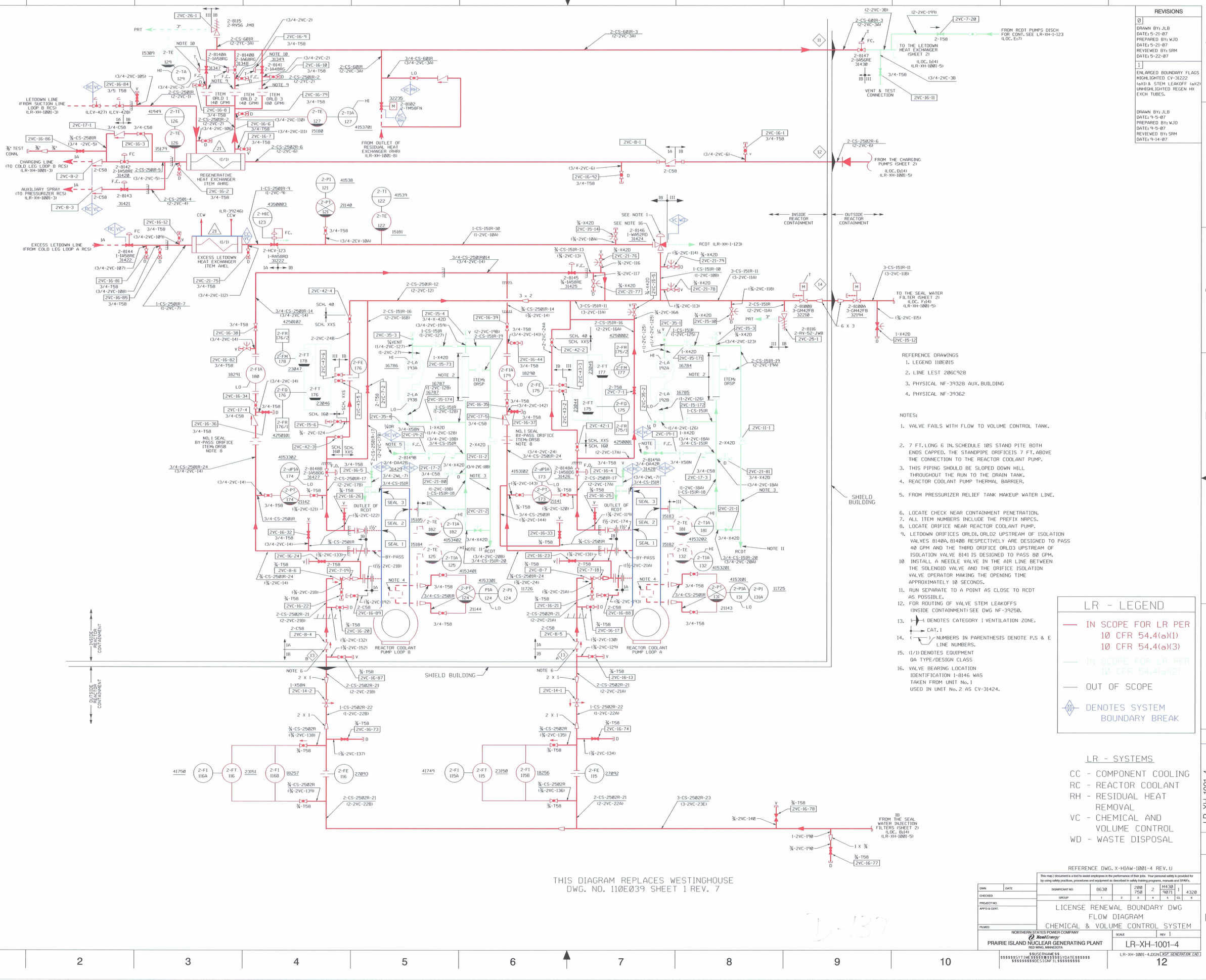

REVISIONS

0	DRAWN BY: JLB DATE: 5-21-07 PREPARED BY: WJO DATE: 5-21-07 REVIEWED BY: SRM DATE: 5-22-07
1	ENLARGED BOUNDARY FLAGS HIGHLIGHTED CV-31222 (a)(1) & STEM LEAKOFF (a)(2) UNHIGHLIGHTED REGEN HX EXCH TUBES. DRAWN BY: JLB DATE: 9-5-07 PREPARED BY: WJO DATE: 9-5-07 REVIEWED BY: SRM DATE: 9-14-07

REFERENCE DRAWINGS

1. LEGEND 110E015
2. LINE LEST 206C928
3. PHYSICAL NF-39328 AUX. BUILDING
4. PHYSICAL NF-39362

NOTES:

1. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK.
2. 7 FT. LONG 6 IN. SCHEDULE 10S STAND PITE BOTH ENDS CAPPED. THE STANDPIPE ORIFICEIS 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 MAKEUP WATER LINE.
6. LOCATE CHECK NEAR CONTAINMENT PENETRATION.
7. ALL ITEM NUMBERS INCLUDE THE PREFIX NRPCS.
8. LOCATE ORIFICE NEAR REACTOR COOLANT PUMP.
9. LETDOWN ORIFICES ORLD1, ORLD2 UPSTREAM OF ISOLATION VALVES 8140A, 8140B RESPECTIVELY ARE DESIGNED TO PASS 40 GPM AND THE THIRD ORIFICE ORLD3 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 LEAKOFFS (INSIDE CONTAINMENT) SEE DWG NF-39250.
13. DENOTES CATEGORY I VENTILATION ZONE.
14. CAT. I
    ( ) NUMBERS IN PARENTHESIS DENOTE P.S & E LINE NUMBERS.
15. (I/I) DENOTES EQUIPMENT QA TYPE/DESIGN CLASS
16. VALVE BEARING LOCATION IDENTIFICATION 1-8146 WAS TAKEN FROM UNIT No. 1 USED IN UNIT No. 2 AS CV-31424.

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

CC - COMPONENT COOLING
RC - REACTOR COOLANT
RH - RESIDUAL HEAT REMOVAL
VC - CHEMICAL AND VOLUME CONTROL
WD - WASTE DISPOSAL

THIS DIAGRAM REPLACES WESTINGHOUSE DWG. NO. 110E039 SHEET 1 REV. 7

REFERENCE DWG. X-HIAW-1001-4 REV. U

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	SIGNIFICANT NO.	8630		200 750	2	M430 9071	1	4320
CHECKED		GROUP	1	2	3	4	5	CL	6
PROJECT NO.									
APP'D & CERT.									
FILMED									

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM
CHEMICAL & VOLUME CONTROL SYSTEM

NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA

SCALE | REV 1

LR-XH-1001-4

$$USERNAME$$
$$$$$$SYTIME$$$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$$DESTONFIL$$$$$$$$$

LR-XH-1001-4.DGN [RSP GENERATION CAD]

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LR-XH-1001-4