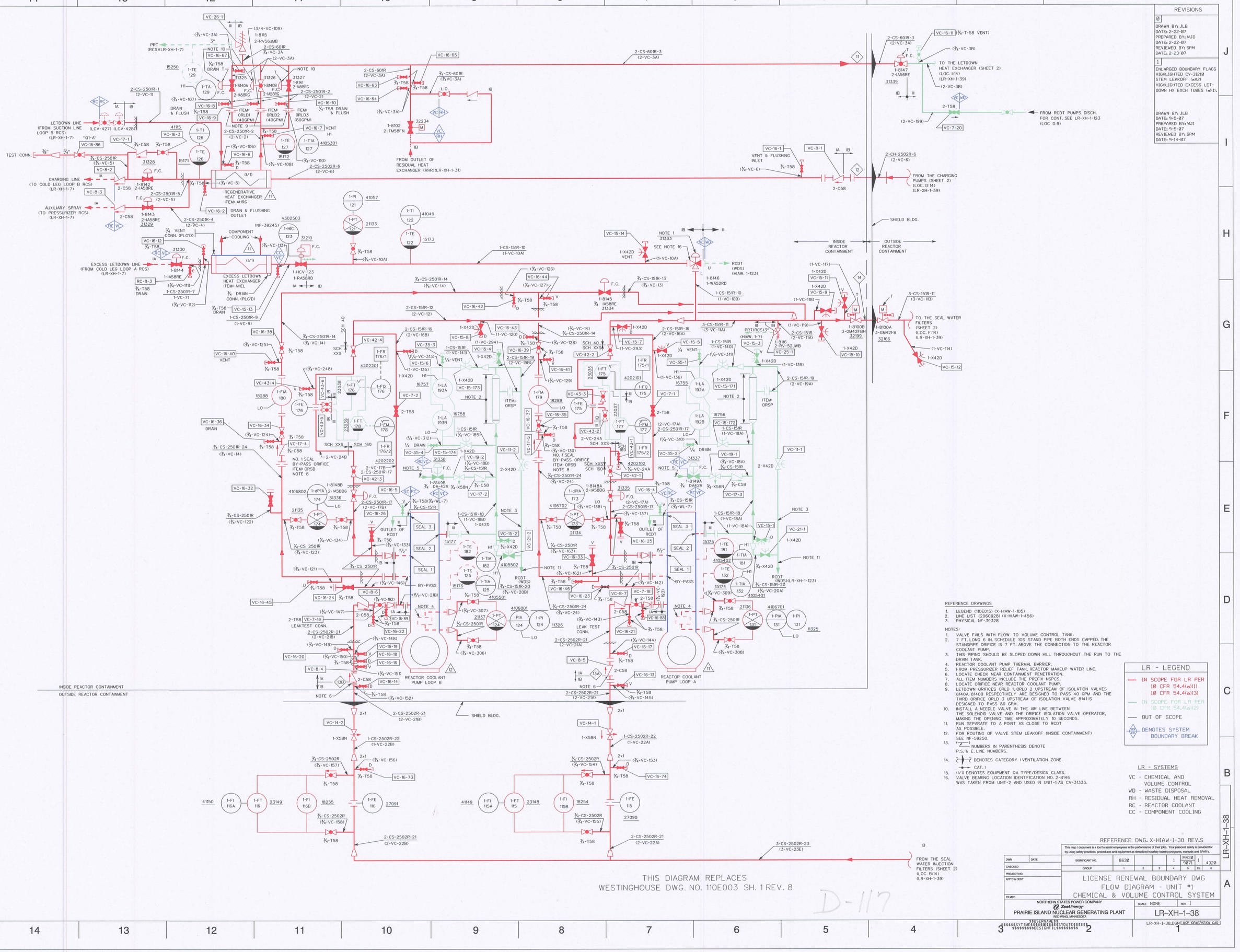
REVISIONS
Ø
DRAWN BY: JLB
DATE: 2-22-87
PREPARED BY: WJO
DATE: 2-22-87
REVIEWED BY: SRM
DATE: 2-23-87
1
ENLARGED BOUNDARY FLAGS HIGHLIGHTED CV-31210 STEM LEAKOFF (alt2) HIGHLIGHTED EXCESS LETDOWN HX EXCH TUBES (alt1).
DRAWN BY: JLB
DATE: 9-5-87
PREPARED BY: WJI
DATE: 9-5-87
REVIEWED BY: SRM
DATE: 9-14-87
LETDOWN LINE (FROM SUCTION LINE LOOP B RCS) (LR-XH-1-7)
"Q1-A"
TEST CONN.
CHARGING LINE (TO COLD LEG LOOP B RCS) (LR-XH-1-7)
AUXILIARY SPRAY (TO PRESSURIZER RCS) (LR-XH-1-7)
EXCESS LETDOWN LINE (FROM COLD LEG LOOP A RCS) (LR-XH-1-7)
REGENERATIVE HEAT EXCHANGER ITEM: AHRG
EXCESS LETDOWN HEAT EXCHANGER ITEM: AHEL
COMPONENT COOLING
FROM OUTLET OF RESIDUAL HEAT EXCHANGER (RHR)(LR-XH-1-31)
TO THE LETDOWN HEAT EXCHANGER (SHEET 2) (LOC. I:14) (LR-XH-1-39)
FROM RCDT PUMPS DISCH. FOR CONT. SEE LR-XH-1-123 (LOC D:9)
VENT & FLUSHING INLET
FROM THE CHARGING PUMPS (SHEET 2) (LOC. D:14) (LR-XH-1-39)
SHIELD BLDG.
INSIDE REACTOR CONTAINMENT
OUTSIDE REACTOR CONTAINMENT
RCDT (WDS) (HIAW. 1-123)
TO THE SEAL WATER FILTERS (SHEET 2) (LOC. F:14) (LR-XH-1-39)
NO. 1 SEAL BY-PASS ORIFICE ITEM: ORSB NOTE 8
NO. 1 SEAL BY-PASS ORIFICE ITEM: ORSB NOTE 8
OUTLET OF RCDT
LEAKTEST CONN.
LEAK TEST CONN.
REACTOR COOLANT PUMP LOOP B
REACTOR COOLANT PUMP LOOP A
FROM THE SEAL WATER INJECTION FILTERS (SHEET 2) (LOC. B:14) (LR-XH-1-39)
REFERENCE DRAWINGS
1. LEGEND (110E015) (X-HIAW-1-105)
2. LINE LIST (206C928) (X-HIAW-1-456)
3. PHYSICAL NF-39328
NOTES:
1. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK.
2. 7 FT. LONG 6 IN. SCHEDULE 10S STAND PIPE BOTH ENDS CAPPED. THE STANDPIPE ORIFICE IS 7 FT. ABOVE THE CONNECTION TO THE REACTOR COOLANT PUMP.
3. THIS PIPING SHOULD BE SLOPED DOWN HILL THROUGHOUT THE RUN TO THE DRAIN TANK.
4. REACTOR COOLANT PUMP THERMAL BARRIER.
5. FROM PRESSURIZER RELIEF TANK, REACTOR MAKEUP WATER LINE.
6. LOCATE CHECK NEAR CONTAINMENT PENETRATION.
7. ALL ITEM NUMBERS INCLUDE THE PREFIX NSPCS.
8. LOCATE ORIFICE NEAR REACTOR COOLANT PUMP.
9. LETDOWN ORIFICES ORLD 1, ORLD 2 UPSTREAM OF ISOLATION VALVES 8140A, 8140B RESPECTIVELY ARE DESIGNED TO PASS 40 GPM AND THE THIRD ORIFICE ORLD 3 UPSTREAM OF ISOLATION VALVE 8141 IS DESIGNED TO PASS 80 GPM.
10. INSTALL A NEEDLE VALVE IN THE AIR LINE BETWEEN THE SOLENOID VALVE AND THE ORIFICE ISOLATION VALVE OPERATOR, MAKING THE OPENING TIME APPROXIMATELY 10 SECONDS.
11. RUN SEPARATE TO A POINT AS CLOSE TO RCDT AS POSSIBLE.
12. FOR ROUTING OF VALVE STEM LEAKOFF (INSIDE CONTAINMENT) SEE NF-59250.
13. (z) NUMBERS IN PARENTHESIS DENOTE P.S. & E. LINE NUMBERS.
14. 2 DENOTES CATEGORY I VENTILATION ZONE. CAT. I
15. (1/1) DENOTES EQUIPMENT QA TYPE/DESIGN CLASS.
16. VALVE BEARING LOCATION IDENTIFICATION NO. 2-8146 WAS TAKEN FROM UNIT-2 AND USED IN UNIT-1 AS CV-31333.
LR - LEGEND
IN SCOPE FOR LR PER 10 CFR 54.4(a)(1)
10 CFR 54.4(a)(3)
IN SCOPE FOR LR PER 10 CFR 54.4(a)(2)
OUT OF SCOPE
DENOTES SYSTEM BOUNDARY BREAK
LR - SYSTEMS
VC - CHEMICAL AND VOLUME CONTROL
WD - WASTE DISPOSAL
RH - RESIDUAL HEAT REMOVAL
RC - REACTOR COOLANT
CC - COMPONENT COOLING
THIS DIAGRAM REPLACES WESTINGHOUSE DWG. NO. 110E003 SH. 1 REV. 8
D-117
REFERENCE DWG. X-HIAW-1-38 REV.S
This map / document is a tool to assist employees in the performance of their jobs. Your personal safety is provided for by using safety practices, procedures and equipment as described in safety training programs, manuals and SPAR's.
DWN
DATE
CHECKED
PROJECT NO.
APP'D & CERT.
FILMED
SIGNIFICANT NO. 8630
GROUP 1 2 3 4 5 CL 6
M438 1 / 9871 1 4320
LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM - UNIT #1
CHEMICAL & VOLUME CONTROL SYSTEM
NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
SCALE NONE
REV 1
LR-XH-1-38
LR-XH-1-38.DGN
$$USERNAME$$
$$$$$$SYTIME$$$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$$DESIGNFILE$$$$$$$$$$
WSP GENERATION CAD