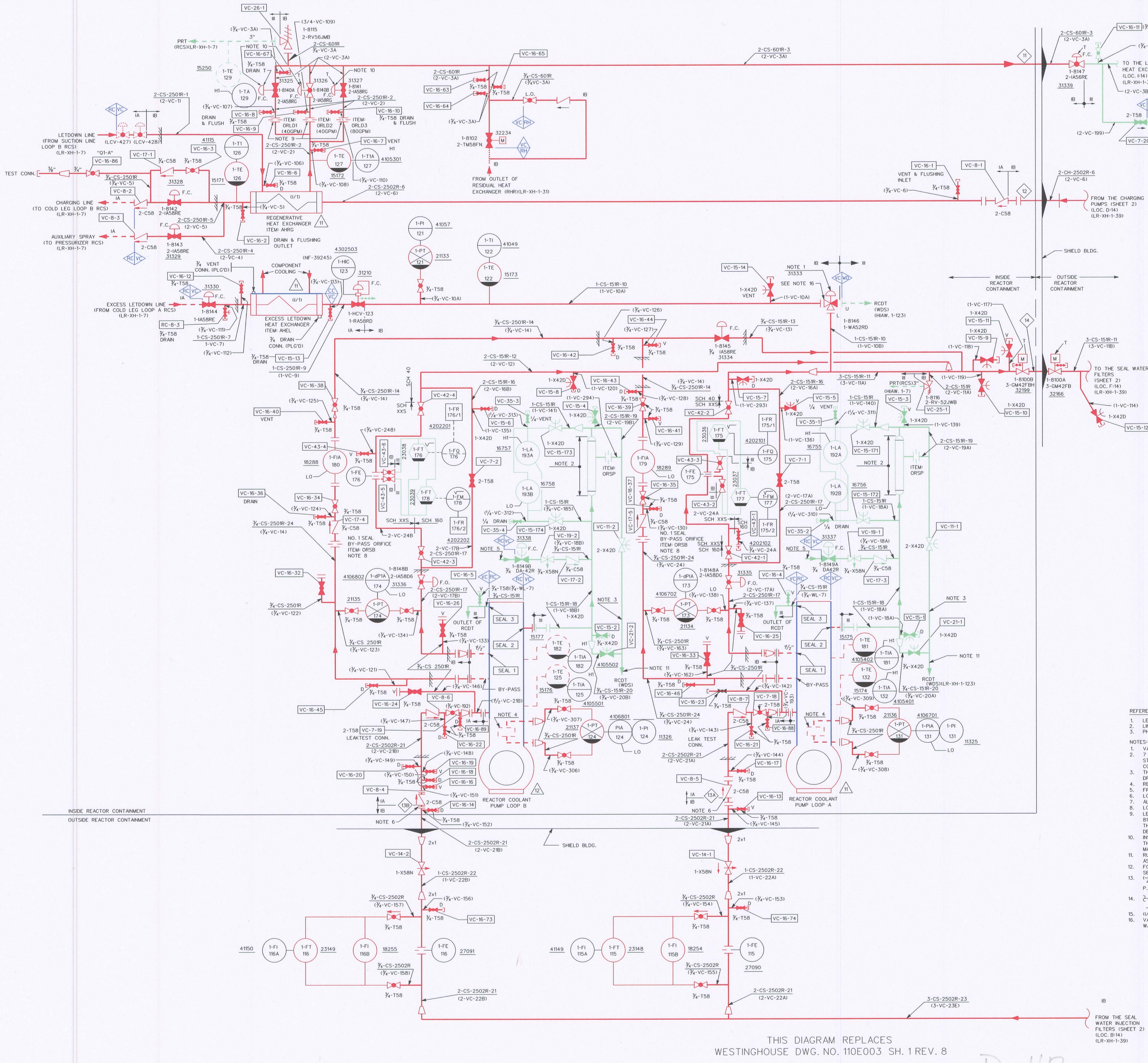

THIS DIAGRAM REPLACES
WESTINGHOUSE DWG. NO. 110E003 SH. 1 REV. 8

D-117

REVISIONS

0
DRAWN BY: JLB
DATE: 2-22-07
PREPARED BY: WJO
DATE: 2-22-07
REVIEWED BY: SRM
DATE: 2-23-07

1
ENLARGED BOUNDARY FLAGS
HIGHLIGHTED CV-31210
STEM LEAKOFF (a)(2)
HIGHLIGHTED EXCESS LET-
DOWN HX EXCH TUBES (a)(1).

DRAWN BY: JLB
DATE: 9-5-07
PREPARED BY: WJI
DATE: 9-5-07
REVIEWED BY: SRM
DATE: 9-14-07

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. NUMBERS IN PARENTHESIS DENOTE P.S. & E. LINE NUMBERS.
14. DENOTES CATEGORY I VENTILATION ZONE. CAT. I
15. (I/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

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.

SIGNIFICANT NO.	8630			1	M430 9071	1	4320
GROUP	1	2	3	4	5	CL	6

DWN | DATE
CHECKED
PROJECT NO.
APP'D & CERT.
FILMED

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

$$USERNAME$$
$$$$$$SYTIME$$$$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$DESIGNFIL$$$$$$$$$

LR-XH-1-38.DGN NSP GENERATION CAD