Sauget, Illinois

January 28, 1970

CC: Messrs.
G. L. Bratsch
R. M. Blowers
T. W. Dalton
D. W. Jackson
W. A. Kuhn - G.O.
J. J. Luecken
C. B. Williams

1970 AROCLOR GROUP OBJECTIVES

I. SAFETY AND HOUSEKEEPING

A. Objectives

1. No serious injuries for Dept. 246 and maintenance personnel in 246 area.
2. No disabling injuries for Dept. 246 and maintenance personnel in 246 area.
3. 0.75 minor injuries per man per year for Dept. 246 personnel.
4. Three minor injuries per year for all maintenance personnel while in Dept. 246.

CHECK WITH YOUNG

5. AA+ IN NOISE

B. Actions

	EDC	Responsibility
1. Evaluate need for sight glasses where they exist in preparation for plant wide change to Pres-Sure glasses.	4/1	TSD/Prod.
2. Supply department data to comply with WGK Procedure L-40.	4/1	Production
3. Use safety device and interlock system inspection frequency developed for department.	Con-tin uing	Production
4. Install addition to fume removal system.	7/1	TSD
5. Issue quarterly status for Safety Audit.	4/15	Production
6. Evaluate gas mask location/ relocation to control room.	4/1	Safety/ Production
7. Install ramp for lime delivery to 2nd level.	2/1	Maintenance
8. Install concrete pad for fork lift lime delivery.	7/1	Mech.Design
9. Make safety evaluation of drum leanto.	1/1	Mech.Design
10. Review grounding of Equipment	4/1	Maint./Prod.
a. List equipment to be grounded	2/1	Maint./Prod.
b. Implement grounding	4/1	Maint.
11. Establish equipment preventive maintenance procedure(SIAM).	1/1	Maint.
12. Extend elevator to 29 foot level.	5/1	Maint.
13. Widen walkway around fume scrubber.	5/1	Maint.
14. Complete repairs on ONA explosion damage.		Maint.
15. Install alarm in drumming station.	6/1	E&I

II. QUALITY

A. Objectives

1. Maintain 1969 Aroclor Quality Level

	1969 1242	1254
a. Resistivity(10^9 OHM-CM)	3021	19785
b. Power Factor(% at 60 CY)	2.09	0.61
c. TCC(PPM)	0.15	0.52

2. Customer Complaints: <0.3/100 shipments
   (1969 Actual: 0.51/100 shipments)
3. Improve reproduceability of electrical analysis.

B. Actions

	EDC	Responsibility
1. Resolve status of new electrical analysis(dependent on lab air scrubber).	1/1	Laboratory
2. Determine reasons for and correct discrepancies between lab analysis and in-line instrument indications of electrical properties.	*	TSD
3. Define effects of storage retention.	*	TSD
4. Define quality degradation during loading; need for loading through Porocel.	*	TSD
5. Evaluate need for isolated area for Aroclor analytical work.	*	Laboratory
6. Improve maintenance of Aroclor quality in sampling bottles. (Dependent on Action No.1 also). a. Sulfur treated bottles b. Bottles at constant temperature	*	Production
7. Install facilities to blow the mix tanks with nitrogen.	5/1	Production
8. Operating procedures changed to unload Pyranol cars with nitrogen.	Con-tin uing	Production
9. Install weather protection at loading docks.	1/1	Mech. Design
10. Alter piping to locate polishing filters ahead of absorbers in #3 and #4 still systems.	6/1	Production
11. Relocate gear meters to point in process where maintenance costs will be decreased.	6/1	Production
12. Complete tank car inspection procedure.	Con-tin uing	Prod.
13. Monitor quality of product and chlorine during change to Ag Grade KCl.	3/1	TSD/Prod.
14. Provide sales sample with necessary information for proper handling of Aroclor products.	4/1	Prod.

*Dependent on accomplishment of Objective 3.

III. CAPACITY

A. Objectives

1. Meet 1970 sales forecast of 42M pounds Aroclors and 12M pounds Aroclor blends.

B. Actions

	EDC	Responsibilit
1. Make Brodimatic meters operable.	7/1	Prod.
2. Publish MIP and issue status periodically.	2/1	TSD
3. Demonstrate maximum capacity.	Qrt.	Prod.
4. Insulate #7 storage tank.	5/1	TSD
5. Evaluate need for improved mixing facilities.	8/1	Prod./TSD
6. Evaluate need for increased loading rate of Pyranols.	4/1	Production
7. Demonstrate use of filter in xylene mix drumming line.	2/1	Production

IV. COST

A. Objectives

1. No negative variance from 1970 cost standard.
2. Mechanical expense not to exceed 1970 budget.
3. Overtime for Dept. 246 personnel - 8%.
4. Absenteeism for Dept. 246 - 3 %
5. Mechanical overtime 4%

B. Actions

	EDC	Responsibilit
1. Complete and implement preventive maintenance list.	3/1	Maint./Prod.
2. Install new pumps on #2 and #3 mix tanks.	6/1	Maint.
3. Annual physical inspection of warehouse stock to reduce repackaging costs.	6/1	Production
4. Set drum inventory levels agreed on by Production, Marketing and Production Planning.	3/1	Production
5. Eliminate overtime on porter job.	9/1	Production
6. Complete upgrading of control room.	4/1	Maintenance
7. Evaluate dismantling air dryers.	9/1	Production
8. Dismantle spiral heat exchanger.	4/1	Production
9. Check asset run versus physical check of department.	4/1	Production
10. Obtain credit for TCB and TTCB raw material mischarges in 1969.	3/1	Purchasing
11. Determine maximum water content in steel-HCl systems to avoid corrosion in off-gas system.	9/1	TSD
12. List and evaluate needs on high repair cost items.	2/1	Maintenance

V. YIELDS

A. Objectives

	Goal	70 Std.	69 Act.	70 Act.
Biphenyl	99	98	99.24	
TCB	98	98	98.34	
TTCB	98	98	94.30	
TCP	98	99	91.66	

B. Actions

	EDC	Responsibility
1. Continue close surveillance of blending procedures and raw material shipments.	Con-tinuing	Prod.

VI. PROCESS CONTROL

A. Objectives

1. Improve operational control of the process.

B. Actions

	EDC	Responsibility
1. Identify key process variables and initiate control charts.	4/1	Production
2. Prepare new operating instructions.	7/1	Production
3. Prepare Standard Manufacturing Process.	12/1	Production
4. Complete Data Bank.	11/1	Prod./TSD
5. Establish and implement key variable audit.	6/1	Prod./TSD
6. Make pertinent process control data available to operators.	1/1	Production

VII. POLLUTION

A. Objectives

1. Reduce Aroclor losses to sewer from 130 pounds per day to 10 pounds per day from department.
2. Evaluate need to reduce HCl air pollution.

B. Actions

	EDC	Responsibility
1. Quantify process material going to toxic dump.	1/1	Production
2. Determine adequacy of drowning jet.	6/1	TSD
3. Catch all wastes from drip pans and sample lines.	3/1	Production
4. Modify piping on continuous blow tank to prevent accidental Aroclor losses to sewer.	5/1	Mech. Design
5. Modify absorber relief lines to prevent Aroclor from reaching the sewer.	6/1	TSD
6. Design and install a sewer basin to trap accidental Aroclor losses.	7/1	Mech.Design/ TSD
7. Establish two week PM on blow tank level control(discontinue with Item 4 completion).	1/15	Maintenance

VII. POLLUTION (Cont'd.)
B. Actions

	EDC	Responsibilit
8. Design and install a system to remove Aroclor entrained in HCl routinely sewered through drowning jet.	1/1	TSD
9. Continue to monitor sewers to find sizes and locations of Aroclor losses in plant.	Con-tin uing	Production Control

Group Members:
V. F. Brawley
T. N. Carrico
Bob Eden
R. M. Humphries
W. A. Krull
J. R. Kuster
R. M. McCutchan