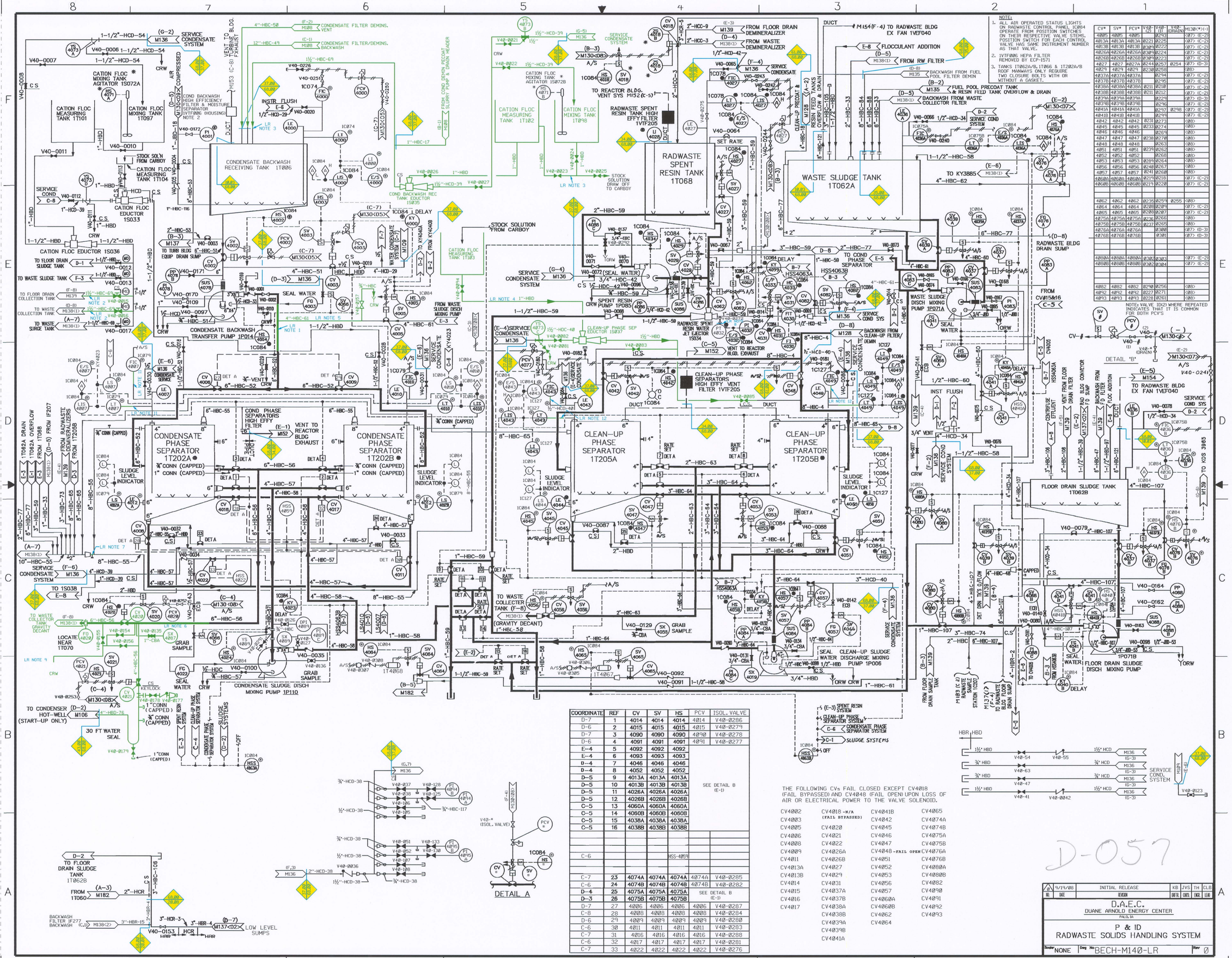

NOTE:
1. ALL AIR OPERATED STATUS LIGHTS ON RADWASTE CONTROL PANEL 1C084 OPERATE FROM POSITION SWITCHES ON THEIR RESPECTIVE VALVE STEMS. POSITION SWITCH FOR EACH CONTROL VALVE HAS SAME INSTRUMENT NUMBER AS THAT VALVE.
2. IVTF006 HEPA FILTER REMOVED BY ECP-1571
3. TANKS 1T062A/B, 1T066 & 1T202A/B ROOF MANWAYS ONLY REQUIRE TWO CLOSURE BOLTS WITH OR WITHOUT A GASKET.

CV*	SV*	PCV*	V40-(1)	V40-(DRAIN)	M130<#>(-)
4005	4005	4005		0293	<07> (E-2)
4013A	4013A	4013A	0221	0225	<07> (C-2)
4013B	4013B	4013B	0389	0222	<07> (C-2)
4026A	4026A	4026A	0389	0224	<07> (C-2)
4026B	4026B	4026B	0389	0223	<07> (C-2)
4027	4027	4027A	0244	0257	0254 <07> (D-3)
4029	4029	4029	0230	0258	<08>
4037A	4037A	4037A		0294	<07> (C-2)
4037B	4037B	4037B		0295	<07> (C-2)
4038A	4038A	4038A	0211	0210	<07> (C-2)
4038B	4038B	4038B	0211	0212	<07> (C-2)
4039A	4039A	4039A		0229	<07> (D-3)
4039B	4039B	4039B		0296	<07> (E-2)
4041A	4041A	4041A		0297	0298 <07> (D-3)
4041B	4041B	4041B		0299	<07> (E-2)
4042	4042	4042	0231	0273	<08>
4045	4045	4045	0233	0274	<08>
4046	4046	4046		0269	<08>
4047	4047	4047	0238	0270	<08>
4048	4048	4048		0263	<08>
4051	4051	4051	0239	0262	<08>
4052	4052	4052		0268	<08>
4053	4053	4053	0289	0264	<08>
4056	4056	4056	0240	0267	<08>
4057	4057	4057	0241	0268	<08>
4060A	4060A	4060A	0219	0218	<07> (C-2)
4060B	4060B	4060B	0219	0220	<07> (C-2)
4062	4062	4062	0235	0259	0255 <08>
4064	4064	4064	0280	0209	<07> (C-2)
4065	4065	4065	0280	0207	<07> (C-2)
4075A	4075A	4075A	0236	0266	<08>
4075B	4075B	4075B	0237	0265	<08>
4076A	4076A	4076A		0300	<07> (D-3)
4076B	4076B	4076B		0301	<07> (D-3)
4080A	4080A	4080A	0302	0303	<07> (E-2)
4080B	4080B	4080B	0302	0304	<07> (E-2)
4082	4082	4082	0290	0256	<08>
4092	4092	4092	0227	0271	<08>
4093	4093	4093	0228	0261	<08>

NOTE: VALVE (DC2) WHERE REPEATED INDICATES THAT IT IS COMMON FOR BOTH PCV'S

COORDINATE	REF	CV	SV	HS	PCV	ISOL. VALVE
D-7	1	4014	4014	4014	4014	V40-0286
D-6	2	4015	4015	4015	4015	V40-0279
D-7	3	4090	4090	4090	4090	V40-0278
D-6	4	4091	4091	4091	4091	V40-0277
E-4	5	4092	4092	4092		
E-4	6	4093	4093	4093		
D-4	7	4046	4046	4046		
D-4	8	4052	4052	4052		
D-5	9	4013A	4013A	4013A		
D-5	10	4013B	4013B	4013B	SEE DETAIL B (E-1)	
D-5	11	4026A	4026A	4026A		
D-5	12	4026B	4026B	4026B		
C-5	13	4060A	4060A	4060A		
C-5	14	4060B	4060B	4060B		
C-5	15	4038A	4038A	4038A		
C-5	16	4038B	4038B	4038B		
C-6				HSS-4059		
C-7	23	4074A	4074A	4074A	4074A	V40-0285
C-6	24	4074B	4074B	4074B	4074B	V40-0282
D-4	25	4075A	4075A	4075A	SEE DETAIL B (E-1)	
D-3	26	4075B	4075B	4075B		
D-7	27	4006	4006	4006	4006	V40-0287
C-8	28	4008	4008	4008	4008	V40-0284
D-6	29	4009	4009	4009	4009	V40-0280
C-6	30	4011	4011	4011	4011	V40-0283
C-7	31	4016	4016	4016	4016	V40-0288
C-6	32	4017	4017	4017	4017	V40-0281
C-7	33	4022	4022	4022	4022	V40-0276

THE FOLLOWING CVs FAIL CLOSED EXCEPT CV4018 (FAIL BYPASSED) AND CV4048 (FAIL OPEN) UPON LOSS OF AIR OR ELECTRICAL POWER TO THE VALVE SOLENOID.

CV4002	CV4018 -N/A (FAIL BYPASSED)	CV4041B	CV4065
CV4003		CV4042	CV4074A
CV4005	CV4020	CV4045	CV4074B
CV4006	CV4021	CV4046	CV4075A
CV4008	CV4022	CV4047	CV4075B
CV4009	CV4026A	CV4048 -FAIL OPEN	CV4076A
CV4011	CV4026B	CV4051	CV4076B
CV4013A	CV4027	CV4052	CV4080A
CV4013B	CV4029	CV4053	CV4080B
CV4014	CV4031	CV4056	CV4082
CV4015	CV4037A	CV4057	CV4090
CV4016	CV4037B	CV4060A	CV4091
CV4017	CV4038A	CV4060B	CV4092
	CV4038B	CV4062	CV4093
	CV4039A	CV4064	
	CV4039B		
	CV4041A		

LR NOTES:
1. THE HBC-52 PIPING OUTSIDE THE COND B/W RECEIVING PUMP ROOM IN THE TURBINE BUILDING AND THE PIPING IN THE REACTOR BUILDING BEFORE GOING INTO THE COND PHASE SEPARATOR PUMP ROOMS ARE IN SCOPE FOR CRITERION (a)(2).
2. V40-0015, V40-0016, AND THE 1½"-HBC-69 PIPING IN THE REACTOR BUILDING IS IN SCOPE FOR CRITERION (a)(2).
3. THE HBD, HCD-39, HBC-49 AND HBC-50 PIPING AND COMPONENTS IN THE TURBINE BUILDING UNTIL IT GOES INTO THE COND B/W RECEIVING PUMP ROOM AREA ARE IN SCOPE FOR CRITERION (a)(2).
4. THE PIPING AND COMPONENTS ON THE 1½"-HDC-40 LINE OUTSIDE THE C/U SLUDGE DISCHARGE MIX PUMP ROOM IN THE REACTOR BUILDING IS IN SCOPE PER CRITERION (a)(2). 1T103, 1S037, THE 1"-HBD AND THE 1½"-HBD PIPING AND COMPONENTS IN THE REACTOR BUILDING BEFORE GOING INTO CLEAN-UP PHASE SEPARATOR ROOMS IS IN SCOPE FOR CRITERION (a)(2).
5. THE 4"-HBC-61 PIPING AND THE ¾" VENT LINE AND VALVE IN THE REACTOR BUILDING ARE IN SCOPE FOR CRITERION (a)(2).
6. THE 6"-HBC-56 PIPING AND COMPONENTS AND BRANCH LINES OUTSIDE THE CONDENSATE PHASE SEPARATOR ROOM IN THE REACTOR BUILDING ARE IN SCOPE FOR CRITERION (a)(2).
7. THE 8"-HBC-55 OUTSIDE THE CONDENSATE PHASE SEPARATOR ROOM IN THE REACTOR BUILDING BEFORE GOING INTO THE JUNGLE ROOM IS IN SCOPE FOR CRITERION (a)(2).
8. THE PIPING OUTSIDE THE SPENT RESIN TANK ROOM TO INSTRUMENT PT4032 IS IN SCOPE FOR CRITERION (a)(2).
9. ALL EXPOSED DRAIN PIPING IS IN SCOPE FOR LICENSE RENEWAL BECAUSE IT AFFECTS SAFETY RELATED EQUIPMENT.
10. NOT USED
11. TUBING OR PIPING OUTSIDE THE C/U SLUDGE DISCH MIX PUMP ROOM TO PANEL 1C-79 IS IN SCOPE FOR CRITERION (a)(2).
12. TUBING OR PIPING OUTSIDE THE C/U SEPARATOR ROOM TO PANEL 1C-127 IS IN SCOPE FOR CRITERION (a)(2).

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
- 10.03 PLANT VENTILATION
- 20.08 LLRPSF AREA SUMPS
- 34.00 REACTOR BUILDING HVAC
- 35.00 FUEL POOL COOLING AND CLEAN-UP
- 37.00 CONDENSATE AND DEMINERALIZED WATER
- 43.00 CONDENSATE AND CONDENSER AIR REMOVAL
- 61.00 REACTOR WATER CLEAN-UP
- 68.00 SOLID RADWASTE SYSTEM

D-057

NO	DATE	REVISION	DRFTR	CHKD	TNGR	LEAD
1	9/19/08	INITIAL RELEASE	KB	JVS	TH	CLB

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

P & ID
RADWASTE SOLIDS HANDLING SYSTEM

Scale NONE | Dwg No BECH-M140-LR | Rev 0

BASE P&ID REV 60