REVISIONS
0 DRAWN BY: JLB DATE: 3-2-07 PREPARED BY: MLR DATE: 3-2-07 REVIEWED BY: SRM DATE: 3-2-07
1 REMOVE BOUNDARY FLAGS & REFERENCED CD SYSTEM DRAWN BY: JLB DATE: 7-11-07 PREPARED BY: WJI DATE: 7-11-07 REVIEWED BY: SRM DATE: 7-23-07

121 MIXED BED

122 MIXED BED

DE-160-6 · CV 39759 · DE-148-18 · DE-150-9 MEDIA REMOVAL · CV 39762 · ½" · DE-147-3 · DRAIN · DE-156-104 · DRAIN · CV 39701

DE-160-8 · FROM MIXED BED FEED PUMPS LR-39241-7 · 4-DE- · SLUICE WATER OR DRAIN · DE-152-7 · DE-149-35 · FI 1201 · DE-142-6 · SA/DE · CV 39760 · PT 1265 · DE-156-118 · DE-156-108 · S · DE-156-110 · DE-156-112 · FT 1216 · FE 1216 · CV 39761 · DE-148-20 · CV 39763 · DE-141-11 · DE-156-114 · ½" · TO SAMPLING SYSTEM NF-39241-4

DE-160-7 · DE-104-1 · DE-22-5 · DE-22-3 · DE-22-6 · DE-32-3 · DE-104-2

DE-19-1 · CV 31150 · DE-19-2 · TO UNIT 1 CONDENSATE SYSTEM, SEE LR-39220

DE-20-1 · CV 31394 · DE-20-2 · DE/VC · TO *11 AND *12 REACTOR MAKEUP STORAGE TANKS, SEE LR-39242

DE-63-1 · CV 31994 · DE-20-3 · CV 31149 · DE-64-1 · DE-20-4 · TO *11 CONDENSATE MAKEUP STORAGE TANK, SEE LR-39220 · DE-21-3 · DE-21-1 · DE-21-2

DE-34-76 · DE-22-1 · DE-59-1 · DEMINERALIZED WATER TO UNIT 1 SERVICES SEE LR-39242

¾" HT/LT CLNT. FILL & FLUSH CONNECTION · 2DE-38-2 · 2DE-37-2 · DE/DG · *22 D6 HT/LT CLNT. MAKEUP TANK

2DE-34-42 · DE-59-2 · DE-22-2 · 2DE-34-41 · DE-22-4 · DE-59-4 · DEMINERALIZED WATER TO UNIT 2 SERVICES SEE LR-39242 · 2DE-36-1

¾" HT/LT CLNT. FILL & FLUSH CONNECTION · 2DE-38-1 · 2DE-37-1 · DE/DG · *21 D5 HT/LT CLNT. MAKEUP TANK

2DE-19-1 · CV 31152 · 2DE-19-2 · TO UNIT 2 CONDENSATE SYSTEM, SEE LR-39221

2DE-20-1 · CV 31401 · 2DE-20-2 · DE/VC · TO *21 AND *22 REACTOR MAKEUP STORAGE TANKS, SEE LR-39242

2DE-63-1 · CV 31993 · 2DE-20-3 · CV 31151 · 3-2DE-6 · 2DE-64-1 · 2-2DE-1 · 2DE-20-4 · TO *21 CONDENSATE MAKEUP STORAGE TANK, SEE LR-39221 · 2DE-21-3 · 2DE-21-1 · 2DE-21-2

3" · 2DE-63-2 · TO CHILLED WATER SYSTEM, SEE LR-86172-1

DE-160-10 MEDIA REMOVAL · CV 39764 · DE-148-19 · CV 39767 · ½" · DE-147-4 · DRAIN · DE-156-105 · DRAIN · CV 39702

FROM STATION AIR SYSTEM · DE-149-36 · FI 1202 · DE-142-7 · SA/DE · CV 39765 · SLUICE WATER OR DRAIN · DE-152-8 · PT 1267 · DE-156-119 · DE-156-109 · S · DE-156-111 · DE-156-113 · FT 1217 · FE 1217 · CV 39766 · DE-148-21 · CV 39768 · DE-141-12 · DE-156-115 · ½" · TO SAMPLING SYSTEM LR-39241-4

RINSE/RECYCLE TO VACUUM DEGASIFIER INLET, LR-39241-6

DE-148-28 · DE-148-29

3" · FROM 123 RO PERMEATE LR-39241-5 · DE-141-18 · FROM 121 RO REJECT LR-39241-6 · 1½"

3" · FROM 122 RO PERMEATE LR-39241-5 · DE-141-17 · FROM 122 RO REJECT LR-39241-5 · 1½"

3" · FROM 121 RO PERMEATE LR-39241-6 · DE-141-16 · FROM 123 RO REJECT LR-39241-5 · 1½"

TO RECYCLE CANAL WALL · 8" · DE-76-1 · CIP · DE-82-1 · DE-148-35 · FROM 121 CDI DRAINS LR-39241-6 · FROM 122, 123 CDI DRAINS LR-39241-7 · FROM DEGAS VACUUM PUMP STANDPIPE LR-39241-4 · FLOOR DRAIN · FROM SOFTENER DRAINS, LR-39241-3 · 3" · DE-161-1 · DE-156-138 · TO RECYCLE CANAL

LR - SYSTEMS

DE - WATER TREATMENT
CL - COOLING WATER
VC - CHEMICAL AND VOLUME CONTROL
DG - DIESEL GENERATORS & SUPPORT SYSTEMS
SA - STATION AND INSTRUMENT AIR

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

D-048

REFERENCE DWG. NF-39241-8 REV. A

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.

SIGNIFICANT NO.	8630		400	100	4400	1	7410	
GROUP	1	2	3	4	5	CL	6	

DWN LAB · DATE · CHECKED · PROJECT NO. Ø2DE01 · APP'D & CERT. · FILMED

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM WATER TREATMENT
MIXED BED

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

SCALE C-#-J · REV 1

LR-39241-8

$$$$$$$USERNAME$$$$$$$