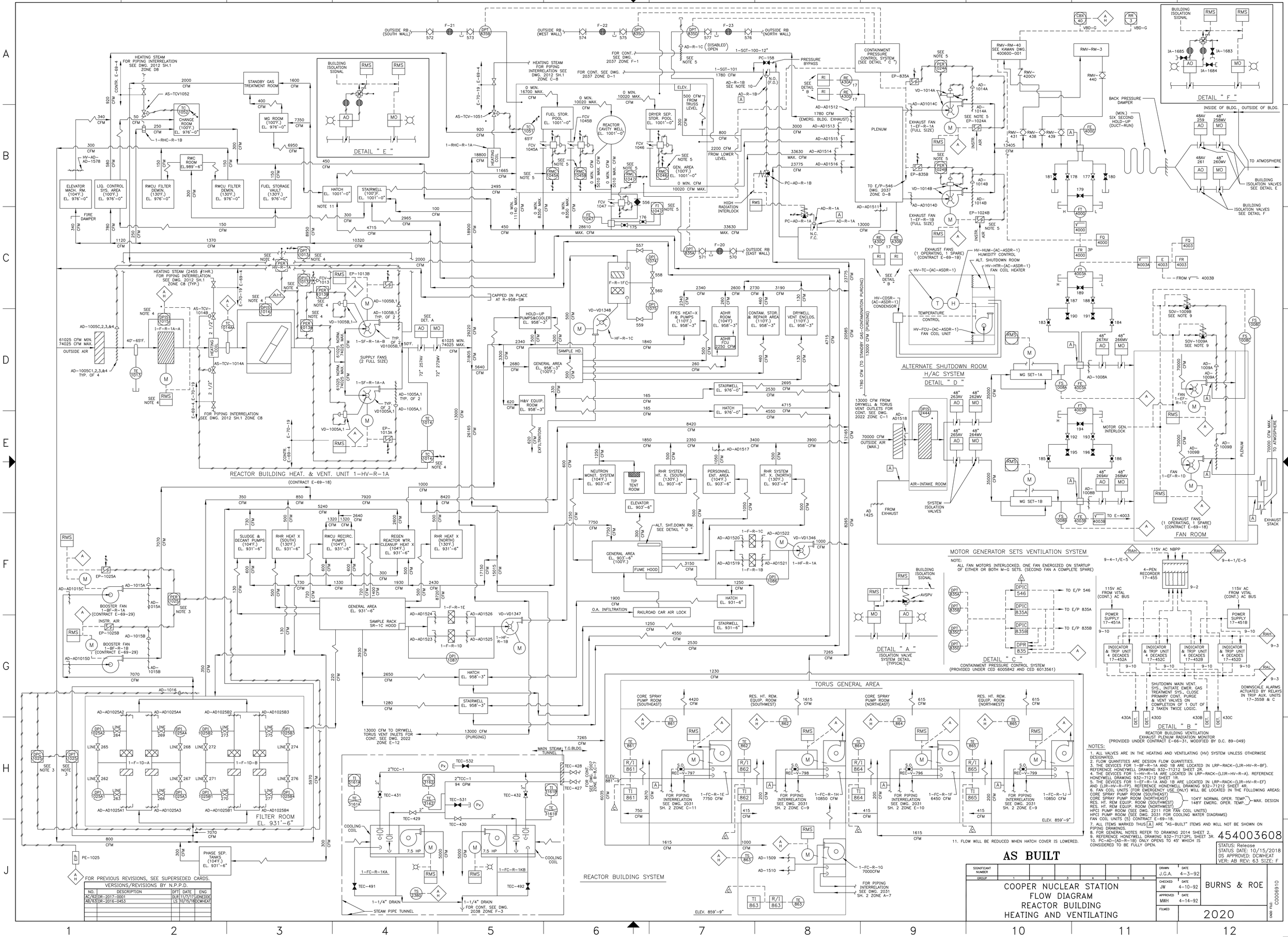
REACTOR BUILDING HEAT. & VENT. UNIT 1-HV-R-1A
(CONTRACT E-69-18)
DETAIL " E "
DETAIL " F "
ALTERNATE SHUTDOWN ROOM H/AC SYSTEM DETAIL " D "
FAN ROOM
MOTOR GENERATOR SETS VENTILATION SYSTEM
DETAIL " A "
ISOLATION VALVE SYSTEM DETAIL (TYPICAL)
DETAIL " C "
CONTAINMENT PRESSURE CONTROL SYSTEM (PROVIDED UNDER CED 6005842 AND CED 6013561)
DETAIL " B "
REACTOR BUILDING VENTILATION EXHAUST PLENUM RADIATION MONITOR (PROVIDED UNDER CONTRACT E-66-31, MODIFIED BY D.C. 89-049)
REACTOR BUILDING SYSTEM
TORUS GENERAL AREA
FILTER ROOM EL. 931'-6"
HEATING STEAM FOR PIPING INTERRELATION SEE DWG. 2012 SH.1 ZONE D8
HEATING STEAM (2455 #1HR.) FOR PIPING INTERRELATION SEE DWG. 2012 SH.1 ZONE C8 (TYP.)
OUTSIDE RB (SOUTH WALL)
OUTSIDE RB (WEST WALL)
OUTSIDE RB (NORTH WALL)
OUTSIDE RB (EAST WALL)
CONTAINMENT PRESSURE CONTROL SYSTEM (SEE DETAIL " C ")
PRESSURE BYPASS
PLENUM
TO E/P-546 DWG. 2037 ZONE D-8
HIGH RADIATION INTERLOCK
EXHAUST FANS (1 OPERATING, 1 SPARE) (CONTRACT E-69-1B)
BACK PRESSURE DAMPER
(MIN.) SIX SECOND HOLD-UP (DUCT-RUN)
INSIDE OF BLDG.
OUTSIDE OF BLDG.
TO ATMOSPHERE
BUILDING ISOLATION VALVES SEE DETAIL E
BUILDING ISOLATION VALVES SEE DETAIL F
BUILDING ISOLATION SIGNAL
STANDBY GAS TREATMENT ROOM
CHANGE ROOM (100'F.) EL. 976'-0"
MG ROOM (100'F.) EL. 976'-0"
RWC ROOM EL.989'-6"
ELEVATOR MACH. RM. (104'F.) EL. 976'-0"
LIQ. CONTROL SYS. AREA (100'F.) EL. 976'-0"
RWCU FILTER DEMIN. (130'F.) EL. 976'-0"
RWCU FILTER DEMIN. (130'F.) EL. 976'-0"
FUEL STORAGE VAULT (130'F.) EL. 976'-0"
HATCH EL. 1001'-0"
STAIRWELL (100'F.) EL. 1001'-0"
FUEL STOR. POOL EL. 1001'-0"
REACTOR CAVITY WELL EL. 1001'-0"
DRYER SEP. STOR. POOL EL. 1001'-0"
GEN. AREA (100'F.) EL. 1001'-0"
ELEV.
FIRE DAMPER
HOLD-UP PUMP&COOLER EL. 958'-3"
FPCS HEAT-X & PUMPS (110'F.) EL. 958'-3"
ADHR ROOM (104'F.) EL. 958'-3"
CONTAM. STOR. & REPAIR AREA (110'F.) EL. 958'-3"
DRYWELL VENT. ENCLOS. (110'F.) EL. 958'-3"
ADHR FCU 2250 CFM
SAMPLE HD.
GENERAL AREA EL. 958'-3" (100'F.)
H&V EQUIP. EL. 958'-3"
STAIRWELL EL. 976'-0"
HATCH EL. 976'-0"
SUPPLY FANS (2 FULL SIZE)
CAPPED IN PLACE AT R-958-SW
SEE DET. A
61025 MIN. 74025 MAX. OUTSIDE AIR
AD-1005C,2,3,&4 TYP. OF 4
AD-1005C1,2,3,&4 TYP. OF 4
I-F-R-1A-A
HEATING COIL
AS-TCV-1014A
AS-TCV-1014B
FOR PIPING INTERRELATION SEE DWG. 2012 SH.1 ZONE C8
SEE NOTE 4
SEE NOTE 11
SEE NOTE 5
SEE NOTE 10
SEE DETAIL " B "
SEE DETAIL " D "
SEE NOTE 3
AS-TCV1052
AS-TCV-1051
1-RHC-R-1B
1-RHC-R-1A
1-SGT-100-12"
1-SGT-101
1780 CFM
AD-R-1C (DISABLED) OPEN
AD-R-1B
AD-R-1A
PC-158
PC-AD-R-1B
PC-AD-R-1A
N.O. (F.O.)
N.C. F.C.
AD-AD1512
AD-AD1513
AD-AD1515
AD-AD1514
AD-AD1516
AD-AD1511
1780 CFM (EMERG. BLDG. EXHAUST)
3000 CFM
33630 MAX. CFM
23775 CFM
13000 CFM
33630 MAX. CFM
28610 MAX. CFM
2200 CFM FROM LOWER LEVEL
800 CFM
500 CFM FROM TRUSS LEVEL
300 CFM
0 MIN. 16700 MAX. CFM
0 MIN. 10020 MAX. CFM
0 MIN. 10020 CFM MAX.
5010 MAX. CFM
18800 CFM
11665 CFM
2495 CFM
2965 CFM
4715 CFM
10320 CFM
18900 CFM
29220 CFM
31805 CFM
25165 CFM
13000 CFM
12165 CFM
8265 CFM
7265 CFM
20585 CFM
23775 CFM
4715 CFM
1780 CFM (TO STANDBY GAS-CONTAMINATION PURGING)
13000 CFM (TO STANDBY GAS-CONTAMINATION PURGING)
13000 CFM FROM DRYWELL & TORUS VENT OUTLETS FOR CONT. SEE DWG. 2022 ZONE C-1
70000 CFM OUTSIDE AIR (MAX.)
35000 CFM
70000 CFM
AIR-INTAKE ROOM
SYSTEM ISOLATION VALVES
FROM EXHAUST
MG SET-1A
MG SET-1B
MOTOR GEN. INTERLOCK
EXHAUST STACK
70000 CFM MAX. TO ATMOSPHERE
PLENUM
FAN 1-EF-R-1C
FAN 1-EF-R-1D
HV-HUM-(AC-ASDR-1) HUMIDITY CONTROL
HV-HTR-(AC-ASDR-1) FAN COIL HEATER
HV-TC-(AC-ASDR-1)
HV-CDSR-(AC-ASDR-1) CONDENSOR
TEMPERATURE CONTROL
HV-FCU-(AC-ASDR-1) FAN COIL UNIT
ALT. SHUTDOWN ROOM
SHUTDOWN MAIN VENT. SYS., INITIATE EMER. GAS TREATMENT SYS., CLOSE PRIMARY CONT. PURGE & VENT VALVES ON COMPLETION OF 1 OUT OF 2 TAKEN TWICE LOGIC.
DOWNSCALE ALARMS ACTUATED BY RELAYS IN TRIP AUX. UNITS 17-355B & C
115V AC NBPP
115V AC FROM VITAL (CONT.) AC BUS
4-PEN RECORDER 17-455
POWER SUPPLY 17-451A
POWER SUPPLY 17-451B
INDICATOR & TRIP UNIT 4 DECADES 17-452A
INDICATOR & TRIP UNIT 4 DECADES 17-452C
INDICATOR & TRIP UNIT 4 DECADES 17-452B
INDICATOR & TRIP UNIT 4 DECADES 17-452D
TO E/P 546
TO E/P 835A
TO E/P 835B
DPIC 546
DPIC 835A
DPIC 835B
DPR 835
BOOSTER FAN 1-BF-R-1A (CONTRACT E-69-29)
BOOSTER FAN 1-BF-R-1B (CONTRACT E-69-29)
AD-1015A
AD-1015B
AD-1015C
AD-1015D
EP-1025A
EP-1025B
PE-1025
PHASE SEP. TANKS (104'F.) EL. 931'-6"
SLUDGE & DECANT PUMPS (104'F.) EL. 931'-6"
RHR HEAT X (SOUTH) (130'F.) EL. 931'-6"
RWCU RECIRC. PUMPS (104'F.) EL. 931'-6"
REGEN REACTOR WTR. CLEANUP HEAT X (104'F.) EL. 931'-6"
RHR HEAT X (NORTH) (130'F.) EL. 931'-6"
GENERAL AREA EL. 931'-6"
SAMPLE RACK SR-1C HOOD
RAILROAD CAR AIR LOCK
O.A. INFILTRATION
HATCH EL. 931'-6"
STAIRWELL EL. 931'-6"
HATCH EL. 958'-3"
STAIRWELL EL. 958'-3"
13000 CFM TO DRYWELL TORUS VENT INLETS FOR CONT. SEE DWG. 2022 ZONE E-12
13000 CFM (PURGING)
NEUTRON MONIT. SYSTEM (104'F.) EL. 903'-6"
TIP TENT. ROOM
RHR SYSTEM HT. X. (SOUTH) (130'F.) EL. 903'-6"
PERSONNEL ENT. AREA (104'F.) EL. 903'-6"
RHR SYSTEM HT. X. (NORTH) (130'F.) EL. 903'-6"
ELEVATOR EL. 903'-6"
GENERAL AREA EL. 903'-6" (100'F.)
FUME HOOD
ALT. SHT.DOWN RM. SEE DETAIL " D "
HF-R-1C
HF-R-1A
HF-R-1B
VD-VD1348
VD-VD1346
VD-VD1347
1-F-R-1C
1-F-R-1E
1-F-R-1D
1-F-R-1B
AD-AD1522
AD-AD1520
AD-AD1519
AD-AD1521
AD-AD1524
AD-AD1526
AD-AD1523
AD-AD1525
1-HF-R-1A
1-HF-R-1B
1-FC-R-1G 7000CFM
1-FC-R-1H 10850 CFM
1-FC-R-1E 7750 CFM
1-FC-R-1F 6450 CFM
1-FC-R-1J 10850 CFM
1-FC-R-1KA
1-FC-R-1KB
COOLING COIL
7.5 HP
TIP TENT. ROOM
ELEVATOR EL. 903'-6"
MAIN STEAM T.G.BLDG. TUNNEL
STEAM PIPE TUNNEL
1-1/4" DRAIN
FOR CONT. SEE DWG. 2038 ZONE F-3
FOR CONT. SEE DWG. 2037 ZONE F-1
FOR CONT. SEE DWG. 2037 ZONE D-1
FOR CONT. SEE DWG. 2037 ZONE F-3
ELEV. 881'-9"
ELEV. 859'-9"
ELEV. 903'-6"
AD-1005B,1
AD-1005A,1
AD-1005B,2
AD-1005A,2
VD-VD1005B,1
VD-VD1005A,1
VD-1005B,1
VD-1005A,1
1-SF-R-1A-B
1-SF-R-1A-A
TYP. OF 2
AD-AD1025A2
AD-AD1025A4
AD-AD1025B2
AD-AD1025B3
AD-AD1025A1
AD-AD1025A3
AD-AD1025B1
AD-AD1025B4
1-F-1D-A
1-F-1D-B
AD-1016
DPIC 1025
DPIT 1025
SEE NOTE 3
SEE NOTE 4
SEE NOTE 5
SEE NOTE 10
SEE NOTE 11
SEE DETAIL " B "
SEE DETAIL " D "
AS BUILT
454003608
STATUS: Release
STATUS DATE: 10/15/2018
DS APPROVED: DCWHEAT
VER: AB REV: 63 SIZE: F
FOR PREVIOUS REVISIONS, SEE SUPERSEDED CARDS.
VERSIONS/REVISIONS BY N.P.P.D.
NO. DESCRIPTION DFT DATE ENG
AC/62 DR-2017-0001 DLR 11/7/17 LDNEDDE
AB/63 DR-2016-0453 LS 10/15/18 DCWHEAT
SIGNIFICANT NUMBER
GROUP
DRAWN J.G.A. DATE 4-3-92
CHECKED JW DATE 4-10-92
APPROVED MWH DATE 4-14-92
FILMED
COOPER NUCLEAR STATION
FLOW DIAGRAM
REACTOR BUILDING
HEATING AND VENTILATING
BURNS & ROE
2020
CARD FILE C0006910