REVISIONS
Ø DRAWN BY: JLB DATE: 3-27-07 PREPARED BY: RAB DATE: 3-27-07 REVIEWED BY: SRM DATE: 3-27-07
1 ENLARGE BOUNDARY FLAGS DRAWN BY: JLB DATE: 7-11-07 PREPARED BY: WJI DATE: 7-11-07 REVIEWED BY: SRM DATE: 7-23-07

FROM INSTRUMENT AIR SYSTEM LR-39244
SA-64-20
SA-64-9
D
SA DE
122 RO PLC PANEL 70272
122 RO POWER PANEL 70273
TO 121 RO UNIT LR-39241-6
DE-156-61
PT 1252
DE-156-64
DE-158-126
PS 1233
PS 1232
PI 1233
PI 1232
PI 1169
DE-158-26
DE-156-55
DE-158-5
DE-158-125
DE-158-8
DE-158-11
CV 39774
DE-148-12
DE-156-58
DE-148-15
DE-141-2
122 RO BOOSTER PUMP
CCT 1183
CCE 1183
PT 1242
PI 1242
DE-158-127
DE-158-14
DE-149-5
CIP 1ST STAGE INLET
CIP 2ND STAGE INLET 1ST STAGE OUTLET
DE-149-8
CIP 3RD STAGE INLET 2ND STAGE OUTLET
DE-158-2
CV 39730
DEIONIZED WATER FROM CONDENSATE TRANSFER PUMPS LR-39241-6 D-1
DE-157-42
*1
*2
*3
*4
*5
*6
*7
DE-158-38
DE-158-41
DE-158-44
DE-158-47
DE-158-50
DE-158-53
DE-158-56
DE-158-17
PT 1243
PI 1243
DE-158-35
DE-158-136
PT 1244
PI 1244
DE-158-137
DE-141-5
DE-156-73
FT 1208
DE-156-76
DE-158-29
PI 1234
DE-158-23
CCT 1184
CCE 1184
FE 1208
DE-146-2
DE-152-3
CIP PRODUCT FILL
CV 39732
DE-149-2
CV 39733
122 RO PREMEATE TO 122 CDI LR-39241-7
TO DRAIN HEADER LR-39241-8
DE-156-140
DE-158-128
PS 1234
FROM D
CV 39775
DE-156-67
DE-156-70
FT 1209
CV 39731
FE 1209
DE-149-11
DE-143-5
TO DRAIN HEADER LR-39241-8
PI 1245
PT 1245
DE-158-32
DE-158-20
CIP 3RD STAGE REJECT OUTLET
122 REVERSE OSMOSIS SYSTEM

FROM INSTRUMENT AIR SYSTEM LR-39244
SA-64-21
SA-64-10
C
SA DE
123 RO PLC PANEL 70274
123 RO POWER PANEL 70275
FROM DEGASIFIER PUMPS LR-39241-4
DE-160-2
DE-156-62
PT 1253
DE-156-65
DE-158-130
PS 1236
PS 1235
PI 1236
PI 1235
PI 1170
DE-158-27
DE-156-56
DE-158-6
DE-158-129
DE-158-9
DE-158-12
CV 39776
DE-148-13
DE-156-59
DE-148-16
DE-141-3
123 RO BOOSTER PUMP
CCT 1185
CCE 1185
PT 1246
PI 1246
DE-158-131
DE-158-15
DE-149-6
CIP 1ST STAGE INLET
CIP 2ND STAGE INLET 1ST STAGE OUTLET
DE-149-9
CIP 3RD STAGE INLET 2ND STAGE OUTLET
DE-158-3
CV 39734
DEIONIZED WATER FROM CONDENSATE TRANSFER PUMPS LR-39241-6 D-1
*1
*2
*3
*4
*5
*6
*7
DE-158-39
DE-158-42
DE-158-45
DE-158-48
DE-158-51
DE-158-54
DE-158-57
DE-158-18
PT 1247
PI 1247
DE-158-36
DE-158-138
PT 1248
PI 1248
DE-158-139
DE-141-6
DE-156-74
FT 1210
DE-156-77
DE-158-30
PI 1237
DE-158-24
CCT 1186
CCE 1186
FE 1210
DE-146-3
DE-152-4
CIP PRODUCT FILL
CV 39736
DE-149-3
CV 39737
123 RO PREMEATE TO 123 CDI LR-39241-7
TO DRAIN HEADER LR-39241-8
DE-156-141
DE-158-140
PS 1237
FROM C
CV 39777
DE-156-68
DE-156-71
FT 1211
CV 39735
FE 1211
DE-149-12
DE-143-6
TO DRAIN HEADER LR-39241-8
PI 1249
PT 1249
DE-158-33
DE-158-21
CIP 3RD STAGE REJECT OUTLET
123 REVERSE OSMOSIS SYSTEM

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. 39241-5 REV. 77

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		400	100	1	7410
CHECKED						4400		
PROJECT NO.		GROUP	1	2	3	4	5	CL 6
APP'D & CERT.								
FILMED								

LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM - WATER TREATMENT
REVERSE OSMOSIS

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

SCALE NONE | REV 1

LR-39241-5

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

LR-39241-5.DGN MSP GENERATION CAD

D-045