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To: T. H. Huffman

From: D. C. Skokna
Date: May 27, 1992

Subject: ABERDEEN MONTHLY PROGRESS REPORT
April, 1992

VISTA

Interoffice
Communication

Safety

There was one first aid case reported during April. At month end, the plant's employees had worked 4683 days (6,272,852 employee hours) since the last lost time injury.

<u>FY1992 Key Statistical Information</u>	<u>Apr.</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	37.9	249.6
Reactor Stream Factor, %	89.8	83.4
Resin Quality, % Prime	96.6	96.7
VCM Efficiency, Lbs./Lb.	1.0577	1.0385
Flexible Compound Production, MM Lbs.	5.2	35.9
Flexible Compound Quality, % Prime	96.9	96.5
Rigid Compound Production, MM Lbs.	2.9	14.8
Rigid Compound Quality, % Prime	99.0	97.7
Plasticizer Production, MM Lbs.	1.3	10.1
Plasticizer Quality, % Prime	83.5	79.3
Energy Use, (EUI, %)	< 14.9>	< 16.1>
Fixed Cost Variance, \$M	< 110.2>	< 431.5>
Variable Cost Efficiency Variance, \$M	< 131.4>	< 627.4>

Operations

The L-9 suspending agent replacement test run was completed. The replacement material was not suitable for our charge temperatures. The fluid bed dryer was shut down for repairs, replacing the scrubber impingement plate, and installation of additional backmix heating coils.

Line I and Line III production schedules were tight all month. Dry blend rates were low due to close quality control monitoring and higher than normal downtime. Dry blend will go to a two-shift operation beginning in early May.

QMP

- The Laboratory "D" Shift presented the results of their project to reduce the amount of resin wasted due to excess sample size. The new procedure results in 28,000 lbs./year less resin downgraded.

T. H. Huffman

05/27/92

Aberdeen Monthly Progress Report - April, 1992

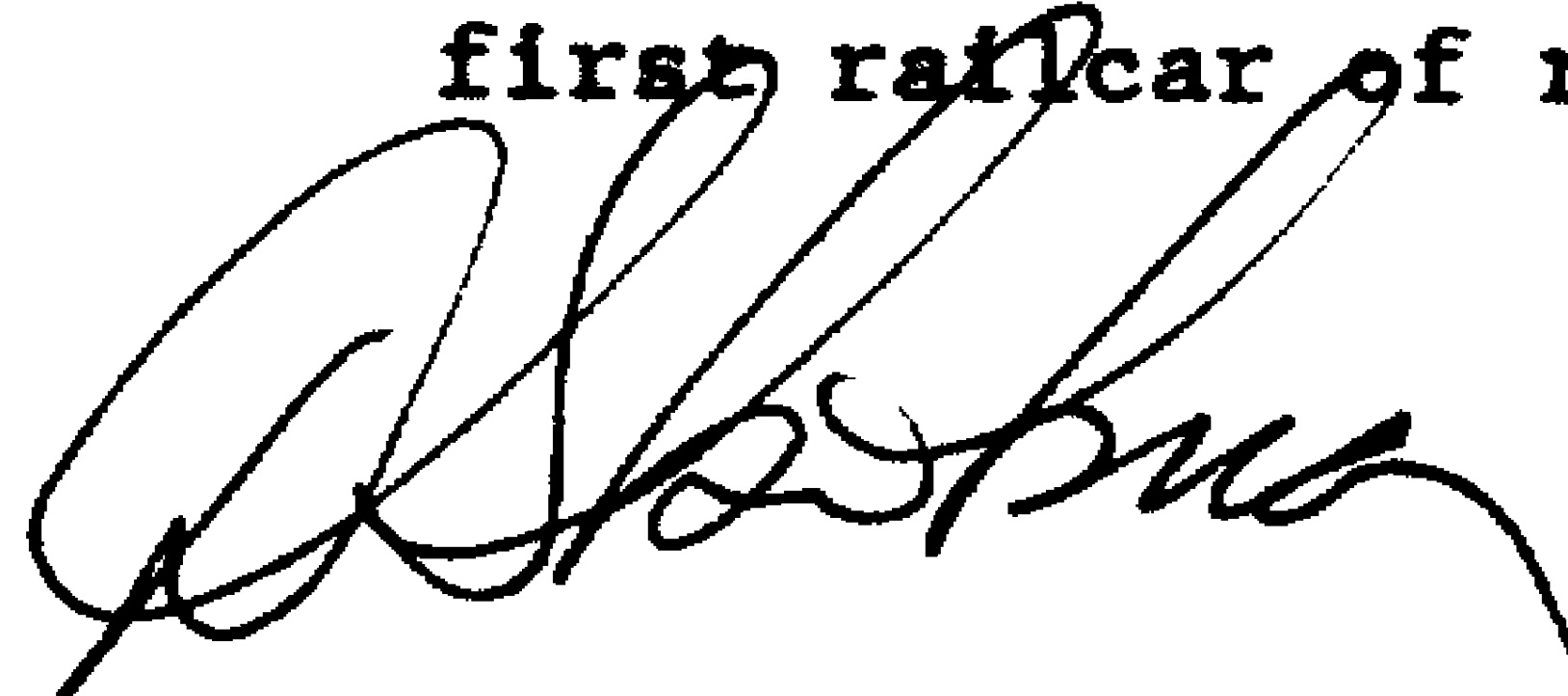
Page 2

OMP - Continued

- The Vinyl "D" Shift presented a project to reduce blend tank overflow. When fully implemented, their recommendations will save \$41,000 per year by reducing off-grade resin.
- ALSCO (a resin customer) visited the plant for an overview of our process and to gain a better understanding of the quality control testing done on the resin they purchase.
- AT&T (a flexible compound customer) conducted a Quality System Audit of the plant. Overall, the results were favorable. Recommendations include better documentation of procedures, completing the Quality Manual revisions, and attaining ISO certification.

Environmental

- The semi-annual bioassay test resulted in a failure. Results of a followup test will be available in May.
- Reclamation of the resin for Pond 2 continued. The first railcar of recovered resin was shipped.



D. C. Skokna
Plant Superintendent

rah

DISTRIBUTION

COVER LETTER

ENTIRE REPORT

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Oklahoma City

H. D. Garrison X

LCVCM Plant

P. D. Carrico X

LCCP Plant

J. Friend X

LCLAB Plant

J. W. Ware X

Baltimore

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Hammond

J. Pavao X

Premiere

P. L. Foote X

Aberdeen

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

SAFETY - B. L. Trego

	<u>Apr.</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>
First Aid	1	9	9
OSHA Recordable	<u>0</u>	<u>3</u>	<u>6</u>
Total Injuries	1	12	15
Number of Restricted Workday Cases	0	2	4
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	0	3	2
Compound Operations	0	3	4
Maintenance	1	6	7
Laboratory	0	0	0
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>0</u>	<u>2</u>
Totals	1	12	15

Injuries by Type

Cuts and Abrasions	1	6	3
Eye Injuries	0	0	1
Burns	0	2	2
Bruises	0	0	3
Strains/Sprains	0	3	3
Stings	0	1	0
Other	<u>0</u>	<u>0</u>	<u>3</u>
Totals	1	12	15

Non-Occupational Injuries

Lost Workday Cases	1	6	6
Days Lost	4	41	127

Contractor Injuries

First Aid Cases	0	3	2
Medical Treatment Cases	0	0	1
Lost Workday Cases	0	0	1

Safety Record

Last lost time injury - 7/5/79
Days since - 4,683
Employee hours since - 6,272,859

On March 31, 1992, the employees of the Aberdeen plant completed 4,683 days with no lost time injury.

SAFETY - Continued

The main topic for plant safety meetings during the month was "Hazard Communication".

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	64	98.5	1	1.5
Lead	12	92.3	1	7.7
Total Particulates	8	100.0	0	0

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Maintenance	Scratched chin.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All of the plant's natural teams continue to meet on a regular basis. Some of the team highlights during the month were:

- The Laboratory D-Shift Natural Team presented the results of their project to reduce wasted resin due to excess sample size. New procedures implemented by the team have resulted in a 28,000 pound annual reduction in the amount of resin the lab dumps to debox. This project saves Vista \$2,000 per year.
- The Vinyl D-Shift Natural Team presented their project to reduce blend tank overflow. The team made four specific specifications: 1) Institute regular PM on level transmitters; 2) Put operators on existing valves and tie into the DCS; 3) Program the DCS to close blend tank valves at 87% full; and 4) Transfer blend tanks until empty. At the current pond resin: prime resin differential, these recommendations would save \$41,000 per year. The project would also save 300 manhours per year spent cleaning spilled slurry, will extend the life of the membrane roof on V-11 and will enhance safety, the environment and product quality.
- The Synergy Team presented its list of barriers to QMP to the Plant Manager's Natural Team on April 23. The Plant Manager's Natural Team will begin developing an action plan to deal with these barriers.

Alsco (purchases 5385) visited the plant on April 7. The primary objective of the visit was to gain a better understanding of the Q.C. testing performed on the resin they purchase. Alsco was also given a plant overview and tour.

AT&T conducted a Quality System Audit of the Aberdeen Plant on April 21 and 22. The AT&T auditor reported "The overall conclusion regarding the Vista quality system are of a positive nature". He also stated "Vista has a strong management commitment to quality". Recommendations for improvement included developing more written documentation of work procedures, completing the quality manual revision and considering the attainment of ISO registration.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>Apr... 1992 Variance. \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	<\$ 91.8>	\$387.3	\$295.5
Flexible Compound	< 30.2>	< 29.4>	< 59.6>
Rigid Compound	< 17.1>	< 8.9>	< 26.0>
Plasticizer	<u>7.6</u>	<u>5.8</u>	<u>13.4</u>
Total	<\$131.4>	\$354.8	\$223.4

PVC

VCM use was above budget. This is most likely due to an accounting problem. We are investigating.

Flexible Compound

Raw material use was above budget. Resin and plasticizer consumption accounted for most of the variance.

Rigid Compound

Operation near budgeted levels.

Plasticizer

Operation was near budgeted levels.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	\$329.4
■ Debox Resin Credit	45.0
■ Electricity	30.5
■ Vacuum Vent Dust Credit	< 11.2>
■ TiO ₂	< 15.0>
■ Plasticizers	< 52.9>
■ Other Price Variances	<u>29.0</u>
Total	\$354.8

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	<\$ 42.1>
■ MM&C	< 53.3>
■ Miscellaneous	< 27.3>
■ TI&D	< 0.7>
■ Clearances	<u>13.2</u>
Total	<\$110.2>

COST VARIANCE - Continued

Payroll & Benefits

There were an unusually high number of long term absences during April. These absences and the holiday caused Operating Payroll costs to be significantly above budget.

MM&C

Two large maintenance projects, repair of the fluid bed dryer centrifuge, and replacing the Line III mill D.C. drive controller, caused expenditures to be above budget.

Miscellaneous

Most categories were near budget. There was an unfavorable variance in the Operating Contract category due to the charge for the annual service contract for the data gathering and analysis software used in conjunction with the resin DCS.

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

Safety

The Vinyl Department had no first aid case or OSHA recordable injuries during April.

The monthly safety meeting was Annual Respirator Training.

General

1. The L-9 alternate suspending agent test was completed. The L-9 is not compatible with our current charge temperatures. Several of the test batches were coarse due to L-9's sensitivity to our warmer charge water temperatures.
2. Reactor condenser cleaning was completed on three reactors for improved cooling prior to the summer season.
3. The Fluid bed dryer was shutdown for installation of actuated air dampers, water scrubber impingement plate, and extra backmix heating coils.

	<u>Apr.</u>	<u>YTD</u>
- Production, MM Lbs.	37.9	249.6
- Daily Rate, M Lbs./C.D.	1263.3	1171.8
- Capacity Utilization Factor, %	95.3	88.4
- Total Reactor Charges	928.0	5984.0
- Charges/C.D.	30.9	28.1
- Reactor Stream Factor, %	89.8	83.4
- Rotary Dryer Stream Factor (#4-#8), %	94.4	90.1
- Fluid Bed Dryer Stream Factor, %	91.4	88.0
- Resin Quality, % Prime	96.6	96.7

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).	384.0
■ Maintenance downtime (D-700 seal replacement, D-500 condenser cleaning, D-300 condenser cleaning, D-744 seal replacement, D-400 condenser cleaning, D-745 rinse nozzle, PM D-600 gearbox, D-742 seal replacement, Fluid Bed work, L-9 suspending agent test run, Hot water tank repair).	352.0

VINYL - Continued

<u>Dryer Time</u>	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	33.2
■ Maintenance downtime (activator problems, centrifuge repair).	47.7
■ Reactor limited production.	19.1

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

- Six reactor seals failed in April. Reactor 741 failed after thirty-five months in service; reactor 400 failed after twenty-five months in service; reactor 700 failed after eleven months in service; reactor 742 seal after only two months in service. Reactor 700 had two seal failures. The seal failures on reactor 700 are associated with failures of the dura-seal lubrication system.
- Reactors 300, 400 and 500 were blanked and hydroblasted for contamination control.
- The Bird centrifuge #8 was pulled out of service because of high vibration. The bushings were worn and the bowl assembly is in need of extensive machining.
- Dryer exhauster #7 drive shaft bearings were replaced and the fan was balanced after a noticeable increase of vibration was detected.
- The screw in the #7 screw feeder conveyor under the dust collector was replaced when the screw broke. The broken screw was later linked to shavings in the product.
- The VCM condensers in the New Unit were acid cleaned.
- Outside heating panels were installed on the fluid bed dryer. Demister pads were changed. Switches on the Maxon gas valves were also changed.
- The #6 exhauster motor was changed out due to bad bearings.
- The switches on the silo aeration valves were replaced as continuing modernization program.
- Two major valves in the Vinyl unit were changed.

COMPOUND - S. C. Hillman, R. H. Sneed

Safety

The Compound Department had no OSHA recordable injuries in April.

General

Orders continue to be tight on Line I and Line III. Close monitoring of dry blend product quality continues to cause higher than normal downtime and slower than normal rates.

Dryblend production will be reduced to two shifts beginning the first weekend of May.

<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	1489	50	10663
Line III	30	3051	102	22418
Line V	16	<u>643</u>	<u>40</u>	<u>2814</u>
Total		5183	173	35895
% Prime		96.91		96.52
Capacity Utilization Factor		65.79		65.44

Downtime

Hours

Line I

- Product Changes	109
- One Dicer Offline	23
- Miscellaneous Maintenance	47
- Quality	19

Line III

- Product Changes	65
- Miscellaneous Maintenance	92
- Quality	13

Line V

- Product Changes	45
- Quality	4
- Miscellaneous Maintenance	8

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	27	2916	108	14815
% Prime		98.96		97.71
Capacity Utilization Factor		57.79		40.79

Downtime

Hours

- Product Changes	64
- One Welex (Half Rates)	29
- Miscellaneous Maintenance	27
- Quality	53
- Waiting on Raw Materials	24

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	28	1268	45	10072
% Prime		83.49		79.28
Capacity Utilization Factor		53.72		58.22

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

- The hub fan assembly was replaced on the compound cooling tower. The old fan assembly was obsolete and had a cracked blade.
- Line I hydraulic pump failed and is being replaced by a rental unit. A new pump and filter system are on order.
- Line III hydrotherm three-way control valves were replaced.
- The motor on "A" blender was replaced due to bad windings. The old one was repaired for a spare.
- Line III mill motor DC controllers were replaced. One controller had major component failure. Parts were not available because the units are obsolete.

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

PROJECTS IN DEVELOPMENT - GENERAL

Water Plant

Construction is proceeding. There have been several construction delays due to material and equipment late deliveries. Startup has slipped to middle-to-late July. State approval for startup water is targeted for early June. Operator training is scheduled for early July. R&D expertise is being utilized.

Rotary and FBD Debottlenecking

FBD: Spare heating panels were installed when blower damper actuators and extra scrubber plates were installed. Some problems with resin building and burning in backmix section have hopefully lined out.

Rotary: Centrifuge capacity evaluation is in progress. Dryers which are activator limiting (i.e., #8) could run at considerably higher rates if activator air supply is increased.

Line III Separate Addition System

Class "A" design for a Line III separate liquid stabilizer addition system was completed and approved. This design will provide for more accurate and automated liquid stabilizer addition. A purge system is also included to reduce contamination resulting from product changes. This project will improve quality and reduce stabilizer usage.

OSHA Process Safety Management

A written implementation plan to comply with the new OSHA regulations has been prepared for the Aberdeen Plant. This plan sets forth the procedures, action steps, resources and timing for compliance with the thirteen elements of OSHA PSM. Draft procedures for process hazard analyses, management of change and pre-startup safety reviews have also been written and are in routing for review. An employee participation plan has been written and approved for the Aberdeen Plant.

Plasticizer Expansion

The plasticizer stripper class "A" design has been issued for review. Design reviews were held with Operations and Project Engineering. A revised class "A" will be issued pending response from vendors on exchanger, condenser and tower designs.

ENGINEERING - Continued

Wastewater System Evaluation

A wastewater model for the Aberdeen system was made using the sampling data. A pilot filter unit was tested and initial results show BOD reductions, but not as much as was anticipated. The filter study also proved R&D's theory that the system has a significant amount of algae. Current developments include better aeration in Pond 3, oxidizing Pond 4, and algae removal in Ponds 5 & 6.

Steam Survey

Information from equipment in steam service was historized using the DCS. This information included flow through meters, percent travel for analog valves, and on/off state for other actuated valves. This historical data will be compared to total steam flow from the boilers during the same time periods to determine absolute flow rates through each device.

Materials were ordered to replace the steam meter in the Old Unit.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
APRIL REPORT

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

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u>	
			<u>M\$</u>	<u>%</u>
Month	225.6	249.0	- 23.4	-9.3%
3rd Qtr.	225.6	791.0	- 565.4	-71.5%
YTD	2343.6	3362.0	- 453.0	-30.3%

Actual Expenditures - Expenditures in April were \$23.4M less than the plant's budgeted expenditure forecast approved in the Third Quarter Budget submitted in March FY92.

April's FY92 capital expenditures were 9.3% less than the plant's budgeted expenditure forecast. Twelve of the fourteen projects, which funds were forecasted to be expended in April, exceeded the forecast. Both the VCSM Project and Gas Chromatograph Project accounted for the underrun.

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 May expenditures of \$262.0M.

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
ACTIVE PRE-1992 CARRYOVER PROJECTS								
A649	VINYL CONTROL SYSTEM MODERNIZATION	ACW	04/92		6400	6690	-290	RENOVATION WORK IS UNDERWAY, TARGETED TO BE COMPLETED FIRST OF JUNE
C591	DRYBLEND SAMPLE LINE	GSN	02/92		50	49	1	TARGETED FOR FIELD CLOSURE 05-92
D511	VCM UNLOADING MODIFICATIONS	JBH			85	88	-3	NEW FLEX HOSES & COUPLING HAVE BEEN TESTED BY OPERATION NEW EQUIPMENT WILL BE ORDERED FOR UNLOADING STATIONS
D619	PROPANE AREA DELUGE SYSTEM	GSN	09/90	01/91	153	172	-19	SUPPLEMENTAL IN CIRCULATION FOR APPROVAL - TARGETED FIELD CLOSURE IN JUNE
D749	LEAD HANDLING AND EXPOSURE REDUCTION	ACW	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
G659	NEW DRYER BAGHOUSES	JLW	11/89		1550	1503	47	MINOR PUNCH LIST ITEMS REMAINING
G839	PLANT WATER RECYCLE	GSN	04/92		165	174	-9	PROJECT IS COMPLETE, VMS ERRORS CORRECTED PROJECT WILL BE CLOSED TO FILED CHARGES IN MAY
J500	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 95% COMPLETE

STARTUP OPERATING PROCEDURES ARE CURRENTLY BEING

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			
H510	WEST INCINERATOR REPLACEMENT	JLV	04/92		460	463	-3		PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
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 MODIFICATIONS BEING MADE TO THE CURRENT MONITORING SYSTEM.
H620	EAST INCINERATOR REPAIR	JLV	04/92		415	404	11		PROJECT COMPLETE AND TARGETED FOR CLOSURE 7-92
F611	PLENEX MOISTURE ANALYZER	JBH	01/92		14	13	1		TARGETED FOR FIELD CLOSURE 05-92
SUBTOTAL PRE-FISCAL 1992 PROJECTS					14339	14798	-459		

FISCAL 1992

FIRST FISCAL QUARTER

C522	DOLLINGER FILTER REPLACEMENT	GSN			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 MECHANICAL DESIGN 95% COMPLETE. TARGETED TO BE OPERATIONAL IN JUNE
M502	MISCELLANEOUS CAPITAL	MLC			150	150	0		25 PROJECTS APRVD, 19 COMPL, 6 IN PRGRS, 17 IN ESTIMATING ADDITIONAL FUNDS HAVE BEEN REQUESTED IN THE 3rd QTR BUD
B512	FLUID BED DRYER IMPROVEMENTS	JBH			40	30	10		PROJECT HAS BEEN INSTALLED WITH MINOR PUNCH LIST ITEMS

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
	SUBTOTAL				264	239	25	

REMAINING

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 IS IN PROGRESS
F572	DECALCIFIED POLISHING FILTERS	JLW	04/92		60	61	-1	TARGETED FOR FIELD CLOSURE IN 7-92
H582	FORK TRUCK REPLACEMENT	MLC			40	40	0	2 NEW FORK TRUCKS HAVE BEEN PLACED ON ORDER DELIVERY TARGETED FOR MAY
G592	FLAME ARRESTOR LID MODIFICATIONS	GSM			32	32	0	MECHANICAL DESIGN IN PROGRESS - SOME LONG DELIVERY MATERIAL HAS BEEN PLACED ON ORDER
D602	VCM TRUSS	JBH	04/92		40	47	-7	TARGETED FOR FIELD CLOSURE IN 7-92
	SUBTOTAL				240	248	-8	

TOTAL FISCAL 1992 PROJECTS

504 487 17

GRAND TOTAL - ALL PROJECTS

14843 15285 -442

ENVIRONMENTAL - K. G. Akins

Water

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

Problems were encountered with the semi-annual bioassay test conducted on the wastewater outfall. The Ceriodaphnia dubia did not reproduce in sufficient quantities to pass the test. A second bioassay was conducted as a confirmatory test. Results will be available in mid-May.

Pond 2

The reclamation of resin from Pond 2 continued throughout the month. The first railcar of Pond 2 resin was shipped on April 30th. RVCMS remain in the 20-50 ppb range and no major operational problems have been encountered in recovering the resin.

Waste

Waste shipments during the month included:

- A bulk shipment of floor sweepings to Chemical Waste Management in Emelle, AL.
- Eight drums of stabilizer spill to Fisher Industrial Services in Gadsden, AL.
- A bulk shipment of empty lead/antimony bags to Chemical Waste Management in Emelle, AL.

ENERGY CONSERVATION - J. R. Ganc

	<u>Apr.. 1992</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 17.3%>	< 18.6%>
B. Adjusted EUI	< 14.9%>	< 16.1%>
C. BTU/Lb. Product	2980.0	3031.0
D. Total Energy Consumption MMM BTU	141.8	946.4

II. Boiler Operation

<u>Boiler</u>	<u>Combustion Efficiency %</u>	
	<u>Apr.. 1992</u>	<u>Fiscal Y.T.D.</u>
No. 1	82.7%	83.2%
No. 2	83.7%	83.2%
No. 3	83.8%	82.8%

HUMAN RESOURCE REPORT

APRIL, 1992

PERSONNEL - J. E. Beall

EMPLOYMENT

None.

PROMOTIONS/TRANSFERS

Kenneth G. Akins - Environmental Coordinator - promoted to Senior Environmental Coordinator.

Rory H. Sneed - Operations Engineer - promoted to Senior Process Engineer replacing Michael Kane.

Phillip Hall - Compound Operator - bid to Vinyl "A" Operator.

Phillip Drake - Compound Operator - bid to Vinyl "A" Operator.

Jimmy Brewer - Yard Operator "A" - bid to Utility Technician "B".

George Phillips - Compound Operator - bid to Yard Operator "B" replacing Jimmy Brewer.

Debbie Johnson - Process Engineer - transferred to Process Engineer at Lake Charles VCM Plant.

Michael Kane - Senior Process Engineer - transferred to Senior Process Engineer at Lake Charles LAB Plant.

RETIREMENTS

None.

TERMINATIONS/RESIGNATIONS

None.

TO/FROM LEAVE OF ABSENCE

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

ABERDEEN PLANT

MONTHLY PERSONNEL REPORT

APRIL, 1992

<u>EMPLOYMENT</u>			<u>NEW HIRES</u>		<u>MO</u>	<u>FYD</u>
Salaried	77		Salaried/Transfer		2	2
Hourly	158		Hourly		0	0
Temporary	2		Temporary		0	0
SUB TOTAL	237		TOTAL		2	2
L.O.A.	2					
TOTAL	239					

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						MO.	FYD	
WAREHOUSE	15	9	0	60%	0	0	0	0
GENERAL PLANT	9	5	0	55.6%	0	2	2	38%
MAINTENANCE	36	8	0	22.2%	0	1	3	14.2%
LABORATORY	22	4	1	18.2%	4.5%	1	1	7.8%
COMPOUND	37	24	1	64.9%	2.7%	1	1	4.6%
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	2	2.2%
FYD	0	0	FYD	4	4.3%
Minority	0	0	Salaried Month	0	0
Female	0	0	FYD	1	2.2%

Printed
5/05/92

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

Department	Total S/T Hr	Overtime		Holiday Worked Hr	Holiday hr Not worked	Non Paid Hours	Absence % of S/T	Jury Duty	Paid Absences			Long-term Disability	Total Abs % of S/T	Vacation
		Total Hour	% of S/T						National Guard	Death in Family				
YARD	1224.00	126.00	14.22	48.00	80.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	120
GENERAL HELPERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0
UTILITY	586.50	76.00	17.05	24.00	40.00	1.50	.26	0.00	0.00	0.00		0.00	.26	96
MAINTENANCE	4343.50	611.75	14.45	16.00	240.00	39.25	.90	16.00	0.00	0.00		0.00	1.27	344
QC LAB	2293.50	394.25	21.38	96.00	168.00	22.50	.98	0.00	0.00	0.00		48.00	3.07	312
JANITORS	248.00	5.25	2.12	0.00	16.00	0.00	0.00	8.00	0.00	0.00		0.00	3.23	48
WAREHOUSE	999.00	137.75	13.79	0.00	56.00	.50	.05	0.00	0.00	0.00		0.00	.05	80
STORES	279.50	.75	.27	0.00	16.00	.50	.18	0.00	0.00	0.00		0.00	.18	24
DEVELOPMENT LAB	684.25	37.00	8.48	21.00	40.00	.75	.11	0.00	0.00	0.00		0.00	.11	112
DRY BLEND	821.00	151.25	19.88	12.00	44.00	7.00	.85	0.00	0.00	0.00		120.00	15.47	36
COMPOUND	5374.25	851.00	19.78	212.00	344.00	11.75	.22	0.00	0.00	0.00		48.00	1.11	404
VINYL	4985.25	1461.50	33.97	232.00	312.00	224.75	4.51	0.00	96.00	24.00		652.00	19.99	288
PLASTICIZER	667.75	65.75	9.85	0.00	40.00	12.25	1.83	0.00	0.00	0.00		0.00	1.83	132
Total Plant =====>	22506.50	3918.25	20.35	661.00	1396.00	320.75	1.43	24.00	96.00	24.00		868.00	5.92	1996

Pay Period ending April 26, 1992

3/30/92 - 4/26/92

Printed
5/05/92

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	5044.00	405.75	9.00	48.00	80.00	48.00	.95	0.00	0.00	12.00	1.19	444
GENERAL HELPERS	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILITY	2518.50	355.50	15.07	24.00	40.00	1.50	.06	0.00	0.00	0.00	.06	264
MAINTENANCE	17899.00	2299.50	12.94	16.00	240.00	284.25	1.59	112.00	0.00	96.00	3.47	2968
QC LAB	10413.25	783.25	8.44	96.00	168.00	206.50	1.98	24.00	0.00	96.00	4.52	1360
JANITORS	1175.50	38.00	3.23	0.00	16.00	1.00	.09	8.00	0.00	0.00	.77	104
WAREHOUSE	4218.75	569.00	13.49	0.00	56.00	9.00	.21	0.00	0.00	48.00	3.25	272
STORES	1151.50	9.75	.85	0.00	16.00	.50	.04	0.00	0.00	0.00	.04	192
DEVELOPMENT LAB	3058.00	210.50	7.57	21.00	40.00	5.25	.17	0.00	0.00	0.00	.17	160
DRY BLEND	3682.00	282.50	8.00	12.00	44.00	21.00	.57	0.00	0.00	0.00	3.83	372
COMPOUND	22214.50	2279.25	11.21	212.00	344.00	139.25	.63	48.00	0.00	72.00	1.38	2396
VINYL	21069.75	4044.75	20.30	232.00	312.00	948.25	4.50	24.00	96.00	72.00	18.21	1680
PLASTICIZER	2838.75	267.75	9.43	0.00	40.00	62.25	2.19	0.00	0.00	0.00	2.19	716
Total Plant =====>	95323.50	11545.50	12.81	661.00	1396.00	1726.75	1.81	216.00	96.00	396.00	5.93	10928

Pay Period ending April 26, 1992

01/26/92 - 4/26/92

ADMINISTRATIVE SERVICES - D. A. Barclay**Safety**

There were no reportable safety instances this month.

Quality

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

Futures

	<u>MTD</u> <u>Gain/(Loss)</u>	<u>YTD</u> <u>Gain/(Loss)</u>
Natural Gas	<\$482.58>	<\$34,092,64>

Statistics

<u>Processed</u>	<u>Month</u>	<u>FY92</u> <u>Y.T.D.</u>
Processed Invoices	996	7826
Working Fund Checks Written	19	121
Cost Savings Through Bid Process	\$1512.00	\$22265.19
Raw Material Purchase Orders Issued	114	645
MRO/AFE Purchase Orders Issued	157	1325
Spare Parts Purchase Orders Issued	208	1376

Packaged Finished Goods Ending Inventory

	<u>Mar... '92</u>	<u>Apr... '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	3,626,224	3,563,400	< 62,824>	< 1.73>
PLENEX	144,775	162,973	18,198	12.57
Compound Off-Grade (BC)	367,114	391,041	23,927	6.52
Compound Off-Grade (H)	218,074	229,824	11,750	5.39
Millscrap	271,872	285,228	13,356	4.91
Dry Blend "A" Grade	495,345	675,280	179,935	36.33
Dry Blend Offgrade	286,639	297,598	10,959	3.82
Resin Type I	1,521,450	1,270,450	<251,000>	<16.50>
Resin Type "BC"	100	13,600	13,500	13500.00
Vacuum Dust	<u>141,091</u>	<u>167,808</u>	<u>26,717</u>	<u>18.94</u>
Total Packaged W/house	7,072,684	7,057,202	< 15,482>	< 0.22>

Bulk Finished Goods Ending Inventory

	<u>Mar... '92</u>	<u>Apr... '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	641,591	704,762	63,171	9.85
Compound Offgrade	0	0	0	0.00
Dry Blend "A" Grade	1,519,735	2,009,200	489,465	32.21
Dry Blend Offgrade	790,510	790,510	0	0.00
Resin "A" Grade	10,352,795	8,789,158	<1,563,637>	<15.10>
Resin Offgrade	<u>1,606,650</u>	<u>1,718,501</u>	<u>111,851</u>	<u>6.96</u>
Total	14,911,281	14,012,131	< 899,150>	< 6.03>

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
APRIL 1992

08:25 AM
15-May-92

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	21,226,470	17,687,050	0	133,862,260	117,568,100	0
RESIN-PACKAGED	399,728	477,500	0	3,315,835	1,827,650	0
FLEXIBLE COMPOUND-BULK	363,100	1,493,500	0	1,452,120	13,824,300	0
FLEXIBLE COMPOUND-PACKAGED	3,185,034	1,500	0	21,217,271	190,675	0
NEW BUSINESS	13,350	0	0	111,714	0	0
RIGID COMPOUND-BULK	2,080,070	(119,700)	0	8,208,220	3,879,600	0
RIGID COMPOUND-PACKAGED	307,285	0	0	2,787,349	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	698,650	0	81,300	3,640,540	917,400
TOTAL	27,575,037	20,238,500	0	171,036,069	141,106,715	917,400

-SHIPMENTS BY MODE-				
BULK:				
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
APRIL				
RESIN	174	15	33	222
FLEXIBLE COMPOUND	8	0	8	16
RIGID COMPOUND	8	0	15	23
PLASTICIZER	4	0	0	4
TOTAL APRIL	194	15	56	265
YTD				
RESIN	1,116	100	262	1,478
FLEXIBLE COMPOUND	80	0	41	121
RIGID COMPOUND	50	3	90	143
PLASTICIZER	23	0	11	34
TOTAL YTD	1,269	103	404	1,776

PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
APRIL						
RESIN	3	21	0	0	1	25
FLEXIBLE COMPOUND	18	90	0	0	5	113
RIGID COMPOUND	2	12	0	0	0	14
PLASTICIZER	0	0	0	0	0	0
TOTAL APRIL	23	123	0	0	6	152
YTD						
RESIN	22	145	0	0	4	171
FLEXIBLE COMPOUND	152	572	0	0	21	745
RIGID COMPOUND	12	86	0	0	1	99
PLASTICIZER	0	0	0	0	0	0
TOTAL YTD	186	803	0	0	26	1,015

CC: DAB,TLC,AEV,JRF

VAB.0001189307

03/01/92

ABERDEEN CHEMICAL PLANT
PRODUCT RETURNS
APRIL 1992

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR #	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
04/01/92	ESSEX GROUP	IN, ARCOLA	RESIN	10797	5415	UTC146521	BULK	148,200	02051	03/05/92	0008028-001		* HATCHES WERE OPEN WHEN REC'D BY CUST.
								Sua					
								148,200					
04/13/92	PACKARD ELECTRIC	OH, WARREN	CNPB	10430	27251 BLK	31L24	BAGS	500	02093	03/23/92	0008662-000		SAMPLE-CUST CHANGED PLANS
04/13/92	PACKARD ELECTRIC	OH, WARREN	CNPB	16574	35852 GRYS62	31P28	BAGS	500	02093	03/23/92	0008662-000		SAMPLE-CUST CHANGED PLANS

								Sua					
								1,000					
04/30/92	ROLLEX	IL, ELK GROVE VLG DB	DB	16566	RP-73 WHT120	42T04	BOXES	8,160	02094	04/06/92	0008620-000		PROCESSING PROBLEMS

								Sua					
								8,160					
04/13/92	VISTA/CHEM LEAMAN	PA, TAYLOR	DB	10661	RP-421 WHT110	ACFX57605	BULK	121,850	02053	02/18/92	0003404-011		IMPROPERLY STABILIZED

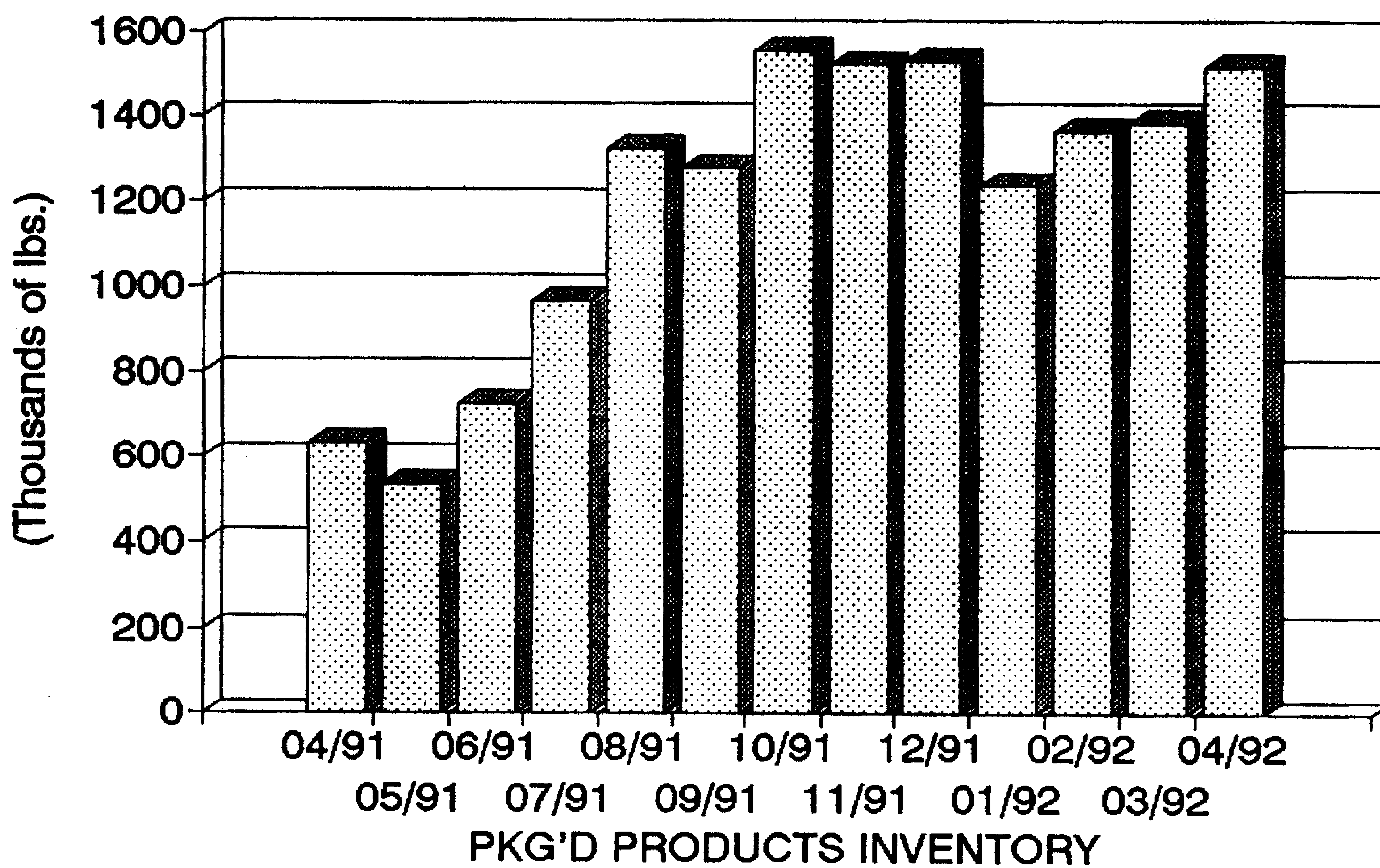
								Sua					
								121,850					

								Sua					
								279,210					

VAB.0001189308

FLEXIBLE & RIGID OFF-GRADE

APRIL '91 THRU APRIL '92



LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during April.

B. Customer Contacts

AT&T audited the plant on 4/21 and 4/22. There were no unacceptable items found. A formal report is expected in May.

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

4/06 Flexible Technologies, Abbeville, SC

The customer complained of a late delivery of 57121 WC compound. Material was delivered late in the day instead of the morning when it was scheduled.

4/06 AT&T, Omaha, NE

The customer complained of minor contamination from 34862 compound on their screen pak. The contamination was analyzed to be an agglomerate of lead and aluminum trihydrate undispersed in the compound.

4/06 Tenex, Elk Grove, IL

The customer complained of a late delivery of 18033 compound by forty-eight hours after a two-week order lead time.

4/06 Royalite, Warsaw, IN

The customer complained of a miscommunication of a change in the delivery time of a shipment of 5305 in bags.

4/16 Wexford International, Houston, MS

The customer complained of four wet dry blend overs boxes shipped to them.

LABORATORY - Continued

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

04/21 Rollex, Elk Grove, IL

The customer complained of RP-23 WHT 120 plating out during processing. The eight boxes returned showed that the fusion time was longer than the control using new conditions on the lab Brabender developed by the TS lab.

04/27 Northwire, Osceola, WI

The customer complained of small specks on wire insulation and lighter color in 38601 BLK compound. As a result of this complaint, the lab will test the color of all compounds, and specifications will be set after enough data has been collected.

04/28 Intex, Corinth, MS

The customer complained of high contamination in a railcar of 5385 and 5305. A trip was planned to Intex in May to develop and revise specifications for these two products.

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Vycom	RP-461 WHT 110	Color	1 H/T

E. RVCN 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 RVCN during the month of April, 1992.

	<u>Reactor</u> <u>Slurries</u>	<u>Dryer</u>	
		<u>5265</u>	<u>5305</u>
Number of Samples	926	23	82
Average RVCN, ppm	55	0.111	0.203

LABORATORY - Continued**F. RVCM of Shipment Samples**

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

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5225	0	0
5265	41	0.079
5305	132	0.087
5325	0	0
5385	55	0.093
5395	1	0.006
5415	64	0.027
5416	0	0
5465	2	0.025
Debox	16	0.344
Pond	8	0.088
Dry Blend	6	0.017

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

	<u>5265</u>	<u>5305</u>	<u>5385</u>	<u>5415</u>
Bulk Density	1.50	0.50	0.98	1.38
Inherent Viscosity	1.20	0.67	0.80	0.74
(vs. 0.64 - 0.67)	0.30	----	----	----
(vs. 0.715 - 0.744)	----	0.42	----	----
"L" Color	5.92	1.89	2.33	2.67
"a" Color	8.00	4.50	----	----
"b" Color	6.67	3.50	2.17	1.89
% on Pan	1.89	1.11	3.33	2.60
(vs. 2% max.)	----	----	----	0.60
% thru 140	2.19	1.46	3.23	5.33
Hard Particles, Average				
5 Minutes	----	----	17	7
7 Minutes	----	----	4	2
Mets I.R.	----	----	----	4.36
(vs. 95% of Control)	----	----	----	2.22
Average Particle Size, Microns	145	143	172	178

LABORATORY - Continued

H. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>%</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	16.0	<0.30>	----	----
Color	178.4	<3.37>	53.4	<1.01>
Hard Particles	-----	-----	25.8	<0.49>
Contamination	-----	-----	7.2	<0.14>
Dicing	-----	-----	1.5	<0.03>
Mischarge	-----	-----	17.3	<0.33>
METS-IR	-----	-----	4.5	<0.09>
Totals	194.4	<3.67>	109.7	<2.08>

I. Rigid Compound Quality Summary

		<u>Rejections</u>	
		<u>M Lbs.</u>	<u><%></u>
Color		8.5	<0.11>
Total		8.5	<0.11>

SAMPLE SHIPMENTS
APRIL 1992

RESIN

Ship Date	Product	Amount	Customer	Ship Mode
4/01/92	5415	5 lbs. X 3	Leon Plastics	UPS
4/02/92	5415	10 lbs. X 2	Southwire Co.	UPS
4/13/92	5385	100 lbs.	Witco Corporation	UPS
04/22/92	Pond	2 lbs.	H. Heller & Co.	Airborne
04/23/92	5385	50 lbs.	Crane Plastics	UPS
04/24/92	5305	50 lbs.	Alcan Building Products	UPS
04/30/92	Debox	2 lbs. X 8	Keysor Century	Airborne
04/30/92	5395	10 lbs.	Builtrite Corporation	UPS
04/30/92	5325	10 lbs.	O'Sullivan Corporation	UPS
	5385	10 lbs.		
	5395	10 lbs.		
	5465	10 lbs.		
04/30/92	5415	10 lbs.	Polysar Rubber Corp.	UPS

COMPOUND

Ship Date	Product	Amount	Customer	Ship Mode
4/02/92	48451 BLK	100 lbs.	Standard Plaques Inc.	Airborne
4/05/92	46801 BLK	1500 lbs.	Flexible Technologies	CC
4/09/92	6085 BLK	2 lbs. X 2	T & T Marketing	UPS

A

SAMPLE SHIPMENTS
APRIL 1992

Page 2

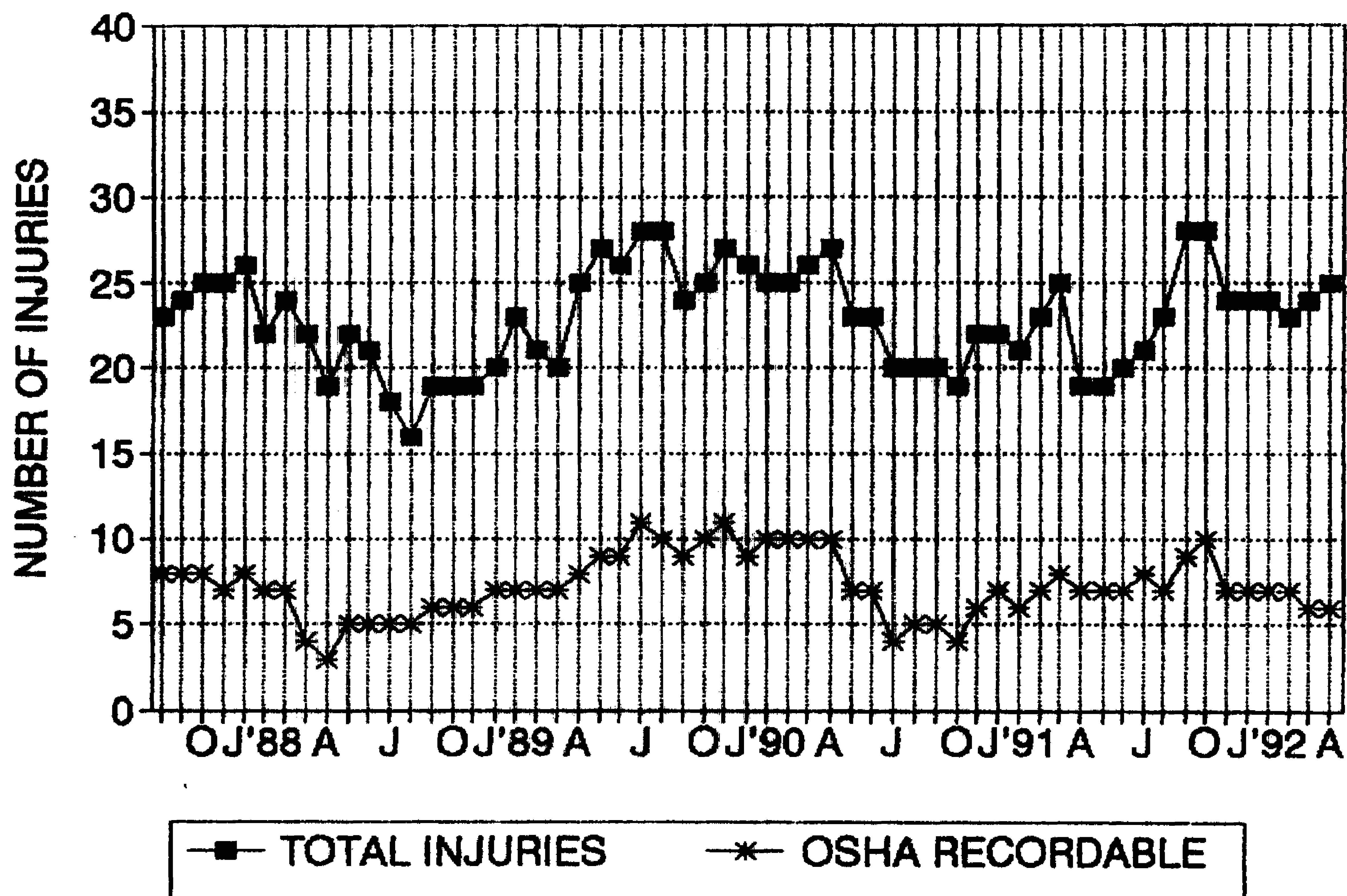
COMPOUND (Cont.)

Ship Date	Product	Amount	Customer	Ship Mode
4/20/92	58031 WTCL 328	300 lbs.	Hall Industries	UPS Air
04/24/92	48562 BLK	100 lbs.	Standard Plaque	UPS
	46234A BLK	100 lbs.		
	462-121B1 BLK	100 lbs.		
04/29/92	58162 NAT	50 lbs.	Florida Central Extrusions	Airborne

DRYBLEND

Ship Date	Product	Amount	Customer	Ship Mode
04/23/92	80273G WHT 110	5 lbs.	Vista R&D - Austin	UPS

ABERDEEN CHEMICAL PLANT INJURIES (Twelve Month Running Totals)



ABERDEEN ENERGY CONSUMPTION

