REVISIONS
Ø DRAWN BY: JLB DATE: 3-13-07 PREPARED BY: MLR DATE: 3-13-07 REVIEWED BY: SRM DATE: 3-13-07
1 HIGHLIGHTED SIESMIC ANCHOR (ø)K2L DRAWN BY: JLB DATE: 12-6-07 PREPARED BY: WJI DATE: 12-6-07 REVIEWED BY: SRM DATE: 12-10-07

VENT TO ATMOSPHERE

DISCHARGE INJECTION QUILL 262-471

TO #21 COOL. WTR. PUMP SUCTION SEE LR-39216-1

CH-8-2

S Ø58-161

FILL CONN. TO SODIUM BROMIDE STORAGE TANK

CH-15-6

2FI 354 FLOWMETER

CH-15-5

47020 -0605

2LS 355

UNIT 2 RELIEF TANK 253-251

#121 SODIUM HYPOCHLORITE DRAWDOWN TANK Ø53-771

CH-16-2

CH-12-2

CH-12-4

CH-19-2

CH-17-2

CH-18-1

CH-15-4

CH-4-28

CH-5-11

CH-4-18

CH-4-17

S 258-051

S 258-052

21 HYPO-BROMOUS ACID MIXER 262-431

21 SODIUM BROMIDE METERING PUMP 245-861

22 SODIUM BROMIDE METERING PUMP 245-862

CH-4-19

CH-4-16

2PI 356

2PI 357

CH-4-21

CH-4-14

CH-4-20

CH-5-7

CH-4-15

CH-5-6

NOTE 1 262-461

CH-6-4

CH-6-3

CH-4-29

NOTE 1 262-451

CH-11-4

CH-11-5

CH-3-16

CH-3-9

CH-3-11

S 258-062

S 258-061

CH-3-8

CH-3-10

2PI 359

CH-4-22

CH-5-8

CH-4-23

22 SODIUM HYPOCHLORITE METERING PUMP 245-872

21 SODIUM HYPOCHLORITE METERING PUMP 245-871

2PI 358

CH-4-24

CH-5-9

CH-4-25

CH-4-30

CH-3-7

S Ø58-151

CH-14-1

CH-3-12

UNIT 2 FEED SKID

#121 BULK SODIUM BROMIDE TANK Ø53-731

#122 BULK SODIUM HYPOCHLORITE TANK Ø53-742

#121 BULK SODIUM HYPOCHLORITE TANK Ø53-741

SIGHT GLASS

CH-14-4

CH-10-1

CH-10-2

CH-3-14

CH-3-18

CH-1-3

CH-1-2

VALVE CH-14-2 MUST BE UNDER ADMINISTRATIVE CONTROL SEE C30.

CH-14-2

CH-1-1

CH-14-3

CH-2-3

CH-3-15

CH-3-20

CH-3-19

CH-3-13

CH-9-2

CH-9-1

CH-15-1

CH-19-1

CH-13-1

FROM COOLING WATERHEADER SEE LR-39216-1

CH-17-1

TO #11 COOLING WATER PUMP SUCTION SEE LR-39216-1

DOOR

CH-3-17

CH-3-6

CH-8-1

FILL CONN. TO SODIUM HYPOCHLORITE TANK

S Ø58-171

UNIT 1 FEED SKID

47020 -0605

1LS 355

UNIT 1 SKID RELIEF TANK 153-251

CH-11-1

CH-11-2

NOTE 1 162-461

NOTE 1 162-451

CH-6-2

CH-6-1

CH-4-7

CH-5-2

CH-4-2

CH-5-1

CH-4-26

CH-4-11

CH-5-4

CH-4-12

CH-4-8

CH-4-1

CH-4-9

CH-5-3

CH-4-10

1PI 356

1PI 357

1PI 359

11 SODIUM BROMIDE METERING PUMP 145-861

12 SODIUM BROMIDE METERING PUMP 145-862

11 HYPO-BROMOUS ACID MIXER 162-431

12 SODIUM HYPOCHLORITE METERING PUMP 145-872

11 SODIUM HYPOCHLORITE METERING PUMP 145-871

CH-4-6

CH-4-4

CH-3-2

CH-3-4

S 158-051

S 158-052

S 158-062

S 158-061

CH-5-12

CH-4-27

CH-4-5

CH-4-3

CH-3-3

CH-3-5

CH-4-13

CH-3-1

CH-15-3

CH-15-2

1FI 354 FLOWMETER

CH-16-1

DISCH. INJ. QUILL 162-471

CH-19-1

CH-12-3

CH-12-1

SIGHT GLASS

CH-14-3

CH-2-3

LR NOTES:

PIPE LINE — SIESMIC ANCHOR

SCREEN HOUSE

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 - SYSTEM

CL - COOLING WATER

NOTES:

1. -PULSATION DAMPENER.

REFERENCE DRAWING NUMBERS

NF-39306-1.....CHLORINE SYSTEM PIPING
NF-39216-1.....COOLING WATER SYSTEM PIPING.
NF-38350-35.....CHORINE HOUSE CONCRETE.
NF-121189.....CH LOGIC
NF-39613-1 ,2.....SCREENHOUSE HVAC.

REFERENCE DWG. NF-39254 REV. 0

DWN	DATE	SIGNIFICANT NO.	8630			100	4410	1	8330	CAD DWG									
DGN'R	CHK'D	GROUP	1	2	3	4	5	CL	6	CLN	09-03-96								
PROJECT NO.																			
APP'D & CERT.																			
FILMED																			

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM
HYPOBROMOUS ACID FEED SYSTEM

NORTHERN STATES POWER COMPANY
MINNEAPOLIS MINNESOTA

SCALE — REV 1

LR-39254

LR-39254.DGN NSP GENERATION CAD

D-065