UNIT 1											UNIT 2								
DESCRIPTION	PRESSURIZER STEAM SPACE	PRESSURIZER LIQUID SPACE	#11 HOT LEG B	#12 R.H.R. LOOP	MIXED BED DEMIN. OUTLET	MIXED BED DEMIN. INLET	#11 STM. GEN. BLOW DOWN	#12 STM. GEN. BLOW DOWN	VOLUME CONTROL TANK GAS SPACE		PRESSURIZER STEAM SPACE	PRESSURIZER LIQUID SPACE	HOT LEG B	#21 RESIDUAL HEAT REMOVAL LOOP	MIXED BED DEMIN. OUTLET	MIXED BED DEMIN. INLET	VOLUME CONTROL TANK GAS SPACE	#21 STM. GEN. BLOWDOWN	#22 STM. GEN. BLOWDOWN
SAMPLE NO.	SM-1	SM-2	SM-3	SM-4	SM-5	SM-6	SM-35	SM-36	SM-7		SM-201	SM-202	SM-203	SM-204	SM-205	SM-206	SM-207	SM-235	SM-236
REFERENCE DWG.	LR-XH-1-7	LR-XH-1-7	LR-XH-1-7	LR-XH-1-31	LR-XH-1-39	LR-XH-1-39	LR-88740	LR-88740	LR-XH-1-39		LR-XH-1001-3	LR-XH-1001-3	LR-XH-1001-3	LR-XH-1001-8	LR-XH-1001-5	LR-XH-1001-5	LR-XH-1001-5	LR-39250	LR-39250
TEMP./ PRESS.	653 °F/2235#	650 - 550 °F/2235#	610 °F/2235#	340°F/450#	130°F/15#	130°F/50#	560°F/1020#	560°F/1020#	130 °F/15#		653 °F/2235#	650-550 °F/2235#	610 °F/2235#	350 °F/450#	130 °F/15#	130°F/50#	130 °F/15#	560 °F/1020#	560°F/1020#
NORMAL CC / MIN	1500	1500	1500	1500	1500	1500	1500	1500	1500		1500	1500	1500	1500	1500	1500	1500	1500	1500

REVISIONS

0
DRAWN BY: JLB
DATE: 4-3-07
PREPARED BY: WJD
DATE: 4-3-07
REVIEWED BY: SRM
DATE: 4-17-07

1
HIGHLIGHT INSTRUMENTATION PRESSURE BOUNDARY AND ENLARGE BOUNDARY FLAGS.
DRAWN BY: JLB
DATE: 7-13-07
PREPARED BY: WJI
DATE: 7-13-07
REVIEWED BY: SRM
DATE: 7-23-07

2
REVISED LINK DWG FROM LR TO XH
DRAWN BY: JLB
DATE: 9-20-07
PREPARED BY: WJI
DATE: 9-20-07
REVIEWED BY: SRM
DATE: 9-24-07

3
HIGHLIGHTED SEISMIC ANCHORS (6#2).
DRAWN BY: JLB
DATE: 12-5-07
PREPARED BY: WJD
DATE: 12-5-07
REVIEWED BY: SRM
DATE: 12-11-07

4
REVISED LR NOTES; REPLACED SEISMIC ANCHORS WITH SEISMIC ENDPOINTS.
DRAWN BY: JLB
DATE: 2-4-08
PREPARED BY: WJI
DATE: 2-4-08
REVIEWED BY: SRM
DATE: 2-4-08

SAMPLE CYLINDER ASSEMBLIES REQ'D.
* #121 - 75CC SAMPLE CYLINDER ASSEMBLY
* #122 - 75CC SAMPLE CYLINDER ASSEMBLY
* #123 - 75CC SAMPLE CYLINDER ASSEMBLY
* #124 - 75CC SAMPLE CYLINDER ASSEM BLY
* #121 - 500CC SAMPLE CYLINDER ASSEMBLY
* #122 - 500CC SAMPLE CYLINDER ASSEMBLY
* #123 - 500CC SAMPLE CYLINDER ASSEMBLY
* #124 - 500CC SAMPLE CYLINDER ASSEMBLY

LEGEND
F.C. DENOTES FAIL CLOSED
DENOTES LIMITS OF Q.A. TYPES.
IA, IB & III DENOTES THE PIPING Q.A. TYPES.
(I/1) DENOTES EQUIPMENT Q.A./DESIGN CLASS CAT. I
DENOTES CATEGORY I VENTILATION ZONE.
DENOTES PENETRATION NUMBERS

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
SM - PLANT SAMPLE SYSTEM
CC - COMPONENT COOLING
WD - WASTE DISPOSAL
VC - CHEMICAL AND VOLUME CONTROL

LR NOTES:
SEISMIC ENDPOINT
PIPE LINE
ANALYTICAL ENDPOINT/FREE END. 3/8" TUBE DECOUPLED FROM 3/4" PIPE. SEE EM-3.2.1.1

REFERENCE PIPING DWG. NO'S. SYSTEM: SAMPLING SYSTEM UNIT 1 AND 2
NF-39297-1
NF-39297-2
NF-39297-3
NF-39297-4
NF-39297-5

INTERLOCK LOGIC DRAWING NO
NF-40322

ACCOUNT #
40-59-1-84 (UNIT 1)
41-59-2-84 (UNIT 2)

REFERENCE NF-39238 REV. AC

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			100	4410	1	8450
CHECKED		GROUP	1	2	3	4	5	CL	6
PROJECT NO.									
APPD & CERT.									
FILMED									

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM
SAMPLING SYSTEM REACTOR PLANT

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

SCALE NONE | REV 4

LR-39238

LR-39238.DGN [NSP GENERATION CAD]

D-037