DWG. NO. CN-1577-1.2 REV. 12

TRAIN 1A/2A ECCS Alignment

TRAIN 1B/2B ECCS Alignment

Reposition on Train A/B SI Signal

ENVIRON. ENVIRON. ENVIRON. ENVIRON.

AC-37 1ABF-D-8 FC NOTE 11 AC-37 1ABF-D-9 FC NOTE 11 1VATH 7660 VS NOTE 10 FO 1ABF-D-10

AC-37 1ABF-D-1 FC NOTE 11 AC-37 1ABF-D-2 FC NOTE 11 1VATH 7630 VS NOTE 10 FO 1ABF-D-3

AC-37 2ABF-D-1 FC NOTE 11 AC-37 2ABF-D-2 FC NOTE 11 2VATH 7630 VS NOTE 10 FO 2ABF-D-3

AC-37 2ABF-D-8 FC NOTE 11 AC-37 2ABF-D-9 FC NOTE 11 2VATH 7660 VS NOTE 10 FO 2ABF-D-10

12

C 3 E FAI 6" #DUCT 220 CFM 1VA28B NOTES 3 & 5 — 220 CFM 1VA31A NOTES 3 & 5 6" #DUCT

C 3 E FAI 6" #DUCT 220 CFM 2VA31A NOTES 3 & 5 — 220 CFM 2VA28B NOTES 3 & 5 6" #DUCT

1VATS 7820 1VAPG 8350 1VAPG 5310 C 1VAP 5000 1VAPT 5000 1VAP C 5020 1VAPT 5020 1VATS 7830 1VAPG 8360 1VAPG 5360

2VATS 7830 2VAPG 8360 2VAPG 5360 C 2VAP 5020 2VAPT 5020 2VAP C 5000 2VAPT 5000 2VATS 7820 2VAPG 8350 2VAPG 5310

ABFU-1A (B27) NOTES 1 & 8 ABFU-1B (B28) NOTES 1 & 8

ABFU-2B (B25) NOTES 2 & 9 ABFU-2A (B26) NOTES 2 & 9

1VATE 5010 1VATS 5010 1VATE 5040 1VAPG 5320 1VAPG 5330 1VAPX 7560 1VAPG 5350 1VAPG 5340 1VATE 5030 1VATS 5030 1VATE 5050

2VATE 5030 2VATS 5030 2VATE 5050 2VAPG 5340 2VAPG 5350 2VAPX 7560 2VAPG 5320 2VAPG 5330 2VATE 5010 2VATS 5010 2VATE 5040

C 3 E FAI 6" #DUCT 1VA29A NOTES 3 & 5 — 1VA30B NOTES 3 & 5

C 3 E FAI 6" #DUCT 2VA30B NOTES 3 & 5 — 220 CFM 2VA29A NOTES 3 & 5

NOTE 10 FC 1ABF-D-12 Locked Closed Bypass NOTE 10 FO 1ABF-D-14 NOTE 10 FO 1ABF-D-7 NOTE 10 FC 1ABF-D-5 Locked Closed Bypass

NOTE 10 FC 2ABF-D-5 Locked Closed Bypass NOTE 10 FO 2ABF-D-7 NOTE 10 FO 2ABF-D-14 NOTE 10 FC 2ABF-D-12 Locked Closed Bypass

1VATH 5630 VS 1VATS 5640 VS 1VAPS 7690 VS 1VATS 7640 VS

2VATH 5690 VS 2VATS 5700 VS 2VAPS 7700 VS 2VATS 5640 VS

SI Vortex 1ABF-D-13 NOTE 6 ABFXF-1A (007) 1VATH 7670 VS 1VAPS 7680 VS

SI Vortex 1ABF-D-6 NOTE 6 ABFXF-1B (008) 1VATH 5730 VS 1VAPS 5720 VS

SI Vortex 2ABF-D-6 NOTE 6 ABFXF-2B (023) 2VATH 5730 VS 2VAPS 5720 VS

SI Vortex 2ABF-D-13 NOTE 6 ABFXF-2A (024) 2VATH 7670 VS 2VAPS 7680 VS

UNIT VENT VA CN-1577-3.0 650,000 CFM 1VAPX 5600 VS 1VAP C 5200 VS AFM 1VAFE 5200 VS 1ABFX-AFMD-1

UNIT VENT VA E-6 CN-1577-3.0 650,000 CFM 2VAP C 5200 VS 2VAPX 5600 VS 2VAFE 5200 VS AFM 2ABFX-AFMD-1

1ABFX-D-1 1ABFX-D-2 2ABFX-D-2 2ABFX-D-1

Hot Machine Shop Decon Room Contaminated M&L Vestibule Counting Room Radiological Environment Rm Respirator Rm Instr. Calib Rm Corridor Hot Tool Crib Contaminated Change/Shower/Drying Areas

Train 1A

WL G-8 CN-1565-2.3 ZJ L-14 CN-1598-1.0 16,850 CFM VA D-2 CN-1577-1.4 Contaminated Trash Waste Shipping Room Laundry Room Train 2A

VA B-9 CN-1577-1.6 14,710 CFM ZJ C-1 CN-1598-1.0 VA F-5 CN-1577-1.0 150 CFM Decon Sink

16,850 CFM 255 CFM VA F-10 CN-1577-1.0 Decon Sink 17,105 CFM

38,000 CFM 38,000 CFM 38,000 CFM 38,000 CFM

FC 1ABF-D-11 7430 CFM 7430 CFM 1ABF-D-4 FC

FC 2ABF-D-4 8553 CFM 8550 CFM 2ABF-D-11 FC

VA F-5 CN-1577-1.1 TO EMF41 POINT 3 AFM 1VAFE 5250 VS 1ABFX-AFMD-2 DDP/B-11 Injection Ports SI SI

VA I-5 CN-1577-1.1 TO EMF41 POINT 9 AFM 2VAFE 5250 VS 2ABFX-AFMD-2 DDP/R-11 Injection Ports SI SI

22,570 CFM 22,570 CFM 21,445 CFM 21,450 CFM

UNIT 2

Certified as of 10/25/79 at shutdown

EL. 594' +0"

VA K-2 CN-1577-1.3 ECCS Rooms VA K-7 CN-1577-1.3 VA K-8 CN-1577-1.3 VA K-13 CN-1577-1.3 ECCS Rooms

ECCS AUXILIARY BUILDING Rooms

NOTES:

1. FOR DRAINS, SEE DWG. CN-1565-2.5.
2. FOR DRAINS, SEE DWG. CN-2565-2.5.
3. SEE "VALVE LISTING" FOR PRESSURE, TEMPERATURE, AND CLASS FOR ALL VALVES SHOWN ON THIS DIAGRAM.
4.
5. HI TEMP PURGE VALVES.
6. DAMPER FAILS TO MINIMUM POSITION.
7.
8. FOR FIRE PROTECTION SPRAY WATER (SYSTEM RF) SEE DWG. CN-1599-2.1.
9. FOR FIRE PROTECTION SPRAY WATER (SYSTEM RF) SEE DWG. CN-1599-2.2.
10. FILTER UNIT ISOLATION DAMPERS WILL REMAIN IN THE FAILED POSITION.
11. OUTSIDE AIR ISOLATION DAMPERS REMAIN IN FAILED (CLOSED) POSITION.

VALVE LISTING

VALVE#	PRESSURE	TEMPERATURE	CLASS
1VA28B	20 PSIG	250°F	C
2VA28B	20 PSIG	250°F	C
1VA29A	20 PSIG	250°F	C
2VA29A	20 PSIG	250°F	C
1VA30B	20 PSIG	250°F	C
2VA30B	20 PSIG	250°F	C
1VA31A	20 PSIG	250°F	C
2VA31A	20 PSIG	250°F	C

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE
12	REV PER CE-10268 IMP. DATE 4-7-99	VDC	4-9-99	WBL	4-13-99	RGW	4-19-99
11	REV PER CE-9714 (10-15-98)	EDS	10-20-98	RSF	10-20-98	RGW	10-22-98
ORIG.	ORIGINAL DRAWING RETIRED	EDS	10-19-98				

REK DSA JKR — REK DMA ARL — CIVIL ELEC MECH INSPECTED

QA CONDITION 1

QA CONDITION 3

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNITS 1 & 2

FLOW DIAGRAM OF AUXILIARY BUILDING VENTILATION SYSTEM (VA)

DESIGNER PD MOSS DATE 10-29-79 — INSP. DW MURDOCK DATE 11-8-79
DRAWN WL PATTON DATE 10-17-79 — INSP. WAIVED DATE
CHECKED PM WHITE DATE 10-30-79 — APPR. HA SMITH DATE 11-14-79

SCALE — DWG. NO. CN-1577-1.2 REV. 12

D-03

CN000HQ0