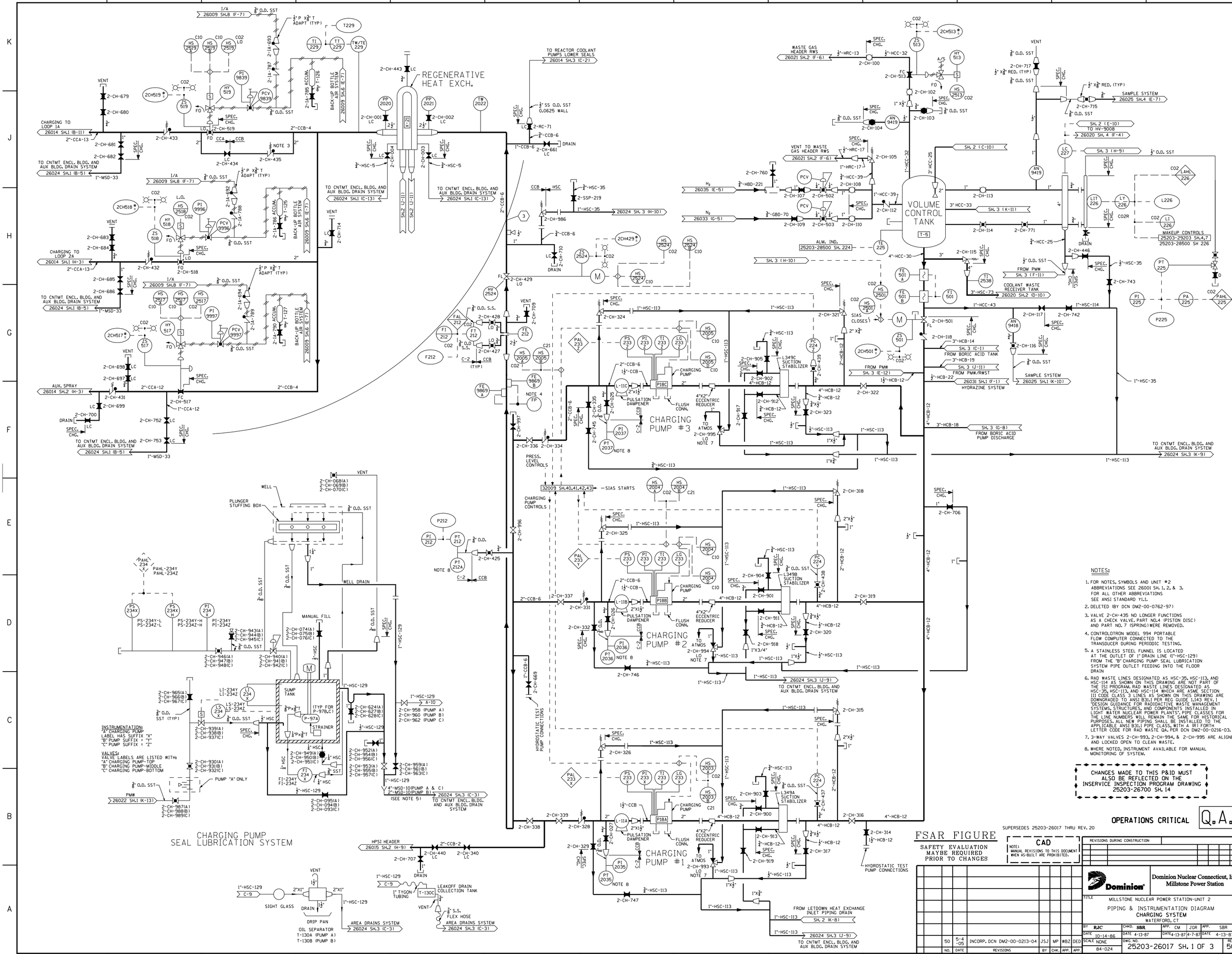
REGENERATIVE HEAT EXCH.
VOLUME CONTROL TANK
T-5
CHARGING PUMP #3
CHARGING PUMP #2
CHARGING PUMP #1
CHARGING PUMP SEAL LUBRICATION SYSTEM
SUMP TANK
P-97A
STRAINER
PLUNGER STUFFING BOX
WELL
WELL DRAIN
MANUAL FILL
DRIP PAN
OIL SEPARATOR
T-130A (PUMP A)
T-130B (PUMP B)
SIGHT GLASS
LEAKOFF DRAIN COLLECTION TANK
T-130C
PULSATION DAMPENER
FLUSH CONN.
4"X2" ECCENTRIC REDUCER
L-11A
L-11B
L-11C
P18A
P18B
P18C
TO REACTOR COOLANT PUMPS LOWER SEALS
26014 SH.3 (C-2)
TO CNTMT ENCL. BLDG. AND AUX BLDG. DRAIN SYSTEM
26024 SH.3 (J-9)
26024 SH.3 (K-9)
26024 SH.1 (C-13)
26024 SH.1 (B-5)
26024 SH.1 (B-11)
26024 SH.1 (H-3)
26024 SH.2 (H-4)
26024 SH.3 (C-3)
26024 SH.3 (H-10)
CHARGING TO LOOP 1A
CHARGING TO LOOP 2A
AUX. SPRAY
26014 SH.2 (H-3)
TO CNTMT ENCL. BLDG. AND AUX BLDG. DRAIN SYSTEM
26024 SH.1 (B-5)
TO REGEN. HX
26014 SH.1 (B-11)
26014 SH.1 (H-3)
26014 SH.2 (H-3)
26009 SH.8 (F-7)
26009 SH.6 (E-7)
BACK-UP BOTTLE AIR SYSTEM
ACCUM.
WASTE GAS HEADER RWS
26021 SH.2 (F-6)
VENT TO WASTE GAS HEADER RWS
26021 SH.2 (F-6)
ALM. IND.
25203-28500 SH. 224
SH. 3 (H-10)
SH. 2 (C-10)
SH. 3 (H-9)
SH. 3 (K-11)
SH. 3 (F-11)
SH. 3 (C-1)
FROM BORIC ACID TANK
SH. 3 (J-11)
FROM PMW/RWST
SH. 3 (E-12)
FROM PMW
SH. 3 (C-8)
FROM BORIC ACID PUMP DISCHARGE
SH. 2 (K-8)
FROM LETDOWN HEAT EXCHANGE INLET PIPING DRAIN
SAMPLE SYSTEM
26025 SH.4 (E-7)
SAMPLE SYSTEM
26025 SH.1 (K-10)
26031 SH.1 (F-1)
HYDRAZINE SYSTEM
COOLANT WASTE RECEIVER TANK
26020 SH.2 (D-10)
MAKEUP CONTROLS
25203-29203 SH.4,7
25203-28500 SH 226
TO HV-9008
26020 SH. 4 (F-4)
SH. 2 (E-10)
SIAS CLOSES
SIAS STARTS
32009 SH.40.41.42.43
CHARGING PUMP CONTROLS
HYDROSTATIC TEST PUMP CONNECTIONS
HPSI HEADER
26015 SH.2 (H-9)
AREA DRAINS SYSTEM
26024 SH.3 (C-3)
LEAKOFF DRAIN COLLECTION TANK
T-130C
INSTRUMENTATION:
"A" CHARGING PUMP
LABEL HAS SUFFIX "X"
"B" PUMP SUFFIX = "Y"
"C" PUMP SUFFIX = "Z"
VALVES:
VALVE LABELS ARE LISTED WITH:
"A" CHARGING PUMP-TOP
"B" CHARGING PUMP-MIDDLE
"C" CHARGING PUMP-BOTTOM
PUMP "A" ONLY
PMW
26022 SH.1 (K-13)
NOTES:
1. FOR NOTES, SYMBOLS AND UNIT #2 ABBREVIATIONS SEE 26001 SH. 1, 2, & 3. FOR ALL OTHER ABBREVIATIONS SEE ANSI STANDARD Y1.1.
2. DELETED (BY DCN DM2-00-0762-97)
3. VALVE 2-CH-435 NO LONGER FUNCTIONS AS A CHECK VALVE, PART NO.4 (PISTON DISC) AND PART NO. 7 (SPRING) WERE REMOVED.
4. CONTROLOTRON MODEL 994 PORTABLE FLOW COMPUTER CONNECTED TO THE TRANSDUCER DURING PERIODIC TESTING.
5. A STAINLESS STEEL FUNNEL IS LOCATED AT THE OUTLET OF 1" DRAIN LINE (1"-HSC-129) FROM THE "B" CHARGING PUMP SEAL LUBRICATION SYSTEM PIPE OUTLET FEEDING INTO THE FLOOR DRAIN
6. RAD WASTE LINES DESIGNATED AS HSC-35, HSC-113, AND HSC-114 AS SHOWN ON THIS DRAWING ARE NOT PART OF THE ISI PROGRAM. RAD WASTE LINES DESIGNATED AS HSC-35, HSC-113, AND HSC-114 WHICH ARE ASME SECTION III CODE CLASS 3 LINES AS SHOWN ON THIS DRAWING ARE DOWNGRADED TO ANSI B31.1 PER REG GUIDE 1.143 REV. 1 "DESIGN GUIDANCE FOR RADIOACTIVE WASTE MANAGEMENT SYSTEMS, STRUCTURES, AND COMPONENTS INSTALLED IN LIGHT WATER NUCLEAR POWER PLANTS", PIPE CLASSES FOR THE LINE NUMBERS WILL REMAIN THE SAME FOR HISTORICAL PURPOSES. ALL NEW PIPING SHALL BE INSTALLED TO THE APPLICABLE ANSI B31.1 PIPE CLASS, WITH A (R) FORTH LETTER CODE FOR RAD WASTE QA. PER DCN DM2-00-0216-03.
7. 3-WAY VALVES 2-CH-993, 2-CH-994, & 2-CH-995 ARE ALIGNED AND LOCKED OPEN TO CLEAN WASTE.
8. WHERE NOTED, INSTRUMENT AVAILABLE FOR MANUAL MONITORING OF SYSTEM.
CHANGES MADE TO THIS P&ID MUST ALSO BE REFLECTED ON THE INSERVICE INSPECTION PROGRAM DRAWING 25203-26700 SH. 14
OPERATIONS CRITICAL
Q.A.
FSAR FIGURE
SAFETY EVALUATION MAYBE REQUIRED PRIOR TO CHANGES
SUPERSEDES 25203-26017 THRU REV. 20
CAD
NOTE: MANUAL REVISIONS TO THIS DOCUMENT WHEN AS-BUILT ARE PROHIBITED.
REVISIONS DURING CONSTRUCTION
Dominion
Dominion Nuclear Connecticut, Inc.
Millstone Power Station
TITLE
MILLSTONE NUCLEAR POWER STATION-UNIT 2
PIPING & INSTRUMENTATION DIAGRAM
CHARGING SYSTEM
WATERFORD, CT
BY RJC CHK'D. SBR APP. CM JGR APP. SBR
DATE 10-14-86 DATE 4-13-87 DATE 4-13-87 4-7-87 DATE 4-13-87
SCALE NONE
DWG. NO. 25203-26017 SH. 1 OF 3
REV 50
NO. 50 DATE 5-4-05 REVISIONS INCORP. DCN DM2-00-0213-04 BY JSJ CHK. MP APP. WBZ APP. DED