

File Copy

To: T. H. Huffman

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

Subject: **ABERDEEN MONTHLY PROGRESS REPORT**
June, 1992

VISTA

Interoffice
Communication

Safety

There were two first aid and one OSHA recordable injuries reported in June. The recordable injury (MTO) involved a Compound Operator who fell and sprained his wrist. At month end, the plant's employees had worked 4744 days (6,359,937 employee hours) since the last lost time injury.

FY1992 Key Statistical Information

	<u>June</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	37.1	329.1
Reactor Stream Factor, %	91.8	85.5
Resin Quality, % Prime	98.1	97.0
VCM Efficiency, Lbs./Lb.	1.0563	1.0356
Flexible Compound Production, MM Lbs.	5.9	47.1
Flexible Compound Quality, % Prime	97.5	96.5
Rigid Compound Production, MM Lbs.	1.8	18.0
Rigid Compound Quality, % Prime	96.2	97.7
Plasticizer Production, MM Lbs.	1.6	12.9
Plasticizer Quality, % Prime	81.6	79.8
Energy Use, (EUI, %)	< 8.4>	< 13.3>
Fixed Cost Variance, \$M	<207.4>	<567.0>
Variable Cost Efficiency Variance, \$M	<153.2>	<585.4>

Costs

The unfavorable efficiency variance is primarily due to above budget VCM consumption.

Fixed costs were above budget due to accruing all accounts for the RWE year-end closing, a correction of a mis-accrual of the May payroll, extensive repairs to the plant's trackmobile, and costs associated with OSHA Process Safety compliance.

Operations

PVC ran at full production during June. New agitator blades in D-745 resulted in improved 5385 resin quality and the batch size was increased by 5000 pounds.

T. H. Huffman

07/23/92

Aberdeen Monthly Progress Report - June, 1992

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Operations - Continued

The flexible compound unit ran at high rates on Lines I and III. Rates on these lines increased some as fewer product changes were taken as compared to previous months. Line V and the dry blend unit both operated with reduced staffing.

QMP

The plant received Southwire's Quality Supplier Award.

Environmental

A meeting was held with MDEQ and EPA to discuss progress on remediation activities at the plant. After listening to our presentations, the EPA representative indicated that further sampling was not needed.

We met with MDEQ to discuss progress in meeting the more stringent BOD limits contained in the 1993 NPDES permit. MDEQ requested a followup meeting this Fall.

Cleanout of Pond 2 continued with satisfactory progress being made.



D. C. Skokna
Plant Superintendent

rah

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J. D. Burns X

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R. L. Poe X

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H. D. Garrison X

LGVCM Plant

P. E. Markey X

LCCP Plant

J. Friend X

LCLAB Plant

J. W. Ware X

Baltimore

L. R. Bauer X

Hammond

J. Pavao X

Premiere

P. L. Foote X

AberdeenRWS/DCS (File Copy), JBA, JEB, JME, SCH,
DAB, DAM, JEN, JDO, BLT

SAFETY - B. L. Trego

	<u>June</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>
First Aid	2	14	11
OSHA Recordable	<u>1</u>	<u>4</u>	<u>6</u>
Total Injuries	3	18	17
Number of Restricted Workday Cases	0	2	4
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	0	4	2
Compound Operations	2	6	5
Maintenance	0	7	8
Laboratory	0	0	0
Receiving/Warehouse	0	0	0
Office	<u>1</u>	<u>1</u>	<u>2</u>
Totals	3	18	17

Injuries by Type

Cuts and Abrasions	2	9	4
Eye Injuries	0	0	1
Burns	0	4	3
Bruises	0	1	3
Strains/Sprains	1	3	3
Stings	0	1	0
Other	<u>0</u>	<u>0</u>	<u>3</u>
Totals	3	18	17

Non-Occupational Injuries

Lost Workday Cases	0	6	6
Days Lost	0	11	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 - 4,744
Employee hours since - 6,359,937

On June 30, 1992, the employees of the Aberdeen plant completed 4,744 days with no lost time injury.

SAFETY - Continued

Annual first aid review was given to Lab Technicians during the month.

The June safety training topic was "Electrical Hazards" which culminated with employee involvement in a plant-wide electrical hazards survey.

Routine dosimetry results for the month were:

<u>Chemical</u>	< PEL		> PEL	
	<u>Number</u>	<u>Percent</u>	<u>Number</u>	<u>Percent</u>
VCM	76	98.7	1	1.3
Lead	6	100.0	1	0
Total Particulates	5	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	Process Engineering	Contusion of left shoulder; abrasion of left arm, left lower leg, and left side of forehead.
FA	Compound	Abrasion and contusions of upper back, right mid-back, and forearm.
MT	Compound	Strain of left wrist.

QUALITY MANAGEMENT PROCESS - E. E. Smith

The plant natural teams continue to meet on a regular basis.

The Vinyl Department and support groups received the Southwire Quality Supplier Award for 1992. The Aberdeen Plant continues to work hard to obtain and maintain an "Excellent Supplier Award" rating from Southwire.

No customer audits were conducted in June.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>June, 1992 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	<\$159.5>	<\$24.3>	<\$183.8>
Flexible Compound	< 35.2>	< 11.7>	< 46.9>
Rigid Compound	6.5	< 37.0>	< 30.5>
Plasticizer	<u>35.0</u>	<u>14.5</u>	<u>49.5</u>
Total	<\$153.2>	<\$58.5>	<\$211.7>

PVC

VCM consumption was above budget and accounts for essentially all of the unfavorable variance. We believe it is due to accounting errors that were not found before the submittal of the final IPA.

Flexible Compound

Raw material use was above budget.

Rigid Compound

Operations were essentially at budget.

Plasticizer

Raw material use was below budget.

Major Price Variances:

	<u>Variance - \$M</u>
■ Debox Resin Credit	\$45.6
■ PVC Reactor Initiators	21.1
■ Electricity	17.6
■ Phthalic Anhydride	12.2
■ Rigid Compound "BC" Grade Credit	< 13.1>
■ Resin to Rigid Compound	< 18.7>
■ Natural Gas	< 26.3>
■ Resin to Flexible Compound	< 37.1>
■ VCM	< 76.9>
■ Other Price Variances	<u>17.1</u>
Total	<\$58.5>

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	<\$ 69.6>
■ MM&C	< 50.2>
■ Miscellaneous	< 83.3>
■ TI&D	< 8.3>
■ Clearances	<u>4.3</u>
Total	<\$207.4>

COST VARIANCES - Continued

Payroll & Benefits

Salaried payroll was \$18.3M unfavorable due to above budget engineering staffing. Hourly payrolls were \$50.2M unfavorable due primarily to not accurately accruing the May payroll and the overtime to cover a high number of people out on either leave of absences or long term illness.

MM&C

The \$50.2M unfavorable variance is due primarily to accruing all work. In addition, there were approximately \$20M of accruals related to the pond 2 cleanout that will be paid by Conoco in July.

Miscellaneous

- T&E - \$12.4M Unfavorable - Accruals of current travel and costs associated with moving the Compound Customer Service Representative function to Aberdeen caused this unfavorable variance.
- Assigned Vehicles - \$43.9M Unfavorable - Extensive repairs to the plant's trackmobile caused most of the unfavorable variance.
- Outside Professional Services - \$11.1M Unfavorable - Contract designers were brought in to document electrical equipment labelling and VCSM documentation. We expect this category to be \$50M favorable at year-end.
- Shipping Cost - \$23.5M Unfavorable - This is due to two May invoices that were paid in June and to moving loaded PVC rail-cars back to the plant so that the resin could be bagged.
- TI&D - This category was \$8.3M unfavorable due to insurance (\$4.2M unfavorable); FICA taxes (\$16.2M unfavorable); and ad-valorem taxes (\$2.5M unfavorable).

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

The Vinyl Department had no injuries in June.

The monthly safety meetings were held on shift led by the shift supervisor.

General

1. Fluid bed dryer process changes have improved contamination performance of the dryer since the installation of the additional heating panels. We will continue to monitor its progress.
2. New agitator blades were installed in D-745 to improve hard particles and increase batch size. D-745 could only produce type III 5385 due to hard particles but with the new blades produces type I resin. The batch size was increased by 5000 pounds per batch. Testing has not been completed to fully evaluate the benefit to low molecular weight resins.

	<u>June</u>	<u>YTD</u>
- Production, MM Lbs.	37.1	329.1
- Daily Rate, M Lbs./C.D.	1236.7	1201.1
- Capacity Utilization Factor, %	93.2	90.6
- Total Reactor Charges	908.0	7868.0
- Charges/C.D.	30.3	28.7
- Reactor Stream Factor, %	91.8	85.5
- Rotary Dryer Stream Factor (#4-#8), %	90.1	90.8
- Fluid Bed Dryer Stream Factor, %	95.1	89.6
- Resin Quality, % Prime	98.1	97.0

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).	353.0
■ Maintenance downtime (D-741 annual inspection, D-744 condenser cleaning, D-400 seal replacement, D-600 PVA ram valve, D-742 steam line, new module slurry pumps, D-742 condenser cleaning, D-700 rinse supply valve, D-745 agitator blade changeout, D-741 PM, D-742 PVA ram valve, D-742 jacket weld, D-400 jacket weld, and D-745 rinse nozzle).	236.0

VINYL - Continued

<u>Dryer Time</u>	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	25.2
■ Maintenance downtime (activator problems, centrifuge repair).	8.2
■ Reactor limited production.	66.6

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

- The fluid bed dryer pick heater was removed from service and rebuilt.
- Reactor 741 gearbox PM schedule was completed.
- Spray nozzle on reactor 700 was changed and reactor 745 was changed twice. Failure was due to no lubrication in the gear section.
- The new test blades on the agitator were installed in reactor 745.
- Reactors 742 and 744 were hydroblasted and agitator gearboxes were PM'd.
- The old unit rinse pump was removed from service, sent to Gould's to be rebuilt, and re-installed. Normal wear due to some cavitation was reason for rebuilding.
- Critical instrument PMs were completed on the following systems:
 - a. Reactor 400
 - b. Reactor 742
 - c. Reactor 744
 - d. Reactor 745
 - e. Dryer #1
- Cooling tower 4B fan motor was removed from service to replace the bearings.
- The east bio-disc blower motors were sent out for repair due to bad bearings.

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

Safety

The Compound Department had one OSHA recordable injury for the month. A Compound Operator incurred a sprained wrist due to an accidental fall. The Compound Department also had a restricted work case during the month, but this was deemed a none work related accident and was not considered OSHA recordable.

General

Orders continue to be tight on Line I and Line III. Production for the month is up slightly from last month due to a decrease of downtime from product changes. Line V and Dryblend continue to operate a reduced staffing.

<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	30	1815	60	14116
Line III	30	3554	118	29132
Line V	18	528	29	3815
Total		5896	197	47064
% Prime		97.50		96.48
Capacity Utilization Factor		72.47		67.28

Downtime

Hours

Line I

- Product Changes	106
- One Dicer Offline	29
- Miscellaneous Maintenance	33
- Quality	18

Line III

- Product Changes	72
- Miscellaneous Maintenance	29
- Quality	5

Line V

- Product Changes	42
- Quality	11
- Miscellaneous Maintenance	10
- Coverage for Other Lines	36

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	1782	99	18033
% Prime		96.20		97.65
Capacity Utilization Factor		35.17		38.76

Downtime

Hours

- Product Changes	36
- Miscellaneous Maintenance	11
- Quality	25

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	29	1590	55	12894
% Prime		81.63		79.82
Capacity Utilization Factor		65.33		59.19

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

- PMs were completed on the following:
 - #5 cooling tower
 - #5 and #6 dicers
 - Grove crane
- The new hydraulic pump on Line I Banbury was replaced. The system had been running on a rental unit since the old unit failed.
- The south nitrogen blower in P-1 was overhauled due to bad vibration.
- Line III #6 dicer motor was replaced and repaired. Bad windings were responsible for the motor failure.

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

PROJECTS IN DEVELOPMENT - GENERAL

Staffing

Erik Smith was transferred to Quality Management Coordinator starting July 1.

Water Plant

Equipment delivery delays continue to push back startup dates. Startup is scheduled for mid-August.

Wastewater

The first issue of the pond 3 and 4 bottom aeration design is complete. An oxidant test run will be scheduled later in the year. Test results would be more applicable if the test was after the summer months. A wastewater team has been formed to speed project execution and pursue parallel avenues of solutions.

Plasticizer Expansion

Discussions with consultants and vendors confirmed the overhead condenser design. A pressure control scheme was confirmed with the process controls group in Houston. Preliminary quotes have been received on all major equipment. Class "A" design passed a plant review and will be given to estimating after a Process Hazardous Analysis in early July.

Ultraclean

Rinse segregation, dumping slurry and rinse water to separate blend tanks, was trialed for five days. Segregation and processing rinse water separate from prime showed promising results. An improvement in dry resin contamination of 15-25% was noted.

Discussions continue with a vendor of an alternate reactor cleaning machine. This machine has an externally driven spray head and should require less maintenance than the existing reactor cleaning machines.

A new initiator dispersion test was proposed this month. Instead of charging initiator to the reactors with water, the initiator will be pulled out of the charge pot with an eductor. Better dispersion can be accomplished in this manner. Scheduling for the test has been delayed until the new agitator blades in reactor 745 are evaluated.

Plant Steam Supply

Preliminary economics for improving the reliability of the plant's steam system were developed. Options include retubing boiler #3 and buying a new boiler. The most attractive options were buying a new 60M lb./hr. boiler and repairing #3 as necessary to keep it in service.

ENGINEERING - Continued

OSHA Process Safety

A Process Safety Management Team was formed. The team is developing and implementing a management program to comply with OSHA regulations.

The Employee Participation Plan is completed.

The Document Approval and Control Policy is completed. The purpose of this policy is to ensure all process safety management documents are reviewed and approved in a timely manner.

The Process Hazards Analysis Execution Policy and the Operating Procedure Development Policy were both issued for review.

Inert Gas Dryer

Startup complete; the dryer is running with no problems.

Blend Tank T-501 Sparger Revisions

A Class "A" design was submitted to revise spargers and the cleanout system for blend tank T-501. The design will improve aeration and reduce cleanout times. This project is targeted for first fiscal quarter 1993.

Compound Productivity

A preliminary economic analysis indicates that buying concentrated lead in supersacks may save an estimated \$41M per year. A similar economic study is now underway to determine if using reusable boxes instead of gaylords has benefits.

Rotary Dryers

Centrifuge pool depth effects on wet cake moisture have been studied, tests on effluent are underway, results show possible improvements on drying rates and resin quality. A Class "A" design is underway for activator load cells.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
JUNE REPORT

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

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u>	
			<u>M\$</u>	<u>%</u>
Month	251.3	280.0	- 28.6	-10.2%
3rd Qtr.	736.6	791.0	- 54.4	- 6.8%
YTD	2854.6	3362.0	- 758.7	-15.0%

Actual Expenditures - Expenditures in June were \$28.6M less than the plant's budgeted expenditure forecast approved in the Third Quarter Budget submitted in March FY92. Total capital expenditures for the 3rd quarter were \$736.6M, 6.6% less than the plants budgeted expenditure forecast.

June's FY92 capital expenditures were 10.2% less than the plant's budgeted expenditure forecast. 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 4th Quarter Capital Budget calls for expenditures of \$479.0M and July expenditures of \$105.0M.

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		(OVER)/ UNDER	STATUS
						TOTAL			
ACTIVE PRE-1992 CARRYOVER PROJECTS									
A649	VINYL CONTROL SYSTEM MODERNIZATION	ACW	04/92		6400	6630	-230		ALL PUNCH & SAFETY AUDIT ITEMS HAVE BEEN COMPLETED MINOR ITEMS REMAINING, REQUEST FOR EXTENSION HAS BEEN SENT TO HOUSTON, TARGETED FIELD CLOSURE IS SEPT. 92
C591	DRYBLEND SAMPLE LINE	GSN	03/92	06/92	50	49	1		PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
D511	VCM UNLOADING MODIFICATIONS	MLC			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	ACW	04/92	06/92	91	89	2		PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
D849	COMPOUND L-3 SEMI-BULK LEAD HANDLING	JBH	04/92	06/92	145	131	14		PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
F551	DRYBLEND SCREENER REPLACEMENT	GSN	04/92	06/92	103	102	1		PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
F660	5305 DECALCIFIED WATER SYSTEM	JLW	04/92	06/92	500	501	-1		PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
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

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\$M

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN		CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT		(OVER)/ UNDER	STATUS
			OPERATION	DATE			TOTAL			
G659	NEW DRYER BAGHOUSES	JLW	11/89		1550	1504	46			SAFETY AUDIT ITEMS REMAINING - ROTATING THE KNEE FITTINGS ON EACH OF THE BLOWER MOTORS, REQUEST FOR EXTENSION HAS BEEN SENT TO HOUSTON
G839	PLANT WATER RECYCLE	GSN	04/92	06/92	165	174	-9			PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
H500	PLANT WATER SYSTEM	WCE			4000	4400	-400			SAFETY AUDIT ITEMS AND PUNCH LIST ITEMS IN CONTROL ROOM WATER PLANT ELECTRICAL IS 98% COMPLETE. ROAD WORK WILL IN PROGRESS IN JULY, WATER PLANT CONSTR IS 97% COMPLETE START UP IS TARGETED FOR AUGUST, OPERATING PROCEDURES ARE CURRENTLY BEING DEVELOPED.
H510	WEST INCINERATOR REPLACEMENT	JLW	04/92	06/92	460	463	-3			PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
H581	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
H601	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 MODIFI- CATIONS BEING MADE TO THE CURRENT MONITORING SYSTEM.

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 (OVER)/		STATUS
						TOTAL	UNDER	
H620	EAST INCINERATOR REPAIR	JLW	04/92		415	404	11	PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
F611	PLENEX MOISTURE ANALYZER	JBH	01/92	06/92	14	13	1	PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
SUBTOTAL PRE-FISCAL 1992 PROJECTS						14339	14929	-590

FISCAL 1992

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FIRST FISCAL QUARTER

C522	DOLLINGER FILTER REPLACEMENT	GSN	04/92		34	20	14	TWO NEW RV'S WILL BE PLACED ON ORDER IN JULY. TARGETED TO BE INSTALLED IN AUGUST
D532	INERT GAS DRYER	GSN			28	31	-3	PROJECT WILL BE PLACED IN OPERATION IN JULY MINOR PUNCH AND SAFETY AUDIT ITEMS REMAIN
H502	MISCELLANEOUS CAPITAL	MLC			225	225	0	36 PROJECTS APRVD 28 COMPL 8 IN PRGRS 10 IN ESTIMATING 11 PROJECTS ON HOLD
H512	FLUID BED DRYER IMPROVEMENTS	JBH	06/92		40	26	14	PLACED IN OPERATION, TARGETED FIELD CLOSURE 9/92

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
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
SUBTOTAL					339	314	25	

SECOND FISCAL QUARTER

D552	LINE III CONDENSATE RETURN	JLW			28	28	0	MECHANICAL DESIGN IS IN PROGRESS
D562	P-1 EJECTOR RELOCATION	ACW			40	40	0	MECHANICAL DESIGN COMPLETED AND BULK MAT'L ON ORDER
F572	DECALCIFIED POLISHING FILTERS	JLW	04/92	06/92	60	60	0	PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
H582	FORK TRUCK REPLACEMENT	MLC	06/92		40	40	0	2 NEW FORK TRUCKS HAVE ARRIVED IN THE PLANT PROJECT HAS BEEN PLACED IN OPERATION
G592	FLAME ARRESTOR LID MODIFICATIONS	GSN			32	32	0	MECHANICAL DESIGN IS COMPLETE AND BULK MAT'L ORDERED. MECH AND ELECTRICAL CONTRACTORS HAVE BEN SELECTED
D602	VCM TRUSS	JBH	04/92	06/92	40	48	-8	PROJECT CLOSED TO FIELD CHARGES - FINAL REPORT
SUBTOTAL					240	248	-8	

APPROVED CAPITAL PROJECT STATUS

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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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THIRD FISCAL QUARTER

C622	FLUID BED STARTUP LINE	GSN			25	25	0	MECHANICAL DESIGN IS IN PROGRESS
D652	VCM TANK FARM COMPRESSOR UPGRADE	JLW			200	200	0	MECHANICAL AND ELECTRICAL DESIGNS ARE IN PROGRESS
H632	AGITATOR GEARBOX REPLACEMENT	ACW			65	65	0	NEW GEARBOX HAS BEEN PLACED ON ORDER
H642	HEAD SPACE ANALYZER	WCE			55	55	0	HEAD SPACE ANALYZER HAS BEEN PLACED ON ORDER
H662	LAB AC IMPROVEMENTS	GSN			150	150	0	OUTSIDE CONSULTANT/ENGINEERING FIRM HAS BEEN IN THE PLANT AND CONDUCTED A SURVEY FOR DESIGN WORK. DESIGN TARGETED TO BE COMPLETED IN LATE JULY OR EARLY AUGUST

TOTAL FISCAL 1992 PROJECTS

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GRAND TOTAL - ALL PROJECTS

15413 15986 -573

4

ENVIRONMENTAL - K. G. Akins

Water

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

A meeting with the Industrial Wastewater Control Division of the Mississippi Department of Environmental Quality (MDEQ) was held on June 3 to discuss Vista's progress on meeting the more stringent BOD limits contained in the 1993 permit. The MDEQ requested a second meeting in the Fall to update them again.

Superfund

A meeting was held with the MDEQ and EPA on June 13 to discuss progress on remediation activities at the Aberdeen plant site. Based on our presentation, the EPA said they do not intend to pursue further sampling at this time.

Waste

Waste shipments during the month included:

- A bulk shipment of API sludge to Chemical Waste Management in Emelle, AL.
- A 550-gallon shipment of stabilizer spill to Fisher Industrial Services in Gadsden, AL.
- A 35-gallon shipment of waste paint solvent to Fisher Industrial Services in Gadsden, AL.
- An 880-gallon shipment of plasticizer filter cake to Fisher Industrial Services in Gadsden, AL.

ENERGY CONSERVATION - J. R. Ganc

	<u>June, 1992</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 11.9%>	< 15.9%>
B. Adjusted EUI	< 8.4%>	< 13.3>
C. BTU/Lb. Product	2861.0	2970.0
D. Total Energy Consumption MMM BTU	130.2	1214.5

II. Boiler Operation

	<u>Combustion Efficiency %</u>	
<u>Boiler</u>	<u>June, 1992</u>	<u>Fiscal Y.T.D.</u>
No. 1	84.1%	83.3%
No. 2	84.0%	83.3%
No. 3	84.3%	83.1%

HUMAN RESOURCE REPORT

JUNE, 1992

PERSONNEL - J. E. Beall

EMPLOYMENT

Michael L. Harvey - New Hire - Chemical Engineer.

Kelly D. Wood - New Hire - Chemical Engineer.

Jason A. Edwards - New Hire - Mechanical Engineer.

PROMOTIONS/TRANSFERS

None.

RETIREMENTS

Cleveland Brown - Vinyl "A" Operator - Vinyl Department -
Incapacity Retirement.

TERMINATIONS/RESIGNATIONS

William E. West - Vinyl Lead Operator - Vinyl Department -
Deceased.

TO/FROM LEAVE OF ABSENCE

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

ABERDEEN PLANT

MONTHLY PERSONNEL REPORT

JUNE, 1992

<u>EMPLOYMENT</u>		<u>NEW HIRES</u>		<u>MO</u>	<u>FYD</u>
Salaried	80	Salaried/Transfer		3	9
Hourly	156	Hourly		0	0
Temporary	3	Temporary		0	4
SUB TOTAL	239	TOTAL		3	13
L.O.A.	2				
TOTAL	241				

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	26.6%
MAINTENANCE	36	8	0	22.2%	0	0	3	11.1%
LABORATORY	22	4	1	18.2%	4.5%	0	1	6.0
COMPOUND	36	24	1	66.7%	2.8%	0	2	7.4%
VINYL	32	11	2	34.4%	6.3%	2	0	8.3%
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	156	63	4	40.4%	2.6%			
SALARIED	80	6	19	7.5%	23.8%			

<u>APPLICATIONS</u>	<u>No.</u>	<u>%</u>	<u>PLANT TURNOVER</u>	<u>No</u>	<u>%</u>
Month	0	0	Hourly Month	2	1.7%
FYD	0	0	FYD	6	5.1%
Minority	0	0	Salaried Month	0	0
Female	0	0	FYD	5	8.3%

Printed
6/30/92

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	7799.25	745.75	10.79	96.00	144.00	48.75	.63	0.00	0.00	36.00
GENERAL HELPERS	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UTILITY	4070.50	518.75	13.92	48.00	72.00	1.50	.04	0.00	0.00	0.00
MAINTENANCE	27360.75	3060.75	11.30	32.00	480.00	319.50	1.17	160.00	0.00	192.00
QC LAB	15800.50	1175.50	8.58	180.00	280.00	210.25	1.33	24.00	192.00	105.00
JANITORS	1817.25	44.25	2.57	2.50	32.00	7.00	.39	8.00	0.00	0.00
WAREHOUSE	6516.75	851.00	13.06	0.00	112.00	16.00	.25	0.00	0.00	48.00
STORES	1791.50	51.75	2.89	0.00	32.00	.50	.03	0.00	0.00	0.00
DEVELOPMENT LAB	4753.25	331.50	7.92	45.00	80.00	7.25	.15	0.00	0.00	0.00
DRY BLEND	5745.50	487.50	9.53	60.00	84.00	21.50	.37	0.00	84.00	0.00
COMPOUND	33227.75	4139.25	13.78	439.50	592.00	211.50	.64	48.00	84.00	112.00
VINYL	33241.00	6262.50	20.18	444.00	592.00	1263.00	3.80	60.00	120.00	72.00
PLASTICIZER	4186.00	545.75	13.04	0.00	72.00	73.75	1.76	0.00	0.00	0.00
Total Plant =====>>	146350.00	18214.25	13.37	1347.00	2572.00	2180.50	1.49	300.00	480.00	565.00

Pay Period ending
June 28, 1992
01/06/92 - 06/28/92

6 mgs
19561.25 Maint 11.30
118989.25 16,468.5 ops, = 13.84

Printed
6/30/92

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

Department	Total S/T Hr	Overtime		Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence		Jury Duty	Paid Absences		Long-term Disability	Total Abs % of S/T	Vacation
		Total Hour	% of S/T				% of S/T	% of S/T		National Guard	Death in Family			
YARD	1127.25	227.00	20.14	0.00	0.00	.75	.07		0.00	0.00	24.00	0.00	2.20	180
UTILITY	724.00	65.75	9.08	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	120
MAINTENANCE	4126.00	405.75	9.83	0.00	0.00	18.50	.45		16.00	0.00	40.00	0.00	1.81	752
QC LAB	2364.00	167.75	7.10	0.00	0.00	0.00	0.00		0.00	108.00	0.00	0.00	4.57	264
JANITORS	269.50	1.00	.37	0.00	0.00	2.50	.93		0.00	0.00	0.00	0.00	.93	48
WAREHOUSE	1039.50	110.50	10.63	0.00	0.00	.50	.05		0.00	0.00	0.00	0.00	.05	80
STORES	304.00	6.00	1.97	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	8
DEVELOPMENT LAB	759.75	46.00	6.05	0.00	0.00	.25	.03		0.00	0.00	0.00	0.00	.03	40
DRY BLEND	960.00	107.00	11.15	0.00	0.00	0.00	0.00		0.00	36.00	0.00	0.00	3.75	20
COMPOUND	4767.00	833.50	17.48	0.00	0.00	26.50	.56		0.00	48.00	0.00	204.00	5.84	292
VINYL	5590.00	921.00	16.48	0.00	0.00	72.00	1.29		36.00	0.00	0.00	240.00	6.23	420
PLASTICIZER	637.25	99.75	15.65	0.00	0.00	9.50	1.49		0.00	0.00	0.00	120.00	20.32	48
Total Plant =====>	22668.25	2991.00	13.19	0.00	0.00	130.50	.58		52.00	192.00	64.00	564.00	4.42	2272

Pay Period ending June 28, 1992

06/01/92 - 6/28/92

VAB.0001189233

ADMINISTRATIVE SERVICES - D. A. Barclay

Safety

There were no reportable safety instances this month.

Quality

All teams met during June 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	947	9574
Working Fund Checks Written	20	154
Cost Savings Through Bid Process	\$6,160.57	\$28,425.76
Raw Material Purchase Orders Issued	160	885
MRO/AFE Purchase Orders Issued	241	1738
Spare Parts Purchase Orders Issued	170	1740

Packaged Finished Goods Ending Inventory

	<u>May. '92</u>	<u>June. '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	3,547,042	3,399,031	<148,011>	< 4.17>
PLENEX	144,053	159,878	15,825	10.99
Compound Off-Grade (BC)	581,047	463,256	<117,791>	<20.27>
Compound Off-Grade (H)	231,324	270,429	39,105	16.90
Millscrap	291,642	341,660	50,018	17.15
Dry Blend "A" Grade	720,154	534,150	<186,004>	<25.83>
Dry Blend Offgrade	266,442	327,276	60,834	22.83
Resin Type I	1,175,100	598,200	<576,900>	<49.09>
Resin Type "BC"	13,600	100	< 13,500>	<99.26>
Vacuum Dust	<u>180,246</u>	<u>210,606</u>	<u>30,360</u>	<u>16.84</u>
Total Packaged W/house	7,150,650	6,304,586	<846,064>	<11.83>

Bulk Finished Goods Ending Inventory

	<u>May. '92</u>	<u>June. '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	567,672	499,675	< 67,997>	<11.98>
Compound Offgrade	0	0	0	0
Dry Blend "A" Grade	1,003,050	1,335,580	332,530	33.15
Dry Blend Offgrade	598,930	598,930	0	0
Resin "A" Grade	16,216,208	12,588,021	<3,628,187>	<22.37>
Resin Offgrade	<u>1,983,802</u>	<u>1,591,012</u>	<u>< 392,790></u>	<u><19.80></u>
Total	20,369,662	16,613,218	<3,756,444>	<18.44>

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
JUNE 1992

01:39 PM
10-Jul-92

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	14,636,610	19,558,630	0	167,102,520	154,051,680	0
RESIN-PACKAGED	676,350	656,800	0	4,614,305	2,940,450	0
FLEXIBLE COMPOUND-BULK	1,510,280	1,440,850	0	3,484,440	17,074,850	0
FLEXIBLE COMPOUND-PACKAGED	3,066,717	0	0	27,792,301	230,753	0
NEW BUSINESS	1,400	0	0	134,834	0	0
RIGID COMPOUND-BULK	609,650	637,050	0	10,237,880	5,226,950	0
RIGID COMPOUND-PACKAGED	341,477	6,000	0	3,613,939	181,850	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	83,760	925,790	0	165,060	5,094,260	917,400
TOTAL	20,926,244	23,225,120	0	217,145,279	184,800,793	917,400

-SHIPMENTS BY MODE-				
BULK:				
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
JUNE				
RESIN	189	6	30	225
FLEXIBLE COMPOUND	8	0	32	40
RIGID COMPOUND	5	0	9	14
PLASTICIZER	5	0	4	9
TOTAL JUNE	207	6	75	288
YTD				
RESIN	1,468	123	317	1,908
FLEXIBLE COMPOUND	98	0	86	184
RIGID COMPOUND	65	3	112	180
PLASTICIZER	31	0	16	47
TOTAL YTD	1,662	126	531	2,319

PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
JUNE						
RESIN	2	40	0	0	1	43
FLEXIBLE COMPOUND	13	84	0	0	0	97
RIGID COMPOUND	1	13	0	0	0	14
PLASTICIZER	0	0	0	0	0	0
TOTAL JUNE	16	137	0	0	1	154
YTD						
RESIN	28	215	0	0	5	248
FLEXIBLE COMPOUND	174	768	0	0	23	965
RIGID COMPOUND	15	109	0	0	1	125
PLASTICIZER	0	0	0	0	0	0
TOTAL YTD	217	1,092	0	0	29	1,338

CC: DAB,TLC,MAS,AEV,JRF

VAB.0001189235

07/01/92

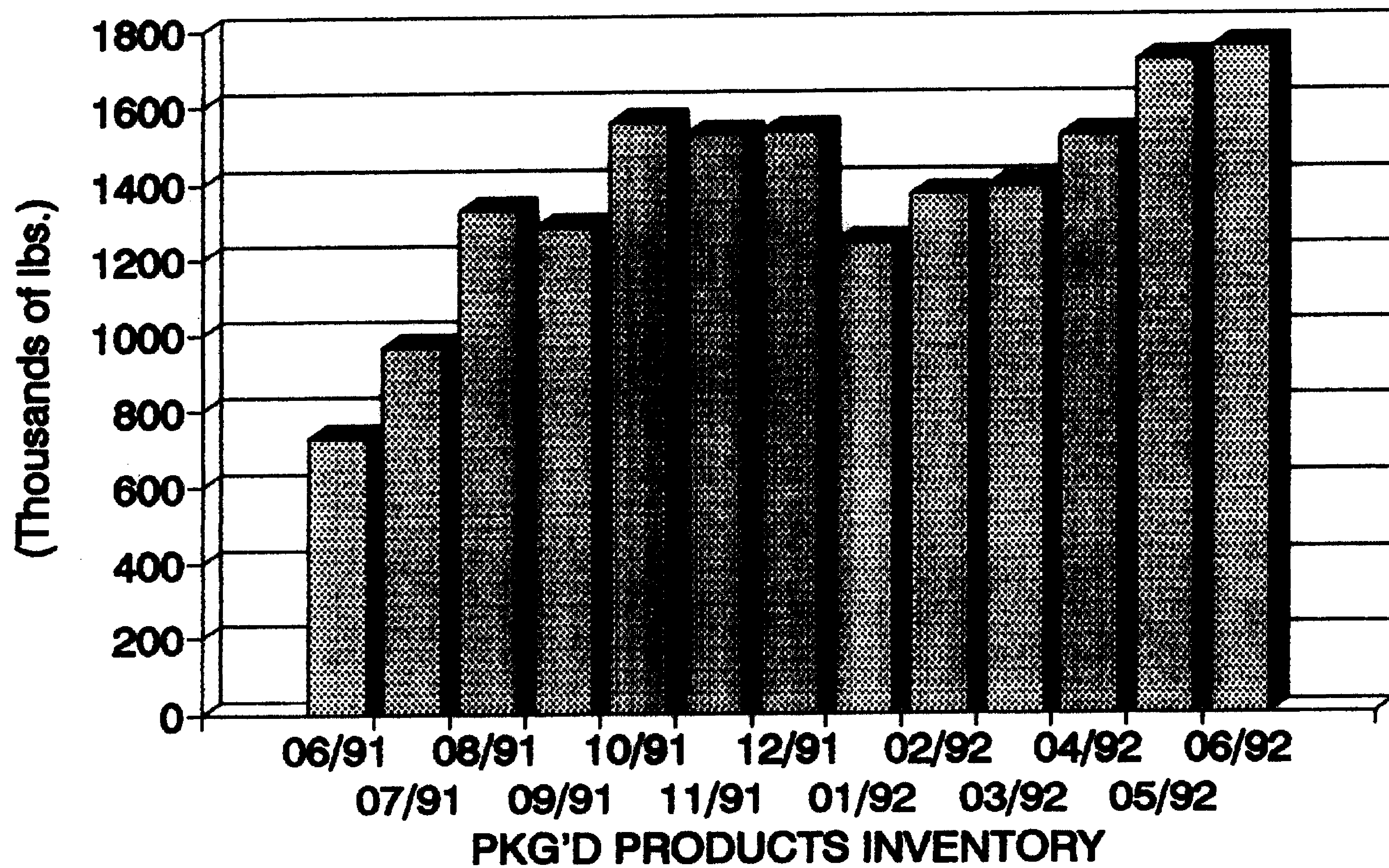
APPROXIMATE CHEMICAL PLANT
PRODUCT RETURNS
JUNE 1992

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR #	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
06/29/92	ARNOR BOND	MS, SARDIS	RESIN	10790	5385	PLWX44449	BULK	45,720	02099	05/18/92	0010302-007		ARRIVED AT CUST W/1 HATCH OPEN
								Sum					
								45,720					
06/19/92	IPC CORINTH	MS, CORINTH	RESIN	10790	5385	VIPX45760	BULK	178,750	02057	04/14/92	0009578-001		CUSTOMER REJECTED
06/19/92	IPC CORINTH	MS, CORINTH	RESIN	10783	5305	UTCX46422	BULK	178,760	02058	04/20/92	0009579-001		CUSTOMER REJECTED
								Sum					
								357,450					
06/01/92	TENEX	IL, ELK GROVE VLG	CMPD	10391	16851	11F19	BOXES	3,000	02097	05/21/92	0011227-001		CUST CLAIMS 2 BOXES SHORT
								Sum					
								3,000					
06/22/92	TRIANGLE PWC INC.	MO, SIKESTON	CMPD	10555	35852	12U29	BOXES	11,947	02098	06/03/92	0011915-002		DISPERSION PROBLEMS
								Sum					
								11,947					
								Sum					
								418,117					

VAB.0001189236

FLEXIBLE & RIGID OFF-GRADE

JUNE '91 THRU JUNE '92



LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during June.

B. Customer Contacts

There were no "on the road" customer contacts made in June.

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

6/08 Flexible Technologies, Abbeville, SC

The customer complained of gray pellets and white resin contamination in one box of 46801 Black compound. This product run followed a 34862 Gray run on Line III.

6/08 Athol, Manufacturing, Butner, NC

The customer complained of a miscommunication concerning the delivery time of a 5415 hopper truck. It was scheduled for 6/22 but was delivered on 6/8.

6/08 Armor Bond, Sardis, MS

The customer complained of a 5385 railcar that arrived with a hatch open. Rain through the hatch wetted the resin. A bolt on the hatch had come loose.

6/11 Triangle Wire & Cable, Sikeston, MO

The customer complained of clogged screen paks after running only 22 hours on 35852 compound. They normally run 72 hours on one screen pak. Blending procedures were changed on Line III for 35852 to solve the poor dispersion problem.

6/17 Freedom Plastics, Janesville, WI

The customer complained that a 5385 railcar shipment was very fluffy. The Aberdeen Lab data showed that this was the finest particle size shipment ever sent to them. The specification was changed to tighten the percent through the 140 mesh.

LABORATORY - Continued

C. Customer O.C. Problem Reports and CNR's - continued

6/19 Alsco, Olive Branch, MS - continued

The customer complained that a 5385 railcar had very hard to open bottom outlet valves. The valves will be inspected when the car returns.

6/29 American Mirrex, New Castle, DE

Melted and fused clumps of resin were caught in the unloading screen at the terminal while unloading two 5305 railcars.

6/29 Nibco, Greensboro, GA

The customer complained of dried clumps of 5265 resin causing problems during resin unloading and compound blending.

6/29 Donnelly Corporation, Holland, MI

The customer complained of bills of lading arriving out of sequence and pre-shipment samples arriving late. A conference call was made to Donnelly to explain how shipping compound trucks from the plant instead of the terminal would affect the process including bills of lading, certificates of analysis, and samples. They were satisfied.

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Essex	5415	Viscosity	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 June, 1992.

	<u>Reactor</u>	<u>Dryer</u>	
	<u>Slurries</u>	<u>5265</u>	<u>5305</u>
Number of Samples	907	38	69
Average RVCM, ppm	49	0.092	0.128

LABORATORY - Continued

F. RVCM of Shipment Samples

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

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5225	20	0.818
5265	60	0.067
5305	129	0.078
5325	4	0.084
5385	67	0.095
5395	5	0.048
5415	80	0.018
5416	0	0
5465	6	0.017
Debox	27	0.169
Pond	4	0.035
Dry Blend	2	0.024

G. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>%</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	241.0	<4.02>	5.9	<0.10>
Color	150.5	<2.51>	31.5	<0.53>
Hard Particles	-----	-----	34.2	<0.57>
Heat Stability	5.0	<0.08>	4.8	<0.08>
Dicing	-----	-----	4.6	<0.08>
Mischarge	-----	-----	33.4	<0.56>
METS-IR	-----	-----	10.5	<0.31>
Totals	396.5	<6.62>	124.9	<2.09>

H. Rigid Compound Quality Summary

	<u>Rejections</u>	
	<u>M Lbs.</u>	<u><%></u>
Color	59.5	<3.34>
Total	59.5	<3.34>

June 1992

Resin Process Capabilities	(based on dryer "regulars")						
	5225	5265	5305	5325	5385	5395	5415
Bulk Density	2.8	1.13	0.90	0.58	2.17	2.58	1.44
Inherent Viscosity (vs. 0.64 -0.67)	0.25	1.00	0.37	---	0.93	0.51	0.46
(vs. 0.715-0.744)		0.36	0.32				
"L" Color	1.03	8.00	2.40	7.56	3.00	2.60	4.44
"a" Color	1.56	3.67	4.17	8.33			
"b" Color	2.17	2.83	3.00	3.17	4.00	5.00	5.67
% on Pan (vs. 2% max.)	1.39	1.17	1.61	2.50	2.50	1.40	5.50 0.50
% thru 140	2.53	1.60	2.06		1.51	1.05	4.74
Hard Particles, Average							
5 minutes					15	3	4
7 minutes					3	1	1
METS IR (vs. 95% of Control)						1.44	4.29 2.06
Average Particle Size, Microns	149	147	153	151	161	143	171

SAMPLE SHIPMENTS
JUNE 1992

RESIN

Ship Date	Product	Amount	Customer	Ship Mode
6/01/92	5305	500	Alcan Building Products	CC
6/01/92	5325	50	Intex Plastics Corp.	UPS
06/10/92	5305	4 X 5 lbs.	American Mirrex	Airborne
6/22/92	5325	10 lbs.	Color Custom, Inc.	UPS
	5395	10 lbs.		
	5416	10 lbs.		
6/24/92	5385	5 lbs.	Willamette Co.	Airborne

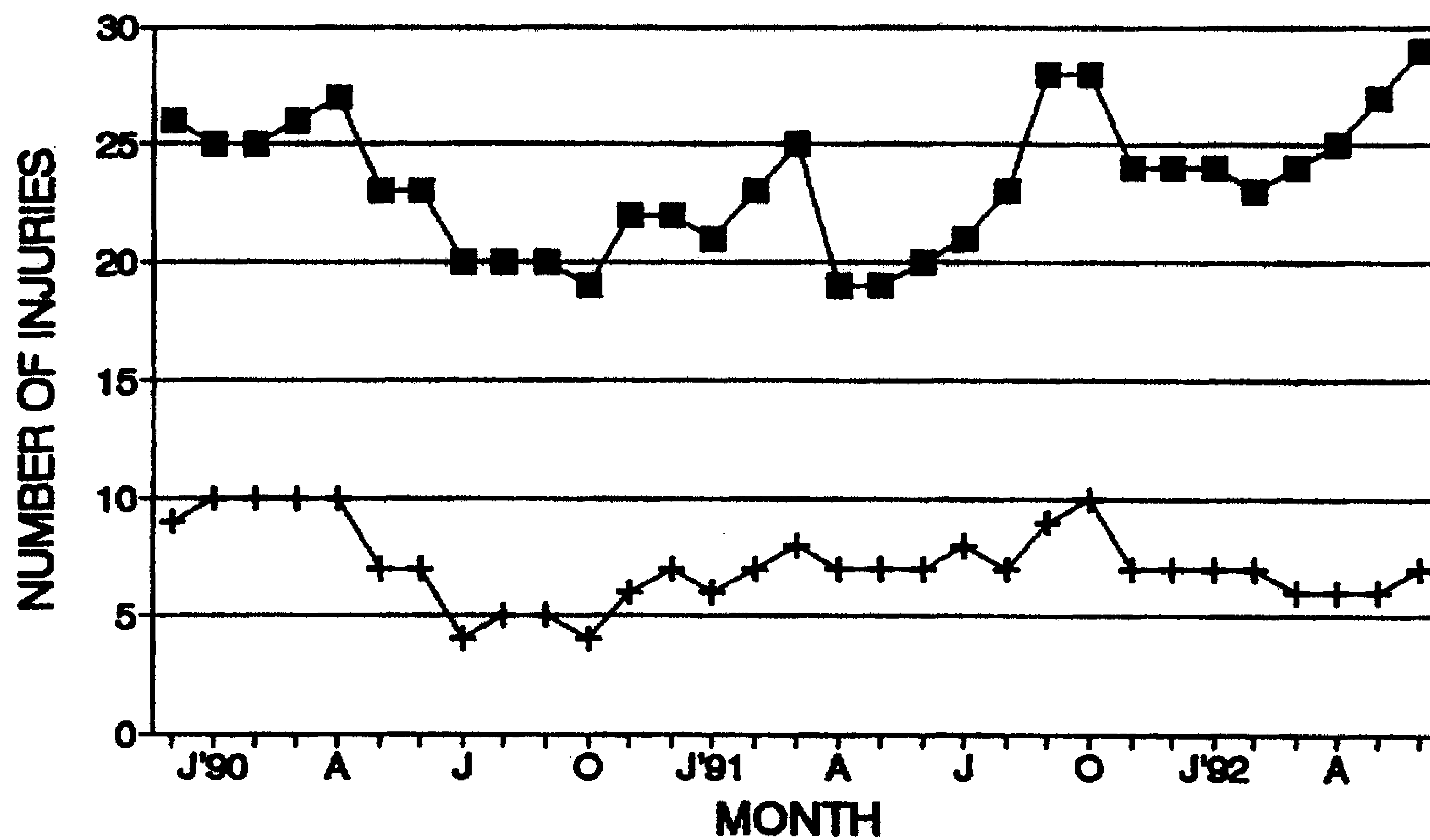
COMPOUND

Ship Date	Product	Amount	Customer	Ship Mode
6/09/92	35852 NAT	20 lbs.	Vista R&D - Austin	UPS
6/12/92	6085 BLK	10 lbs.	Enterplast, Inc.	Airborne
6/24/92	55041 CB 50	100 lbs.	Pyramid Plastics Inc.	Airborne
	58162 NAT	100 lbs.		
6/25/92	34862 GRY 546 (OG)	2 X 5 lbs.	REKO Company	UPS

DRYBLEND

Ship Date	Product	Amount	Customer	Ship Mode
06/03/92	80273G WHT 110	50 lbs.	BOLIGRAFOS Y LAPICES SA	Airborne
06/11/92	378-143 Blue 170	200 lbs.	NOVATEC	Airborne
6/25/92	RP-34 WHT 141	300 lbs.	Formtech Enterprises Inc.	CC

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



■ TOTAL INJURIES
 + OSHA RECORDABLE

ABERDEEN ENERGY EFFICIENCY BTU/LB TOTAL PRODUCTION

