

Operation Report
Dept. 246 - Aroclor
June - 1965

PRODUCTION (Current Month)

Scheduled - 2,400,000#
Actual - 2,157,950#
% of Schedule - 89.9%

PRODUCTION (Year to Date)

<u>Aroclor</u>	<u>Current Month</u>	<u>Year to Date</u>
1232	47,840#	47,840#
1242	748,233#	4,896,198#
1248	317,305	3,349,939
1254	815,032	3,713,305
1260	229,540	2,501,638
1262	0	54,780
	<u>2,157,950#</u>	<u>14,563,700</u>

Average Monthly Production - 2,427,283#

Availabilities

Repair - 96.39% Process - 94.58% Other - 86.25% Total - 77.22%

YIELDS

	<u>Standard</u>	<u>Actual</u>	<u>Y.T.D.</u>
% Theory on Biphenyl -	95.50%	97.23%	98.51%

Quality

Thermal-Chemical stabilities on 1242 Aroclor produced this month ranged from .46 ppm to .68 ppm. Emphasis has been given to this stability on 1242 since this is the last remaining property in which the Krummrich and Anniston plants differ. Material produced at Krummrich has thermal-chemical stabilities as low as Anniston's, but Krummrich 1242 has a wider range in stabilities. The thermal-chemical stabilities have ranged from 0.28 ppm to .75 ppm during 1965. Foreign competition also produces material with thermal-chemical stabilities close to .2 ppm.

A plant test was run this month by the Process Research Group and Technical Services Department to determine if crude aroclor with small quantities of low-boilers produced more stable aroclor than crude aroclor with high quantities of low-boilers. Material from Nos. 2 and 3 chlorinators which had small quantities of low-boilers did not produce more stable aroclor than material from the other chlorinators which had large quantities of low-boilers. This means a measure of the low-boilers is not a measure of stability at the present levels, and Nos. 2 and 3 chlorinators do not produce more stable material as was stated in last month's report.

Further plant tests will be run to determine chlorinator conditions which will produce more stable aroclor.

DSW 296448

STLCOPCB4066392

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Operations

The HCl off-gas line was cleaned on June 24. The cleaning reduced the back pressure, but on June 25 an operating error of feeding chlorine to an almost empty chlorinator created high temperatures and plugged the off-gas line at the department. This has caused about 10% of the HCl gas to be sewerred. The line will be cleaned during July when stocks are high enough to allow downtime for the clean-out.

The experimental horizontal pump on No. 2 still was started up. It has operated satisfactorily so far. It is still necessary to boil down the still with the submerged pump because the horizontal pump loses prime before the end of the boil down leaving three to four times the usual residue in the still. If the horizontal pump continues to operate satisfactorily further piping modifications will be made so that it can be used for boil downs.

There was no progress this month to demonstrate the nuclear density gauge on No. 4 chlorinator. The evaluation of this unit by TSD will be completed by 10/1/65. The difficulties appear to be in the temperature correcting system. There is no correlation with the density gauge readings and specific gravity readings.

Stock Position

	<u>Aroclor</u>	<u>1st of Month</u>	<u>Last of Month</u>
Whse. Stock	(1242	145,460#	261,377#
	(1248	421,025	322,445
	(1254	444,610	428,110
	(1260	193,860	171,660
	(1262	81,240	68,640
Total Whse. Stock -		<u>1,286,195#</u>	<u>1,252,232#</u>
Dept. Stock	(1242	360,892#	517,840#
	(1248	309,221	239,500
	(1254	116,736	262,332
	(1260	244,462	141,325
	(1262	0	0
Total Dept. Stock -		<u>1,031,311#</u>	<u>1,160,997#</u>
Total Aroclor Stock -		2,317,506#	2,413,229#

Causes for Outages

Repair

17 Hrs. (2.36%)	Replacing agitator motor on No. 2 blend tank.
6 Hrs. (.83%)	Changing No. 2 still submerged pump.
3 Hrs. (.42%)	Replacing gasket in chlorinator off-gas line.

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Process

8 Hrs.	(1.11%)	Operating error. No. 2 still was overcharged.
8 Hrs.	(1.11%)	Changing condenser on No. 1 Still because of fouled water side.
8 Hrs.	(1.11%)	Operating error. A chlorinator was put on stream with no biphenyl charge causing off-gas line to plug.
5 Hrs.	(.69%)	Changing plugged coil on No. 2 still.
3 Hrs.	(.42%)	Shut down No. 2 still to rework (dry) drums of 1254 - 10% xylene.
7 Hrs.	(.97%)	Rupture disc blew on No. 2 still.

Other

28 Hrs.	(3.89%)	Plant test on 1242 quality.
17 Hrs.	(2.36%)	Changing products.
27 Hrs.	(3.75%)	Producing 1232 with only one still. Only one still was used to prevent blending of the small quantity of 1232 with a heel of 1254 in No. 1 still.
14 Hrs.	(1.94%)	Making piping connections from No. 2 still to experimental horizontal pump.
13 Hrs.	(1.81%)	Insufficient supply of chlorine.

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