DWG. NO. OFD-109A-1.1 REV. 8

FROM RADWASTE FACILITY RESIN BATCH TANK — LWD L-6 OFD-109A-3.1

2LWD-1136 · 2LWD-1135 · 2LWD-1134 · 2LWD-1133 · 2LWD-1149 · 2LWD-1148 · 1LWD-1076 · LWD-1069

LWD G-1 OFD-104A-1.2 TO UNITS 1 & 2 SPENT FUEL DEMIN.

LWD D-5 OFD-109A-1.2 TO RADWASTE FACILITY

LWD-1072

TO BACKWASH SUPPLY HEADER — LWD B-9 OFD-109A-1.2

LWD-1075 · LWD-1071 · 2LWD-1147 · LWD PT 0251 · LWD P 0331

LWD FT 0175 · LWD P 0332 · LWD FE 0175

1LWD-198 · 1LWD-207 · 1LWD-208 · 1CA-41

LWD C-1 OFD-109A-1.2 TO BACKWASH SUPPLY HEADER

TO DEBOR. DEMIN. SLUICE LINES — LWD L-1 OFD-109A-1.2

CS E-11 OFD-106A-1.1 FROM HC BLEED TRANSFER PUMPS UNITS 1&2 — 1CS-92 · 1CS-93

RINSE & BACKWASH HEADER

LWD K-12 OFD-109A-1.2 TO DEBOR. DEMIN. RINSE/BACKWASH HEADER

1CT FG 0003 · 1CT FX0001 · 1LWD-196

LWD D-4 OFD-107D TO HIGH ACTIVITY WASTE TANK

LWD I-12 OFD-109A-1.2 FROM DEBOR. DEMIN. VENT HEADER

1LWD-169 · 1LWD-170 · 2LWD-169

HPI K-14 OFD-101A-1.1 FROM UNIT 1 RC LETDOWN COOLER DISCH.

1HPISV 0091 · 1HP-13 · 1HP-44 · CA K-3 OFD-110A-1.2 TO UNIT 1 & 2 SAMPLE BASIN

1HPISV 0092 · 1HP-8 · 1HP-9 · 2HP-10 · 2HPISV 0093 · 2HP-8 · 2HP-44 · CA K-2 OFD-110A-2.2 TO UNIT 1 & 2 SAMPLE BASIN · 2HPISV 0091 · 2HP-13

HPI K-14 OFD-101A-2.1 FROM UNIT 2 RC LETDOWN COOLER DISCH.

PURIFICATION DEMINERALIZER SUPPLY HEADER

TO HIGH ACTIVITY WASTE TANK — LWD E-1 OFD-107D-2.2 · 1CT FG 0002 · HP-48 · 1GWD-53

TO HIGH ACTIVITY WASTE TANK — LWD D-1 OFD-107D-2.2 · 2CT FG 0001 · 2HP-45 · 2GWD-52

1CT FG 0001 · 1HP-45 · 1GWD-52 · LWD F-2 OFD-107D-2.2 TO HIGH ACTIVITY WASTE TANK

RESIN FILL · 1HP-46 · HP-49 · 2HP-46

PURIFICATION DEMINERALIZER UNIT 1 (1HPIDM0001)

PURIFICATION DEMINERALIZER (SPARE) (1HPIDM0002)

PURIFICATION DEMINERALIZER UNIT 2 (2HPIDM0001)

TO UNIT 1 DEBOR. DEMIN. INLET HEADER — LWD J-3 OFD-109A-1.2

1ILWD-175 · LWD E-2 OFD-109A-1.2 TO SPENT RESIN DISCH. HEADER

LWD E-8 OFD-109A-1.2 TO SPENT RESIN DISCH. HEADER

2LWD-175 · LWD E-10 OFD-109A-1.2 TO SPENT RESIN DISCH. HEADER

TO UNIT 2 DEBOR. DEMIN. INLET HEADER — LWD J-12 OFD-109A-1.2

1HP-335 · 2HP-335 · 1HP-47 · 2HP-47

HPI L-2 OFD-101A-1.2 TO UNIT 1 LETDOWN FILTER · 1HP-14 · 1HP-51 · CA J-1 OFD-110A-1.2 TO UNIT 1 & 2 SAMPLE BASIN

PURIFICATION DEMINERALIZER DISCHARGE HEADER

1HPISV 0094 · 1HP-11 · 1HP-50 · 2HP-48 · 2HP-12 · 2HPISV 0094

1LWD-174 · LWD D-2 OFD-109A-1.2 TO BACKWASH SUPPLY HEADER

LWD D-5 OFD-109A-1.2 TO BACKWASH SUPPLY HEADER · LWD-176

2LWD-174 · LWD D-8 OFD-109A-1.2 TO BACKWASH SUPPLY HEADER

HPI L-4 OFD-101A-2.2 TO UNIT 2 LETDOWN FILTER · 2HP-14 · 2HP-51 · CA J-1 OFD-110A-2.2 TO UNIT 1 & 2 SAMPLE BASIN

DESIGN PARAMETERS

LINE NO.	DUKE CLASS	DESIGN PRESS.	DESIGN TEMP.	MATERIAL	PIPE SPEC. NO.	PIPE SCH. NO.	ISI CLASS
1	C	140 PSIG	200°F	SS	151.3	NOTE 2	-
2	E	150 PSIG	200°F	SS	151.4	NOTE 2	-
3	E	150 PSIG	200°F	SS	151.4	40	-

DESIGN FLOW

NO.	FLOW
1	70 GPM

NOTES:
1. OPERATING MODE REPRESENTED BY BOLD LINES: NORMAL LETDOWN FLOW, ONE PURIFICATION DEMINERALIZER (PER UNIT) IN SERVICE.
2. 1/2" THRU 2" SCH. =80
   2 1/2" THRU 12" SCH. =10S
   14" THRU 18" SCH. =10
3. THE ORIGINAL ISSUE OF THIS DRAWING IS BASED ON PD-109A-1, REV. 17.

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE	CIVIL	ELEC.	MECH. INSTRUM.
8	REV. PER ONPR-3721 AND REV. VALVE	RBC	1-19-95							
---	SYMBOLS AND REMOVE PIPE CAPS									
---	PER ED. EXEMPTION D.6									
ORIG.	ORIGINAL DRAWING RETIRED									

DESIGNED CW WILSON DATE 2-1-84 · DRAWN ED MOYLE DATE 2-1-84 · CHECKED JB STRINGER DATE 2-1-84 · SCALE

INSP. EG FRANKTON DATE 2-27-84 · INSP. HD McKAY DATE 2-27-84 · APPR. RH WARDELL DATE 2-27-84

DWG. NO. OFD-109A-1.1 REV. 8

QA CONDITION 2

QA CONDITION 1

DUKE POWER COMPANY
OCONEE NUCLEAR STATION UNITS 1 & 2
9502230295
PURIFICATION DEMINERALIZERS

ANSTEC APERTURE CARD

9502230295

INFORMATION ONLY

97-269
9502210164
2/9/95

ERN-OX020L19