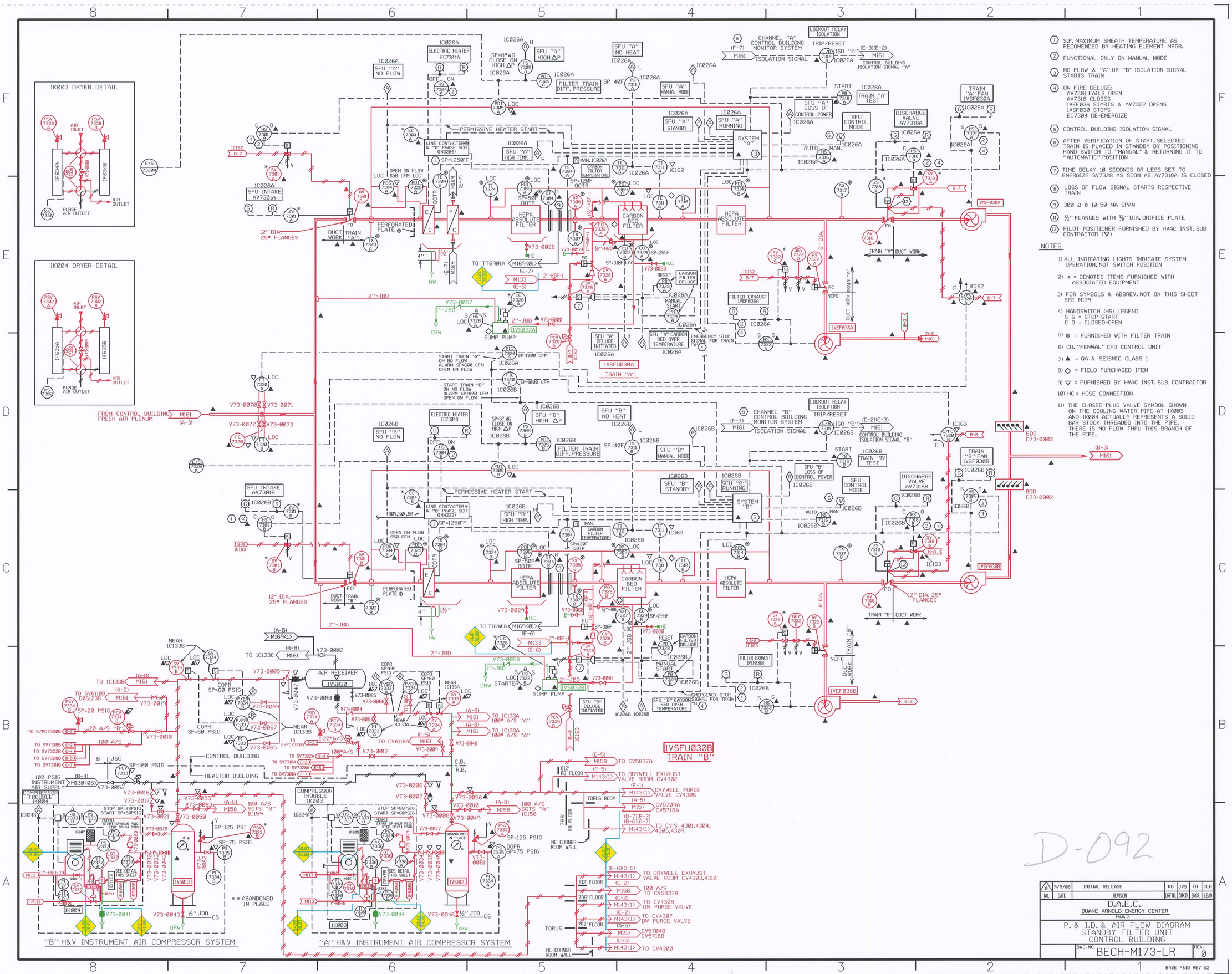
1K003 DRYER DETAIL
1K004 DRYER DETAIL
AIR INLET
AIR OUTLET
PURGE AIR OUTLET
1F634A
1F634B
1F635A
1F635B
FROM CONTROL BUILDING FRESH AIR PLENUM
M161 (A-3)
E/S 7320A
E/S 7320B
SFU "A" NO FLOW
SFU "B" NO FLOW
ELECTRIC HEATER EC7304A
ELECTRIC HEATER EC7304B
OFF ON
PERMISSIVE HEATER START
LINE CONTACTORS & "W" PHASE SCR (IN3206)
480V,3Ø,60
SP=1250°F
SFU INTAKE AV7301A
SFU INTAKE AV7301B
12" DIA. 25" FLANGES
OPEN ON FLOW 650 CFM LOC
DUCT WORK TRAIN "A"
DUCT WORK TRAIN "B"
PERFORATED PLATE
4"
1½"
NW
SP=8"WG CLOSE ON HIGH ΔP
SFU "A" HIGH ΔP
SFU "B" HIGH ΔP
FILTER TRAIN DIFF. PRESSURE
SP 40F
SFU "A" NO HEAT
SFU "B" NO HEAT
SFU "A" MANUAL MODE
SFU "B" MANUAL MODE
SFU "A" STANDBY
SFU "B" STANDBY
SFU "A" HIGH TEMP.
SFU "B" HIGH TEMP.
SFU "A" RUNNING
SFU "B" RUNNING
SYSTEM "A"
SYSTEM "B"
MAN. CARBON FILTER TEMPERATURE
SP=120F OOTR
SP=50F OOTR
HEPA ABSOLUTE FILTER
CARBON BED FILTER
SP=255F
SP=310F
RESET
CARBON FILTER DELUGE
MANUAL START
SFU "A" DELUGE INITIATED
SFU "B" DELUGE INITIATED
SFU "A" CARBON BED OVER TEMPERATURE
SFU "B" CARBON BED OVER TEMPERATURE
EMERGENCY STOP SIGNAL FOR TRAIN "A"
EMERGENCY STOP SIGNAL FOR TRAIN "B"
CHANNEL "A" CONTROL BUILDING MONITOR SYSTEM
CHANNEL "B" CONTROL BUILDING MONITOR SYSTEM
TRIP/RESET
ISOLATION SIGNAL
LOCKOUT RELAY ISOLATION
CONTROL BUILDING ISOLATION SIGNAL "A"
CONTROL BUILDING ISOLATION SIGNAL "B"
SFU "A" LOSS OF CONTROL POWER
SFU "B" LOSS OF CONTROL POWER
SFU CONTROL MODE
AUTO MAN.
START
TRAIN "A" TEST
TRAIN "B" TEST
DISCHARGE VALVE AV7318A
DISCHARGE VALVE AV7318B
TRAIN "A" FAN 1VSF030A
TRAIN "B" FAN 1VSF030B
1VSF030A
1VSF030B
TRAIN "A"
TRAIN "B"
TRAIN "A" DUCT WORK
TRAIN "B" DUCT WORK
6" DIA.
FILTER EXHAUST 1VEF036A
FILTER EXHAUST 1VEF036B
1VEF036A
1VEF036B
NCFC
DUCT WORK TRAIN "A"
DUCT WORK TRAIN "B"
BDD D73-0003
BDD D73-0002
1VSFU030A
TRAIN "A"
1VSFU030B
TRAIN "B"
1VS032A
1VS032B
SUMP PUMP
TO TT6901A
TO TT6901B
2"-JBD
2"-KBF-1
2"-KBD-1
½"-HBD
½"-HBF
V73-0026
V73-0028
V73-0029
V73-0030
V73-0057
V73-0058
V73-0059
V73-0068
V73-0000
V73-0001
V73-0002
V73-0005
V73-0047
V73-0051
V73-0085
V73-0066
V73-0004
V73-0006
V73-0048
V73-0009
V73-0012
V73-0018
V73-0019
V73-0069
V73-0067
V73-0065
V73-0052
V73-0016
V73-0017
V73-0021
V73-0050
V73-0078
V73-0055
V73-0083
V73-0070
V73-0071
V73-0072
V73-0073
V73-0032
V73-0033
V73-0042
V73-0041
V73-0043
V73-0034
V73-0035
V73-0045
V73-0044
V73-0046
V73-0056
V73-0007
V73-0010
V73-0049
V73-0008
V73-0077
V73-0081
AIR RECEIVER 1VS030
AIR RECEIVER 1VS031
AIR RECEIVER 1VS032
AIR RECEIVER 1VS033
AIR RECEIVER 1VS013
AIR RECEIVER 1VS012
COPR SP=60 PSIG
SP=20 PSIG
20 A/S "B"
100 A/S
100 PSIG INSTRUMENT AIR SUPPLY
M130(08)
SP=100 PSIG
CONTROL BUILDING
REACTOR BUILDING
C.B.
R.B.
COMPRESSOR TROUBLE 1K004
COMPRESSOR TROUBLE 1K003
STOP SP=88PSIG START SP=80PSIG
STOP SP=94 PSIG
SP=125 PSI
SP=75 PSIG
SP=125 PSIG
SP=1000 CFM
START TRAIN "A" ON NO FLOW ALARM SP=800 CFM OPEN ON FLOW
START TRAIN "B" ON NO FLOW ALARM SP=800 CFM OPEN ON FLOW
SEE DETAIL THIS SHEET
NOTE 11
1K004
1K003
** ABANDONED IN PLACE
"B" H&V INSTRUMENT AIR COMPRESSOR SYSTEM
"A" H&V INSTRUMENT AIR COMPRESSOR SYSTEM
SGTS "B" IC159
SGTS "A" IC158
TO CV5837A
TO DRYWELL EXHAUST VALVE ROOM CV4302
DRYWELL PURGE VALVE CV4306
CV5704A
CV5718A
TO CV'S 4301,4304, 4305,4309
TO DRYWELL EXHAUST VALVE ROOM CV4303,4310
100 A/S TO CV5837B
TO CV4308 DW PURGE VALVE
TO CV4307 DW PURGE VALVE
TO CV4300
812' RB FLOOR
786' RB FLOOR
757' TORUS
TORUS ROOM
NE CORNER ROOM WALL
1. S.P. MAXIMUM SHEATH TEMPERATURE AS RECOMENDED BY HEATING ELEMENT MFGR.
2. FUNCTIONAL ONLY ON MANUAL MODE
3. NO FLOW & "A" OR "B" ISOLATION SIGNAL STARTS TRAIN
4. ON FIRE DELUGE: AV7301 FAILS OPEN AV7318 CLOSES 1VEF036 STARTS & AV7322 OPENS 1VSF030 STOPS EC7304 DE-ENERGIZE
5. CONTROL BUILDING ISOLATION SIGNAL
6. AFTER VERIFICATION OF START, SELECTED TRAIN IS PLACED IN STANDBY BY POSITIONING HAND SWITCH TO "MANUAL" & RETURNING IT TO "AUTOMATIC" POSITION
7. TIME DELAY 10 SECONDS OR LESS SET TO ENERGIZE SV7328 AS SOON AS AV7318A IS CLOSED
8. LOSS OF FLOW SIGNAL STARTS RESPECTIVE TRAIN
9. 300 Ω @ 10-50 MA SPAN
10. ½" FLANGES WITH ½" DIA. ORIFICE PLATE
11. PILOT POSITIONER FURNISHED BY HVAC INST. SUB CONTRACTOR (▽)
NOTES
1) ALL INDICATING LIGHTS INDICATE SYSTEM OPERATION, NOT SWITCH POSITION
2) * = DENOTES ITEMS FURNISHED WITH ASSOCIATED EQUIPMENT
3) FOR SYMBOLS & ABBREV. NOT ON THIS SHEET SEE M179
4) HANDSWITCH (HS) LEGEND S S = STOP-START C O = CLOSED-OPEN
5) ⊛ = FURNISHED WITH FILTER TRAIN
6) CU. "FENWAL" CFD CONTROL UNIT
7) ▲ = QA & SEISMIC CLASS 1
8) ◇ = FIELD PURCHASED ITEM
9) ▽ = FURNISHED BY HVAC INST. SUB CONTRACTOR
10) HC = HOSE CONNECTION
11) THE CLOSED PLUG VALVE SYMBOL SHOWN ON THE COOLING WATER PIPE AT 1K003 AND 1K004 ACTUALLY REPRESENTS A SOLID BAR STOCK THREADED INTO THE PIPE. THERE IS NO FLOW THRU THIS BRANCH OF THE PIPE.
LR NOTE:
1. ALL EXPOSED DRAIN PIPING AND FUNNELS ARE IN SCOPE FOR LICENSE RENEWAL.
LR LEGEND:
COMPONENTS IN SCOPE PER 10CFR54.4(a)(1) AND/OR (a)(3) AND SUBJECT TO AMR PER 54.21
COMPONENTS NOT SUBJECT TO AMR
COMPONENTS IN SCOPE PER 10CFR54.4(a)(2) AND SUBJECT TO AMR PER 54.21
SYSTEM BOUNDARY INTERFACE
13.01 FIRE PROTECTION
30.00 CONTROL BUILDING HVAC
30.03 "A" & "B" SAFETY RELATED AIR
54.00 EMERGENCY SERVICE WATER
73.01 CONTAINMENT ATMOSPHERE CONTROL
D-092
Ø 9/9/08 INITIAL RELEASE KB JVS TH CLB
NO. DATE REVISION DRFTR. CHK'D. ENGR. LEAD
D.A.E.C.
DUANE ARNOLD ENERGY CENTER
P.& I.D. & AIR FLOW DIAGRAM
STANDBY FILTER UNIT
CONTROL BUILDING
DWG. NO. BECH-M173-LR
REV. Ø
BASE P&ID REV 52