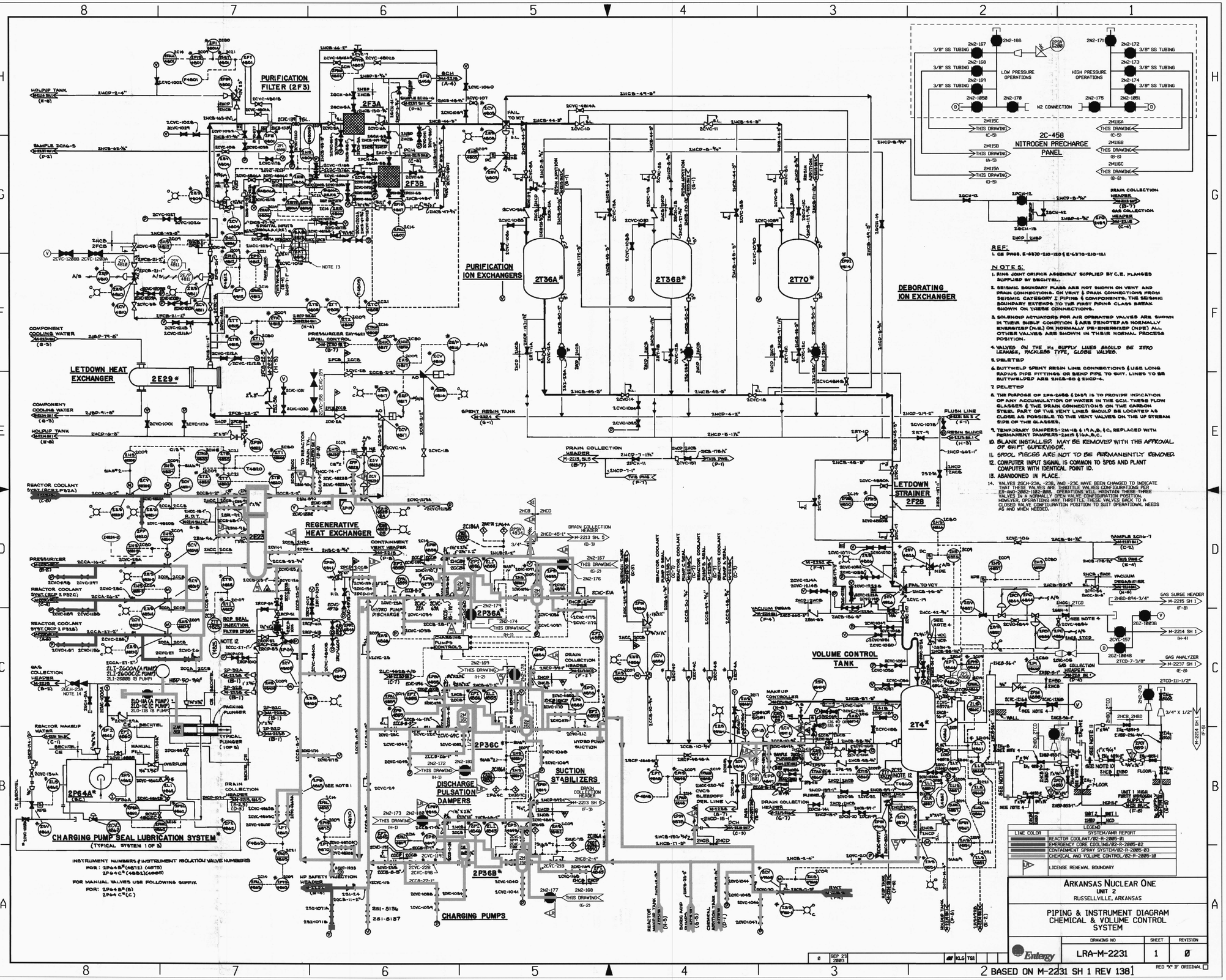
PURIFICATION FILTER (2F3)
2F3A
2F3B
PURIFICATION ION EXCHANGERS
2T36A*
2T36B*
2T70*
DEBORATING ION EXCHANGER
LETDOWN HEAT EXCHANGER
2E29*
REGENERATIVE HEAT EXCHANGER
2E23
2P36A*
2P36C*
2P36B*
DISCHARGE PULSATION DAMPERS
SUCTION STABILIZERS
CHARGING PUMPS
2P64A*
CHARGING PUMP SEAL LUBRICATION SYSTEM*
(TYPICAL SYSTEM 1 OF 3)
VOLUME CONTROL TANK
2T4*
LETDOWN STRAINER 2F28
2C-458 NITROGEN PRECHARGE PANEL
LOW PRESSURE OPERATIONS
HIGH PRESSURE OPERATIONS
N2 CONNECTION
3/8" SS TUBING
THIS DRAWING
PRESSURIZER
REACTOR COOLANT SYST (RCP 2 PS2A)
REACTOR COOLANT SYST (RCP 2 PS2C)
REACTOR COOLANT SYST (RCP 2 PS2B)
REACTOR MAKEUP WATER
COMPONENT COOLING WATER
HOLDUP TANK
SAMPLE 2C16-5
SPENT RESIN TANK
PRAIN COLLECTION HEADER
DRAIN COLLECTION HEADER
GAS COLLECTION HEADER
GAS SURGE HEADER
GAS ANALYZER
FLUSH LINE
RESIN SLUICE
HP SAFETY INJECTION HEADER
INSTRUMENT NUMBERS & INSTRUMENT ISOLATION VALVE NUMBERS
FOR: 2P64B* (4872) (4875)
2P64C* (4882)(4885)
FOR MANUAL VALVES USE FOLLOWING SUFFIX
FOR: 2P64B* (B)
2P64C* (C)
REF:
1. CE DWGS. E-6370-210-120 & E-6370-210-121
NOTES:
1. RING JOINT ORIFICE ASSEMBLY SUPPLIED BY C.E. FLANGES SUPPLIED BY BECHTEL.
2. SEISMIC BOUNDARY FLAGS 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 SHELF CONDITION & ARE DENOTED AS NORMALLY ENERGIZED (N.E.) OR NORMALLY DE-ENERGIZED (NDE) ALL OTHER VALVES ARE SHOWN IN THEIR NORMAL PROCESS POSITION.
4. VALVES ON THE H2 SUPPLY LINES SHOULD BE ZERO LEAKAGE, PACKLESS TYPE, GLOBE VALVES.
5. DELETED
6. BUTTWELD SPENT RESIN LINE CONNECTIONS & USE LONG RADIUS PIPE FITTINGS OR BEND PIPE TO SUIT. LINES TO BE BUTTWELDED ARE 2HCB-50 & 2HCD-4.
7. DELETED
8. THE PURPOSE OF 2F6-2458 & 2459 IS TO PROVIDE INDICATION OF ANY ACCUMULATION OF WATER IN THE GCH. 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-1B & 19A,B,&C, REPLACED WITH PERMANENT DAMPERS-2M15 & 16A,B,C.
10. BLANK INSTALLED. MAY BE REMOVED WITH THE APPROVAL OF SHIFT 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 2GCH-23A, -23B, AND -23C HAVE BEEN CHANGED TO INDICATE THAT THESE VALVES ARE THROTTLE VALVES CONFIGURATIONS PER ER-AND-2002-1102-000. 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.
LEGEND
LINE COLOR
SYSTEM/AMR REPORT
REACTOR COOLANT/02-R-2005-01
EMERGENCY CORE COOLING/02-R-2005-02
CONTAINMENT SPRAY SYSTEM/02-R-2005-03
CHEMICAL AND VOLUME CONTROL/02-R-2005-10
LICENSE RENEWAL BOUNDARY
ARKANSAS NUCLEAR ONE
UNIT 2
RUSSELLVILLE, ARKANSAS
PIPING & INSTRUMENT DIAGRAM
CHEMICAL & VOLUME CONTROL
SYSTEM
DRAWING NO
LRA-M-2231
SHEET
1
REVISION
Ø
Entergy
0 SEP 23 2003
KLG TS1
BASED ON M-2231 SH 1 REV 1381
RED "X" IF ORIGINAL

D-38