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To: T. H. Huffman

From: D. C. Skokna
Date: April 23, 1990

Subject: ABERDEEN MONTHLY PROGRESS REPORT
MARCH, 1990

Interoffice
Communication

VISTA

Safety

There was one first aid care reported during March. As of March 31, the Aberdeen plant's employees have worked 3922 days (5,209,719 manhours) since the last lost time injury.

<u>FY 1990 Key Statistical Information</u>	<u>March</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	40.2	219.8
Reactor Stream Factor, %	93.7	86.3
Resin Quality, % Prime	98.2	96.7
VCM Efficiency, Lbs./Lb.	1.0029	1.0011
Flexible Compound Production, MM Lbs.	6.3	36.1
Flexible Compound Quality, % Prime	98.1	98.0
Rigid Compound Production, MM Lbs.	5.8	28.4
Rigid Compound Quality, % Prime	100.0	99.5
Plasticizer Production, MM Lbs.	1.3	9.0
Plasticizer Quality, % Prime	79.0	88.2
Energy Use, (EUI, %)	< 0.7>	< 10.0>
Fixed Cost Variance, \$M	< 5.3>	135.9
Variable Cost Efficiency Variance, \$M	204.0	447.8

Capacity Utilization Factors

Resin	106.3	99.0
Flexible Compound	80.4	77.1
Rigid Compound	95.1	78.7
Plasticizer	55.4	71.9

Operations

A temporary clean wall injection system was tested on D745, but it failed due to inadequate dispersion of the clean wall agent. A modified system will be tested in April.

A trial run to make 5305 using decalcified water was successfully completed. Samples were sent to customers and BASF for evaluation.

In the compound unit, some twenty-four hours were devoted to PLENEX polymers development on Line I.

Rigid compound demand continued to be strong with 2.5MM pounds being tolled for Gold Bond.

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T. H. Huffman

4/23/90

Aberdeen Monthly Progress Report - March, 1990

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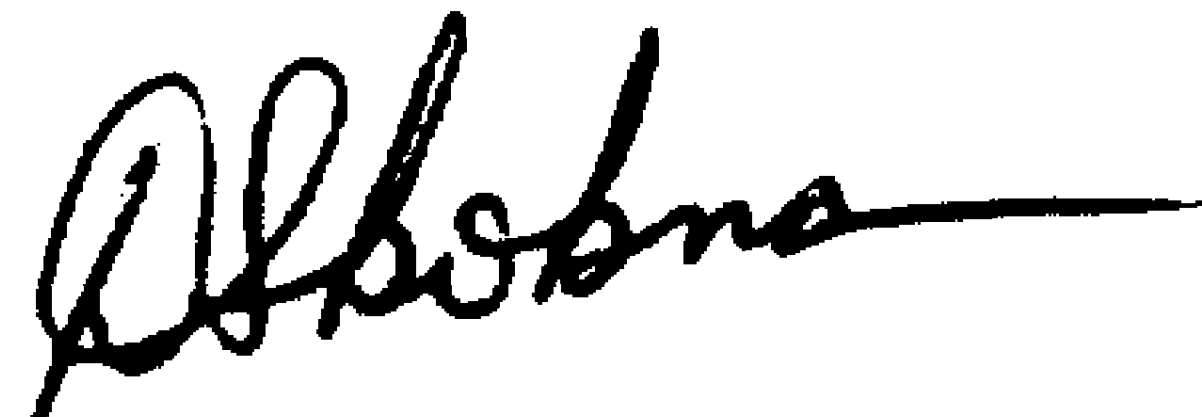
Costs

Variable costs were favorable due to good raw material efficiencies in the resin unit and flexible compound unit, and to product mix effects in the flexible and rigid compound units.

Fixed costs were essentially at budget.

OMP

1. Ninety-five percent of the plant's natural teams met during March. Ratings for the plant's thirty-eight natural teams as of 3/31/90 were 5.1 - up two points from the last measurement.
2. The finalized version of the Q-Scorecard was presented to the facilitators. The facilitators are responsible for helping to communicate the details of the Q-Scorecard to all employees.
3. A full review of Uniroyal specifications was performed. These specifications will be proposed to Uniroyal by Marketing for their approval. The specifications include the most recently requested requirements.



Doug Skokna

Plant Superintendent

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SAFETY - B. L. Trego

	<u>March</u>	<u>Fiscal</u> <u>Y.T.D. 1990</u>	<u>Fiscal</u> <u>Y.T.D. 1989</u>
First Aid	1	7	6
OSHA Recordable	<u>0</u>	<u>3</u>	<u>2</u>
Total Injuries	1	10	8
Number of Restricted Workday Cases	0	2	1
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	0	0	0
Compound Operations	0	2	2
Maintenance	0	6	6
Laboratory	1	1	0
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>1</u>	<u>0</u>
Totals	1	10	8

Injuries by Type

Cuts and Abrasions	0	2	1
Eye Injuries	0	1	0
Burns	0	2	2
Bruises	0	1	2
Strains/Sprains	0	0	2
Stings	1	2	0
Other	<u>0</u>	<u>2</u>	<u>1</u>
Totals	1	10	8

Non-Occupational Injuries

Lost Workday Cases	0	3	2
Days Lost	0	84	42

Safety Record

Last lost time injury - 7/5/79
Days since - 3922
Employee hours since - 5,209,719

On March 31, 1990, the employees of the Aberdeen plant completed 3922 days with no lost time injury.

Topics for the plant safety meetings during the month included reviews of the new Plant Safety Handbook, Safety Attitude, Contractor Safety, Off-the-Job Safety, and Severe Weather Operations.

SAFETY - Continued

A seatbelt survey was done to see how many Aberdeen employees wear seatbelts to work. It showed that over 40% wear seatbelts now versus 27% in a similar 1987 survey.

Annual physical examinations were given this month. The Health Examinetics van was here during the week of March 5, 1990.

Routine dosimetry results for the month were:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
VCM	77	100.0	0	0.0
Lead	17	100.0	0	0.0
Total Particulates	6	100.0	0	0.0

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Laboratory	Wasp sting, left arm.

QUALITY MANAGEMENT PROCESS - M. R. Kane

The finalized version of the Q-Scorecard was presented to the facilitators. The facilitators are responsible for helping to communicate the details of the Q-Scorecard to all employees.

Ninety-five percent of the plant's natural teams met in March with 100% expected in April.

A full review of Uniroyal Plastics specifications was performed. These specifications will be proposed to Uniroyal by Marketing for their approval. The specifications include the most recently requested requirements.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>March, 1990 Variance. \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	\$68.5	\$551.5	\$620.0
Flexible Compound	53.1	186.8	239.9
Rigid Compound	70.7	143.2	213.9
Plasticizer	<u>11.7</u>	<u>19.3</u>	<u>31.0</u>
	\$204.0	\$900.8	\$1104.8

PVC - Raw material usage and product mix were both favorable. Debox production was 55% below budget.

Flexible Compound - Raw material use was \$25.7M favorable, and product mix was \$24.3M favorable.

Rigid Compound - Essentially all of the favorable variance was a result of the product mix.

Plasticizer - High "VRP" production was the primary cause of the favorable variance.

Price Variances

	<u>\$M</u>
- VCM	\$540.1
- Resin to Rigid Compound	143.7
- Resin to Flexible Compound	138.6
- 610P to Flexible Compound	13.5
- Natural Gas	12.2
- Other Price Variances	<u>52.7</u>
Total	\$900.8

Fixed Cost Variances

	<u>\$M</u>
- Payroll and Benefits	<\$37.3>
- MM&C	17.8
- Miscellaneous	11.8
- TI&D	5.9
- Clearances	<u>< 3.5</u>
Total	<\$ 5.3>

Payroll and Benefits - Overtime was high in maintenance for Welex repairs in the rigid compound unit, repairs to the Line III FCM compounder, and centrifuge repairs in the resin unit. Compound department overtime was high due to vacations, illnesses, and National Guard duty.

M. M. & C. - Contract costs were below budget, but these were partially offset by material costs for compound unit repairs and centrifuge repairs.

COST VARIANCES - Continued

Miscellaneous: Major variances in this category were:

- Packaging Supplies - \$17.3M favorable.
- Operating Supplies - \$10.3M unfavorable (due primarily to preparing for work stoppage).
- Casualty Loss - \$13.2M unfavorable (due to Workman's Compensation payments).

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VINYL - J. D. Olson, J. M. Vinoski

Safety

The Vinyl Department had no first aid or OSHA recordable injuries during the month of March.

The monthly safety meeting topic was "Off-the-Job Safety".

General

1. The temporary BUS-80 injection system was tested on D745 in March. The system failed to keep the reactor walls clean due to inadequate dispersion of the BUS-80 in the reactor. The test was discontinued and a new test with a modified injection system is planned for April.
2. The decalcified water test run was completed in March. High resin calcium levels are believed to cause Klockner's graininess problem. Tests show the 5305 resin produced with decalcified water had 4 ppm calcium (20% of normal). Samples were sent to Klockner and BASF, and results are expected in April.
3. The resin raw materials in the 744 account were valued at \$414.5M.

	<u>March</u>	<u>YTD</u>
- Production, MM Lbs.	40.2	219.7
- Daily Rate, M Lbs./C.D.	1295.6	1207.1
- Capacity Utilization Factor, %	106.3	99.0
- Total Reactor Charges	95.6	5159.0
- Charges/C.D.	30.8	28.3
- Reactor Stream Factor, %	93.7	86.3
- Rotary Dryer Stream Factor (#4-#8), %	84.6	75.4
- Fluid Bed Dryer Stream Factor, %	1000.0	90.2
- Resin Quality, % Prime	98.2	96.7

Reactor Downtime

	<u>Hours</u>
- Operational downtime (recovery scheduling conflicts, rinsing chem wash tanks, New Module rinse/charge water conflicts, no place to dump, waiting on Q.C. data before charging, and O-ring leaks).	241.3
- Maintenance downtime (hydroblast reactors and drill condenser on D745, replaced agitator seal on D400, replaced control room Topaz battery backup unit, and miscellaneous valve and instrument repairs).	224.7

VINYL - Continued

<u>Dryer Downtime</u>	<u>% of Total Downtime</u>
- Reactor limited production.	78.2
- Operational downtime (centrifuge plugs, dryer cleaning, and flameouts).	8.3
- Maintenance downtime (centrifuge repairs, replace #6 Bird, shear pins, exhauster maintenance, sparge pipe replacement, Bird boot repairs).	13.5

Key Maintenance Work - J. B. Autrey, J. B. Hegwood

- Reactor 745 was shut down for hydroblasting and condenser drilling during the month as part of the contamination control program.
- The S.A. module Westfalia centrifuge was shut down for preventive maintenance work during the month. A factory representative along with a mechanic disassembled and reconditioned the centrifuge.
- Number 8 Bird centrifuge was removed from service during the month and replaced with a spare. The centrifuge that was removed was rebuilt and will be used as a sparge.
- The old reactor unit recovery condensers were shut down during the month for cleaning because of pluggage.
- The motor on the west fan of #6A cooling tower was replaced because of bad bearings and windings.
- Reactor 400 was shut down for seal replacement on two different occasions during the month. The two seal failures were caused by a plugged lip seal flush line. The line was plugged with resin which stopped the flow of water to the seal.
- The vinyl control room Topaz unit was taken out of service and replaced with the Topaz unit from the compound control room because of bad batteries and a bad system control board. A Topaz service technician is being brought in to service both units and make any needed repairs.
- There were eight major valves changed out in the reactor area during the month.

COMPOUND - J. E. Nickerson, K. G. Akins

Safety

The Compound Department worked without injury in March. The monthly safety meetings were conducted by operators. The topic of the meetings was "Safety Attitude Awareness".

General

Flexible compound demand continued steady in March. Line III was down for eighty-six hours for replacement of the FCM gearbox. Line V was down for sixty-five hours due to maintenance of the Werner-Pfleiderer equipment. PLENEX polymer testing was conducted for a total of twenty-four hours in March on Line I.

Demand for rigid compound remained strong in March. Approximately 2.5MM pounds of tolled dry blend was produced for Gold Bond. Production rates were limited during the month by mechanical problems with Welex #2 discharge gate. A total of sixty-five hours downtime was due to maintenance required to repair the gate and replace bearings.

The remaining two reactor agitator assemblies were replaced in March. Construction was also essentially completed on the API separator revision project. This project, conceived by a team of operators, allows us to recover waste oil from the API separator and re-process it as VRP. This waste oil was previously disposed of by paying a firm to incinerate the oil.

<u>Compound Production</u>	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Line I	31	2035	66	12000
Line III	27.5	3340	121	19916
Line V	21	<u>944</u>	<u>45</u>	<u>4183</u>
Total		6319	204	36099
% Prime		98.1		98.0
Capacity Utilization Factor		.804		.771

Downtime

Hours

Line I

- Product Changes	88
- PLENEX Polymer Testing	24
- Quality Problems & Control	19
- Dicer Problems & Maintenance	13
- Miscellaneous Maintenance	7

COMPOUND - Continued

Downtime - continued

	<u>Hours</u>
<u>Line III</u>	
- FCM Gearbox Replacement	86
- Product Changes	62
- Miscellaneous Maintenance	21
- Quality Problems & Control	8

<u>Line V</u>	
- W-P Maintenance	65
- Product Changes	49
- Miscellaneous Maintenance	27
- Startup/Shutdown	16
- Quality Problems & Control	8

	<u>Operating</u>	<u>Production (M Lbs.)</u>		
	<u>Days</u>	<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Rigid Compound	31	5691	184	28269
% Prime		100.0		99.5
Capacity Utilization Factor		.951		.787

<u>Downtime</u>	<u>Hours</u>
- Welex Maintenance	65
- Product Changes	51
- Quality Problems & Control	32
- Miscellaneous Maintenance	13

	<u>Operating</u>	<u>Production (M Lbs.)</u>		
	<u>Days</u>	<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	28	1320	47	9024
% Prime		79.0		88.2
Capacity Utilization Factor		.554		.719

Key Maintenance Work - J. B. Autrey, J. B. Hegwood

- The Line III mill was shut down for repairs to its FCM gearbox and rotors during the month. The gearbox and rotors, the reduction gearbox and the teflon orifice gate lines were replaced with existing spares. Also during this time, several minor maintenance items were taken care of on the mill.

COMPOUND - Continued

Key Maintenance Work - continued

- The #2 dry blend Welex was shut down for repairs to its bowl during the month. The bearings were replaced in the bowl and new pillow block bearings and a coupling were installed on the main drive shaft.
- The #2 dry blend Welex was shut down for repairs to its bowl gate during the month. The gate was sticking because of a misalignment problem. The gate was removed, machined, realigned and put back in service.
- The condensate return line to the boiler house from the compound unit was replaced because of several leaks that had developed.

UTILITIES - J. B. Autrey, J. B. Hegwood

The old and new unit Lucidol day freezers were replaced during the month because of their deteriorated condition. Two standard chest freezers were purchased to replace the old ones. The freezers were modified to meet the appropriate regulations to use in these areas.

The #2 water well was shut down for repairs to its pump base during the month. The pump base had rusted out at the first coupling.

The boiler blowdown line at the boiler house was replaced because of several leaks that had developed because of a corrosion problem.

ENGINEERING - R. E. Polk, S. C. Hillman, M. R. Kane

PROJECTS IN DEVELOPMENT - GENERAL

EVC Clean Wall Technology

There were problems with contamination and reactor wall scale buildup when the initial closed reactor temporary addition system for D745 was tested. Modifications were made to this addition system and testing began again on April 11. After several batches, contamination and wall scale buildup results look promising.

The class "A" design for permanent installation of clean wall technology was reviewed by the plant. PED has reissued this design and a partial AFE request has been approved to begin purchasing long delivery time items.

Good Manufacturing Practices Manual

A manual has been prepared to document manufacturing practices for making resin for FDA application. This manual was reviewed by the corporate environmental group. Their comments will be incorporated and the manual will be issued for review by the plant.

Third Fiscal Quarter 1990 Capital Budget

The third fiscal quarter 1990 capital budget was issued. AFE's for all projects except the TC Compliance Project were submitted to Houston with the budget.

5305 Decalcified Resin

A test run was completed during the month using decalcified water to make 5305. Calcium content of the charge water was reduced from about 80 ppm to 15 ppm and calcium content of the resin was reduced from 20 ppm to 4 ppm. The level of the competitor's resin is about 1 ppm. American Mirrex is satisfied with the results; Klockner has not commented yet.

Wastewater BOD Reduction

Baffles were installed in the biodisc to increase BOD removal. Modeling of the system predicts a significant reduction. Sampling is being performed to confirm the model.

ENGINEERING - Continued

TC Compliance Project

The class "A" design for the recycle of V-11 centrate and batch water stripper water to the cooling towers has been reviewed. The final design will be issued in April.

Southwire DOE Class

Pete Markey (Quality Development) and Mike Kane taught a course in experimental design to employees at the Southwire plant in Carrollton, Georgia. The course was well received and very successful.

ABERDEEN CHEMICAL PLANT
APPROVED CAPITAL PROJECTS

AFE NUMBER	PROJECT DESCRIPTION	STATUS
A858	ALTERNATE NATURAL GAS PIPELINE	THE SYSTEM HAS BEEN STARTED UP AND IS OPERATIONAL. PURCHASER ITEMS ARE IN PROGRESS. INSTALLATION IS IN PROGRESS AND PLANNED FOR COMPLETION IN AUGUST. CONSTRUCTION IS 95% COMPLETE AND IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MAY. ENGINEERING IS IN PROGRESS. CONTROL ROOM CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR SEPTEMBER. CONSTRUCTION IS IN PROGRESS WITH COMPLETION SCHEDULED FOR AUGUST. CONSTRUCTION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. COMPLETION IS PLANNED FOR APRIL. INSTALLATION WILL BE COMPLETED IN MAY. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JUNE. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. PROJECT COMPLETION IS PLANNED FOR 10/90. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. COMPLETION IS PLANNED FOR 10/90. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR 11/90. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JULY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. A CHANGE ORDER HAS BEEN APPROVED FOR MODIFICATIONS TO AS DRYER. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. MODIFICATIONS TO THE INLET AIR BAFFLES ARE BEING TESTED. INSTALLATION IS IN PROGRESS WITH COMPLETION IN JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR APRIL. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR OCTOBER. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. NEGOTIATIONS ARE UNDERWAY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION OF THE DANGEROUS MOTOR COOLING PIPING IS PLANNED FOR 5/1. DESIGN IS IN PROGRESS ON V-11 DRYER AREA ITEMS. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MID-1991. ENGINEERING IS IN PROGRESS. SPECS HAVE BEEN ISSUED TO T-THERMAL FOR REVIEW. ENGINEERING IS IN PROGRESS ON 25 PROJECTS. EQUIPMENT IS BEING QUOTED.
B818	VINYL VALVE UPGRADE	
A519	PLANT ELECTRICAL UPGRADE	
A449	VINYL CONTROL SYSTEM MODERNIZATION	
A909	INERTS REMOVAL MODIFICATIONS	
C919	NEW WATER WELL	
B419	PROPANE STORAGE AREA DELUGE SYSTEM	
B429	COMPRESSOR REHEATING TRANSFER SYSTEM	
B749	LEAD HANDLING AND EXPOSURE REDUCTION	
B789	INERT GAS PURGING OF PA TANKS	
B849	COMPRESSOR LINE 3 DEMI-BULK LEAD HANDLING	THE SYSTEM HAS BEEN STARTED UP AND IS OPERATIONAL. PURCHASER ITEMS ARE IN PROGRESS. INSTALLATION IS IN PROGRESS AND PLANNED FOR COMPLETION IN AUGUST. CONSTRUCTION IS 95% COMPLETE AND IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MAY. ENGINEERING IS IN PROGRESS. CONTROL ROOM CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR SEPTEMBER. CONSTRUCTION IS IN PROGRESS WITH COMPLETION SCHEDULED FOR AUGUST. CONSTRUCTION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. COMPLETION IS PLANNED FOR APRIL. INSTALLATION WILL BE COMPLETED IN MAY. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JUNE. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. PROJECT COMPLETION IS PLANNED FOR 10/90. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. COMPLETION IS PLANNED FOR 10/90. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR 11/90. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JULY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. A CHANGE ORDER HAS BEEN APPROVED FOR MODIFICATIONS TO AS DRYER. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. MODIFICATIONS TO THE INLET AIR BAFFLES ARE BEING TESTED. INSTALLATION IS IN PROGRESS WITH COMPLETION IN JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR APRIL. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR OCTOBER. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. NEGOTIATIONS ARE UNDERWAY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION OF THE DANGEROUS MOTOR COOLING PIPING IS PLANNED FOR 5/1. DESIGN IS IN PROGRESS ON V-11 DRYER AREA ITEMS. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MID-1991. ENGINEERING IS IN PROGRESS. SPECS HAVE BEEN ISSUED TO T-THERMAL FOR REVIEW. ENGINEERING IS IN PROGRESS ON 25 PROJECTS. EQUIPMENT IS BEING QUOTED.
B859	COMPRESSOR SILD BRIDGE BREAKING	
B899	RAILCAR CLEAVING BACK	
F579	COMPRESSOR BOXING HOPPER MAGNETS	
F669	COMPRESSOR LINE 3 HEATED PLANTICIZER	
F699	LEAD SULFURIC ACID REACTOR EXPANSION	
F739	DRYER NO.8 CONTAMINATION REDUCTION	
F779	DRYER NO.4 CONTAMINATION REDUCTION	
B569	DRYER NO.1 VALVE AND CHUTE REPLACEMENT	
B659	NEW DRYER DAMPERS	
B719	COMPRESSOR SEWER REVISIONS	THE SYSTEM HAS BEEN STARTED UP AND IS OPERATIONAL. PURCHASER ITEMS ARE IN PROGRESS. INSTALLATION IS IN PROGRESS AND PLANNED FOR COMPLETION IN AUGUST. CONSTRUCTION IS 95% COMPLETE AND IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MAY. ENGINEERING IS IN PROGRESS. CONTROL ROOM CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR SEPTEMBER. CONSTRUCTION IS IN PROGRESS WITH COMPLETION SCHEDULED FOR AUGUST. CONSTRUCTION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. COMPLETION IS PLANNED FOR APRIL. INSTALLATION WILL BE COMPLETED IN MAY. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JUNE. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. PROJECT COMPLETION IS PLANNED FOR 10/90. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. COMPLETION IS PLANNED FOR 10/90. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR 11/90. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JULY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. A CHANGE ORDER HAS BEEN APPROVED FOR MODIFICATIONS TO AS DRYER. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. MODIFICATIONS TO THE INLET AIR BAFFLES ARE BEING TESTED. INSTALLATION IS IN PROGRESS WITH COMPLETION IN JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR APRIL. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR OCTOBER. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. NEGOTIATIONS ARE UNDERWAY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION OF THE DANGEROUS MOTOR COOLING PIPING IS PLANNED FOR 5/1. DESIGN IS IN PROGRESS ON V-11 DRYER AREA ITEMS. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MID-1991. ENGINEERING IS IN PROGRESS. SPECS HAVE BEEN ISSUED TO T-THERMAL FOR REVIEW. ENGINEERING IS IN PROGRESS ON 25 PROJECTS. EQUIPMENT IS BEING QUOTED.
B759	WASTE OIL REDUCTION	
B819	VCM SIGHT GLASS REPLACEMENT	
B839	PLANT WATER RECYCLE	
H679	PLANTICIZER REACTOR AGITATORS	
H729	THERME METER REPLACEMENT	
H769	PLANT DIVERTER VALVE REPLACEMENT	
H799	HIGHWAY 25 LAND PURCHASE	
H829	RECOVERY SYSTEM COMPRESSOR - SPARE	
H879	ROOF UPGRADE	
A540	REHEATED FLAME & SMOKE COMPOUND PROJECT	THE SYSTEM HAS BEEN STARTED UP AND IS OPERATIONAL. PURCHASER ITEMS ARE IN PROGRESS. INSTALLATION IS IN PROGRESS AND PLANNED FOR COMPLETION IN AUGUST. CONSTRUCTION IS 95% COMPLETE AND IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MAY. ENGINEERING IS IN PROGRESS. CONTROL ROOM CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR SEPTEMBER. CONSTRUCTION IS IN PROGRESS WITH COMPLETION SCHEDULED FOR AUGUST. CONSTRUCTION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. COMPLETION IS PLANNED FOR APRIL. INSTALLATION WILL BE COMPLETED IN MAY. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JUNE. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. PROJECT COMPLETION IS PLANNED FOR 10/90. LONG LEAD ITEMS HAVE BEEN PLACED ON ORDER. COMPLETION IS PLANNED FOR 10/90. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR 11/90. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR JULY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. A CHANGE ORDER HAS BEEN APPROVED FOR MODIFICATIONS TO AS DRYER. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. MODIFICATIONS TO THE INLET AIR BAFFLES ARE BEING TESTED. INSTALLATION IS IN PROGRESS WITH COMPLETION IN JULY. INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR APRIL. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR JULY. DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR OCTOBER. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION IS COMPLETE EXCEPT FOR PURCHASER ITEMS. NEGOTIATIONS ARE UNDERWAY. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. THE PROJECT WILL BE CLOSED TO FIELD CHANGES IN APRIL. INSTALLATION OF THE DANGEROUS MOTOR COOLING PIPING IS PLANNED FOR 5/1. DESIGN IS IN PROGRESS ON V-11 DRYER AREA ITEMS. ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MID-1991. ENGINEERING IS IN PROGRESS. SPECS HAVE BEEN ISSUED TO T-THERMAL FOR REVIEW. ENGINEERING IS IN PROGRESS ON 25 PROJECTS. EQUIPMENT IS BEING QUOTED.
B560	TC SPILL CONTAINMENT	
H500	PLANT WATER SYSTEM	
H510	WEST INCINERATOR REPLACEMENT	
H520	MISCELLANEOUS CAPITAL PROJECTS < \$15K	
L530	FURNITURE AND OFFICE EQUIPMENT	

ENVIRONMENTAL - F. G. Jeanson

Water

All wastewater discharge parameters were met for the month of March. Bioassay testing was also completed on our wastewater outfall. No toxicity was found in this test.

The Mississippi Department of Environmental Quality (MDEQ) was in the plant during the month to collect samples from our wastewater and storm water outfalls. Results should be issued next month.

Samples from the EPA were received for the annual lab performance evaluation. Results from the lab analysis of the samples will be sent to EPA next month.

A baffle was installed in the biodisc to help increase this unit's efficiency to remove wastewater contaminants. Wastewater parameters will be evaluated in the coming month to determine if this baffle has made a significant difference in the biodisc operation. The biodisc consists of three rotating biological contractors which are highly aerated and remove a large part of the wastewater contaminants.

Waste

Waste shipments for the month included:

- Two bulk loads of separator oil to Systech in Demopolis, AL.
- One bulk load of lead bags to CWM in Emelle, AL.
- One bulk load of API sludge to CWM in Emelle, AL.
- One drum of phthalic anhydride spill to CWM in Lake Charles, LA.

Sludge from pond #3 of our wastewater treatment system was sampled and analyzed for toxicity using the new toxicity characteristic leaching procedure. No toxicity was found in the samples using this test.

Air

The MDEQ did not review the air permit application that we submitted to become a minor source. Instead, they decided to take a different approach. They wanted us to change our air permit application to a construction permit application for the VCSM project. When this was considered by their permit board, we would get both an operating permit with minor source status and a construction permit for the VCSM project. The construction permit application, since it calls for an increase of emissions of a toxic air pollutant, will have to go through a thirty-day public notice period. The public notice will be issued in April and we expect the new permits in May.

ENVIRONMENTAL - ContinuedAir - continued

The new operating air permit will have limits on all of our pollutants. In previous permits, the boilers and particulates were the only things listed. The new permit will include limits on vinyl chloride, plasticizer, alcohol, VOC's on the dryers and incinerators, and all combustion pollutants.

A NESHAP authorization for the VCSM project was also submitted to the MDEQ. This authorization is necessary since we are modifying our plant and increasing the potential for vinyl chloride emissions.

Superfund

Interviews were conducted with employees and contractors to determine what was buried on site. A file search was conducted to find any additional items of information on the sites, geo-technical information or ground-water monitoring results.

A second meeting was scheduled with Conoco for April. During this meeting, we will also meet with a contractor who is interested in reclaiming the resin in old pond #2 for recycle.

Miscellaneous

A notice was published in the paper for the Coker water wells. Proof of publication was sent to the MDEQ.

I attended a meeting of industry and State MDEQ representatives during the month. We discussed the State air toxics program.

MAR-90

WASTE REDUCTION INDEX SHEET

	1988FY	1989FY	90 YTD	3 Month
OVERALL EXCLUDING "TOTAL WASTE WATER"	7648138	8056439	3251151	1683101
NON-RECYCLED WASTE	3150255	3044204	1131287	468036
RECYCLED/SOLD WASTE	4497883	5012236	2119864	1215065
I. Offsite, Hazardous Wastes	321409	329304	168643	62942
a. Land Ban Wastes	2412	6006	510	510
b. Hazardous Solids	79068	89465	28637	23340
c. Non-Hazardous Treated as Hazardous	239930	233833	139496	38892
II. Recycled Hazardous Wastes	653226	688080	248693	122266
III. Offsite, Non-Hazardous Waste	2429430	2357718	846487	363982
a. Recycled	247201	247500	119952	60907
b. Non-Recycled	2182229	2110218	726535	303075
IV. Vulnerable By-Products	3397456	4076656	1751218	1031893
V. Total Waste Water	4424987560	4278245861	2436170178	1198576094
VI. Air & Water	646617	604682	236109	102019
a. SARA - Air	73316	65694	29356	14703
b. SARA - Water	55	333	238	88
c. Non-SARA - Air	264206	264290	48735	19722
d. Non-SARA - Water	309040	274364	157579	67505

VAB.0001190150

Mar-90

WASTE REDUCTION INDEX SHEET

	3 MONTH	ZMRI 90 YTD	1989FY
OVERALL EXCLUDING "TOTAL WASTE WATER"	86.27%	86.40%	103.51%
NON-RECYCLED WASTE	56.89%	72.99%	94.96%
RECYCLED/SOLID WASTE	103.44%	93.79%	109.51%
I. Offsite, Hazardous Wastes	74.99%	106.64%	100.68%
a. Land Ban Wastes	80.98%	42.98%	244.74%
b. Hazardous Solids	114.00%	73.61%	111.19%
c. Non-Hazardous Treated as Hazardous	62.07%	118.17%	93.77%
II. Recycled Hazardous Wastes	71.67%	77.38%	103.51%
III. Offsite, Non-Hazardous Waste	57.37%	70.82%	95.37%
a. Recycled	94.35%	98.42%	98.39%
b. Non-Recycled	53.18%	67.67%	93.83%
IV. Vulnerable By-Products	109.84%	98.94%	111.36%
V. Total Waste Water	103.72%	111.89%	95.01%
VI. Air & Water	60.41%	74.21%	91.90%
a. SARA - Air	76.79%	81.93%	88.05%
b. SARA - Water	612.22%	873.92%	592.12%
c. Non-SARA - Air	28.58%	37.49%	98.30%
d. Non-SARA - Water	83.64%	103.63%	87.24%

ENERGY CONSERVATION - D. A. Moore

	<u>March, 1990</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u> ⁽¹⁾		
A. Unadjusted EUI	<0.8%>	< 9.7%>
B. Adjusted EUI	<0.7%>	< 10.0%>
C. BTU/Lb. Product	2471.0	2695.0
D. Total Energy Consumption MMM BTU	132.49	788.71

II. Plant Energy Conservation Program

A. Maintenance

There were twenty-nine energy related items completed in March, 1990. Twenty-five of these items were steam leak repairs. The remaining four were steam trap repairs.

III. Boiler Operation

<u>Boiler</u>	<u>Combustion Efficiency %</u>	
	<u>Mar., 90</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.2%	83.4%
No. 2	(1)	83.3%
No. 3	83.0%	83.0%

(1) Boiler number two was not operated during the month.

HUMAN RESOURCE REPORT**MARCH, 1990****Personnel** - J. E. Beall**Employment**

None

Promotions/Transfers

James M. Edwards - Promoted to Chief Plant Chemist from Process Engineer.

Jim Vinoski - Transferred to Operations Engineer-Vinyl from Mechanical Engineer.

Robert Rickert - Promoted to Design Drafter from Drafter.

Rita Holloway - Promoted to Secretary from Steno Clerk.

Amy Vernon - Promoted to Cost/Fixed Asset-Accountant from Accounting Clerk.

Teresa Pounders - Promoted to Materials Coordinator from Accounting Clerk.

Judith Frossard - Promoted to Analyst-Payroll from Payroll Clerk.

Sharon Palmer - Promoted to Materials Coordinator from Accounting Clerk.

Michael Kane - Promoted to Senior Process Engineer from Quality Management Coordinator.

Debra Lemmons - Job reclassification from Steno Clerk to Analyst-Maintenance.

Terry Sullivan - Job reclassification from Steno Clerk to Secretary/Receptionist.

Human Resource Report
March, 1990
04/12/90
Page 2

Cremolia Wren - Job reclassification from Accounting Clerk to Analyst-Accounts Payable.

Joyce Frederick - Job reclassification from Order Clerk to Analyst-Order Entry.

Jim Jessup - Promoted from Lab Trainee to Laboratory "A" Technician.

Dale Wilbanks - Employee bid to Compound Utility position from General Helper-Compound.

Mark Williams - Employee bid to Compound Utility position from General Helper-Compound.

Jimmy Winders - Employee bid to Compound Utility position from General Helper-Compound.

Robert Williams - Employee bid to Lab Trainee position from Head Building Attendant.

Jimmy Morgan - Promoted to Maintenance General Mechanic "B" from Maintenance Helper.

Jeffrey Sykes - Promoted to Laboratory "A" Technician from Lab Trainee.

Jerry Jenkins - Employee bid to Head Building Attendant from Compound Operator.

RETIREMENTS

None

TERMINATIONS/RESIGNATIONS

Kenneth Birck

TO/FROM LEAVE OF ABSENCE

None

ABERDEEN, MISSISSIPPI

March, 1990

MONTHLY PERSONNEL REPORT

Salaried Employees 75*
 Hourly Employees 172
 Total Employees 247

Minority Employees #, %
 Salaried 6 8%
 Hourly 66 38%
 Total 72 29%

Employees (Hourly)

New Employees 0
 Terminations 0

Hourly Min. Hired 0
 % Min. Hired 0
 Hourly Min. Term. 0
 % Min. Term. 0

DEPARTMENTS	PAR	#EMPLOYEES	MIN.	EMP.	MIN.	NEW HIRES	YTD	TERM.	YTD	TURNOVER	YTD
Warehouse	<u>16</u>	<u>15</u>	<u>8</u>	<u>53</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Gen. Plant	<u>13</u>	<u>16</u>	<u>5</u>	<u>31</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Maintenance	<u>41</u>	<u>41</u>	<u>10</u>	<u>24</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Laboratory	<u>24</u>	<u>24</u>	<u>5</u>	<u>22</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Compound	<u>40</u>	<u>38</u>	<u>26</u>	<u>67</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Vinyl	<u>33</u>	<u>33</u>	<u>10</u>	<u>30</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Plasticizer	<u>5</u>	<u>5</u>	<u>2</u>	<u>40</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Number of Applicants:

Month 0 Year To Date 0

APPLICANT BREAKDOWN:

Minority 0 % Minority 0

Female 0 % Female 0

Hires (Hourly):

Month 0 Year To Date 0

Terminations (Hourly):

Month 0 Year To Date 0

Overall Turnover 0

Projected Annual Turnover 0

ABERDEEN CHEMICAL PLANT
DEPARTMENTAL HOURS ANALYSIS REPORT
DISTRIBUTION LIST RWS, JFC, JYU, DEPARTMENT HEADS, FILE
10/ 2/89 THRU 4/ 1/90

1990 FISCAL YEAR-TO-DATE

DEPT	STR TIME HRS WKD	OVERTIME HOURS		OVERTIME AS A % OF STR TIME	ABSENCE HRS LOST	ABSENCE AS A % OF STRAIGHT TIME					YEAR-TO- DATE	VACATION HOURS
		OVERTIME NONCONTROL	OVERTIME HOURS CONTROL			SICKNESS	PAID	OTHER NONPAID	TOTAL			
YARD	8041.75	252.00	796.75	13.04	91.75	0.00	0.45	0.69	1.14	1.23	692.00	
UTILITY	3854.50	144.00	718.50	22.38	252.00	6.54	0.00	0.00	6.54	6.28	296.00	
MAINTENANCE	32254.25	307.75	5285.25	17.34	1591.75	3.72	0.30	0.92	4.94	4.99	3064.00	
QC LAB	17870.75	324.00	828.50	6.45	404.50	0.94	0.07	1.26	2.26	2.44	856.00	
JANITORS	2075.00	0.00	83.00	4.00	5.00	0.00	0.00	0.24	0.24	0.23	208.00	
WAREHOUSE	6296.00	0.00	456.25	7.25	786.50	11.63	0.38	0.48	12.49	12.10	480.00	
STORES	1868.75	0.00	58.50	3.13	36.25	0.43	0.00	1.51	1.94	1.86	132.00	
DEVELOPMENT LAB	5498.00	66.25	487.75	10.08	27.75	0.44	0.00	0.07	0.50	0.49	552.00	
DRY BLEND	5994.75	36.00	473.25	8.49	33.00	0.00	0.00	0.55	0.55	0.53	400.00	
COMPOUND	38029.00	240.00	3566.25	10.01	1148.75	2.02	0.33	0.68	3.02	3.07	1964.00	
VINYL	38177.50	1152.00	3728.25	12.78	679.25	0.47	0.29	1.01	1.78	1.72	2080.00	
PLASTICIZER	4742.50	60.00	201.25	5.51	167.75	2.28	0.00	1.26	3.54	4.16	356.00	
GENERAL HELPERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL PLANT	164703	2582.00	16683.50	11.70	5224.25	2.09	0.25	0.84	3.17	3.19	11080.00	

TOTAL PLANT HOURS FOR JURY DUTY..... 80.00
TOTAL PLANT HOURS FOR NATIONAL GUARD/RESERVE DUTY..... 12.00
TOTAL PLANT HOURS FOR DEATH IN FAMILY..... 312.00

ABERLON CHEMICAL PLANT
 DEPARTMENTAL HOURS ANALYSIS REPORT
 DISTRIBUTION LIST RWS, JFC, JVD, DEPARTMENT HEADS, FILE
 3/ 5/90 THRU 4/ 1/90

MARCH, 1990

DEPT	STR TIME HRS WRKD	OVERTIME HOURS		OVERTIME AS A % OF STR TIME	ABSENCE HRS LOST	ABSENCE AS A % OF STRAIGHT TIME			YEAR-TO- DATE	VACATION HOURS
		OVERTIME NONCONTROL	OVERTIME CONTROL			SICKNESS	PAID	OTHER NONPAID		
YARD	1320.00	0.00	32.00	2.42	0.00	0.00	0.00	0.00	1.23	24.00
UTILITY	624.00	0.00	62.00	9.94	0.00	0.00	0.00	0.00	6.28	48.00
MAINTENANCE	5083.25	0.00	798.00	15.70	228.75	3.15	0.00	1.35	4.99	624.00
QC LAB	2883.75	0.00	118.50	4.11	72.25	0.00	0.00	2.51	2.44	72.00
JANITORS	160.00	0.00	4.25	2.66	0.00	0.00	0.00	0.00	0.23	0.00
WAREHOUSE	1031.75	0.00	29.50	2.86	240.25	23.26	0.00	0.02	23.29	8.00
STORES	304.00	0.00	2.00	0.66	8.00	2.63	0.00	0.00	2.63	8.00
DEVELOPMENT LAB	943.50	0.00	64.75	6.86	0.50	0.00	0.00	0.05	0.05	16.00
DRY BLEND	1008.00	0.00	46.75	4.64	0.00	0.00	0.00	0.00	0.53	12.00
COMPOUND	5963.25	0.00	731.25	12.26	91.25	0.00	0.20	1.33	1.53	508.00
VINYL	5920.00	0.00	463.50	7.83	160.00	0.41	0.20	2.09	2.70	280.00
PLASTICIZER	702.00	0.00	60.50	8.62	14.00	1.71	0.00	0.28	1.99	108.00
GENERAL HELPERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PLANT	25943.50	0.00	2413.00	9.30	815.00	1.71	0.09	1.34	3.14	1708.00

TOTAL PLANT HOURS FOR JURY DUTY..... 12.00
 TOTAL PLANT HOURS FOR NATIONAL GUARD/RESERVE DUTY..... 0.00
 TOTAL PLANT HOURS FOR DEATH IN FAMILY..... 12.00

ADMINISTRATIVE SERVICES - J. E. Little

Safety

There were no safety instances this month.

Cost Savings

Savings due to competitive bidding were \$891 for March, and \$72,355 for FY1990.

Savings due to prompt payment discounts were \$2,300 for March, and \$12,817 for FY1990.

Savings due to using excess materials (AFE and work order stores) were \$8,121 and \$14,306 for March and FY1990, respectively.

Warehouse - Finished Goods Inventory

Slow moving and off-grade inventories still remain a major concern.

	<u>Slow Moving</u>	<u>Offgrade</u>
Flexible Compounds (M Lbs.)	931	481
Rigid Compounds (M Lbs.)	<u>132</u>	<u>41</u>
Total	1063	522

Revised list has been provided to Fred Williams.

Employee Development

Ann Wren began cross-training on the Materials Coordinator - 0739 position.

Janice Minga has been training in the Stores Supervisor position for vacation relief and development.

Meetings

3/02 Central safety meeting.

3/06 Lab Natural Team (Pat Wells).

3/08 Tommy Cummings and Judy Frossard assisted Kerr-McGee with payroll questions related to a twelve-hour shift.

3/15 Quarterly carrier performance with Ergon and M.S. Carrier.

3/15 Guards Natural Team (Tommy Cummings).

3/20 Activity-based cost accounting.

ADMINISTRATIVE SERVICES - Continued

Meetings - continued

3/27-28 OASIS presentation in Houston; Jack Little, Amy Vaughn, Linda Michels and Amy Bagwell attended.

Numerous negotiations/preparation meetings for the 3/19/90 vote.

LABORATORY - J. M. Edwards, Jr.

A. Safety - There were no safety incidents in the Laboratory for March. The monthly safety meeting topic was the "Phillips' Plant Explosion Film" with Billy Paul Sizemore in charge of the meetings.

B. Customer Contacts - There were no customer visits made in March.

C. Customer O.C. Problem Reports

3/05 - Southwire, Carrollton, GA

Localized contamination was found in the tops of two compartments of a 5415 railcar. The material was accepted after further sampling. A Southwire technician reported that the contamination samples had been thrown away so there was nothing to analyze. It is suspected that the contamination comes from jarring the loading chute after the silo goes empty.

3/28 - Wexford International, Mendham, NJ

The customer, Chemical Resins Corporation in Toronto, Canada complained of a "foul aroma in Vista material". A sample was received and was found to contain blue/white dry blend. The product was sold as sifter overflow/resin offgrade.

D. Requests for Corrective Action

There were no requests for corrective action during the month of March.

E. Product Waivers

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Blane	5395	Static Flow	4 R/C
Blane	5415	Static Flow	1 R/C
D. G. Moulding	5305	Particle Size	1 R/C
Essex Group	5415	Static Flow	2 R/C
Southern Plastics	5385	Particle Size	1 R/C

LABORATORY - Continued

F. RVCM Summary

RVCM of In-Process Samples

The following is a summary of residual VCM results on in-process samples. None of the reactor daily averages exceeded 400 ppm RVCM during the month of March, 1990.

	Reactor <u>Slurries</u>	<u>5265</u>	<u>Drier</u> <u>5305</u>
Number of Samples	956	39	47
Average RVCM, ppm	125	0.437	0.365

RVCM of Shipment Samples

The following is a summary of the residual VCM analysis of shipment samples for the month of March, 1990.

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5265	51	0.135
5305	84	0.149
5385	55	0.440
5395	8	0.148
5415	76	0.024
Dry Blend	60	0.095
Debox	19	0.472
Pond	0	

G. Resin Process Capabilities (based on dryer "regulars")

	<u>5265</u>	<u>5305</u>	<u>5385</u>	<u>5395</u>	<u>5415</u>
Bulk Density	1.42	0.89	1.40	0.23	1.36
Inherent Viscosity	0.81	0.80	0.79	2.25	0.67
(vs. 0.715 - 0.744)	----	0.47	----		
L Color	6.17	3.25	4.22	13.67	4.67
A Color	3.33	8.00	----		
B Color	3.00	6.00	2.67	6.00	6.67
% on Pan	2.83	0.56	1.67	1.38	3.78
(vs. 2%, max.)	----	----	----	----	0.44
% thru 140 Mesh	1.74	0.44	1.63	1.44	5.44
Drytime	----	----	2.00	1.00	1.00
Mets I.R.	----	----	----	6.97	3.08
(vs. 95% of control)	----	----	----	----	1.92
Hard Particles, (% > 10)	----	----	26.4	4.3	----
Average particle size, microns	139	135	164	158	172

LABORATORY - Continued

H. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>(%)</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	31.0	<0.48>	28.3	<0.43>
Color	----	----	10.1	<0.16>
Hard Particles	----	----	72.3	<1.11>
Contamination	----	----	4.3	<0.07>
Dicing	----	----	27.9	<0.43>
Cross Contamination	----	----	18.5	<0.28>
Streamers	----	----	0.8	<0.01>
Metal	----	----	2.8	<0.04>
Totals	31.0	<0.48>	165.0	<2.53>

I. Rigid Compound Quality Summary

	<u>Rejections</u>	
	<u>M Lbs.</u>	<u>(%)</u>
Torque Rheometry	72.8	<1.27>
Color	8.3	<0.15>
Total	81.1	<1.42>

J. Miscellaneous

1. The IBM xT computer that was being used to store compound and dry blend data was moved to B. P. Sizemore's office (Q.C. Lab Supervisor). Here it will be used for certificates of analysis, resin shipment data evaluation and natural team reports.
2. Dave Cox assisted with the new administrative services computer installation after the EDS line was assigned. Dave also helped train the operator on how to move from one application to another.
3. The laboratory procedure to operate the new tensile tester, Sintech, was completed. Technician training is also complete.
4. Jim Edwards attended a three-day course in Interaction Management.
5. All six natural teams met once during the month. Five of the teams were trained in problem solving techniques. The Chief Plant Chemist's Natural Team reviewed goals, the Q-Scorecard discussed the Supervisory Development Program and presented the Vista Environmental Policy.
6. Ruby Boyd attended the United Blood Services Recognition luncheon in Tupelo on 3/22/90 representing Vista.

SAMPLE SHIPMENTS

MARCH 1990

RESIN

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
3/01/90	5265	2 lbs.	Imperial Research
	5305	2 lbs.	
	5385	2 lbs.	
	5415	2 lbs.	
3/05/90	Pond Resin	20 lbs.	Ronald Mark Assoc. Inc.
3/05/90	Pond Resin	50 lbs.	NICOLAS MARTINO
3/07/90	5305	50 lbs.	Nibco
3/08/90	5305	50 lbs.	NOVA PETROCHEMICAL INC.
3/08/90	5415	50 lbs.	Tennessee Eastman Co.
3/08/90	5265	50 lbs.	Arlington Mills Inc.
3/12/90	Pond Resin	50 lbs.	Kare Plastics
3/13/90	5415	50 lbs.	Cerro Wire & Cable Co.
3/19/90	5305	100 lbs.	United Tech. Automotive
3/20/90	Pond Resin	50 lbs.	Conex of Georgia
3/21/90	5465	100 lbs.	Vista - Austin
3/23/90	5385	5 lbs.	Plastomeric
	5415	5 lbs.	
3/30/90	5415	50 lbs.	CELMAR TRADING CO.
3/30/90	5385	50 lbs.	BATA SHOE CO. OF THAILAND

COMPOUND

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
3/13/90	39012 BLK	250 lbs.	Superior Cable
3/13/90	17121 WAT CLR	200 lbs.	Trim Plastics
	17462 GRY 545	200 lbs.	
	16841 NAT	50 lbs.	
3/21/90	452-31A WAT CL	200 lbs.	Flexible Technologies

COMPOUND (Cont.)

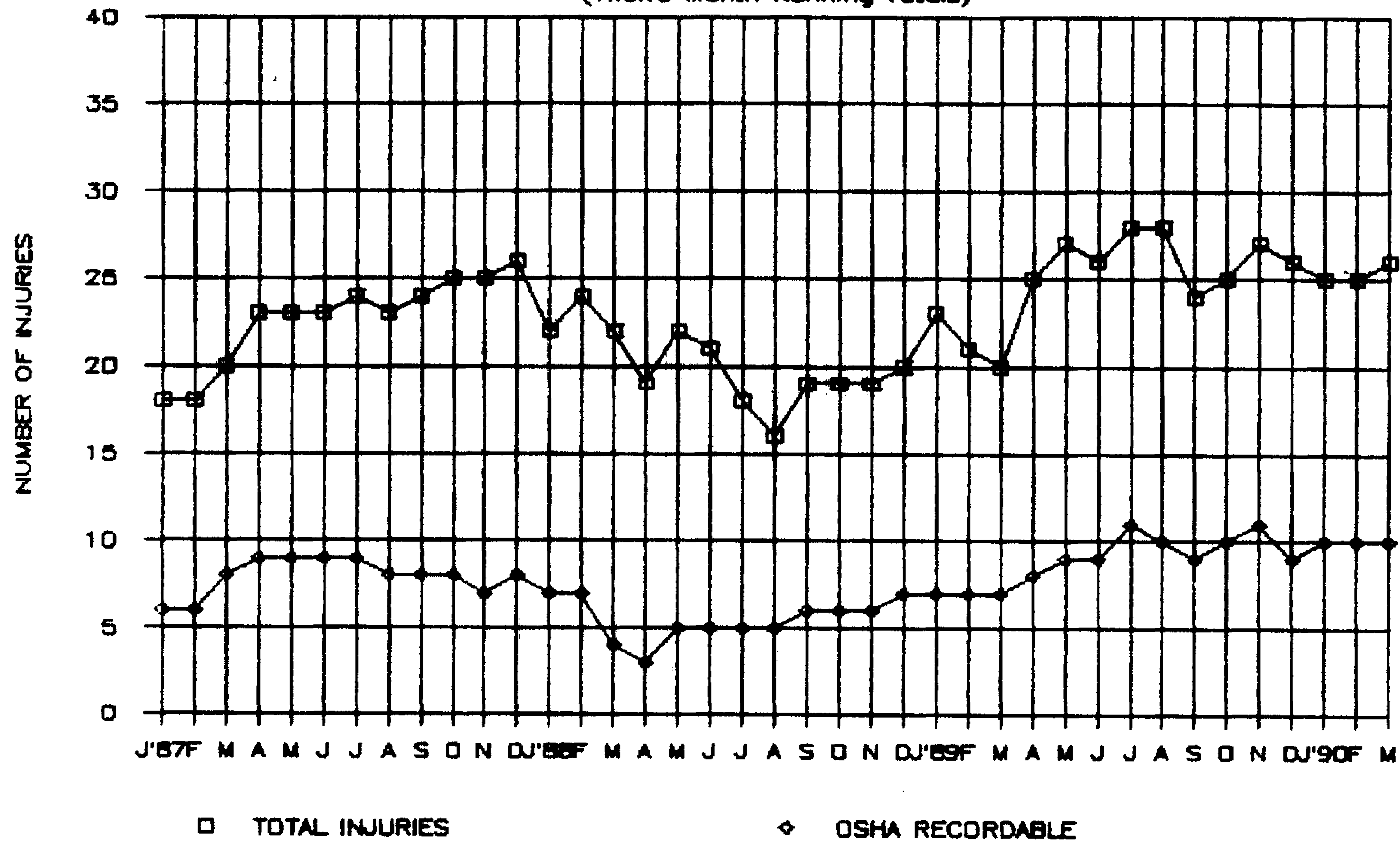
<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
3/23/90	18961 NAT	50 lbs.	Florida Central Extrusion
3/26/90	34311 BGE 10	1500 lbs.	Superior Cable
3/29/90	17462 BLK	50 lbs.	D. G. Moulding

DRYBLEND

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
3/12/90	90172D WHT 110	1400 lbs.	U-Brand

ABERDEEN CHEMICAL PLANT INJURIES

(Twelve Month Running Totals)



ABERDEEN ENERGY CONSUMPTION

