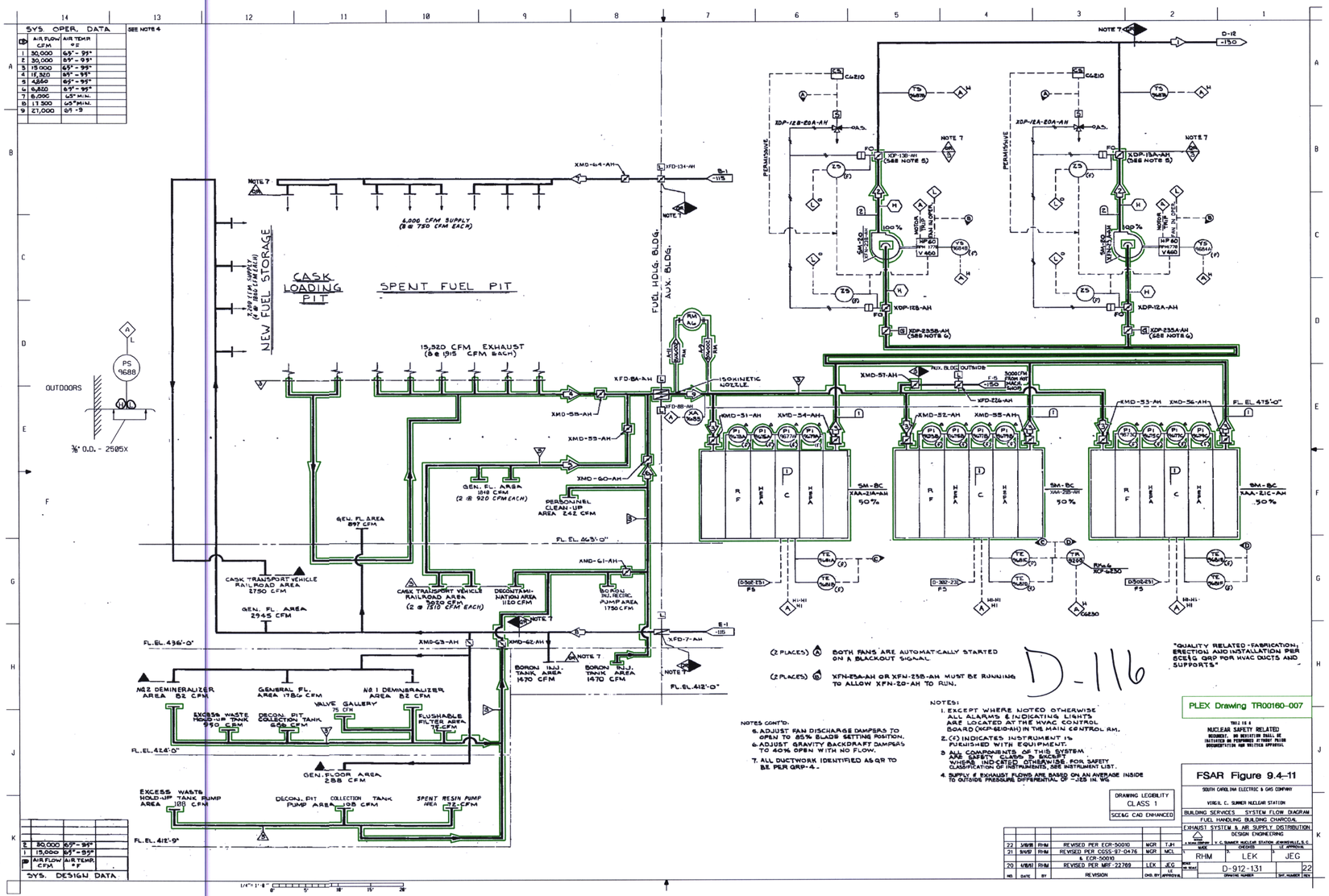
SYS. OPER. DATA
SEE NOTE 4
AIR FLOW CFM
AIR TEMP °F
1 30,000 65° - 95°
2 30,000 65° - 95°
3 15,000 65° - 95°
4 12,320 65° - 95°
5 4,860 65° - 95°
6 6,820 65° - 95°
7 8,000 65° MIN.
8 17,300 65° MIN.
9 27,000 65 - 9
NOTE 7
D-12
-150
C6210
XDP-12B-20A-AH
O.A.S.
PERMISSIVE
XDP-130-AH (SEE NOTE 5)
XDP-13A-AH (SEE NOTE 5)
NOTE 7
100%
MOTOR TRIP
MOTOR RUNNING
SM-3B
V 450
V 460
V6840
V6841A
XDP-12B-AH
XDP-12A-AH
XDP-235B-AH (SEE NOTE 6)
XDP-235A-AH (SEE NOTE 6)
XMD-64-AH
XFD-134-AH
E-1
-115
6,000 CFM SUPPLY (8 @ 750 CFM EACH)
NEW FUEL STORAGE
3,000 CFM SUPPLY (2 @ 1500 CFM EACH)
CASK LOADING PIT
SPENT FUEL PIT
FUEL HDLG. BLDG.
AUX. BLDG.
15,320 CFM EXHAUST (8 @ 1915 CFM EACH)
XFD-8A-AH
XFD-8B-AH
ISOKINETIC NOZZLE
XMD-55-AH
XMD-53-AH
XMD-60-AH
GEN. FL. AREA 1848 CFM (2 @ 920 CFM EACH)
PERSONNEL CLEAN-UP AREA 242 CFM
GEN. FL. AREA 897 CFM
FL. EL. 463'-0"
XMD-61-AH
CASK TRANSPORT VEHICLE RAILROAD AREA 1750 CFM
GEN. FL. AREA 2945 CFM
CASK TRANSPORT VEHICLE RAILROAD AREA 3050 CFM (2 @ 1310 CFM EACH)
DECONTAMI-NATION AREA 1120 CFM
BORON INJ. RECIRC. PUMP AREA 1750 CFM
XMD-62-AH
XFD-7-AH
BORON INJ. TANK AREA 1470 CFM
FL. EL. 436'-0"
FL. EL. 424'-0"
FL. EL. 412'-9"
FL. EL. 412'-0"
NO2 DEMINERALIZER AREA 82 CFM
GENERAL FL. AREA 1786 CFM
NO 1 DEMINERALIZER AREA 82 CFM
VALVE GALLERY 75 CFM
EXCESS WASTE HOLD-UP TANK 990 CFM
DECON. PIT COLLECTION TANK 606 CFM
FLUSHABLE FILTER AREA 72 CFM
GEN. FLOOR AREA 288 CFM
EXCESS WASTE HOLD-UP TANK PUMP AREA 108 CFM
DECON. PIT COLLECTION TANK PUMP AREA 108 CFM
SPENT RESIN PUMP AREA 72 CFM
OUTDOORS
PS 9688
⅜" O.D. - 2505X
AUX. BLDG. OUTSIDE
5000 CFM FROM AHT HACA XMD-57
XFD-226-AH
XMD-51-AH
XMD-54-AH
XMD-52-AH
XMD-58-AH
XMD-56-AH
FL. EL. 475'-0"
RF
MEA
PC
SM-BC XAA-13A-AH
SM-BC XAA-13B-AH
SM-BC XAA-21C-AH
50%
TE 9688
TE 9687
TE 9686
TE 9685
TE 9684
TE 9683
TE 9682
TE 9681
TE 9680
TE 9679
TE 9678
TE 9677
TE 9676
TE 9675
TE 9674
TE 9673
D-302-251 F5
D-302-231 F5
D-302-211 F5
RTN-6 XDP-6230
XDP-6230
H-HI
A-HI
(2 PLACES) A BOTH FANS ARE AUTOMATICALLY STARTED ON A BLACKOUT SIGNAL.
(2 PLACES) B XFN-ESA-AN OR XFN-ESB-AN MUST BE RUNNING TO ALLOW XFN-20-AH TO RUN.
NOTES CONT'D.
6. ADJUST FAN DISCHARGE DAMPERS TO OPEN TO 85% BLADE SETTING POSITION.
6. ADJUST GRAVITY BACKDRAFT DAMPERS TO 40% OPEN WITH NO FLOW.
7. ALL DUCTWORK IDENTIFIED AS QR TO BE PER QRP-4.
NOTES:
1. EXCEPT WHERE NOTED OTHERWISE ALL ALARMS & INDICATING LIGHTS ARE LOCATED AT THE HVAC CONTROL BOARD (MCP-810-AH) IN THE MAIN CONTROL RM.
2. (E) INDICATES INSTRUMENT IS FURNISHED WITH EQUIPMENT.
3. ALL COMPONENTS OF THIS SYSTEM ARE SAFETY CLASS 3, EXCEPT WHERE INDICATED OTHERWISE. FOR SAFETY CLASSIFICATION OF INSTRUMENTS, SEE INSTRUMENT LIST.
4. SUPPLY & EXHAUST FLOWS ARE BASED ON AN AVERAGE INSIDE TO OUTSIDE PRESSURE DIFFERENTIAL OF -.125 IN. WG.
D-116
"QUALITY RELATED - FABRICATION, ERECTION AND INSTALLATION PER SCE&G QRP FOR HVAC DUCTS AND SUPPORTS"
PLEX Drawing TR00160-007
NUCLEAR SAFETY RELATED
SYS. DESIGN DATA
AIR FLOW CFM
AIR TEMP °F
2 30,000 65° - 95°
1 15,000 65° - 95°
DRAWING LEGIBILITY CLASS 1
SCE&G CAD ENHANCED
22 3/8/88 RHM REVISED PER ECR-50010 MGR TJH
21 8/4/87 RHM REVISED PER CGSS-87-0476 & ECR-50010 MGR MCL
20 4/8/87 RHM REVISED PER MEF-22769 LEK JEG
NO. DATE BY REVISION CHKD. BY LE APPROVED
FSAR Figure 9.4-11
SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMMER NUCLEAR STATION
BUILDING SERVICES SYSTEM FLOW DIAGRAM
FUEL HANDLING BUILDING CHARCOAL EXHAUST SYSTEM & AIR SUPPLY DISTRIBUTION
DESIGN ENGINEERING
V. C. SUMMER NUCLEAR STATION, JENKINSVILLE, S.C.
DRAWN RHM CHECKED LEK LE APPROVED JEG
D-912-131 22
DRAWING NUMBER SHT. NUMBER REV.