

File Copy

To: T. H. Huffman

From: D. C. Skokna
Date: March 25, 1991

Subject: ABERDEEN MONTHLY PROGRESS REPORT
FEBRUARY, 1991

Interoffice
Communication

VISTA

Safety

There was one first aid and one recordable (MT) injuries reported in February. The recordable injury involved a mechanic who picked up a hot bearing heater and suffered minor second degree burns on two fingers. As of February 28, 1991, the plant's employees have worked 4,256 days (5,687,388 manhours) since the last lost time injury.

<u>FY1991 Key Statistical Information</u>	<u>February</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	36.2	201.1
Reactor Stream Factor, %	87.8	88.2
Resin Quality, % Prime	98.1	98.6
VCM Efficiency, Lbs./Lb.	1.01995	1.02338
Flexible Compound Production, MM Lbs.	3.9	22.4
Flexible Compound Quality, % Prime	96.5	96.7
Rigid Compound Production, MM Lbs.	4.0	23.0
Rigid Compound Quality, % Prime	99.9	99.6
Plasticizer Production, MM Lbs.	1.5	8.0
Plasticizer Quality, % Prime	80.7	85.8
Energy Use, (EUI, %)	< 13.8>	< 7.1>
Fixed Cost Variance, \$M	36.3	96.0
Variable Cost Efficiency Variance, \$M	52.4	34.8

Operations

Resin production was reduced to lower product inventories. The second phase of VCSM training was completed with the dryers being switched over to the new system planned for March.

Both rigid and flexible compound production rates were reduced to lower product inventories.

Improved steam stripping procedures in the plasticizer unit improved the residual alcohol Cpk from 0.04 to over 1.0.

Costs

Fixed costs were \$36.3M favorable primarily because of payroll which was \$54.4M favorable, offset some by benefits clearance that was \$31.7M unfavorable. The other categories were near budget.

Variable costs (efficiency) were essentially at budget.

VAB.0001189781

T. H. Huffman

03/25/91

Aberdeen Monthly Progress Report - February, 1991

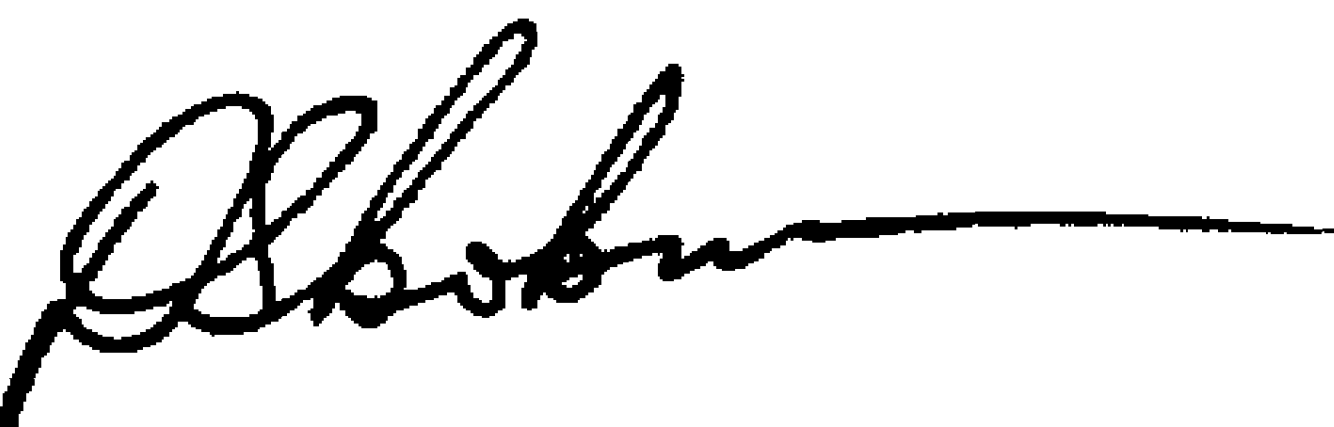
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OMP

- All natural teams met during February.
- Vinyl "A" shift made their management presentation. Their efforts reduced nitrogen use 30%.
- On 2/21, AT&T visited the plant to present us with their "Certified Quality Vendor" award. Vista is one of fourteen suppliers (out of 800 active suppliers) to receive this award.

Environmental

- We met with the State to review the method used to set our new NPDES permit parameters. Also, we sent a letter stating that we felt the proposed 10 ppm BOD limit is too stringent. The State agreed to re-evaluate the limit.
- A test run using "superbugs" started this month. These bacteria are more efficient in assimilating the contaminants present in our wastewater.
- The State approved the delay of the remedial investigation as requested by DuPont. The report is now due April 26, 1991. A second geo-physical study successfully found the buried drums we could not locate during an earlier study.
- We met with the State on renewal of the air operating permits in particular about which VCM unit risk factor is correct. Our contractor, Clement International, presented their work to determine the correct factor. The State agreed with Clement that the factor they were using was incorrect. The State wants to verify Clement's work with EPA and wait until the VCSM project is complete before they will renew our permit.



D. C. Skokna
Plant Superintendent

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<u>DISTRIBUTION</u>		<u>COVER LETTER</u>	<u>ENTIRE REPORT</u>
<u>Houston</u>	J. D. Burns	X	
	R. T. Ferrell	X	
	T. H. Huffman		X
	C. J. Matson		X
	D. F. Harman		X
	H. R. Flammer		X
	R. R. Smith		X
	B. J. Bean		X
	R. H. Gerlach		X
	R. D. Gamblin		X
<u>Austin</u>	R. L. Poe	X	
	H. J. Hall		X
<u>Oklahoma City</u>	H. D. Garrison		X
<u>LCVCM Plant</u>	P. D. Carrico		X
<u>LCCP Plant</u>	J. Friend		X
<u>LCLAB Plant</u>	J. W. Ware	X	
<u>Baltimore</u>	L. R. Bauer	X	
<u>Hammond</u>	J. Pavao	X	
<u>Blane</u>	C. R. Miller		X
<u>Premiere</u>	P. L. Foote		X
<u>Aberdeen</u>	RWS/DCS (File Copy), TJA, JBA, JEB, JME, SCH, MRK, DAB, DAM, RBN, JEN, JDO, REP, BLT		

SAFETY - B. L. Trego

	<u>February</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>	<u>Fiscal</u> <u>Y.T.D. 1990</u>
First Aid	1	7	6
OSHA Recordable	<u>1</u>	<u>5</u>	<u>3</u>
Total Injuries	2	12	9
Number of Restricted Workday Cases	0	3	2
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	0	1	0
Compound Operations	0	3	2
Maintenance	2	7	6
Laboratory	0	0	0
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>1</u>	<u>1</u>
Totals	2	12	9

Injuries by Type

Cuts and Abrasions	0	3	2
Eye Injuries	0	0	1
Burns	1	2	2
Bruises	0	2	1
Strains/Sprains	1	3	0
Stings	0	0	1
Other	<u>0</u>	<u>2</u>	<u>2</u>
Totals	2	12	9

Non-Occupational Injuries

Lost Workday Cases	2	5	3
Days Lost	18	78	84

Safety Record

Last lost time injury - 7/5/79
Days since - 4,256
Employee hours since - 5,687,388

On February 28, 1991, the employees of the Aberdeen plant completed 4256 days with no lost time injury.

Topic for the plant safety meetings during the month was "Health Training".

SAFETY - Continued

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	70	98.6	1	1.4
Lead	6	100.0	0	0
Total Particulates	6	100.0	0	0

The single VCM overexposure was with benefit of a respirator.

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
MT	Maintenance	Burn - index and middle fingers of right hand.
FA	Maintenance	Strain - right wrist.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All of the plant's natural teams met during the month of February. It was previously reported that two teams failed to meet during the month of January. In fact, only one team failed to meet. This was a three-member team scheduled to meet the last week of the month with two members absent the final week due to illness and funeral leave.

The Vinyl A-Shift Natural Team made a presentation to management on February 25. The team studied nitrogen use in the plant and identified the sources of leaks. Through engineering and operational changes, nitrogen use in the plant has been reduced by 30% since August, 1990. The team recommends converting to bulk nitrogen when capital is available. This will further reduce nitrogen losses and eliminate the safety hazards associated with handling nitrogen cylinders.

Other natural team highlights for the month included:

- The Vinyl C-Shift Natural Team continued work on their project to reduce VCM levels in discarded VCM filter packs. Initial results seem to indicate that procedures will allow for the disposal of the filter packs as non-hazardous waste.
- The Vinyl Operations Supervisor's Natural Team is currently working on a project to update all of the vinyl operating procedures. This project is not only critical to daily operations, but will also allow for compliance with new OSHA regulations and ISO standards.
- The Senior Process Engineer's Natural Team (Steve Hillman) developed experimental design examples to be included in the DOE handbook they are preparing.
- The Senior Process Engineer's Natural Team (Mike Kane) began work on their latest project - the development of a statistical reference manual.
- The Plant Manager's Natural Team finalized the selection of cash flow improvement projects totaling \$1.25MM annually and began work on these projects.
- The Safety Director's Natural Team finalized plans for the respirator fit testing project.
- The Warehouse/Purchasing Supervisor's Natural Team continued work on their inventory reduction project. The team selected vendors to be contacted on the sale of excess materials.

QUALITY MANAGEMENT PROCESS - Continued

On February 21, AT&T came to Aberdeen to present the plant with their "Certified Quality Vendor" award. Vista Aberdeen is one of only fourteen AT&T suppliers to have achieved this quality vendor status (AT&T has 800 active suppliers).

Aberdeen personnel and AT&T worked together through several audits to improve the quality systems at the plant. Vista supplies AT&T with 34862 grey compound used to make cable jackets. AT&T will no longer inspect incoming Vista compound.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>February, 1991 Variance, \$M</u>			
	<u>Product Mix</u>	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	\$ 43.3	\$28.9	<\$344.4>	<\$305.2>
Flexible Compound	< 37.2>	2.3	< 227.0>	< 261.9>
Rigid Compound	98.2	< 1.2>	< 202.8>	< 105.9>
Plasticizer	< 0.3>	22.4	< 70.0>	< 47.9>
Total	\$104.0	\$ 52.4	<\$877.2>	<\$720.9>

Resin, Flexible and Rigid Compounds: The overall efficiency variance for these products was close to budget.

Plasticizer: VRP yields were better than budget mainly because material not accounted for last month was recovered in February.

Price Variances:

	<u>Variance - \$M</u>
■ VCM	<\$387.7>
■ Resin to Rigid Compound	< 189.7>
■ Resin to Flexible Compound	< 116.2>
■ Alfol ^R 610	< 40.6>
■ Plasticizers	< 45.4>
■ Phthalic Anhydride	< 37.2>
■ Colors	< 17.6>
■ Natural Gas	24.9
■ Other Price Variances	< 67.7>
Total	<\$877.2>

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	\$ 22.7
■ MM&C	8.2
■ Miscellaneous	< 0.5>
■ TI&D	5.9
■ Clearances	< 0>
Total	\$ 36.3

COST VARIANCES - Continued**Payroll and Benefits**

Payroll costs were \$54.4M favorable while benefits were \$31.7M unfavorable.

MM&C

This was essentially at budget. Removal of asbestos from two plasticizer reactors (caused by a small fire under the insulation) prevented us from having a larger favorable variance this month.

Miscellaneous

- Moving, Home Assistance - <\$19.6M>
- Unclassified - <\$10.2M>

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 topic was "Health Training".

General

1. Inventory control was implemented to meet the production target of 37.0MM pounds.
2. The second phase of VCSM training for vinyl operators was completed. The dryer panel training included a review of the DCS dryer operation, operational programs, and "hands on" practice.
3. The resin raw materials in the 744 account were valued at \$261.0 M.

	<u>Feb.</u>	<u>YTD</u>
- Production, MM Lbs.	36.2	201.1
- Daily Rate, M Lbs./C.D.	1293.5	1330.9
- Capacity Utilization Factor, %	101.4	104.4
- Total Reactor Charges	849.0	4673.0
- Charges/C.D.	30.3	31.0
- Reactor Stream Factor, %	87.8	88.2
- Rotary Dryer Stream Factor (#4-#8), %	93.1	93.3
- Fluid Bed Dryer Stream Factor, %	99.6	97.0
- Resin Quality, % Prime	98.1	98.6

Reactor Downtime

	<u>Hours</u>
■ Operational downtime (recovery scheduling conflicts, charge/rinse water conflicts, Q.C. data delays, dump conflicts and inventory control).	354.0
■ Maintenance downtime (VC charge line plugged in Old Module, power outage, transformer problems, maintenance on D744 gearbox, D600 rupture disc and relief valve replacement, removing Old Module chem wash lines, hydroblasting D745, hydroblasting and drilling D744 condenser, and BUS-80 maintenance).	466.0

VINYL - Continued**Dryer Downtime****% of Total
Downtime**

- | | |
|--|------|
| ■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts). | 31.4 |
| ■ Maintenance downtime (centrifuge maintenance, baghouse screwfeeder maintenance, preventive maintenance, and exhauster work). | 33.5 |
| ■ Reactor limited production. | 35.2 |

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

- All old chem wash valves were pulled out of the Old Module. The valves will be used in upcoming projects and as spares.
- Since reactor 600 is not currently running low mole resin, the original relief valves and safety discs have been re-installed.
- Temporary repairs were made to #6 dryer exhauster. Excessive vibration is causing balance problems. The exhauster will be changed out in March.
- The motor on #6 dryer had to be replaced because of bad windings and bearings.
- Reactor 745 was brought down for hydroblasting and acid cleaning on the water side of the condenser. Problems with contamination had developed, but were brought under control.
- Reactor 744 was also brought down for hydroblasting in an effort to control contamination.
- I&E personnel completed training on the UPS and electrical feed systems for the new vinyl control room.

COMPOUND - J.E. Nickerson, K.G. Akins

Safety

The Compound Department had no OSHA recordable injuries in February. The topic of the monthly safety meeting was "Health Training".

General

Control of costs and inventories continued to be a high priority during February. Combined flexible and rigid compound inventories fell another 1.47MM pounds during the month. Lines were operated only on an as-needed basis and operators from shutdown lines were utilized to cover vacations and other absences to reduce overtime costs.

Repairs to the Line I roll mill lubrication system and a Line III ribbon blender were responsible for some abnormal maintenance downtime.

The use of new steam stripping procedures in the plasticizer unit have improved our residual alcohol Cpk's. Before the new procedures were instituted, the Cpk was 0.04. The current Cpk is 1.0 and more improvement is possible.

<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	27.5	1651	60	8417
Line III	21.5	1911	89	12762
Line V	9.0	<u>301</u>	<u>33</u>	<u>1232</u>
Total		3863	140	22411
% Prime		96.5		96.7
Capacity Utilization Factor		46.2		55.7

Downtime

Hours

Line I

- Product Changes	83
- Mill Maintenance	30
- Quality Problems & Control	28
- Miscellaneous Maintenance	16

Line III

- Product Changes	57
- Miscellaneous Maintenance	32
- Quality Problems & Control	18
- Blender Maintenance	11

COMPOUND - Continued**Line V**

- Miscellaneous Maintenance	24
- Product Changes	23
- Startup/Shutdown	23
- Quality Problems & Control	10

	<u>Operating Days</u>	<u>Production (M lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Rigid Compound	23	3975	173	23030
% Prime		99.9		99.6
Capacity Utilization Factor		67.2		77.8

Downtime**Hours**

- Quality Problems & Control	51
- Product Changes	45
- Miscellaneous Maintenance	37

	<u>Operating Days</u>	<u>Production (M lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	28	1450	52	7951
% Prime		80.7		85.8
Capacity Utilization Factor		77.0		84.4

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

- Line I "B" blender gearbox seal was leaking and was replaced.
- The vacuum blower was pulled and cleaned. Pluggage was suspected when the system was not operating properly.
- The Line V CPU board was replaced in the Orbitran panel.

ENGINEERING - R. E. Polk, S. C. Hillman, M. R. Kane

PROJECTS IN DEVELOPMENT - GENERAL

Dry Blend Screener Replacement

The Class "A" design was finalized. The project was submitted for approval as a part of the Third Fiscal Quarter 1991 Capital Budget. The project will replace the two existing Gump screeners with two sixty-two inch Kason screeners, resulting in significant improvements in the ability to meet customer oversize particle specifications.

Wastewater Test Run

The test of "superbugs" is continuing. Initial analysis results show single digit BOD values (8 ppm), down from 30 ppm prior to the test. The impact of the "superbugs" has been positive; the test will continue through the middle of March.

V-11 Centrate Recycle

Current operation has centrate being sent to the sewer after having heat recovered and water stripper effluent going to the cooling tower. At present, the antistat being used on the rotary dryers (wet calcium stearate) does not allow the centrate water to be recycled to the cooling towers. The wet stearate fouls the towers and the equipment in the cooling water system. Until a suitable substitute is identified, the current operation mode will be used.

HAZOPS

Two HAZOPS were issued for review in February. One was for the Incinerator Replacement Project and the other was for the Dry Blend Screener Project.

VCSM

Initial conversion of process equipment to the DCS was completed successfully. Dryer number 1 started up with no major complications. Conversion of the remaining rotary dryers will continue in March and should be completed by early April. Operator training and qualification testing is about fifty percent complete. Also, the DCS operating system software has been upgraded to version 10.0 which is the latest version available. The project continues to progress as scheduled.

ABERDEEN CHEMICAL PLANT
APPROVED CAPITAL PROJECTS

AFE NUMBER	PROJECT DESCRIPTION	STATUS
A858	ALTERNATE NATURAL GAS PIPELINE	CLOSED TO FIELD CHARGES.
A519	PLANT ELECTRICAL UPGRADE	THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN MARCH.
A649	VINYL CONTROL SYSTEM MODERNIZATION	THE DCS EQUIPMENT IS ON SITE. CONVERSION OF THE DRIVERS IS PLANNED FOR MARCH AND APRIL.
A909	INERTS REMOVAL MODIFICATIONS	THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN MARCH.
B511	VCM UNLOADING MODIFICATIONS	DESIGN IS SCHEDULED TO BEGIN IN MAY.
B629	COMPOUND REDEND TRANSFER SYSTEM	INSTALLATION IS COMPLETE EXCEPT FOR PUNCHLIST ITEMS. FIELD CLOSURE IS PLANNED FOR MARCH.
B749	LEAD HANDLING AND EXPOSURE REDUCTION	INSTALLATION IS IN PROGRESS WITH COMPLETION PLANNED FOR MARCH.
B849	COMPOUND LINE 3 SEMI-DULY LEAD HANDLING	CONSTRUCTION IS IN PROGRESS AND PLANNED FOR COMPLETION IN MARCH.
B859	COMPOUND SILD BRIDGE BREAKING	INSTALLATION IS COMPLETE EXCEPT FOR PUNCHLIST ITEMS.
B899	RAILCAR CLEANING RACK	DESIGN IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR MAY.
F699	LOW MOLECULAR WEIGHT RESIN EXPANSION	THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN MARCH.
F779	DRYERS NO.4 & 5 CONTAMINATION REDUCTION	ADDITIONAL PUNCHLIST ITEMS ARE UNDER CONSIDERATION.
G659	NEW DRYER BACKUPDES	THE ORIGINAL SCOPE OF WORK IS COMPLETE AND THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN APRIL.
G819	VCM SIGHT GLASS REPLACEMENT	CLOSED TO FIELD CHARGES.
G839	PLANT WATER RECYCLE	THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN APRIL.
B570	OLD MODULE RECOVERY SYSTEM ACCESS	DESIGN IS COMPLETE. INSTALLATION IS PLANNED FOR 7/91.
B580	RECOVERY VACUUM PUMP PRESSURE RELIEF	DESIGN IS COMPLETE. INSTALLATION IS PLANNED FOR 7/91.
B600	PLASTICIZER LOADING AND UNLOADING REVISIONS	DESIGN IS IN PROGRESS WITH COMPLETION PLANNED FOR MAY.
F650	5305 RESIDUAL VCM REDUCTION	CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR APRIL.
F660	DECALCIFIED WATER	CONSTRUCTION IS IN PROGRESS WITH COMPLETION PLANNED FOR JUNE.
G560	TC SPILL CONTAINMENT	INSTALLATION IS COMPLETE EXCEPT FOR PUNCHLIST ITEMS.
G610	TC COMPLIANCE PROJECT	INSTALLATION IS COMPLETE EXCEPT FOR PUNCHLIST ITEMS.
G630	REACTOR SLURRY STRIPPING OPTIMIZATION	INSTALLATION IS COMPLETE AND THE SYSTEM OPERATIONAL. FIELD CLOSURE IS PLANNED FOR APRIL.
H500	PLANT WATER SYSTEM	ENGINEERING IS IN PROGRESS. PROJECT COMPLETION IS PLANNED FOR LATE-1991.
H510	WEST INCINERATOR REPLACEMENT	DELIVERY OF THE INCINERATOR IS PLANNED FOR 3/91. PROJECT COMPLETION IS PLANNED FOR 5/91.
H620	EAST INCINERATOR REPLACEMENT	DELIVERY OF THE INCINERATOR IS PLANNED FOR 5/91. PROJECT COMPLETION IS PLANNED FOR 7/91.
H501	MISCELLANEOUS CAPITAL PROJECTS < \$15K	ENGINEERING IS IN PROGRESS ON 15 PROJECTS.
H521	REPLACEMENT INHERENT VISCOSITY ANALYZER	THE EQUIPMENT HAS BEEN RECEIVED AND THE PROJECT WILL BE CLOSED TO FIELD CHARGES IN MARCH.
H531	BOILER FEEDWATER TANK REPLACEMENT	DESIGN IS SCHEDULED TO BEGIN IN MARCH.

ENVIRONMENTAL - F. G. Jeanson

Water

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

We met with the State Water Quality Department to review the modeling procedure used to determine our permit limits. They agreed to run some additional cases of our outfall varying dissolved oxygen and flow in James Creek. In addition, we talked about verifying the model with actual data that we would gather in the summer and what was involved in obtaining a winter 7Q10.

A letter was sent to the State informing them that we feel the new 10 BOD permit limits in the revised draft NPDES permit are too stringent. The State responded verbally to our letter and said they were re-evaluating the permit limits.

The State was in the plant this month for their semi-annual inspection of our wastewater and stormwater samples. They collected samples from all four of our outfalls.

A letter was sent this month notifying the State of two changes made to our boiler and cooling tower chemicals.

A test run of "superbugs" was started this month in our wastewater treatment system. Some BOD reduction has occurred since we started.

Superfund

The State approved the delay of the remedial investigation final report as requested by DuPont Environmental DERS. A meeting was held with Conoco and DERS to discuss the test results from samples taken of and around the superfund sites. The final report for the remedial investigation will be complete at the end of March. This report is due to the State on April 26, 1991.

A second geo-physical study was completed to find the buried drums. This time it was successful. The drums were found fifteen feet below ground level. A drum removal plan is being put together by DERS.

An audit of Sun Polymers by Conoco and Vista was completed this month. Conoco is interested in evaluating the option of drying pond #2 resin here in Aberdeen. A meeting will be held next month to discuss all options.

Waste

Waste shipments during the month included:

- One bulk shipment of floor sweepings to CWM in Lake Charles, LA.
- One bulk shipment of separator oil to M&M Chemicals in Gadsden, AL.

ENVIRONMENTAL - F. G. Jeanson - Continued

Air

A meeting was held with the State to discuss our operating permit renewal. The meeting was centered around the unit risk factor controversy. Our contractor, Clement Int., presented the work he had done to determine the proper unit risk factor. After some discussion, the State agreed to the lower risk factor. The State wanted to verify Clement's work with EPA in Washington and wait until the Vinyl Control System Project was complete before they renewed our permit. They said our permit would stay in effect until that time.

Miscellaneous

The annual Vinyl Institute environmental survey was completed. Once again we had 100% compliance.

An environmental presentation was made to the 20th Century Club.

I attended the annual legislative reception held for our Representatives and Senators.

The resin claim dryer has been sold. Sun Polymers made a 10% down payment.

The every four years TSCA report was completed and sent to EPA. This report summarizes the amount of certain types of plasticizer we manufactured in 1989.

ENERGY CONSERVATION - J. R. Ganc

February, 1991

Fiscal Y.T.D.

I. Energy Conservation Data

A. Unadjusted EUI	<14.8%	< 7.9%
B. Adjusted EUI	<13.8%	< 7.1%
C. BTU/Lb. Product	2883.7	2740.0
D. Total Energy Consumption MMM BTU	131.2	689.2

II. Boiler Operation

<u>Boiler</u>	<u>Combustion Efficiency %</u>	
	<u>February, 91</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.4%	83.1%
No. 2	83.3%	83.3%
No. 3	82.9%	82.8%

All three boilers operated all twenty-eight days of the month.

HUMAN RESOURCE REPORT**FEBRUARY, 1991****Personnel** - J. E. Beall**Employment**

None

Promotions/Transfers

Melvin Tallie, Development Technician, Laboratory -
Reduction in staffing - employee exercised
seniority into Lead Technician position.

Dave Gathings, Jr., Compound Operator, Compound
Department - Promoted to Compound Shift Supervisor.

Douglas Knittig, Process Engineer, Process Engineering
Department - Promoted to Operations Engineer
(replacing James Vinoski).

RETIREMENTS

None

TERMINATIONS/RESIGNATIONS

None

TO/FROM LEAVE OF ABSENCE

None.

ABERDEEN PLANT

MONTHLY PERSONNEL REPORT

FEBRUARY, 1991

EMPLOYMENT		NEW HIRES		MO	YTD
Salaried	75	Salaried/Transfer		0	0
Hourly	165	Hourly		0	0
Temporary	2	Temporary		1	1
SUB TOTAL	242	TOTAL		1	1
L.O.A.	5				
TOTAL	247				

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						MO.	YTD	
WAREHOUSE	15	9	0	60%	0	0	0	0
GENERAL PLANT	12	5	0	42%	0	0	0	0
MAINTENANCE	40	8	0	20%	0	0	0	0
LABORATORY	23	6	2	26%	8.3%	0	0	0
COMPOUND	37	21	1	57%	2.7%	1	1	1.6%
VINYL	33	10	1	30%	3.0%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	165	61	4	37%	2.4%			
SALARIED	75	6	18	8%	24%			

APPLICATIONS	NO	%	PLANT TURNOVER	No	%
Month	0	0	Hourly Month	1	3.6%
YTD	0	0	YTD	1	3.6%
Minority	0	0	Salaried Month	0	0
Female	0	0	YTD	2	1.6%

ABERDEN CHEMICAL PLANT
 DEPARTMENTAL HOURS ANALYSIS REPORT
 DISTRIBUTION LIST RMS, JFC, JVV, DEPARTMENT HEADS, FILE
 2/ 4/91 THRU 3/ 3/91

FEBRUARY, 1991

DEPT	OVERTIME HOURS		OVERTIME AS A % OF STR TIME		ABSENCE AS A % OF STRAIGHT TIME			YEAR-TO-DATE		VACATION HOURS
	STR TIME HRS WRKD	OVERTIME HOURS NONCONTROL	OVERTIME HOURS CONTROL	STR TIME	ABSENCE HRS LOST	SICKNESS	PAID	NONPAID	TOTAL	
YARD	1260.00	0.00	168.00	13.33	0.00	0.00	0.00	0.00	0.00	56.00
UTILITY	648.00	0.00	33.75	5.21	0.00	0.00	0.00	0.00	0.00	24.00
MAINTENANCE	5236.00	0.00	487.50	9.31	276.00	4.50	0.00	0.69	5.27	248.00
QC LAB	2603.50	0.00	275.50	10.58	12.50	0.00	0.00	0.48	0.48	252.00
JANITORS	312.00	0.00	2.50	0.80	0.00	0.00	0.00	0.00	0.00	0.00
WAREHOUSE	1034.00	0.00	59.25	5.73	78.00	6.96	0.00	0.58	7.54	8.00
STORES	304.00	0.00	2.00	0.66	0.00	0.00	0.00	0.00	0.00	16.00
DEVELOPMENT LAB	800.00	0.00	14.75	1.84	0.00	0.00	0.00	0.00	0.00	0.00
DRY BLEND	756.00	0.00	18.75	2.48	36.00	0.00	4.76	0.00	4.76	48.00
COMPOUND	5444.00	0.00	163.25	3.00	520.00	0.67	0.44	0.44	9.55	220.00
VINYL	5813.25	0.00	585.50	10.07	226.75	2.89	0.41	0.60	3.90	168.00
PLASTICIZER	798.25	0.00	17.25	2.16	21.75	1.50	0.00	1.22	2.72	12.00
GENERAL HELPERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PLANT	25009.00	0.00	1828.00	7.31	1171.00	3.85	0.34	0.49	4.68	3.63 1060.00

TOTAL PLANT HOURS FOR JURY DUTY..... 0.00
 TOTAL PLANT HOURS FOR NATIONAL GUARD/RESERVE DUTY..... 0.00
 TOTAL PLANT HOURS FOR DEATH IN FAMILY..... 84.00

ABERDEEN CHEMICAL PLANT
DEPARTMENTAL HOURS ANALYSIS REPORT
DISTRIBUTION LIST RWS, JFC, JYU, DEPARTMENT HEADS, FILE
10/ 1/90 THRU 3/ 3/91

YEAR TO DATE FY 1991

DEPT	OVERTIME HOURS		OVERTIME AS A % OF STR TIME	ABSENCE HRS LOST	ABSENCE AS A % OF STRAIGHT TIME			YEAR-TO- DATE	VACATION HOURS		
	STR TIME HRS WRKD	OVERTIME HOURS NONCONTROL			SICKNESS	OTHER PAID	NONPAID			TOTAL	
YARD	6704.00	156.00	895.25	15.68	33.25	0.00	0.00	0.50	0.41	676.00	
UTILITY	3444.00	144.00	332.50	13.84	0.00	0.00	0.00	0.00	0.00	200.00	
MAINTENANCE	27068.25	72.00	2625.00	9.96	929.50	2.19	0.19	1.06	3.58	2800.00	
QC LAB	14560.75	280.00	783.25	7.36	135.25	0.00	0.16	0.76	0.93	1004.00	
JANITORS	1485.50	0.00	44.25	2.98	27.25	0.00	1.00	0.76	1.83	172.00	
WAREHOUSE	5167.50	0.00	389.25	7.53	321.50	4.95	0.31	0.96	6.22	696.00	
STORES	1584.75	0.00	10.50	0.66	7.25	0.00	0.00	0.46	0.46	112.00	
DEVELOPMENT LAB	4553.50	99.50	316.75	9.14	56.50	0.00	1.05	0.19	1.24	400.00	
DRY BLEND	4332.75	0.00	391.25	9.03	43.25	0.00	0.83	0.17	1.00	512.00	
COMPOUND	29297.75	72.00	2229.00	7.85	1794.25	4.97	0.33	0.83	6.13	1096.00	
VINYL	30926.00	1048.00	4301.00	17.30	1400.00	3.61	0.16	0.76	4.53	2244.00	
PLASTICIZER	4167.00	120.00	219.00	8.14	49.00	0.58	0.00	0.60	1.18	324.00	
GENERAL HELPERS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL PLANT	133292	1999.50	12537.00	10.91	4797.00	2.58	0.25	0.76	3.60	3.63	11212.00

TOTAL PLANT HOURS FOR JURY DUTY..... 35.25
TOTAL PLANT HOURS FOR NATIONAL GUARD/RESERVE DUTY..... 48.00
TOTAL PLANT HOURS FOR DEATH IN FAMILY..... 252.00

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

There were no reportable safety instances this month.

Quality

All natural teams met in February.

Statistics

<u>Processed</u>	<u>Month</u>	<u>Y.T.D.</u>
Processed Invoices	944	5123
Working Fund Checks Written	12	62
Cost Savings Through Bid Process	\$5277	\$17497

Packaged Finished Goods Ending Inventory

	<u>Jan.. 1991</u>	<u>Feb.. 1991</u>	<u>(Decrease) /Increase</u>
Compound "A" Grade	3,960,418	4,035,813	75,395
PLENEX	80,945	64,682	< 16,263>
Compound Off-Grade (BC)	889,372	734,449	<154,923>
Compound Off-Grade (H)	57,750	73,172	15,422
Millscrap(*)	116,100	132,457	16,357
Dry Blend "A" Grade	449,495	312,968	<136,527>
Dry Blend Offgrade	50,074	44,605	< 5,469>
Resin Type I	367,470	636,800	269,330
Resin Type "BC"	36,950	37,600	650
Vacuum Dust	<u>302,014</u>	<u>327,141</u>	<u>25,127</u>
Total Packaged Warehouse	6,310,588	6,399,687	89,099

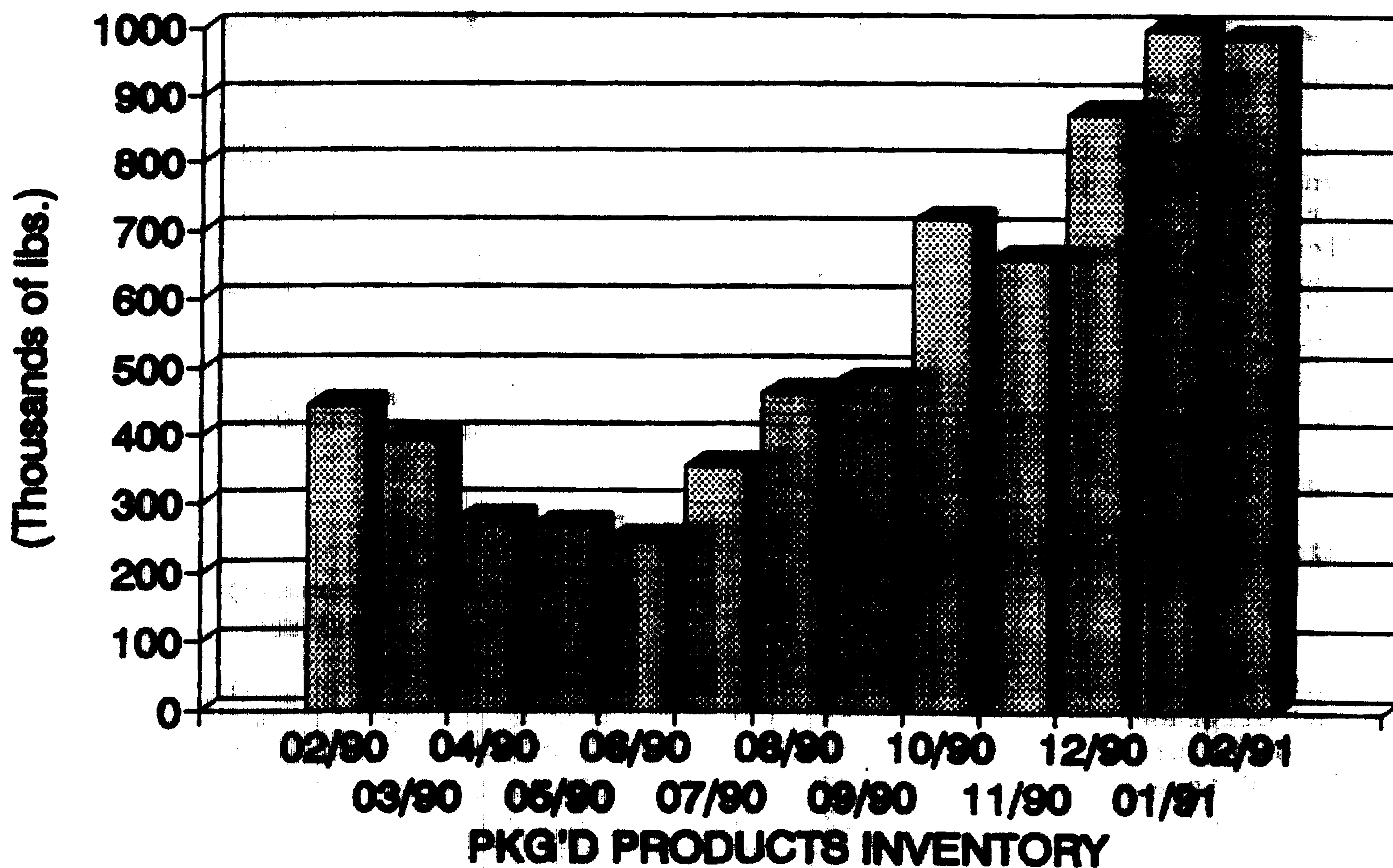
* Include PLENEX millscrap and cleanout.

Bulk Finished Goods Ending Inventory

	<u>Jan.. 1991</u>	<u>Feb.. 1991</u>	<u>(Decrease) /Increase</u>
Compound "A" Grade	2,272,254	1,774,593	< 497,661>
Compound Offgrade	552,350	368,450	< 183,900>
Dry Blend "A" Grade	2,118,423	1,550,810	< 567,613>
Dry Blend Offgrade	879,940	1,057,260	177,320
Resin "A" Grade	10,983,350	5,926,210	<5,057,140>
Resin Offgrade	<u>156,100</u>	<u>580,250</u>	<u>424,150</u>
Total	16,962,417	11,257,573	<5,704,844>

FLEXIBLE & RIGID OFF-GRADE

FEB.'90 THRU FEB.'91



ABERDEEN CHEMICAL PLANT

STAYING POWER

FEBRUARY 1991

NORTHERN ELECTRIC	MS, BAY SPRINGS	CMPD	1303-00	38931 MAT	19E21	BOXES	1,406	01369	05/31/89	852020-007	2139818	INV CONTROL	NOT NEEDED-
NORTHERN ELECTRIC	MS, BAY SPRINGS	CMPD	1303-00	38931 MAT	39316	BOXES	4,916	01369	08/25/89	852020-008	2149642	INV CONTROL	NOT NEEDED-

Sub 6.322

02/06/91	DAYTON EXTRUDED	OH, MIAMISBURG	DB	1629-19	RP-151	WHT145	WIPY45252	BOXES	1,210	01333	01/02/91	877548-058	2223712	% OM	40	MESH-POOR	MAX D
02/06/91	DAYTON EXTRUDED	OH, MIAMISBURG	DB	1629-19	RP-151	WHT145	WIPY45252	BULK	131,750	01333	01/02/91	877548-058	2223712	% EM	40	MESH-POOR	MAX D

Sub 132,960

VA, STRASBURG	CMPD	1797-00	462-78B NAT	11C24	BAGS	850	01371	01/25/91	899989-001	2223628	EXCESS-RETURNED FROM TR
VA, STRASBURG	CMPD	1797-00	462-78C NAT	11C20	BAGS	975	01371	01/25/91	899989-001	2223628	EXCESS-RETURNED FROM TR
VA, STRASBURG	CMPD	1797-00	462-78A NAT	11C19	BAGS	1,000	01371	01/25/91	899989-001	2223628	EXCESS-RETURNED FROM TR
PA, OAKMONT	BB	1497-00	RP-169 WHT149	UTCX46552	BULK	19,800	01335	09/04/90	891416-008	2203138	CB CMPD-POOR BLOSS & PAR
TN, LOUDON	CMPD	1123-01	17462 BLK	50U03	BOXES	257	01370	06/28/90	875815-002	2195528	HARD PARTICLES AND ODOR
TN, LOUDON	CMPD	1123-00	17462 NAT	50U22	BOXES	4,000	01370	06/28/90	875815-002	2195528	HARD PARTICLES AND ODOR
TN, LOUDON	CMPD	1123-01	17462 BLK	59L12	BOXES	901	01370	09/29/89	876284-001	2153764	HARD PARTICLES AND ODOR
TN, LOUDON	CMPD	1123-00	17462 NAT	50R15	BOXES	2,563	01370	03/05/90	884361-002	2176674	HARD PARTICLES AND ODOR
TN, LOUDON	CMPD	1123-01	17462 BLK	50U03	BOXES	3,200	01370	06/12/90	886903-002	2191984	HARD PARTICLES AND ODOR
TN, LOUDON	CMPD	1123-?	17462NAT DR GRV	?	BOXES	400	01370	?	?	?	HARD PARTICLES AND ODOR-

Sub 34,546

GROUP	DEKCO	IN, KENDALLVILLE	RESIN	1842-11	5415	6ACX73399 BULK	43,860	01337	11/15/90	891903-005	2214456	CUST REJECTED-HARD PART
NORTHWIRE		WI, OSCEOLA	CMFD	1309-01	38601 BLK	BOXES	890 <td>01372</td> <td>01/18/91</td> <td>898544-003</td> <td>2223232</td> <td>ROUGH EXTRUSION</td>	01372	01/18/91	898544-003	2223232	ROUGH EXTRUSION
POLYTEX (CHELSEA)		PA, OAKMONT	DB	1497-44	269-185 WHT144	UTCX46532 BULK	56,050 <td>01334</td> <td>07/05/88</td> <td>836031-021</td> <td>2108838</td> <td>MOISTURE FROM OPEN DONE</td>	01334	07/05/88	836031-021	2108838	MOISTURE FROM OPEN DONE

100,001

PA, OAKMONT	DB	1497-44	269-185	WHT144	VIPTX5285	BULK	01336	09/19/88	836031-026	2115294	PRODUCT OFF-SPEC
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132,350

10822	452-93C NAT	1797-00	DRUMS	1.500	01373	01/17/91	9002333-001	2222886	BOX	DAMAGED ENROUTE-CLAI
	GA, GAINESVILLE	CNPD								
	HACKLANDSBURG-DUNCAN									
	GA, GAINESVILLE	CNPD								
	1797-00									
	452-93C NAT									
	10822									
	DRUMS									
	1.500									
	01373									
	01/17/91									
	9002333-001									
	2222886									
	BOX									
	DAMAGED ENROUTE-CLAI									

1.5051

MS, CORINTH	1849-11	5385-1 CAL	WIC46412 BULK	1,000	01338	12/28/90	803882-187	2219400	VALVE BENT-COULD NOT OFF
IPC CORINTH	9038-00	416-74-1 NAT	11C23	BOXES	01374	01/25/91	900654-001	2224208	DIFFICULTY PROCESSING
PRESTOLITE	9038-00	416-74-1 NAT	11C09	BOXES	01374	02/06/91	901405-002	2275306	DIFFICULTY PROCESSING

7,366

00000000000000000000

45.844

VAB.0001189805

A

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
FEBRUARY 1991

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	18,790,220	14,972,710	167,600	97,738,994	69,161,470	1,413,500
RESIN-PACKAGED	201,638	296,300	0	974,183	1,134,600	0
FLEXIBLE COMPOUND-BULK	843,530	888,800	0	3,640,990	5,930,200	0
FLEXIBLE COMPOUND-PACKAGED	2,743,789	81,846	0	13,219,148	711,002	0
NEW BUSINESS	500	0	0	33,353	0	0
RIGID COMPOUND-BULK	3,803,040	531,800	0	16,818,700	2,869,350	0
RIGID COMPOUND-PACKAGED	391,923	9,000	0	1,764,234	521,706	0
TOLLING - BULK	0	0	0	0	0	1,401,960
TOLLING - PACKAGED	0	0	0	0	0	33,600
PLASTICIZER	43,720	89,400	554,450	648,670	630,070	2,722,110
TOTAL	26,818,360	16,869,856	722,050	134,838,272	80,958,398	5,571,170

-SHIPMENTS BY MODE-				
BULK:	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
FEBRUARY				
RESIN	162	56	37	255
FLEXIBLE COMPOUND	8	0	3	11
RIGID COMPOUND	24	12	3	39
PLASTICIZER	3	0	3	6
TOTAL FEBRUARY	197	68	46	311
YTD				
RESIN	834	224	181	1,239
FLEXIBLE COMPOUND	53	0	15	68
RIGID COMPOUND	114	16	61	191
PLASTICIZER	11	29	20	60
TOTAL YTD	1,012	269	277	1,558

PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
FEBRUARY						
RESIN	5	14	0	0	6	25
FLEXIBLE COMPOUND	28	55	0	0	9	92
RIGID COMPOUND	1	10	0	0	1	12
PLASTICIZER	0	0	0	0	0	0
TOTAL FEBRUARY	34	79	0	0	16	129
YTD						
RESIN	20	60	0	0	28	108
FLEXIBLE COMPOUND	108	334	0	0	56	498
RIGID COMPOUND	6	63	0	0	3	72
PLASTICIZER	0	1	0	0	0	1
TOTAL YTD	134	458	0	0	87	679

LABORATORY - J. M. Edwards, Jr.**A. Safety**

There were no safety incidents in the Laboratory during February. The monthly safety meeting topic was "Annual Health Training".

B. Customer Contacts

Representatives from A&T visited the Aberdeen Plant on 2/21/91. Ms. Cheryl Cincetti with AT&T made a presentation to an assembly in the Plant and awarded us the "Certified Quality Vendor" award.

C. Customer O.C. Problem Reports and COR's**02/04 Northwire, Inc., Osceola, WI**

Customer complained of contamination in 38552 NAT compound, lot 10B10. During the production of this material, there was an incident of contamination in the product. Several boxes were downgraded and the problem material was assumed to be isolated. A procedural change was made to downgrade product boxes on either side of the discovered out-of-spec material.

02/06 Klockner-Pentaplast, Gordonsville, VA

Customer complained of contamination in compartment CB of 5305 railcar #46436. The compartment was transferred to their B-Grade silo. All samples, including the samples sent from Klockner of the contaminated compartment showed to be within specification. No further action is planned.

02/06 Southwire Company, Carrollton, GA

Customer complained of significant drop in Cpk values for 5415 shipments in the 4CQ90 for IV, contamination and percent moisture. A letter of explanation was written by Process Engineering.

02/08 Intex Plastic Corporation - Corinth, MS

Customer complained of difficulty unloading two recent 5385 railcars. The Aberdeen Yard Department assisted (via phone) to solve the problems.

LABORATORY - Continued

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

02/19 Madison Cable, Worcester, MA

Customer complained of difficulty breaking down 384FR compound. Nothing definite was discovered to explain the difference. The Technical Service Group will followup on this problem.

02/22 AT&T, Greensboro, NC

Customer complained of receiving underloaded railcars. AT&T has asked that our cars be filled at least 180,000 pounds. More discussion is planned to resolve this issue.

02/22 American Mirrex Corporation, New Castle, DE

Customer complained of various types of contamination plugging 5305 silo outlet sifters. Some of the contamination originated at the CSX terminal. The same type of contamination was found in Oxy resin which uses the same terminal. Samples of the contamination have been sent to Austin R&D and CSX for further study. Another trip has been scheduled to talk with Mirrex and the CSX terminal.

02/25 Hacklenburg-Duncan, Gainesville, GA

Customer complained of bad smelling pallets in a shipment of 452-106A NAT, 89A compound. Investigation is underway.

02/22 Klockner-Pentaplast, Gordonsville, VA

Customer complained of contamination in six railcars of 5305. A majority of the contamination was line scale that resembled "onion skin". Four of the cars were Vista's. One of the cars was from Pac West and one of the cars was a competitor's. All of the samples looked the same. Samples have been forwarded to Austin R&D for chemical analysis. A meeting has been scheduled at Klockner the week of March 25. A letter has been sent to Klockner explaining what we have found thus far.

LABORATORY - Continued**D. Product Waivers**

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Dayton	RP-151 WHT 145	Color	1 R/C
Essex Group	5415	Particle Size	1 H/T
H&W	5385	Static Flow	1 H/T
Stylecrest	RP-27 WHT 113	40 Mesh	2 R/C

E. RVCM Summary**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, 1991.

	<u>Reactor Slurries</u>	<u>5265</u>	<u>Drier 5305</u>
Number of Samples	850	30	49
Average RVCM, ppm	46	0.186	0.186

RVCM of Shipment Samples

The following is a summary of the residual VCM analysis of shipment samples for the month of February, 1991.

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM, ppm</u>
5265	40	0.093
5305	53	0.107
5325	3	0.096
5385	74	0.282
5395	1	0.008
5415	40	0.045
5465	3	0.091
Dry Blend	17	0.070
Debox	8	0.707
Pond	6	0.255

LABORATORY - Continued**F. Resin Process Capabilities** (based on dryer "regulars")

	<u>5265</u>	<u>5305</u>	<u>5385</u>	<u>5395</u>	<u>5415</u>
Bulk Density	1.20	0.46	1.15	----	1.06
Inherent Viscosity	1.57	0.69	0.62	----	0.53
(vs. 0.715 - 0.744)	----	0.18	----		
L Color	3.72	1.87	2.00	----	4.00
A Color	7.67	9.00	----		
B Color	3.017	3.50	2.50	----	5.33
% on Pan	1.43	1.13	1.25	----	2.06
(vs. 2%, max.)	----	----	----	----	0.39
% thru 140 Mesh	1.00	0.68	1.05	----	2.54
Mets I.R.	----	----	----	----	5.06
(vs. 95% of control)					2.29
Hard Particles, (% > 10)	----	----	71.5	----	0
Average particle size, microns	136	140	161	----	170

G. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>(%)</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	5.0	<0.12>	----	----
Specific Gravity	5.0	<0.12>	----	----
Color	175.0	<4.34>	34.5	<0.86>
Hard Particles	----	----	50.4	<1.25>
Heat Stability	----	----	7.8	<0.19>
Contamination	----	----	34.0	<0.84>
Dicing	----	----	10.5	<0.26>
Cross Contamination			4.7	<0.12>
Mischarge	----	----	14.9	<0.37>
Total	185.0	<4.59>	156.8	<3.89>

H. Rigid Compound Quality Summary

There were no rejections for the month.

I. Miscellaneous

1. All six natural teams met during the month.
2. The new resin viscosity instrument was received and installed.
3. The Coulter particle size analyzer was put in Q.C. service on February 25 measuring all in-process samples. Concurrently, shipment particle size analysis was switched from wire mesh screens to precision screens.
4. Dave Cox completed the IPA software program to run on PC's.

SAMPLE SHIPMENTS

FEBRUARY 1991

RESIN

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
2/06/91	5265	300 lbs.	Nibco (KY)
2/08/91	5265	50 lbs.	Kenrich Petrochemical Inc.
	5305	50 lbs.	
2/12/91	5415	50 lbs.	Ethyl Corporation
2/15/91	Sifter Overflow "Coarse"	5 lbs.	Shawnee Chemical
2/18/91	5385	1 kg.	FADALTEC (Colombia)
	5415	1 kg.	
2/18/91	5385	1 kg.	FACOMECH (Colombia)
	5415	1 kg.	
2/22/91	5265	50 lbs.	INDUSTRIAL ENVAMEX S.A. (Mexico)
2/25/91	5415 Control	50 lbs.	Vista - OKC
2/27/91	5265	50 lbs.	IND. PLASTICAS
	5305	50 lbs.	INTERNACIONALES
	5385	50 lbs.	
2/28/91	5415	50 lbs.	INDUSTIAS CONELEC
2/28/91	5385	100 lbs.	ETERPLAST S.A. (Ecuador)
	5415	100 lbs.	

COMPOUND

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
2/04/91	Vistel 9102 WHT	3200 lbs.	U-Brand
	449-78 WHT 110	2840 lbs.	
2/06/91	18162 BLK (OG)	50 lbs.	H. Heller Company
2/07/91	419-50-C NAT 02	50 lbs.	Akzo Engineering Plastics
	419-79-C NAT 02	50 lbs.	
2/08/91	17462 WHT(OG)	50 lbs.	Gentry Management
	38931 WHT(OG)	50 lbs.	

COMPOUND (Cont.)

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
2/08/91	462-34A BLK	50 lbs.	Vista - Austin
	462-34AX2 BLK	50 lbs.	
	462-34B BLK	50 lbs.	
2/12/91	462-34AX1 BLK	50 lbs.	Vista - Austin
2/15/91	MSP-80	100 lbs.	Vulcan Metals
2/15/91	419-79-C NAT 02	50 lbs.	Vista - Austin
2/21/91	57462 NAT	300 lbs.	Vytron Corp.
	57561 NAT	300 lbs.	
	58561 NAT	300 lbs.	
2/21/91	419-68 NAT	1400 lbs.	Times Fiber
2/21/91	17561 NAT(OG)	1 lb.	Prototype Plastic
	17462 GRY 545(OG)	1 lb.	Extrusion Co, Inc.
	18162 GRY 545(OG)	1 lb.	
2/21/91	461-120A WAT CL(OG)	50 lbs.	Remee Products Corp.

DRYBLEND

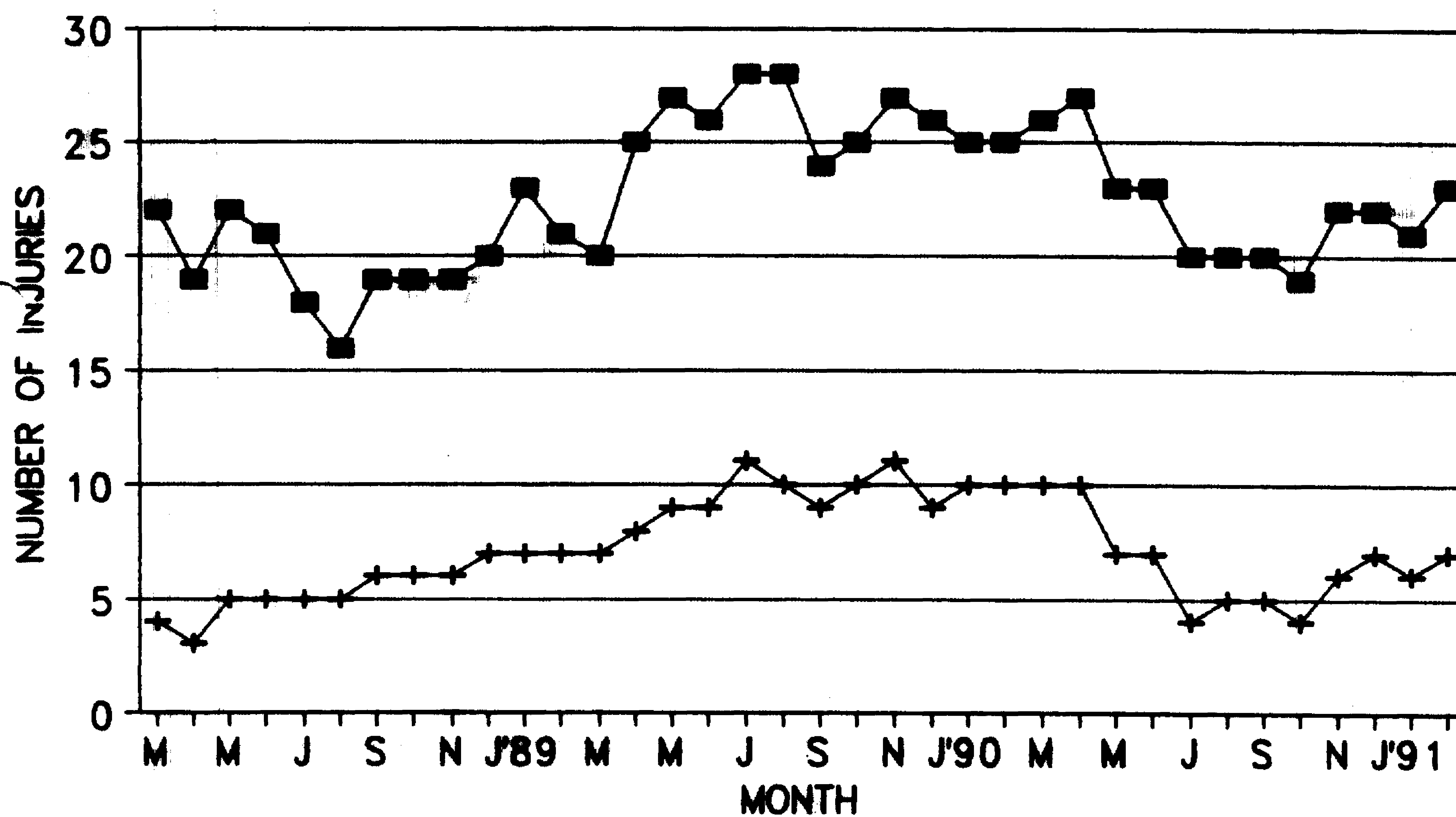
<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
2/07/91	RP-151 WHT 145(OG)	1210 lbs.	Stylecrest
2/12/91	RP-151 WHT 145(OG)	1500 lbs.	Western Ag Sales Co., Inc.
2/13/91	80172C WHT 110	100 lbs.	THE BRUNA CORP.

MISC.

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
2/18/91	Vent Dust	5 lbs.	Able Plastics

ABERDEEN CHEMICAL PLANT INJURIES

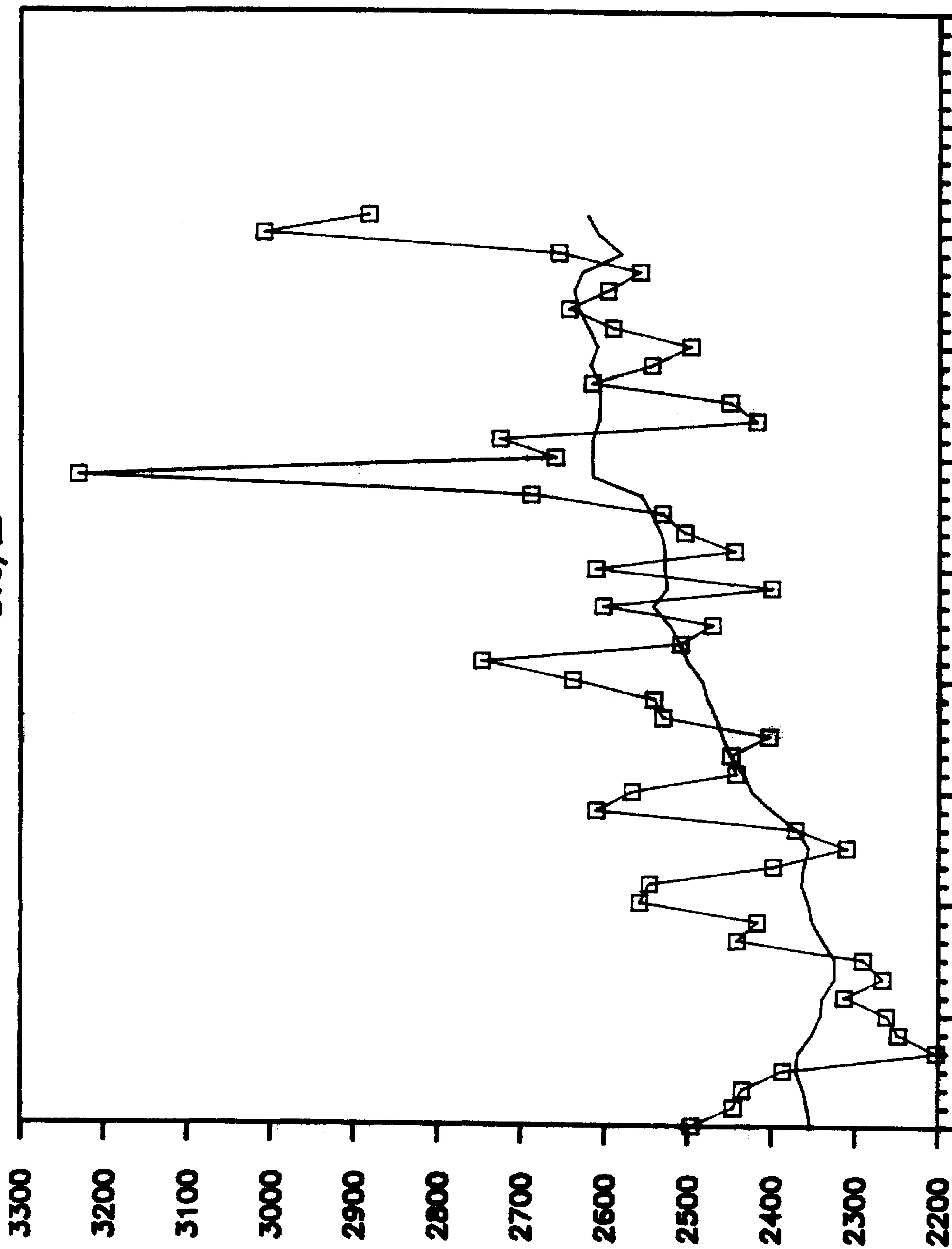
(Twelve Month Running Totals)



—■— TOTAL INJURIES —+— OSHA RECORDABLE

ABERDEEN ENERGY CONSUMPTION

BTU/LB



JAN 87 JUL 87 JAN 88 JUL 88 JAN 89 JUL 89 JAN 90 JUL 90 JAN 91 ERR

MONTH
 □ MONTHLY
 — 12 MONTH AVERAGE