



Anniston Plant
TECHNICAL SERVICES DEPARTMENT
MONTHLY REPORT

Anniston

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Summary

September, 1968

Cost Improvement Results For First Nine Months

	Estimated Actual	Target	% of Target
Month	\$28,400	\$54,800	52
YTD	\$342,200	\$373,700	92
1968 Indicated	\$385,000	\$493,000	78.5

1968 Indicated Actual Cost Improvement - 78.5% of target

Organic Division: 90% of target - \$268 M actual vs. \$295 M target. Due to delay in demonstrating 20 M lb/yr PNP & Solid Aroclor production in Liquid Aroclor stills - \$10 M untargated savings in Solid Aroclor result from statistical study.

Agricultural Division: 1968 indicated actual results at 60% of target (\$117 M actual vs. \$195 M target). Technology gains have been demonstrated which will accrue in 1969; high chlorination level will be realized when residue handling improvements are installed and parathion recovery savings will be realized when equipment modifications are completed.

South Second St.**Other Locations****Organic Division**

Instrumentation on order for Solid Aroclor yield increase project to meet 1969's forecasted demand. Installation EDC is 15 December.

0346330

Two Montar handling projects were approved to rlake Montar 5 and decrease drumming costs of the throw-away Montars.

Plant test of the Biphenyl still successfully proved rate of 88 M lbs. per year of biphenyl.

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Organic Division (Continued)

2.

Project scope planning meeting on facilities required to maintain operations after shutdown of Chlorine held with CED on 9/20. Long delivery equipment placed on order on 9/27. Target date for complete project scope and schedule is October 28, expediting and design underway based on preliminary scope.

Plans developed and work underway for meeting HB-40's 1969 forecast hydrogen supply without Chlorine department. Pilot plant mixed-bed adsorption unit in operation to determine feasibility of molecular sieve purification. Initial results favorable.

Staley Grade HCl Plant Tests show need to reduce organic content prior to carbon tower treatment. Short term, an acid storage tank will be used to settle organics from carbon tower feed. Long term, a project will be submitted in October to install a teflon packed coalescer which will lower organics from 300+ ppm to 50 ppm.

PNP production of 1.72 $\bar{M}$ lbs. best since record 1.93 $\bar{M}$ in May. Reaction step continues to bottleneck rate. AFE for pressurization of charge tank to cut cycle by 7 minutes will be submitted by 11/1.

Agricultural Division

Pilot Plant testing of Sulfur Removal from parathion still residue has been successfully completed. Results indicate a high recovery of sulfur with a consistent dryness of 90% solids with solid bowl centrifuge. PR&D results show recovered sulfur quality approaches specifications of purchased sulfur for P_2S_5 .

The Parathion Fume Collection System is expected to be fully operational and turned over to Production by 10/4.

Process and Quality Analysis

A 2-month experiment in Solid Aroclor to verify the computer study reported in July has demonstrated a 4% improvement in yield worth \$40,000 annually. The process will be stabilized at this point until new instrumentation is completed, then will be optimized by further study.

The controlling variable in Methyl Intermediate still yield was found to be operator manipulation of heat input. A superior pattern of heat control was recommended. Potential savings are estimated to be \$79,000 annually. Final optimization of stills is planned when programmed steam controls are installed.

Utilities Cost Improvement

Premises for four water savings projects indicate savings of \$19.3 M vs. capital of \$13.7 M.

CED Liaison

Aroclor tank farm start-up in progress. Warehouse siding completed in mid-September, occupancy by mid-October predicted. Toledo Scale strike delays delivery of automated drumming equipment until January-temporary manual facilities will be provided.


J. C. Landwehr
Technical Services Superintendent

0346331

20,000

200,000

160,000

120,000

80,000

40,000

0

PNP

NIRAN

1968 TSD COST IMPROVEMENTYTD RESULTS VS ANNUAL TARGETS

100,000

80,000

60,000

40,000

20,000

0

AROCLOR

BIPHENYL

HB-40

HCL

CHLORINE

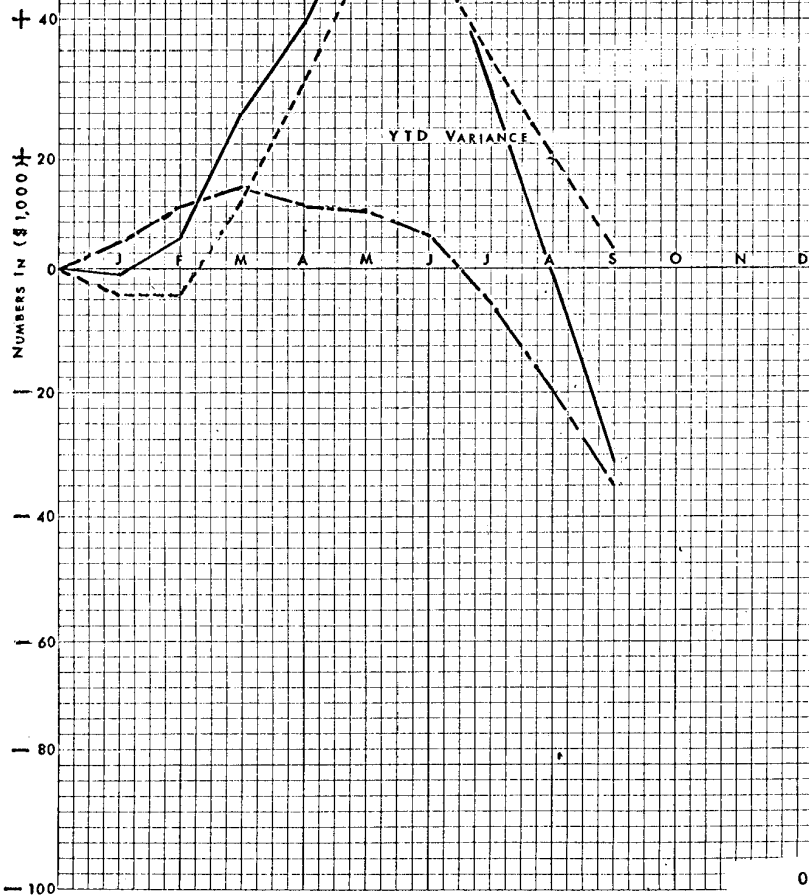
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TOWOLDMON0044428

EUGENE DIETZGEN CO.
MADE IN U. S. A.NO. 340-B DIETZGEN GRAPH PAPER
8 X 8 PER INCH

1968 TSD COST IMPROVEMENT

TOTAL PLANT	492,600	TARGET
ORGANIC	297,350	TARGET
NIRAN	195,250	TARGET



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TOWOLDMON0044429

AROCLOR E. E. Bowles, C. R. McIlwain, (V. R. Haupt)

Cost Improvement

	Month	YTD
Target	\$ 8,300	\$43,500
Actual	2,275	\$27,710

Comment

Off target due to production of Solid Aroclor in Liquid Aroclor equipment.

Solid Aroclor, Apply
Statistical Control

Savings - \$40,000

TSD Objectives
C-2

Lowering the crude 5460 softening point as a result of the statistical study reported in July, 1968 continues to show good results. Beginning September, 1968 savings of \$2600/mo. are expected. Actual September savings were \$2200.

Optimization of crude softening points will be done when the project for Objective B-8(a) is installed and proven out.

Evaluate Quarterphenyl-
Polyphenyl Effects on
Solid Aroclor Yields

1969 Savings - \$63,200
NFC - \$14,000

TSD Objectives
B-8 (a)

Instruments ordered in September on verbal approval of Project 3015. Project will be submitted in early October. EDC - 12/15/68.

Montar Handling

Savings - \$24,500
NFC - \$20,000

TSD Objectives
1969

Project 2949 to provide for flaking Montar 5 approved September 20.

Project 2952 to decrease drumming of throw-away Montars was approved September 20. NFC is \$10 M with \$13 M/year savings.

Long Range Plans

1969 Master Manpower Plan TSD Job 1000

Completed 1969-70 job list and manpower requirements for Solid Aroclor. Work will continue on providing a timetable for completion of each job listed.

Therminol System

Evaluation

TSD Job 863

A computer analysis is being made of the existing Aroclor Therminol system;
- purpose: to correct present flow problems.

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TOWOLDMON0044430

BIPHENYL-SANTOWAX

W. G. Niemeyer, J. W. McGee, (V. R. Haupt)

Cost Improvement

	Month	YTD
Target	\$3,335	\$33,485
Actual	\$9,210	\$90,100

Debottleneck Biphenyl	Capacity	TSD Objective
Stillis to 87.6 M lb/yr	Increase	B-7(a)

CED and plant conducted capacity test September 9 and 10. No limitations were found in the biphenyl column or column auxiliaries.

CED proceeding on project scope this area.

No. 1 Furnace Upgrade	Capacity	TSD Objective
Liason (CEA - 1892)	Increase	B-7(c)

Concrete dike wall, new benzene storage, partially completed. Fabrication external alloy piping in progress.

Biphenyl-Santowax	TSD Objective
MIP	B-1(a)

Rough drafts of all sections are complete. Review and revisions are in progress.

Santowax/R Eight-	Quality	TSD Objective
Tray Column		B-7(d)

Drafting complete on installation of column, revisions underway on new Montar-9 pump and instrumentation. Column EDC November 1, 1968, total project EDC February, 1969 when CEA 1892 provides Santowax C surge tank and pump.

AFE for this project (No. 3016) week of 10/7/68.

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TOWOLDMON0044431

HB-40 C. E. Woodward (V. R. Haupt)Alternate Hydrogen
Supply

Evaluation

TSD Job 861

Identified possible routes for economical transition from DeNora hydrogen in planning for DeNora shutdown. Engineering evaluation was made of:

1. Short and long term use of purchased hydrogen.
2. Use of 2nd autoclave to overcome rate loss resulting from a use of biphenyl hydrogen as is.
3. Clean-up of biphenyl hydrogen via mixed bed silica gel-molecular sieve package unit.
4. Hydrogen generation from natural gas with package unit.
5. Use of biphenyl hydrogen as is.

Long term solution is the silica gel-molecular sieve unit for Biphenyl Hydrogen clean-up. Have begun in-plant testing with pilot scale equipment to prove feasibility and optimize design.

Overall program for alternate hydrogen supply will be published in October.

CHLORINE D. W. Dudley, (D. C. Malm)Cost Improvement

	<u>Month</u>	<u>YTD</u>
Target	\$2,625	\$36,000
Actual	\$1,150	\$56,905

Reduce Mercury Usage to
0.75 lbs Hg/Ton Cl₂

Savings - \$1700

TSD Objective
B-6(b)

Demonstration of acid wash tank for recovery of mercury will be in November. Start-up is slated for late October.

Brine Dechlorination

Savings - \$6,875

TSD Objective
B-6(c)

No change in status. Awaiting maintenance revisions to complete demonstration.

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TOWOLDMON0044432

CHLORINE (Continued)Central Chlorine
UnloadingProject Scope
Development

TSD Job 860

Plant needs were developed through decision analysis of capacity, safety, flexibility and minimum interruption of present operations. The analysis was reviewed with CED on 9/20, agreement was reached on essential points, vaporizer was placed on order 9/27, and CED is expediting monel tubes for the vaporizer. A preliminary scope has been prepared and will be reviewed with CED on 10/8, meanwhile design has started on railroad trackage. Request will be made by CED for preapproval money for both design and construction. Project schedule and estimate will issue October 28th with all planning directed to realization of January 1 target data.

HCl J. M. Jones, (D. C. Malm)Cost Improvement

	<u>Month</u>	<u>YTD</u>	
Target	\$1,500	\$4,250	<u>Comment</u>
Actual	\$ 800	\$2,700	Failure to meet target caused by hold-up on installing HCl storage tank.

Production of Staley
Grade AcidIncreased
Sales

TSD Job 801

Tests based on Pittsburgh Activated Carbon's recommendations show need to reduce organic content prior to carbon tower treatment. Out for proposals on a Teflon packed coalescer to lower organics in tower feed to 50 ppm. One of the regular acid storage tanks will be placed into service as a settling tank for feed to the carbon towers as a test to reduce organics.

Final recommendations on actions needed to routinely produce "Staley Grade" acid will be made in October.

Muriatic Acid Storage

Savings - \$6,750

TSD Job 497

Design package transmitted 9-26-68. Construction being scheduled by Maintenance.

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TOWOLDMON0044433

PNP O. J. Norris, K. J. Buturla, (D. C. Malm)

Cost Improvement

	Month	YTD	
Target	\$16,500	\$111,500	<u>Comment</u>
Actual	\$ 7,750	\$ 55,000	Most demonstrate 20 M lb/yr rate to realize targetted savings.
Demonstration of 20 M	Savings - \$99,000		TSD Objective B-9(a)

Charge tank pressurization project will be delayed to get assistance from E & I design group for estimating purposes. Target date is 11/1.

September production good at 1.72 M lbs. Lost a total of 41,000 lbs. from a leaking filter screen and failure of mother liquor pump.

Increase Reactor Temperature	Capacity Increase	TSD Objective B-9(b)
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Difficulties were experienced during letdown after increasing temperature to 175°C. The reaction time was increased to 72 minutes in an effort to eliminate letdown problems. Further studies are scheduled in October.

Study of Molar Ratios NAOH/PNCB	EVOP	TSD Objective B-9(c)
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Initial changes in mole ratios coincided with letdown problems. Tests have been halted until cause of letdown problem has been identified.

Revise MIP	TSD Objective B-1 (g)
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Rough draft in for review, scheduled to be in for typing by October 15 with a plant review of rough draft by 10/30.

NIRAN

Cost Improvement

	Month	YTD	
Target	\$22,150	\$137,400	<u>Comment</u>
Actual	\$ 6,300	\$102,150	0346338 Delay in starting parathion recovery because of filter problems (\$5850/mo.) and inability to increase chlorination level to 110% because of crude handling problems (\$9300/mo).

NIRAN (Continued)

Demonstrate Parathion Recovery	Savings - \$70,000, 10-15% Reduced COD loading	TSD Objective B-5(a)
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Life studies for new paper filters 80% complete. Studies to be finished by mid-October. Coalescer will be backflushed in early October for first time. During fall turn-a-round system will be chemically treated for rust removal, and additional controls will be added. Demonstration will follow successful operation of filters. Start-up will be in early December if modifications meet schedules.

Solvent Addition	Savings - \$59,000	TSD Objective B-5(c)
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Yield savings of \$6300 were obtained in September. Savings are down \$3,000/mo compared with four month period May thru August reflecting September operating problems and lowered chlorine charges.

Sulfur Recovery From Residue	\$400,000/yr Savings, 31% Reduction in SO ₂ in Air	TSD Objective B-5(d)
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Experimental recovery tests are complete. Results indicate that a consistent dryness of 90% solids in the cake can be obtained from a Solid Bowl Bird Centrifuge. Organic recycle tests were completed with no pumpout problems even with chlorination levels up to 110%. A progress report detailing pilot test results will be published in October.

PR&D work on final sulfur clean-up was continued. Process development work is expected to be complete by 11/1/68. Results indicate a high probability that recovered sulfur quality will nearly meet or equal specifications of purchased sulfur for P₂S₅ production.

Submerged Pump for RI Control of Chlorination	Savings - \$1,500	TSD Objective B-5(e)
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Circulating line for refractometer has been repaired. New light source has a promised delivery of 10/1. Tests will resume week of 10/7.

Thio Acid Reactor - Temperature Controlled Alcohol Addition	Safety	TSD Objective A-10
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Work request has been forwarded for design of the automatic control system on the #1 and #2 Thio Acid Units. Design work is scheduled to begin in December.

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TOWOLDMON0044435

NIRAN (Continued)

Fume Collection System in Parathion Department	Reduce Corrosive Atmosphere	TSD Objective F-10
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Fume collection system started up on 9/30. Minor start-up corrections completed 9/26. The new facilities are expected to be fully operational and turned over to production by 10/4.

Water Savings in Parathion	Savings - \$3700	TSD Job 815
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Experimental project to re-use water from wash columns at pre-washers was transmitted to maintenance 8/27/68.

P₂S₅ K. G. Hale, (D. C. Malm)

Cost Improvement

	Month	YTD
Target	0	0
Actual	0	0

Safety

Provide Design to Reduce Fumes in P ₂ S ₅ Working Areas by 4/1/68 at Surge Tank Vent	TSD Objective A-15(a)
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Project was transmitted to Maintenance on 8/5/68.

ENGINEERING DESIGN AND SERVICES

Mechanical/Electrical/Instrument Design and Drafting J. C. Price, J. A. Veazey,
R. L. Brewer, J. K. Rennie,
(W. F. Taffee)

Highlights

Final drawings issued for nine projects including a major revision of the plant fire alarm system. Major emphasis in October will be on Santowax Still/Solid Aroclor projects.

AFE covering diversion of acidic spring water and HCl loading dock flows to process sewer was forwarded for approval in September.

Winterize Safety Showers	Safety	TSD Objective A-5

Design package for Organic Division showers delayed one month (to 12/20/68) by Santowax Still/Solid Aroclor work.

Procedure for Electrical Testing	Safety	TSD Objective
		A-6

TSD/Maintenance meeting scheduled for September has been rescheduled for November because of high priority capacity increase work.

Design Responsibility in Disaster Control Plan	Safety	TSD Objective A-7
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9/15 target missed. 75% complete. with new target of 10/15.

Niran Interlocks	Safety	TSD Objective A-14(b)
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AFE targeted 11/30/68 - design completion 4 months after AFE approval.
Original target was for 12/1 design completion. Slippage caused by priority revisions.

Back-up Level Indicator	Safety	TSD Objective
P.S.		A-17

Present system now considered sufficiently reliable. Objective will be dropped.

UTILITIES COST IMPROVEMENT

J. C. Price, L. O. Chambers, (W. F. Taffee)

Studies indicate that re-use of PNP sewerage water for drowning of jets at Niran or Aroclor instead of for tower make-up will increase savings from \$1.2 M to \$5.4 M at an increase in NFC from \$4.0 M to \$10.0 M. Recommendations for improved treatment of the Biphenyl cooling tower are in review. Improved treatment in this tower is expected to reduce downtime losses by \$10.0 M, acid cleaning costs by \$1.8 M, and city water costs by \$0.6 M. Project premise to change cooling water on Trane compressor at Niran from city water to tower water was forwarded for approval. Expected savings from this project are \$1.5 M at an NFC of \$1.2 M. Progress reports on steam metering and water metering were issued. Progress report on program plans will be issued in October. The AFE's for Niran & Organic water meters have been combined and are in typing. AFE for gas meter at Biphenyl was forwarded for approval.

PLANT IMPROVEMENT

G. C. Goodwin, (W. F. Taffee)

1968 road program AFE's essentially complete. Design package for Fifth Street from the Central Shop to the new warehouse and Duncan Street from Fifth to Sixth, were forwarded to Maintenance.

Work on preparation of AFE's for all 1968 Plant Improvement Program, as outlined in second quarter report, is proceeding on schedule. Third quarter report will be published in October.

Working with State Highway Department to minimize our loss of useful land when Highway 202 is widened. New State proposal expected in next two months.

CED LIAISON

V. T. Langdon (W. F. Taffee)

CEA 1430 - Aroclor Expansion

Tank Farm being started up by Production. Insulators back at work. Bagging equipment being set, and CED is working with vendor to resolve installation problems. Toledo Scale strike delayed delivery of automated drumming equipment until January. Temporary manual installation will be made to permit utilization of tank farm storage.

CEA 1452 - Warehouse

Installation of siding on warehouse and penthouse is complete as is ventilator installation. Gutter and downspout installation remain. Sprinklers complete, heaters being installed. Target date to move in is now second week in October.

POLLUTION CONTROL

(E. G. Wright)

Reporting Spills and
Other Non-Routine Operating
Conditions in the Plant

Pollution Abatement

TSD Objective
F-4

Twenty air emission and spill reports were filed by Maintenance and Operating Personnel during September. Ten were non-routine liquid spills and ten were unusual air emissions.

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POLLUTION (Continued)

Article To Further Community Understanding of Pollution Abatement Problems	Community Relations	TSD Objective F-5
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Articles pertaining to Pollution Control are being printed in each issue of the plant newsletter.

Liquid Effluent Task Force	Pollution Abatement	TSD Job 864
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Acid losses were lower in September due to increased HCl Sales demand.

Special Activities

1. Transmitted project No. 2983 to retire and dismantle obsolete equipment at Waste Treatment.
2. Prepared a revision and obtained approval for an additional \$700 on Soda Ash drainage project No. 2798.

Waste Treatment

All wastes were effectively treated in September. Average values for Monsanto effluent in September as follows:

	Average Daily	Specifications
PNP	1.0	<5 ppm
COD	74	<200 ppm
Parathion	.09	<1 ppm
BOD	1.0	<200 ppm

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TOWOLDMON0044439

PROCESS RESEARCH AND DEVELOPMENTSulfur Recovery W. H. Howard, I. Ransaw, (G. W. Miller)

1. Preliminary analytical results show present research process sulfur has 0.08% organics as carbon. Optimization of the procedure should allow production of Sulfur with 0.03% carbon, the present specification limit.
2. Carbon train analyses on sulfur as received from Texas Gulf Sulfur Company show most shipments contain $0.01 \pm 0.005\%$ carbon as organics.
3. Correlation of carbon train analytical test results with results from the classical Carsul procedure have been delayed due to personnel illnesses. This correlation study will begin 10/7/68.
4. Target date for the completed sulfur purification process is 12/15/68.
5. Analytical services required for the pilot plant centrifuge studies required 15 mandays.

HB-40 - Biphenyl Hydrogen Purification J. L. Brown, G. L. Arnett, (G. W. Miller)

1. Evaluation of acceptable levels of carbon nonoxide in HB-40 hydrogen has been completed. Little effect on rate is noticable below 50 ppm CO.
2. Installation is complete on the molecular sieve pilot unit for hydrogen purification. Initial performance data on (1) removing CO and (2) removing aromatics is good. Actual hydrogenation runs using the purified gas will begin 10/7/68.
3. Work on the pilot unit is targeted for completion and reporting 10/28/68.
4. HB-40 has been produced in the laboratory autoclave with color 40 APHA by using ultra pure hydrogen which also gives a 20% reduction in hydrogenation time. This information will be expanded during the present work on the product to evaluate potential cost and quality gains.

Solid Aroclor

1. Aroclor 4465 produced by blending Aroclor 5460 and Aroclor 1262 will be submitted for customer evaluation. Samples prepared at Anniston have been forwarded to marketing for distribution and testing.
2. Additional data on the blended product vapor pressure, viscosity will be developed during October to supplement the marketing effort.

ANALYTICAL AND QUALITY CONTROLSolid Aroclor

1. Analytical methods for Aroclor 5460 testing were supplied for the next FDA petition to employ 5460 in feed bag glues. The earlier petition was withdrawn due to lack of pertinent control data.

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TOWOLDMON0044440

ANALYTICAL AND QUALITY CONTROL (Continued)

2. Complaint No. 6A-68 was received from United Resin on 9/21. The Aroclor 5460 under complaint had severe color and particle size variation. This source of complaint will be eliminated in the new Aroclor packaging facility.

GC analyses were completed on all PNCB cars received since 7/1/68. There are no apparent correlations between PNCB quality and the present reactor depressurization problem.

Liquid Aroclor

1. Three informal customer complaints were received concerning the quality of Aroclor blends. These complaints were partially caused by the incorporation of several used lease cars in to the electrical grade Aroclor tank car fleet.
2. G. E., Hudson Falls, has questioned the plant laboratory about high electrical test valves from Anniston which cannot be reproduced at their New York Plant. An answer has been supplied to the customer however, a visit by R. H. Dewart, Quality Manager, appears inevitable for early November.

Parathion

Sampling problems have occurred during the 6 months which indicate revision of the sampling system on No. 1 chlorination is in order. This has both production and safety justifications.

Muriatic Acid

Analytical activity in this area has been at a high level in support of TSD and Production investigation.

Quality Control

The RFT Index was 98.7 with 8 lots rejected out of 625; 7 out of 526 from the Organic Division. The quality score was 95.0, up 2.8 from August; with YTD score of 96.3 against a target of 93.0 minimum.

Complaint Report

<u>Quality No.</u>	<u>Material</u>	<u>Customer</u>	<u>Reason</u>	<u>Justified</u>
6-A-68	Aroclor 5460	United Resin	Black Material	yes
YTD quality compliant/100 shipments <u>0.10</u> ; target <u>0.20</u>				

ANALYTICAL AND QUALITY CONTROL (Continued)Company Confidential
15.Service

<u>No.</u>	<u>Material</u>	<u>Customer</u>	<u>Reason</u>	<u>Justificated</u>
12-5-68	Aroclor 1242	Electronic Components	Wrong Valve on Tank Car	yes

YTD service complaint/100 shipments 0.70; target 0.20Cost and Operational Indices

	<u>September</u>	<u>1968 YTD Average</u>	<u>Target</u>
(1) Analytical Samples	4830	4770	-
(2) Analytical Manhours	1950	2041	-
(3) Manhour/Sample	0.40	0.40	0.40
(4) \$1 Manhour	9.40	8.77	8.50
(5) % Total Plant Cost	1.1	1.1	1.5
(6) Overtime %	6.5	4.5	5.0

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COMMUNITY RELATIONS, PERSONNEL, RECRUITING, AND DEVELOPMENT

Community Relations

J. C. Landwehr and E. G. Wright attended a meeting of Alabama Water Pollution Control Association held at Auburn September 11, 1968.

Recruiting

Objective - Provide advanced degree credit course work for technical personnel in TSD and rest of plant.

Met with Auburn representatives on MBA program, have proposals for MSCHE and MSIE in hand. Non-credit course in "Process Dynamics and Control" will be taught via Victor Electro Writer and Telelecture system from Auburn starting October 1.

An end-of-summer seminar and barbeque was held to give recognition to new permanent employees, co-op program employees, and summer employees. Ray Stratmeyer and George Crook, Southeastern Region Campus Recruiter, were special guests and participated in discussions with the young employees along with the Plant Manager and his staff. A wide variety of subjects from management by objectives and Organic Division objectives to salary policy and company-wide opportunity were discussed.

Development

1. Messrs. Cain and Sanford, Auburn Engineering Extension Service, and Dean Tucker, Dean Auburn School of Business, discussed Auburn MBA programs and possibilities of remote instruction with twenty professional people at Anniston September 4.
2. Dan Steinmeyer, CED Heat Transfer Specialist, presented a seminar on "Single Phase Heat Transfer" to fifteen technical people on September 20, 1968.

Visitors

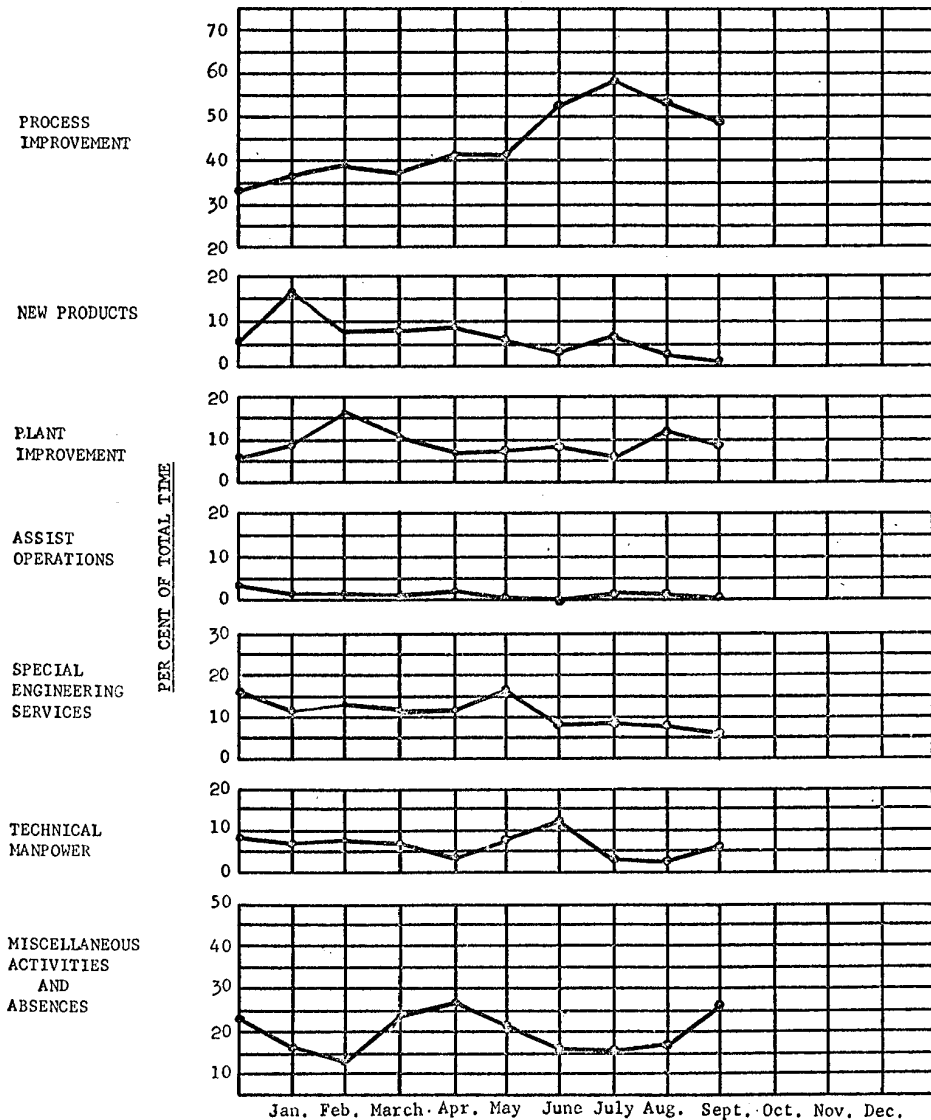
1. R. C. Herman, CED Project Manager, Aroclor (1430) and B. B. Hedleston, CED Project Manager, Warehouse (1452) visited the plant September 18 through 20.
2. R. M. Kountz and J. R. Ryland, CED, were here to discuss scope of the new chlorine tank car facilities (CEA 18-31).
3. Mr. Suwa visited from MMK to discuss Aroclor handling procedures, September 25, 1968.

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TOWOLDMON0044443

DISTRIBUTION OF TIME BY TECHNICAL SERVICE

Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

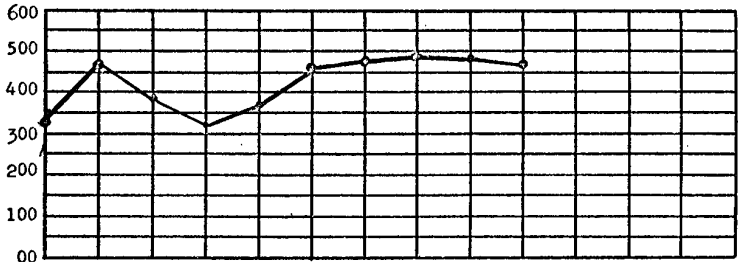


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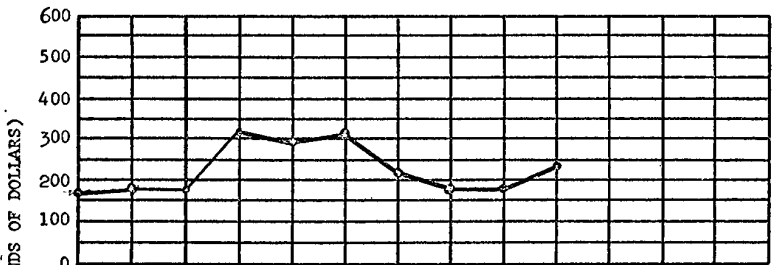
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TSD PROJECT SUMMARY

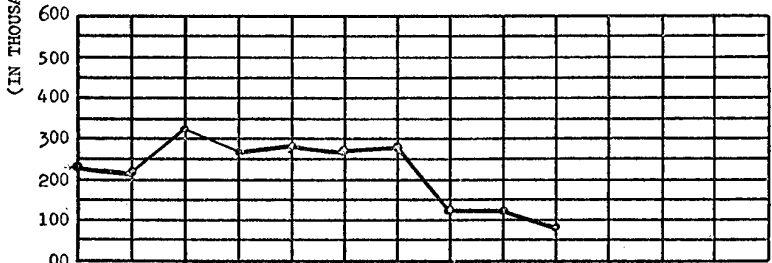
IN
MAINTENANCE
FOR
CONSTRUCTION



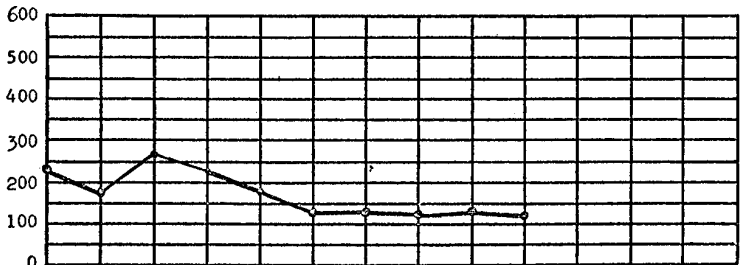
IN MAINTENANCE
COMPLETED
NOT CLOSED



PROJECTS
SUBMITTED
FOR
APPROVAL



APPROVED
PROJECTS
IN TSD



Dec. Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Jan.

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