TYPICAL VENT & DRAIN PIPING. #11 & #12 EXCITER COOLERS

TYPICAL VENT PIPING #11 & #12 GENERATOR HYDROGEN COOLERS

TURBINE OIL RESERVOIR OIL COOLERS (III/3)

TURBINE E.H. FLUID RESERVOIR OIL COOLERS (III/3)

FEEDWATER PUMP OIL COOLERS (III/3)

CONDENSATE PUMP OIL COOLERS (III/3)

HEATER DRAIN PUMP OIL COOLERS (III/3)

GENERATOR BUS DUCT COOLERS (III/3)

TURBINE ROOM SUMP PUMP (III/3)

GENERATOR HYDROGEN COOLERS (III/3)

GENERATOR EXCITER COOLERS (III/3)

#11 HYDROGEN SEAL OIL UNIT COOLERS (III/3)

REVISIONS

0	DRAWN BY: JLB DATE: 4-12-07 PREPARED BY: MLR DATE: 4-12-07 REVIEWED BY: SRM DATE: 4-17-07
1	ADD APPENDIX R AND CORRECT (a)(1) - (a)(3) BOUNDARIES DRAWN BY: JLB DATE: 7-3-07 PREPARED BY: RAB DATE: 7-3-07 REVIEWED BY: SRM DATE: 7-23-07
2	REMOVED HIGHLIGHTS FROM 11/12 TURB BLDG SUMP PUMPS DRAWN BY: JLB DATE: 10-05-07 PREPARED BY: WJI DATE: 10-05-07 REVIEWED BY: SRM DATE: 10-08-07
3	HIGHLIGHTED *11 H2 SEAL OIL COOLERS SHELL (a)(2), HIGHLIGHTED GENERATOR EXCITER COOLERS AND GENERATOR H2 COOLERS END BELLS AND TUBES (a)(2). DRAWN BY: JLB DATE: 12-10-07 PREPARED BY: WJI DATE: 12-10-07 REVIEWED BY: SRM DATE: 12-11-07
4	ADDED SEISMIC ANCHOR, ADDED LR NOTE, REVISED (a)(2) BOUNDARY TO NOT IN SCOPE BELOW GROUND LEVEL AT CLG WTR STANDPIPE. DRAWN BY: JLB DATE: 2-19-08 PREPARED BY: WJI DATE: 2-19-08 REVIEWED BY: SRM DATE: 2-19-08

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

CL - COOLING WATER
TB - TURBINE AND SUPPORT SYSTEMS
WD - WASTE DISPOSAL
CD - CONDENSATE
FW - FEEDWATER
HS - HEATING SYSTEM
CW - CIRCULATING WATER
FP - FIRE PROTECTION

LR NOTES:

SEISMIC ANCHOR — PIPE LINE

REFERENCE PIPING DWG. NO'S:

COOLING WATER : NF-39291-1 THRU -9
FILTERED WATER : NF-39298-1, NF-39298-2

LEGEND:

←|→ DENOTES LIMITS OF Q.A. TYPES. IA, IC, IIB DENOTES THE PIPING Q.A. TYPES. (I/1)(II/3)(III/3) DENOTES THE EQUIP. QA TYPE/ DESIGN CLASS.
(W) DENOTES FURNISHED BY WESTINGHOUSE.
* DENOTES FURNISHED W/EQUIP.
DENOTES CATEGORY I VENT ZONE

D-006

REFERENCE NF-39216-2 REV. AD

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			1	4400	1	8540
CHECKED		GROUP	1	2	3	4	5	CL	6
PROJECT NO.									
APP'D & CERT.									
FILMED									

LICENSE RENEWAL BOUNDARY DWG
COOLING WATER - TURBINE BUILDING FLOW DIAGRAM - UNIT 1

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

SCALE NONE | REV 4

LR-39216-2

$$USERNAME$$
$$$$$$SYTIME$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$$DESIGNFILE$$$$$$$$$

LR-39216-2.DGN KSP GENERATION CAD