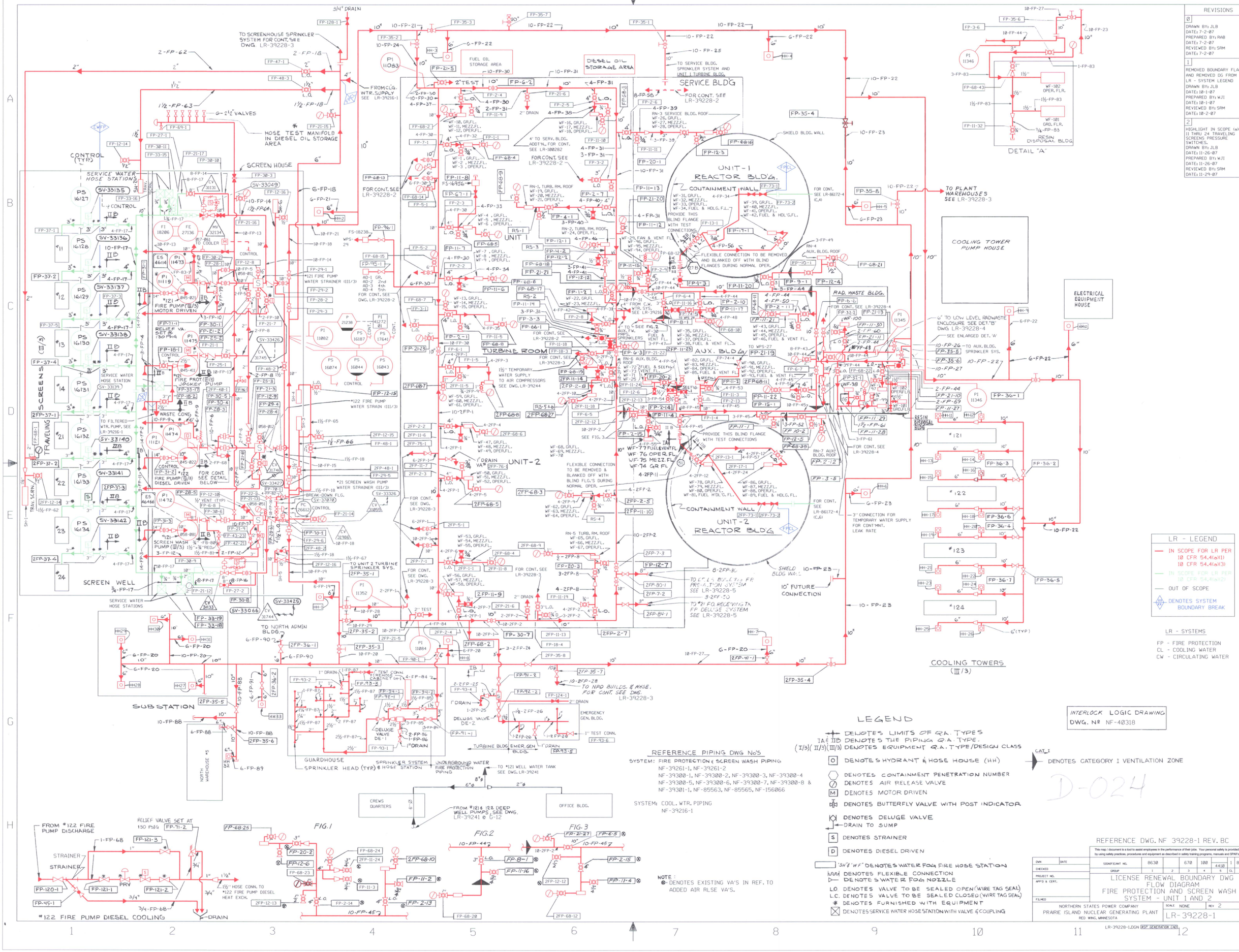
SCREEN HOUSE
SERVICE WATER HOSE STATIONS
CONTROL (TYP)
SCREENS TRAVELING
SCREEN WELL
SERVICE WATER HOSE STATIONS
SUB STATION
TO NORTH ADMIN BLDG.
GUARDHOUSE
NORTH WAREHOUSE #5
TO SCREENHOUSE SPRINKLER SYSTEM FOR CONT. SEE DWG. LR-39228-3
FROM CLG. WTR. SUPPLY SEE LR-39216-1
HOSE TEST MANIFOLD IN DIESEL OIL STORAGE AREA
6-2½" VALVES
FUEL OIL STORAGE AREA
DIESEL OIL STORAGE AREA
TURBINE ROOM
UNIT 1
UNIT-1 REACTOR BLDG.
CONTAINMENT WALL
UNIT-2 REACTOR BLDG
SERVICE BLDG
FOR CONT. SEE LR-39228-2
AUX. BLDG.
RAD. WASTE BLDG.
TO PLANT WAREHOUSES SEE LR-39228-3
COOLING TOWER PUMP HOUSE
ELECTRICAL EQUIPMENT HOUSE
RESIN DISPOSAL BLDG
DETAIL "A"
#121
#122
#123
#124
COOLING TOWERS (III/3)
TO NPD BUILDS. & MHSE. FOR CONT. SEE DWG. LR-39228-3
TO *121 WELL WATER TANK SEE DWG. LR-39241
FROM #121 & 122 DEEP WELL PUMPS, SEE DWG. LR-39241 @ G-12
CREWS QUARTERS
OFFICE BLDG.
SPRINKLER SYSTEM & HOSE STATION
UNDERGROUND WATER FIRE PROTECTION PIPING
SPRINKLER HEAD (TYP)
FIG. 1
FIG. 2
FIG. 3
#122 FIRE PUMP DIESEL COOLING
RELIEF VALVE SET AT 130 PSIG
STRAINER
PRV
DRAIN
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
FP - FIRE PROTECTION
CL - COOLING WATER
CW - CIRCULATING WATER
INTERLOCK LOGIC DRAWING DWG. Nº NF-40318
LEGEND
DENOTES LIMITS OF QA. TYPES
IA & IIB DENOTES THE PIPING QA. TYPE.
(I/3)(II/3)(III/3) DENOTES EQUIPMENT QA. TYPE/DESIGN CLASS
DENOTES HYDRANT & HOSE HOUSE (HH)
DENOTES CONTAINMENT PENETRATION NUMBER
DENOTES AIR RELEASE VALVE
DENOTES MOTOR DRIVEN
DENOTES BUTTERFLY VALVE WITH POST INDICATOR
DENOTES DELUGE VALVE
DRAIN TO SUMP
DENOTES STRAINER
DENOTES DIESEL DRIVEN
"SW" & "WF" DENOTES WATER FOG FIRE HOSE STATION
DENOTES FLEXIBLE CONNECTION
DENOTES WATER FOG NOZZLE
LO DENOTES VALVE TO BE SEALED OPEN (WIRE TAG SEAL)
LC DENOTES VALVE TO BE SEALED CLOSED (WIRE TAG SEAL)
DENOTES FURNISHED WITH EQUIPMENT
DENOTES SERVICE WATER HOSE STATION WITH VALVE & COUPLING
CAT I DENOTES CATEGORY I VENTILATION ZONE
REFERENCE PIPING DWG Nos
SYSTEM: FIRE PROTECTION & SCREEN WASH PIPING
NF-39261-1, NF-39261-2
NF-39300-1, NF-39300-2, NF-39300-3, NF-39300-4
NF-39300-5, NF-39300-6, NF-39300-7, NF-39300-8 & NF-39301-1, NF-85563, NF-85565, NF-156066
SYSTEM: COOL. WTR. PIPING
NF-39216-1
NOTE: ⊗ DENOTES EXISTING VA'S IN REF. TO ADDED AIR RLSE VA'S.
REVISIONS
0 DRAWN BY: JLB DATE: 7-2-07 PREPARED BY: RAB DATE: 7-2-07 REVIEWED BY: SRM DATE: 7-2-07
1 REMOVED BOUNDARY FLAG AND REMOVED DG FROM LR - SYSTEM LEGEND DRAWN BY: JLB DATE: 10-1-07 PREPARED BY: WJI DATE: 10-1-07 REVIEWED BY: SRM DATE: 10-2-07
2 HIGHLIGHT IN SCOPE (8X2) II THRU 24 TRAVELING SCREENS PRESSURE SWITCHES. DRAWN BY: JLB DATE: 11-26-07 PREPARED BY: WJI DATE: 11-26-07 REVIEWED BY: SRM DATE: 11-29-07
REFERENCE DWG. NF 39228-1 REV. BC
LICENSE RENEWAL BOUNDARY DWG FLOW DIAGRAM FIRE PROTECTION AND SCREEN WASH SYSTEM - UNIT 1 AND 2
NORTHERN STATES POWER COMPANY PRAIRIE ISLAND NUCLEAR GENERATING PLANT RED WING, MINNESOTA
SCALE NONE REV 2
LR-39228-1
LR-39228-1.DGN MSP GENERATION CAD
D-024