#11 BORIC ACID EVAPORATOR
SEE DWG LR-XH-1-405

#11 VENT CONDENSER (111/3)

#11 EVAPORATOR CONDENSER (111/3)

#11 DISTILLATE COOLER (111/3)

STEAM GENERATOR BLOWDOWN SAMPLE ANALYSIS PANEL (HOT SAMPLE)

TO AND FROM SAMPLE COOLERS SEE LR-39246-2

TO & FROM TURB. GRAB SAMPLE PANEL SEE LR-39246-2

FROM UNIT 1 COMPONENT COOLING HEAT EXCHANGER SEE LR-39245-1

TO UNIT 1 COMPONENT COOLING PUMPS SEE LR-39245-1

FROM UNIT 1 COOLING HEAT EXCHANGER SEE LR-39245-1

TO UNIT 1 COMPONENT COOLING PUMPS SEE LR-39245-1

FROM UNIT 1 COMPONENT COOLING HEAT EXCHANGERS SEE LR-39245-1

CHILLER UNIT HOT CHEM. LAB III / 3

REG. VALVE

TO UNIT 1 COMPONENT COOLING PUMPS SEE LR-39245-1

TO UNIT-2 COMPONENT COOLING PUMPS SEE LR-39246-1

TEMPORARY LINE TO BORIC ACID EVAPORATOR

SPECTACLE FLANGE

*122 SPENT FUEL PIT HEAT EXCHANGER (111/3)

*121 SPENT FUEL PIT HEAT EXCHANGER (111/3)

122

121

PLUG

PLUG

TEMPORARY LINE FROM BORIC ACID EVAPORATOR

FROM UNIT-2 COMP. COOL. HEAT EXCHANGER SEE LR-39246-1

FROM UNIT 1 COMP. COOL. HEAT EXCHANGER SEE LR-39245-1

TO WASTE GAS RECOMBINER #122 SEE LR-XH-550-6

TO WASTE GAS RECOMBINER #121 FOR CONT. SEE LR-XH-550-6

REACTOR MAKE-UP WATER SUPPLY SEE NF-39242

COMPRESSOR SEAL MAKE-UP LINE SEE LR-XH-1-124

#122 WASTE GAS COMPRESSOR PKG. SEE LR-XH-1-124 (111/3)

HEAT EXCHANGER

REACTOR MAKE-UP WATER SUPPLY SEE LR-39242

COMPRESSOR SEAL MAKE-UP LINE SEE LR-XH-1-124

#121 WASTE GAS COMPRESSOR PKG. SEE LR-XH-1-124 (111/3)

HEAT EXCHANGER

TO UNIT 1 COMPONENT COOLING PUMPS SEE LR-39245-1

#121 WASTE EVAPORATOR CONDENSER. SEE XH-1-143 (111/3)

FROM UNIT-2 COMP. COOL. HEAT EXCHANGER SEE LR-39246-1

FROM WASTE GAS RECOMBINER * 122 FOR CONT. SEE LR-XH-550-6

4" FROM ADT EVAP SEE LR-39236

FROM WASTE GAS RECOMBINER *121 FOR CONT. SEE LR-XH-550-6

TO UNIT 2 COMPONENT COOLING PUMPS SEE LR-39246-1

FROM ¾"-CC-94 RECOMBINER *121

#121 WASTE EVAPORATOR DISTILLATE COOLER. SEE XH-1-143 (111/3)

REACTOR MAKE-UP WATER SUPPLY SEE LR-39242

COMPRESSOR SEAL MAKE-UP LINE SEE LR-XH-550-1

#123 WASTE GAS COMPRESSOR PKG. SEE LR-XH-550-1 (111/3)

HEAT EXCHANGER

#11 LETDOWN HEAT EXCHANGER (111/3)

FROM UNIT 1 COMP. COOL. HEAT EXCHANGER SEE LR-39245-1

TO UNIT 1 COMPONENT COOLING PUMPS SEE LR-39245-1

#11 SEAL WATER HEAT EXCHANGER (111/3)

FROM UNIT 1 COMP. COOL. HEAT EXCHANGER SEE LR-39245-1

(1/1) COOLING PUMPS TO COMPONENT SEE LR-39245-1

LR NOTE: 4" FROM ADT EVAP SEE LR-39236

LR NOTE

LEGEND

DENOTES LIMITS OF QA TYPES.
1A-1B-1C DENOTES THE PIPING QA TYPES DESIGN CLASS
(1A/1)-(1/2)-(1/3) DENOTES THE EQUIPMENT QA TYPES DESIGN CLASS ALL PIPING TO BE QA TYPE 1B UNLESS OTHERWISE NOTED. NOTED INTERLOCK LOGIC DIAGRAM SEE NF-40321 THERWISE NOTED. INTERLOCK LOGIC DIGRAM SEE NF-40321
CAT. 1 DENOTES CATEGOY 1 VENTILATION ZONE

LR - SYSTEMS
CC - COMPONENT COOLING
WD - WASTE DISPOSAL
VC - CHEMICAL AND VOLUME CONTROL
SM - PLANT SAMPLE SYSTEM
SF - SPENT FUEL POOL COOLING

PIPE LINE
SEISMIC ANCHOR

NOTES:

1. JUMPERS HAVE BEEN INSTALLED BETWEEN THE DISCHARGE OF *1 (2) CC PUMPS AND THE SUCTION OF *2I (1) CC PUMPS FOR THE TRANSFER OF CC WATER FROM ONE UNIT TO THE OTHER.
2. ALL VENTS AND DRAINS ARE ¾" UNLESS NOTED OTHERWISE.

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

REFERENCES

SYSTEM: COMP. COOLING WTR PIPING AUX. BLDG. UNIT*1 ---------- NF-39330-1 THRU -6

REFERENCE NF-39245-2 REV. M

REVISIONS

Ø
DRAWN BY: JLB
DATE: 6-14-07
PREPARED BY: RAB
DATE: 6-14-07
REVIEWED BY: SRM
DATE: 6-14-07

1
REVISE (a)(1) - (a)(2) BOUNDARIES FOR 121/122 SFP HX 's, ENLARGE BOUNDARY FLAGS, AND REVISE REFERENCE DWGS FROM LR TO NF.
DRAWN BY: JLB
DATE: 7-26-07
PREPARED BY: WJI
DATE: 7-26-07
REVIEWED BY: SRM
DATE: 8-1-07

2
REVISED BOUNDARY FLAG LOCATIONS & REVISED (a)(1)/(a)(2) BOUNDARIES
DRAWN BY: JLB
DATE: 10-19-07
PREPARED BY: WJI
DATE: 10-19-07
REVIEWED BY: SRM
DATE: 10-22-07

3
HIGHLIGHTED SIESMIC ANCHORS (a)(3).
DRAWN BY: JLB
DATE: 12-5-07
PREPARED BY: WJI
DATE: 12-5-07
REVIEWED BY: SRM
DATE: 12-10-07

4
REVISED DWG LINK NUMBER & CLARIFIED (a)(3) BOUNDARY
DRAWN BY: JLB
DATE: 2-12-08
PREPARED BY: WJI
DATE: 2-12-08
REVIEWED BY: SRM
DATE: 2-13-08

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 SPAN's.

DWN	DATE	SIGNIFICANT NO.	8630		200	1	4400		4130
CHECKED		GROUP	1	2	3	4	5	QA	R
PROJECT NO.									
APP'D & CERT.									
FILMED									

LICENSE RENEWAL BOUNDARY DWG
UNIT #1 - FLOW DIAGRAM
COMPONENT COOLING SYSTEM

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

SCALE | REV 4

LR-39245-2

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

LR-39245-2.DGN

WSP GENERATION CAD

LR-39245-2