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

FROM INSTRUMENT AIR SYSTEM LR-39244
SA-64-19
SA-64-8
B
SA DE
121 RO PLC PANEL 70270
121 RO POWER PANEL 70271
FROM DEGASIFIER PUMPS LR-39241-4
DE-148-11
DE-156-60
PT 1251
DE-156-63
DE-158-122
PS 1229
PS 1230
PI 1168
DE-158-25
DE-156-54
DE-158-4
DE-156-57
DE-158-121
DE-158-7
PI 1229
PI 1230
DE-158-10
DE-148-14
121 RO BOOSTER PUMP
DE-141-1
CV 39772
CCT 1181
CCE 1181
PT 1238
PI 1238
DE-158-123
DE-158-13
DE-149-4
CIP 1ST STAGE INLET
*1 R F P
*2 R F P
*3 R F P
*4 R F P
DE-158-37
DE-158-40
DE-158-43
DE-158-46
DE-158-16
PT 1239
PI 1239
DE-158-34
DE-141-4
DE-156-72
FT 1206
DE-156-75
FE 1206
DE-146-1
DE-158-28
DE-158-22
PI 1231
CCT 1182
CCE 1182
DE-152-2
CIP PRODUCT FILL
CV 39728
DE-149-1
CV 39729
DE-156-139
DE-158-124
PS 1231
TO DRAIN HEADER LR-39241-8
CIP 2ND STAGE INLET 1ST STAGE OUTLET
DE-149-7
*5 R F P
*6 R F P
DE-158-49
DE-158-52
DE-158-134
PT 1240
PI 1240
DE-158-135
CV 39726
CIP 3RD STAGE INLET 2ND STAGE OUTLET
DE-158-1
*7 R F P
DE-158-55
PT 1241
PI 1241
DE-158-31
DE-158-19
FROM B
CV 39773
DE-156-66
DE-156-69
FT 1207
CV 39727
FE 1207
DE-149-10
CIP 3RD STAGE REJECT OUTLET
DE-143-4
TO DRAIN HEADER LR-39241-8
TO 122,123 RO UNITS LR-39241-5
TO 122,123 CDI UNITS LR-39241-7
121 REVERSE OSMOSIS SYSTEM
DEIONIZED WATER FROM CONCENTRATE TRANSFER PUMPS LR-39220
CV 39738
DE-158-66
PI 1171
DE-158-60
DE-149-13
CV 39739
DE-149-21
CIP
FROM INSTRUMENT AIR SYSTEM LR-39244
SA-64-11
SA-64-22
SA DE
121 CDI PLC PANEL 70276
121 CDI POWER PANEL 70277
PT 1254
DE-156-78
DE-158-70
CV 39778
*1 DILUTE SIDE CONCENTRATE SIDE
*2 DILUTE SIDE CONCENTRATE SIDE
*3 DILUTE SIDE CONCENTRATE SIDE
*4 DILUTE SIDE CONCENTRATE SIDE
*5 DILUTE SIDE CONCENTRATE SIDE
*6 DILUTE SIDE CONCENTRATE SIDE
*7 DILUTE SIDE CONCENTRATE SIDE
*8 DILUTE SIDE CONCENTRATE SIDE
3"
DE-158-78
DE-158-81
DE-158-84
DE-158-87
DE-158-90
DE-158-93
DE-158-96
DE-158-99
121 CONTINUOUS DEIONIZATION SYSTEM
DE-156-81
DE-156-84
FT 1212
FE 1212
CCT 1187
CCE 1187
PT 1256
DE-158-67
DE-158-63
DE-141-7
DE-149-23
CIP
CV 39740
CV 39741
CV 39742
DE-149-15
DE-149-18
TEMPORARY WATER CONNECTION
DE-149-38
DE-160-3
121 CDI PRODUCT TO MIXED BED FEED PUMPS LR-39241-7
CONCENTRATE/DIVERT TO VACUUM DEGASIFIERS LR-39241-4
RINSE RECYCLE FROM MIXED BEDS LR-39241-8
CONCENTRATE/DIVERT FROM 123 CDI UNIT LR-39241-7
CONCENTRATE/DIVERT FROM 122 CDI UNIT LR-39241-7
4"
PT 1255
DE-158-75
DE-156-87
DE-144-1
DE-149-26
CIP
CV 39743
CV 39744
DE-155-1
DE-141-13
TO DRAIN HEADER LR-39241-8

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. 39241-6 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						
CHECKED							
PROJECT NO.							
APP'D & CERT.							
FILMED							
SIGNIFICANT NO.	8630		400	100	4400	1	7410
GROUP	1	2	3	4	5	CL	8

LICENSE RENEWAL BØUNDARY DWG
FLOW DIAGRAM WATER TREATMENT
REVERSE OSMOSIS/CDI

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

SCALE NONE | REV Ø

LR-39241-6

$$USERNAME$$
$$$$$$SYTIME$$$$$$$$$$SYDATE$$$$$$
$$$$$$$$$$DESIGNF IL$$$$$$$$$$

LR-39241-6.DGN KSP GENERATION CAD

12

D-046

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