REVISIONS
0
DRAWN BY: JLB DATE: 3-8-07 PREPARED BY: WJO DATE: 3-8-07 REVIEWED BY: SRM DATE: 3-12-07

TO COND. HDR. FOR CONT. SEE LR-39221 & LR-39253

DPA-58901-0107 — 18" — MV 3 — CP-3-2 — CP-11-2 — 24"

FA-58901-0106 — FQI-5890001 — CP-5-4 — MV-4A — FQI-58907 — R/P

TU-58903 R/P — PDIC 5890015 — S/CV-35040 — CV-39040 — CP-3-3

MV-24A — FT-5895001 — FIC-5890006 — FE-27370 — MV-23A — FAL-58901-0103 — T/U-58904 — PDAH-58901-0105 — PDS-5875004 — S/CV 35210 — TO SV-37210 — CV-39061

CP-77-4 — MV-21A — MV-20A — CV-39110 — CV-39019 — CV-39060

CE-25024 SEE LR-39253-2 DETAIL "A" — CP-2-3 — TO DRAIN MV-14A — PDT-5878001

III/3 #11 F/D HOLDING PUMP 750 GPM 30'TDH, 10HP, 460V, 3PH, 60 HZ.

MV-18A — CP-77-1 — PI-5875005 — CP-78-1 — SEE LR-39253-2 DET. "A" — #11 CONDENSATE FILTER/ DEMINERALIZER ARP-14-76-1500 III/3 — CV-39018

PI-18740 — MV-19A — FS-18387 — FAL-58901-0104 — TO PDR PDT-5875006

CP-9-1 — CK-5A — CV-39013 — CV-39014 — CV-39016 — MV-15 — PI-5875007 — MV-17A — CV-39011

5500 GPM — CV-39015

FROM CONDENSATE HDR. FOR CONT. SEE LR-39253 & LR-39221 — MV 2 — CP-3-1 — MV-7A — CP-5-1 — CP-11-1 — CP-77-7 — SX — TO SAMPLE SINK SEE LR-39253-2 DETAIL "A" — CV-39012

FROM B.W. SUPPLY PUMPS #11 & #12 — 480 GPM 25 TO 100 PSIG FOR CONT. SEE LR-39253 — PI-18709 — MV-31 — FE-27263 — FCV-4B — CV-39041 — FI-5878003 — MV-32 — SUPPLIED BY CUSTOMER — CV-39042 — BACKWASH WATER @ 50 PSIG 60°F, 25 G.P.M.

FIC-5890004 — FY-5890007 — FA-58901-0208 — CP-44-5 — FQI-5890020 — CP-5-5 — MV-4B — FQ 58908 — FR-5890003 — MV-24B — FE-27390 — MV-23B — FT-58 — FY-58915 — FIC-5890018 — T/U-58905 — S/CV-35220 — TO SV-37220 — CV-39071

PDAH-58901-0205 — PDS-5876004 — FAL-58901-0203 — CV-39120 — CP-77-5 — MV-21B — MV-20B — CE-25025 SEE LR-39253-2 DETAIL "A" — CP-2-4 — MV-14B — TO DRAIN — STRAINER (TYP.) — AND L&N DWG *C-PID-3700-224 (X-HIAW-2000-81) (TYP.)

CV-39029 — CV-39070 — CP-77-2 — CP-78-2 — MV-18B — PI-5876005 — PDAH-58901-0101 — PDAH-58901-0201 — PDAH-58901-0301 — PDS-5876006 — #12 CONDENSATE FILTER/ DEMINERALIZER ARP-14-76-1500

III/3 #12 F/D HOLDING PUMP 750 GPM 30'TDH, 10 HP, 460V, 3PH, 60HZ — SEE LR-39253-2 DET. "A" — PDT-5876006 — PI-18750 — MV-19B — FS-18388 — FAL-58901-0204 — CK-5B — CP-9-2 — CV-39023 — CV-39024 — CV-39026 — CV-39021

5500 GPM — CV-39025

FAH-58901-0308 — FQI-5890021 — FQ 58909 — FT-5877001 — MV-4C — FE-27390 — MV-23C — FIC-5890019 — T/U-58906 — S/CV-35230 — TO SV-37230 — CV-39081

PDAH-58901-0305 — PDS-5877004 — FAL-58901-0303 — CV-39130 — CV-39039 — CV-39080

CP-77-4 — MV-21C — MV-20C — CE-25026 SEE LR-39253-2 DETAIL "A" — CP-2-5 — MV-14C — TO DRAIN

III/3 #13 F/D HOLDING PUMP 750 GPM 30'TDH, 10HP, 460V, 3PH, 60 HZ

CP-77-3 — CP-78-3 — MV-18C — PI-5877005 — SEE LR-39253-2 DETAIL "A" — #13 CONDENSATE FILTER/ DEMINERALIZER ARP-14-76-1500 III/3 — CV-39038

PI-18760 — FS-18389 — FAL-58901-0304 — TO PDR PDT-5877006 — PI-5877007 — CV-39028 — CV-39033 — CV-39034 — CK-5C — CP-9-3 — CV-39031

5500GPM — MV-7C — CP-5-3 — CV-39035 — CV-39032 — CP-43-12

FROM FCV-4 — FCV-4 — FY-41 — R I/P — S/A 80 PSI — ZS — TYP. FCV-4 VALVE

FAL-58901-0108 — SUPPLIED BY CUSTOMER — FIS-5878004 — PI-18778 — CP-7-2 — CK-14 — MV-34 — MV 35 — MV-30 — FE-27265 — UNDRIED OIL FREE AIR 30PSIG MIN., 1985CFM MAX. — FROM B.W. AIR COMPRESSORS FOR CONT. SEE LR-39253

24" CONDENSATE HDR.

DOME DRAIN HDR.

PRECOAT SUPPLY

FILTER DRAIN HDR.

DRAIN HEADER

PRECOAT RETURN & FILL HEADER

TO BACK WASH RECEIVING TANK FOR CONT. SEE LR-39253

CV-39043 — SV-37143 — 20 P.S.I. INST. AIR — SV-37145 — SV-37148 — DUST EVACUATOR NO. 11 1/3 H.P., 480V, 3 PHASE, 60 HZ.

CP-10-1 — MV-8 — CP-7-1 — CK-8 — #11 SLURRY TANK MIXER 1½ H.P. MIXER MOTOR 460V., 3 PHASE, 60 HZ. — MV-9 — CP-1-1 — CV-39045 — MV-10 — CP-10-2 — CP-46-6 — 1½-CP-76 — 1½-CP-77

#11 RECIRCULATION TANK MIXER 2 H.P. MIXER MOTOR 460V., 3 PHASE, 60HZ. — MV-11 — CP-10-3

CP-4-1 — MV-6 — CP-6-1 — CK-6 — PI-18705 — MV-29 — PI-18707 — PI-18774 — CV-39046 — MV-26 — PI-18772 — III/3 #11 PRECOAT PUMP GPM 40'TDH 30 HP — MV-28 2250 — MV-5 — CP-8-1 — #11 RECIRCULATION TANK 8'-0" DIA x 7'-0" HIGH 2250 GAL. III/3 — CP-2-2 — MV-12 — 4" TO DRAIN SEE LR-39253 — CP-79-1 — CV-39044 — LS-18776 — LA-58901-0308 — 1½-CP-78

#11 SLURRY TANK 5'-0" DIA x 4'-0" HIGH 500 GALS III/3 — MV-13 — CP-2-1 — TO DRAIN FOR CONT. SEE LR-39253

NOTE:

ON ELECTRICAL OR AIR FAILURE PDCV 30, CV-51 FAIL OPEN. CV-7, CV4 FAIL AS IS

PIPING IN DIRECTION OF ARROWS BY OTHERS

R/P REAR OF PANEL

R RACK MOUNTED

P PANEL MOUNTED

⊕ ALL TRANSMITTERS HAVE 5 VALVE MANIFOLDS

⬡ INDICATES POINT OF INTERFACE WITH DWG: NF-39253

III/3 DENOTES QUALITY ASSURANCE DESIGN CLASS

ALL PIPING TO BE Q.A. TYPE III

VALVE LEGEND:

- PLUG VALVE
- BUTTERFLY VALVE
- EDUCTOR

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

CD - CONDENSATE
SA - STATION AND INSTRUMENT AIR

DELAVAL TURBINE INC. DWG# :FD-1000 DW
REFERENCE DWG. X-HIAW-2000-9 REV. C

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			½	M430	1	7410
GROUP	1	2	3	4	5	CL	6

LICENSE RENEWAL BOUNDARY DWG
PIPING & INSTRUMENTATION DIAGRAM
CONDENSATE FILTER DEMINERALIZER

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

SCALE: — REV Ø

LR-XH-2000-9

$$USERNAME$$ $$$$$$SYTIME$$$$$$$$$$$$SYDATE$$$$$$ $$$$$$$$$$DESIGNFIL$$$$$$$$$$

LR-XH-2000-9.DGN [NSP GENERATION CAD]

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