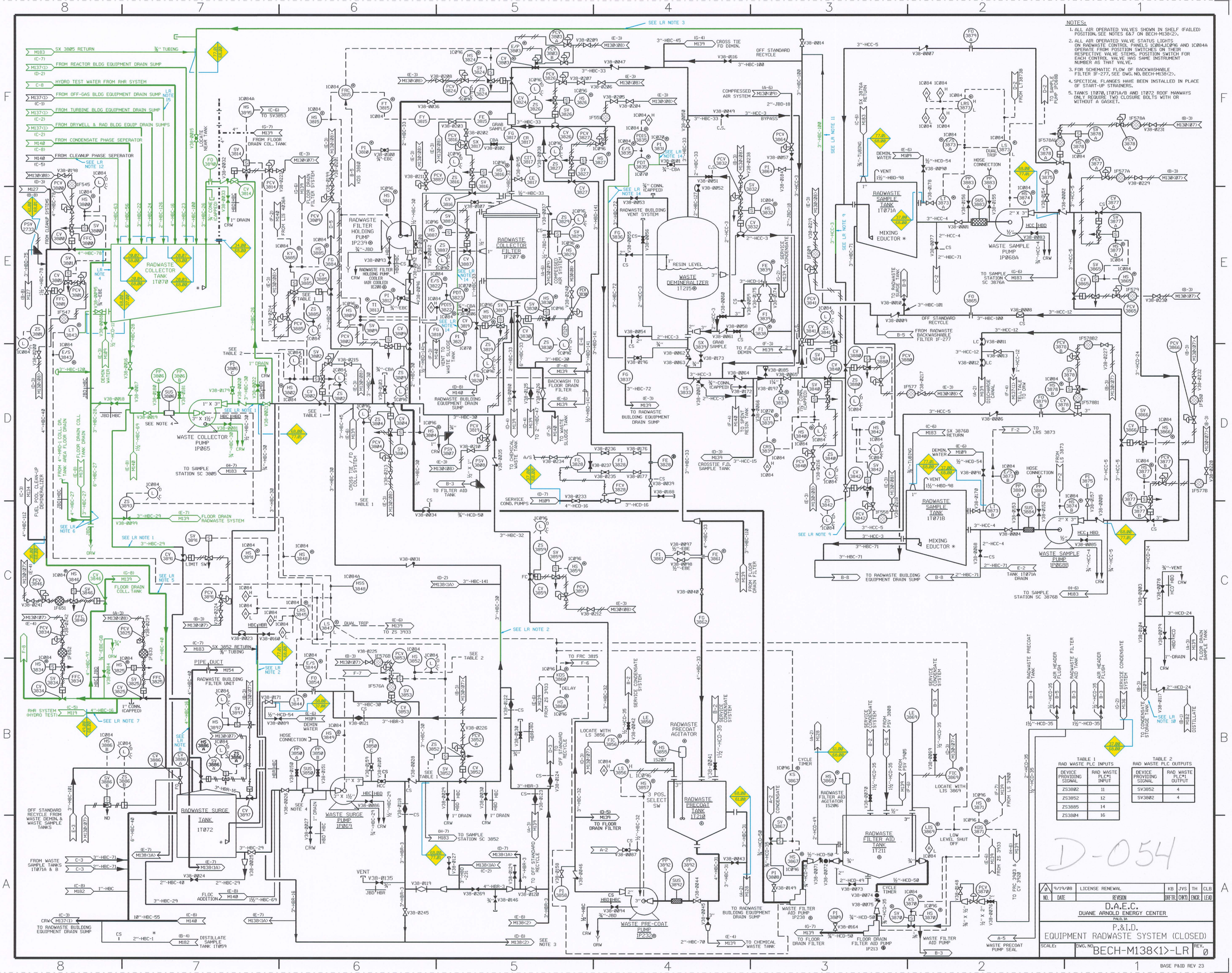

NOTES:

1. ALL AIR OPERATED VALVES SHOWN IN SHELF (FAILED) POSITION. SEE NOTES 6&7 ON BECH-M138<2>.
2. ALL AIR OPERATED VALVE STATUS LIGHTS ON RADWASTE CONTROL PANELS 1C004,1C096 AND 1C084A OPERATE FROM POSITION SWITCHES ON THEIR RESPECTIVE VALVE STEMS. POSITION SWITCH FOR EACH CONTROL VALVE HAS SAME INSTRUMENT NUMBER AS THAT VALVE.
3. FOR SCHEMATIC FLOW OF BACKWASHABLE FILTER IF-277, SEE DWG. NO. BECH-M138<2>.
4. SPECTICAL FLANGES HAVE BEEN INSTALLED IN PLACE OF START-UP STRAINERS.
5. TANKS 1T070, 1T071A/B AND 1T072 ROOF MANWAYS ONLY REQUIRE TWO CLOSURE BOLTS WITH OR WITHOUT A GASKET.

LR NOTES:

1. THE 3"-HBC-29 IN THE REACTOR BUILDING IS IN-SCOPE. THE 3"-HBC-30 PIPING IN THE REACTOR BUILDING BEFORE GOING INTO THE SPENT RESIN TANK ROOM AND THE JUNGLE ROOM IS IN-SCOPE. (C-7&D-7)
2. THE 3"-HBC-30 PIPING IN THE RADWASTE HVAC EQUIPMENT ROOM IS IN-SCOPE. (B-7)
3. THE 3"-HBC-100 PIPING OUTSIDE THE JUNGLE ROOM IN THE REACTOR (F-4) BUILDING IS IN-SCOPE FOR CRITERION (a)(2).
4. THE 4"-HBC-78 PIPING IN THE REACTOR BUILDING IS IN-SCOPE FOR CRITERION (a)(2), (E-8)
5. THE 4"-HBC-40 PIPING IN THE HVAC EQUIPMENT ROOM IS IN-SCOPE FOR CRITERION (a)(2). THE 4"-HBC-40 AND 4"-HBC-78 PIPING IN THE RADWASTE BUILDING AND THE JUNGLE ROOM ARE NOT IN SCOPE. (C-7)
6. THE 6"-HBC-27, 3"-HBC-27, 4"-HBC-27, AND 3"-HBC-28 PIPING IN THE REACTOR BUILDING IS IN-SCOPE FOR CRITERION (a)(2), (C-8).
7. THE 4"-HBC-16, AND 4"-HBC-97 PIPING AND COMPONENTS IN THE REACTOR BUILDING OUTSIDE THE C/U SLUDGE DISCHARGE MIX PUMP ROOM ARE IN-SCOPE FOR CRITERION (a)(2), (B-7).
8. ONLY THE 4"-HBC-16 PIPING IN THE HVAC EQUIPMENT ROOM IS IN-SCOPE FOR CRITERION (a)(2), (B-7)
9. ONLY THE 3"-HCC-3 PIPING IN THE HVAC EQUIPMENT ROOM IS IN-SCOPE FOR CRITERION (a)(2), (C-3&E-3)
10. THE 3"-HCD-24 PIPING IN THE REACTOR BUILDING WOULD BE IN-SCOPE FOR CRITERION (a)(2), BUT IT IS ROUTED THROUGH AN ENCLOSED PIPE CHASE WHICH PROTECTS OTHER COMPONENTS FROM ANY SPATIAL AFFECT. (B-1)
11. ONLY THE 3"-HBC-100 PIPING IN THE HVAC EQUIPMENT ROOM IS IN-SCOPE FOR CRITERION (a)(2), (F-3)
12. THE 2"-HBC-63 PIPING OUTSIDE THE SPENT RESIN PUMP ROOM IN THE REACTOR BUILDING IS IN-SCOPE FOR CRITERION (a)(2), (F-8).
13. EXPOSED DRAIN PIPING IS IN-SCOPE FOR LICENSE RENEWAL BECAUSE IT AFFECTS SAFETY RELATED EQUIPMENT.
14. THE TUBING OR PIPING OUTSIDE THE JUNGLE ROOM TO PANEL 1C-070 IN THE REACTOR BUILDING IS IN-SCOPE FOR CRITERION (a)(2), (F-4&D-5)
15. ONLY THE 2"-HBC-126 PIPING IN THE REACTOR BUILDING IS IN-SCOPE. THE 2"-HBC-126 PIPING IN THE OFF-GAS RETENTION BUILDING IS NOT IN-SCOPE. (F-8)

TABLE 1
RAD WASTE PLC INPUTS

DEVICE PROVIDING SIGNAL	RAD WASTE PLC#1 INPUT
ZS3802	11
ZS3852	12
ZS3885	14
ZS3804	16

TABLE 2
RAD WASTE PLC OUTPUTS

DEVICE PROVIDING SIGNAL	RAD WASTE PLC#1 OUTPUT
SV3852	4
SV3802	4

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

- 20.02 TURBINE BUILDING SUMPS
- 20.03 REACTOR BUILDING SUMPS
- 20.04 DRYWELL SUMPS
- 20.07 OFF-GAS BUILDING SUMPS
- 34.00 REACTOR BUILDING HVAC
- 35.00 FUEL POOL COOLING AND CLEAN-UP
- 37.00 CONDENSATE AND DEMINERALIZED WATER
- 49.00 RESIDUAL HEAT REMOVAL
- 61.00 REACTOR WATER CLEAN-UP
- 68.00 SOLID RADWASTE
- 77.01 REACTOR BUILDING AND RADWASTE BUILDING SAMPLING

D-054

NO.	DATE	REVISION	DRFTR	CHKD	ENGR	LEAD
0	9/19/00	LICENSE RENEWAL	KB	JVS	TH	CLB

D.A.E.C.
DUANE ARNOLD ENERGY CENTER
PALO, IA

P.&I.D.
EQUIPMENT RADWASTE SYSTEM (CLOSED)

SCALE: | DWG. NO. BECH-M138<1>-LR | REV. 0

BASE P&ID REV 23