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To: T. H. Huffman

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

Interoffice
Communication

Subject: ABERDEEN MONTHLY PROGRESS REPORT
FEBRUARY, 1992

VISTA

Safety

There was one OSHA recordable (MTO) injury reported during February. A mechanic suffered a laceration on his forehead when he was struck by a bearing race. At month end, the plant's employees have worked 4,622 days (6,184,610 employee hours) since the last lost time injury.

FY1992 Key Statistical Information

	<u>Feb.</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	36.7	169.4
Reactor Stream Factor, %	89.6	80.8
Resin Quality, % Prime	96.2	96.7
VCM Efficiency, Lbs./Lb.	1.0393	1.0345
Flexible Compound Production, MM Lbs.	4.4	25.4
Flexible Compound Quality, % Prime	94.4	96.3
Rigid Compound Production, MM Lbs.	1.5	9.9
Rigid Compound Quality, % Prime	96.4	97.1
Plasticizer Production, MM Lbs.	1.5	7.4
Plasticizer Quality, % Prime	78.8	77.7
Energy Use, (EUI, %)	< 14.8>	< 17.4>
Fixed Cost Variance, \$M	120.1	< 185.1>
Variable Cost Efficiency Variance, \$M	51.2	< 448.5>

Operations

Resin production was good during the month.

Orders continue at a good rate in flexible compound causing the Line I and Line III schedules to be tight most of the month. Dry blend ran at low rates. The new dry blend sample line began operation.

Costs

Variable costs were near budget. Fixed costs were favorable due to no holiday and overtime lower than normal.

T. H. Huffman

03/23/92

Aberdeen Monthly Progress Report - February, 1992

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QMF

- Sunbeam, a flexible compound customer, visited the plant for a tour and familiarization.
- Nibco, a resin customer, presented our employees the Nibco Certified Supplier Award.

Environmental

One NPDES permit violation for high pH occurred when boiler blowdown overflowed to a storm sewer causing the pH at storm-water outfall 003 to rise to 10.8 which exceeds the permit maximum of 9.0.



D. C. Skokna
Plant Superintendent

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H. D. Garrison

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LCVGM Plant

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X

LCCP Plant

J. Friend

X

LCLAB Plant

J. W. Ware

X

Baltimore

L. R. Bauer

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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>Feb.</u>	<u>Fiscal</u> <u>Y.T.D. 1992</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>
First Aid	0	4	7
OSHA Recordable	<u>1</u>	<u>3</u>	<u>5</u>
Total Injuries	1	7	12
Number of Restricted Workday Cases	0	2	3
Number of Lost Workday Cases	0	0	0

Injuries by Department

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

Injuries by Type

Cuts and Abrasions	1	3	3
Eye Injuries	0	0	0
Burns	0	1	2
Bruises	0	0	2
Strains/Sprains	1	3	3
Stings	0	0	0
Other	<u>0</u>	<u>0</u>	<u>2</u>
Totals	1	7	12

Non-Occupational Injuries

Lost Workday Cases	1	5	5
Days Lost	4	37	78

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 - 4,622
Employee hours since - 6,184,610

On February 29, 1992, the employees of the Aberdeen plant completed 4,622 days with no lost time injury.

SAFETY - Continued

The topic for plant safety meeting during the month was "Respirator Training".

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	72	97.3	2	2.7
Lead	9	81.8	2	18.2
Total Particulates	4	100.0	0	0

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
MT	Maintenance	Contusion and laceration of forehead.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All plant natural teams continue to work on projects and team measures. Some highlights for the month of February are:

- The Plant Manager's Natural Team established action steps to increase the use of SPC in vinyl and compound production.
- The Compound Operations Superintendent's Natural Team continued work on their project to reduce the amount of off-grade produced. A weekly quality meeting with Q.C. personnel has been established.
- The Compound Operations Supervisor's Natural Team is writing charge procedures. Fifteen procedures have been written to date.
- Compound D-Shift Natural Team is working to upgrade the central vacuum system.
- The Mechanical Department Natural Team is updating the weekend duty manual.
- The Maintenance I&E Natural Team is preparing a presentation to management on their project to improve the lighting in V-11 dryer building.
- The Synergy Team is preparing their presentation to management on barriers to QMP and natural team participation.

Sunbeam Home Comfort visited the Aberdeen Plant on February 11. The primary purpose of the visit was to give Sunbeam and Vista attendees a better understanding of each other's companies, as well as afford the opportunity to discuss specific operational and business issues. Sunbeam purchases various flexible compounds for use in personal home products.

Nibco, Inc. visited the Aberdeen Plant on February 20 to present the Nibco Certified Supplier Award to the Aberdeen employees. Nibco purchases various molecular weight resins for use in the manufacture of PVC fittings and valves.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>Feb., 1992 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	<\$ 12.7>	<\$569.3>	<\$582.0>
Flexible Compound	59.3	< 81.6>	< 22.3>
Rigid Compound	< 4.3>	< 35.2>	< 39.5>
Plasticizer	8.9	15.9	24.8
Total	\$ 51.2	<\$670.2>	<\$619.0>

PVC

Efficiencies overall were near budget.

Flexible Compound

Raw material use was below budget.

Rigid Compound

Efficiencies were near budget.

Plasticizer

Efficiencies were near budget.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	<\$649.5>
■ Resin to Flexible Compound	< 42.3>
■ Resin to Rigid Compound	< 18.5>
■ Plasticizers	< 14.2>
■ Off-Grade Resin Credit	21.2
■ Pthallic Anhydride	26.3
■ Natural Gas	36.4
■ Other	< 29.6>
Total	<\$670.2>

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	\$ 73.2
■ MM&C	31.8
■ Miscellaneous	29.6
■ TI&D	< 15.1>
■ Clearances	0.6
Total	\$120.1

COST VARIANCE - Continued

Payroll & Benefits

Overtime was low and there were no holidays during the month.

MM&C

Activity was below budgeted level.

Miscellaneous

	<u>Variance - \$M</u>
■ Outside Professional Service	<\$20.3>
■ Unclassified	<\$24.8>
■ Operating Supplies	<\$13.7>
■ Rentals - Other	<\$12.1>
■ Shipping Cost	<\$11.2>

TI&D

FICA was \$10M unfavorable.

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

Safety

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

The monthly safety meeting was "Respirator Training".

General

1. D-742's agitator shaft broke during the poly mode. Shift personnel did an excellent job of controlling the reaction. The shaft was replaced. The broken shaft was sent off for stress and corrosion analysis.
2. Seventy-five hours of operational downtime were due to "no place to dump". Fluid bed maintenance and product changes caused this downtime.
3. Software enhancements were installed in early March to eliminate controller card failures that occurred in February. Changes to the software have reduced the peak and average load on the controller cards thus improving performance.

	<u>Feb.</u>	<u>YTD</u>
- Production, MM Lbs.	36.7	169.4
- Daily Rate, M Lbs./C.D.	1263.9	1113.9
- Capacity Utilization Factor, %	95.4	84.1
- Total Reactor Charges	865.0	4099.0
- Charges/C.D.	29.8	27.0
- Reactor Stream Factor, %	89.6	80.8
- Rotary Dryer Stream Factor (#4-#8), %	94.2	88.5
- Fluid Bed Dryer Stream Factor, %	95.1	85.1
- Resin Quality, % Prime	96.2	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).	447.0
■ Maintenance downtime (D-700 gearbox replacement, D-744 condenser cleaning, D-741 condenser cleaning, D-500 seal replacement, D-742 agitator shaft replacement, D-700 seal oil unit, D-700 rinse nozzle, D-745 rinse nozzle, D-741 steam stripping valve, PM D-744 gearbox, D-600 steam to jacket valve, D-741 temperature controller, and D-742 steam stripping valve).	274.0

VINYL - Continued

<u>Dryer Time</u>	% of Total <u>Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	38.1
■ Maintenance downtime (activator problems, centrifuge repair).	27.1
■ Reactor limited production.	34.8

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

- Reactor 500 seal failed after the seal oil pump failed. It was replaced and the seal was rebuilt for a spare.
- Reactor 700 gearbox and motor base were modified for a new style fluid coupling. While the reactor was down, the gearbox was rebuilt and the motor was sent out for preventive maintenance.
- Reactors 744 and 741 were isolated for condenser hydroblasting in an effort to improve quality control.
- "A" vacuum pump and "B" compressor in the Old Unit were taken out of service and repaired.
- The west fan gearbox on cooling tower 4B developed an oil leak which is suspected to be due to high vibration. The tower was shut down for the gearbox oil seal to be replaced.
- Two control valves and one manual valve were changed out of service in the Vinyl unit.

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

The Compound Department had no OSHA recordable injuries in February.

General

Orders are 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.

Sample production began on the new dry blend sample line this month.

<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	29	1418	49	7676
Line III	29	2757	95	16025
Line V	9	<u>253</u>	<u>28</u>	<u>1735</u>
Total		4428	153	25436
% Prime		94.38		96.34
Capacity Utilization Factor		56.02		64.84

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

- Product Changes	98
- One Dicer Offline	89
- Miscellaneous Maintenance	56
- Quality	15

Line III

- Product Changes	73
- One Dicer Offline	22
- Miscellaneous Maintenance	28
- Quality	31

Line V

- Product Changes	24
- Quality	10

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	24	1478	62	9940
% Prime		96.40		97.05
Capacity Utilization Factor		28.53		37.31

Downtime

Hours

- Product Changes	93
- One Welex (Half Rates)	60
- Miscellaneous Maintenance	25
- Quality	48
- Waiting on Raw Materials	7

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	27	1503	56	7427
% Prime		78.83		77.72
Capacity Utilization Factor		60.14		58.54

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

- The north nitrogen blower in the P-1 building was replaced. The blower was leaking by the flights.
- A leak in R-1 reactor coil was patched.
- The agitator seal on R-1 had to be replaced after the blades were sheared off the agitator. The resulting imbalance ruined the seal.
- The Schenk filter was broken down and re-assembled for cleaning.
- The spare lab mill was rebuilt for a spare.
- The "A" blender gearbox was pulled out of service to aid in troubleshooting. As it turned out, the motor was all that needed repair.
- The Line I Banbury gate switch was relocated to enhance temperature sensing.
- Compound quality teams requested the RPM indicator on Line III FCM be replaced and Line III speed indicators be calibrated. These items were completed.

COMPOUND - CONTINUED**Key Maintenance Work - Continued**

- Boiler controls were relocated to the new control room.
- The lagoon acid tanks were decommissioned for removal.
- The west biodisc pump was rebuilt.
- The #5 pond aerator gearbox and motor were rebuilt. Major repairs were required on the flotation structure.

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

PROJECTS IN DEVELOPMENT - GENERAL

Semi-Bulk Lead System

The semi-bulk lead system was tested using supersacks of lead after the initial successful test using Atomite (a filler). The test was stopped before the supersack was emptied because the scale controller microprocessor was operating erratically. A low quality power source was found to be the cause. The controller has subsequently been connected to the UPS system which feeds the dry blend silos. This power source is of much higher quality and reliability. The test will be completed when the production schedule allows.

Vinyl Debottlenecking

Baseline drying capacity of the rotary dryers is being determined by doing a series of tests. It seems that there are two issues currently. One is the air supply to the activators causing send times to be long (on some dryers), and the other is the ability to maintain stable feed to the dryer inlet. The study to measure plant steam usage has begun.

New Water Treatment Plant

Construction is progressing well with a startup date targeted for mid-May. The operating manual has been written and will be issued for review in late March with training still scheduled for April. One startup issue to be resolved is where the startup water will be routed. The most likely location, with preliminary approval by the State DEQ, is the stormwater outfall. Work is continuing to identify the startup plan as the startup phase will most likely be longer than a month.

Wastewater System Evaluation

Sampling and modeling of the wastewater system continues. R&D has spent a week at the plant helping identify and quantify the capabilities and shortfalls of the system. A theory which is being proposed at this point is that ponds 5 and 6 add some BOD to the stream, although they do take out more than they add. The BOD contribution comes from the biological species (algae and plankton) in the last two ponds.

Staffing

Current engineer staffing level is 8. One offer is still outstanding. Steve Carroll, an experienced hire, will begin in late March. Debbie Johnson will transfer to LCVCM in mid-March.

Plasticizer Expansion

Work is continuing on the Plasticizer Expansion Project. Scope of the project is to add a steam stripping column to increase capacity. Stripping alcohol outside the reactor reduces reactor cycle time. Column design is being optimized using computer simulations.

ABERDEEN CHEMICAL PLANT
MONTHLY PROGRESS REPORT
CAPITAL EXPENDITURE STATUS

M.L. CARTER
 FEBRUARY REPORT

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

	<u>ACTUAL</u>	<u>BUDGET</u>	<u>VARIANCE</u>	
			<u>M\$</u>	<u>%</u>
Month	410.3	488.0	- 77.7	-15.9%
2nd Qtr.	716.3	1190.0	- 473.7	-39.8%
YTD	1935.3	2571.0	- 635.7	-24.7%

Actual Expenditures - Expenditures in February were \$77.7M less than the plant's budgeted expenditure forecast approved in the Second Quarter Budget submitted in November FY92. Rainy weather and equipment delays on the Water Plant Project accounted for 95% of 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 current approved quarter forecast calls for 2nd quarter expenditures of \$1190.0M.

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
A649	VINYL CONTROL SYSTEM MODERNIZATION	MLC			6400	6690	-290	RENOVATION WORK IS UNDERWAY, TARGETED TO BE COMPLETED MID APRIL
C591	DRYBLEND SAMPLE LINE	GSM	02/92		50	49	1	PROJECT COMPLETE AND PLACED IN OPERATION
D511	VCM UNLOADING MODIFICATIONS	JBH			85	85	0	SNAPPY JOE VALVES INSTALLED, NEW FLEX HOSES HAD TO BE ORDERED TO FIT UP TO SNAPPY JOES DUE TO ARRIVE 03-92
D570	OLD MODULE RECOVERY SYSTEM ACCESS IMPRV.	JLW	01/92		60	63	-3	TARGETED FOR FIELD CLOSURE 03-92
D580	RECOVERY VACUUM PUMP PRESSURE RELIEF	JLW	01/92		64	69	-5	TARGETED FOR FIELD CLOSURE 03-92
D619	PROPANE AREA DELUGE SYSTEM	GSM	09/90	01/91	153	172	-19	PROJECT REQUIRES A SUPPLEMENTAL, DOCUMENTATION IN PRGRS
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 03-92
F551	DRYBLEND SCREENER REPLACEMENT	GSM			103	103	0	TARGETED TO BE PLACED IN OPERATION IN MARCH
F650	RVCN REDUCTION IN 5305 RESIN	ACW	01/92		90	79	11	TARGETED FOR FIELD CLOSURE 03-92
F660	5305 DECALCIFIED WATER SYSTEM	JLW			500	501	-1	TARGETED TO BE PLACED IN OPERATION IN MARCH
G6561	WASTE WATER INFLUENT EQUALIZATION	MLC			80	78	2	PROJECT IS NEAR COMPLETION TARGETED OPERATION 03/92
G659	NEW DRYER BAGHOUSES	JLW	11/89		1550	1503	47	MINOR PUNCH LIST ITEMS REMAINING

ACTIVE PRE-1992 CARRYOVER PROJECTS

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/UNDER	STATUS
G839	PLANT WATER RECYCLE	GSM			165	174	-9	PROJECT IS COMPLETE, WAITING FOR VMS ERRORS IDENTIFIED TO BE FIXED TO ENABLE PROJECT TO PLACED IN OPERATION.
H500	PLANT WATER SYSTEM	JBN			4000	4210	-210	CONTROL ROOM IS 97% COMPLETE, ALL BOILERS HAVE BEEN CONVERTED TO THE NEW CONTROL SYSTEM AND WORKING WELL. WATER PLANT CONSTR IS 80% COMPLETE - CHEMICAL FEEDERS BEEN DELAYED UNTIL APRIL WHICH HAS PUSHED START UP OF WATER PLANT BACK ACCORDINGLY.
H510	WEST INCINERATOR REPLACEMENT	JLV			460	461	-1	MINOR ITEMS REMAIN - WILL BE PLACED IN OPERATION - MAR
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	DESIGN IS IN PROGRESS
H620	EAST INCINERATOR REPAIR	JLV			415	415	0	MINOR ITEMS REMAIN - WILL BE PLACED IN OPERATION - MAR
F611	PLENEX MOISTURE ANALYZER	JBN	01/92		14	13	1	TARGETED FOR FIELD CLOSURE 04-92
SUBTOTAL PRE-FISCAL 1992 PROJECTS					14553	15020	-467	

FISCAL 1992

FIRST FISCAL QUARTER

H522	DOLLINGER FILTER REPLACEMENT	GSM			34	34	0	MECHANICAL DESIGN IS 95% COMPLETE, FILTERS HAVE BEEN DELAYED UNTIL LATE MARCH
H532	INERT GAS DRYER	GSM			28	28	0	INERT GAS DRYER HAS BEEN DELAYED UNTIL APRIL - MAY PIPING & ELECTRICAL DESIGN IS IN PRGS

VAB.0001189370

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/ UNDER	STATUS
H502	MISCELLANEOUS CAPITAL	MLC			150	150	0	23 PROJECTS APRVD 14 COMPL 9 IN PRGRS 15 IN ESTIMATING
H512	FLUID BED DRYER IMPROVEMENTS	JBH			40	40	0	DESIGN COMPLETE, NEW VENTURI PLATE DUE IN PLANT IN MAR
L542	FURNITURE AND FIXTURES	MLC			12	12	0	AFE HAS BEEN APPROVED
SUBTOTAL						264	264	0

SECOND FISCAL QUARTER

D552	LINE 111 CONDENSATE RETURN	ACV			28	28	0	MECHANICAL DESIGN IS IN PROGRESS
D562	P-1 EJECTOR RELOCATION	ACV			40	40	0	MECHANICAL DESIGN IS IN PROGRESS
F572	DECALCIFIED POLISHING FILTERS	JLV			60	60	0	PROJECT HAS BEEN COMPLETED TARGETED TO BE PLACED IN OPERATION IN MARCH
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	ACV			32	32	0	AFE HAS BEEN APPROVED
D602	VCM TRUSS	JBH			40	40	0	AFE HAS BEEN APPROVED DESIGN IN PROGRESS
SUBTOTAL						240	240	0
TOTAL FISCAL 1992 PROJECTS						504	504	0

APPROVED CAPITAL PROJECT STATUS

ABERDEEN CHEMICAL PLANT

MONTHLY PROGRESS REPORT

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AFE NUMBER	PROJECT TITLE	ENGR	PLACED IN OPERATION	CLOSED TO FIELD DATE	AFE AMOUNT	FOR/ACT TOTAL	(OVER)/ UNDER	STATUS
					15057	15524	-467	

GRAND TOTAL - ALL PROJECTS

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ENVIRONMENTAL - K. G. Akins

Water

There was one NPDES permit violation during the month of February. We exceeded the permit limitation for pH on February 19th for stormwater outfall 003 due to a wastewater bypass. Boiler blowdown overflowed to a storm sewer raising the pH to 10.8. Our permitted maximum pH is 9.

The annual NPDES inspection was conducted by the MDEQ on February 18th-19th. During the audit, the MDEQ informed us that our two existing permitted stormwater outfalls were sufficient and that no further work on stormwater testing/permitting was necessary. The MDEQ indicated the majority of pollutants that they would reasonably expect to find should be contained in our two existing outfalls. The MDEQ said we should identify other stormwater outfalls during our next permit renewal in 1996 and they would decide then if additional permitting is required.

Superfund Sites

We held a meeting with the Aberdeen-South Monroe County Chamber of Commerce, City of Aberdeen, and Monroe County officials on February 10th to discuss the results of the Superfund site sampling. We also discussed the upcoming drum removal and remediation project to be conducted by ENSR. This is scheduled to begin by early March. The third topic of discussion was the removal and recycling of resin from pond 2 also scheduled to begin in early March.

Waste

Waste shipments during the month included:

- A bulk shipment of empty lead/antimony bags to Chemical Waste Management in Emelle, AL.
- A bulk shipment of API sludge to Chemical Waste Management in Emelle, AL.

ENERGY CONSERVATION - J. R. Ganc

Feb.. 1992

Fiscal Y.T.D.

I. Energy Conservation Data

A. Unadjusted EUI	< 17.6%>	< 19.8%>
B. Adjusted EUI	< 14.8%>	< 17.4%>
C. BTU/Lb. Product	3054.0	3063.0
D. Total Energy Consumption MMM BTU	128.5	657.3

II. Boiler Operation

<u>Boiler</u>	<u>Combustion Efficiency %</u>	
	<u>Nov.. 1991</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.9%	83.2%
No. 2	83.5%	83.1%
No. 3	83.7%	82.7%

Conversion of all three boilers to the new control systems was completed during February.

HUMAN RESOURCE REPORT

FEBRUARY, 1992

PERSONNEL - J. E. Beall

EMPLOYMENT

None.

PROMOTIONS/TRANSFERS

Daniel E. Johnson - Lead Project Engineer transferred and promoted to Senior Project Engineer at the Lake Charles Chemical Plant.

David S. Cox - Manufacturing Chemist transferred to Research Chemist at R&D, Austin.

Michael R. Kane - Operations Engineer, Compound transferred to Senior Process Engineer.

Rory H. Sneed - Process Engineer transferred to Operations Engineer, Compound replacing Mike Kane.

Linda A. Michels - Production Scheduler promoted to Customer Service Representative (new position).

Jeffery Shields - Vinyl Lead Operator promoted to Vinyl Chief Operator.

RETIREMENTS

None.

TERMINATIONS/RESIGNATIONS

None.

TO/FROM LEAVE OF ABSENCE

None.

ABERDEEN PLANT**MONTHLY PERSONNEL REPORT****FEBRUARY, 1992**

<u>EMPLOYMENT</u>		<u>NEW HIRES</u>		<u>MO</u>	<u>FYD</u>
Salaried	76	Salaried/Transfer		0	0
Hourly	161	Hourly		0	0
Temporary	2	Temporary		0	0
SUB TOTAL	239	TOTAL		0	0
L.O.A.	1				
TOTAL	240				

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	36	8	0	22.2%	0	0	2	13.3%
LABORATORY	24	5	2	20.8%	8.3%	0	0	0
COMPOUND	38	23	1	60.5%	2.6%	0	0	0
VINYL	32	10	1	31.2%	3.1%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	161	62	4	38.5%	2.5%			
SALARIED	76	7	18	9.2%	23.7%			

<u>APPLICATIONS</u>	<u>No.</u>	<u>%</u>	<u>PLANT TURNOVER</u>	<u>No</u>	<u>%</u>
Month	0	0	Hourly Month	0	0
FYD	0	0	FYD	2	3.0%
Minority	0	0	Salaried Month	0	0
Female	0	0	FYD	1	3.2%

Printed
3/04/92

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

Department	Total S/T Hr	Overtime		Paid Absences							Long-term Disability	Total Abs % of S/T	Vacation
		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	2220.00	156.00	7.03	0.00	0.00	24.00	1.08	0.00	0.00	0.00	0.00	1.08	108
UTILITY	1128.00	242.75	21.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48
MAINTENANCE	8078.25	1026.75	12.71	0.00	0.00	83.50	1.03	48.00	0.00	0.00	64.00	2.42	696
QC LAB	4741.25	268.75	5.67	0.00	0.00	62.50	1.32	12.00	0.00	48.00	48.00	3.60	404
JANITORS	551.50	30.75	5.58	0.00	0.00	.50	.09	0.00	0.00	0.00	0.00	.09	8
WAREHOUSE	1872.50	264.00	14.10	0.00	0.00	4.25	.23	0.00	0.00	0.00	40.00	2.36	56
STORES	512.00	4.50	.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48
DEVELOPMENT LAB	1373.75	89.00	6.48	0.00	0.00	2.25	.16	0.00	0.00	0.00	0.00	.16	24
DRY BLEND	1616.00	60.00	3.71	0.00	0.00	4.00	.25	0.00	0.00	0.00	0.00	.25	156
COMPOUND	9835.25	804.50	8.18	0.00	0.00	60.75	.62	24.00	0.00	0.00	0.00	.86	620
VINYL	9489.50	1405.75	14.81	0.00	0.00	175.75	1.85	12.00	0.00	0.00	576.00	8.05	432
PLASTICIZER	1225.00	154.25	12.59	0.00	0.00	23.00	1.88	0.00	0.00	0.00	0.00	1.88	208
Total Plant >>>>>	42643.00	4507.00	10.57	0.00	0.00	440.50	1.03	96.00	0.00	48.00	728.00	3.08	2808

Pay Period ending February 23, 1992

VAB.0001189377

Printed
3/04/92

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	1284.00	88.25	6.87	0.00	0.00	12.00	.93	0.00	0.00	0.00		0.00	.93	48
UTILITY	624.00	163.00	26.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	48
MAINTENANCE	4638.00	639.25	13.78	0.00	0.00	18.00	.39	40.00	0.00	0.00		48.00	2.29	376
QC LAB	2773.25	156.75	5.65	0.00	0.00	22.75	.82	0.00	0.00	0.00		48.00	2.55	188
JANITORS	320.00	7.75	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0
WAREHOUSE	1091.50	121.00	11.09	0.00	0.00	1.25	.11	0.00	0.00	0.00		0.00	.11	32
STORES	288.00	2.00	.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	32
DEVELOPMENT LAB	783.75	67.50	8.61	0.00	0.00	.25	.03	0.00	0.00	0.00		0.00	.03	16
DRY BLEND	924.00	8.00	.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	84
COMPOUND	5675.25	477.75	8.42	0.00	0.00	60.75	1.07	0.00	0.00	0.00		0.00	1.07	300
VINYL	5485.75	730.75	13.32	0.00	0.00	51.25	.93	0.00	0.00	0.00		336.00	7.06	204
PLASTICIZER	682.00	87.25	12.79	0.00	0.00	2.00	.29	0.00	0.00	0.00		0.00	.29	148
Total Plant =====>	24569.50	2549.25	10.38	0.00	0.00	168.25	.68	40.00	0.00	0.00		432.00	2.61	1476

Pay Period ending February 23, 1992

VAB.0001189378

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

There were no reportable safety instances this month.

Quality

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

Statistics

<u>Processed</u>	<u>Month</u>	<u>FY92 Y.T.D.</u>
Processed Invoices	1222	5638
Working Fund Checks Written	10	88
Cost Savings Through Bid Process	\$2132.37	\$17885.59
Raw Material Purchase Orders Issued	90	451
MRO/AFE Purchase Orders Issued	198	977
Spare Parts Purchase Orders Issued	190	940

Packaged Finished Goods Ending Inventory

	<u>Jan... '91</u>	<u>Feb... '92</u>	<u>(Decrease) /Increase</u>	<u>% Change</u>
Compound "A" Grade	4,509,544	4,291,913	<217,631>	< 4.83>
PLENEX	141,628	129,476	< 21,152>	< 8.58>
Compound Off-Grade (BC)	285,721	420,012	134,291	47.00
Compound Off-Grade (H)	261,448	159,135	<102,313>	< 39.13>
Millscrap	184,310	210,612	26,302	14.27
Dry Blend "A" Grade	643,221	709,511	66,290	10.31
Dry Blend Offgrade	564,966	269,678	<295,288>	< 52.27>
Resin Type I	1,055,035	1,131,050	76,015	7.20
Resin Type "BC"	100	100	0	0
Vacuum Dust	<u>81.525</u>	<u>112.085</u>	<u>30.560</u>	<u>37.49</u>
Total Packaged W/house	7,727,498	7,433,572	<293,926>	< 3.80>

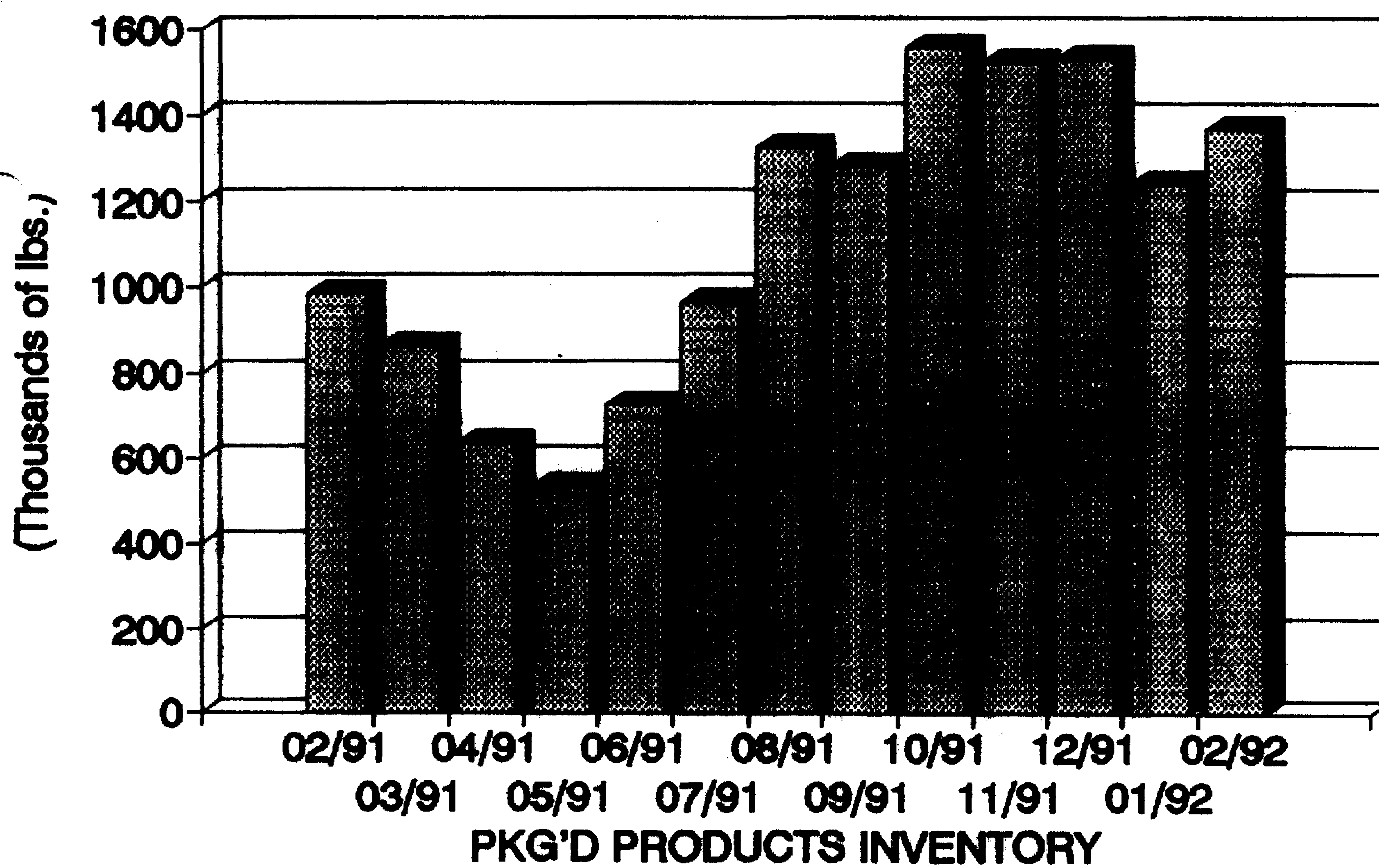
Bulk Finished Goods Ending Inventory

	<u>Jan... '91</u>	<u>Feb... '92</u>	<u>(Decrease) /Increase</u>	<u>% Change</u>
Compound "A" Grade	1,667,658	1,438,084	< 229,574>	<13.77>
Compound Offgrade	0	0	0	0.00
Dry Blend "A" Grade	2,661,679	2,431,602*	< 230,077>	< 8.64>
Dry Blend Offgrade	959,860	790,510	< 169,350>	<17.64>
Resin "A" Grade	13,531,633	12,685,666	< 845,967>	< 6.25>
Resin Offgrade	<u>1,817,850</u>	<u>1,982,750</u>	<u>164,900</u>	<u>9.07</u>
Total	20,638,680	19,328,612	<1,310,068>	< 6.35>

*Includes deferred sales (consignment) of 517,350.

FLEXIBLE & RIGID OFF-GRADE

FEB.'91 THRU FEB.'92



ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
FEBRUARY 1992

04:13 PM
13-Mar-92

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	19,583,950	19,175,210	0	90,865,360	77,757,890	0
RESIN-PACKAGED	397,600	219,250	0	2,219,706	1,049,500	0
FLEXIBLE COMPOUND-BULK	174,420	1,608,250	0	875,600	9,965,600	0
FLEXIBLE COMPOUND-PACKAGED	3,059,905	17,164	0	13,981,421	189,175	0
NEW BUSINESS	40,204	0	0	78,716	0	0
RIGID COMPOUND-BULK	732,500	665,650	0	3,628,910	3,625,350	0
RIGID COMPOUND-PACKAGED	210,083	169,350	0	2,052,888	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	807,290	0	81,300	2,625,040	917,400
TOTAL	24,198,662	22,662,164	0	113,783,901	95,388,405	917,400

-SHIPMENTS BY MODE-				
BULK:				
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
FEBRUARY				
RESIN	171	17	27	215
FLEXIBLE COMPOUND	9	0	7	16
RIGID COMPOUND	6	1	12	19
PLASTICIZER	4	0	2	6
TOTAL FEBRUARY	190	18	48	256
YTD				
RESIN	750	69	200	1,019
FLEXIBLE COMPOUND	58	0	28	86
RIGID COMPOUND	31	3	54	88
PLASTICIZER	17	0	11	28
TOTAL YTD	856	72	293	1,221

PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
FEBRUARY						
RESIN	1	22	0	0	1	24
FLEXIBLE COMPOUND	23	75	0	0	2	100
RIGID COMPOUND	0	12	0	0	0	12
PLASTICIZER	0	0	0	0	0	0
TOTAL FEBRUARY	24	109	0	0	3	136
YTD						
RESIN	13	97	0	0	1	111
FLEXIBLE COMPOUND	111	376	0	0	8	495
RIGID COMPOUND	9	58	0	0	1	68
PLASTICIZER	0	0	0	0	0	0
TOTAL YTD	133	531	0	0	10	674

CC: DAB,TLC,AEV,JRF

VAB.0001189381

03/0.

GENEEN CHEMICAL PLANT
PRODUCT RETURNS
FEBRUARY 1992

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR. I	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
02/13/92	CHELSEA BLDG	PA, OAKMONT	DB	16530	489-1490 WHT144	42R03	BOXES	24,345	02084	02/05/92	0006684-000		FAILED EVALUATION TEST
02/13/92	CHELSEA BLDG	PA, OAKMONT	DB	16530?	489-1490 WHT144 ?		BOXES	1,131	02084	02/05/92	?		M/C-POSSIBLY PRODUCED AT PREMIERE
02/13/92	CHELSEA BLDG	PA, OAKMONT	DB	16530?	489-1490 WHT144 ?		BOXES	1,333	02084	02/05/92	?		M/C POSSIBLE PRODUCED AT PREMIERE
							Sub	24,809					
02/19/92	DIA ENTERPRISES	OH, AKRON	CHPD	10440	48451 BLK	31P12	BOXES	1,340	02087	02/04/92	0005740-004		BNS'D IN TRANS-FILE CLAIM W/ROADWAY
							Sub	1,340					
02/26/92	HARLEY MOULDING	VA, ATKINS	RESIN	10783	5305	ACF141135	BULK	179,500	02049	01/29/92	0006278-003		CUSTOMER COMPLAINED MAT'L TOO FINE
							Sub	179,500					
02/17/92	SUNBEAM-MECO	MS, BAY SPRINGS	CHPD	10432	27251 WHT346	11N01	BAGS	3,650	02085	11/27/91	0003942-000		OFF COLOR
02/19/92	SUNBEAM-MECO	MS, BAY SPRINGS	CHPD	10417	38331 WHT818	11N29	BOXES	1,448	02086	12/05/91	0004547-000		CONTAMINATED-METAL FLAKES
							Sub	5,118					
02/21/92	TIMES FIBER	VA, CHATHAM	CHPD	10474	38601 BLK	T-376	BULK	44,440	02040	02/19/92	0007253-001		SUSPECT LOW STABILIZER-BOX'D REBLEND
02/23/92	TIMES FIBER	VA, CHATHAM	CHPD	10474	38601 BLK	T-661	BULK	48,500	02040	02/19/92	0007253-000		SUSPECT LOW STABILIZER-BOX'D REBLEND
							Sub	92,940					
							Sub	305,727					

VAB.0001189382

LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during February.

B. Customer Contacts

There were four customer contacts in February.

Sunbeam Home Comfort representatives visited the plant to tour and learn about our testing and processes.

Representatives from Nibco visited the plant to give us a quality supplier award and tour our facilities.

Jim Edwards and Eric Stouder visited Huls in New Jersey to introduce our resin product line and answer any technical questions about our resin.

Jim Edwards and Eric Stouder also visited American Mirrex to update them on quality improvement issues and obtain feedback on Vista resin performance.

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

02/05 Times Fiber. Canada

The customer complained that boxes of different products in a truck were randomly loaded rather than grouped by product.

2/10 Twitchell. Dothan. AL

The customer complained that ceramic beads were plugging their screen paks. Austin Analytical discovered that the beads were Zirconium which was traced to a grinding operation in one of their other raw material suppliers.

02/13 Twitchell. Dothan. AL

Due to a lab error, a car of 5395 was shipped without a second check on a compartment that was suspected to be high in moisture. Twitchell reported that the compartment in question analyzed to be dry and free flowing.

LABORATORY - Continued

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

02/14 Vycom. Scranton. PA

The customer complained that a railcar of 442 delivered in September will not unload. Vycom said there was a hard crust on top of each compartment.

02/18 Central Plastics. McPherson. KS

The customer complained that 57121 Water Clear Lot 11P11 ran rough. Good and bad samples were sent to analytical in Austin to find out the difference between the two.

02/21 Sunbeam. Bay Spring. MS

The customer complained of brown paper contamination plugging screen paks using 38931 compound. Operations is investigating.

02/21 Marley Mouldings. Marion. VA

The customer complained of a high level of fines in two railcars of 5305. Further investigation shows a difference between Vista's and Marley's sieves. Marley has ordered a new set of lab sieves. More samples will be swapped for analysis.

D. Product Waivers Issued

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Formtech	RP-91 WHT 110	Color	2 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 February, 1992.

	<u>Reactor Slurries</u>	<u>Drier 5265</u>	<u>5305</u>
Number of Samples	870	46	27
Average RVCM, ppm	49	0.255	0.165

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	4	0.169
5265	75	0.083
5305	43	0.045
5325	0	
5385	38	0.077
5395	13	0.142
5415	70	0.066
5416	0	
5465	0	
Debox	26	0.141
Pond	0	
Dry Blend	4	0.034

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	2.53	0.95	0.95	0.89	1.36	1.04
Inherent Viscosity	0.11	0.88	1.33	0.41	0.37	0.6
(vs. 0.64 - 0.67)	----	0.19	----	----	----	----
(vs. 0.715 - 0.744)	----	----	1.27	----	----	----
"L" Color	2.19	3.89	3.08	2.13	2.20	3.17
"a" Color	3.00	3.67	4.17	----	----	----
"b" Color	2.33	6.00	3.17	1.67	2.00	3.00
% on Pan	2.67	2.60	1.54	1.86	1.17	2.00
(vs. 2% max.)	----	----	----	----	----	0.33
% thru 140	3.71	2.79	2.20	2.07	1.97	4.22
Hard Particles, Average						
5 Minutes	----	----	----	22.00	6.00	6.00
7 Minutes	----	----	----	7.00	2.00	1.00
Mets I.R.	----	----	----	----	1.91	4.80
(vs. 95% of Control)	----	----	----	----	----	2.30
Average Particle Size, Microns	162	148	148	172	165	177

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	40.0	<0.83>	----	-----
Color			57.5	<1.19>
Hard Particles			20.6	<0.43>
Heat Stability	15.0	<0.31>	18.4	<0.38>
Dispersion			13.3	<0.27>
Dicing			7.6	<0.16>
Cross Contamination			6.1	<0.13>
Streamers			4.1	<0.08>
Mischarge			180.8	<3.73>
METS I.R.			14.5	<0.30>
Tensile Strength			8.0	<0.17>
Totals	55.0	<1.14>	330.92	<6.84>

I. Rigid Compound Quality Summary

There were no rejections for this month.

SAMPLE SHIPMENTS
FEBRUARY 1992

RESIN

Ship Date	Product	Amount	Customer	Ship Mode
02/04/92	5465	5 lbs.	Sarnafil	UPS
02/07/92	5415	3 X 1 lb.	Holm Industries	Airborne
02/12/92	5265	2.5 lbs.	MULANOVICH REPRESENTACIONE	Airborne
	5305	2.5 lbs.		
02/12/92	5415	2.5 lbs.	GALLIN TRADING INC.	Airborne
02/13/92	5395	200 lbs.	American Thermoplastic Ext.	UPS AIR
02/24/92	5415	10 lbs.	Ryko Plastics	Airborne

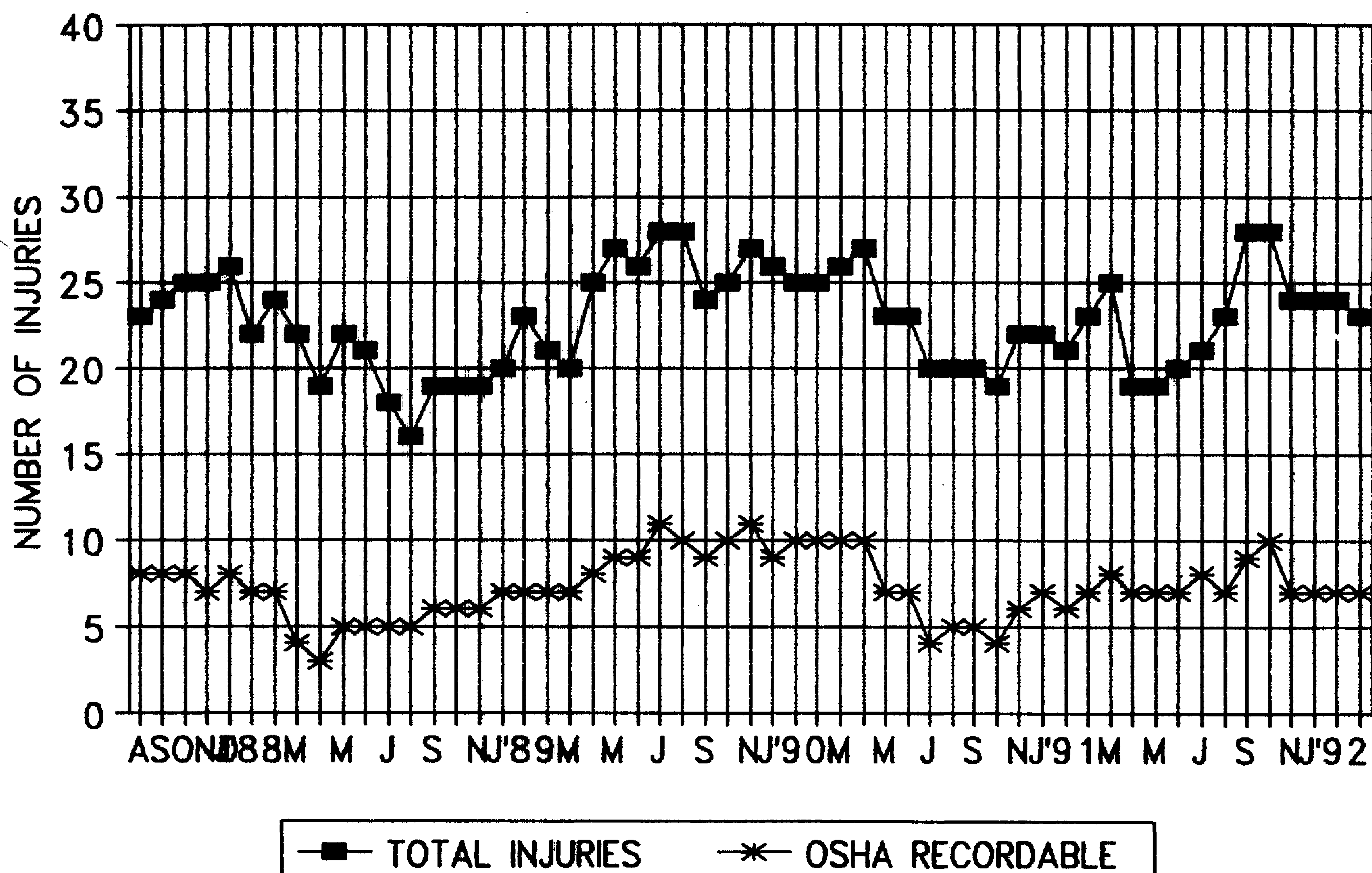
COMPOUND

Ship Date	Product	Amount	Customer	Ship Mode
02/03/92	48582 BLK	100 lbs.	Automotive Plastics & Tubing Co.	UPS
02/21/92	6085 BLK	50 lbs.	Vista - R&D Austin	UPS
02/21/92	462-121B1 BLK	100 lbs.	Premier Polymers	UPS
	462-34B1 BLK	100 lbs.		

DRYBLEND

Ship Date	Product	Amount	Customer	Ship Mode
02/14/92	RP442 WHT 110	1500 lbs.	Vista - R&D Austin	CC
02/26/92	489-167 WHT 140	956 lbs.	Dayton Extruded Plastics	CC

A



ABERDEEN ENERGY CONSUMPTION

