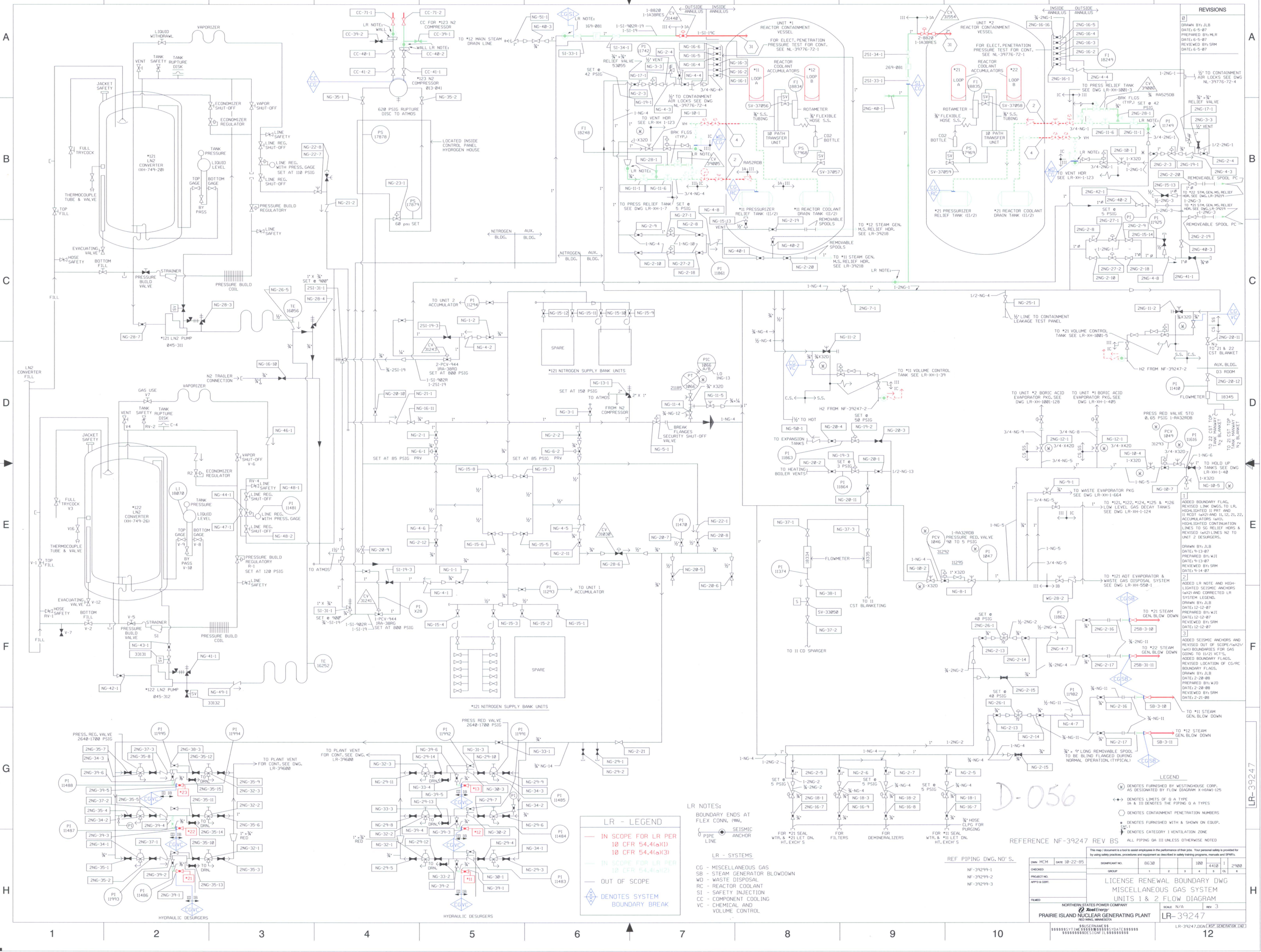
REVISIONS
Ø
DRAWN BY: JLB
DATE: 6-5-07
PREPARED BY: MLR
DATE: 6-5-07
REVIEWED BY: SRM
DATE: 6-5-07
1
ADDED BOUNDARY FLAG, REVISED LINK DWGS. TO LR, HIGHLIGHTED 11 PRT AND 11 RCDT (øX2) AND 11, 12, 21, 22, ACCUMULATORS (øX1), HIGHLIGHTED CONTINUATION LINES TO SG RELIEF HDRS & REVISED (øX2) LINES N2 TO UNIT 2 DESURGERS.
DRAWN BY: JLB
DATE: 9-13-07
PREPARED BY: WJI
DATE: 9-13-07
REVIEWED BY: SRM
DATE: 9-14-07
2
ADDED LR NOTE AND HIGHLIGHTED SEISMIC ANCHORS (øX2) AND CORRECTED LR SYSTEM LEGEND.
DRAWN BY: JLB
DATE: 12-12-07
PREPARED BY: WJI
DATE: 12-12-07
REVIEWED BY: SRM
DATE: 12-12-07
3
ADDED SEISMIC ANCHORS AND REVISED OUT OF SCOPE/(øX2)/(øX1) BOUNDARIES FOR GAS GOING TO 11/21 VCT'S. ADDED BOUNDARY FLAGS. REVISED LOCATION OF CG/RC BOUNDARY FLAGS.
DRAWN BY: JLB
DATE: 2-20-08
PREPARED BY: WJO
DATE: 2-20-08
REVIEWED BY: SRM
DATE: 2-21-08
LEGEND
(M) DENOTES FURNISHED BY WESTINGHOUSE CORP. AS DESIGNATED BY FLOW DIAGRAM X-HIAW1-125
DENOTES LIMITS OF Q A TYPE 1A & 1B DENOTES THE PIPING Q A TYPES
DENOTES CONTAINMENT PENETRATION NUMBERS
* DENOTES FURNISHED WITH & SHOWN ON EQUIP. CAT: I
DENOTES CATEGORY I VENTILATION ZONE
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 NOTES:
BOUNDARY ENDS AT FLEX CONN. (MM).
PIPE SEISMIC ANCHOR
LR - SYSTEMS
CG - MISCELLANEOUS GAS
SB - STEAM GENERATOR BLOWDOWN
WD - WASTE DISPOSAL
RC - REACTOR COOLANT
SI - SAFETY INJECTION
CC - COMPONENT COOLING
VC - CHEMICAL AND VOLUME CONTROL
REF PIPING DWG. NO'S.
NF-39299-1
NF-39299-2
NF-39299-3
REFERENCE NF-39247 REV BS
ALL PIPING QA III UNLESS OTHERWISE NOTED
D-056
LR-39247
LICENSE RENEWAL BOUNDARY DWG
MISCELLANEOUS GAS SYSTEM
UNITS 1 & 2 FLOW DIAGRAM
NORTHERN STATES POWER COMPANY
Xcel Energy
PRAIRIE ISLAND NUCLEAR GENERATING PLANT
RED WING, MINNESOTA
SCALE N/A
REV 3
LR-39247.DGN
UNIT *1 REACTOR CONTAINMENT VESSEL
UNIT *2 REACTOR CONTAINMENT VESSEL
*121 LN2 CONVERTER (XH-749-20)
*122 LN2 CONVERTER (XH-749-26)
*121 LN2 PUMP
*122 LN2 PUMP
*121 NITROGEN SUPPLY BANK UNITS
HYDRAULIC DESURGERS
SPARE
TO *12 STEAM GEN. M.S. RELIEF HDR. SEE LR-39218
TO *11 STEAM GEN. M.S. RELIEF HDR. SEE LR-39218
TO *21 STM. GEN. MS. RELIEF HDR. SEE DWG. LR-39219
TO *22 STM. GEN. MS. RELIEF HDR. SEE DWG. LR-39219
TO *11 VOLUME CONTROL TANK SEE LR-XH-1-39
TO *21 VOLUME CONTROL TANK SEE LR-XH-1001-5
TO UNIT 2 BORIC ACID EVAPORATOR PKG. SEE DWG LR-XH-1001-128
TO UNIT *1 BORIC ACID EVAPORATOR PKG. SEE DWG LR-XH-1-405
TO WASTE EVAPORATOR PKG SEE DWG LR-XH-1-664
TO *121, *122, *124, *125 & *126 LOW LEVEL GAS DECAY TANKS SEE DWG LR-XH-1-124
TO *121 ADT EVAPORATOR & WASTE GAS DISPOSAL SYSTEM SEE DWG LR-XH-550-1
TO HOLD UP TANKS SEE DWG LR-XH-1-40
TO PRESS RELIEF TANK SEE DWG LR-XH-1001-3
TO VENT HDR SEE LR-XH-1-123
TO 11 CST BLANKETING
TO 11 CD SPARGER
TO 11 SG BLOWDOWN FLASH TANK
TO PLANT VENT FOR CONT. SEE DWG. LR-39600
TO UNIT 1 ACCUMULATOR
TO UNIT 2 ACCUMULATOR
TO ATMOS
TO EXPANSION TANKS
TO HEATING BOILER VENTS
FOR *21 SEAL WTR. & *21 LET DN. HT. EXCH'S
FOR FILTERS
FOR DEMINERALIZERS
FOR *11 SEAL WTR. & *11 LET DN. HT. EXCH'S
HOSE CLPG FOR PURGING
3/4" x 9" LONG REMOVABLE SPOOL TO BE BLIND FLANGED DURING NORMAL OPERATION. (TYPICAL)
REMOVABLE SPOOL PC
REMOVABLE SPOOLS
LOCATED INSIDE CONTROL PANEL HYDROGEN HOUSE
620 PSIG RUPTURE DISC TO ATMOS
60 psi SET
SET @ 42 PSIG
SET @ 40 PSIG
SET @ 5 PSIG
SET @ 50 PSIG
SET @ 3 PSIG
SET AT 150 PSIG TO ATMOS
SET AT 85 PSIG PRV
SET AT 120 PSIG
SET @ 900#
SET @ 1700#
SET @ 2640#
SET AT 800 PSIG
PRESS. REG. VALVE 2640-1700 PSIG
PRESS RED VALVE 2640-1700 PSIG
PRESS RED VALVE 5TO Ø.65 PSIG 1-RA32RDB
1-RA32RDB PRESSURE RED. VALVE @50 TO 5 PSIG
1-RA52RDB
1-RA38RES
2-8820 1-IA38RES
2-PCV-944 IRA-38RD SET AT 800 PSIG
1-PCV-944 IRA-38RQ SET AT 800 PSIG
1-SI-902R 1-2SI-19
1-SI-902R-19 1-SI-19
1-SI-19C
1-SI-19
1-2SI-19
1-2NG-1
1-NG-4
1-NG-5
1-NG-6
1-NG-10
1-X32D
1-2NG-2
1-2NG-3
1-2NG-4
1-2NG-5
1-2NG-6
1-2NG-7
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1-2NG-41