LRXK-100-36

REVISION

LRXK-100-19 (H-7)
OPERXK-100-19 (D-7)

NOTE 15

OPERXK-100-19 (E-7)

LETDOWN LINE FROM THE REGENERATIVE HEAT EXCHANGER OPERXK-100-35 (A-10)

LETDOWN HEAT EXCHANGER

FOR CONN. SEE FLOW DIAGRAM OPERXK-100-18 (C-10) PIPING DWG. M-338

2"-1500 # SPECTACLE FLANGE

RHR-211

RHR-213

TO SLUDGE INTERCEPTOR TNK OPERM-350 (D-10)

VENT TO CONTAINMENT OPERM-539 LRM-539 (D-4)

CV 31663 CVC-55 SET @ 25 PSIG

FROM SAMPLING ROOM (SS) OPERM-350 (C-12) LRXK-100-44 e (C-12)

HYDROGEN SUPPLY MANIFOLD OPERM-216 LRM-216 (B-8)

NITROGEN SUPPLY MANIFOLD OPERM-216 LRM-216 (B-8)

ANCHOR

SEE NOTE 14

CVC 27 LR NOTE 2

FROM ABANDON BORON MEASUREMENT SYSTEM M-338 (B-1)

SEAL WATER RETURN BY-PASS LINE

SEAL WATER RETURN LINE FROM THE REACTOR COOLANT PUMPS OPERXK-100-35 (C-10)

SEAL WATER HEAT EXCHANGER

SEAL WATER FILTER (-39)

PLANT VENT

ZONE SV TRAIN B SEE M-604 LRM-604 (F-2)

ZONE SV TRAIN A SEE M-604 LRM-604 (F-3)

3" SUCTION STABILIZER VENT LINE

TO D.D.T. (SEE OPERM-350) (E-8)

CHARGING LINE TO THE REGENERATIVE HEAT EXCHANGER OPERXK-100-35 (A-10)

LOCKED ½ TURN OPEN TYP.

PULSATION DAMPENER

CHARGING PUMP ITEM: APCH

SUCTION STABILIZER

SEAL WATER INJECTION FILTER (-27)

SEAL WATER INJECTION LINE TO THE REACTOR COOLANT PUMPS OPERXK-100-35 (H-10)

SEAL WATER INJECTION BY-PASS LINE OPERXK-100-35 (H-10)

TO D.D.T. OPERM-350 (F-7)

OPERXK-100-44 (E-1)

TO ABANDON BORON MEASUREMENT SYSTEM M-338 (H-1)

LR NOTE 2

2" S.S. TUBING (DRAIN)

SET@75 PSIG

SET@250 PSIG

LETDOWN BY-PASS LINE

TO D.D.T. OPERM-350 (B-7)

OPERXK-100-37 (B-5)

VH NO 2 (WDS) OPERXK-100-132 (D-1)

OPERXK-100-44 SS (F-1)

TO GAS ANALYZER OPERXK-100-131 (E-8)

NOTE 8

NOTE 5

REACTOR COOLANT FILTER

REACTOR MAKE-UP WATER OPERM-209-2 (B-1)

MU-1119-1

HOLDUP TANKS OPERXK-100-37 (A-4)

VOLUME CONTROL TANK

REACTOR MAKEUP CONTROL

BORIC ACID BLENDER (BAB) OPERXK-100-29 (A-10)

CHEMICAL MIXING TANK

CHEMICAL MIXING TANK ORIFICE

LOCAL SAMPLE

SPENT FUEL PIT INLET HEADER OPERM-218 LRM-218 (A-9)

FOR TEMPORARY CONNECTION TO OTHER SYSTEMS

REFUELING WATER STORAGE TANK OPERXK-100-29 (A-9)

FROM BORIC ACID TANKS (OPERXK-100-38 (F-1)

HT OPERXK-100-37 (A-3)

1A LETDOWN PRE-FILTER

1B LETDOWN PRE-FILTER

LRM-350 (D-7)

RESIN-FILL TANK

LR NOTE 1

1" FLEXIBLE HOSE

HOSE COUPLING

DW OPERM-209-2 (C-11) LRM-209-2 (A-10)

3" FLEXIBLE HOSE

LRM-209-2 (C-11)

DW OPERM-209-2 (B-9)

MIXED BED DEMINERALIZERS

RESIN FILL

REACTOR MAKE-UP WATER OPERM-209-2 (B-1)

CATION BED DEMINERALIZER

DW OPERM-209-2 (C-11)

SPOOL PIECE

REGENERANT CHEMICALS

RESIN FILL CONNECTIONS

DEBORATING DEMINERALIZERS

SRPL OPERM-350 LRM-350 (D-9)

DW OPERM-209 LRM-209-2 (C-11)

OPERXK-100-131 (C-3)

NOTES:
1. VALVE FAILS WITH FLOW TO VOLUME CONTROL TANK;
2. SPECIAL SPRING LOADED CHECK VALVE.
3. ELECTROMAGNETIC - LOCATE METER IN VERTICAL PIPE RUN.
4. DRAIN FROM STUFFING BOX LEAKOFF.
5. 3/4" NOMINAL PIPE O.D. 3/8" TUBING INSERT.
6. ALL ITEM NUMBERS INCLUDE THE PREFIX WPSCS
7. INSTALL SOLENOID VALVES IN DIRECTION OF ARROW.

≠ CONTROL VALVE MODULATES OPEN/CLOSE TO MAINTAIN DOWNSTREAM PRESSURE OF 5 PSI.

5. = QUALITY ASSURANCE CODES BY P.S.E.

10. LOCATE NEAC VCT OUTLET HEADER, LINE 25

NOTES (CONTINUED):
11. FOR CONT. OF ALL REFERENCES TO DH (DRAIN HEADERS) SEE M-350.

13. ROOT VALVE NUMBERS WILL NOT BE SHOWN ON THIS DRAWING. THE OPERATION VALVE NUMBER CONTAINS THE SYSTEM DESIGNATOR FOLLOWED BY THE INSTRUMENT NUMBER (I.E., SW-1100?.)

14. FILTER HOUSINGS INSTALLED BACKWARDS PER DCR 1638 FOR COALESCING PURPOSES.15. LIMIT STOP INSTALLED PER DCR 3482.

15. LIMIT STOP INSTALLED PER DCR 3482.

LEGEND

NON-SV ZONE / SV ZONE

LR NOTES:

1. THE RESIN FILL TANK AND THE ASSOCIATED APPURTENANCES ARE A PORTABLE UNIT. WHEN FILLED AND IN USE, THE TANK IS MAINTAINED AT ATMOSPHERIC PRESSURE AND THERE ARE NO SAFETY RELATED COMPONENTS WITHIN THE COLLAPSE ENVELOPE OF THE TANK.

2. DOWN STREAM OF VALVE LD-36 AND UP STREAM OF VALVE CVC-37, THE BORON MEASUREMENT SAMPLE TANK TUBING AND VALVES WILL BE INCLUDED FOR LR PURPOSES SINCE THEY WERE ORIGINALLY QA-1.

LICENSE RENEWAL DRAWING LEGEND

- 35/CVC CHEMICAL & VOLUME CONTROL
- 27A/MUP MAKE-UP AND DEMINERALIZED WATER
- 30/MDS MISCELLANEOUS DRAINS AND SUMPS
- 31/CC COMPONENT COOLING
- 32A/WD-(L) LIQUID WASTE PROCESSING AND DISCHARGE
- 32B/WD-(G) GASEOUS WASTE PROCESSING AND DISCHARGE
- 33/SI SAFETY INJECTION
- 34/RHR RESIDUAL HEAT REMOVAL
- 37/PS PRIMARY SAMPLING
- 51/GS MISCELLANEOUS GAS

IN SCOPE FOR LR PER 10CFR 54.4 (a) (2)

IN SCOPE FOR LR PER 10CFR 54.4 (a) (1) 10CFR 54.4 (a) (3)

A ANCHOR LOCATION

DOMINION ENERGY KEWAUNEE, INC.
KEWAUNEE POWER STATION

LICENSE RENEWAL DRAWING
CHEMICAL & VOLUME CONTROL SYS.

HYBRID CADD	APPROVED	DRAWN	DWG. No.	REV.
		JSW 03/08/06	LRXK-100-36	0
	REVIEWED	SCALE		

REFERENCED PER MASTER DRAWING: OPERXK-100-36 REV. BA

REV "BA" PER LAST UPDATE

22-JUL-2008 11:35 LRXK-100-36.LAY