REVISIONS

Ø	DRAWN BY: JLB DATE: 3-27-07 PREPARED BY: RAB DATE: 3-27-07 REVIEWED BY: SRM DATE: 3-27-07

RO PREMEATE FROM 122 RO LR-39241-5

DEIONIZED WATER FROM CONDENSATE TRANSFER PUMPS LR-39241-6

DE-157-43 · DE-149-14 · DE-149-22 · CIP · CV 39746 · CV 39745 · DE-158-72 · PI 1172 · DE-158-61

PT 1257 · DE-156-79 · DE-158-71 · CV 39779

122 CDI POWER PANEL 70279

122 CDI PLC PANEL 70278

FROM INSTRUMENT AIR SYSTEM LR-39244 · SA-64-23 · SA-64-12

*1 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-79
*2 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-82
*3 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-85
*4 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-88
*5 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-91
*6 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-94
*7 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-97
*8 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-100

DE-156-82 · DE-156-85 · FT 1213 · FE 1213 · CCT 1188 · CCE 1188 · PT 1259 · DE-158-68 · DE-158-64 · DE-141-8 · DE-149-24 · CIP

PT 1258 · DE-158-76 · DE-156-88 · DE-144-2 · DE-149-27 · CIP

CV 39747 · CV 39748 · CV 39749 · CV 39750 · CV 39751

DE-149-16 · DE-149-19 · DE-155-2 · DE-157-35 · DE-141-14

CONCENTRATE/DIVERT TO VACUUM DEGASIFIERS LR-39241-6

TO DRAIN HEADER LR-39241-8

121-123 MB FEED PUMPS PLC PANEL 70284

121-123 MB FEED PUMPS POWER PANEL 70285

FROM INSTRUMENT AIR SYSTEM LR-39244 · SA-64-28

PI 1175 · DE-156-101 · DE-156-98 · DE-107-4 · DE-108-1 · 121 MIXED BED FEED PUMP · DE-107-1

PI 1177 · DE-156-103 · DE-156-100 · DE-107-6 · DE-108-3 · 123 MIXED BED FEED PUMP · DE-107-3

PI 1176 · DE-156-102 · DE-156-99 · DE-107-5 · DE-108-2 · 122 MIXED BED FEED PUMP · DE-107-2

DE-156-137 · CV 39703 · PT 1266 · DE-156-107 · DE-156-117 · TO MIXED BEDS LR-39241-8

DE-158-131 · DE-160-5 · ¼" · TO SAMPLING SYSTEM LR-39241-4

CDI PRODUCT FROM 121 CDI UNIT LR-39241-6

DE-160-4 · DE-156-106 · DE-156-116 · PT 1264

RO PREMEATE FROM 123 RO LR-39241-5

DEIONIZED WATER FROM CONDENSATE TRANSFER PUMPS LR-39241-6

DE-158-73 · PI 1173 · DE-158-62 · DE-158-58 · DE-158-59 · CIP · CV 39753 · CV 39752

PT 1260 · DE-156-80 · DE-158-74 · CV 39780

123 CDI POWER PANEL 70281

123 CDI PLC PANEL 70280

FROM INSTRUMENT AIR SYSTEM LR-39244 · SA-64-24 · SA-64-13

*1 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-80
*2 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-83
*3 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-86
*4 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-89
*5 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-92
*6 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-95
*7 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-98
*8 DILUTE SIDE CONCENTRATE SIDE	3"	DE-158-101

DE-156-83 · DE-156-86 · FT 1214 · FE 1214 · CCT 1189 · CCE 1189 · PT 1262 · DE-158-69 · DE-158-65 · DE-141-9 · DE-149-25 · CIP

PT 1261 · DE-158-77 · DE-156-89 · DE-144-3 · DE-149-28 · CIP

CV 39754 · CV 39755 · CV 39756 · CV 39757 · CV 39758

DE-149-17 · DE-149-20 · DE-155-3 · DE-141-15

CONCENTRATE/DIVERT TO VACUUM DEGASIFIERS LR-39241-6

TO DRAIN HEADER LR-39241-8

CONCENTRATED CAUSTIC FROM TOTE · DE-156-90 · DE-156-92 · ½" · 121 CIP CAUSTIC PUMP

CONCENTRATED ACID FROM TOTE · DE-156-91 · DE-156-93 · ½" · 121 CIP ACID PUMP

CLEANING SOLUTION RETURN/TANK FILL WATER FROM RO OR CDI · DE-152-5 · DE-145-2 · DE-145-1

CLEANING SOLUTION RETURN FROM RO OR CDI · DE-149-32 · DE-149-29

121 CLEAN-IN-PLACE POWER/PLC PANEL 70282

121 CIP TANK · LS 1221 · HS · MS · TI 1268 · TW 1268 · PT 1263 · DE-158-104 · DE-158-102 · DE-141-10 · PHE 1194 · PHT 1194 · 121 CIP PUMP · DE-152-6 · DE-148-17 · DE-156-95

DE-156-94 · PI 1174 · DE-158-105 · DE-156-96 · DE-156-97 · DE-158-103 · FT 1215 · FE 1215 · DE-149-30 · SPENT CLEANING SOLUTION TO PLANT WASTE · DE-149-31 · CLEANING SOLUTION TO RO OR CDI FEED

DRAIN

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

DE - WATER TREATMENT
SA - STATION AND INSTRUMENT AIR

REFERENCE DWG. 39241-7 REV. 76

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

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM - WATER TREATMENT
CDI/CIP

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

SCALE: NONE · REV Ø

LR-39241-7

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

LR-39241-7.DGN MSP GENERATION CAD

D-047

LR-39241-7