

Technical Summary

Re: Summary of Technical Department
Monthly Reports - September 1966

The laboratory group has concentrated on evaluating new MIPA catalysts. At month end a new Harshaw catalyst was tested and installed in the plant which appears to give superior conversion and selectivity to desired products. This catalyst also is stronger than previous catalysts and appears to be a considerable improvement. It is unfortunate that we did not have the manpower to seek an improved MIPA catalyst during the past 18 months, because it now appears that better catalysts are available which should be evaluated and which could allow a substantial reduction in catalyst costs as well as improved yields and selectivity to desired products.

Catalyst testing of MEA catalyst also was carried out on a crash basis because it is impossible to obtain delivery of new catalyst on other than an extended delivery basis.

ENGINEERING

The DNT plant was essentially completed except for tracing and insulation on the lines leading from the check tanks to storage and loading at month end. Final costs of this project will be approximately \$1,350,000, depending on the amount of overhead which must be paid Chemical Construction on their work.

The new 600# boiler and water treating facilities are proceeding on the revised schedule with completion expected to be about November 15 to December 1, depending on equipment delivery.

Details of the various projects are covered in the Engineering report. Separate memoranda are being issued explaining project overruns which have occurred. Most of the overruns can be explained by the accelerated need for the improvement involved which has required overtime, increased labor costs, and changes in the scope of the project since estimated.

SPECIAL PROJECTS

Mr. Rogers issued several evaluation reports on the production of ammonia and methanol from new large plants located either at Pace, Florida or in Texas, or in Louisiana. The lower gas costs for a single facility in Texas or Louisiana are compensated for by economies in adding to the Pace facility when a single plant is built. However, if two facilities are built, substantial economies occur in a Texas or Louisiana location.

GENERAL

The plant Process Improvement group does not have sufficient manpower to accommodate all of the present and projected needs nor does it appear that

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Mr. T. L. Carey

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October 8, 1966

the 1967 budget is adequate to sustain the manpower required. Essential work in amines, DNT, and some other plant areas can be handled. Other essential work will probably have to be handled on a hit-or-miss basis as has been the case for the past two years.

Mr. Ronald Beech joined the Process Development Department at month's end and is assisting with the DNT plant startup.

mdc


J. B. Dorsey Jr.

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SUMMARY OF PROJECT WORK STATUS

<u>Project No.</u>	<u>Title</u>	<u>Appropriation M\$</u>	<u>Committed M\$</u>	<u>Revised M\$</u>	<u>Completion Date</u>	<u>Remarks</u>
6501	Water Softeners to Provide Water for Boiler	18.0	10.1	18.0	12/1/66	Equipment due early November. Field piping in progress.
6509	Air Condition & Enclose Wet Bay Control Room	6.0	4.8	6.0	10/31/66	Still 95% complete.
6533	Ammonia Recovery Pressure Control System	3.3	1.5	3.3	11/1/66	Waiting for material deliveries & available instrument manpower.
6565	DNT Plant	870.0	1323.0	1323.0	---->	Production Complete: 9/16/66 Storage Complete: 9/30/66
6585	Equipment to Produce IBN & DEA - Amines	223.9	218.0	224.0	---->	Production complete; storage by 11/1/66. Tank foundation complete. CB&I fabricating tank. Piping fabrication in progress.
6604	New 600 psi 100,000 #/Hr. Boiler	320.0	238.8	320.0	12/1/66	Field work on schedule. Equipment due second week of October.
6605	Upgrading Water Treatment	105.0	101.3	105.0	12/1/66	Field piping in progress. Equipment due early Nov.
6613	Product Coating System - NP	15.5	7.5	15.5		Elevator received. Job being deferred at request of Production.
6616	Provide Offices, Locker Room and Storage	14.3	none	14.3	Indefinite	Approval still pending.
6617	Additional Bulk Car Loading Facilities - PVC	10.4	9.5	10.4	Indefinite	95% complete. Awaiting available manpower for installation.
6621	Refrigeration Unit for Cooling Solutions Tanks - PVC	12.0	10.7	12.0	9/30/66	Complete.
6622	Spare Block for Recovery Compressors - PVC	14.3	14.2	14.3	8/15/66	Complete.
6631	Additional Electric Heat and New Converter for #1 Plant	8.0 15.0	55.2	55.2	7/29/66	Complete.
6632	H.P. Water Pump, H.P. Scrubber - No. 1 Plant	4.0	1.5	4.0	Indefinite	Installation dependent on Production's decision as to proper use of pump.
6633	New Methylamines Check Tanks	12.4	15.8	15.8	7/28/66	Complete.
6635	Plant Steam Recorder	1.8	1.2	1.8	Indefinite	Waiting for shutdown to install.
6640	Maintenance Shop-Area B	26.0	none	26.0	1/31/67	Approval obtained. Construction will start immediately.
6642	Purchase of Lab Equipment	23.4	9.9	23.4	Indefinite	
6647	Ammono-Phos Production	200.0	208.0	210.0	Indefinite	One agitator remains to be installed. Will be completed when Production releases tank for work.
6649	Ammonia Reform Gas Guard Vessel	31.3	27.7	31.3	8/31/66	Complete.
6652	Amines Plant Expansions	1360.0	111.3	1360.0	4/1/67	NH ₃ column to be delivered by 12/1/66. Condensers due in December. Engineering in progress.

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<u>Project No.</u>	<u>Title</u>	<u>Appropriation M\$</u>	<u>Committed M\$</u>	<u>Revised M\$</u>	<u>Completion Date</u>	<u>Remarks</u>
1580-18829	Independent Raw Water Supply - PVC	9.7	3.6	9.7	10/15/66	Work in progress.
1580-18839	New Blowdown Tank for Compressor Building	2.7	3.7	3.7	8/31/66	Complete.
1580-18862	Revises Condensate System from PVC Dryers	3.0	2.5	3.0	Indefinite	Awaiting delivery of pumps to complete job.
1770-6003	PVC Reactor Reglassing	38.0	23.1	38.0	Indefinite	Spare reactor being reglassed at Glascote with scheduled shipping date of December 2.

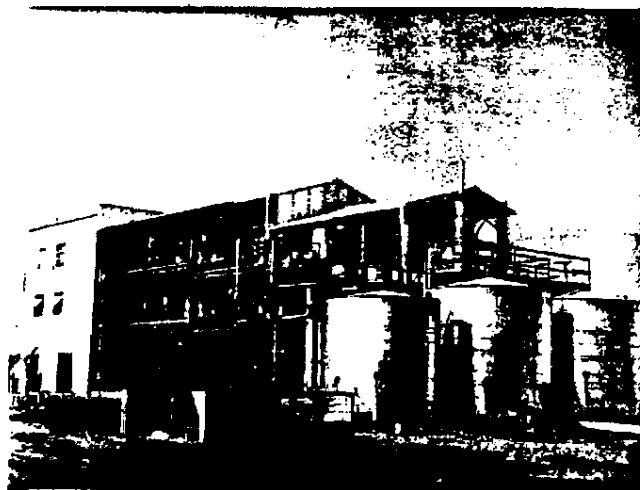
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PHOTOGRAPHS OF COMPLETED DNT PLANT
As of September 30, 1966



View of interior of structure showing nitrators
in series.



View of completed plant from the Southeast.

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ESCAMBIA CHEMICAL CORPORATION

Interoffice Memorandum

To: Mr. T. L. Carey

Date: October 5, 1966

From: E. M. Spurlock

Re: Monthly Report - Personnel Department - September, 1966

PERSONNEL

Activity for the Month

<u>Division</u>	<u>No. of Employees 8/31/66</u>	<u>September Additions</u>	<u>September Separations</u>	<u>No. of Employees 9/30/66</u>	<u>1966 Budget</u>
Admin. & General	55	3	1	57	56
Research	61	2	6	57	59
Agri. Chemicals	167	5	9	163	167 *
Industrial Chemicals	17	1	2	16	18
Production	<u>431</u>	<u>20</u>	<u>7</u>	<u>444</u>	<u>406</u>
Totals	731	31	25	737	706

* This includes 160 as listed on the budget sheet plus 7 temporary employees who were not shown in number on the budget sheet.

There were 210 walk-in applicants, 154 applications were issued and 6 were received by mail. Sixty-nine applicants were interviewed and 109 were tested.

TRAINING

School was held for the operation of trackmobiles and 2 trackmobile operators were licensed.

SAFETY

The Corporation has worked 10 days or approximately 43,500 man-hours without a disabling injury. The various division records are as follows:

<u>Division</u>	<u>Man-hours</u>	<u>Days</u>
New York Office	358,500	1,883
Research Division	850,000	3,363
Atlanta Division	171,000	143
Pensacola Plant	26,500	10
Corporation	43,500	10

The Laboratories and the Warehouse completed eleven years without a disabling injury. The Maintenance Department completed three years without a disabling injury.

Personnel

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SAFETY (Cont'd.)

Medical Section

The Medical Section treated 28 injuries for Escambia and 25 for Carroll, performed 16 pre-employment and 15 annual physicals and gave a total of 44 immunization injections.

EMPLOYEE RELATIONS

Labor Day picnic was held on September 5, 1966 with approximately 800 in attendance.

Six 10-year service awards were presented.

INSURANCE

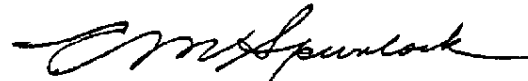
We paid a total of 66 claims under our Group Hospitalization program which amounted to a total of \$ 10,408.80 during the month of August and 84 claims amounting to \$ 17,748.84 during the month of September.

We settled the following claims during the month of September:

Two claims amounting to \$ 88.62 under our Automobile Physical Damage Insurance.

One claim amounting to \$ 192,667.34 for payment in full of Physical Damage portion of Methanol Explosion which occurred on October 24, 1965.

Check was received in the amount of \$ 27,807.00 covering Workmen's Compensation Second Interim Retrospective Premium Adjustment.


E. M. Spurlock

EMS:kc

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PRODUCTION MONTHLY REPORT

October, 1966

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ESCAMBLA CHEMICAL CORPORATION

Interoffice Memorandum

Summary
TLC

To: Mr. H. F. Roderick

Date: November 10, 1966

From: T. L. Carey

Subject: Monthly Report for October, 1966

The item of major interest this month was the substantial improvement in the production cost of methyl methacrylate. The variance from standard has been running in the range of negative \$120,000 to \$130,000. October was a negative \$69,000. There still is a long way to go but the month showed a very significant improvement.

The N-P plant produced 16.5-16.5-0 grade all month and had the lowest actual cost per unit in the history of the plant. These costs were \$2.50 per ton under standard.

The DNT plant started up early in the month and by month's end had made a 96 hour performance run which demonstrated the plant capability of producing specification material at design rates. Unfortunately, our customer Wyandotte, will start taking product at a low rate in January and has tentatively scheduled increasing quantities to full rate at mid-year.

Some of the raw material usage rates are higher than guarantees. These will be studied and recommendations made for negotiations of acceptance with Biazzi.

Amines results still leave a lot to be desired. Maintenance and yields are the biggest problems. A negative variance of \$77,000 had been predicted for October and an actual of \$108,000 was made. In an effort to apply more technical assistance to the problems, the overall operating responsibility was transferred from Mr. Dorsey, Director of Engineering, to Mr. J. Kramer, Production Manager. This will apply specific production know-how to the area and allow the technical group under Mr. Dorsey to work on the yield problems directly.

The amines expansion program is coming along well and appears to be on schedule. This project should be complete in March at which time these plants should be on budget.

PVC appears to have overcome its recent problems and with a good product mix a very good production for November is predicted.

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Mr. H. F. Roderick

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November 10, 1966

All other plants are in good shape and operating well. November should be an excellent month from the production standpoint.


T. L. Carey

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