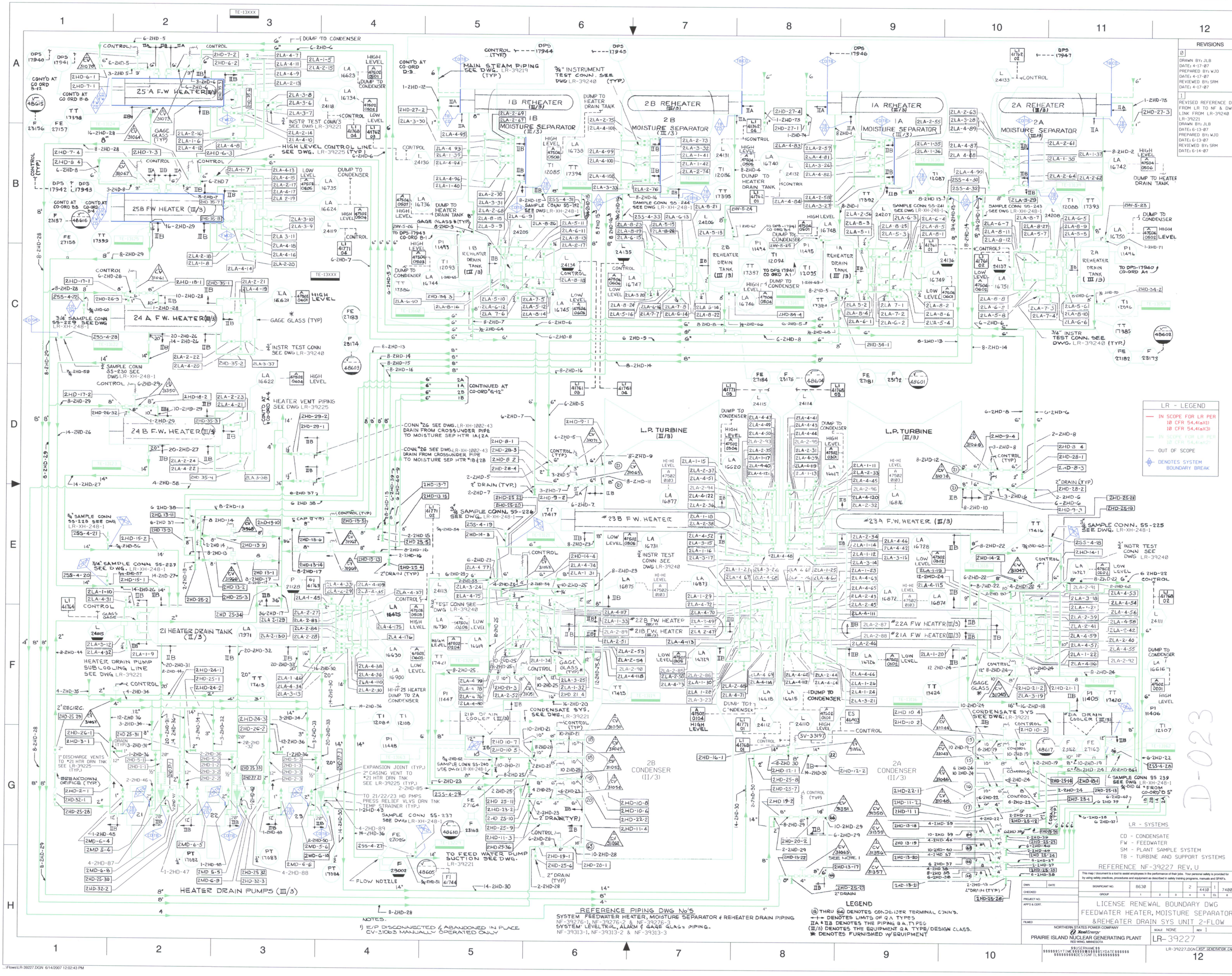
REVISIONS
0
DRAWN BY: JLB
DATE: 4-17-07
PREPARED BY: WJO
DATE: 4-17-07
REVIEWED BY: SRM
DATE: 4-17-07
1
REVISED REFERENCE DWGS FROM LR TO NF & DWG LINK FROM LR-39240 TO LR-39221
DRAWN BY: JLB
DATE: 6-13-07
PREPARED BY: WJO
DATE: 6-13-07
REVIEWED BY: SRM
DATE: 6-14-07
LR - LEGEND
IN SCOPE FOR LR PER 10 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
25A F.W. HEATER (III/3)
25B FW HEATER (III/3)
24 A F.W. HEATER (III/3)
24 B F.W. HEATER (III/3)
1B REHEATER (III/3)
1B MOISTURE SEPARATOR (III/3)
2B REHEATER (III/3)
2B MOISTURE SEPARATOR (III/3)
1A REHEATER (III/3)
1A MOISTURE SEPARATOR (III/3)
2A REHEATER (III/3)
2A MOISTURE SEPARATOR (III/3)
L.P. TURBINE (III/3)
L.P. TURBINE (III/3)
#23B F.W. HEATER
#23A F.W. HEATER (III/3)
#22B FW HEATER (III/3)
#22A FW HEATER (III/3)
#21B FW. HEATER (III/3)
#21A FW HEATER (III/3)
21 HEATER DRAIN TANK (II/3)
HEATER DRAIN PUMPS (III/3)
HEATER DRAIN PUMP SUBCOOLING LINE SEE DWG LR-39221
1B REHEATER DRAIN TANK (III/3)
2B REHEATER DRAIN TANK (III/3)
1A REHEATER DRAIN TANK (III/3)
2A REHEATER DRAIN TANK (III/3)
2B CONDENSER (II/3)
2A CONDENSER (II/3)
21B DRAIN COOLER (II/3)
21A DRAIN COOLER (II/3)
CONDENSATE SYS SEE DWG. LR-39221
MAIN STEAM PIPING SEE DWG. LR-39219 (TYP)
HIGH LEVEL CONTROL LINE SEE DWG. LR-39225 (TYP)
¾" INSTRUMENT TEST CONN. SEE DWG LR-39240 (TYP)
¾" INSTR TEST CONN SEE DWG LR-39240
¾" SAMPLE CONN. SS-225 SEE DWG. LR-XH-248-1
¾" SAMPLE CONN SS-226 SEE DWG. LR-XH-248-1
¾" SAMPLE CONN SS-227 SEE DWG. LR-XH-248-1
¾" SAMPLE CONN SS-228 SEE DWG LR-XH-248-1
¾" SAMPLE CONN SS-229 SEE DWG LR-XH-248-1
¾" SAMPLE CONN SS-230 SEE DWG LR-XH-248-1
SAMPLE CONN SS-237 SEE DWG LR-XH-248-1
SAMPLE CONN SS-239 SEE DWG LR-XH-248-1
SAMPLE CONN SS-240 SEE DWG LR-XH-248-1
SAMPLE CONN SS-241 SEE DWG LR-XH-248-1
SAMPLE CONN SS-243 SEE DWG LR-XH-248-1
HEATER VENT PIPING SEE DWG LR-39225
TO FEED WATER DUMP SUCTION SEE DWG. LR-39221
CONTINUED AT CO-ORD "E-12"
CONTD AT CO-ORD D-3
CONTD AT CO-ORD 5-12
CONTD AT CO-ORD B-8
CONTD AT CO-ORD B-6
CONTD AT CO-ORD B-5
CONTD AT CO-ORD B-4
CONTD AT CO-ORD B-3
CONTD AT CO-ORD B-2
CONTD AT CO-ORD B-1
TO DPS-17943 CO-ORD B-1
TO DPS-17941 CO-ORD B-1
TO DPS-17940 CO-ORD A-1
TO DPS-17940 CO-ORD A4
FROM CO-ORD "D 5"
CONN "26 SEE DWG. LR-XH-1002-43 DRAIN FROM CROSSUNDER PIPE TO MOISTURE SEP HTR "1A(2A
CONN "26 SEE DWG. LR-XH-1002-43 DRAIN FROM CROSSUNDER PIPE TO MOISTURE SEP HTR "1B & 2B
EXPANSION JOINT (TYP.) 2" CASING VENT TO #21 HTR DRN TNK SEE LR-39225 (TYP.)
1" DISCHARGE VENTS TO #21 HTR DRN TNK SEE LR-39225 (TYP.)
BREAKDOWN ORIFICE (TYP)
TO 21/22/23 HD PMPS PRESS RELIEF VLVS DRN TNK
TEMP STRAINER (TYP.)
FLOW NOZZLE
DUMP TO CONDENSER
DUMP TO HEATER DRAIN TANK
GAGE GLASS (TYP)
INSTR TEST CONN'S SEE DWG LR-39221
SAMPLE CONN SS-240 SEE DWG LR-XH-248-1
SAMPLE CONN SS-241 SEE DWG LR-XH-248-1
SAMPLE CONN SS-243 SEE DWG LR-XH-248-1
3/4" INSTR TEST CONN. SEE DWG. LR-39240 (TYP.)
REFERENCE PIPING DWG No's
SYSTEM FEEDWATER HEATER, MOISTURE SEPARATOR & REHEATER DRAIN PIPING
NF-39276-1, NF-39276-2 & NF-39276-3
SYSTEM LEVELTROL, ALARM & GAGE GLASS PIPING.
NF-39313-1, NF-39313-2 & NF-39313-3
LEGEND
(15) THRU (66) DENOTES CONDENSER TERMINAL CONN'S.
DENOTES LIMITS OF QA TYPES
IIA & IIB DENOTES THE PIPING QA TYPES
(II/3) DENOTES THE EQUIPMENT QA TYPE/DESIGN CLASS.
* DENOTES FURNISHED W/EQUIPMENT
NOTES:
1) E/P DISCONNECTED & ABANDONED IN PLACE CV-31063 MANUALLY OPERATED ONLY
LR - SYSTEMS
CD - CONDENSATE
FW - FEEDWATER
SM - PLANT SAMPLE SYSTEM
TB - TURBINE AND SUPPORT SYSTEMS
REFERENCE NF-39227 REV. U
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 SPAFs.
DWN
CHECKED
PROJECT NO.
APP'D & CERT.
FILMED
DATE
SIGNIFICANT NO. 8630
GROUP
NORTHERN STATES POWER COMPANY
XcelEnergy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
LICENSE RENEWAL BOUNDARY DWG
FEEDWATER HEATER, MOISTURE SEPARATOR &REHEATER DRAIN SYS UNIT 2-FLOW
SCALE NONE
REV 1
LR-39227
LR-39227.DGN
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A-023
LR-39227