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To: H. W. Hilgers

From: R. W. Seymour
Date: March 18, 1993

Interoffice
Communication

Subject: ABERDEEN MONTHLY PROGRESS REPORT
FEBRUARY, 1993

VISTA

Safety

There were one medical treatment and three first aid injuries in February. The medical treatment injury was a Yard Operator who received a laceration to his upper right leg with his knife when cutting a railcar seal. As of February 28, the plant's employees completed 144 days (180,077 employee hours) since the last lost time injury.

FY1993 Key Statistical Information

	<u>Feb.</u>	<u>YTD</u>
PVC Production, MM Lbs.	34.3	191.8
Reactor Stream Factor, %	85.7	89.8
Resin Quality, % Prime	96.3	96.8
VCM Efficiency, Lbs./Lb.	1.0692	1.0444
Compound Production, MM Lbs.	6.1	31.4
Compound Quality, % Prime	97.3	97.4
Plasticizer Production, MM Lbs.	1.5	8.1
Plasticizer Quality, % Prime	81.1	82.1
Energy Use, (EUI, %)	< 15.9>	< 13.4>
Fixed Cost Variance, \$M	100.5	78.5
Variable Cost Efficiency Variance, \$M	< 137.3>	< 222.7>

PVC Operations

February PVC resin production was 34.3MM pounds or 92.2% of budget. Major downtime was experienced in February due to fluid bed dryer problems. Percent asset utilization for February was 77.0%.

Compound Operations

Orders for flexible compound continue to be strong. February production was at budget, but 500M pounds less than the previous month because of the short month.

Costs

Variable costs were unfavorable mainly because of VCM efficiency.

Fixed costs were favorable overall and favorable in all major categories except Miscellaneous.

R. W. Seymour

R. W. Seymour
Plant Manager

VAB.0001188677

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SAFETY - C. M. Markerson/J. V. Uptain

	<u>Feb.</u>	<u>Fiscal</u> <u>Y.T.D. 1993</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>
First Aid	3	4	4
OSHA Recordable	<u>1</u>	<u>5</u>	<u>3</u>
Total Injuries	4	9	7
Number of Restricted Workday Cases	0	2	2
Number of Lost Workday Cases	0	1	0

Injuries by Department

Vinyl Operations	1	2	0
Compound Operations	1	3	3
Maintenance	1	2	4
Laboratory	1	1	0
Receiving/Warehouse	0	1	0
Office	<u>0</u>	<u>0</u>	<u>0</u>
Totals	4	9	7

Injuries by Type

Cuts and Abrasions	3	3	3
Eye Injuries	0	1	0
Burns	0	2	1
Bruises	1	3	0
Strains/Sprains	0	0	3
Stings	0	0	0
Other	<u>0</u>	<u>0</u>	<u>0</u>
Totals	4	9	7

Non-Occupational Injuries

Lost Workday Cases	0	2	5
Days Lost	0	39	37

Contractor Injuries

First Aid Cases	0	0	3
Medical Treatment Cases	0	1	0
Lost Workday Cases	0	0	0

Safety Record

Last lost time injury - 10/7/92
Days since - 144
Employee hours since - 180,077

On February 28, 1993, the employees of the Aberdeen plant completed 144 days with no lost time injury.

SAFETY - Continued

Topics for the plant safety meetings during the month included: Lead and Cadmium Health Training. Training participation was 90%+.

All fire extinguishers and safety showers were inspected during February.

The hands-on portion of the interim physicals was completed during February.

Chris Markerson attended the Behavioral Science Technology seminar in New Orleans.

Routine dosimetry results for the month were:

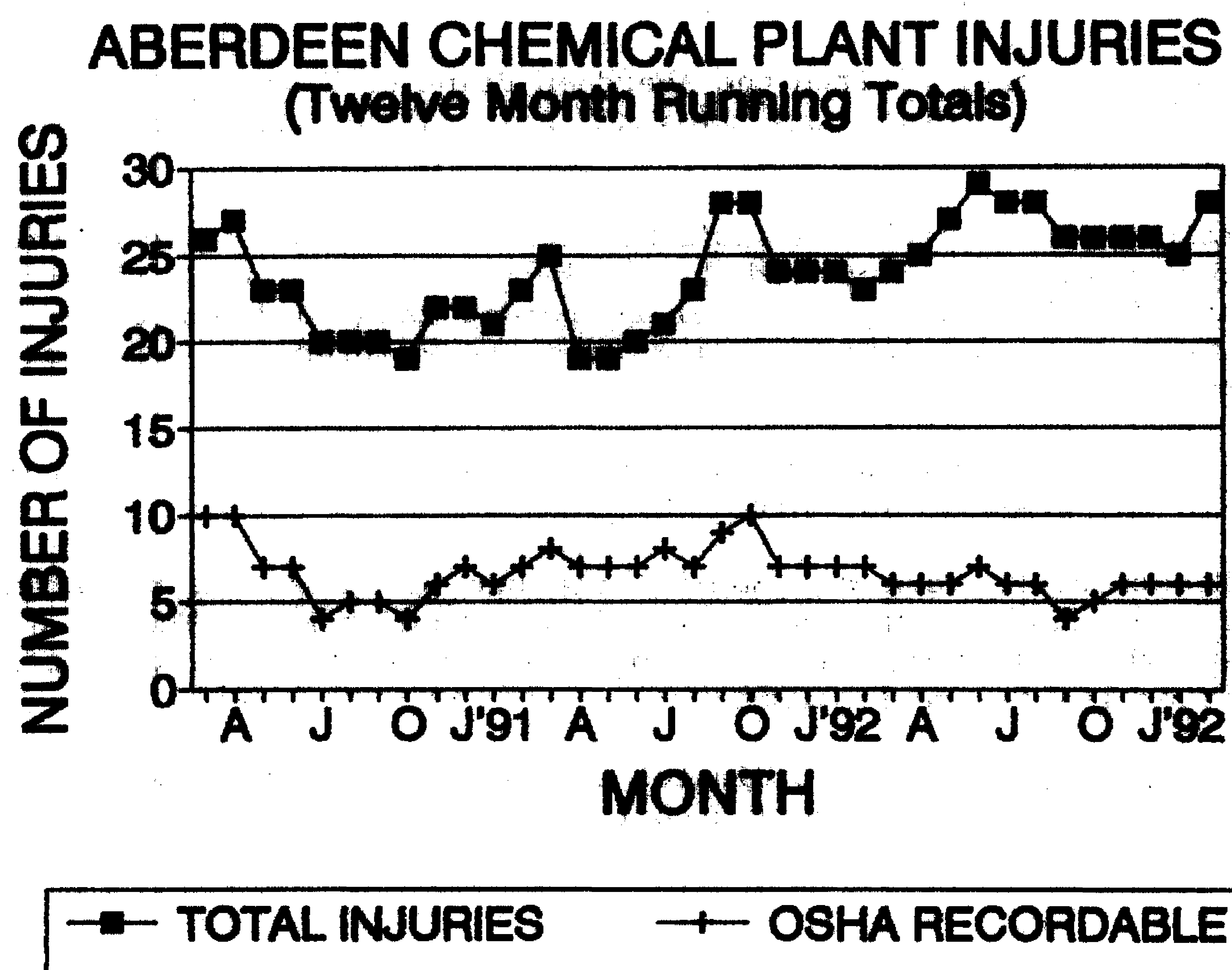
<u>Chemical</u>	<u>< PEL</u>		<u>> PEL</u>	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
VCM	70	98.6	1	1.41
Lead	2	100.0	0	0
Total Particulates	1	100.0	0	0

The single VCM overexposure was with benefit of respiratory protection.

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Compound	Cut of middle finger, left hand.
MTO	Vinyl	Laceration of right leg received when cutting a railcar seal.
FA	Lab	Laceration of left hand.
FA	Maintenance	Contusion of middle finger, right hand.

5 March 1993



QUALITY MANAGEMENT PROCESS - E. E. Smith

Armor Bond personnel visited the Aberdeen Plant on February 9. They toured the vinyl plant and the Q.C. lab. They discussed product specifications and problems that they are having. A joint visit with R&D was planned.

Variform personnel visited the Aberdeen Plant on February 25. They toured the vinyl plant and the Q.C. lab. They discussed product specifications.

The Maintenance Superintendent's Natural Team presented two natural team projects. They reviewed the stocking list eliminating obsolete parts and adding new parts. This project reduced inventories by \$65,000. They developed and upgraded the Maintenance Department personnel skill tests.

The Instrument Technicians Team recommended upgrading the controls used in the plasticizer unit.

The Electricians Team recommended the use of vibration resistant lights and fixtures in the V-10 and V-11 buildings. They ran a four-month test using a laboratory shaker to identify vibration resistant lights and fixtures.

The Quality Management Coordinator attended a Ford Value Analysis/Value Engineering introduction course.

COST VARIANCES - R. W. Seymour

Variable Costs

<u>Product</u>	<u>Feb., 1993 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	<151.9>	<648.2>	<803.1>
Flexible Compound	< 17.8>	95.6	77.8
Plasticizer	<u>35.4</u>	<u>< 1.0></u>	<u>34.4</u>
Total	<137.3>	<553.6>	<690.9>

PVC Resin

The negative efficiency variance for PVC is primarily due to an unfavorable VCM efficiency <\$194M>. Investigation of the VCM inbound accounting system for February has not revealed any problems. We are continuing to investigate potential causes for efficiency losses in our in-process and end product accounting systems.

Major Price Variances:

	<u>Variance - \$M</u>
= VCM	<\$689.4>

Fixed Cost Variances

	<u>Variance - \$M</u>
= Payroll and Benefits	\$35.1
= MM&C	74.5
= Miscellaneous	< 37.2>
= TI&D	3.1
= Clearances	<u>25.0</u>
Total	\$100.5

Payroll and Benefits

Operating and Maintenance payrolls were under budget because of the short month and no holidays. Benefits were \$11.5M of the variance.

MM&C

Both materials and contracts were under budget as planned.

Miscellaneous

This category is over budget mainly because of unbudgeted moving and home assistance expense and hands-on physical exams in February.

COST VARIANCES - Continued

Taxes and Insurance

This category was essentially at budget.

Clearances

This category continues to be unfavorable because of minimal activity on the Pond #2 cleanout project. Work on this has essentially stopped waiting for Conoco to remove the excavated dirt from the plant for disposal.

VINYL - J. D. Olson, W. S. CarrollSafety

The Vinyl Department had one injury in February. The injury required medical treatment to a Yard Operator when he cut his leg with a knife while removing a railcar seal. The cut required stitches.

The monthly safety meetings were held on shift.

General

1. February production was 34.3 MM pounds of which 33.0M pounds was prime grade resin. Percent asset utilization for February was 77%.

	<u>February</u>	<u>YTD</u>
- Production, MM Lbs.	34.3	191.8
- Daily Rate, M Lbs./C.D.	1223.2	1270.2
- Capacity Utilization Factor, %	92.1	95.6
- Total Reactor Charges	82.6	4499.0
- Charges/C.D.	29.5	29.8
- Reactor Stream Factor, %	85.7	89.8
- Rotary Dryer Stream Factor (#4-#8), %	94.8	92.8
- Fluid Bed Dryer Stream Factor, %	86.5	91.0
- Resin Quality, % Prime	96.3	96.8

2. New agitator blades were installed in D-700. These blades will improve quality (reduced hard particles) and allow production of Type I 5385 in D-700. Production of 5385 in D-700 provides more flexibility of operation during product changes which will result in reduced downtime. Estimated production increase with new blades is 700M lbs./year.
3. The relief valves were changed on D-600 to allow production of low mole resin in D-600. We are working with PED to determine if a set of relief valve settings can be attained to allow production of the full range of products in D-600.

Reactor Downtime

	<u>Hours</u>
■ Operational downtime (limited blend tank space, new D-700 agitator blades, D-600 relief valves, low empty hopper cars, holding charges due to bad weather, and recovery scheduling conflicts).	463.0
■ Maintenance downtime (fluid bed dryer blower motor, fluid bed dryer centrifuge repairs, D-600 agitator gearbox and hydroblasting, D-745 condenser).	497.0

VINYL - Continued

<u>Dryer Time</u>	<u>Total % of Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	37.4
■ Maintenance downtime (activator problems, centrifuge repair).	10.1
■ Reactor limited production.	52.5

Key Maintenance Items - J. B. Autrey/S. A. Truitt

- Large reactor seal 700 failed due to lubrication problems. The seal was changed and rebuilt for a spare, and lubrication was changed to be the same as New Unit on all Old Unit seals.
- Reactor 700 was hydroblasted in an effort to control contamination. The blades on the agitator were also changed out.
- The north fluid bed dryer Bird centrifuge was pulled from service due to high vibration. The centrifuge was sent out for repair at Bird's shop. The demister pads were also changed out.
- The "B" recovery compressor was taken out of service and rebuilt for a spare. It was due to normal wear.
- Reactor 743 seal failed due to normal wear after forty months in service.
- Reactor gearbox on 600 was replaced due to bearing failure on the input drive. The fluid coupling was also replaced.
- Reactor 600 relief valves and safety discs were changed out for the low mole conversion.
- The New Unit cooling tower pump was taken out of service. Failure was due to normal wear after 10+ years of service. A new split mechanical seal replaced the old seal to decrease maintenance downtime on future seal leaks.
- The motor on #9 air compressor was replaced.
- The valves on #8 air compressor were repaired.
- The motor on the backmix section of the fluid bed was removed twice from service. The cause was bad bearings and bad armature.
- The #5 boiler feedwater pump was rebuilt and reinstalled.

COMPOUND - S. C. Hillman, J. B. Hegwood

Safety

The Compound Department had two first aid cases during the month. A Compounder received a laceration to his third finger on his left hand while turning a mill knife and a Utility employee complained of something in his right eye while boxing on Line III.

General

Orders for Line I, Line III, and Line V were strong during the month. Production was down 500M pounds from last month. This was due to February being a short production month. Orders should continue to be strong for the remainder of this quarter.

<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	28	1730	62	8195
Line III	28	3472	124	18051
Line V	24	925	39	5203
Total		6127	225	31449
% Prime		97.26		97.42
Capacity Utilization Factor		78.10		82.70

Downtime Hours

Line I

- Product Changes	69
- Miscellaneous Maintenance	53
- Quality	11

Line III

- Product Changes	74
- Miscellaneous Maintenance	24
- Quality	8

Line V

- Product Changes	39
- Miscellaneous Maintenance	23
- Quality	12

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	28	1527	55	8127
% Prime		79.23		82.10
Capacity Utilization Factor		81.12		85.08

COMPOUND - Continued

Key Maintenance Items - J. B. Autrey/S. A. Truitt

- The agitator seal on R-1 reactor in plasticizer was repaired.
- Line V Orbitran failed. The problem was traced to defective boards which were sent out for repair.

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ENGINEERING - J. E. Nickerson, T. R. Mackay, R. H. Sneed

PROJECTS IN DEVELOPMENT - GENERAL

EXPRESS Dryer

Evaluation of alternatives is nearly complete on the technology of choice for the EXPRESS dryer. The UDHE cyclone dryer is preferred due to quality, energy efficiency, and ease of operation. An economic evaluation will be completed after dryer costs have been better defined.

Increased Batch Sizes

The water to monomer ratio on all reactors is being optimized to produce more resin. All low mole recipe water to VCM ratios have been increased to 1.3 on a pounds basis, with the Old Module high mole resins changed to 1.2 water to monomer. The New Module high mole resins are at 1.25 with testing continuing at 1.2 on reactor D-743. The batch size has also been increased in the Old Module small reactors increasing the charge level by a total of 1 inch. The batch size increase has not caused foaming problems. This first phase of increased batch sizes and improved water to monomer ratio will increase capacity of the reactors by 14MM pounds per year.

D-700 Agitator Blades

The new agitator blades were installed in reactor D-700. The reactor started up with no offgrade material. The blades are identical to those installed in D-745 and will improve hard particles in 5385 resin upgrading it to Type I. This added flexibility will result in approximately 700M pounds additional production annually.

OSHA Process Safety

P&IDs - initial layouts and process flow drawings are complete for the VCM storage and unloading facility and are 30% complete for the Old Module. PAI (the drafting contractor) will complete layout drawings of the Old Module, New Module and SA Module by March 12. Progress is steady and we are on target (July 1, 1993) for completion of CAD and P&IDs for the Old Module and VCM storage and unloading facility.

Operating Procedures

Operating procedure writing is progressing on schedule. Procedures for the Old Module and VCM storage and unloading facilities will be complete by July 1.

Process Safety Information

Work has begun on compiling equipment specification sheets for compliance with OSHA Process Safety information. Work on equipment specifications includes documenting safe operating limits and documenting all relief systems including calculations for all relief valves.

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ENGINEERING - Continued

New Boiler

Equipment and piping modifications of the chemical feed system continues. Boiler approval drawings from Nebraska are scheduled to arrive in March. A final Class "A" design for boiler installation will be issued in March. Work has begun on operating procedures for the chemical feed system.

Wastewater - Pond 3 Aeration

Water samples after installation of new equipment showed no significant increase in COD removal or increase in dissolved oxygen. We believe this is due to the sludge that was on the bottom of the pond being mixed up and adding extra loading to the pond. Eventually this sludge will bio-degrade and the oxygen levels in the pond should then increase.

Cooling Tower Chemical Addition

Plant review of the project is complete.

Low Hole Automated Valves

The Process Hazards Analysis Study and the written operating procedures are complete. Materials are on site and the project is waiting on DCS programming and field construction.

New Module Hot Water Charge Pumps

A project scope meeting was held and several options were discussed. The immediate plan is to remove the restriction Orifice plates and install larger impellers in both existing pumps, if feasible. The long term solution involves upgrading existing pumps to speed up charge and have independent rinse and charge pumps. A preliminary design has begun.

Old Module Seal Oil System Replacement Project

The process design work for this project is just beginning. This project will replace the seal oil system in the Old Module with one similar to the New Module. An oil reconditioning unit is being considered to help maintain clean, dry oil in the system.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
FEBRUARY REPORT
3/16/93

1993 F.Y. CAPITAL EXPENDITURES (M\$)

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u>	
			<u>M\$</u>	<u>%</u>
Month	141.3	254.0	- 112.7	-44.3%
2nd Qtr.	321.3	775.0	- 453.7	-58.5%
YTD	875.8	3435.0	-2559.2	-74.5%

Actual Expenditures - Expenditures in February were \$112.7 M lower than the plant's budgeted expenditure forecast approved in the Second Quarter Budget submitted in December FY93. Delays encountered on two projects account for 70% of the underrun.

It should be noted that the above data is based on a 4 Quarter fiscal year as approved in the 2nd Quarter FY 93 Capital Budget.

Quarter Budget - Current Quarter Expenditure Forecast as submitted and approved for the current quarter capital budget.

YTD Budget - Total of current and previous quarter approved budgets.

Forecasted Expenditures - Total Expenditures for the Second Quarter FY93 are forecasted at \$775 M while March expenditures are forecasted at \$383 M.

ENVIRONMENTAL - K. G. Akins

Water

One NPDES permit violation occurred during the month. The monthly average for the amount of ammonia discharged per day was 14.2 lbs./day. The permit limit is 12.3 lbs./day.

Our NPDES permit modification was approved at the permit board meeting on February 23. The permit modification will allow higher discharges of BOD and set seasonal limits. The new limits were based on past performance.

VCM Plume

Samples were taken to vertically delineate the groundwater contamination in early March. A complete presentation to the State on the findings should be ready by late March or early April.

Waste

Waste shipments during the month included:

- A bulk shipment of floor sweepings to Chemical Waste Management in Emelle, AL.

ENERGY CONSERVATION – J. A. Bodron

February 1993

Fiscal Y.T.D.

I. Energy Conservation Data

A. Unadjusted EUI	(15.9%)	(13.4%)
B. Adjusted EUI	(16.0%)	(13.1%)
C. Btu/Lb. Product	3049.8	2997.0
D. Total Energy Consumption MMM Btu	132.0	703.8

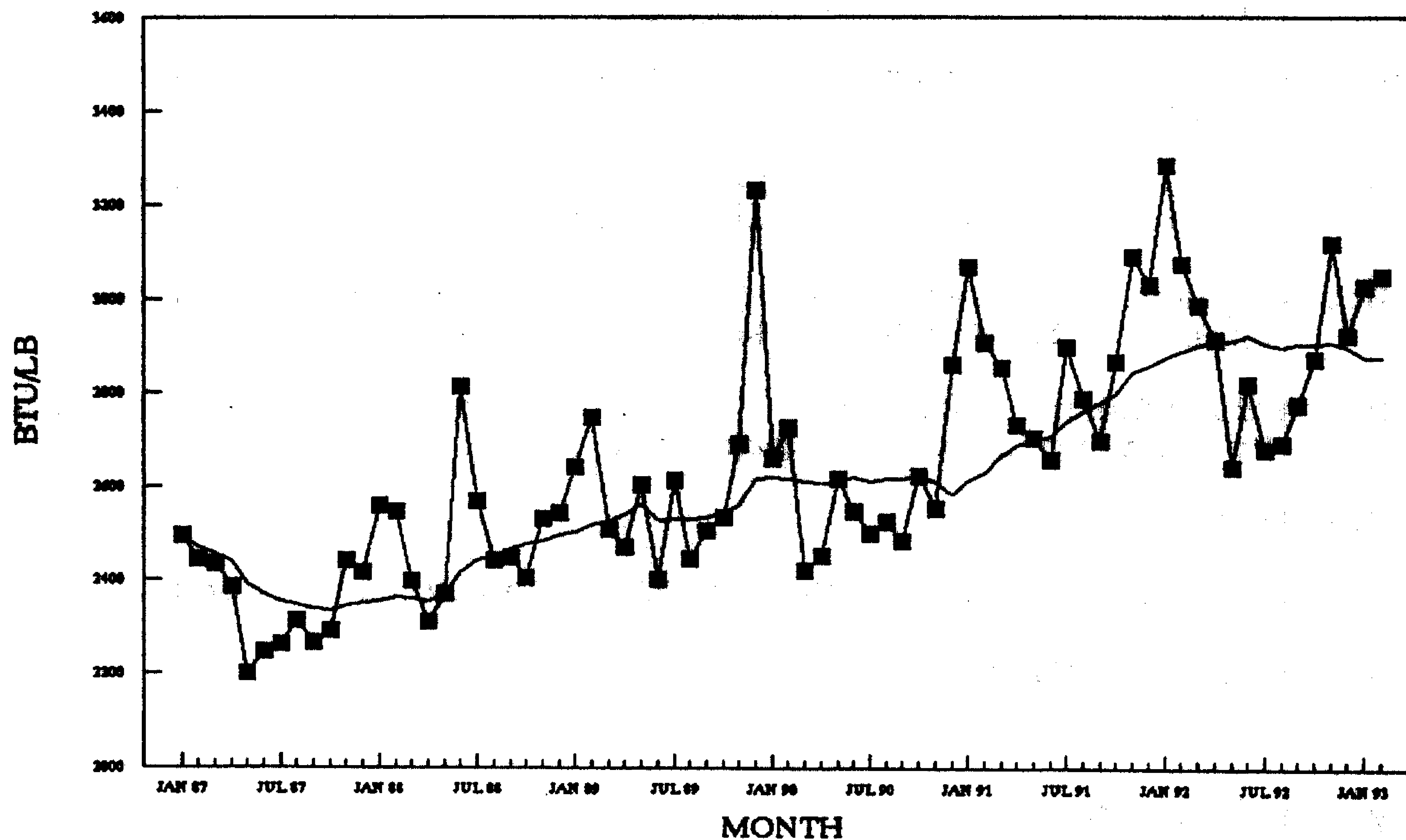
II. Boiler Operation

Combustion Efficiency %
February 1993 Fiscal Y.T.D.

<u>Boiler</u>		
No. 1	82.7%	83.0%
No. 2	82.3%	82.8%
No. 3	82.0%	82.5%

ABERDEEN ENERGY EFFICIENCY

BTU/LB TOTAL PRODUCTION



HUMAN RESOURCE REPORT

FEBRUARY, 1993

PERSONNEL - J. E. Beall

EMPLOYMENT

None.

PROMOTIONS/TRANSFERS

Steven Carroll - Process Engineer - Assigned to Operations Engineer in the Vinyl Department.

Doug Knittig - Operations Engineer - Assigned to Process Engineering position in the Engineering Department.

Doug Skokna - Plant Superintendent - Transferred to Houston, Texas as Chief Consulting Engineer, Olins & Vinyl Division.

Willie White - Compound Operator - Progressed from Compound Operator to Compounder.

Reginald Evans - Compound Operator - Progressed from Compound Operator to Compounder.

Charles Reed - Compounder - Bid from Compounder to Plasticizer Operator.

Willie Wilson - Compounder - Bid from Compounder to Painter/Insulator Carpenter "B".

Bobby Adams - Plasticizer Operator - Bid from Plasticizer Operator to Warehouse Worker "B".

Mitchell Bishop - Compound Utility - Promoted from Compound Utility to Compound Operator.

RETIREMENTS

Joe Trimble - Warehouse Worker "A" - Early Retirement.

TERMINATIONS/RESIGNATIONS

None.

TO/FROM LEAVE OF ABSENCE

R. Danny Flippo - Vinyl Department - Union Leave of Absence.

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ABERDEEN PLANT
MONTHLY PERSONNEL REPORT
FEBRUARY, 1993

EMPLOYMENT		NEW HIRES		MO	FYD
Salaried	77	Salaried/Transfer	0	0	3
Hourly	143	Hourly	0	0	0
Temporary	3	Temporary	0	0	0
SUB TOTAL	223	TOTAL	0	0	3
L.O.A.	1				
TOTAL	224				

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						NO.	FYD	
WAREHOUSE	13	6	0	46.2%	0	1	3	9.6%
GENERAL PLANT	10	5	0	5.0%	0	3	3	12.5%
MAINTENANCE	35	8	0	25.9%	0	0	1	1.2%
LABORATORY	18	3	1	16.7%	5.6%	0	4	9.3%
COMPOUND	31	22	1	71.0%	3.2%	0	8	10.8%
VINYL	30	10	2	33.3%	6.6%	0	1	1.4%
PLASTICIZER	5	3	0	60.0%	0	1	1	8.3%
SUB TOTAL	143	57	4	39.9%	2.8%			
SALARIED	77	6	18	7.8%	23.4%			

APPLICATIONS	No.	%	PLANT TURNOVER	No	%
Month	0	0	Hourly Month	1	.7%
FYD	0	0	FYD	12	8.4%
Minority	0	0	Salaried Month	1	1.9%
Female	0	0	FYD	3	3.9%

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3/02/93

DEPARTMENTAL SUMMARY HOURS REPORT
----- YEAR TO DATE -----

Department	Total S/T Hr	Total Hour	Overtime % of S/T	Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence % of S/T	Jury Duty	Paid National Guard	Absences Death in Family	Long-term Disability	Total Abs % of S/T	Vacation
YARD	2622.50	171.75	6.55	0.00	0.00	5.50	.21	0.00	0.00	0.00	12.00	.67	108
GENERAL HELPERS	152.00	26.25	17.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILITY	1592.00	69.50	4.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108
MAINTENANCE	8963.50	1139.00	12.71	0.00	0.00	49.50	.55	0.00	0.00	0.00	256.00	3.41	720
QC LAB	3924.00	290.50	7.40	0.00	0.00	24.00	.61	12.00	0.00	0.00	0.00	.92	180
JANITORS	360.00	5.50	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
WAREHOUSE	1496.50	151.75	10.14	0.00	0.00	1.50	.10	0.00	0.00	0.00	0.00	.10	72
STORES	616.00	9.25	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104
DEVELOPMENT LAB	1567.50	91.25	5.82	0.00	0.00	.50	.03	16.00	0.00	0.00	0.00	1.05	32
COMPOUND	10562.75	1160.25	10.98	0.00	0.00	138.25	1.31	16.00	0.00	60.00	228.00	4.19	808
VINYL	10654.50	1024.75	9.62	0.00	0.00	88.00	.83	0.00	0.00	0.00	0.00	.83	828
PLASTICIZER	1589.00	147.75	9.30	0.00	0.00	39.00	2.45	0.00	0.00	12.00	0.00	3.21	108
Total Plant =====>	44100.25	4287.50	9.72	0.00	0.00	346.25	.79	44.00	0.00	72.00	496.00	2.17	3068

Pay Period ending February 28, 1993

01/03/93 - 2/28/93

Printed
3/02/93

DEPARTMENTAL SUMMARY HOURS REPORT
----- MONTHLY -----

Department	Total S/T Hr	Total Hour	Overtime % of S/T	Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence % of S/T	Jury Duty	Paid National Guard	Absences Death in Family	Long-term Disability	Total Abs % of S/T	Vacation
YARD	1248.00	129.25	10.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00	.96	72
GENERAL HELPERS	152.00	26.25	17.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILTIY	724.00	66.00	9.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108
MAINTENANCE	4435.00	456.50	10.29	0.00	0.00	29.00	.65	0.00	0.00	0.00	88.00	2.64	328
QC LAB	1836.00	242.50	13.21	0.00	0.00	24.00	1.31	12.00	0.00	0.00	0.00	1.96	144
JANITORS	160.00	5.50	3.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
WAREHOUSE	751.75	70.50	9.38	0.00	0.00	.25	.03	0.00	0.00	0.00	0.00	.03	8
STORES	344.00	4.25	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56
DEVELOPMENT LAB	783.50	44.25	5.65	0.00	0.00	.50	.06	0.00	0.00	0.00	0.00	.06	16
COMPOUND	5125.25	689.00	13.44	0.00	0.00	63.75	1.24	0.00	0.00	24.00	0.00	1.71	492
VINYL	5200.75	523.75	10.07	0.00	0.00	51.25	.99	0.00	0.00	0.00	0.00	.99	396
PLASTICIZER	811.00	77.75	9.59	0.00	0.00	5.00	.62	0.00	0.00	0.00	0.00	.62	84
Total Plant =====>	21571.25	2335.50	10.83	0.00	0.00	173.75	.81	12.00	0.00	24.00	100.00	1.44	1704

Pay Period ending February 28, 1993

ACCOUNTING - T. L. Cummings**Safety**

There were no reportable safety instances this month.

Quality

The Accounting Natural Team met three times in February. The team updated its mission statement, customers and suppliers. Joyce Frederick held a safety meeting on tornadoes.

Statistics**Invoices Processed**

	<u>Month</u>	<u>YTD</u>
07-005	250	1181
07-006	147	827
AFE/MRO	657	2811

Discounts

07-005	\$310	\$3122
AFE/MRO	\$693	\$3466
LTL	\$15,557	\$55,591

Working Fund Checks

	11	19
--	----	----

PURCHASING/WAREHOUSE - M. A. Swierc

Safety

There were no reportable safety instances this month.

Quality

All teams met in February to review progress on their projects.

Statistics

<u>Processed</u>	<u>Month</u>	<u>FY93</u> <u>Y.T.D.</u>
Cost Savings Through Bid Process	\$2,767.86	\$35,714.71
MRO/APE Purchase Orders Processed	192	898
Spare Parts Purchase Orders Issued	187	890

	<u>Jan... '93</u>	<u>Feb... '93</u>	<u>(Decrease)</u> <u>Increase</u>
Spare Parts Ending Inventory	\$2,013,713	\$2,016,458	\$ 2,745
Raw Materials Ending Inventory	\$2,529,091	\$2,268,757	<\$260,334>

Packaged Finished Goods Ending Inventory

	<u>Jan. '93</u>	<u>Feb... '93</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	5,082,832	5,051,857	< 30,975>	< 0.61>
PLENEX "A" Grade	197,381	242,379	44,998	22.80
Vynaprene	51,532	47,535	< 3,997>	< 7.76>
Compound Off-Grade (BC)	591,096	648,317*	57,221	9.68
Compound Off-Grade (H)	130,682	108,425**	< 22,257>	< 17.03>
Millscrap	104,508	96,115	< 8,393>	< 8.03>
Dry Blend "A" Grade	253,598	197,698	< 55,900>	< 22.04>
Dry Blend Offgrade	12,000	0	< 12,000>	<100.00>
Resin Type I	1,844,900	1,623,650	<221,250>	< 11.99>
Resin Type "BC"	100	100	0	0
Vacuum Dust	<u>146,402</u>	<u>153,316</u>	<u>6,914</u>	<u>4.72</u>
Total Packaged W/house	8,415,031	8,169,392	<245,639>	< 2.92>

Bulk Finished Goods Ending Inventory

	<u>Jan... '93</u>	<u>Feb... '93</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	3,228,521	1,407,277	<1,821,244>	<56.41>
Rigid "A" Grade	172,700	172,700	0	0.00
Resin Type I	16,174,446	20,128,904	3,954,458	24.45
Resin Offgrade	<u>914,249</u>	<u>1,416,299</u>	<u>502,050</u>	<u>54.91</u>
Total	20,489,916	23,125,180	2,635,264	12.86

* Includes PLENEX (BC)

** Includes PLENEX (H)

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
FEBRUARY 1993

03:11 PM
11-Mar-93

-SHIPMENTS BY PRODUCTS-	TOTAL MONTH	YTD
	SHIPMENTS	SHIPMENTS
RESIN-BULK	26,424,430	162,768,020
RESIN-PACKAGED	528,280	3,677,221
FLEXIBLE COMPOUND-BULK	3,577,690	12,841,156
FLEXIBLE COMPOUND-PACKAGED	3,538,270	15,122,181
NEW BUSINESS	5,247	48,566
VYNAPRENE	3,982	19,432
RIGID COMPOUND-BULK	0	491,230
RIGID COMPOUND-PACKAGED	55,900	604,734
RIGID COMPOUND-PELLETS	0	0
AUTOMOTIVE - BULK	719,850	2,540,870
AUTOMOTIVE - PACKAGED	135,445	492,848
PLASTICIZER	519,650	2,974,652
TOTAL	35,508,744	201,580,910

-SHIPMENTS BY MODE- BULK:	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
FEBRUARY				
RESIN	143	17	27	167
FLEXIBLE COMPOUND	22	0	8	30
RIGID COMPOUND	0	0	0	0
PLASTICIZER	3	0	0	3
TOTAL FEBRUARY	168	17	35	220
YTD				
RESIN	877	60	123	1,060
FLEXIBLE COMPOUND	76	0	43	119
RIGID COMPOUND	1	0	8	9
PLASTICIZER	17	0	4	21
TOTAL YTD	971	60	178	1,209

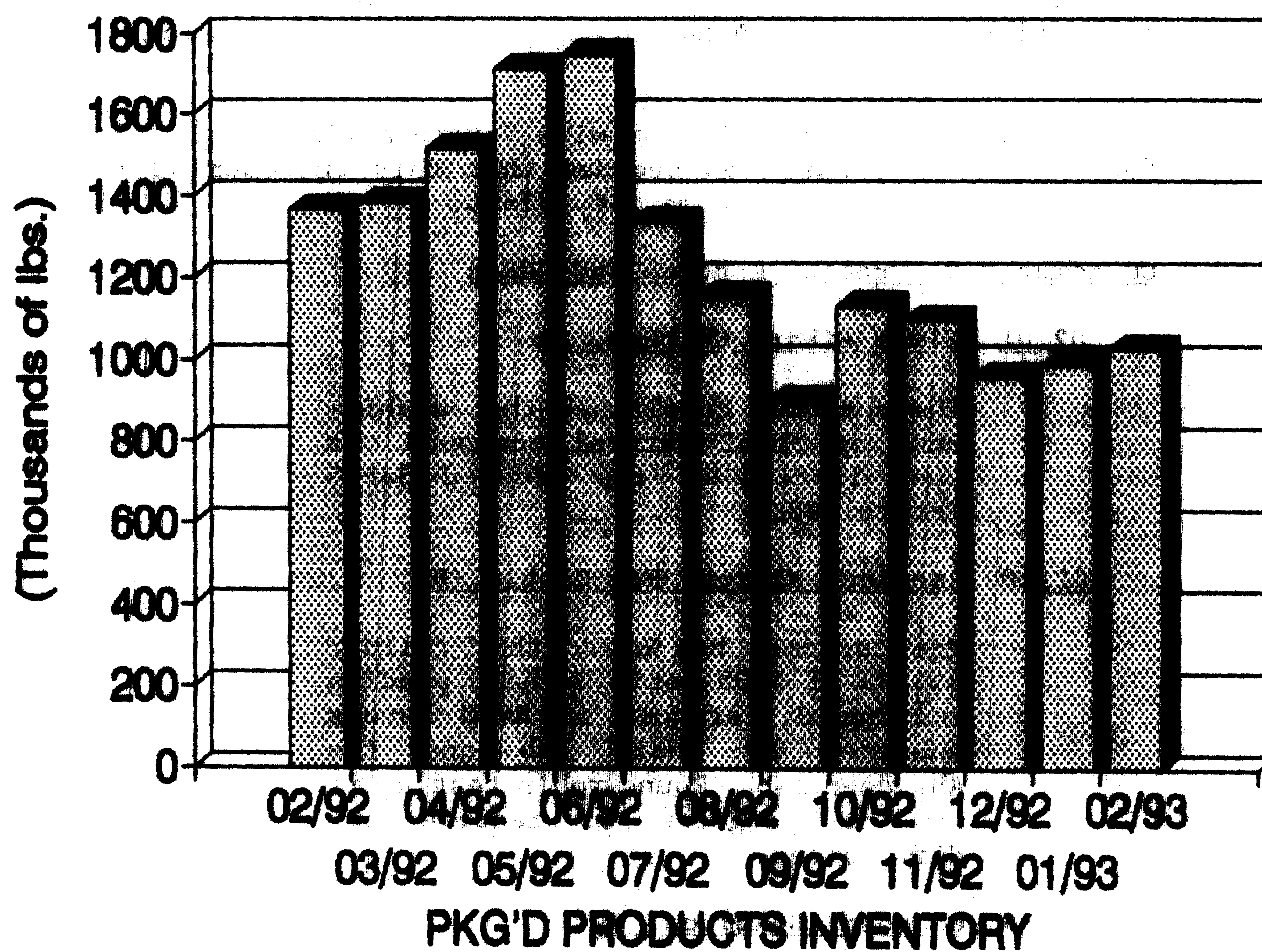
PACKAGED:	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
FEBRUARY						
RESIN	1	17	0	0	0	18
FLEXIBLE COMPOUND	14	113	0	0	1	128
RIGID COMPOUND	0	1	0	0	0	1
PLASTICIZER	0	0	0	0	0	0
TOTAL FEBRUARY	15	131	0	0	1	147
YTD						
RESIN	13	119	0	0	4	136
FLEXIBLE COMPOUND	65	477	0	0	8	550
RIGID COMPOUND	7	12	0	0	0	19
PLASTICIZER	0	3	0	0	0	3
TOTAL YTD	85	611	0	0	12	708

CC: TLC,MAS,AEV,JRF

VAB.0001188700

FLEXIBLE & RIGID OFF-GRADE

FEBRUARY '92 THRU FEBRUARY '93



LABORATORY - J. M. Edwards, J. R. Williams

A. Safety

There was one safety incident in the Laboratory during February. A Development Technician had a first aid injury occur while packing down trash at the garbage compactor. He suffered a small laceration to his left thumb.

B. Customer Contacts

Representatives from Armor Bond Corporation visited the plant along with Nick Forsa to tour and discuss technical issues.

John Derossi and Thomas Saloom with Variform visited the plant for a tour. It has been decided that this customer will be supplied out of the Oklahoma City Plant.

C. Customer O.C. Problem Reports and CRR's

02/01 Times Fiber, Chatham, VA

The customer complained that a shipment of 3852 Natural compound was sent instead of the ordered 38525 Natural 02.

02/10 American Mirror, New Castle, DE

The customer has asked that railcar #46535 of 5305 resin be held pending solving differences in RVGM levels analyzed by their lab and the Aberdeen lab. Sound robin testing is now in progress to resolve our differences.

02/18 Gencorp, Columbia, MS

The customer complained of flakes and dark, small particles on top of a railcar compartment of 5385 resin.

02/22 Times Fiber Canada, Ontario, Canada

The customer complained of color problems with six boxes of 38525 Clay 20 made at the Mansfield Plant.

LABORATORY - Continued

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Times Fiber	38525 BLK	Dicing	1 R/C

E. 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 February, 1993.

	<u>Reactor Slurries</u>	<u>Dryer</u>	
		<u>5265</u>	<u>5305</u>
Number of Samples	829	33	65
Average RVCM, ppm	64	0.290	0.421

F. RVCM of Shipment Samples

The following is a summary of the residual VCM analysis of shipment samples for the month of February, 1993.

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5225	1	0.022
5265	65	0.140
5305	119	0.186
5325	16	0.666
5385	50	0.200
5395	9	0.012
5415	77	0.040
5416	11	0.016
5465	0	0
Debox	20	0.298
Pond	4	0.753

G. Flexible Compound Quality Summary

	<u>Adjustments</u>	<u>Rejections</u>
	<u>M Lbs.</u>	<u>M Lbs. (3)</u>
Hardness	143.5 <2.31>	9.0 <0.14>
Color	144.0 <2.32>	64.7 <1.04>
Hard Particles	-----	18.3 <0.29>
Heat Stability	-----	7.5 <0.12>
Cross Contamination	-----	6.4 <0.10>
Totals	287.5 <4.63>	105.9 <1.71>

February 1993

Resin Process Capabilities (based on dryer "regulars")

	5225	5265	5305	5325	5385	5395	5415	5416
Bulk Density	1.36	1.42	1.72	2.42	1.69	0.35	0.78	0.33
Inherent Viscosity (vs. 0.64 -0.67) (vs. 0.715-0.744)	0.04	0.83 0.24	0.90 0.90		1.47	0.43	0.71	0.4
"L" Color	0.81	7.33	4.11	23.67	5.67	2.92	3.08	6.33
"a" Color	1.33	7.67	4.17	11.9				
"b" Color	2.17	2.83	6.00	6.33	4.00	2.17	2.67	5
% on Pan (vs. 2% max.)	3.08	3.08	2.47	14.33	3.89	1.07	4.00 0.67	3.78
% thru 140	1.15	0.74	0.46	NA	1.41	0.45	3.64	0.54
Hard Particles, Average 5 minutes 7 minutes					18 4	15 5	5 2	4 2
METS IR (vs. 95% of Control)							3.78 2.07	1.48 0.61
Average Particle Size, Microns	147	139	137	143	168	145	171	133

A



SAMPLE ORDER LOG

FEBRUARY, 1993 - COMPOUND

SHIP DATE	PRODUCT	LOT NO.	LBS.	CUSTOMER/LOCATION		SHIP VIA
2/2	VACUUM DUST	----	1	VERGO MARONA	LEOMINSTER, MA	UPS
2/2	VENT DUST	----	1	VERGO MARONA	LEOMINSTER, MA	UPS
2/15	34311 NAT	13C15	200	TANDY W & C	FT. WORTH, TX	LTL
2/17	35451 NAT	12A09	150	SOUTHWIRE CO.	CARROLLTON, GA	UPS