

File Copy

To: T. H. Huffman

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

Subject: ABERDEEN MONTHLY PROGRESS REPORT
MARCH, 1992

VISTA

Interoffice
Communication

Safety

There were four first aid injuries reported during March. At month end, the plant's employees completed 4,653 days (6,232,073 employee hours) since the last lost time injury.

<u>FY1992 Key Statistical Information</u>	<u>Mar.</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	40.5	211.7
Reactor Stream Factor, %	89.9	82.3
Resin Quality, % Prime	96.4	96.7
VCM Efficiency, Lbs./Lb.	1.0375	1.0351
Flexible Compound Production, MM Lbs.	5.3	30.7
Flexible Compound Quality, % Prime	97.0	96.5
Rigid Compound Production, MM Lbs.	2.0	11.9
Rigid Compound Quality, % Prime	99.2	97.4
Plasticizer Production, MM Lbs.	1.4	8.8
Plasticizer Quality, % Prime	83.6	78.7
Energy Use, (EUI, %)	< 11.6>	< 16.3>
Fixed Cost Variance, \$M	< 136.3>	< 321.4>
Variable Cost Efficiency Variance, \$M	< 64.9>	< 443.1>

Costs

Variable costs were near budget for the month.

Fixed costs were above budget in the MM&C and Miscellaneous areas. Included was a \$30M "warehouse loss" from the FY91 sale of excess propane at a price lower than it was purchased.

OMP

The Safety Supervisor's Natural Team completed writing six procedures for the Security Guards.

The Accounting Supervisor's Natural Team completed a project to put OASIS resource numbers on all packaged goods.

T. H. Huffman

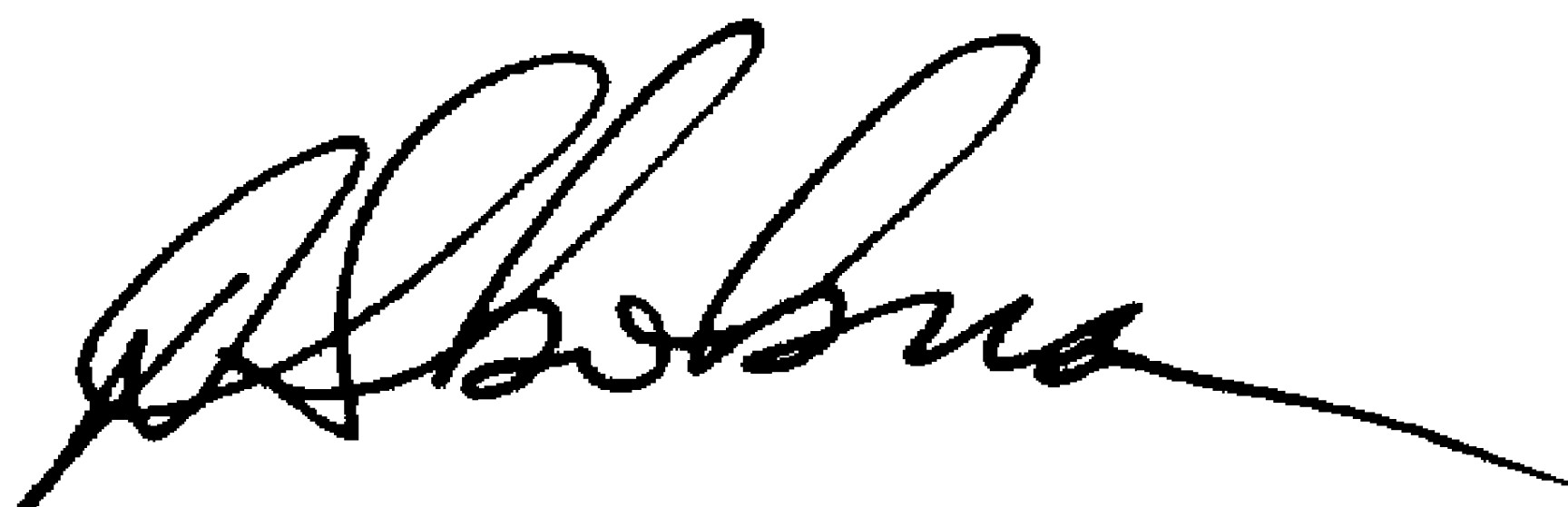
04/27/92

Aberdeen Monthly Progress Report - March, 1992

Page 2

Environmental

- Removal of 145 buried drums was completed. The drums and excavated soil still need to be disposed. Conoco is evaluating disposal options.
- Reclamation of resin from Pond 2 began this month.



D. C. Skokna
Plant Superintendent

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DISTRIBUTIONCOVER LETTERENTIRE REPORTHouston

J. D. Burns

X

R. T. Ferrell

X

T. H. Huffman

X

C. J. Matson

X

H. R. Flammer

X

R. R. Smith

X

B. J. Bean

X

R. H. Gerlach

X

R. D. Gamblin

X

C. R. Miller

X

Austin

R. L. Poe

X

H. J. Hall

X

Oklahoma City

H. D. Garrison

X

LCVCM Plant

P. D. Carrico

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>Mar.</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>
First Aid	4	8	9
OSHA Recordable	<u>0</u>	<u>3</u>	<u>6</u>
Total Injuries	4	11	15
Number of Restricted Workday Cases	0	2	4
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	3	3	2
Compound Operations	0	3	4
Maintenance	1	5	7
Laboratory	0	0	0
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>0</u>	<u>2</u>
Totals	4	11	15

Injuries by Type

Cuts and Abrasions	2	5	3
Eye Injuries	0	0	1
Burns	1	2	2
Bruises	0	0	3
Strains/Sprains	0	3	3
Stings	1	1	0
Other	<u>0</u>	<u>0</u>	<u>3</u>
Totals	4	11	15

Non-Occupational Injuries

Lost Workday Cases	0	5	6
Days Lost	0	37	110

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 - 4,653
Employee hours since - 6,232,073

On March 31, 1992, the employees of the Aberdeen plant completed 4,653 days with no lost time injury.

SAFETY - Continued

Topics for plant safety meetings during the month were "Off-the-Job Safety" and "The Safe Operation of Lift Trucks".

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	85	100.0	0	0
Lead	7	87.5	1	12.5
Total Particulates	2	100.0	0	0

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Maintenance	First degree burn of left hand (palm and fingers).
FA	Vinyl	Cut of index finger of right hand.
FA	Vinyl	Insect bite on right shoulder.
FA	Vinyl	Cut of index finger of right hand.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All plant natural teams continue to meet regularly and work on projects/team measures.

The Safety Supervisor's Natural Team completed the writing of six procedures for the Security Guards.

The Accounting Supervisor's Natural Team completed their project of putting OASIS resource numbers on all packaged goods.

The Warehouse/Purchasing Supervisor's Natural Team is working on a project to ensure the cross-training of all non-exempt employees.

The Stores Supervisor's Natural Team is working on a project to increase warehouse utilization.

The Compound Operations Supervisor's Natural Team is continuing work on the writing of operating procedures.

The Compound C-Shift Natural Team has begun charting of stock temperatures on the Farrell and Banbury.

The Synergy Team set April 23 as the date for their presentation of barriers to QMP.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>Mar., 1992 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	\$ 9.7	<\$461.8>	<\$452.1>
Flexible Compound	< 41.6>	< 65.1>	< 106.7>
Rigid Compound	5.8	< 16.1>	< 10.3>
Plasticizer	< 38.8>	5.8	< 33.0>
Total	<\$ 64.9>	<\$537.2>	<\$602.1>

PVC

Operation was essentially at budget.

Flexible Compound

The unfavorable variance was primarily due to development of new PLENEX formulations. Production of off-grade PLENEX was high during the month.

Rigid Compound

Operation was essentially at budget.

Plasticizer

Raw material consumption was above budget.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	<\$551.9>
■ Resin to Flexible Compound	< 62.6>
■ Resin to Rigid Compound	< 13.9>
■ Vent Dust Credit	< 11.7>
■ Electricity	13.8
■ Pond Resin Credit	25.9
■ Debox Resin Credit	32.3
■ Other Price Variances	30.9
Total	<\$537.2>

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	\$ 5.2
■ MM&C	< 39.7>
■ Miscellaneous	< 85.4>
■ TI&D	< 13.9>
■ Clearances	2.5
Total	<\$136.3>

COST VARIANCE - Continued

Payroll & Benefits

These costs were near budget.

MM&C

Activity was above budgeted levels.

Miscellaneous

	<u>Variance - \$M</u>
■ Unclassified	<\$17.3>
■ Operating Supplies	<\$13.9>
■ Shipping Costs	<\$13.5>
■ Wastehauling	<\$13.4>
■ Warehouse Loss	<\$30.0>

The warehouse loss was due to a FY91 sale of propane at a price lower than cost.

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

Safety

The Vinyl Department had three first aid cases recorded during March.

The monthly safety meetings were held on shift and coordinated by the shift supervisors.

General

1. DCS software enhancements were completed this month. These changes were made to eliminate controller card failures. Controller card performance was improved through software changes to reduce peak and average load.
2. Reactor condenser cleaning was completed on five reactors for improved cooling prior to the summer season.
3. The Ultraclean Team started up the Condenser Cleanwall Project on D-745. Preliminary results look promising.

	<u>Mar.</u>	<u>YTD</u>
- Production, MM Lbs.	40.5	211.7
- Daily Rate, M Lbs./C.D.	1306.5	1156.8
- Capacity Utilization Factor, %	98.6	87.3
- Total Reactor Charges	957.0	5056.0
- Charges/C.D.	30.9	27.6
- Reactor Stream Factor, %	89.9	82.3
- Rotary Dryer Stream Factor (#4-#8), %	94.1	89.4
- Fluid Bed Dryer Stream Factor, %	99.1	87.4
- Resin Quality, % Prime	96.4	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).	411.0
■ Maintenance downtime (D-700 seal replacement, D-745 condenser cleaning, D-743 condenser cleaning, D-600 seal replacement, D-742 condenser cleaning, D-745 rinse nozzle, D-745 cooling water valve, PM D-500 gearbox, D-500 condenser cleaning, D-600 catalyst ram valve, D-745 cleanwall program, and DCS software enhancement).	342.0

VINYL - Continued

<u>Dryer Time</u>	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	48.9
■ Maintenance downtime (activator problems, centrifuge repair).	34.7
■ Reactor limited production.	16.4

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

- Reactors D-600, D-742, D-743, and D-745 were hydroblasted. The safety disks were also changed on the annual program.
- Reactor seals were changed out from D-600 and D-700. Both failures have been linked to failures in the seal oil unit.
- The #8 Bird centrifuge has been changed out twice because of high vibration. The high vibrations were due to wear of the Trunion bushings.
- The #1 Bird centrifuge was installed after it came back in from repair on pond resin drying.
- The #7 dryer baghouse screw broke and was changed.
- Centrate heat exchanger tube bundle gaskets were changed due to leakage and the unit was acid-cleaned.
- The #4 and #5 VCM compressors were pulled out of service and replaced. The old compressors will be rebuilt for spares.
- The #5 Bird motor was replaced due to bad windings and bearings. The breaker was also changed when a wiring problem was discovered before the motor was pulled.

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

The Compound Department had no injuries in March.

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.

<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	1498	48	9174
Line III	31	3342	108	19367
Line V	15	<u>436</u>	<u>29</u>	<u>2171</u>
Total		5276	170	30712
% Prime		97.01		96.45
Capacity Utilization Factor		68.11		65.39

DowntimeHoursLine I

- Product Changes	84
- One Dicer Offline	133
- Miscellaneous Maintenance	56
- Quality	16

Line III

- Product Changes	72
- One Dicer Offline	25
- Miscellaneous Maintenance	17
- Quality	14

Line V

- Product Changes	39
- Quality	5
- Miscellaneous Maintenance	19

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	21	1959	93	11899
% Prime		99.15		97.41
Capacity Utilization Factor		41.19		37.96

Downtime

Hours

- Product Changes	49
- One Welex (Half Rates)	11
- Miscellaneous Maintenance	8
- Quality	35
- Waiting on Raw Materials	4

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	30	1377	46	8804
% Prime		83.62		78.68
Capacity Utilization Factor		61.14		58.97

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

- The Schenk filter was disassembled and cleaned.
- The #6 dicer motor bearings were bad; the motor was sent out for repair.
- Line I Sweco motor had bad bearings and was also sent out for repair.
- The exhaust valves on the #8 air compressor were replaced.
- The leak on the front of #2 boiler was repaired.

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

PROJECTS IN DEVELOPMENT - GENERAL

Resin Debottlenecking

Test runs for L-9 antifoam suspending agent were completed this month. Difficulties getting the correct particle size with L-9 ended the test run. A design basis meeting for debottlenecking the reactor recovery systems was held. The most economical design basis is for a third recovery system common to both units. Economics were reviewed of the closed dump design. The economic return for this option is borderline.

Staffing

Steve Carroll, an experienced hire, started work March 23. Mike Kane, Senior Process Engineer, transferred to the LCLAB Plant. Rory Sneed, Operations Engineer, was promoted to Senior Process Engineer. We had one new hire acceptance, Kelly Wood. He will start the first of June.

Water Treatment Plant

Work continues with the State for approval of start-up discharge. Work is continuing in developing a start-up plan. Construction continues steadily with completion expected in May.

Pond 2 Resin Reclaim

Reclaiming buried resin from Pond 2 began this month.

AT&T Scrap Recycle

The estimate for Class "A" design for permanent AT&T fluff recycle project was \$170M. This project is on hold until other wire recycling issues are resolved through the PVC recycling team.

Steam User Survey

A preliminary plant steam balance is complete. Rates of specific users have been measured. During the next month, engineering will try to determine peak load usage and frequency.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
MARCH REPORT

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

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u> <u>M\$</u>	<u>%</u>
Month	182.7	375.0	- 192.3	-51.2%
2nd Qtr.	899.0	1190.0	- 291.0	-24.4%
YTD	2118.0	2571.0	- 453.0	-17.6%

Actual Expenditures - Expenditures in February were \$192.3M less than the plant's budgeted expenditure forecast approved in the Second Quarter Budget submitted in November FY92.

Second quarter FY92 capital expenditures were 24.4% less than the plant's budgeted expenditure forecast approved in the Second Quarter Budget submitted in November FY92. It should be noted that this reported underrun does not take into account circumstances which were uncontrollable by the project group, i.e., delayed delivery of forktrucks accounted for \$40.0M, movement of personnel/project reassignment accounted for - Inert Gas Dryer \$25.0M, VCSM Project - control room modifications \$25.0M, and delayed billing on completed work on the Water Plant Project accounted for \$50.0M of the reported \$291.0M underrun. Incorporating these items into the actual data depicts that the plant underran the 2nd quarter forecasted capital expenditure by 14.4%.

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 April expenditures of \$249.0M.

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	MLC			6400	6690	-290	RENOVATION WORK IS UNDERWAY, TARGETED TO BE COMPLETED MID APRIL
C591	DRYBLEND SAMPLE LINE	GSN	02/92		50	49	1	TARGETED FOR FIELD CLOSURE 05-92
D511	VCM UNLOADING MODIFICATIONS	JBH			85	85	0	NEW FLEX HOSES & COUPLING SCHEDULED TO ARRIVE IN APR
D570	OLD MODULE RECOVERY SYSTEM ACCESS IMPRV.	JLW	01/92	03/92	60	63	-3	PROJECT HAS BEEN CLOSED TO FIELD - FINAL REPORT
D580	RECOVERY VACUUM PUMP PRESSURE RELIEF	JLW	01/92	03/92	64	69	-5	PROJECT HAS BEEN CLOSED TO FIELD - FINAL REPORT
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			91	91	0	PROJECT IS TARGETED TO BE IN OPERATION 04/92
D849	COMPOUND L-3 SEMI-BULK LEAD HANDLING	JBH			145	136	9	TEST RUN USING LEAD HAS BEEN CONDUCTED AND THE SYSTEM WORKED GREAT. TARGETED TO PLACE IN OPERATION 04-92
F551	DRYBLEND SCREENER REPLACEMENT	GSN			103	102	1	TARGETED TO BE PLACED IN OPERATION IN APRIL
F650	RVCM REDUCTION IN 5305 RESIN	ACW	01/92	03/92	90	79	11	PROJECT HAS BEEN CLOSED TO FIELD - FINAL REPORT
F660	5305 DECALCIFIED WATER SYSTEM	JLW			500	501	-1	TARGETED TO BE PLACED IN OPERATION IN APRIL
G561	WASTE WATER INFLUENT EQUALIZATION	GSN			80	78	2	PROJECT IS NEAR COMPLETION TARGETED OPERATION 04/92
G659	NEW DRYER BAGHOUSES	JLW	11/89		1550	1503	47	MINOR PUNCH LIST ITEMS REMAINING

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	(COVER)/ UNDER	STATUS
G839	PLANT WATER RECYCLE	GSN			165	174	-9	PROJECT IS COMPLETE, VMS ERRORS CORRECTED PROJECT WILL BE PLACED IN OPERATION IN APRIL
H500	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 85% COMPLETE STARTUP OPERATING PROCEDURES ARE CURRENTLY BEING EVALUATED.
H510	WEST INCINERATOR REPLACEMENT	JLW			460	462	-2	MINOR ITEMS REMAIN - WILL BE PLACED IN OPERATION - APR
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	PROCESS/MECHANICAL - EVALUATION/DESIGN IS IN PROGRESS
H620	EAST INCINERATOR REPAIR	JLW			415	415	0	MINOR ITEMS REMAIN - WILL BE PLACED IN OPERATION - APR
F611	PLENEX MOISTURE ANALYZER	JBH	01/92		14	13	1	TARGETED FOR FIELD CLOSURE 04-92
SUBTOTAL PRE-FISCAL 1992 PROJECTS					14553	15020	-467	

FISCAL 1992

FIRST FISCAL QUARTER

C522	DOLLINGER FILTER REPLACEMENT	GSN			34	19	15	PROJECT WILL BE COMPLETED & PLACED IN OPERATION IN APR.
H532	INERT GAS DRYER	GSN			28	28	0	INERT GAS DRYER HAS BEEN DELIVERED MECH. DESIGN IN PRGS
H502	MISCELLANEOUS CAPITAL	MLC			150	150	0	25 PROJECTS APRVD 14 COMPL 11 IN PRGRS 17 IN ESTIMATING

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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	
H512	FLUID BED DRYER IMPROVEMENTS	JBH			40	40	0	NEW VENTURI PLATE HAS BEEN DELIVERED TARGETED TO BE INSTALLED IN APRIL
L542	FURNITURE AND FIXTURES	MLC			12	12	0	1 COMPUTER AND 1 LASER PRINTER HAVE BEEN RECEIVED
	SUBTOTAL				264	249	15	
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 IS IN PROGRESS
F572	DECALCIFIED POLISHING FILTERS	JLW			60	60	0	PROJECT HAS BEEN COMPLETED TARGETED TO BE PLACED IN OPERATION IN APRIL
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	GSN			32	32	0	MECHANICAL DESIGN IS IN PROGRESS
D602	VCM TRUSS	JBH			40	42	-2	PROJECT HAS BEEN COMPLETED TARGETED TO BE PLACED IN OPERATION IN APRIL
	SUBTOTAL				240	242	-2	
	TOTAL FISCAL 1992 PROJECTS				504	491	13	

ENVIRONMENTAL - K. G. Akins

Water

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

The MDEQ had asked us to test our NPDES outfall for lead. The testing was completed and results submitted. Because there were no appreciable levels of lead present, the MDEQ will not include lead limits in future permits.

We asked the MDEQ for permission to put start-up water from the new water plant to a nearby storm sewer. The MDEQ said we would have to meet State water quality criteria which would require dechlorination of the water before discharging.

Drum Excavation

Excavation of the buried drums was completed in March. A total of 145 drums were removed from the excavation site. All of the drums had apparently been crushed during the burying. The drums contained plasticizer filter cake. Conoco is now evaluating their disposal options for the drums and contaminated soils.

Air Permit

A meeting was held with the MDEQ in March to review the latest air permit application. They now want us to submit information on emissions of particulate matter under 10 microns (PM₁₀) in size. The permit application will be revised and submitted in April.

Waste

Waste shipments during the month included:

- A bulk shipment of floor sweepings to Chemical Waste Management in Emelle, AL.
- A bulk shipment of waste oil to Fisher Industrial Services in Gadsden, AL.
- Thirty-two drums of plasticizer filter cake to Fisher Industrial Services in Gadsden, AL.

ENERGY CONSERVATION - J. R. Ganc

	<u>Mar.. 1992</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 15.0%>	< 18.8%>
B. Adjusted EUI	< 11.6%>	< 16.3%>
C. BTU/Lb. Product	2968.0	3040.0
D. Total Energy Consumption MMM BTU	147.3	804.6

II. Boiler Operation

	<u>Combustion Efficiency %</u>	
<u>Boiler</u>	<u>Mar.. 1992</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.7%	83.3%
No. 2	83.2%	83.1%
No. 3	82.9%	82.7%

HUMAN RESOURCE REPORT

MARCH, 1992

PERSONNEL - J. E. Beall

EMPLOYMENT

Victoria F. Turman - New Hire - Analyst/Maintenance
replacing Carolyn Wigginton.

William S. Carroll - New Hire - Process Engineer.

PROMOTIONS/TRANSFERS

Debra R. Lemmons - Analyst/Payroll promoted to Production
Scheduler replacing Linda Michels.

Timothy J. Arbeiter - Transferred from Quality Coordinator
to Manufacturing Chemist replacing David S. Cox.

Carolyn V. Wigginton - Analyst/Maintenance promoted to
Analyst/Payroll replacing Debra Lemmons.

RETIREMENTS

William Browning - Maintenance Department - Electrician "A"
- early retirement.

Artis B. Jones - Laboratory - Lab Technician "A" - early
retirement.

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
MARCH, 1992

<u>EMPLOYMENT</u>		<u>NEW HIRES</u>	<u>MO</u>	<u>FYD</u>
Salaried	78	Salaried/Transfer	2	2
Hourly	158	Hourly	0	0
Temporary	2	Temporary	0	0
SUB TOTAL	238	TOTAL	2	2
L.O.A.	1			
TOTAL	239			

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						MO.	FYD	
WAREHOUSE	15	9	0	60%	0	0	0	0
GENERAL PLANT	11	5	0	45%	0	0	0	0
MAINTENANCE	35	8	0	22.9%	0	1	3	17.2%
LABORATORY	23	5	2	21.7%	8.7%	0	0	0
COMPOUND	38	23	1	60.5%	2.6%	0	0	0
VINYL	31	10	1	32.3%	3.2%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	158	62	4	39.2%	2.5%			
SALARIED	78	7	18	9.0%	23.1%			

<u>APPLICATIONS</u>	<u>No.</u>	<u>%</u>	<u>PLANT TURNOVER</u>	<u>No</u>	<u>%</u>
Month	0	0	Hourly Month	2	2.6
FYD	0	0	FYD	4	5.0%
Minority	0	0	Salaried Month	0	0
Female	0	0	FYD	1	2.6%

Printed
4/07/92

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	1600.00	123.75	7.73	0.00	0.00	24.00	1.50	0.00	0.00	12.00	0.00	2.25	216
GENERAL HELPERS	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILITY	804.00	36.75	4.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120
MAINTENANCE	5477.25	661.00	12.07	0.00	0.00	161.50	2.95	48.00	0.00	96.00	64.00	6.75	1928
QC LAB	3378.50	120.25	3.56	0.00	0.00	121.50	3.60	12.00	0.00	48.00	48.00	6.79	644
JANITORS	376.00	2.00	.53	0.00	0.00	.50	.13	0.00	0.00	0.00	0.00	.13	48
WAREHOUSE	1347.25	167.25	12.41	0.00	0.00	4.25	.32	0.00	0.00	48.00	40.00	6.85	136
STORES	360.00	4.50	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	120
DEVELOPMENT LAB	1000.00	84.50	8.45	0.00	0.00	2.25	.23	0.00	0.00	0.00	0.00	.23	24
DRY BLEND	1245.00	71.25	5.72	0.00	0.00	10.00	.80	0.00	0.00	0.00	0.00	.80	180
COMPOUND	7005.00	623.75	8.90	0.00	0.00	66.75	.95	24.00	0.00	72.00	0.00	2.32	1372
VINYL	6595.00	1177.50	17.85	0.00	0.00	547.75	8.31	12.00	0.00	48.00	1468.00	31.47	960
PLASTICIZER	946.00	47.75	5.05	0.00	0.00	27.00	2.85	0.00	0.00	0.00	0.00	2.85	376
Total Plant =====>	30174.00	3120.25	10.34	0.00	0.00	965.50	3.20	96.00	0.00	324.00	1620.00	9.96	6124

Pay Period ending March 29, 1992

3-34-92/3-29-92

VAB.0001189339

Printed
4/07/92

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	3820.00	279.75	7.32	0.00	0.00	48.00	1.26	0.00	0.00	12.00	0.00	1.57	324
GENERAL HELPERS	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
UTILITY	1932.00	279.50	14.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168
MAINTENANCE	13555.50	1687.75	12.45	0.00	0.00	245.00	1.81	96.00	0.00	96.00	128.00	4.17	2624
QC LAB	8119.75	389.00	4.79	0.00	0.00	184.00	2.27	24.00	0.00	96.00	96.00	4.93	1048
JANITORS	927.50	32.75	3.53	0.00	0.00	1.00	.11	0.00	0.00	0.00	0.00	.11	56
WAREHOUSE	3219.75	431.25	13.39	0.00	0.00	8.50	.26	0.00	0.00	48.00	80.00	4.24	192
STORES	872.00	9.00	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	168
DEVELOPMENT LAB	2373.75	173.50	7.31	0.00	0.00	4.50	.19	0.00	0.00	0.00	0.00	.19	48
DRY BLEND	2861.00	131.25	4.59	0.00	0.00	14.00	.49	0.00	0.00	0.00	0.00	.49	336
COMPOUND	16840.25	1428.25	8.48	0.00	0.00	127.50	.76	48.00	0.00	72.00	0.00	1.47	1992
VINYL	16084.50	2583.25	16.06	0.00	0.00	723.50	4.50	24.00	0.00	48.00	2044.00	17.65	1392
PLASTICIZER	2171.00	202.00	9.30	0.00	0.00	50.00	2.30	0.00	0.00	0.00	0.00	2.30	584
Total Plant =====>	72817.00	7627.25	10.47	0.00	0.00	1406.00	1.93	192.00	0.00	372.00	2348.00	5.93	8932

Pay Period ending March 29, 1992

1-6-92/3-29-92

ADMINISTRATIVE SERVICES - D. A. Barclay

Safety

There were no reportable safety instances this month.

Quality

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

Futures

	<u>MTD</u> <u>Gain/(Loss)</u>	<u>YTD</u> <u>Gain/(Loss)</u>
Natural Gas	\$279.73	<\$33,610.00>

Statistics

<u>Processed</u>	<u>Month</u>	<u>FY92</u> <u>Y.T.D.</u>
Processed Invoices	1192	6830
Working Fund Checks Written	14	102
Cost Savings Through Bid Process	\$2867.60	\$20753.19
Raw Material Purchase Orders Issued	80	531
MRO/AFE Purchase Orders Issued	191	1168
Spare Parts Purchase Orders Issued	228	1168

Packaged Finished Goods Ending Inventory

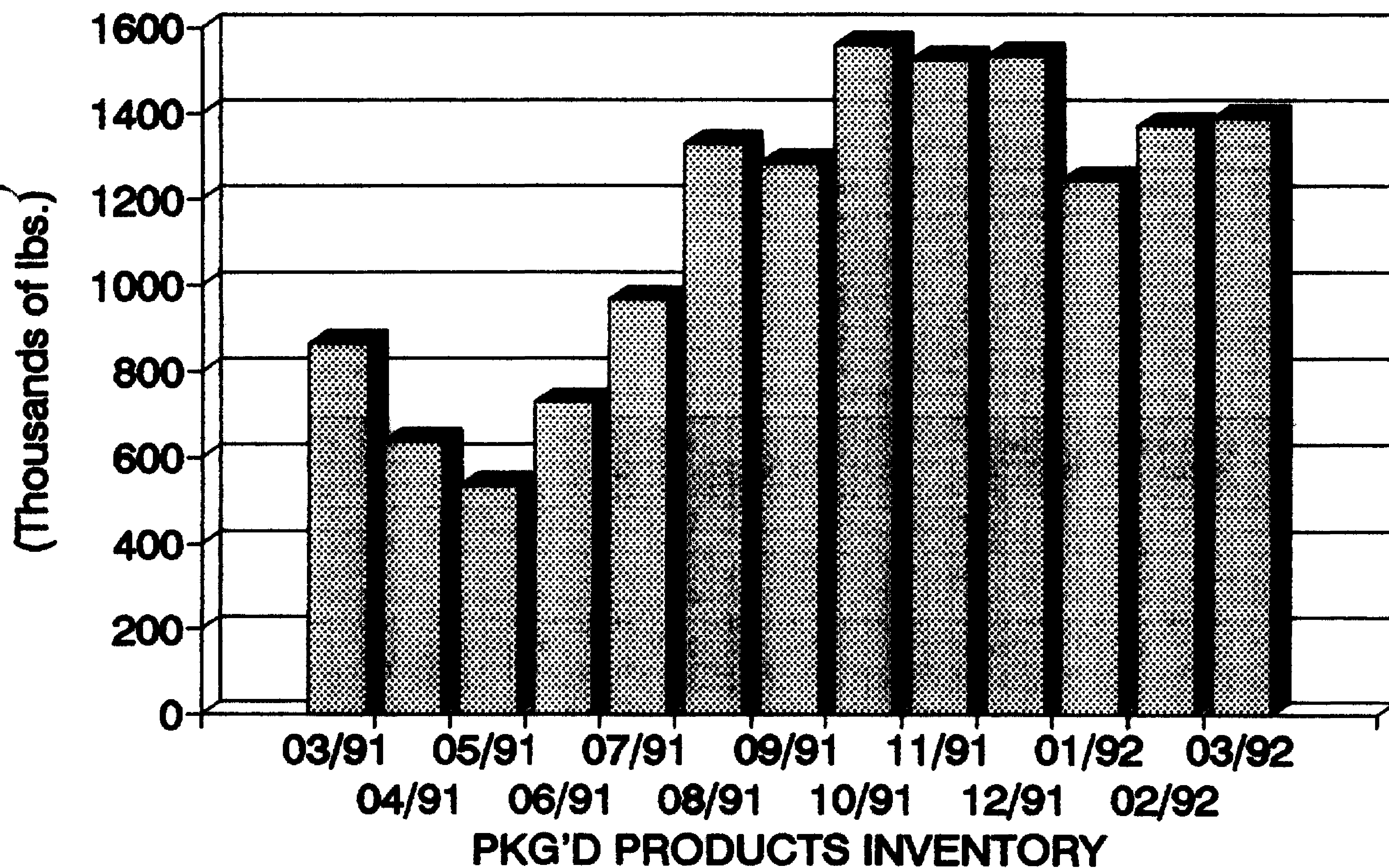
	<u>Feb... '91</u>	<u>Mar... '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	4,291,913	3,626,224	<665,689>	<15.51>
PLENEX	129,476	144,775	15,299	11.82
Compound Off-Grade (BC)	420,012	367,114	< 52,898>	<12.59>
Compound Off-Grade (H)	159,135	218,074	58,939	37.04
Millscrap	210,612	271,872	61,260	29.09
Dry Blend "A" Grade	709,511	495,345	<214,166>	<30.19>
Dry Blend Offgrade	269,678	286,639	16,961	6.29
Resin Type I	1,131,050	1,521,450	390,400	34.52
Resin Type "BC"	100	100	0	0.00
Vacuum Dust	<u>112,085</u>	<u>141,091</u>	<u>29,006</u>	<u>25.88</u>
Total Packaged W/house	7,433,572	7,072,684	<360,888>	< 4.85>

Bulk Finished Goods Ending Inventory

	<u>Feb... '91</u>	<u>Mar... '92</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	1,438,084	641,591	< 796,493>	<55.39>
Compound Offgrade	0	0	0	0.00
Dry Blend "A" Grade	2,431,602	1,519,735	< 911,867>	<37.50>
Dry Blend Offgrade	790,510	790,510	0	0.00
Resin "A" Grade	12,685,666	10,352,795	<2,332,871>	<18.39>
Resin Offgrade	<u>1,982,750</u>	<u>1,606,650</u>	<u>< 376,100></u>	<u><18.97></u>
Total	19,328,612	14,911,281	<4,417,331>	<22.85>

FLEXIBLE & RIGID OFF-GRADE

MARCH '91 THRU MARCH '92



ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
MARCH 1992

09:55 AM
09-Apr-92

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	21,770,430	22,123,160	0	112,635,790	99,881,050	0
RESIN-PACKAGED	696,401	300,650	0	2,916,107	1,350,150	0
FLEXIBLE COMPOUND-BULK	213,420	2,365,200	0	1,089,020	12,330,800	0
FLEXIBLE COMPOUND-PACKAGED	4,050,816	0	0	18,032,237	189,175	0
NEW BUSINESS	19,648	0	0	98,364	0	0
RIGID COMPOUND-BULK	2,499,240	373,950	0	6,128,150	3,999,300	0
RIGID COMPOUND-PACKAGED	427,176	0	0	2,480,064	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	316,850	0	81,300	2,941,890	917,400
TOTAL	29,677,131	25,479,810	0	143,461,032	120,868,215	917,400

-SHIPMENTS BY MODE-				
BULK:	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
MARCH				
RESIN	192	16	29	237
FLEXIBLE COMPOUND	14	0	5	19
RIGID COMPOUND	11	0	21	32
PLASTICIZER	2	0	0	2
TOTAL MARCH	219	16	55	290
YTD				
RESIN	942	85	229	1,256
FLEXIBLE COMPOUND	72	0	33	105
RIGID COMPOUND	42	3	75	120
PLASTICIZER	19	0	11	30
TOTAL YTD	1,075	88	348	1,511

PACKAGED:					
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS
MARCH					
RESIN	6	27	0	0	2
FLEXIBLE COMPOUND	23	106	0	0	8
RIGID COMPOUND	1	16	0	0	0
PLASTICIZER	0	0	0	0	0
TOTAL MARCH	30	149	0	0	10
YTD					
RESIN	19	124	0	0	3
FLEXIBLE COMPOUND	134	482	0	0	16
RIGID COMPOUND	10	74	0	0	1
PLASTICIZER	0	0	0	0	0
TOTAL YTD	163	680	0	0	20

CC: DAB,TLC,AEV,JRF

VAB.0001189343

04/01/9

DEEN CHEMICAL PLANT
PRODUCT RETURNS
MARCH 1992

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR #	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
03/19/92	CENTRI-LIFT	OK, CLAREMORE	CHPD	10438	34431 NAT	12507	BOXES	4,394	02091	03/08/92	0007952-000		POSSIBLE CONTAMINATION-LOW NETS
							Sum	4,394					
03/30/92	CHELSEA BUILDING	PA, OAKMONT	DB	16530	489-1490 WHT144 42R26		BOXES	1,076	02092	02/28/92	0007545-000		DID NOT MEET CUST NEEDS
03/30/92	CHELSEA BUILDING	PA, OAKMONT	DB	16530	489-1490 WHT144 15608		BOXES	1,165	02092	?	?		PROD'D PREMIERE-DID NOT MEET CUST NEEDS
							Sum	2,241					
03/03/92	GENCORP	MS, COLUMBUS	CHPD	14671	6085 BLK	52807	BOXES	200	02088	01/27/92	0006274-000		DEL'D & RET'D 1/27/92 BY FRED WILLIAMS
							Sum	200					
03/09/92	HOLM INDUSTRIES	AL, HARTSELLE	CHPD	16532	H211107 WHT	12R11	BOXES	1,415	02089	02/12/92	0007575-000		ODOR PROBLEMS
							Sum	1,415					
03/18/92	NORTHWIRE	MI, OSCEOLA	CHPD	10470	34551 NAT	32R05	BOXES	2,762	02090	02/14/92	0007062-000		GRAINY SURFACE
							Sum	2,762					
03/31/92	VISTA/CHEM LEANAR	PA, TAYLOR	DB	10661	RP-421 WHT110	VIPX45704 BULK		141,300	02052	01/14/92	0003404-007		IMPROPERLY STABILIZED
							Sum	141,300					
							Sum	152,312					

VAB.0001189344

LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during March.

B. Customer Contacts

Jim Edwards, Steve Hillman and Mike Quackenbush visited Vycom to discuss RP-421 quality issues and the surface appearance of rigid sheet.

Jim Edwards and John Olson visited Sunbeam in Bay Springs, MS to discuss voids in wire made with Vista compound and metal and paper contamination issues.

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

03/03 Northwire, Osceola, WI

The customer complained rough, sandy surface during extrusion of 34551. Aberdeen Q.C. could not find any problems with the two returned boxes of product. R&D is investigating.

3/13 Premiere, Jeffersontown, KY

The customer complained of broken bags of 5325 resin in a truck shipment.

3/13 Sunbeam Home Comfort, Bay Springs, MS

The customer complained of voids in the surface of three conductor extruded cords made with 38931 compound. Investigation of the wire showed the voids were formed by undispersed TiO_2 and some were formed by something volatile like water. Steps have been taken in Aberdeen to help eliminate the undispersed TiO_2 problem.

03/19 Essex, Arcola, IN

The customer complained that a railcar of 5415 arrived with four hatches open.

LABORATORY - Continued

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

03/20 Sunbeam Home Comfort, Bay Springs, MS

A trial of 35852 compound at the Bay Springs plant showed the compound had a lot of fines and streamers which resulted in a less than optimum surface to the wire. This material was made on Line III.

03/22 REKO, Hilton Head, SC

The customer complained of contamination in Black MSP80 that clogs their screen paks. The contamination was "blowing agent", rigid compound and miscellaneous "junk".

03/23 Master Halco, Olney, IL

The customer complained of a late truck delivery of 45541 NAT compound.

03/26 Abitibi, Middlebury, IN

The customer complained of a late truck delivery of 5385 resin.

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Formtech	RP-91 WHT 110	Color	1 H/T

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 March, 1992.

	<u>Reactor Slurries</u>	<u>Dryer</u>	
		<u>5265</u>	<u>5305</u>
Number of Samples	961	38	73
Average RVCM, ppm	59	0.240	0.271

LABORATORY - Continued

F. RVCM of Shipment Samples

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

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5225	22	1.608
5265	54	0.094
5305	99	0.102
5325	4	0.783
5385	65	0.209
5395	16	0.154
5415	85	0.030
5416	0	0
5465	4	0.018
Debox	21	0.207
Pond	10	0.058
Dry Blend	6	0.043

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

	<u>5225</u>	<u>5265</u>	<u>5305</u>	<u>5385</u>	<u>5395</u>	<u>5415</u>
Bulk Density	2.56	0.88	0.43	1.02	1.33	1.45
Inherent Viscosity	0.85	1.81	1.00	0.55	0.48	1.11
(vs. 0.64 - 0.67)	----	0.19	----	----	----	----
(vs. 0.715 - 0.744)	----	----	1.00	----	----	----
"L" Color	1.44	4.11	2.47	2.75	2.33	3.25
"a" Color	2.50	8.67	4.67	----	----	----
"b" Color	2.50	7.00	3.50	2.17	2.33	6.00
% on Pan	0.38	1.76	1.10	1.86	3.08	3.33
(vs. 2% max.)	----	----	----	----	----	0.83
% thru 140	0.85	1.84	1.46	2.26	3.33	5.33
Hard Particles, Average						
5 Minutes	----	----	----	30.00	6.00	8.00
7 Minutes	----	----	----	13.00	2.00	2.00
Mets I.R.	----	----	----	----	3.24	4.69
(vs. 95% of Control)	----	----	----	----	----	2.49
Average Particle Size, Microns	150	146	145	166	155	176

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	----	-----	1.6	<0.03>
Specific Gravity	----	-----	3.2	<0.06>
Color	45.0	<0.82>	24.3	<0.44>
Hard Particles	----	-----	68.4	<1.25>
Contamination	----	-----	93.9	<1.72>
Dicing	----	-----	7.8	<0.14>
Cross-Contamination	----	-----	1.6	<0.03>
Streamers	----	-----	7.5	<0.14>
METS-IR	----	-----	6.0	<0.11>
Totals	45.0	<0.82>	214.3	<3.92>

I. Rigid Compound Quality Summary

There were no rejections for this month.

SAMPLE SHIPMENTS
MARCH 1992

RESIN

Ship Date	Product	Amount	Customer	Ship Mode
03/09/92	5415	2000 lbs.	Trioxide Canada, Inc.	CPU
03/10/92	5415	50 lbs.	Akzo Chemical	UPS
03/16/92	5415	50 lbs.	Sarnafil	UPS
03/17/92	5305	2 lbs. X 3	Keysor Century	UPS
03/19/92	5305	2 lbs.	American Art Clay Co.	UPS
	5385	2 lbs.		
	5415	2 lbs.		
3/19/92	5225	5 lbs.	Electrocal	Airborne
	5305	5 lbs.		
	5325	5 lbs.		
	5385	5 lbs.		
03/24/92	5385	50 lbs.	Gen-Corp	Airborne
	5415	50 lbs.		
03/26/92	5385	25 kg.	TECHNIPLAST (Dom. Republic)	Airborne
03/27/92	5265/5305 OG	1 lb.	Global Products	Airborne
03/30/92	5225	3 lbs.	PCI Industries	UPS

COMPOUND

Ship Date	Product	Amount	Customer	Ship Mode
03/04/92	34501 NAT	10 lbs.	Akzo Engineering Plastics	UPS
03/05/92	462-34-B1 BLK	3000 lbs.	Donnelly Corporation	CC
03/06/92	58162 BLK	100 lbs.	Modified Tubular Products	UPS

SAMPLE SHIPMENTS
MARCH 1992

Page 2

COMPOUND (Cont.)

Ship Date	Product	Amount	Customer	Ship Mode
03/06/92	PLENEX 1250	100 lbs.	Remee Products Corp.	Airborne
03/10/92	55072 NAT	100 lbs.	Modified Tubular Products	UPS Air
03/10/92	6085 BLK	100 lbs.	ARCOS ELECTRICA S.A. de C.V.	Airborne
03/11/92	452-189B BLK	992 lbs.	Alenco	CC
03/11/92	PLENEX 1250	300 lbs.	Furon Company	CC
03/12/92	35852 NAT	200 lbs.	Sunbeam-Northern Co.	CC
03/13/92	6085 BLK	50 lbs.	J. V. Components	Airborne
03/16/92	PLENEX 1200 PLENEX 1250	400 lbs. 500 lbs.	Arizona Elec. Fabri. Inc.	CC
03/17/92	PLENEX 1200 PLENEX 1250	350 lbs. 200 lbs.	Lynn Electronics Corp.	CC
03/18/92	18033 CB 50	50 lbs.	Fiberchem (Denver, CO)	Airborne
03/18/92	18033 CB 50	50 lbs.	Fiberchem (Wheatridge, CO)	Airborne
03/19/92	6085 BLK	100 lbs.	ALAMBRES DOMINICANOS C. POR	Airborne
03/20/92	27251 BLK	50 lbs.	Emerald Electronics	Fed. Expres
03/23/92	27251 BLK 35852 GRY 562	500 lbs. 500 lbs.	Packard Electric	CC
03/23/92	PLENEX 1275	100 lbs.	Remee Products Corp.	Airborne
03/24/92	PLENEX 1200 PLENEX 1250	100 lbs. 150 lbs.	Ideal Wire Products Inc.	CC
03/25/92	MSP 80	50 lbs.	J. V. Components	Airborne

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SAMPLE SHIPMENTS
MARCH 1992

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COMPOUND (Cont.)

Ship Date	Product	Amount	Customer	Ship Mode
03/26/92	PLENEX 1275	100 lbs.	Teledyne Thermatics Inc.	UPS
03/27/92	PLENEX 1200	100 lbs.	Comm-Scope Company	UPS
03/27/92	6085 BLK	50 lbs.	Bazflex Canada Ltd.	Airborne
03/31/92	PLENEX 1250	300 lbs.	Eastman Wire & Cable	Burlington
	PLENEX 1250 NAT 734	300 lbs.		

DRYBLEND

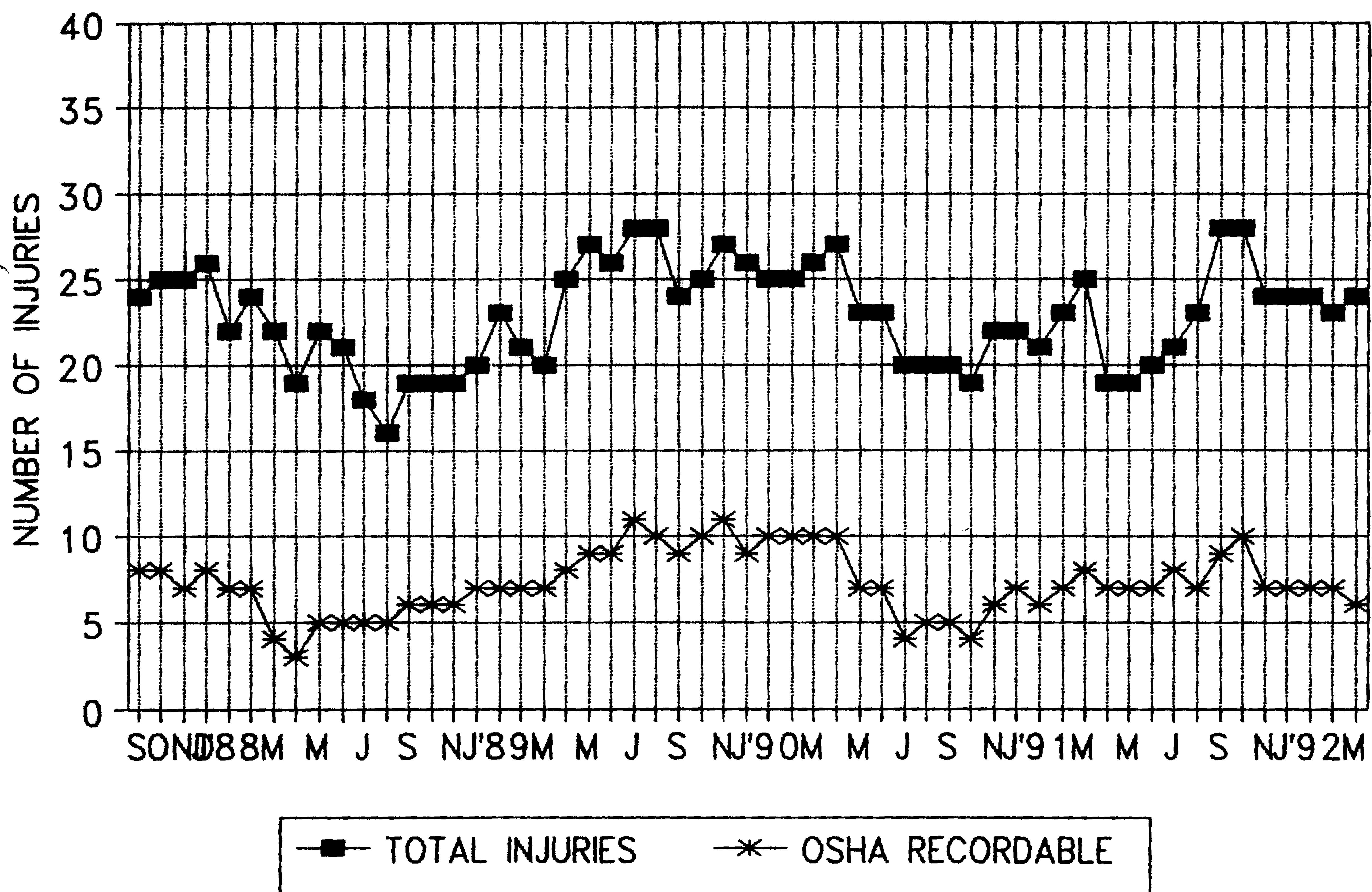
Ship Date	Product	Amount	Customer	Ship Mode
03/02/92	Offgrade	2 lbs.	H. Heller & Co., Inc.	Airborne

OTHER

Ship Date	Product	Amount	Customer	Ship Mode
3/19/92	108 P	1 gal.	Penn Color, Inc.	UPS
	Halbase 10EP	2 lbs.		

ABERDEEN CHEMICAL PLANT INJURIES

(Twelve Month Running Totals)



ABERDEEN ENERGY CONSUMPTION

