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To: T. H. Huffman

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

Subject: **ABERDEEN MONTHLY PROGRESS REPORT
AUGUST, 1991**

VISTA

Interoffice
Communication

Safety

There were four first aid injuries reported during August. A new housekeeping program, Operation Cleansweep, began this month. Everyone was trained in housekeeping standards, and then cleanup of areas designated by natural teams was started. As of August 31, the plant's employees completed 4440 days (5,943,784 manhours) since the last lost time injury.

<u>FY1991 Key Statistical Information</u>	<u>Aug.</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	38.3	420.3
Reactor Stream Factor, %	91.0	86.2
Resin Quality, % Prime	95.4	97.9
VCM Efficiency, Lbs./Lb.	1.0412	1.0242
Flexible Compound Production, MM Lbs.	5.7	53.6
Flexible Compound Quality, % Prime	98.3	97.1
Plasticizer Production, MM Lbs.	1.4	16.8
Plasticizer Quality, % Prime	84.9	84.2
Energy Use, (EUI, %)	< 19.5>	< 11.6>
Fixed Cost Variance, \$M	< 87.5>	< 271.4>
Variable Cost Efficiency Variance, \$M	15.6	< 200.8>

Operations

The resin unit ran well. Some problems related to the new DCS in the New Module were encountered and corrected. Conversion of the Old Module is scheduled to begin in early October.

The flexible compound schedule remains tight. Rates in the rigid unit were reduced to closely monitor quality and to produce the new Dayton product (RP152) which runs slower due to cooling limitations.

Costs

Variable efficiency variances were essentially at budget.

Fixed costs were unfavorable due to MM&C charges related to the July turnaround and plant painting.

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QMP

- The Compound "B" Shift presented their stabilizer spill reduction project to management. This project reduces the amount of this hazardous waste by 42% and reduces costs by \$11,000 per year.
- Southwire's CEO visited the plant to present Vista Southwire's Excellent Supplier Award. Vista is the first and only Southwire supplier to receive this highest rating.
- Nibco, a resin customer, performed an audit of the plant on August 6. Our quality system received a 98% rating, and we are now considered a "certified" supplier by Nibco.

On August 27, a group of Nibco employees met with us to formalize communication channels, determine action on items of common interest, discuss D.O.E. for Nibco's priority quality concerns, and discuss pellet quality.

Environmental

- Two VCM leaks occurred on August 16 and they were reported to the National Response Center, as a precaution. The first incident, an approximate three-pound leak, occurred when a drain plug in a recovery compressor vibrated out. The second, a leak of approximately forty-six pounds, involved a line rupturing at a weld spilling unstripped slurry.
- Results from DuPont Environmental Remediation Services (DERS) confirmed previously detected methylene chloride, acetone, etc. in groundwater samples were lab relics. VCM was again found in shallow groundwater south of the New Module. Additional sampling to determine the extent of VCM contamination south of the New Module is planned to begin in September.

T. H. Huffman

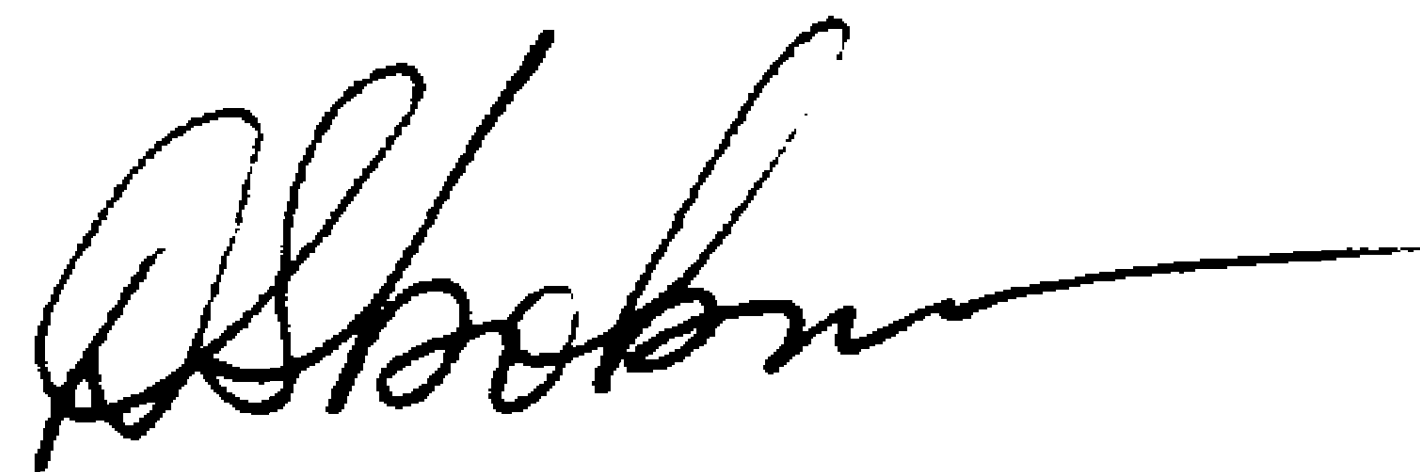
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Environmental - Continued

- We provided Conoco an estimate of \$1.8MM to reclaim the resin in old pond #2.
- A contractor was selected to remove buried drums near the wastewater treatment plant. A plan for drum removal and site cleanup was submitted to MDEQ for approval. Work is scheduled to begin in October or November.



D. C. Skokna
Plant Superintendent

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

SAFETY - B. L. Trego

	<u>Aug.</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>	<u>Fiscal</u> <u>Y.T.D. 1990</u>
First Aid	4	16	15
OSHA Recordable	<u>0</u>	<u>7</u>	<u>5</u>
Total Injuries	4	23	20
Number of Restricted Workday Cases	0	4	3
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	1	4	0
Compound Operations	2	7	5
Maintenance	1	10	13
Laboratory	0	0	1
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>2</u>	<u>1</u>
Totals	4	23	20

Injuries by Type

Cuts and Abrasions	3	9	7
Eye Injuries	0	1	1
Burns	1	4	4
Bruises	0	3	2
Strains/Sprains	0	3	1
Stings	0	0	3
Other	<u>0</u>	<u>3</u>	<u>2</u>
Totals	4	23	20

Non-Occupational Injuries

Lost Workday Cases	0	6	8
Days Lost	0	127	201

Contractor Injuries

First Aid Cases	0	4	--
Medical Treatment Cases	0	1	--
Lost Workday Cases	0	1	--

Safety Record

Last lost time injury - 7/5/79
Days since - 4,440
Employee hours since - 5,943,784

On August 30, 1991, the employees of the Aberdeen plant completed 4,440 days with no lost time injury.

SAFETY - Continued

Topics for plant safety meetings during the month included: CPR and Operation Clean Sweep.

A new housekeeping program called Operation Clean Sweep began this month. All employees were trained in housekeeping skills for their August safety training. They then cleaned up their designated plant areas.

An emergency drill involving a maintenance worker with a simulated heart attack went well.

Supervisors' brown bag safety lunches are going well. One per month is held.

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	81	98.8	0	1.2
Lead	9	100.0	0	0
Total Particulates	4	100.0	0	0

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Compound	First degree burn, upper right arm.
FA	Maintenance	Cut, left "ring" finger.
FA	Vinyl	Scratch, left elbow.
FA	Compound	Cut, left "middle" finger.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

All of the plant's natural teams met during August. Some of the teams' highlights for the month were:

- Compound "B" Shift Natural Team made a presentation to management on August 28. The team presented results of their project to reduce the amount of stabilizer hazardous waste generation. The team described the action steps completed and procedures implemented that resulted in a 42% reduction in stabilizer hazardous waste from the baseline period (second quarter 1988 to third quarter 1990) to the present period (fourth quarter 1990 to third quarter 1991).

This 42% reduction positively impacts the environment, safety and productivity - as well as saving nearly \$11,000 per year on stabilizer and disposal costs.

- Most of our teams were busy this month completing assignments for Operation Clean Sweep. Clean Sweep is a plant-wide housekeeping project with areas of the plant assigned to each natural team.
- Southwire's management visited the Aberdeen Plant on August 1 to present our employees with the Southwire Excellent Supplier Award. In attendance from Southwire were: Roy Richards, President and CEO; Wayne McAmis, Senior Vice President and General Manager Wire and Cable Division; Melinda Jones, Supplier Excellence Manager; Jack McLendon, Purchasing Agent; Tom Robertson, Compound Development Manager; and Wayne Posey, Plastics Blending Manager.

In addition to approximately seventy-five plant personnel, Vista was represented by Jim Ball, Senior Vice President - Commercial; Wayne Hilgers, Manager - Quality Development; and Charles Matson, Manager of Marketing - Polymers Resins.

Vista is the first and only Southwire Supplier to receive this highest rating in the Southwire program.

- On August 6, Lou Macakanja, Purchasing Quality Engineer for Nibco, Inc., conducted a Quality Systems audit of the Aberdeen Plant. Our Quality Systems received a rating in excess of 98% and are now considered "certified" by Nibco.

QUALITY MANAGEMENT PROCESS - Continued

- On August 16, Southwire employees, Darrell Smith, Manufacturing Engineering Manager, and Steve Bohannon, Engineering Manager visited the Aberdeen Plant. The purpose of their visit was to gain familiarity with our plant and processes and discuss areas of mutual interest with Aberdeen operations and engineering personnel.
- Nibco, Inc. visited the plant on August 27. Nibco attendees included John Rouch, Plastic Division Project Engineer; Richard Kauffman, Plant Services-Greensboro; Todd Nowicki, Director of Manufacturing; and Wil Pinto, Corporate Chemical Engineer.

The purpose of the meeting was to formalize communication channels, determine action on items of mutual interest, discuss DOE application to priority quality concerns and discuss pellet quality.

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>August, 1991 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	<\$52.4>	\$537.9	\$485.5
Flexible Compound	12.2	< 317.1>	< 304.9>
Rigid Compound	10.3	< 72.2>	< 61.9>
Plasticizer	45.5	< 90.7>	< 45.2>
Total	\$15.6	\$ 57.9	\$ 73.5

Resin

Utility usage was above budget.

Flexible and Rigid Compounds

Efficiencies were essentially at budget.

Plasticizer

Raw material consumption was favorable.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	\$486.7
■ Natural Gas	43.7
■ Phthalic Anhydride	27.2
■ Resin to Rigid Compound	< 76.7>
■ Resin to Flexible Compound	< 81.0>
■ Alcohols	<130.6>
■ Plasticizers	<175.4>
■ Other Price Variances	< 8.8>
Total	\$ 57.9

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	\$13.6
■ MM&C	< 94.3>
■ Miscellaneous	3.8
■ TI&D	< 7.8>
■ Clearances	< 2.8>
Total	<\$ 87.5>

Payroll and Benefits - A favorable payroll variance of \$29.2M was partially offset by an unfavorable benefits variance of \$15.6M.

MM&C - Turnaround costs and contract painting caused the unfavorable variance. Year-to-date this category is \$285.7M favorable.

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

Safety

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

The monthly safety meetings were concentrated on "Operation Cleansweep". Each shift was assigned specific plant areas for cleanup.

General

1. VCSM project prepared for a late August conversion. The date was moved to October 4th due to inventory. The team focused on optimization and documentation.
2. The slurry dump line developed a leak while splitting a batch due to incorrect charge amounts. The line was repaired and procedures changed to eliminate this problem.
3. Preliminary testing of a closed dump system was completed. A full test is planned for mid-September.

	<u>Aug.</u>	<u>YTD</u>
- Production, MM Lbs.	38.3	420.3
- Daily Rate, M Lbs./C.D.	1235.5	1254.6
- Capacity Utilization Factor, %	96.7	98.4
- Total Reactor Charges	907.0	9858.0
- Charges/C.D.	29.3	29.4
- Reactor Stream Factor, %	91.0	86.2
- Rotary Dryer Stream Factor (#4-#8), %	94.6	90.7
- Fluid Bed Dryer Stream Factor, %	95.6	90.2
- Resin Quality, % Prime	95.4	97.9

Reactor Downtime

	<u>Hours</u>
■ Operational downtime (recovery scheduling conflicts, charge/rinse water conflicts, Q.C. data delays, and dump conflicts).	471.0
■ Maintenance downtime (hydroblast D-700 condenser, New Module slurry dump line repairs, hydroblast D-742 condenser, low of steam due to boilerhouse trouble, D-300 rupture disc, polyvic valve on D-745, D-700 seal change, PM D-743 gearbox, change D-743 drive shaft, PM D-500 gearbox, change D-745 rinse nozzle, PM D-600 gearbox, and D-700 evacuation valve transition piece.	196.0

VINYL - Continued

<u>Dryer Time</u>	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	35.4
■ Maintenance downtime (dryer PM).	12.2
■ Reactor limited production.	52.3

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

1. The reactor seal on D-700 was changed. Failure was due to the flush line plugging with resin.
2. Condensers on reactors D-700, D-742 and D-744 were drilled to control contamination.
3. The drive shaft on D-743 was replaced due to wear.
4. Annual rupture disc changeout on D-300 was completed.
5. The wet end boot of the #7 Bird centrifuge was badly worn and was replaced.
6. Trunions on dryers #4 and #6 were changed out.
7. The faulty low flow shutdown switch on the east incinerator was changed.
8. One major valve was changed in the vinyl unit.

COMPOUND - S. C. Hillman, M. R. Kane

Safety

The Compound Department had no OSHA recordable injuries in August.

General

Orders remain tight on all production lines although there are some signs of lower orders on Line I. Close monitoring of dry blend product quality has caused 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	1878	61	18269
Line III	31	3267	105	31541
Line V	10.5	<u>513</u>	<u>49</u>	<u>3795</u>
Total		5658	183	53602
% Prime		98.3		97.1
Capacity Utilization Factor		72.3		62.5

Downtime

Hours

Line I

- Product Changes	107
- One Dicer Offline	56
- Miscellaneous Maintenance	28

Line III

- Product Changes	108
- Miscellaneous Maintenance	23
- Quality	7

Line V

- Product Changes	23
- Miscellaneous Maintenance	16

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	30.5	3339	109	48895
% Prime		96.8		99.0
Capacity Utilization Factor		46.2		72.1

Downtime**Hours**

- Quality Problems & Control	94
- Running One Blender	85
- Miscellaneous Maintenance	57
- Product Changes	41

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	31	1406	43	16813
% Prime		84.9		84.2
Capacity Utilization Factor		63.4		76.6

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

1. The bearings and shaft on the #1 boiler feedwater pump were replaced due to wear.
2. The #1 boiler feedwater pump was rebuilt and mechanical seals were installed to reduce leakage.

ENGINEERING - J. E. Nickerson, M. L. Carter

PROJECTS IN DEVELOPMENT - GENERAL

VCSM

Converting the Old Module equipment from the old control room to the DCS system is scheduled to start October 5. Initial loop checks for the Old Module are 85% complete.

VCM monitors and other common equipment alarms have been switched over to the new system during the month.

Dry Blend Oversize Problems

A DOE was performed on the dry blend line to determine the effect of processing variables on oversized particles. The response chosen was significant. Results from the DOE were used to plan another test run to determine the effect of transfer temperature on oversized particle formation. Low transfer temperature is responsible for impaired product rates.

Vinyl Cooling Tower Performance Evaluation

Performance testing of the vinyl cooling towers concluded in early August and the data is being evaluated. The results will be used to determine necessary changes to meet current and future cooling limitations.

ABERDEEN CHEMICAL PLANT
APPROVED CAPITAL PROJECTS

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ENGINEERING - M.L. CARTER

APP NUMBER	PROJECT DESCRIPTION	STATUS
2818	PLANT ELECTRICAL UPGRADE	PROJECT HAS BEEN COMPLETED AND TARGETED FOR FIELD CLOSURE 10-15-91
2848	VINYL CONTROL SYSTEM MODERNIZATION	N.M. CONVERSION WAS MADE IN JULY T/A - S.M. CONVERSION SCHEDULED FOR OCT.
2809	INERTS REMOVAL MODIFICATIONS	PLACED IN OPERATION 8-91. TARGETED FIELD CLOSURE NOV 91
2891	DRYBLEND SAMPLE LINE	FIELD CONSTR. TARGETED FOR 9-91. TARGETED COMPLETION 11-91
2811	VCM UNLOADING MODIFICATIONS	DESIGN PACKAGE IS IN PROGRESS. MATERIALS HAVE BEEN PLACED ON ORDER
2851	RAILCAR ACCESS PLATFORMS	PLACED IN OPERATION 9-91. TARGETED FIELD CLOSURE NOV 91
2870	OLD MODULE RECOVERY SYSTEM ACCESS	PREFAB WORK IN PROGRESS. PLANNED FOR OLD MODULE OUTAGE IN OCT.
2880	RECOVERY VACUUM PUMP PRESSURE REL.	N.M. WORK WAS COMPLETED JULY T/A - S.M. WORK PLANNED FOR OCT T/A
2806	PLASTICIZER LOADING & UNLOADING MOD.	PLACED IN OPERATION 8-91. TARGETED FIELD CLOSURE NOV 91
2848	LEAD HANDLING AND EXPOSURE REDUCTION	PROCESS ENGINEERING IS MONITORING MODIFICATIONS.
2849	COMPOUND LINE 3 SEMI-BULK LEAD HANDLING	MODIFICATIONS HAVE BEEN MADE. A TEST RUN HAS BEEN SCHEDULED
2858	COMPOUND SILE BRIDGE BREAKING	PROJECT HAS BEEN CLOSED TO FIELD CHARGES 8-91 FINAL REPORT.
2899	RAILCAR CLEANING RACK	PLACED IN OPERATION 8-91. TARGETED FIELD CLOSURE NOV 91
2851	DRY BLEND SCREENERS REPLACEMENT	SCREENERS SCHEDULED TO BE IN PLANT 9-91 MECH. AND ELECT. DESIGN COMPLETE
2850	5305 RESIDUAL VCM REDUCTION	PROJECT IS TARGETED TO BE PLACED IN OPERATION IN OCT 91
2860	DECALCIFIED WATER	NEW FILTERS ON ORDER TARGETED COMPLETION FOR 4TH QTR. FY 91
2779	DRYERS NO.4 & 5 CONTAMINATION REDUCTION	PROJECT HAS BEEN CLOSED TO FIELD CHARGES 8-91 FINAL REPORT.
2860	TC SPILL CONTAINMENT	PROJECT HAS BEEN COMPLETED AND TARGETED FOR FIELD CLOSURE 10-15-91
2861	WASTEWATER INFLUENT EQUALIZATION	CONSTRUCTION IS CURRENTLY IN PROGRESS. TARGETED OPERATIONAL MID SEPT. FY 91
2810	TC COMPLIANCE PROJECT	PROJECT HAS BEEN COMPLETED AND TARGETED FOR FIELD CLOSURE 10-15-91
2880	REACTOR SLURRY STRIPPING OPTIMIZATION	N.M. WORK WAS COMPLETED JULY T/A - S.M. WORK PLANNED FOR OCT T/A
2889	NEW DRYER BAGHOUSES	MODIFICATION OF MEMBRANE BACKING IS SCHEDULED FOR OCT OUTAGE.
2808	PLANT WATER RECYCLE	PROJECT IS TARGETED TO BE PLACED IN OPERATION IN 9-91
2800	PLANT WATER SYSTEM	I & E ENG. IN PROGRESS. CIVIL AND SITE CONSTRUCTION IN PROGRESS
2801	MISCELLANEOUS CAPITAL PROJECTS	22 PROJECTS APPROVED. 22 COMPLETED. 22 IN PROGRESS BY 10 PROJECTS.
2810	WEST INCINERATOR REPLACEMENT	INCINERATOR INSTALLED. PROJECT COMPLETION TARGETED FOR 10-91
2831	BOILER FEEDWATER TANK REPLACEMENT	NEW TANK HAS BEEN INSTALLED. MINOR SAFETY AUDIT ITEMS REMAINING
2841	PVC GEARBOX REPLACEMENT	THE NEW GEARBOX HAS ARRIVED IN THE PLANT.
2871	D-745 RX DRIVE SHAFT REPL	CURRENTLY WORKING WITH VENDORS ON PRICING
2801	SPARE LARGE RX AGITATOR MOTOR	CURRENTLY WORKING WITH VENDORS ON PRICING
2801	GAS CHROMATOGRAPH UPGRADE	PROJECT WAS APPROVED IN JULY FY 91
2820	EAST INCINERATOR REPLACEMENT	INCINERATOR DELIVERED. PROJECT COMPLETION PLANNED FOR 11-91.

ENVIRONMENTAL - K. G. Akins

Water

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

Work continues on gathering information necessary for submitting the storm water permit application due November 18, 1991. We have five unpermitted storm water outfalls that will be covered by these regulations.

A wastewater bypass occurred during testing of the Old Module deluge system on August 22, 1991. A process sewer west of V-10 overflowed to a storm sewer. The MDEQ was notified.

Superfund

Results from DuPont Environmental Remediation Services (DERS) resampling of the groundwater, soils, and sediments were received. The results confirmed that previous detections of methylene chloride, acetone, etc., were lab relics. VCM was still detected in the shallow groundwater south of the New Module. The concentration was 0.5 ppm versus 3.5 ppm during the first round of sampling. Phthalates were detected in every deep well during the last sampling. This contradicts the earlier sampling in which phthalates were present in only one deep well. DERS believes the water samples could have been contaminated by vinyl tubing that was mistakenly used during the second sampling.

These wells will be resampled (at DERS' expense) the week of September 16, 1991. At the same time, further investigation will be done to determine the extent, if any, to which the shallow groundwater is contaminated with VCM south of the New Module.

Aberdeen Process Engineering revised the estimate of the cost to Conoco for Vista drying resin excavated from Pond 2 using our existing resin reclaim system. The new estimate was \$1.77MM with \$107M required up front to prepare the system for operation as required for this project.

ENSR was selected as the vendor to remove the drums buried near the wastewater treatment system. A work plan for drum removal and site clean up will be submitted to MDEQ for approval with work scheduled to begin in October or November.

ENVIRONMENTAL - Continued

General

Two vinyl chloride leaks were reported to the National Response Center on August 16, 1991. Because these were leaks and not releases and posed no threat to anyone outside plant boundaries, we were not required to report. The reports were filed as a precaution. The first incident involved a plug in a recovery compressor casing that vibrated out. Water saturated with approximately three pounds of VCM leaked from the casing plug before being stopped. The second incident involved a line rupturing along a weld spilling unstripped slurry containing about 46 pounds of VCM.

During excavation for the new water plant, two drums were uncovered. The drums appeared to contain a heavy weight lube oil. The contents of the drums along with the contaminated soil were transferred to new drums. Conoco was notified that the drums would be held for disposal with other drums removed from the old drum burial site near the waste water treatment system.

Waste

There were no waste shipments during the month of August.

ENERGY CONSERVATION - J. R. Ganc

	<u>Aug., 1991</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 21.0%>	< 12.4%>
B. Adjusted EUI	< 19.5%>	< 11.6%>
C. BTU/Lb. Product	3047.2	2803.1
D. Total Energy Consumption MMM BTU	149.1	1505.0

II. Boiler Operation

	<u>Combustion Efficiency %</u>	
<u>Boiler</u>	<u>Aug., 1991</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.2%	83.2%
No. 2	83.3%	83.4%
No. 3	82.6%	82.8%

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

William Berlin Genetti - New Hire - Engineering Co-op Student.

William Dwight McComb, Jr. - New Hire - Engineering Co-op Student.

Promotions/Transfers

Amy E. Bagwell - Production Scheduler, transferred and promoted to Lab Supervisor replacing Billy Paul Sizemore.

RETIREMENTS

None.

TERMINATIONS/RESIGNATIONS

Holli Harris - Engineering Co-op Student returned to school.

Michael Schneider - Engineering Co-op Student returned to school.

TO/FROM LEAVE OF ABSENCE

Allan Bodron - Engineering Co-op Student - Educational Leave of Absence.

ABERDEEN PLANT

MONTHLY PERSONNEL REPORT

AUGUST, 1991

<u>EMPLOYMENT</u>		<u>NEW HIRES</u>		<u>MO</u>	<u>YTD</u>
Salaried	74	Salaried/Transfer		0	0
Hourly	165	Hourly		0	0
Temporary	2	Temporary		2	5
SUB TOTAL	241	TOTAL		2	5
L.O.A.	1				
TOTAL	242				

DEPARTMENTS	#EMPLOYEES	M	F	%M	%F	DEPARTMENT TURNOVER		ANN. %
						MO.	YTD	
WAREHOUSE	15	9	0	60%	0	0	0	0
GENERAL PLANT	11	5	0	45%	0	0	1	13.6%
MAINTENANCE	39	8	0	20.5%	0	0	0	0
LABORATORY	24	5	2	20.8%	8.3%	0	0	0
COMPOUND	38	23	1	59%	2.6%	0	4	15.8%
VINYL	33	10	1	30%	3.0%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	165	62	4	37.6%	2.4%			
SALARIED	74	7	18	9.5%	24.3%			

<u>APPLICATIONS</u>	<u>No.</u>	<u>%</u>	<u>PLANT TURNOVER</u>	<u>No</u>	<u>%</u>
Month	0	0	Hourly Month	0	0
YTD	0	0	YTD	4	3.6%
Minority	0	0	Salaried Month	0	0
Female	0	0	YTD	6	12.2%

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

Pay Period ending September 1, 1991

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

Pay Period ending September 1, 1991

VAB.0001189587

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

There were no reportable safety instances this month.

Quality

All natural teams met in August

OASIS Progress

We are still experiencing problems with monthly closing of the OASIS system.

Statistics

<u>Processed</u>	<u>Month</u>	<u>Y.T.D.</u>
Processed Invoices	1186	10345
Working Fund Checks Written	15	142
Cost Savings Through Bid Process	\$5172	\$28590
Raw Material Purchase Orders Issued	116	997
MRO/AFE Purchase Orders Issued	236	1986
Spare Parts Purchase Orders Issued	165	1931

Packaged Finished Goods Ending Inventory

	<u>July, 1991</u>	<u>Aug., 1991</u>	<u>(Decrease) /Increase</u>	<u>% Change</u>
Compound "A" Grade	3,580,700	4,309,548	728,848	20
PLENEX	96,292	85,626	< 10,666>	<11>
Compound Off-Grade (BC)	329,086	365,738	36,652	11
Compound Off-Grade (H)	151,348	182,848	31,500	21
Millscrap	87,278	117,408	< 69,870>	<37>
Dry Blend "A" Grade	509,092	537,998	28,906	6
Dry Blend Offgrade	244,754	356,699	111,945	46
Resin Type I	485,306	731,450	246,144	50
Resin Type "BC"	100	100	0	0
Vacuum Dust	<u>161,533</u>	<u>172,939</u>	<u>11,406</u>	<u>7</u>
Total Packaged Warehouse	5,745,489	6,860,354	1,114,865	19

ADMINISTRATIVE SERVICES - Continued

Bulk Finished Goods Ending Inventory

	<u>July, 1991</u>	<u>Aug., 1991</u>	<u>(Decrease)</u> <u>/Increase</u>	<u>%</u> <u>Change</u>
Compound "A" Grade	1,119,270	643,615	<475,655>	<42>
Compound Offgrade	177,500	177,500	0	0
Dry Blend "A" Grade	2,850,600	2,984,939	134,339	5
Dry Blend Offgrade	1,112,560	1,112,560	0	0
Resin "A" Grade	10,450,500	11,179,589	729,089	7
Resin Offgrade	<u>1,385,100</u>	<u>1,775,473</u>	<u>390,373</u>	<u>28</u>
Total	17,095,530	17,873,676	778,146	4

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
AUGUST 1991

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	19,007,510	15,144,480	0	212,334,182	139,105,110	1,777,400
RESIN-PACKAGED	578,837	285,850	0	3,260,833	2,341,950	0
FLEXIBLE COMPOUND-BULK	232,010	2,000,700	0	6,660,895	15,117,540	0
FLEXIBLE COMPOUND-PACKAGED	3,254,581	0	0	33,567,247	832,470	0
NEW BUSINESS	8,016	0	0	135,575	0	0
RIGID COMPOUND-BULK	1,857,450	618,396	0	33,742,280	6,893,996	0
RIGID COMPOUND-PACKAGED	509,679	126,445	0	4,303,941	906,801	0
RIGID COMPOUND-PELLETS	0	0	0	38,022	0	0
TOLLING - BULK	0	0	0	0	0	1,401,960
TOLLING - PACKAGED	0	0	0	0	0	33,600
PLASTICIZER	131,800	664,840	364,800	951,390	2,609,610	4,202,810
TOTAL	25,579,883	18,840,711	364,800	294,994,365	167,807,477	7,415,770
=====						
-SHIPMENTS BY MODE-						
BULK:						
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER			TOTAL
AUGUST						
RESIN	148	35	53			236
FLEXIBLE COMPOUND	11	0	5			16
RIGID COMPOUND	7	0	34			41
PLASTICIZER	5	0	6			11
TOTAL AUGUST	171	35	98			304
=====						
YTD						
RESIN	1,706	425	439			2,570
FLEXIBLE COMPOUND	114	0	49			163
RIGID COMPOUND	217	27	155			399
PLASTICIZER	28	29	37			94
TOTAL YTD	2,065	481	680			3,226
=====						
PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
AUGUST						
RESIN	3	24	0	0	0	27
FLEXIBLE COMPOUND	24	80	0	0	0	104
RIGID COMPOUND	1	18	0	0	0	19
PLASTICIZER	0	0	0	0	0	0
TOTAL AUGUST	28	122	0	0	0	150
=====						
YTD						
RESIN	35	157	0	0	52	244
FLEXIBLE COMPOUND	270	823	0	0	81	1,174
RIGID COMPOUND	10	164	0	0	4	178
PLASTICIZER	0	3	0	0	0	3
TOTAL YTD	315	1,147	0	0	137	1,599
=====						

CC: DAB,TLC,AEV,JRF

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09/01/91

ABERDEEN CHEMICAL PLANT

PRODUCT RETURNS

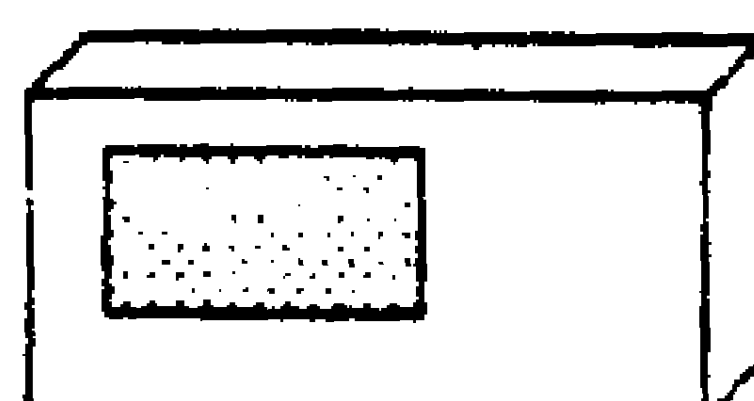
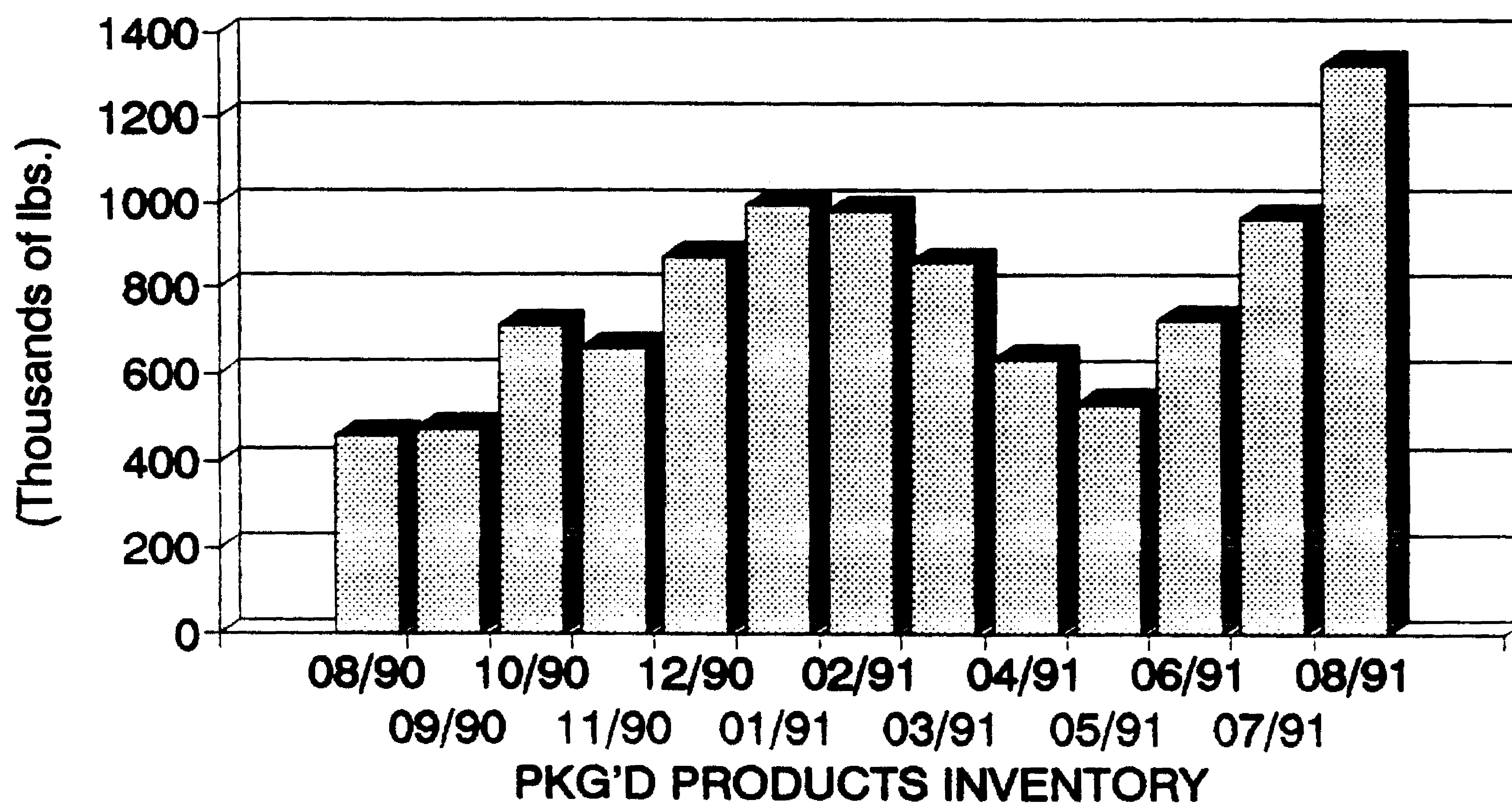
AUGUST 1991

DATE	CUSTOMER	LOCATION	PRODUCT	RESOURCE	DESCRIPTION	BLEND #	CONT.	LBS	CR #	SHIPPED	ORDER #	INVOICE #	DISPOSITION/REMARKS
08/02/91	COMPLEX	FL, ST AUGUSTINE	CMPO	?	452-129A BLK	F-10768	BOXES	1,746	02018	?	?		BLANE PROD.-FOR TEST'G THEN TO NEW CUST-P
08/02/91	COMPLEX	FL, ST AUGUSTINE	CMPO	?	452-139 BLK	6-10797	BOXES	1,303	02018	?	?		BLANE PROD.-SCRAP PER RICHARD (PLENEX)
08/02/91	COMPLEX	FL, ST AUGUSTINE	CMPO	?	34501 BLK260	F-10767	BOXES	1,528	02018	?	?		BLANE PROD.-FOR TEST'G THEN TO NEW CUST-P
								Sum					
								4,577					
08/26/91	DAYTON EXTRUDED	OH, MIANTSBURG	DB	14624	489-116 WHT140	1-480	BULK	41,840	02012	08/23/91	0001379-001		PRODUCT QUALITY
								Sum					
								41,840					
08/12/91	DYNA BULK	IL, ELK GROVE VLG	DB	1645-10	RP-23 WHT110	PLCY43700	BOXES	39,054	02019	05/16/91	906347-001	2239934	PRODUCT QUALITY (ROLLEX CORP.)
								Sum					
								39,054					
08/19/91	FLEXIBLE TECH	SC, ABBEVILLE	CMPO	13885	57121 WTLR327	11H25	BOXES	3,716	02021	07/17/91	0000316-000		QUALITY-MOISTURE
08/19/91	FLEXIBLE TECH	SC, ABBEVILLE	CMPO	13887	58031 WTLR328	11J17	BOXES	9,100	02021	07/18/91	0000532-000		QUALITY-CONTAMINATION
08/19/91	FLEXIBLE TECH	SC, ABBEVILLE	CMPO	13887	58031 WTLR328	11J17	BOXES	18,091	02021	07/29/91	0000649-000		QUALITY-CONTAMINATION
								Sum					
								30,907					
08/09/91	FORNTECH	OK, STON	DB	13496	RP-91 WHT110	41H23	BOXES	10,750	02017	07/24/91	0000688-000		MARGINAL QUALITY
								Sum					
								10,750					
08/19/91	PRESTOLITE	NE, SIDNEY	CMPO	9038-00	416-74-1	11630	BOXES	455	02022	07/02/91	0000458-000		EXPTL-DID NOT FIT CUST APPLICATION (PLENE
08/19/91	PRESTOLITE	NE, SIDNEY	CMPO	14582	416-74-1A	11H14	BAGS	895	02022	07/02/91	0000458-000		EXPTL-DID NOT FIT CUST APPLICATION (PLENE
								Sum					
								1,350					
08/16/91	UNIROVAL	IN, ELKHART	RESIN	10785	5305	04749	BAGS	20,250	02020	08/07/91	0001030-000		OUT OF SPEC ON I.V.
								Sum					
								20,250					
08/14/91	VISTA: UNION POINT	GA, UNION POINT	RESIN	10780	5265	VIP45856	BULK	177,850	02010	08/12/91	0000930-000		OUT OF SPEC ON I.V.-"A" & "C8"
								Sum					
								177,850					
								Sum					
								326,578					

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FLEXIBLE & RIGID OFF-GRADE

AUGUST '90 THRU AUGUST '91



LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during August.

B. Customer Contacts

Representatives from Southwire visited on 8/1 to present the Aberdeen Plant with the Excellent Supplier Award. Representatives from Nibco visited the plant on 8/27 to discuss technical issues and partnership agreements.

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

8/01 Flexible Technologies, Abbeville, SC

The customer complained of contamination in 58031 Wat Cl 328 compound causing lumps and grainy appearance on hoses. The contamination resembles crystallized Soya Epoxy. Samples are being analyzed in R&D Analytical.

8/01 Dayton Extruded Plastics, Miamisburg, OH

The customer complained of poor communication by Vista that a shipment of dry blend would not deliver on time.

8/06 Bee Wire & Cable, Whitten, CA

The customer complained that Visalia 2153 Natural compound had three UL failures. R&D Technical Service is investigating the problem.

8/07 Cerro Wire & Cable, Hartsville, AL

An Ergon truck driver mistakenly took a load of dry blend to a 5415 resin customer. A process was started which requires the driver to produce a bill of lading before picking up a shipment at the plant.

8/08 Thermal Industries, Pittsburgh, PA

Due to the lack of raw materials, a product shipment had to be delayed.

LABORATORY - Continued

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

8/08 Dayton Extruded Plastics, Miamisburg, OH

The customer complained that the first truck of 489-116 WHT 140 (new product) produced pitting on window profile caused by oversized particles.

8/12 Uniroyal Plastics, Mishawaka, IN

The customer complained of out of spec I.V. on three orders of resin. A process was started for lab release of bagged resin before any shipment is made.

8/13 Formtech, Bozart, GA

The customer complained of "shooting stars" in RP-91 WHT 110 finish profile. This material had been rejected at the Stowe plant and re-screened at Aberdeen.

8/14 Thermal Industries, Pittsburgh, PA

The customer complained that they were charged for the gross weight on the shipment instead of the net weight of 489-136A.

8/15 Northwire, Osceola, WI

The customer complained of wood chips in the pellets of 38601 Black. Samples were received of the PVC and wood chips sandwiched together.

8/15 Thermal Industries, Pittsburgh, PA

Again, Vista delayed shipment of this material (see CNR above) and was forced to pay overtime for help at the unloading dock to receive the shipment Friday night.

LABORATORY - Continued

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

8/16 Elecon, Venezuela

The customer complained of 35451 which failed I.R. testing. This material was made in September of 1990 following a compound which had Soya Epoxy in it. Soya Epoxy is very detrimental to I.R. The plant has started a flushout procedure after Soya Epoxy is used so that the cross contamination in the plasticizer line will not harm wire and cable compounds.

8/20 Flexible Technologies, Abbeville, SC

The customer complained that 46801 Black compound did not adhere. R&D Technical Service investigated the problem and it was discovered that the solvent used at Flex Tech caused the problem.

8/21 Thermal Industries, Pittsburgh, PA

The customer complained that a shipment expected at 7:00 but delivered at 10:00 was not a problem this time, but could have been a big problem. Also, the next weights on the boxes of BGE product did not add up to the weight on the bill of lading.

8/21 Thermal Industries, Pittsburgh, PA

The customer complained that Vista shipped only 13,000 pounds of BGE 347 against an order for 20,000.

8/23 Northwire, Osceola, WI

The customer complained of metal in 38601 Black compound. Analysis of samples showed the metal to be aluminum.

8/23 Northwire, Osceola, WI

The customer complained of foreign material in 38601 Black compound. The sample looked like RTV (silicone sealant).

LABORATORY - Continued

D. Product Waivers

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Dayton	489-116 WHT 140	Color	3 H/T
Dayton	489-116 WHT 140	Color & Torque Rheometry	2 H/T
Vycom	RP-461 WHT 140	40 Mesh	2 H/T

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 August, 1991.

	<u>Reactor Slurries</u>	<u>Drier</u> <u>5265</u>	<u>5305</u>
Number of Samples	904	27	81
Average RVCM, ppm	71	0.078	0.195

RVCM of Shipment Samples

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

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM. ppm</u>
5225	2	0.009
5265	49	0.013
5305	161	0.048
5325	0	
5385	42	0.094
5395	9	0.016
5415	59	0.016
5465	2	0.008
Debox	14	0.126
Pond	12	0.057
Dry Blend	5	0.030

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	0.81	0.83	1.28	1.17	1.36
Inherent Viscosity	0.80	0.64	0.41	2.00	0.37
(vs. 0.64 - 0.67)	0.20	----	----	----	----
(vs. 0.715 - 0.744)	----	0.44	----	----	----
"L" Color	3.67	2.67	2.67	3.78	4.22
"a" Color	10.00	3.11	----	----	----
"b" Color	5.67	6.00	2.00	2.17	3.00
% on Pan	0.73	0.93	1.22	1.81	2.83
(vs. 2% max.)	----	----	----	----	0.33
% thru 140	0.91	1.06	1.69	1.57	3.72
Mets I.R.	----	----	----	3.08	4.95
(vs. 95% of Control)	----	----	----	----	2.38
Hard Particles, (% > 10)	----	----	6.9	0	2.9
Average Particle Size, Microns	141	144	166	152	174

G. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>%</u>	<u>M Lbs.</u>	<u>(%)</u>
Hardness	26.0	<0.43>	----	----
Color	51.7	<0.85>	12.5	<0.21>
Hard Particles			11.6	<0.19>
Heat Stability	5.0	<0.08>	----	----
Contamination	----	----	1.5	<0.02>
Dicing			15.6	<0.26>
METS-IR			30.0	<0.49>
Totals	82.7	<1.36>	71.2	<1.17>

H. Rigid Compound Quality Summary

	<u>Rejections</u>	
	<u>M Lbs.</u>	<u>(%)</u>
Torque Rheometry	14.2	<0.45>
Torque Rheometry & Contamination	15.0	<0.47>
Torque Rheometry, Contamination and Color	3.0	<0.09>
Color	33.9	<1.07>
Contamination	6.5	<0.20>
Total	72.6	<2.29>

LABORATORY - Continued

I. Miscellaneous

1. All natural teams met once during the month.
2. The software to link lab data to the vinyl VAX was completed in the following area:
 - A. RVCM data entry
 - B. Viscosity data entry and auto report
 - C. Regular Q.C. data entry

Work is still needed for Regulars report and the RVCM report.

3. The Perkin-Elmer RVCM analysis instrument failed for two days and required an outside repairman.
4. Assisted Administrative Services to track down cumulative IPA errors. Also, helped set up a terminal for OASIS.

SAMPLE SHIPMENTS

AUGUST 1991

RESIN

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
8/01/91	5395	50 lbs.	Baerlocher USA
8/07/91	5325	10 lbs.	C. E. Shepherd
8/13/91	5225	100 lbs.	Novatech Plastics Co.
8/19/91	5225	50 lbs.	Congoleum
8/21/91	5415	100 lbs.	American Thermo
8/22/91	5225	2 lbs.	Hemisphere
	5325	2 lbs.	
8/22/91	5385	500 lbs.	Eri Extrusion
8/28/91	5385	50 lbs.	INEX S.A. DE C.V.
8/30/91	5385	10 lbs.	Akzo Chemical
8/30/91	Pond	50 lbs.	Hawk Plastics

COMPOUND

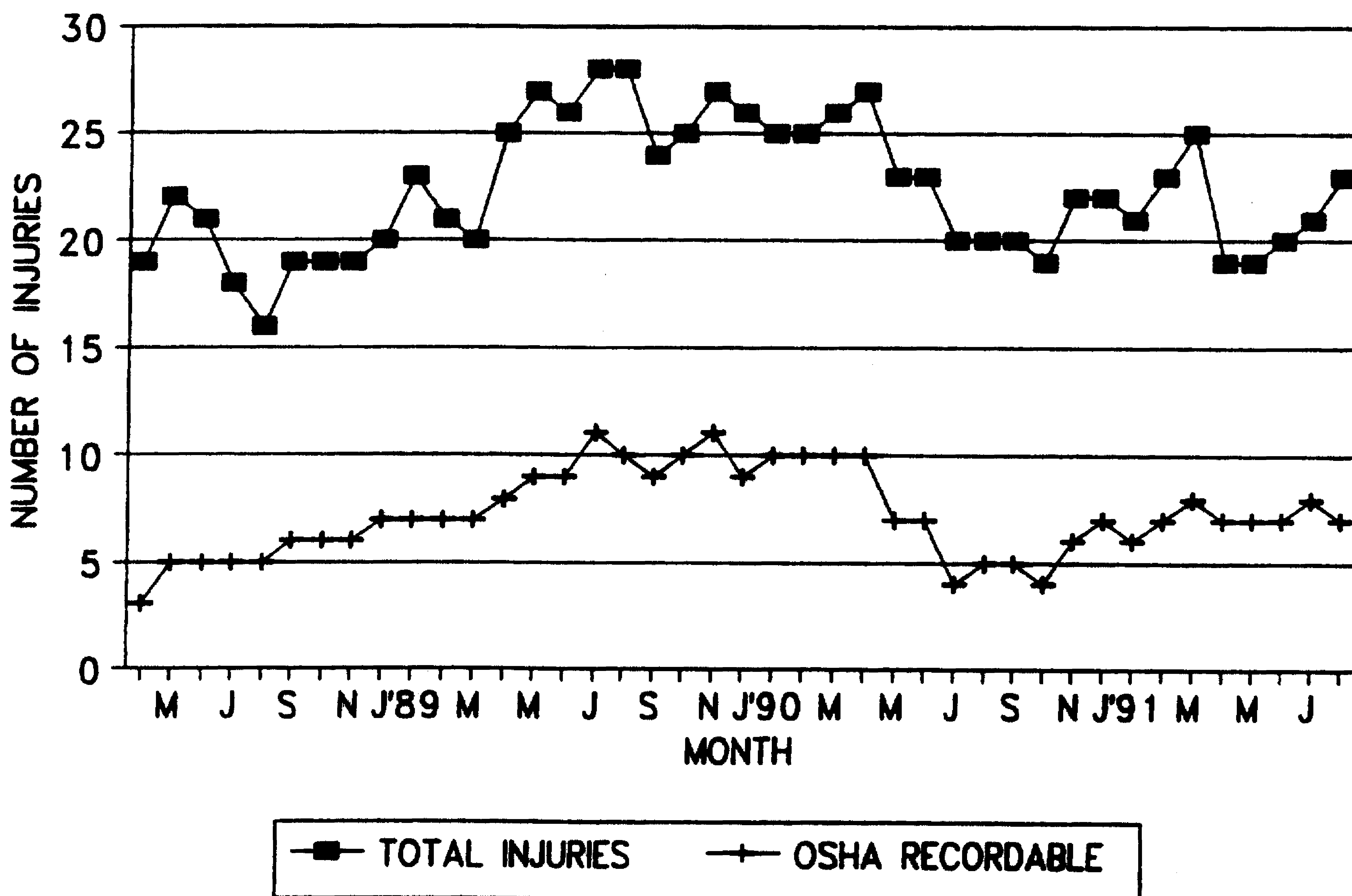
<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
8/08/91	16851 CB 50	100 lbs.	Vista - Austin
8/15/91	35852 NAT	200 lbs.	Chicago Magnet Wire Corp.
8/19/91	58162 BLK	100 lbs.	Vista - Austin
8/21/91	462-143 BLK	500 lbs.	Donnelly Corporation
8/22/91	462-34-B BLK	500 lbs.	Donnelly Corporation
8/22/91	57121 WAT CL	150 lbs.	Accurate Extrusions
8/30/91	487-5A NAT	5 lbs.	Essex Group Inc.
8/30/91	487-5A NAT	5 lbs.	Vista - Austin

DRYBLEND

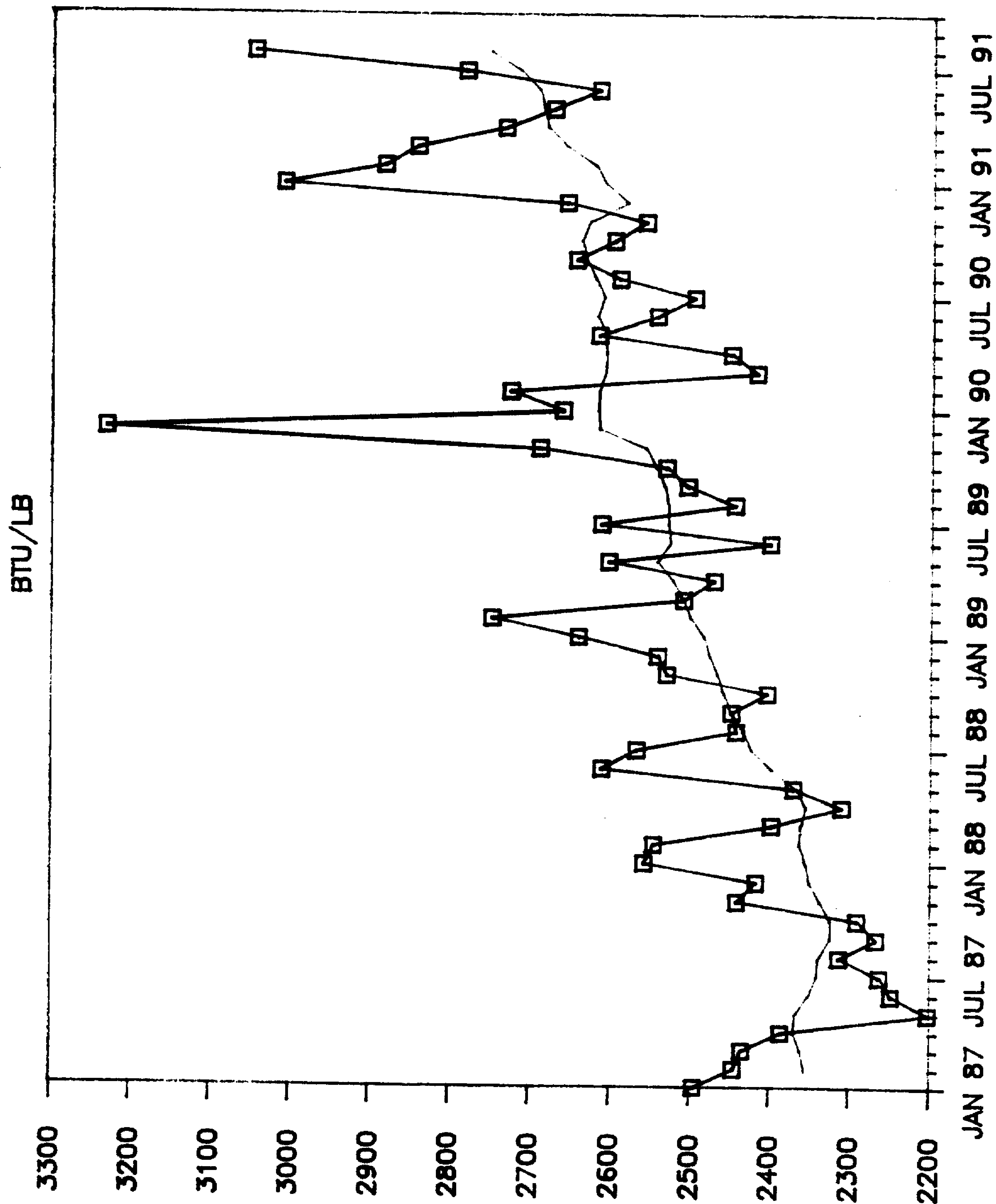
<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
8/16/91	378-143 Purge	50 lbs.	Nibco, Inc.

ABERDEEN CHEMICAL PLANT INJURIES

(Twelve Month Running Totals)



ABERDEEN ENERGY CONSUMPTION



MONTHLY
 12 MONTH AVERAGE