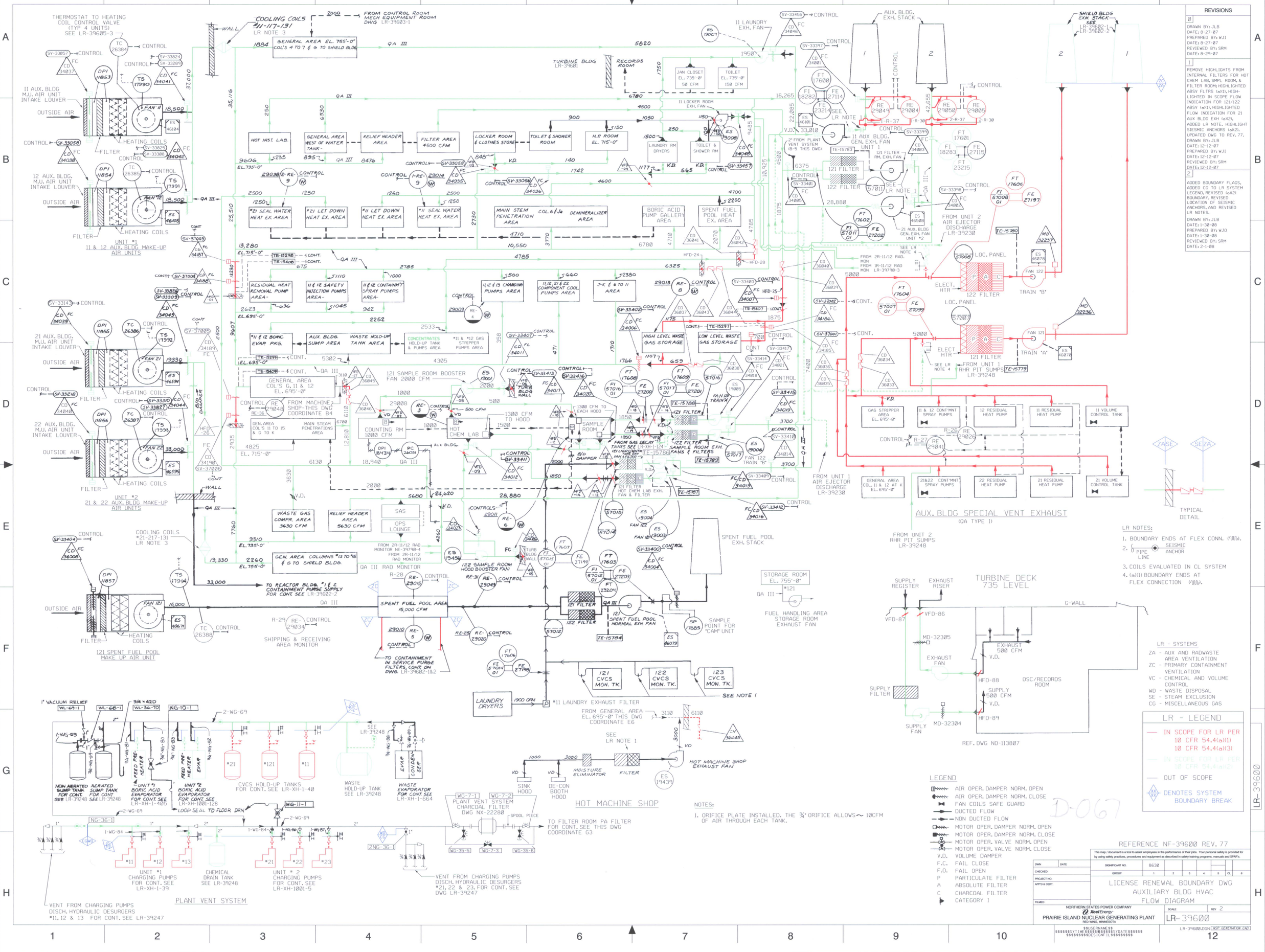
THERMOSTAT TO HEATING COIL CONTROL VALVE (TYP 4 UNITS) SEE LR-39605-3
COOLING COILS 21-117-131 LR NOTE 3
FROM CONTROL ROOM MECH EQUIPMENT ROOM DWG LR-39603-1
GENERAL AREA EL. 755'-0" COL'S 4 TO 7 & G TO SHIELD BLDG
TURBINE BLDG LR-39601
RECORDS ROOM
11 LAUNDRY EXH. FAN
AUX. BLDG. EXH. STACK
SHIELD BLDG EXH. STACK SEE LR-39602-1 LR-39602-2
11 AUX. BLDG. M.U. AIR UNIT INTAKE LOUVER
OUTSIDE AIR
HEATING COILS
FILTER
FAN 11 18,500
12 AUX. BLDG. M.U. AIR UNIT INTAKE LOUVER
FAN 12 18,500
UNIT #1 11 & 12 AUX. BLDG. MAKE-UP AIR UNITS
HOT INST. LAB.
GENERAL AREA WEST OF WATER TANK
RELIEF HEADER AREA
FILTER AREA 4500 CFM
LOCKER ROOM & CLOTHES STORE
TOILET & SHOWER ROOM
H.P. ROOM EL. 715'-0"
JAN CLOSET EL. 735'-0" 50 CFM
TOILET EL. 735'-0" 150 CFM
11 LOCKER ROOM EXH. FAN
LAUNDRY RM DRYERS
TOILET & SHOWER RM
2" FROM PLANT VENT SYSTEM (B-5 THIS DWG)
11 AUX. BLDG. GEN. EXH. FAN UNIT 1
121 FILTER RM. EXH. FAN
121 FILTER
122 FILTER
SEE LR NOTE 1
21 AUX. BLDG GEN. EXH. FAN UNIT #2
FROM UNIT 2 AIR EJECTOR DISCHARGE LR-39230
SEE LR NOTE 4
LOC. PANEL
ELECT. HTR
122 FILTER
FAN 122 TRAIN "B"
121 FILTER
FAN 121 TRAIN "A"
FROM UNIT 1 RHR PIT SUMPS LR-39248
GAS STRIPPER AREA EL. 695'-0"
11 & 12 CONT'MNT SPRAY PUMPS
12 RESIDUAL HEAT PUMP
11 RESIDUAL HEAT PUMP
11 VOLUME CONTROL TANK
GENERAL AREA COL. 11 & 12 AT K EL. 695'-0"
21&22 CONT'MNT SPRAY PUMPS
22 RESIDUAL HEAT PUMP
21 RESIDUAL HEAT PUMP
21 VOLUME CONTROL TANK
FROM UNIT 1 AIR EJECTOR DISCHARGE LR-39230
FROM UNIT 2 RHR PIT SUMPS LR-39248
AUX. BLDG SPECIAL VENT EXHAUST (QA TYPE I)
TYPICAL DETAIL
ZA&E
SE&ZA
21 AUX. BLDG. M.U. AIR UNIT INTAKE LOUVER
FAN 21 19,330
22 AUX. BLDG. M.U. AIR UNIT INTAKE LOUVER
FAN 22 33,000
UNIT #2 21 & 22 AUX. BLDG. MAKE-UP AIR UNITS
GENERAL AREA COL'S G, 11 & 12 EL. 695'-0"
FROM MACHINE SHOP-THIS DWG COORDINATE B4
GEN. AREA COL'S 11 TO 15 & G TO K
MAIN STEAM PENETRATIONS AREA
"11 & "12 BORIC EVAP. PKG.
AUX. BLDG. SUMP AREA
WASTE HOLD-UP TANK AREA
CONCENTRATES HOLD-UP TANK & PUMPS AREA
"11 & "12 GAS STRIPPER PUMPS AREA
"11 SEAL WATER HEAT EX. AREA
"21 SEAL WATER HEAT EX. AREA
"21 LET DOWN HEAT EX. AREA
"11 LET DOWN HEAT EX. AREA
MAIN STEM PENETRATION AREA COL 6 & Ja
DEMINERALIZER AREA
BORIC ACID PUMP GALLERY AREA
SPENT FUEL POOL HEAT EX. AREA
"11, 12 & 13 CHARGING PUMPS AREA
"11, 21 & 22 COMPONENT COOL PUMPS AREA
J-K & 6 TO 11 AREA
HIGH LEVEL WASTE GAS STORAGE
LOW LEVEL WASTE GAS STORAGE
"11 & 12 CONTAINMENT SPRAY PUMPS AREA
"11 & 12 SAFETY INJECTION PUMPS AREA
"11 & 12 RESIDUAL HEAT REMOVAL PUMP AREA
121 SAMPLE ROOM BOOSTER FAN 2000 CFM
1300 CFM TO EACH HOOD
SAMPLE ROOM
COUNTING RM 1000 CFM
HOT CHEM LAB
121 FILTER HOT CHEM LAB EXH. FAN & FILTER
FROM GAS DECAY TANKS SEE LR-XH-1-124
121 FILTER SAMPLE ROOM EXH. FANS & FILTERS
FAN 121 TRAIN "A"
FAN 122 TRAIN "B"
WASTE GAS COMPR. AREA 3630 CFM
RELIEF HEADER AREA 5630 CFM
SAS
OPS LOUNGE
GEN. AREA COLUMNS "13 TO "15 & G TO SHIELD BLDG.
FROM 2R-11/12 RAD MONITOR NE-39790-4 FROM 2R-11/12 RAD MONITOR
QA III RAD MONITOR
TO REACTOR BLDG. "1 & 2 CONTAINMENT PURGE SUPPLY FOR CONT. SEE LR-39602-2
SPENT FUEL POOL AREA 15,000 CFM
121 SPENT FUEL POOL MAKE UP AIR UNIT
SHIPPING & RECEIVING AREA MONITOR
TO CONTAINMENT IN SERVICE PURGE FILTERS, CONT. ON DWG. LR-39602-1&2
121 SPENT FUEL POOL NORMAL EXH. FAN
SPENT FUEL POOL EXH. STACK
SAMPLE POINT FOR "CAM" UNIT
STORAGE ROOM EL. 755'-0" "121
FUEL HANDLING AREA STORAGE ROOM EXHAUST FAN
121 CVCS MON. TK.
122 CVCS MON. TK.
123 CVCS MON. TK.
SEE NOTE 1
LAUNDRY DRYERS 1900 CFM
"11 LAUNDRY EXHAUST FILTER
FROM GENERAL AREA EL. 695'-0" THIS DWG COORDINATE E6
SEE LR NOTE 1
MOISTURE ELIMINATOR
FILTER
HOT MACHINE SHOP EXHAUST FAN
SINK HOOD
DE-CON BOOTH HOOD
HOT MACHINE SHOP
NOTES:
1. ORIFICE PLATE INSTALLED. THE ¾" ORIFICE ALLOWS ~ 10CFM OF AIR THROUGH EACH TANK.
1" VACUUM RELIEF
NON AERATED SLUMP TANK FOR CONT. SEE LR-39248
AERATED SLUMP TANK FOR CONT. SEE LR-39248
"FEED PRE-HEATER
UNIT #1 BORIC ACID EVAPORATOR FOR CONT. SEE LR-XH-1-405
UNIT #2 BORIC ACID EVAPORATOR FOR CONT. SEE LR-XH-1001-128
"FEED PRE-HEATER EVAP.
"21
"121
"11
CVCS HOLD-UP TANKS FOR CONT. SEE LR-XH-1-40
WASTE HOLD-UP TANK SEE LR-39248
WASTE EVAPORATOR FOR CONT. SEE LR-XH-1-664
LOOP SEAL TO FLOOR DRN
PLANT VENT SYSTEM CHARCOAL FILTER DWG NX-22280
SPOOL PIECE
TO FILTER ROOM PA FILTER FOR CONT. SEE THIS DWG COORDINATE D3
"11 UNIT #1 CHARGING PUMPS FOR CONT. SEE LR-XH-1-39
CHEMICAL DRAIN TANK SEE LR-39248
"21 "22 "23 UNIT # 2 CHARGING PUMPS FOR CONT. SEE LR-XH-1001-5
VENT FROM CHARGING PUMPS DISCH. HYDRAULIC DESURGERS "11, 12 & 13 FOR CONT. SEE LR-39247
VENT FROM CHARGING PUMPS DISCH. HYDRAULIC DESURGERS "21, 22 & 23. FOR CONT. SEE DWG LR-39247
PLANT VENT SYSTEM
TURBINE DECK 735 LEVEL
SUPPLY REGISTER
EXHAUST RISER
G-WALL
EXHAUST FAN
EXHAUST 500 CFM
OSC/RECORDS ROOM
SUPPLY 500 CFM
SUPPLY FILTER
SUPPLY FAN
REF. DWG ND-113807
LR NOTES:
1. BOUNDARY ENDS AT FLEX CONN.
2. SEISMIC ANCHOR
3. COILS EVALUATED IN CL SYSTEM
4. (a)(1) BOUNDARY ENDS AT FLEX CONNECTION
LR - SYSTEMS
ZA - AUX AND RADWASTE AREA VENTILATION
ZC - PRIMARY CONTAINMENT VENTILATION
VC - CHEMICAL AND VOLUME CONTROL
WD - WASTE DISPOSAL
SE - STEAM EXCLUSION
CG - MISCELLANEOUS GAS
LR - LEGEND
IN SCOPE FOR LR PER 10 CFR 54.4(a)(1)
IN SCOPE FOR LR PER 10 CFR 54.4(a)(3)
OUT OF SCOPE
DENOTES SYSTEM BOUNDARY BREAK
LEGEND
AIR OPER. DAMPER NORM. OPEN
AIR OPER. DAMPER NORM. CLOSE
FAN COILS SAFE GUARD
DUCTED FLOW
NON DUCTED FLOW
MOTOR OPER. DAMPER NORM. OPEN
MOTOR OPER. DAMPER NORM. CLOSE
MOTOR OPER. VALVE NORM. OPEN
MOTOR OPER. VALVE NORM. CLOSE
V.D. VOLUME DAMPER
F.C. FAIL CLOSE
F.O. FAIL OPEN
P PARTICULATE FILTER
A ABSOLUTE FILTER
C CHARCOAL FILTER
CATEGORY I
REVISIONS
0 DRAWN BY: JLB DATE: 8-27-07 PREPARED BY: WJI DATE: 8-27-07 REVIED BY: SRM DATE: 8-29-07
1 REMOVE HIGHLIGHTS FROM INTERNAL FILTERS FOR HOT CHEM LAB, SMPL ROOM, & FILTER ROOM; HIGHLIGHTED ABSV FLTRS (aN1), HIGHLIGHTED FLOW INDICATION FOR 121/122 ABSV (aN1), HIGHLIGHTED FLOW INDICATION FOR 21 AUX BLDG EXH (aN2), ADDED LR NOTE. HIGHLIGHT SIESMIC ANCHORS (aN2), UPDATED DWG TO REV. 77. DRAWN BY: JLB DATE: 12-12-07 PREPARED BY: WJI DATE: 12-12-07 REVIEWED BY: SRM DATE: 12-12-07
2 ADDED BOUNDARY FLAGS, ADDED CG TO LR SYSTEM LEGEND, REVISED (aN2) BOUNDARY, REVISED LOCATION OF SEISMIC ANCHORS, AND REVISED LR NOTES. DRAWN BY: JLB DATE: 1-30-08 PREPARED BY: WJO DATE: 1-30-08 REVIEWED BY: SRM DATE: 2-1-08
D-067
REFERENCE NF-39600 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
GROUP 1 2 3 4 5 CL 6
LICENSE RENEWAL BOUNDARY DWG AUXILIARY BLDG HVAC FLOW DIAGRAM
NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
SCALE REV 2
LR-39600
$$USERNAME$$ $$$$$$$SYTIME$$$$$$$$SYDATE$$$$$$ $$$$$$$$$$DESIGNFILE$$$$$$$$$
LR-39600.DGN KCP GENERATION CAD