

Implementations of NIOSH Recommendations

Louisville Plant

March 22, 1974

Distribution

J. J. Bell	Akron WHB5
A. W. Clements	Long Beach
C. B. Cooper	Henry
B. A. DiLiddo	ALTC
R. J. Fawcett	Brecksville
C. R. Flynn	Cleveland
E. W. Harrington	Cleveland
M. N. Johnson	Akron WHB
E. B. Katzenmeyer, Jr.	Akron WHB
F. E. Krause	ALTC
J. F. Malone	Cleveland
J. L. Nelson	Cleveland
G. Pow	Cleveland
R. N. Rylands	ALG
G. D. Schaaf	Cleveland
R. D. Scott	Cleveland
R. W. Strasburg	Akron WHB
A. Vittone	Cleveland
H. Waltemate	Cleveland
P. J. Weaver	Cleveland
A. R. Webber	Pedricktown
W. J. Wilcox	Cleveland
C. L. Woods	Calvert City
B.M.G. Zwicker	Cleveland
P. H. Lawrence	Louisville
P. A. Wagner	
S. S. Michels	
H. H. Striby	
W. K. Pember	
M. D. Schrader	
J. Robben	
R. R. Taylor	
R. S. Kinnamon	
L. D. Pringle	
H. E. Barrett	

20356001

Location: Louisville

Week Ending March 22, 1974

Major Goal: Implementation of NIOSH Recommendations

Recommendation	Person Responsible	Completion Date	Status and Comments
I. General Housekeeping Procedures			
A. Spillage Control:			
1. PVC Removal	Kinnamon/Pringle	Completed	
2. Closed Containers for Recovered PVC	Kinnamon/Pringle	Completed	
3. Closed Containers for Waste PVC	Kinnamon/Pringle	Completed	
B. Inventory	Widzer	Completed	
C. PVC From Overhead Structures and Conduit	Holstein	Completed	We will have to maintain these beams, etc. with our personnel using our own vacuum equipment.
D. Separate Eating Facilities	Pember	Completed	
II. Protective Clothing			
A. Daily Change of Clothing	Pember	Completed	
B. Protective Gloves Protective Footwear or Footcovers	Kinnamon/Pringle Schrader	Completed	Will use rubbers or boots in any wet vessels. No foot covering required in polys which have been HRC cleaned.
C. Protective Head Covers	Kinnamon/Pringle	Completed	
D. Impervious Suits	Kinnamon/Pringle Schrader	Completed	Investigating a more comfortable head covering Using light weight disposable suits.

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Recommendation	Person Responsible	Completion Date	Status and Comments
CII. Showers	Pember	Completed	
IV. Monitoring			
A. Environmental:			
1. Reactors	Robben	Continuing	Getting at least 3 passes/shift bendix units operating in B/115 and 121. Expect B/1 & 111 to be in next week.
2. Establish fixed points	Robben/Kute	Completed	
3. 50 ppm maximum VCI levels	Wagner	Completed*	See building averages below.
4. Measure VCI in exhaust	Robben/Horrell	Continuing	Testing underway. See attached results.
5. Monitoring for PVC particulates	Robben	Uncertain	Awaiting instructions from Katzenmeyer. Expect him in Louisville by 4-13-74.
B. Personal Monitoring:			
1. Eight hour samples	Robben	4-27-74	Continuing work sampling
2. Breathing zone samples	Robben	Uncertain	Awaiting instructions from Katzenmeyer.
V. Respiratory Protection			
A. Air supplied respirators in polys	Kinnamon/Pringle	Completed	
B. Dust respirators	Kinnamon/Pringle	Completed	
C. Self-contained breathing apparatus for tank car unloading	Cundiff	Completed	Have reverted to Scott Air Pak for this work.
D. Other operations	Kinnamon/Pringle	Completed	Using respirators where possibility of exposure to <30 ppm concentration exists.

* Bldg. 1 16 Bldg. 15 15
 Bldg. 111 17 Bldg. 115 38
 Bldg. 121 13 Bldg. 4 2

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VCL MONITORING DATA ATMOS. VENTS, EXHAUST & BLDG. EXHAUST

BLDG 1
PAGE 1

		3-12-73	3-14-73	3-20-74		
1	CHARGING WATER RELIEF LINE	-	9	16		
2	#1 POLY MANHEAD RELIEF LINE		9	9		
3	#1 BD TANK RELIEF	-		CAPPED		
4	#1 BD TANK MANUAL VENT			STEAM		
5	#2 BD TANK RELIEF	-		STEAM		
6	#2 BD TANK MANUAL VENT			11		
7	RELIEF LINE PT 18 ALCOHOL TR.			10		
8	RELIEF LINE FOR VCL METER CALIBRATION TR.			15000		
9	RELIEF ON RECOVERY SYSTEM FOR #6 BDT			10		
10	RELIEF FOR PT 18 WFT TANK			10		
11	RELIEF FOR #4 BDT			9		
12	MANUAL VENT FOR #4 BD TANK			CAPPED		
13	RELIEF FOR #6 BD TANK			"		
14	MANUAL VENT FOR #6 BD TANK			9		
15	MANUAL VENT LINE FOR NORTH END POYS			CAPPED		
16	VENT FOR INSULATION		10	STEAM		
17	MANUAL VENT FOR #5 BD TANK					
18	RELIEF FOR #5 BD TANK			8		
19	COMPRESSED METHANE 1K RELIEF LINE		12	25		
20	MANUAL VENT FOR #3 BD TANK			9		
21	RELIEF LINE FOR #3 BD TANK			25		
22	RELIEF LINE INSULATION WATER HEATER			9		
23	" " " " LINE			25		
24	NORTH VCL CHARGING METER RELIEF LINE	CAPPED	-	9		
25	SOUTH VCL " " " "	1/10	200	9		
26	MANUAL VENT FOR SOUTH END POYS		12	9		
27	VCL HOT TANK RELIEF LINE			9		
28	SOUTH VACUUM JET			CAPPED		
29	BLEND TANK EXHAUST			9		
30	BLOWDOWN TANK VACUUM JET	STEAM	STEAM	9		
31	" " " " "	STEAM	STEAM	70		
32	NORTH VACUUM JET		STEAM	CAPPED		
33	POLY EVALUATION EXHAUST	80	60	20		
34	SEWER DRAIN FROM RECOVERY KU DRYER			7		

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BLDG 1 PAGE 2

20356005

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VOL. INVENTORY OF ATMOS. VENTS, EXHAUST, BLDG. EXHAUST

BLDG 15 PAGE 1

AB = ABANDONED

DATE
TIME

3-20-74
9:30 AM

1	EMERGENCY POLY VENT REC. LINE	16			
2	EMERGENCY POLY VENT VACUUM LINE	12			
3	AB - OLD VENT LINE VCL, SENSOR LINE	3			
4	EAST VACUUM STEAM JETS	2			
4-A	EMERGENCY POLY VENT REC. LINE	"			
5	AB	7			
6	R.V. REC. H ₂ O SEAL TANK	6			
7	WEST VACUUM STEAM JETS	2			
8	REPL. VALVES ON MIX SCALES 3-7-11-14-18	7			
9	AB	7			
10	N ₂ VENT E.A. SCALE FOR #16 POLY	8			
11	VENT FOR #6 MIX SCALE	90			
12	VENT FOR SOPE SCALES FOR 6316 POLYS	8			
13	REL. VALVES FOR E.A. SCALE #16 #1 - #12 & #18 - #5 MIX SCALES	Typed			
14	REL. VALVES FOR MIX SCALES #2 - #10 - #15	25			
15	AB	6			
16	AB	8			
17	MANUAL VENT B.D. TANK	9			
18	REL. VALVE B.D. TANK	12			
19	#2 BL. TK. EXHAUST FAN	8			
20	VENT LINE #3 C.R. SCALES	25			
21	VENT LINE FOR #7-#9 C.R. SCALES	12			
22	REL. VALVE VCL STRAINER - CHG SYS	12			
23	IEB VENT LINE	40			
24	REL. VALVES ON VCL LINES CHG SYS.	7			
25	AB	10			
26	REL. VALVE H ₂ O K.O. TK - REC SYS.	20			
27	VAC. STEAM JET - R. B.D. TK.	1			
28	AB. COLD ROOM VENT				
28-A	EXHAUST FAN RESCURRY TK.				
28-B	AB				
29	CLAY MAKE-UP TK. VENT	8			
30	VENT LINE #10 R. D. ON C.R. SCALES				
31	AB - OLD VENT REC SYS				
32	VENT - FILTRATE TK	7			
33	VENT - #1 OLD ALCOHOL STILL	7			
34	VACUUM STEAM JET	7			

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ATMOS. VENTS, EXHAUST, BLDG. EXHAUST

BLDG 15 PAGE 2

DATE
TIME

3-21-74
3:01 AM

35	VENT LINE OFF CL ₂ line TO #26-27 POLYS	
35A	R.D. ON SOL. RESIN WT. TK	
35B	REL. VALVE AIRLINE TO CL ₂ VAP	"
36	VENT LINE SOLN. RES. WT. TK	
37	MANUAL VENT LINE SOLN. RES. MIX TK	50
38	R.D. LINE FOR SOLN. RES. MIX TK	20
39	AB	7
40	REL. LINE VCL CAUSTIC SCRUBBER - AB	
40A	R.V. LINE FROM SIEVE TRAY (ALCOHOL STILL)	
41	INTAKE FAN FOR SOLN RESIN CONTROL ROOM	6
42	VENT-WASTE GRAVITY ROTAMETER #2 STILL	5
42A	R.V. LINE #2 ALCOHOL STILL	
42B	R.D. TOP OF #2 STILL	
43	R.D. #20 POLY	Control
44	R.D. #21 POLY	11
45	R.D. #22 POLY	Control
46	R.D. #23 POLY	"
47	R.D. #24 POLY	30
48	R.D. #25 POLY	Flange
49	#1 DRY DAY COLL. EXHAUST FAN	17
50	CONV. FAN - SOLN. RESIN TO STORAGE BIN	12
51	MANUAL VENT #12	Control
52	MANUAL VENT #14	"
53	MANUAL VENT #15	"
54	MANUAL VENT #19	"
55	R.D. #9 POLY	40
56	MANUAL VENT #9 POLY	Control
57	MANUAL VENT #5 POLY	"
58	R.D. LINE #5 POLY	"
59	COLD POWER FAN PACOLL. R.D. DRYER	7
60	MANUAL VENT #12	Control
61	" " #11	10
62	" " #7	Control
63	" " #8	"
64	" " #4	"
65	" " #3	"
66	#1-#2-#3 BL. TK'S EXHAUST FAN	Sheds

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ATMOS. VENTS, EXHAUST, BLDG. EXHAUST

BLDG 15 PAGE 3

DATE
TIME

67	MANUAL VENT #2 POLY	12							
68	" " #1 "	20							
69	R.D. #6 POLY	Capped							
70	MANUAL VENT #6 POLY	10							
71	REL. VALVE #6 POLY	Capped							
72	R.D. x REL. VALVE #16 POLY	"							
73	R.D. #10 POLY	"							
74	MANUAL VENT #10 POLY	"							
75	REL. VALVE #10 POLY	"							
76	VENT FROM VCL DRAIN TK	"							
77	1ST STAGE EXHAUST BLOWER - RD. DRYER	15							
78	POLY EXHAUST FAN	10							
79	VENT FROM 1-2-4-5-6-8 COLDROOM SCALE TKS	200							
80	AB	200							
81	VENT #26 POLY VAC. LINE	15							
82	VENT OLD WET ALCOHOL TK	7							
83	VCL CHG. LINE TO SOLN RES. POLYS #26-27	2000							
84	SA ROOM REACTOR EXHAUST FAN	18							
85	MAN. VENT #27 POLY VAC LINE	18							
86	VENT #27 POLY MIX TK.	"							
87	R.D. #27 " " "	"							
88	VENT FROM CONDENSATE TK 5A	5000							
89	R.D. SOLN. RESIN B.D. TK	"							
90	VENT KOH MAKE-UP TK	175							
91	B.D. TK MANUAL VENT LINE	10							
92	R.D. LINE OFF VCL Rec. Line	Capped							
93	Exhaust Fan from S200 Making TK	"							
94	Relief line Water Injection (AB)								
95	AB	15							
96	AB	Capped							
97	MANUAL VENT #13 POLY	"							
98	R.D. #13 POLY	"							
99	MANUAL VENT #17 POLY	1000							
100	R.D. #17 POLY	Capped							
101	MANUAL VENT MIX SCALES 1-14-19-15-10-11-7-5-9-2-3	Flange cut							

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ATMOS. VENTS, EXHAUST, BLDG. EXHAUST

BLDG 15

DATE
TIME

LOWER LEVEL					
1	AB	7			
2	VENT FROM CAUSTIC ADDN. TO FILTRATE	7			
3	#3 SILO 2nd STG CYCLONE SOLN. RES.	15			
4	1st STG CYCLONE SOLN. RES.	55			
5	VENT FROM SIEVE TRAY	12			
6	EXH. STACK FLOWER - SOLN. RES. ROTEX	9			
7	VENT FROM MECH ACCUMULATOR TK	7			
7-A	REL. VALVE #3 MECH CONDENSER				
7-B	REL. VALVE COOLING JACKET #3 still				
7-C	REL. VALVE TOP #3 STILL				
8	#2 CYCLONE Soln Resin	225			
9	#1 SILO 2nd sta Cyclone Soln Res.	12			
10	Rel. line #1 & #2 FLUIDIZERS	10			
11	Rel. Line for VCL vaporizers	9			
X ₁	MANUAL VENT #26 POLY	13			
X ₂	R.D " "	"			
X ₃	R.D #27 POLY	"			
X ₄	MANUAL VENT " "	"			
YARD AREA BETWEEN BLDG. 1 & 15					
1	EXHAUST FROM #100YR BLDG 15 (HEADWIND)				
2	VENT FROM LATEX TANK				
3	VENT " WET ALCOHOL TK				
4	VENT " DRI " TK				
5	VENT FROM CHLOROFORM TK				

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BLDG III

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LINE NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL	REMARKS
1	EXHAUST SOAP MAKE UP TANK	1400	300	70		
2	EXHAUST, REFIN THICK & PIT AREA	400	100	30	20	
3	POLY EVACUATION EXHAUST	17	80	24	16.5	
4	RELIEF VENT FOR K.O. TANKS (WEST SIDE)	-	-	-	-	CAPPED
5	" " " " " "	-	-	-	-	
6	" " " " " "	-	-	-	-	
7	" " " " " "	-	-	-	-	
8	" " " " " " (EXIT SIDE)	-	-	-	-	
9	" " " " " "	-	-	-	-	
10	POLY EVACUATION EXHAUST	25	60	90	200	
11	MANHOLE VENT ACRYLATE SCALE TANK	700	70			
12	MANHOLE VENT VINYL ACRYLATE TANK	30	30	50	15	
13	VENT ACRYLATE SCALE TANK	15	24			
14	VENT STAINLESS STEEL TANK	11	15			
15	RELIEF VENT ACRYLATE SCALE TANK	15	11			
16	PREMIX PITY CHASING NOZZLE (3)	15	9			
17	RELIEF FOR DOWN DOWN TANKS 2ND	-	-	-	-	CAPPED
18	" " " " " "	-	-	-	-	
19	RELIEF VENT ACRYLATE SCALE TANK	20	40			
20	RELIEF FOR ACRYLATE SCALE TANK	-	-	-	-	CAPPED
21	RELIEF VENT SCALE TANK 1ST CARD ROOM	12				
22	" " " " " "	11				
23	RELIEF EXHAUST FOR EAST WTL	16				
24	" " " " " " (EAST SIDE)	17				
25	" " " " " " (EAST SIDE)	15				
26	" " " " " " (EAST SIDE)	22				
27	" " " " " " (EAST SIDE)	21				

BLDG / 21