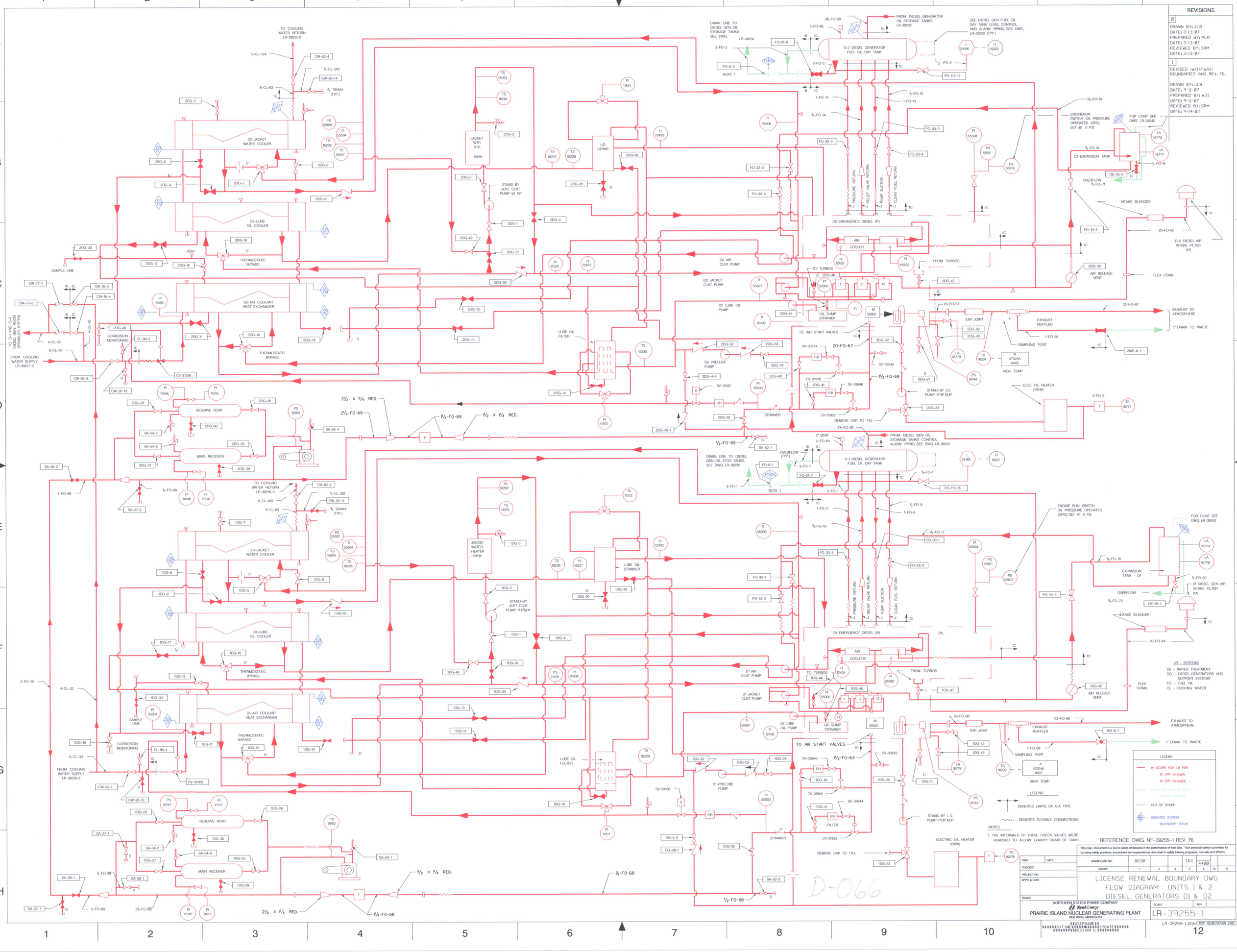
REVISIONS
Ø
DRAWN BY: JLB
DATE: 3-13-Ø7
PREPARED BY: MLR
DATE: 3-13-Ø7
REVIEWED BY: SRM
DATE: 3-13-Ø7
1
REVISED (α)(1)/(α)(2) BOUNDARIES AND REV. 76.
DRAWN BY: JLB
DATE: 9-11-Ø7
PREPARED BY: WJI
DATE: 9-11-Ø7
REVIEWED BY: SRM
DATE: 9-14-Ø7
D2-JACKET WATER COOLER
D2-LUBE OIL COOLER
D2-AIR COOLANT HEAT EXCHANGER
D2-EMERGENCY DIESEL (Ø1)
D2-EXPANSION TANK
D2 DIESEL AIR INTAKE FILTER (Ø1)
D2 AIR CLNT. PUMP
D2 JACKET CLNT. PUMP
D2 LUBE OIL PUMP
D2 PRELUBE PUMP
D1-JACKET WATER COOLER
D1-LUBE OIL COOLER
D1-AIR COOLANT HEAT EXCHANGER
D1-EMERGENCY DIESEL (Ø1)
D1 DIESEL GEN AIR INTAKE FILTER (Ø1)
D1 AIR CLNT. PUMP
D1 JACKET CLNT. PUMP
D1 LUBE OIL PUMP
D1-PRELUBE PUMP
RESERVE RCVR
MAIN RECEIVER
JACKET WTR HTR -15KW
JACKET WATER HEATER -15KW
STAND-BY JCKT CLNT PUMP-1½HP/½HP
LUBE OIL STRNR
LUBE OIL STRAINER
LUBE OIL FILTER
OIL SUMP STRAINER
STRAINER
FILTER
AIR COOLER
AIR COOLERS
TO TURBOS
FROM TURBOS
TO AIR START VALVES
STAND-BY L.O. PUMP-1½HP ½HP
ELEC. OIL HEATER (15KW)
ELECTRIC OIL HEATER (15KW)
EXP. JOINT
EXHAUST MUFFLER
SAMPLING PORT
HIGH TEMP
INTAKE SILENCER
AIR RELEASE VENT
FLEX CONN.
EXHAUST TO ATMOSPHERE
1" DRAIN TO WASTE
OVERFLOW
EXPANSION TANK - D1
ENGINE RUN SWITCH OIL PRESSURE OPERATED (OPS) SET AT 6 PSI
ENGINERUN SWITCH OIL PRESSURE OPERATED (OPS) SET @ 6 PSI
FOR CONT SEE DWG LR-39242
TO COOLING WATER RETURN LR-39216-3
FROM COOLING WATER SUPPLY LR-39217-2
TO D-1 AND D-2 DIESEL ROOM SPRINKLER SYSTEM
FROM DIESEL GENERATOR OIL STORAGE TANKS LR-39232
SEE DIESEL GEN. FUEL OIL DAY TANK LEVEL CONTROL AND ALARM PIPING, SEE DWG. LR-39232 (TYP.)
DRAIN LINE TO DIESEL GEN. OIL STORAGE TANKS SEE DWG.
DRAIN LINE TO DIESEL GEN. OIL STOR TANKS, SEE DWG. LR-39232
FROM DIESEL GEN. OIL STORAGE TANKS CONTROL ALARM PIPING, SEE DWG. LR-39232
CORROSION MONITORING
SAMPLE LINE
VENT
THERMOSTATIC BYPASS
NOTE 1
LR – SYSTEMS
DE – WATER TREATMENT
DG – DIESEL GENERATORS AND SUPPORT SYSTEMS
FO – FUEL OIL
CL – COOLING WATER
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
DENOTES LIMITS OF Q.A. TYPE
DENOTES FLEXIBLE CONNECTIONS
NOTES:
1. THE INTERNALS OF THESE CHECK VALVES WERE REMOVED TO ALLOW GRAVITY DRAIN OF TANK.
REFERENCE DWG. NF-39255-1 REV. 76
D-066
LICENSE RENEWAL BOUNDARY DWG
FLOW DIAGRAM UNITS 1 & 2
DIESEL GENERATORS D1 & D2
NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
LR-39255-1
LR-39255-1.DGN
XSP GENERATION CAD