

File Copy

To: T. H. Huffman

From: D. C. Skokna
Date: June 23, 1992

Subject: ABERDEEN MONTHLY PROGRESS REPORT
May, 1992

Interoffice
Communication

VISTA

Safety

There were three first aid cases reported during May. At month end, the plant's employees had worked 4714 days (6,319,522 employee hours) since the last lost time injury.

<u>FY1992 Key Statistical Information</u>	<u>May</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	42.4	292.0
Reactor Stream Factor, %	93.5	84.7
Resin Quality, % Prime	98.1	96.9
VCM Efficiency, Lbs./Lb.	1.0005	1.0329
Flexible Compound Production, MM Lbs.	5.6	41.5
Flexible Compound Quality, % Prime	95.3	96.3
Rigid Compound Production, MM Lbs.	1.4	16.3
Rigid Compound Quality, % Prime	98.9	97.8
Plasticizer Production, MM Lbs.	1.4	11.5
Plasticizer Quality, % Prime	81.7	79.6
Energy Use, (EUI, %)	1.0	< 14.0>
Fixed Cost Variance, \$M	72.0	< 359.6>
Variable Cost Efficiency Variance, \$M	225.0	< 431.1>

Operations

Resin production was good during the month. Changes to optimize operation of the fluid bed dryer were implemented.

Flexible compound production schedules were tight on Lines I and III. Rigid compound production was cut back to two shifts.

QMP

Flexible Technology (a flexible compound customer) audited the plant versus Ford's Q-1 standard. We scored 135/200. Flexible Technology has a minimum target score of 120.

Environmental

The semi-annual bioassay wastewater test performed during April showed low reproduction rates in the test organism (ceriodaphnia dubia). A followup test did not indicate any problems.

T. H. Huffman

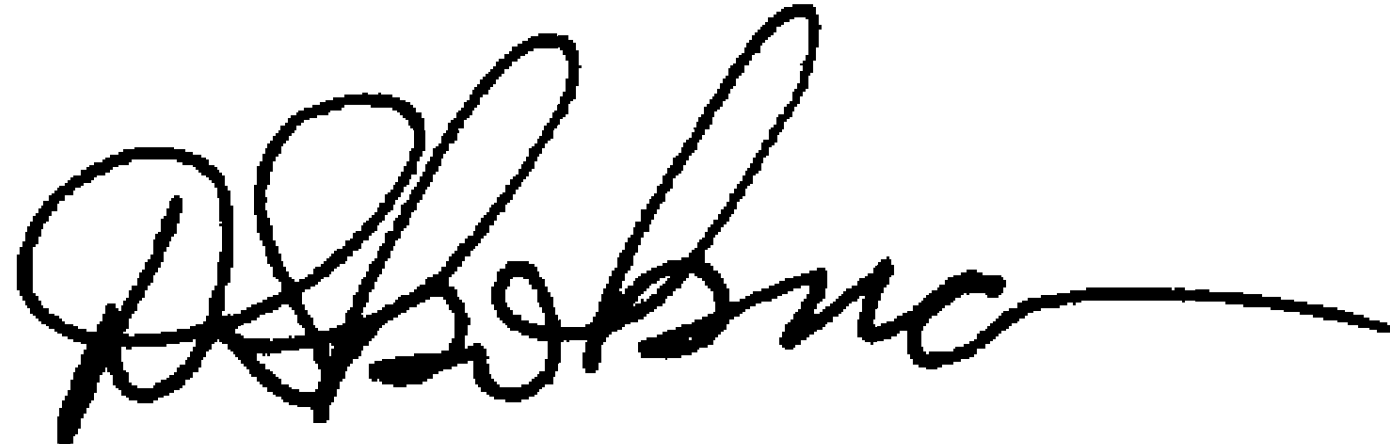
06/23/92

Aberdeen Monthly Progress Report - May, 1992

Page 2

Environmental - Continued

Reclamation of Pond 2 continued with no major operational problems. Royal Plastics received the first railcar of recovered resin.



D. C. Skokna
Plant Superintendent

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SAFETY - B. L. Trego

	<u>May</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>
First Aid	3	12	10
OSHA Recordable	<u>0</u>	<u>3</u>	<u>6</u>
Total Injuries	3	15	16
Number of Restricted Workday Cases	0	2	4
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	1	4	2
Compound Operations	1	4	5
Maintenance	1	7	7
Laboratory	0	0	0
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>0</u>	<u>2</u>
Totals	3	15	16

Injuries by Type

Cuts and Abrasions	1	7	3
Eye Injuries	0	0	1
Burns	2	4	3
Bruises	0	0	3
Strains/Sprains	0	3	3
Stings	0	1	0
Other	<u>0</u>	<u>0</u>	<u>3</u>
Totals	3	15	16

Non-Occupational Injuries

Lost Workday Cases	0	6	6
Days Lost	0	41	127

Contractor Injuries

First Aid Cases	0	3	4
Medical Treatment Cases	0	0	1
Lost Workday Cases	0	0	1

Safety Record

Last lost time injury - 7/5/79
Days since - 4,714
Employee hours since - 6,319,522

On May 31, 1992, the employees of the Aberdeen plant completed 4,714 days with no lost time injury.

SAFETY - Continued

Topics for plant safety meetings during the month included: Mill Roll Safety, Reviews of Recent Injuries, Hazard Communication, Substance Abuse, and OSHA Reporting Requirements.

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	42	97.7	1	2.3
Lead	9	90.0	1	10.0
Total Particulates	3	100.0	0	0

Both overexposures were with benefit of respiratory protection.

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Vinyl	First degree burn of thumb, "index finger", "middle" finger, and "ring" finger of right hand.
FA	Compound	Abrasion of "middle" and "ring" fingers of right hand.
FA	Maintenance	Burn of left foot.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All of the plant's natural teams continue to meet on a regular basis with a number of team projects nearing completion.

The Plant Manager's Natural Team has begun work on the Synergy Team's recommendations for removing barriers to QMP. Four of the items requiring action from top management have been forwarded for consideration.

Flexible Technologies conducted a quality audit of the Aberdeen Plant on May 28. The standard used was Ford Q1. Vista scored 135 out of a possible 200 points. Flexible Technologies has a minimum target score of 120 for their suppliers and a goal of 150.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>May.. 1992 Variance. \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	\$195.7	\$387.7	\$583.4
Flexible Compound	15.4	< 12.6>	2.8
Rigid Compound	< 5.3>	< 37.5>	< 42.8>
Plasticizer	<u>19.2</u>	<u>14.3</u>	<u>33.5</u>
Total	\$225.0	\$351.9	\$576.9

PVC

A prior accounting problem was corrected.

Flexible Compound

Operations were essentially at budget.

Rigid Compound

Operations were essentially at budget.

Plasticizer

Raw material use was below budget.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	\$332.9
■ Debox and Pond Resin Credit	44.7
■ Electricity	20.9
■ Phthalic Anhydride	10.1
■ Natural Gas	< 18.5>
■ Plasticizers	< 29.6>
■ TiO ₂	< 32.6>
■ Other Price Variances	<u>24.1</u>
Total	\$352.0

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	\$ 22.2
■ MM&C	47.5
■ Miscellaneous	< 23.1>
■ TI&D	1.2
■ Clearances	<u>24.2</u>
Total	\$ 72.0

COST VARIANCES - Continued

Payroll & Benefits

Overtime was near normal and hourly headcount was below budget for the month. Also, \$5.7M was expended for the Pond 2 cleanup and was charged to Conoco.

MM&C

Activity was below budgeted levels.

Miscellaneous

Costs associated with the cleanup of Pond 2 totaled \$20.7M in this category. This was credited in the "clearance" category.

Clearances

Credit, from Conoco, for costs associated with the Pond 2 cleanup caused the favorable variance.

VINYL - J. D. Olson, D. E. Knittig**Safety**

The Vinyl Department had one first aid case during May. A Dryer Operator burned his fingers on a rotary dryer. The dryer inlet has been reinsulated.

The monthly safety meeting was "Electrical Hazards Survey".

General

1. Fluid bed dryer process changes have been implemented to improve contamination performance of the dryer. Discussions with Niro, the fluid bed manufacturer, indicate we are making the necessary changes to improve performance.
2. Witco calcium stearate is being reevaluated due to poor flow qualities. Poor flow properties cause problems in our injection systems. Samples have been sent to Witco for testing.

	<u>May</u>	<u>YTD</u>
- Production, MM Lbs.	42.4	292.0
- Daily Rate, M Lbs./C.D.	1367.8	1196.7
- Capacity Utilization Factor, %	103.2	90.3
- Total Reactor Charges	976.0	6960.0
- Charges/C.D.	31.5	28.5
- Reactor Stream Factor, %	93.5	84.7
- Rotary Dryer Stream Factor (#4-#8), %	96.5	90.9
- Fluid Bed Dryer Stream Factor, %	94.8	88.9
- Resin Quality, % Prime	98.1	96.9

Reactor Downtime

	<u>Hours</u>
■ Operational downtime (recovery scheduling conflicts, charge/rinse water conflicts, Q.C. data delays, dump conflicts, and no blend tank space).	418.0
■ Maintenance downtime (TVA Power switching, D-743 baffle repair, D-400 sealn replacement, D-600 pressure transmitter, and D-400 gearbox slurry valve).	66.0

VINYL - Continued

<u>Dryer Time</u>	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	69.2
■ Maintenance downtime (activator problems, centrifuge repair).	26.1
■ Reactor limited production.	4.7

Key Maintenance Items In Vinyl

- Reactor 400 seal and oil circulator pumps were changed. The seal failure was caused by an oil pump failure.
- The high pressure service water pump was rebuilt due to normal wear.
- Replacement plans are in progress to repair the baffle that broke in reactor 743.
- The Bird torque tests were performed on all V-11 dryer Birds.
- The quarterly PM program was completed on the west incinerator.
- A new relief valve was installed on the discharge line of #6 compressor.
- The load test was performed on #2 boiler. The water controls were checked and adjusted as needed. During the load test, the #1 and #2 water valves were determine to be undersized.
- A fifth utility man began duties 5/18/92.

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

The Compound Department had no OSHA recordable injuries in May.

General

Orders continue to be tight on Line I and Line III. Dryblend production has been cut back to two shifts.

<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	1703	55	12366
Line III	31	3455	111	25873
Line V	16	490	31	3304
Total		5648	182	41543
% Prime		95.27		96.34
Capacity Utilization Factor		74.90		66.60

Downtime**Hours****Line I**

- Product Changes	121
- One Dicer Offline	25
- Miscellaneous Maintenance	13
- Quality	6

Line III

- Product Changes	93
- Miscellaneous Maintenance	37
- Quality	3

Line V

- Product Changes	33
- Quality	1
- Miscellaneous Maintenance	37
- Coverage for Other Lines	33

COMPOUND - Continued

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Rigid Compound	18	1449	81	16264
% Prime		98.86		97.81
Capacity Utilization Factor		28.10		39.20

Downtime

Hours

- Product Changes	58
- Miscellaneous Maintenance	14
- Quality	39
- Coverage for Other Lines	10

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	30	1425	48	11497
% Prime		81.68		79.58
Capacity Utilization Factor		59.80		58.42

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

- Regular PM on #1 dicer was completed.
- Line I "B" blender motor was replaced due to bad windings.

A

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

PROJECTS IN DEVELOPMENT - GENERAL

Water Plant

Construction is proceeding and startup is scheduled for the middle to end of July.

Debottlenecking - Dryers

A new air line was connected to dryer #8 activator to improve compressed air flow rates, eliminate flow restrictions and make higher resin transfer rates possible. Centrifuge torque evaluation data has been compiled. The Bird Company will study the data and make recommendations.

Resin buildup and burning are causing a problem with the fluid bed dryer. Niro, the fluid bed vendor, has been contacted for advice.

Improvements in the plant wet air system are being evaluated in order to improve compressed air supply to activators.

Semi-Bulk Lead

A third supersack of lead stabilizer was successfully run on the Line III semi-bulk lead system.

OSHA Process Safety

A meeting presented by OSHA was attended in Houston. In this meeting, OSHA stressed their expectations that industry make a "good faith effort" to comply with the regulation. OSHA defined a "good faith effort" as having as many process safety documents generated and implemented as possible by the May 26, 1992 deadline.

Also, Reed Mackay, Rodger Collins and Steve Carroll attended an Operating Procedure Writing Class in Lake Charles. This class was presented by the personnel at LCCP and detailed their efforts toward compliance of the operating procedures element of OSHA Process Safety.

Steam Survey

A model was developed to calculate plant total steam demand from the state of valves and meters in steam service. Historical data from the unit was then fit to steam flow rates recorded at the boilers to determine flow rates of steam through each piece of equipment. From this, peak and average steam demand for each process area was determined.

ENGINEERING - Continued

Wastewater

Work on the plant wastewater system is proceeding in three areas: aeration in Pond 3, algae removal in ponds 5 and/or 6, and chemical oxidation for BOD reduction. Work has begun on an aeration design for Pond 3. Information on algae eating fish has been obtained. A fish study is targeted for July. Oxidation information is being sent to us and some water samples have been mailed out to Carruss Chemical Company for oxidation tests.

Staffing

Two new process engineers started June 1. Kelly Wood and Michael Harvey are both graduates of the University of Arkansas.

Plasticizer Expansion

Design reviews with project engineering and operations have led to re-evaluation of column/condenser pressure control schemes. Alternatives to the original design were suggested and evaluated. Re-design of the condenser will be completed in early June. Specifications on all major equipment, except the condenser and decanter, are with vendors for confirmation and quotes. Class "A" re-issue is planned for mid-June.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
MAY REPORT

1992 F.Y. CAPITAL EXPENDITURES (M\$)

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u>	
			<u>M\$</u>	<u>%</u>
Month	259.7	262.0	- 2.3	- .8%
3rd Qtr.	485.3	791.0	- 305.7	-38.6%
YTD	2603.3	3362.0	- 758.7	-22.5%

Actual Expenditures - Expenditures in May were \$2.3M less than the plant's budgeted expenditure forecast approved in the Third Quarter Budget submitted in March FY92.

Mays FY92 capital expenditures were 0.8% less than the plant's budgeted expenditure forecast. 16 of the 19 projects which are active came within +/- 10% of the forecasted expenditure amounts for May. It should be noted that the capital expenditures associated with project H612 Pond 2 Resin Drying are not accounted for in the reported actual above due to the accounting procedures and contract agreement with Conoco.

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 - The submitted 3rd Quarter Capital Budget calls for expenditures of \$791.0M and June expenditures of \$280.0M.

APPROVED CAPITAL PROJECT STATUS

 ABERDEEN CHEMICAL PLANT

 MONTHLY PROGRESS REPORT

\$M
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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
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ACTIVE PRE-1992 CARRYOVER PROJECTS

A649	VINYL CONTROL SYSTEM MODERNIZATION	ACM	04/92		6400	6600	-200	RENOVATION WORK IS UNDERWAY, TARGETED TO BE COMPLETED MID OF JUNE
C591	DRYBLEND SAMPLE LINE	GSN	02/92		50	49	1	TARGETED FOR FIELD CLOSURE 06-92
D511	VCM UNLOADING MODIFICATIONS	JBH			85	88	-3	MINOR ITEMS REMAIN-TARGETED TO BE IN OPERATION 4TH QTR
D619	PROPANE AREA DELUGE SYSTEM	GSN	09/90	01/91	153	172	-19	SUPPLEMENTAL HAS BEEN SENT TO HOUSTON FOR APPROVAL FIELD CLOSURE WILL BE COMPLETED UPON APPROVAL.
D749	LEAD HANDLING AND EXPOSURE REDUCTION	ACM	04/92		91	89	2	TARGETED FOR FIELD CLOSURE 07-92
D849	COMPOUND L-3 SEMI-BULK LEAD HANDLING	JBH	04/92		145	131	14	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
F551	DRYBLEND SCREENER REPLACEMENT	GSN	04/92		103	102	1	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
F660	5305 DECALCIFIED WATER SYSTEM	JLW	04/92		500	501	-1	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
G561	WASTE WATER INFLUENT EQUALIZATION	GSN	04/92		80	81	-1	MINOR ITEMS REMAIN - TARGETED CLOSURE 7-92

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

\$M
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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
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SUBTOTAL

339 310 29

SECOND FISCAL QUARTER

D552 LINE 111 CONDENSATE RETURN

JLW

28

28

0

MECHANICAL DESIGN IS IN PROGRESS

D562 P-1 EJECTOR RELOCATION

ACW

40

40

0

MECHANICAL DESIGN WILL BE COMPLETED IN JUNE TARGETED TO BE IN FIELD CONSTRUCTION IN JULY

F572 DECALCIFIED POLISHING FILTERS

JLW

60

61

-1

TARGETED FOR FIELD CLOSURE IN 7-92

H582 FORK TRUCK REPLACEMENT

MLC

40

40

0

2 NEW FORK TRUCKS HAVE ARRIVED IN THE PLANT TARGETED TO BE PLACED IN OPERATION IN JUNE

G592 FLAME ARRESTOR LID MODIFICATIONS

GSM

32

32

0

MECHANICAL DESIGN IN PROGRESS TARGETED TO BE COMPLETED IN JUNE SOME MATERIAL HAS BEEN PLACED ON ORDER

D602 VCM TRUSS

JBH

04/92

40

48

-8

TARGETED FOR FIELD CLOSURE IN 7-92

SUBTOTAL

240 249 -9

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

\$M
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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	AFE WAS APPROVED IN MAY	STATUS
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THIRD FISCAL QUARTER

C622	FLUID BED STARTUP LINE	GSN			25	25	0	AFE WAS APPROVED IN MAY	
D652	VCM TANK FARM COMPRESSOR UPGRADE	JLM			200	200	0	AFE WAS APPROVED IN MAY	
H632	AGITATOR GEARBOX REPLACEMENT	ACW			65	65	0	AFE WAS APPROVED IN MAY	
H642	HEAD SPACE ANALYZER	WCE			55	55	0	AFE WAS APPROVED IN MAY	
H662	LAB AC IMPROVEMENTS	GSN			150	150	0	AFE WAS APPROVED IN MAY	

495 495 0

TOTAL FISCAL 1992 PROJECTS

1074 1054 20

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GRAND TOTAL - ALL PROJECTS

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15413 15763 -350

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

\$M
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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
F611	PLENEX MOISTURE ANALYZER	JBH	01/92		14	13	1	TARGETED FOR FIELD CLOSURE 06-92
SUBTOTAL PRE-FISCAL 1992 PROJECTS					14339	14709	-370	

FISCAL 1992

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FIRST FISCAL QUARTER

C522	DOLLINGER FILTER REPLACEMENT	GSN	04/92		34	19	15	PUNCH LIST ITEMS REMAIN TARGETED FIELD CLOSURE 7-92
D532	INERT GAS DRYER	GSN			28	28	0	INERT GAS DRYER HAS BEEN INSTALLED AND SAFETY AUDIT COMPLETED, OPERATOR TRAINING IS TARGETED FOR JUNE.
H502	MISCELLANEOUS CAPITAL	MLC			225	225	0	31 PROJECTS APRVD 25 COMPL 6 IN PRGRS 3 IN ESTIMATING 8 PROJECTS ON HOLD
H512	FLUID BED DRYER IMPROVEMENTS	JBH			40	26	14	PROJECT COMPLETE TARGETED OPERATIONAL DATE 6/92
L542	FURNITURE AND FIXTURES	MLC			12	12	0	3 COMPUTERS AND 1 LASER PRINTER AND 2 EPSON PRINTERS SOME FURNITURE AND FIXTURES HAVE BEEN ORDERED

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

\$M

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
6659	NEW DRYER BAGHOUSES	JLM	11/89		1550	1504	46	MINOR PUNCH LIST ITEMS REMAINING - ROTATING THE KNEE FITTINGS ON EACH OF THE BLOWER MOTORS
6839	PLANT WATER RECYCLE	GSN	04/92		165	174	-9	PROJECT IS COMPLETE, VMS ERRORS CORRECTED PROJECT WILL BE CLOSED TO FILED CHARGES IN JUNE
5500	PLANT WATER SYSTEM	JBH			4000	4210	-210	MINOR PUNCH LIST ITEMS IN CONTROL ROOM REMAIN, ALL CONCRETE HAS BEEN POURED, WATER PLANT ELECTRICAL IN PROGRESS, WATER PLANT CONSTR IS 97% COMPLETE STARTUP OPERATING PROCEDURES ARE CURRENTLY BEING EVALUATED.
5510	WEST INCINERATOR REPLACEMENT	JLM	04/92		460	463	-3	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
5581	SPARE LARGE REACTOR AGITATOR MOTOR	ACW			28	28	0	MOTOR IS CURRENTLY BEING REMORKED, TARGETED TO BE COMPLETE AND BACK IN THE PLANT 7/92
6601	GAS CHROMATOGRAPH UPGRADE	WCE			100	100	0	A COMPLETE PROPOSED DESIGN PACKAGE MUST BE DEVELOPED AND SENT TO THE STATE FOR APPROVAL PRIOR TO ANY MODIFICATIONS BEING MADE TO THE CURRENT MONITORING SYSTEM.
6620	EAST INCINERATOR REPAIR	JLM	04/92		415	404	11	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92

ENVIRONMENTAL - K. G. Akins

Water

All wastewater discharge parameters were met for the month of May.

Confirmatory bioassay testing on the Ceriodaphnia dubia did not indicate any toxicity in our wastewater. Ceriodaphnia dubia reproduction was lower than the controls on the first test conducted in April.

Pond 2

Pond 2 reclamation continues with no major operational problems. The first railcar of Pond 2 resin was received by Royal Plastics in May. We have not received any feedback on the processing of this material as yet.

Waste

Waste shipments during the month included:

- A bulk shipment of waste oil to Fisher Industrial Services in Gadsden, AL.

ENERGY CONSERVATION - J. R. Ganc

	<u>May., 1992</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 1.6%>	< 16.5%>
B. Adjusted EUI	1.0%	< 14.0>
C. BTU/Lb. Product	2646.0	2983.0
D. Total Energy Consumption MMM BTU	137.6	1084.3

II. Boiler Operation

	<u>Combustion Efficiency %</u>	
<u>Boiler</u>	<u>May., 1992</u>	<u>Fiscal Y.T.D.</u>
No. 1	82.7%	83.3%
No. 2	83.9%	83.3%
No. 3	83.3%	83.0%

HUMAN RESOURCE REPORT

MAY, 1992

PERSONNEL - J. E. Beall

EMPLOYMENT

Hollie Harris - Rehire - Co-op Student Engineer.

Berlin Genetti - Rehire - Co-op Student Engineer.

Dwight McComb, Jr. - Rehire - Co-op Student Engineer.

PROMOTIONS/TRANSFERS

Joseph Hegwood - Transferred from a Mechanical Engineer to Operations Engineer replacing Rory Sneed.

Gary Sanders - Compound Utility progressed to Compound Operator.

Dale Barr - Reduction-in-Force - Compounder moved back to Compound Operator.

Willie White - Reduction-in-Force - Compounder moved back to Compound Operator.

Denton Cunningham - Reduction-in-Force - Compound Utility moved back to General Helper.

RETIREMENTS

None.

TERMINATIONS/RESIGNATIONS

Thaer Abudiab - Co-op Student Engineer returned to school.

Michael Schneider - Co-op Student Engineer returned to school.

TO/FROM LEAVE OF ABSENCE

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

ABERDEEN PLANT
MONTHLY PERSONNEL REPORT
MAY, 1992

<u>EMPLOYMENT</u>		<u>NEW HIRES</u>	<u>MO</u>	<u>FYD</u>
Salaried	77	Salaried/Transfer	0	6
Hourly	158	Hourly	0	0
Temporary	3	Temporary	2	4
SUB TOTAL	238	TOTAL	2	10
L.O.A.	2			
TOTAL	240			

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						MO.	FYD	
WAREHOUSE	15	9	0	60%	0	0	0	0
GENERAL PLANT	10	5	0	50%	0	0	2	30%
MAINTENANCE	36	8	0	22.2%	0	0	3	12.5%
LABORATORY	22	4	1	18.2%	4.5%	0	1	6.8%
COMPOUND	36	24	1	66.7%	2.8%	1	2	8.4%
VINYL	34	11	2	32.4%	5.9%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	158	63	4	39.9%	2.5%			
SALARIED	77	6	19	7.8%	24.7%			

<u>APPLICATIONS</u>	<u>No.</u>	<u>%</u>	<u>PLANT TURNOVER</u>	<u>No</u>	<u>%</u>
Month	0	0	Hourly Month	0	0
FYD	0	0	FYD	4	2.0%
Minority	0	0	Salaried Month	0	0
Female	0	0	FYD	5	9.8%

Printed
6/03/92

DEPARTMENTAL SUMMARY HOURS REPORT

----- YEAR-TO-DATE -----
Monthly

Department	Overtime				Paid Absences				Long-term Disability	Total Abs % of S/T	Vacation
	Total S/T Hr	Total Hour	% of S/T	Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence % of S/T	Jury Duty	National Guard	Death in Family	
YARD	1628.00	113.00	9.89	48.00	64.00	0.00	0.00	0.00	0.00	0.00	108
UTILITY	828.00	97.50	14.67	24.00	32.00	0.00	0.00	0.00	0.00	0.00	48
MAINTENANCE	5335.75	355.50	6.96	16.00	240.00	16.75	.31	32.00	0.00	56.00	536
QC LAB	3023.25	224.50	10.20	84.00	112.00	3.75	.12	0.00	84.00	9.00	192
JANITORS	372.25	5.25	2.08	2.50	16.00	3.50	.94	0.00	0.00	0.00	8
WAREHOUSE	1258.50	171.50	13.63	0.00	56.00	6.50	.52	0.00	0.00	0.00	56
STORES	336.00	36.00	10.71	0.00	16.00	0.00	0.00	0.00	0.00	0.00	16
DEVELOPMENT LAB	935.50	75.00	10.58	24.00	40.00	1.75	.19	0.00	0.00	0.00	24
DRY BLEND	1103.50	98.00	13.23	48.00	40.00	.50	.05	0.00	48.00	0.00	36
COMPOUND	6246.25	1026.50	20.08	227.50	248.00	45.75	.73	0.00	36.00	40.00	328
VINYL	6581.25	1296.75	22.92	212.00	280.00	242.75	3.69	0.00	24.00	0.00	720
PLASTICIZER	710.00	178.25	25.11	0.00	32.00	2.00	.28	0.00	0.00	0.00	100
Total Plant =====>>	28358.25	3677.75	15.39	686.00	1176.00	323.25	1.14	32.00	192.00	105.00	2172

Pay Period ending May 31, 1992

04/27/92 - 5/31/92

Printed
6/03/92

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

Department	Overtime		Paid Absences					Long-term Disability		Total Abs % of S/T	Vacation
	Total S/T Hr	Total Hour	% of S/T	Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence % of S/T	Jury Duty	National Guard	Death in Family	
YARD	6828.00	530.75	9.88	144.00	224.00	48.00	.70	0.00	0.00	12.00	564
GENERAL HELPERS	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILITY	3430.50	453.00	15.30	72.00	112.00	1.50	.04	0.00	0.00	0.00	312
MAINTENANCE	23746.75	2730.25	11.72	53.25	736.00	301.00	1.27	144.00	0.00	152.00	3520
QC LAB	13784.50	1019.75	9.40	276.00	456.00	210.25	1.53	24.00	84.00	105.00	1564
JANITORS	1579.75	44.25	2.96	2.50	48.00	4.50	.28	8.00	0.00	0.00	112
WAREHOUSE	5583.00	784.00	14.14	5.50	160.00	15.50	.28	0.00	0.00	48.00	328
STORES	1519.50	45.75	3.01	0.00	48.00	.50	.03	0.00	0.00	0.00	208
DEVELOPMENT LAB	4089.50	286.50	8.50	61.00	120.00	7.00	.17	0.00	0.00	0.00	184
DRY BLEND	4881.50	392.50	10.50	120.00	152.00	21.50	.44	0.00	48.00	0.00	420
COMPOUND	29244.75	3379.75	13.99	711.00	960.00	193.00	.66	48.00	36.00	112.00	2748
VINYL	28343.00	5454.75	21.60	668.00	928.00	1191.00	4.20	24.00	120.00	72.00	2460
PLASTICIZER	3651.75	450.50	13.08	27.00	120.00	64.25	1.76	0.00	0.00	0.00	816
Total Plant =====>>>	126722.50	15571.75	13.98	2140.25	4064.00	2058.00	1.62	248.00	288.00	501.00	13236

Pay Period ending May 31, 1992

01/06/92 - 05/31/92

VAB.0001189270

ADMINISTRATIVE SERVICES - D. A. Barclay

Safety

There were no reportable safety instances this month.

Quality

All teams met during May to review progress on their projects.

Futures

	<u>MTD</u> <u>Gain/(Loss)</u>	<u>YTD</u> <u>Gain/(Loss)</u>
Natural Gas	\$0	<\$34,092,64>

Statistics

<u>Processed</u>	<u>Month</u>	<u>FY92</u> <u>Y.T.D.</u>
Processed Invoices	801	8627
Working Fund Checks Written	13	134
Cost Savings Through Bid Process	\$0.0	\$22,265.19
Raw Material Purchase Orders Issued	80	725
MRO/AFE Purchase Orders Issued	172	1497
Spare Parts Purchase Orders Issued	194	1570

Packaged Finished Goods Ending Inventory

	<u>Apr.. '92</u>	<u>May.. '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	3,563,400	3,547,042	< 16,358>	< 0.46>
PLENEX	162,973	144,053	< 18,920>	<11.61>
Compound Off-Grade (BC)	391,041	581,047	190,006	48.59
Compound Off-Grade (H)	229,824	231,324	1,500	0.65
Millscrap	285,228	291,642	6,414	2.25
Dry Blend "A" Grade	675,280	720,154	44,874	6.65
Dry Blend Offgrade	297,598	266,442	< 31,156>	<10.47>
Resin Type I	1,270,450	1,175,100	< 95,350>	< 7.51>
Resin Type "BC"	13,600	13,600	0	0
Vacuum Dust	167,808	180,246	12,438	7.41
Total Packaged W/house	7,057,202	7,150,650	93,448	1.32

Bulk Finished Goods Ending Inventory

	<u>Apr.. '92</u>	<u>May.. '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	704,762	567,672	< 137,090>	<19.45>
Compound Offgrade	0	0	0	0
Dry Blend "A" Grade	2,009,200	1,003,050	<1,006,150>	<50.08>
Dry Blend Offgrade	790,510	598,930	< 191,580>	<24.23>
Resin "A" Grade	8,789,158	16,216,208	7,427,050	84.50
Resin Offgrade	1,718,501	1,486,101	< 232,400>	<13.52>
Total	14,012,131	19,871,961	5,859,830	41.82

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
MAY 1992

03:07 PM
10-Jun-92

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	18,603,650	16,924,950	0	152,465,910	134,493,050	0
RESIN-PACKAGED	622,120	456,000	0	3,937,955	2,283,650	0
FLEXIBLE COMPOUND-BULK	522,040	1,809,700	0	1,974,160	15,634,000	0
FLEXIBLE COMPOUND-PACKAGED	3,508,313	40,078	0	24,725,584	230,753	0
NEW BUSINESS	21,720	0	0	133,434	0	0
RIGID COMPOUND-BULK	1,420,010	710,300	0	9,628,230	4,589,900	0
RIGID COMPOUND-PACKAGED	485,113	0	0	3,272,462	175,850	0
RIGID COMPOUND-PELLETS	0	0	0	0	0	0
TOLLING - BULK	0	0	0	0	0	0
TOLLING - PACKAGED	0	0	0	0	0	0
PLASTICIZER	0	527,930	0	81,300	4,168,470	917,400
TOTAL	25,182,966	20,468,958	0	196,219,035	161,575,673	917,400

-SHIPMENTS BY MODE- BULK:				
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
MAY				
RESIN	163	17	25	205
FLEXIBLE COMPOUND	10	0	13	23
RIGID COMPOUND	10	0	13	23
PLASTICIZER	3	0	1	4
TOTAL MAY	186	17	52	255
YTD				
RESIN	1,279	117	287	1,683
FLEXIBLE COMPOUND	90	0	54	144
RIGID COMPOUND	60	3	103	166
PLASTICIZER	26	0	12	38
TOTAL YTD	1,455	120	456	2,031

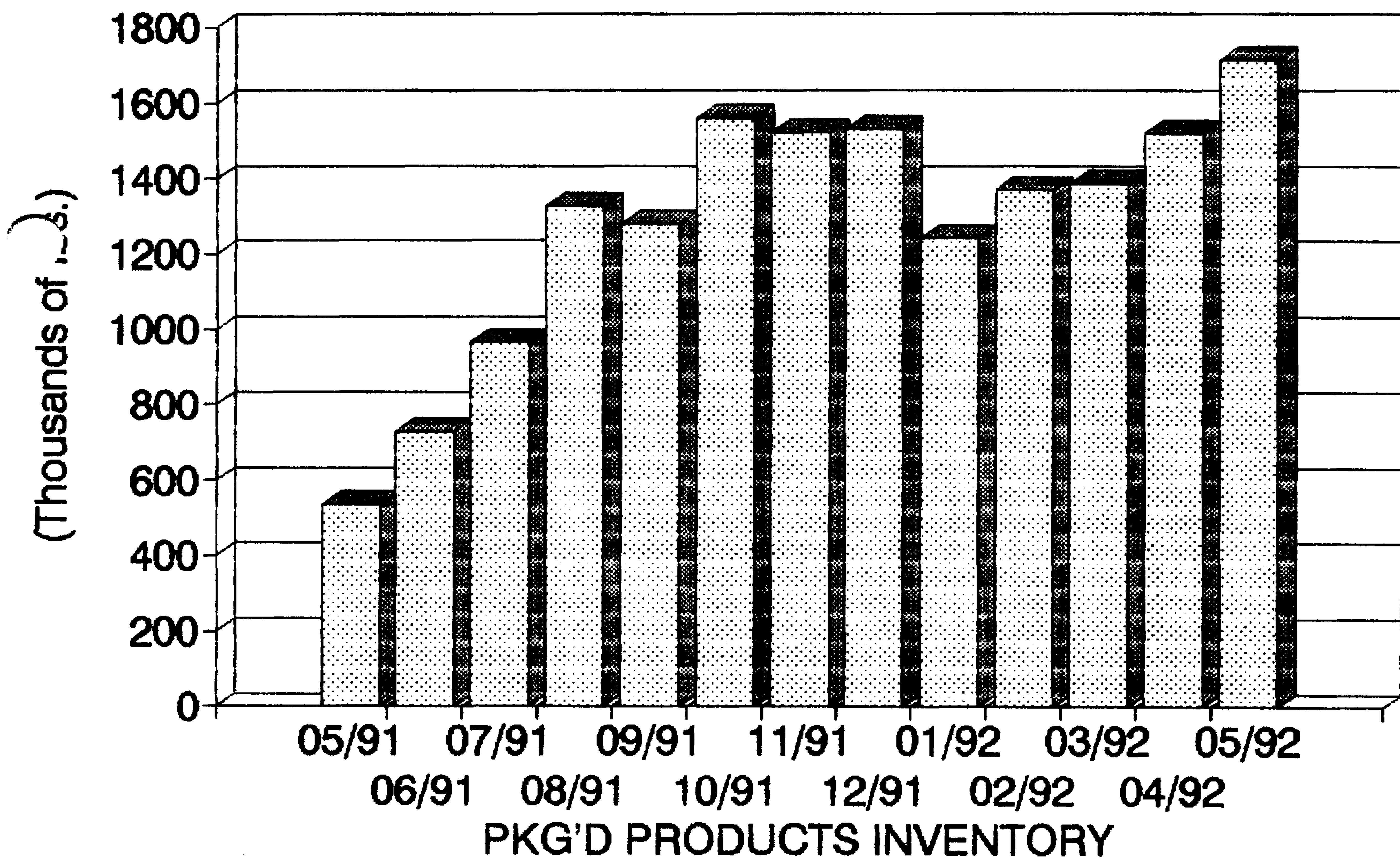
PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
MAY						
RESIN	4	30	0	0	0	34
FLEXIBLE COMPOUND	9	112	0	0	2	123
RIGID COMPOUND	2	10	0	0	0	12
PLASTICIZER	0	0	0	0	0	0
TOTAL MAY	15	152	0	0	2	169
YTD						
RESIN	26	175	0	0	4	205
FLEXIBLE COMPOUND	161	684	0	0	23	868
RIGID COMPOUND	14	96	0	0	1	111
PLASTICIZER	0	0	0	0	0	0
TOTAL YTD	201	955	0	0	28	1,184

CC: DAB,TLC,AEV,JRF

VAB.0001189272

FLEXIBLE & RIGID OFF-GRADE

MAY '91 THRU MAY '92



06/01/92

ABERDEEN CHEMICAL PLANT
PRODUCT RETURNS
MAY 1992

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR #	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
05/12/92	CENTRAL PLASTICS	KS, MCPHERSON	CMPD	13883	57121 WTCLR327	11P11	BOXES	6,344	02095	12/17/91	0004578-000		DID NOT RUN WELL
05/12/92	CENTRAL PLASTICS	KS, MCPHERSON	CMPD	1122-58	17121 WTCLR327	10B12	BOXES	1,116	02095	01/09/91	899120-001		DID NOT RUN WELL

							Sum	7,460					
05/21/92	CERRO WAC	AL, HARTSELLE	RESIN	10797	5415	T-381	BULK	47,920	02055	05/20/92	0010914-007		HOUSTON ERROR-SHOULD HAVE CANCELLED-SILO FULL

							Sum	47,920					
05/21/92	DIXIE WIRE	TN, NASHVILLE	CMPD	13380	35031 NAT03	10B21	BAGS	2,500	02096	05/13/92	0010689-000		MAT IN BAGS-CUST WANTED ROSES

							Sum	2,500					
05/30/92	HARLEY Moulding	VA, ATKINS	RESIN	10783	5305	UTCX46444 BULK		177,100	02056	04/10/92	0008787-000		REJECTED BY CUSTOMER

							Sum	177,100					
								=====					
							Sum	234,980					

VAB.0001189274

LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during May.

B. Customer Contacts

- Jim Edwards and John Olson visited Intex in Corinth, MS to discuss resin specifications. Specs were set for 5385, 5415 and 5305.
- Fred Williams, Mike Quackenbush and Jim Edwards visited Vycom in Scranton, PA to discuss product quality, Q.C. testing and other Business Area concerns.
- Richard Williams and Dean Honeycutt visited Marley Mouldings in Marion, VA to discuss 5305 particle size specifications and advise them about resin unloading equipment.

C. Customer Q.C. Problem Reports and CNR's

5/06 Times Fiber, Chatham, VA

The customer complained of having difficulty unloading 38601 BLK compound from a railcar. It is suspected that the calcium stearate was not added to help the material transfer process.

5/07 Royalite, Warsaw, IN

The customer complained of a miscommunication concerning the delivery time of a 5305 bag shipment. The production was delayed but the shipment was expedited to arrive as scheduled.

5/27 Northwire, Osceola, WI

The customer complained of wire size reduction, rate reduction and quality problems using 38601 BLK compound. The problem coincides with using suspect VRP plasticizer in the formulation.

LABORATORY - Continued

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Hayes Dockside	80273G WHT 110	Short Fusion Time; High Eq. & Fusion Torques	1 R/C
Hayes Dockside	80273G WHT 110	Long Stability Time; High Eq. Torque	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 May, 1992.

	<u>Reactor Slurries</u>	<u>Dryer</u>	
		<u>5265</u>	<u>5305</u>
Number of Samples	976	34	95
Average RVCM, ppm	57	0.119	0.352

F. RVCM of Shipment Samples

The following is a summary of the residual VCM analysis of shipment samples for the month of May, 1992.

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5225	7	1.270
5265	59	0.067
5305	152	0.116
5325	5	0.077
5385	56	0.114
5395	11	0.120
5415	75	0.029
5416	0	0
5465	6	0.036
Debox	12	0.192
Pond	2	0.134
Dry Blend	1	0.018

LABORATORY - ContinuedG. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>%</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	297.0	<5.34>	----	----
Specific Gravity	7.0	<0.13>	3.2	<0.06>
Color	22.0	<0.40>	32.1	<0.58>
Hard Particles	-----	-----	43.1	<0.77>
Heat Stability	-----	-----	6.4	<0.12>
Mischarge	-----	-----	17.0	<0.31>
Totals	326.0	<5.86>	101.8	<1.83>

H. Rigid Compound Quality Summary

	<u>Rejections</u>	
	<u>M Lbs.</u>	<u><%></u>
40 Mesh	<u>3.9</u>	<u><0.27></u>
Total	3.9	<0.27>

May 1992

Resin Process Capabilities	(based on dryer "regulars")					
	5225	5265	5305	5325	5385	5415
Bulk Density	2.05	1.50	0.81	0.64	1.91	1.24
Inherent Viscosity (vs. 0.64 -0.67)	0.32	1.03	0.81	0.86	0.85	0.54
(vs. 0.715-0.744)		0.33	0.33			
"L" Color	2.22	3.83	3.00	23.67	2.92	4.44
"a" Color	2.50	3.50	8.67	2.67		
"b" Color	2.33	5.33	6.33	7.33	2.00	5.67
% on Pan (vs. 2% max.)	2.47	2.22	1.29	12.67	1.58	2.22
						0.55
% thru 140	3.12	3.98	1.56		1.24	3.79
Hard Particles, Average						
5 minutes					13	3
7 minutes					3	1
METS IR						
(vs. 95% of Control)					4.28	5.89
						2.81
Average Particle Size, Microns	145	156	149	154	167	175

SAMPLE SHIPMENTS
MAY 1992

RESIN

Ship Date	Product	Amount	Customer	Ship Mode
5/05/92	5385	50 lbs.	Penetron	UPS
5/05/92	5385	5 lbs.	Quantum Chemical	UPS
5/08/92	5305 (Deralled)	5 lbs. X 8	Keysor Century	Airborne
05/14/92	5415	4500 lbs.	Johnsonite	CC
05/15/92	5305	50 lbs.	Electrocal	Fed. Express
05/18/92	5265	500 lbs.	PVC Container Corp.	CC
05/20/92	5395	500 lbs.	United Technologies Auto.	CC
05/27/92	5265	50 lbs.	Trinidad Concrete Co. Ltd.	Airborne
05/28/92	5225 OG	50 lbs.	H. Heller & Co.	2nd Day UPS

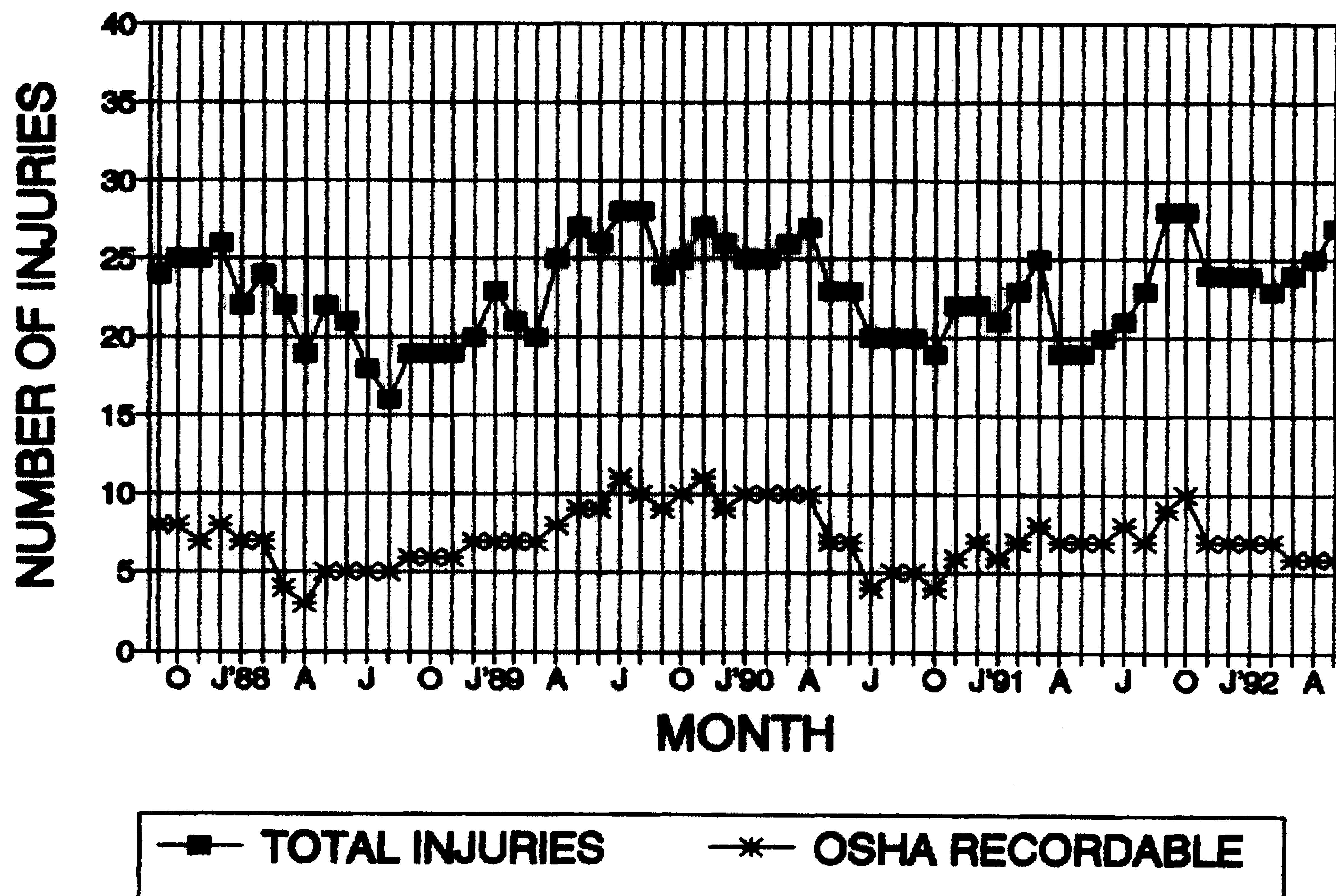
COMPOUND

Ship Date	Product	Amount	Customer	Ship Mode
5/04/92	PLENEX 1200	200 lbs.	Intercomp	CC
	PLENEX 1275	200 lbs.		
	PLENEX 1250 N734	200 lbs.		
5/11/92	PLENEX 1275	200 lbs.	Ericsson Cable AB	Airborne
5/22/92	48562 BLK	1500 lbs.	Davis Standard Co.	CC
5/22/92	48562 BLK	1500 lbs.	The Standard Products Co.	CC

DRYBLEND

Ship Date	Product	Amount	Customer	Ship Mode
05/19/92	901 72D WHT 110	50 lbs.	Fiberchem Inc.	UPS
05/21/92	489-145B WHT 128	990 lbs.	Berlinex Polymers (CANADA)	CC
	RP-43 WHT 128	980 lbs.		

ABERDEEN CHEMICAL PLANT INJURIES **(Twelve Month Running Totals)**



ABERDEEN ENERGY EFFICIENCY BTU/LB TOTAL PRODUCTION

