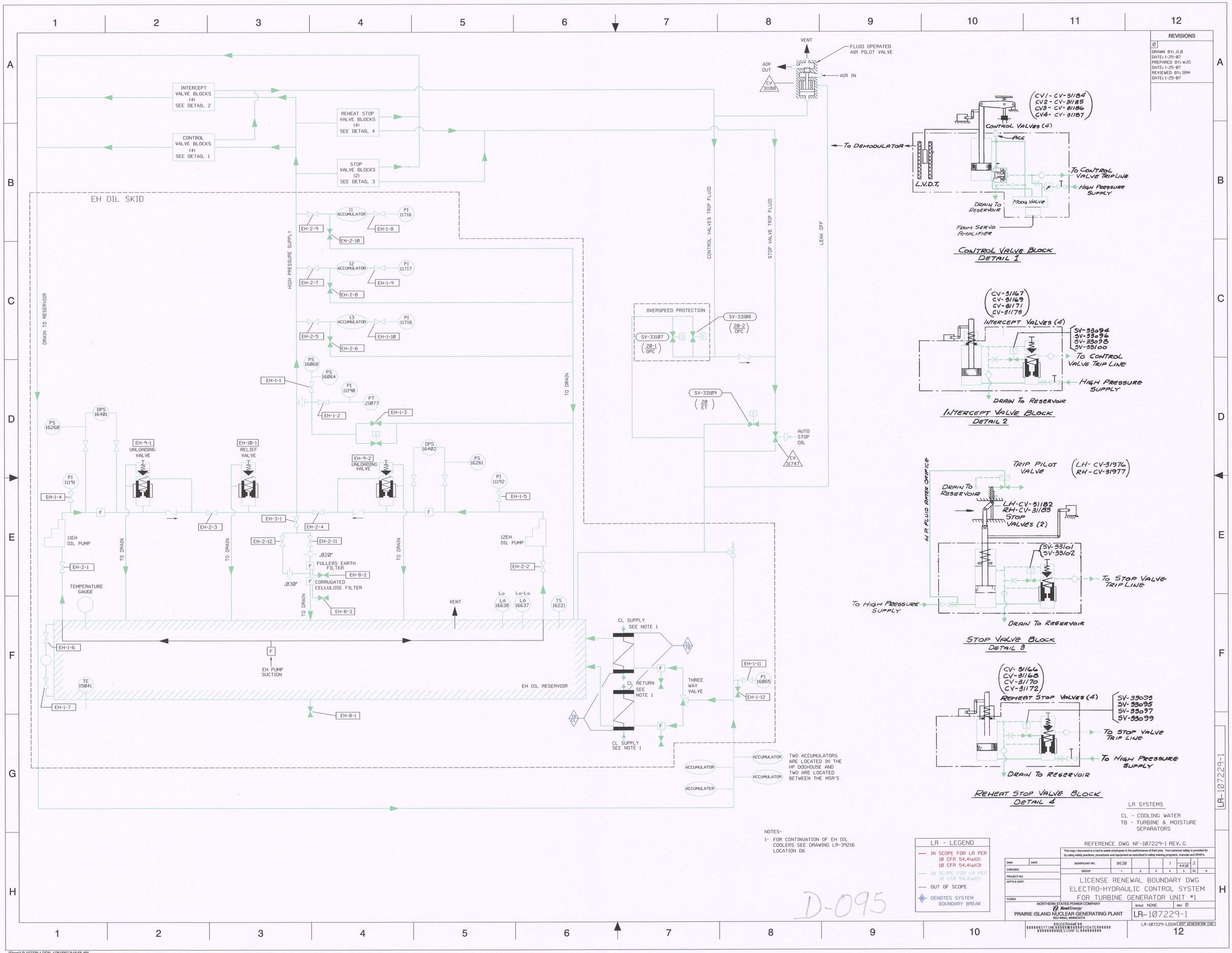
REVISIONS
0
DRAWN BY: JLB
DATE: 1-25-07
PREPARED BY: WJO
DATE: 1-25-07
REVIEWED BY: SRM
DATE: 1-25-07
INTERCEPT VALVE BLOCKS (4) SEE DETAIL 2
CONTROL VALVE BLOCKS (4) SEE DETAIL 1
REHEAT STOP VALVE BLOCKS (4) SEE DETAIL 4
STOP VALVE BLOCKS (2) SEE DETAIL 3
EH OIL SKID
DRAIN TO RESERVOIR
HIGH PRESSURE SUPPLY
CONTROL VALVES TRIP FLUID
STOP VALVE TRIP FLUID
LEAK OFF
TO DRAIN
VENT
AIR OUT
AIR IN
FLUID OPERATED AIR PILOT VALVE
CV 31188
11 ACCUMULATOR
12 ACCUMULATOR
13 ACCUMULATOR
PI 11716
PI 11717
PI 11718
EH-2-9
EH-2-10
EH-1-8
EH-2-7
EH-2-8
EH-1-9
EH-2-5
EH-2-6
EH-1-10
OVERSPEED PROTECTION
SV-33107 (20-1 OPC)
SV-33108 (20-2 OPC)
SV-33109 (20 ET)
AUTO STOP OIL
CV 31747
PS 16068
PS 16064
PI 11190
PT 21077
EH-1-1
EH-1-2
EH-1-3
PS 16260
DPS 16401
EH-9-1 UNLOADING VALVE
EH-10-1 RELIEF VALVE
EH-9-2 UNLOADING VALVE
DPS 16402
PS 16261
PI 11191
PI 11192
EH-1-4
EH-1-5
EH-2-3
EH-3-1
EH-2-4
EH-2-12
EH-2-11
.020"
.030"
FULLERS EARTH FILTER
EH-8-2
CORRUGATED CELLULOSE FILTER
EH-8-3
11EH OIL PUMP
12EH OIL PUMP
EH-2-1
EH-2-2
TEMPERATURE GAUGE
Lo LA 16638
Lo-Lo LA 16637
TS 16221
EH-1-6
EH PUMP SUCTION
TE 15041
EH-1-7
EH OIL RESERVOIR
EH-8-1
CL SUPPLY SEE NOTE 1
CL RETURN SEE NOTE 1
THREE WAY VALVE
EH-1-11
PI 16065
EH-1-12
ACCUMULATOR
ACCUMULATER
TWO ACCUMULATORS ARE LOCATED IN THE HP DOGHOUSE AND TWO ARE LOCATED BETWEEN THE MSR'S
CV1 - CV-31184
CV2 - CV-31185
CV3 - CV-31186
CV4 - CV-31187
CONTROL VALVES (4)
ACC
TO DEMODULATOR
L.V.D.T.
TO CONTROL VALVE TRIP LINE
HIGH PRESSURE SUPPLY
DRAIN TO RESERVOIR
MOOG VALVE
FROM SERVO AMPLIFIER
CONTROL VALVE BLOCK DETAIL 1
CV-31167
CV-31169
CV-31171
CV-31173
INTERCEPT VALVES (4)
SV-33094
SV-33096
SV-33098
SV-33100
TO CONTROL VALVE TRIP LINE
HIGH PRESSURE SUPPLY
DRAIN TO RESERVOIR
INTERCEPT VALVE BLOCK DETAIL 2
TRIP PILOT VALVE
(LH- CV-31976)
(RH-CV-31977)
H.P. FLUID AFTER ORIFICE
DRAIN TO RESERVOIR
LH-CV-31182
RH-CV-31183
STOP VALVES (2)
SV-33101
SV-33102
TO STOP VALVE TRIP LINE
TO HIGH PRESSURE SUPPLY
DRAIN TO RESERVOIR
STOP VALVE BLOCK DETAIL 3
CV-31166
CV-31168
CV-31170
CV-31172
REHEAT STOP VALVES (4)
SV-33093
SV-33095
SV-33097
SV-33099
TO STOP VALVE TRIP LINE
TO HIGH PRESSURE SUPPLY
DRAIN TO RESERVOIR
REHEAT STOP VALVE BLOCK DETAIL 4
LR SYSTEMS
CL - COOLING WATER
TB - TURBINE & MOISTURE SEPARATORS
NOTES-
1- FOR CONTINUATION OF EH OIL COOLERS SEE DRAWING LR-39216 LOCATION D6
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
REFERENCE DWG NF-107229-1 REV. G
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.
SIGNIFICANT NO. 8638 1 4410 2
GROUP 1 2 3 4 5 CL 6
LICENSE RENEWAL BOUNDARY DWG
ELECTRO-HYDRAULIC CONTROL SYSTEM
FOR TURBINE GENERATOR UNIT #1
NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
SCALE NONE REV 0
LR-107229-1
LR-107229-1.DGN NSP GENERATION CAD
D-095
LR-107229-1
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