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To: T. H. Huffman

From: D. C. Skokna
Date: July 29, 1991

Subject: ABERDEEN MONTHLY PROGRESS REPORT
JUNE, 1991

Interoffice
Communication

VISTA

Safety

There was one first aid case reported in June. At month's end, the plant's employees have worked 4378 days (5,856,295 manhours) since the last lost time injury.

FY1991 Key Statistical Information

	<u>June</u>	<u>Y.T.D.</u>
PVC Production, MM Lbs.	39.4	357.7
Reactor Stream Factor, %	98.6	98.2
Resin Quality, % Prime	93.8	88.8
VCM Efficiency, Lbs./Lb.	1.0091	1.0225
Flexible Compound Production, MM Lbs.	6.0	42.4
Flexible Compound Quality, % Prime	96.8	97.7
Rigid Compound Production, MM Lbs.	3.9	42.4
Rigid Compound Quality, % Prime	97.5	99.3
Plasticizer Production, MM Lbs.	1.5	14.0
Plasticizer Quality, % Prime	82.9	83.9
Energy Use, (EUI, %)	< 3.6>	< 7.6>
Fixed Cost Variance, \$M	< 274.7>	< 52.4>
Variable Cost Efficiency Variance, \$M	24.2	< 214.9>

Operations

The resin unit ran well during the month. Switchover to the VCSM control system in the new reactor module is scheduled to begin July 5.

Flexible compound production rates were high as orders remain tight.

Costs

Variable efficiency costs were near budget overall. This month's IPA was based on the first OASIS closing, and there may be some corrections to this close that will impact July variable costs.

T. H. Huffman

7/29/91

Aberdeen Monthly Progress Report - June, 1991

Page 2

Costs - Continued

Fixed costs were over budget due primarily to unfavorable variances in benefits, \$42.8M; taxes, \$96.1M; and warehouse gain/loss, \$204.0M. The tax variance is due to an unexpected \$96M charge that was a result of a State audit of sales/use taxes. The warehouse charge corrects errors that were caused by the VMS.

OMP

- The Vinyl "B" Shift Natural Team recommended changes that will make changing resin reclaim filters safer and more efficient.
- The Safety Supervisor's Natural Team recommended improvements to the maintenance call-in process. These recommendations reduce the time needed to make call-ins, and call-in errors will also be reduced. Since the new process was implemented, the time needed for call-in has been reduced 46% and no call-in errors have occurred.
- John Pace, Vice President of Manufacturing for NAPCO, visited the plant. NAPCO is a potential rigid compound customer.
- The Southwire Supplier Excellence Team visited the plant to discuss the new supplier excellence agreement and to learn more about how our natural and project teams work.

ENVIRONMENTAL

- We did not pass the June bioassay test of our wastewater. We passed a retest.
- The outfall pH fell below the permit limit of six for four hours; the minimum pH was 5.8.
- The 1990 SARA 313 inventory was completed. Results showed a sixteen percent reduction of VCM emissions; total reportable releases were thirty-three percent less than 1989.

T. H. Huffman

7/29/91

Aberdeen Monthly Progress Report - June, 1991

Page 3

ENVIRONMENTAL - Continued

- Joe Ledvina, Lynn Zimmerman, and Frank Jeanson held an environmental seminar in Aberdeen; twenty-five people attended.



D. C. Skokna
Plant Superintendent

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SAFETY - B. L. Trego

	<u>June</u>	<u>Fiscal</u> <u>Y.T.D. 1991</u>	<u>Fiscal</u> <u>Y.T.D. 1990</u>
First Aid	1	11	13
OSHA Recordable	<u>0</u>	<u>6</u>	<u>4</u>
Total Injuries	1	17	17
Number of Restricted Workday Cases	0	4	3
Number of Lost Workday Cases	0	0	0

Injuries by Department

Vinyl Operations	0	2	0
Compound Operations	0	5	5
Maintenance	1	8	10
Laboratory	0	0	1
Receiving/Warehouse	0	0	0
Office	<u>0</u>	<u>2</u>	<u>1</u>
Totals	1	17	17

Injuries by Type

Cuts and Abrasions	1	4	6
Eye Injuries	0	1	1
Burns	0	3	3
Bruises	0	3	2
Strains/Sprains	0	3	1
Stings	0	0	2
Other	<u>0</u>	<u>3</u>	<u>2</u>
Totals	1	17	17

Non-Occupational Injuries

Lost Workday Cases	0	6
Days Lost	0	127

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 - 4,378
Employee hours since - 5,856,295

On June 30, 1991, the employees of the Aberdeen plant completed 4378 days with no lost time injury.

SAFETY - Continued

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

An emergency drill involving a chlorine leak was held during this month.

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	11	100.0	0	0
Total Particulates	3	100.0	0	0

One of the VCM overexposures was with benefit of respiratory protection; the other without.

Monthly Injury Summary

<u>Injury Class</u>	<u>Department</u>	<u>Description</u>
FA	Maintenance	Bruises and abrasions left "ring" finger and left "little" finger.

QUALITY MANAGEMENT PROCESS - T. J. Arbeiter

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

- Vinyl B-shift made a presentation to Management on June 19. The team recommended changes to the resin reclaim filter housing that will facilitate the safe and expedient replacement of the filter.

The present design of the access door creates a safety hazard in that it is not hinged and can easily fall on an operator's foot while being removed.

The length of the filter housing will be increased by ten inches and the filter mounting rod will be welded in place to speed filter replacement.

- The Safety Supervisor's Natural Team made a presentation to Management on June 20. The goal of the team's project was to reduce the time spent making maintenance call-ins and reduce the likelihood of error by streamlining the recordkeeping system.

The team accomplished their goal by combining the call-in list and the call-in report into one document - the weekly schedule. The average time required for a maintenance call-in has been reduced by 46% and one report was eliminated completely. There have not been any reported call-in errors to date, although it is too early to pass judgement on this aspect of the new system.

John Pace, Vice President of Manufacturing for NAPCO visited the plant on June 5. NAPCO is in the process of building a vinyl siding manufacturing facility and is a potential dry blend customer.

The Southwire Supplier Excellence Team was in the plant on June 7 to discuss details of the new supplier excellence agreement and to learn more about the work our natural and project teams are doing.

The first two meetings of the Synergy Team were conducted during the month of June. The Synergy Team is comprised of the following individuals: Ken Campbell, A-Operator, Vinyl; Curley Payne, Lead Warehouse Worker; Charlie Holcomb, General Mechanic "A"; Melvin Tallie, Lead Technician; Don Whatley, Compound Operator; Jim Edwards, Chief Plant Chemist. The team is facilitated by Tim Arbeiter. The Synergy Team's mission statement is: "To enhance natural team participation and effectiveness by revealing barriers that inhibit participation, while exploring and creating alternative QMP methods".

COST VARIANCES - D. C. Skokna

Variable Costs

<u>Product</u>	<u>June, 1991 Variance, \$M</u>		
	<u>Efficiency</u>	<u>Price</u>	<u>Total</u>
PVC	\$102.4	\$1214.5	\$1316.9
Flexible Compound	< 60.9>	53.0	< 7.9>
Rigid Compound	< 45.2>	57.5	12.3
Plasticizer	< 27.9>	< 39.9>	< 12.0>
Total	\$ 24.2	\$1285.1	\$1309.3

NOTE: June's variances were calculated by the OASIS system. There are still some details to be worked out in the closing process. Some error may have been introduced in the switchover to the new system.

Major Price Variances:

	<u>Variance - \$M</u>
■ VCM	\$1296.6
■ Resin to Rigid Compound	61.2
■ Resin to Flexible Compound	58.3
■ Phthalic Anhydride	15.6
■ Alfol [®] Alcohols	< 56.4>
■ Natural Gas	< 72.2>
■ Other Price Variances	< 18.0>
Total	\$1285.1

Fixed Cost Variances

	<u>Variance - \$M</u>
■ Payroll and Benefits	<\$ 11.3>
■ MM&C	55.2
■ Miscellaneous	< 230.7>
■ TI&D	< 87.9>
■ Clearances	0
Total	<\$274.7>

Payroll and Benefits - A favorable maintenance payroll of \$38M that was a correction of VMS errors was offset by an unfavorable benefits clearance of \$42.8M.

MM&C - Continued cost control efforts minimized activity in this area.

Miscellaneous - The main cause of this month's unfavorable variance was a \$204.3M warehouse loss charge that was taken to correct for VMS caused errors. Materials taken out of the warehouse have been charged at lower than actual value due to VMS problems. These problems will be corrected.

COST VARIANCES - Continued

T.I. & D.

A \$96.1M charge was taken as a result of a State audit of our sales and use taxes. This total represents what the State has found for 1989 and an estimate of possible liability for 1990 and 1991. Also included are interest charges.

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

Safety

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

The monthly safety meeting topic was "Safe Rescue and Removal."

General

1. Phase 2 of VCSM reactor training was completed. This training emphasized specific reactor programs. All panel operators were tested and qualified.
2. OASIS started up. Closing was completed with the new system.
3. The shutdown date for New Module VCSM conversion was set for July 5.
4. New reactor rinse nozzles were installed in D745 and D700. These nozzles have hardened gears to improve nozzle life.

	<u>June</u>	<u>YTD</u>
- Production, MM Lbs.	39.4	357.7
- Daily Rate, M Lbs./C.D.	1312.2	1310.2
- Capacity Utilization Factor, %	102.9	102.7
- Total Reactor Charges	922.0	8366.0
- Charges/C.D.	30.7	30.8
- Reactor Stream Factor, %	93.8	88.8
- Rotary Dryer Stream Factor (#4-#8), %	93.3	92.5
- Fluid Bed Dryer Stream Factor, %	99.8	95.5
- Resin Quality, % Prime	98.6	98.2

Reactor Downtime

	<u>Hours</u>
■ Operational downtime (recovery scheduling conflicts, charge/rinse water conflicts, Q.C. data delays, dump conflicts and inventory control).	320.0
■ Maintenance downtime (repair D500 seal oil unit, New Module water meter, D400 jacket, welding, D300 agitator motor, PM D600, D400, D300, and D745 gearboxes, and torque D742 condenser. Repair D745 piping to pressure transmitter. Replace D700 and d745 rinse nozzles, unplugged D700 lip seal, D700 seal, Old Module substation fuse, D745 catalyst valve.)	129.5

VINYL - Continued**Dryer Downtime**

	<u>% of Total Downtime</u>
■ Operational downtime (centrifuge plugs, dryer cleaning, flameouts).	40.7
■ Maintenance downtime (centrifuge maintenance, dryer PM, #5 Trunion bearing).	34.9
■ Reactor limited production.	24.5

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

1. The reactor coupling on D400 was replaced.
2. The #7 dryer feed screw broke on the motor coupling end. The screw was switched out with the spare, repaired and put back into service.
3. Reactor 700 seal failed when the water flush line plugged. The seal has been rebuilt for spare.
4. The motor on reactor 300 was pulled due to excessive vibration. The rotor was found to be out of balance, and the motor has been repaired for spare.
5. One major valve was changed out this month in the Vinyl unit.

COMPOUND - J.E. Nickerson, M. R. Kane

Safety

The Compound Department had no OSHA recordable injuries in June.

General

Control of costs and inventories continued to be a high priority during June. Orders remain tight on all production lines. 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	30	1901	63	14526
Line III	30	3589	120	25163
Line V	12	<u>559</u>	<u>47</u>	<u>2683</u>
Total		6049	202	42372
% Prime		96.8		97.7
Capacity Utilization Factor		76.8		60.6

Downtime

Hours

Line I

- Product Changes	102
- Quality Problems & Control	28
- One Dicer Offline	22
- Miscellaneous Maintenance	20
- Waiting on Raw Materials	12

Line III

- Product Changes	68
- Waiting on Raw Materials	20
- One Dicer Offline	20
- Quality Problems & Control	9
- Miscellaneous Maintenance	7

Line V

- Product Changes	6
- Miscellaneous Maintenance	39

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	29	3939	136	42377
% Prime		97.5		99.3
Capacity Utilization Factor		62.1		77.6

Downtime**Hours**

- Product Changes	130
- Quality Problems & Control	74
- Miscellaneous Maintenance	35

	<u>Operating Days</u>	<u>Production (M Lbs.)</u>		
		<u>Month</u>	<u>Avg./Day</u>	<u>Fiscal Y.T.D.</u>
Plasticizer	30	1474	49	14026
% Prime		82.9		83.9
Capacity Utilization Factor		64.8		79.5

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

- The inert gas heat exchanger was replaced because of recurring leaks in the tubes.
- The Line V Werner-Pfleider barrels were disassembled to check for wear. A Werner-Pfleider representative came, inspected the barrels, and recommended reconditioning the barrels and screws because of severe pitting and wear. The machine was re-assembled to continue production.

ENGINEERING - S. C. Hillman, M. L. Carter

PROJECTS IN DEVELOPMENT - GENERAL

VCSM

Reactor program testing was completed on the simulation panel by the VCSM Team and Operations in late June. Final software verification will be done during the New Module shutdown.

Operator training is complete with the exception of some verification on the panel with a few trainees.

Community Advisory Panel

The first Community Advisory Panel meeting was held on July 18. Ten community members met with plant representatives to discuss the organization and purpose of the panel. The next meeting is scheduled for late August at which time panel members will be given a plant tour.

Vinyl Cooling Tower Performance Evaluation

Performance testing of the vinyl cooling towers will be conducted in late July. This testing will help us determine modifications necessary to address current cooling limitations and provide cooling for debottlenecking purposes.

ABERDEEN CHEMICAL PLANT
APPROVED CAPITAL PROJECTS
=====

ENGINEERING - M.L. CARTER, S.C. HILLMAN

AFE NUMBER	PROJECT DESCRIPTION	STATUS
A519	PLANT ELECTRICAL UPGRADE	PROJECT HAS BEEN REOPENED TO INSTALL A NEW 15 KV 600 AMP SERVICE TO SUB 101.
A649	VINYL CONTROL SYSTEM MODERNIZATION	NEW MODULE CONVERSION PLANNED FOR JULY T/A.
A909	INERTS REMOVAL MODIFICATIONS	PROJECT IS OPERATIONAL, TARGETED FIELD CLOSURE JULY FY 91.
D511	VCM UNLOADING MODIFICATIONS	DESIGN PACKAGE IS IN PROGRESS, MATERIALS HAVE BEEN PLACED ON ORDER.
D550	RAILCAR ACCESS PLATFORMS	WORKING ON PURCHASING ITEMS, TARGETED COMPLETION JULY FY 91.
D570	OLD MODULE RECOVERY SYSTEM ACCESS	DESIGN IS COMPLETE, INSTALLATION PLANNED FOR OLD MODULE OUTAGE,
D580	RECOVERY VACUUM PUMP PRESSURE REL.	WORK IS PLANNED FOR JULY T/A.
D600	PLASTICIZER LOADING. & UNLOADING. MOD.	PUNCH LIST ITEMS REMAINING, TARGETED FIELD CLOSURE 4TH QTR. FY91.
D749	LEAD HANDLING AND EXPOSURE REDUCTION	PROCESS ENGINEERING IS MONITORING MODIFICATIONS.
D849	COMPOUND LINE 3 SEMI-BULK LEAD HANDLING	A TEST RUN WAS CONDUCTED IN JUNE AND IS CURRENTLY BEING MONITORED.
D859	COMPOUND SILO BRIDGE BREAKING	COMPLETED, TARGETED FOR CLOSURE TO FIELD CHARGES IN JULY FY 91.
D899	RAILCAR CLEANING RACK	PUNCH LIST ITEMS REMAIN, TARGETED FOR FIELD CLOSURE 4TH QTR FY 91.
F551	DRY BLEND SCREENER REPLACEMENT	SCREENERS HAVE BEEN PLACED ON ORDER, DESIGN WILL BEGIN IN JULY.
F650	5305 RESIDUAL VCM REDUCTION	PROJECT WILL BE CLOSED TO FIELD CHARGES IN 4TH QTR. FY 91.
F660	DECALCIFIED WATER	NEW FILTERS HAVE BEEN PLACED ON ORDER TARGETED COMPLETION FOR 4TH QTR.
F779	DRYERS NO. 4 & 5 CONTAMINATION REDUCTION	PROJECT WILL BE CLOSED TO FIELD CHARGES IN JULY FY 91.
G560	TC SPILL CONTAINMENT	PROJECT WILL BE CLOSED TO FIELD CHARGES IN 4TH QTR. FY91.
G561	WASTEWATER INFLUENT EQUALIZATION	CONSTRUCTION IS CURRENTLY IN PROGRESS.
G610	TC COMPLIANCE PROJECT	TARGETED TO BE CLOSED TO FIELD CHARGES 4TH QTR. FY91.
G630	REACTOR SLURRY STRIPPING OPTIMIZATION	WORK IS PLANNED DURING RX OUTAGE IN JULY, TARGETED TO CLOSE IN 4TH QTR.
G659	NEW DRYER BAGHOUSES	NEW MODIFIED SCREENS HAVE ARRIVED, PROJECT IS BEING MONITORED.
G839	PLANT WATER RECYCLE	PROJECT WILL BE CLOSED TO FIELD CHARGES 4TH QTR. FY91.
H500	PLANT WATER SYSTEM	ENG. IN PROGRESS, CIVIL AND SITE CONSTRUCTION IN PROGRESS.
H501	MISCELLANEOUS CAPITAL PROJECTS < \$15M	ENGINEERING IS IN PROGRESS ON 29 PROJECTS. 10 PROJECTS COMPLETED.
H510	WEST INCINERATOR REPLACEMENT	INCINERATOR DELIVERED. PROJECT COMPLETION TARGETED FOR 9/91.
H531	BOILER FEEDWATER TANK REPLACEMENT	WORK IS PLANNED FOR JULY STEAM OUTAGE.
H541	PVC GRABBER REPLACEMENT	GRABBER HAS BEEN PLACED ON ORDER.
H571	D-745 RX DRIVE SHAFT REPL	CURRENTLY WORKING WITH VENDORS ON PRICING.
H581	SPARE LARGE RX AGITATOR MOTOR	CURRENTLY WORKING WITH VENDORS ON PRICING.
H620	EAST INCINERATOR REPLACEMENT	INCINERATOR DELIVERED. PROJECT COMPLETION PLANNED FOR 10/91.

ENVIRONMENTAL - K. G. Akins

Water

Bioassay testing began in June using the Ceriodaphnia dubia (water fleas) Survival and Reproduction Test. We did not pass this test. Sampling for confirmatory tests began in late June and was completed in early July. Results from the retest should be available in mid-July.

There was also a pH excursion at the outfall of Pond 6 (NPDES outfall 001) on June 25. The pH fell below 6 for approximately four hours with a minimum reading of 5.8. The MDEQ was notified.

Continued sampling of water discharged to James Creek confirms we are well below Mississippi's Water Quality Criteria limits on lead.

Superfund

Royal Plastics and Conoco wish to have the resin removed from Pond 2 dried on site using our existing Pond Resin recovery system. They indicated a desire to begin reclamation in the near future.

General

Letters were sent the State permitting agencies notifying them of the merger between RWE-DEA and Vista.

A conversation on June 26 with Jay Barkley of the MDEQ provided some information on our pending air permit. Mr. Barkley said the MDEQ has not contacted the EPA regarding the unit risk factor for VCM that was proposed by Vista. Based on our presentation, Mr. Barkley feels comfortable with the proposed number and believes the issuance of an air permit will take place as priorities warrant.

SARA 313 Toxic Chemical Release Inventory for 1990 was completed during June. VCM emissions for 1990 totalled 64,004 pounds. This represented a 16% reduction from 1989 reported releases. Total releases of all listed substances were reduced by 33% as compared to 1989.

An environmental seminar was held in Aberdeen on June 13. The seminar was conducted by Frank Jeanson, Joe Ledvina, and Lynn Zimmerman. Approximately twenty-five people from the plant attended the seminar.

The Aberdeen Plant's Equipment Opening Procedures were revised to incorporate TCLP regulations for use in the upcoming shutdowns.

ENVIRONMENTAL

Waste

Mississippi can now resume shipping hazardous wastes to Alabama based on recent court rulings. However, the relatively high hazardous waste tax may still make it more economical to ship to other locations.

Waste shipments during the month included:

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

ENERGY CONSERVATION - J. R. Ganc

	<u>June. 1991</u>	<u>Fiscal Y.T.D.</u>
I. <u>Energy Conservation Data</u>		
A. Unadjusted EUI	< 4.4%>	< 8.30%>
B. Adjusted EUI	< 3.6%>	< 7.60%>
C. BTU/Lb. Product	2616.8	2729.9
D. Total Energy Consumption MMM BTU	134.6	1239.4

II. Boiler Operation

<u>Boiler</u>	<u>Combustion Efficiency %</u>	
	<u>May. 1991</u>	<u>Fiscal Y.T.D.</u>
No. 1	83.1%	83.1%
No. 2	83.3%	83.4%
No. 3	82.6%	82.8%

All three boilers operated continuously throughout the month.

HUMAN RESOURCE REPORT

JUNE, 1991

Personnel - J. E. Beall

Employment

None

Promotions/Transfers

Michael L. Carter - Lead Mechanical Engineer at OKC,
transferred and promoted to Senior Mechanical
Engineer at Aberdeen.

Mitchell Bishop - Lab Department - Promoted from Lab
Trainee to Lab "A" Technician.

RETIREMENTS

Kenneth Killian - General Helper - Normal Retirement.

TERMINATIONS/RESIGNATIONS

None.

TO/FROM LEAVE OF ABSENCE

None.

ADAMS PLANT**MONTHLY PERSONNEL REPORT****JUNE, 1991**

EMPLOYMENT			NEW HIRES		MO	YTD
Salaried	75		Salaried/Transfer		0	0
Hourly	166		Hourly		0	0
Temporary	3		Temporary		0	3
SUB TOTAL	244		TOTAL		0	3
L.O.A.	0					
TOTAL	244					

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	1	1	18.2%
MAINTENANCE	39	8	0	20.5%	0	0	0	0
LABORATORY	24	5	2	20.8%	8.3%	0	0	0
COMPOUND	39	23	1	59%	2.6%	0	2	1.7%
VINYL	33	10	1	30%	3.0%	0	0	0
PLASTICIZER	5	2	0	40%	0	0	0	0
SUB TOTAL	166	62	4	37.3%	2.4%			
SALARIED	75	7	18	9.3%	24%			

APPLICATIONS	No.	%	PLANT TURNOVER	No	%
Month	0	0	Hourly Month	1	1.2%
YTD	0	0	YTD	3	3.6%
Minority	0	0	Salaried Month	0	0
Female	0	0	YTD	5	1.3%

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

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	7944.25	920.50	13.40	144.00	240.00	27.00	.34	12.00	0.00	0.00	0.00	.49	632
UTILITY	4008.00	365.00	10.60	60.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	312
MAINTENANCE	32114.50	3518.25	11.14	60.00	856.00	189.75	.59	16.00	4.00	48.00	720.00	3.04	3016
QC LAB	17288.75	1284.50	8.98	192.00	484.00	47.75	.28	8.00	84.00	16.00	8.00	.86	960
JANITORS	1871.25	35.25	1.88	0.00	48.00	9.50	.51	0.00	0.00	0.00	0.00	.51	136
WAREHOUSE	6651.00	562.25	8.87	27.50	168.00	31.00	.47	16.00	0.00	48.00	72.00	2.51	320
STORES	1838.75	12.25	.67	0.00	48.00	1.25	.07	8.00	0.00	0.00	0.00	.50	176
DEVELOPMENT LAB	4919.50	174.25	4.53	48.75	128.00	3.25	.07	24.00	0.00	56.00	0.00	1.69	288
DRY BLEND	5263.75	216.50	5.03	48.00	144.00	11.25	.21	0.00	0.00	36.00	168.00	4.10	176
COMPOUND	35048.25	3253.75	10.02	257.75	920.00	245.00	.70	0.00	0.00	96.00	2024.00	6.75	1908
VINYL	36395.75	5133.50	15.77	636.00	1072.00	242.50	.66	0.00	0.00	24.00	840.00	3.02	2892
PLASTICIZER	4769.75	250.50	6.51	60.00	132.00	67.25	1.41	0.00	0.00	0.00	0.00	1.41	472
Total Plant	158215.50	15725.50	10.91	1534.00	4388.00	875.50	.95	76.00	88.00	324.00	3824.00	3.28	10548

Pay Period ending June 30, 1991

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 Death in Family	Long-term Disability	Total Abs % of S/T	Vacation
		Total Hour	% of S/T	Total						National Guard					
YARD	1224.00	118.50	9.68	0.00	0.00	12.00	.98	0.00	0.00	0.00	0.00	0.00	0.00	.98	108
UTILITY	588.00	84.00	14.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84
MAINTENANCE	4715.00	460.25	9.76	0.00	0.00	29.25	.62	0.00	0.00	4.00	0.00	0.00	120.00	3.25	728
QC LAB	2748.00	139.00	4.75	0.00	0.00	17.50	.64	0.00	0.00	84.00	0.00	0.00	0.00	3.73	156
JANITORS	260.00	1.00	.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40
WAREHOUSE	983.50	105.75	10.75	0.00	0.00	14.00	1.42	0.00	0.00	0.00	8.00	0.00	0.00	2.24	120
STORES	272.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00	0.00	2.94	40
DEVELOPMENT LAB	751.50	8.00	1.06	0.00	0.00	.50	.07	0.00	0.00	0.00	0.00	0.00	0.00	.07	48
DRY BLEND	889.00	114.75	12.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	9.45	36
COMPOUND	5433.50	817.25	15.04	0.00	0.00	53.50	.98	0.00	0.00	0.00	24.00	0.00	216.00	5.40	460
VINYL	5285.25	1176.25	22.26	0.00	0.00	78.75	1.49	0.00	0.00	0.00	0.00	0.00	288.00	6.94	484
PLASTICIZER	739.00	16.25	2.20	0.00	0.00	19.00	2.57	0.00	0.00	0.00	0.00	0.00	0.00	2.57	76
Total Plant >>>>>	23879.25	3031.00	12.69	0.00	0.00	224.50	.94	8.00	88.00	32.00	708.00	4.44			2380

Pay Period ending June 30, 1991

June 1991
6/3 - 6/30

ADMINISTRATIVE SERVICES - D. A. Barclay

Safety

There were no reportable safety instances this month.

Quality

All natural teams met in June. To date, Administrative Services Natural Team score is 10.8.

OASIS Progress

June was the first month to use Prism software. Many manhours were used to correct inputted information and to close the system. Aggregate reporting was not used for June closing.

During June there were many treasury holds placed on customers which were not resolved quickly and caused delays in shipments and demurrage charges.

Overall, June's closing of OASIS was not satisfactory. Hopefully, July's closing will be better.

Statistics

<u>Processed</u>	<u>Month</u>	<u>Y.T.D.</u>
Processed Invoices	939	8173
Working Fund Checks Written	12	111
Cost Savings Through Bid Process	\$1668	\$22064
Raw Material Purchase Orders Issued	113	759
MRO/AFE Purchase Orders Issued	190	1628
Spare Parts Purchase Orders Issued	207	1566

Packaged Finished Goods Ending Inventory

	<u>May. 1991</u>	<u>June. 1991</u>	<u>(Decrease) /Increase</u>	<u>% Change</u>
Compound "A" Grade	3,919,042	3,905,357	< 13,685>	< 3%>
PLENEX	97,949	127,883	29,934	31%
Compound Off-Grade (BC)	317,645	317,385	< 260>	0%
Compound Off-Grade (H)	49,787	111,174	61,387	123%
Millscrap(*)	76,730	43,765	< 33,265>	< 43%>
Dry Blend "A" Grade	517,995	587,556	69,561	13%
Dry Blend Offgrade	167,586	254,608	87,022	52%
Resin Type I	636,250	620,950	< 15,300>	< 2%>
Resin Type "BC"	100	100	0	0%
Vacuum Dust	<u>227,095</u>	<u>233,883</u>	<u>6,788</u>	<u>3%</u>
Total Packaged Warehouse	6,010,179	6,202,361	192,182	3%

* Includes PLENEX millscrap and cleanout.

ADMINISTRATIVE SERVICES - Continued

Bulk Finished Goods Ending Inventory

	<u>May. 1991</u>	<u>June. 1991</u>	<u>(Decrease) /Increase</u>	<u>% Change</u>
Compound "A" Grade	752,156	799,263	47,107	6%
Compound Offgrade	177,500	177,500	0	0%
Dry Blend "A" Grade	2,592,530	3,222,540	630,010	24%
Dry Blend Offgrade	816,160	1,157,610	341,450	42%
Resin "A" Grade	8,509,718	13,321,959	4,812,241	57%
Resin Offgrade	<u>1,959,950</u>	<u>1,982,050</u>	<u>22,100</u>	<u>1%</u>
Total	14,808,014	20,660,922	5,852,908	40%

ABERDEEN CHEMICAL PLANT
SHIPPING ANALYSIS
JUNE 1991

-SHIPMENTS BY PRODUCTS-	MONTH			YTD		
	PUBLIC	IPT/ITC	EXCH/TOLL	PUBLIC	IPT/ITC	EXCH/TOLL
RESIN-BULK	14,560,200	12,841,190	0	175,432,494	114,268,690	1,777,400
RESIN-PACKAGED	367,712	222,300	0	2,297,316	1,802,950	0
FLEXIBLE COMPOUND-BULK	435,435	1,969,990	0	6,258,465	10,965,340	0
FLEXIBLE COMPOUND-PACKAGED	3,533,181	80,968	0	27,183,545	832,470	0
NEW BUSINESS	18,788	0	0	112,076	0	0
RIGID COMPOUND-BULK	2,424,190	353,700	0	30,089,240	5,119,800	0
RIGID COMPOUND-PACKAGED	376,841	0	0	3,209,649	699,756	0
TOLLING - BULK	0	0	0	0	0	1,401,960
TOLLING - PACKAGED	0	0	0	0	0	33,600
PLASTICIZER	0	0	185,850	779,150	1,480,530	3,838,010
TOTAL	21,716,347	15,468,148	185,850	245,361,935	135,164,536	7,050,970

-SHIPMENTS BY MODE-				
BULK:				
	RAILCAR	CUSTOMER PICKUP	COMMON CARRIER	TOTAL
JUNE				
RESIN	129	24	53	206
FLEXIBLE COMPOUND	12	0	6	18
RIGID COMPOUND	13	0	13	26
PLASTICIZER	1	0	0	1
TOTAL JUNE	155	24	72	251
YTD				
RESIN	1,434	365	358	2,157
FLEXIBLE COMPOUND	90	0	38	128
RIGID COMPOUND	197	26	99	322
PLASTICIZER	21	29	27	77
TOTAL YTD	1,742	420	522	2,684

PACKAGED:						
	CUSTOMER PICKUP	COMMON CARRIER	TOFC	AIR/UPS	AIR/UPS	TOTAL
JUNE						
RESIN	4	15	0	0	1	20
FLEXIBLE COMPOUND	29	72	0	0	5	106
RIGID COMPOUND	1	14	0	0	0	15
PLASTICIZER	0	0	0	0	0	0
TOTAL JUNE	34	101	0	0	6	141
YTD						
RESIN	29	113	0	0	50	192
FLEXIBLE COMPOUND	222	665	0	0	76	963
RIGID COMPOUND	8	126	0	0	4	138
PLASTICIZER	0	3	0	0	0	3
TOTAL YTD	259	907	0	0	130	1,296

CC: DAB,TLC,AEV,JRF

01/91

ABERDEEN CHEMICAL PLANT

PRODUCT RETURNS

JUNE 1991

CUSTOMER

CAPCO PIPE

LOCATION

AR, VAN BUREN

PRODUCT

RESIN

CODE

1830-00

DESCRIPTION

5365-3 PIPE

BLIND

PLW44686 BULK

LBS

170,250

SHIPPED

05/30/91

ORDER

891374-048

INVOICE

2240920

DISPOSITION/REMARKS

PRODUCT QUALITY

Sub

170,250

CERRO MAC

AL, HARTSELLE

RESIN

17097

5415

1-722

BULK

45,880

06/04/91

000053-001

CUSTOMER'S PLANT ON STRIKE

Sub

45,880

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11F12

BOXES

1,033

02002

04/15/91

902544-007

2234918

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11F27

BOXES

4,222

02002

05/14/91

902544-011

2238740

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11F27

BOXES

650

02002

05/21/91

902544-012

2239892

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11G20

BOXES

6,112

02002

05/21/91

902544-012

2239892

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11F12

BOXES

1,400

02002

04/25/91

906222-001

2236130

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1399-01

46801 BLK

30820

BOXES

1,125

02003

01/31/91

901322-001

2224312

PROCESSING PROBLEM

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11G20

BOXES

9,000

02005

05/29/91

902544-010

2238320

MOISTURE

FLEXIBLE TECH

SC, ABBEVILLE

CMPD

1026-58

57121 WTRCLR

11G20

BOXES

1,300

02005

05/24/91

907733-001

2240328

MOISTURE

Sub

24,842

PRESTOLITE

ME, SIDNEY

DB

9038-00

416-74-1 MAT

11C09

BOXES

3,266

02004

05/15/91

889238-007

2239678

PROCESSING PROBLEM-EXPTL

PRESTOLITE

ME, SIDNEY

DB

9038-00

416-74-1 MAT

B-10482

BOXES

10,912

02004

?

?

?

SHIPPED FROM BLANK-PROCESSING PROB-EXPTL

Sub

14,178

Sub

255,150

VAB.0001189662

LABORATORY - J. M. Edwards

A. Safety

There were no safety incidents in the Laboratory during June. The monthly safety meeting was "Emergency Rescue Training" taught by Ginny Belk.

B. Customer Contacts

A group from Southwire visited the Plant on 6/7/91 to discuss our next Quality Agreement. Vista was also evaluated against last year's Quality Agreement by the Southwire Team.

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

6/04 Klockner-Pentaplast, Gordonsville, VA

The customer complained that 5305 railcar 46456 was too yellow. Stripping conditions in the Old Module reactor were modified to get the "b" value back in line with historical shipment values. Klockner would like 5035 with a 2.0 maximum "b" value.

6/06 Donnelly Corporation, Holland, MI

Customer complained that a lot number on a shipment did not match the lot number on the COA. A corrected COA was faxed before the complaint was heard.

Also, the customer needs fifteen-second aged hardness reading for each lot of material shipped. There is a logistics problem with this request. The Aberdeen lab will provide test data correlating instantaneous unaged durometer readings to aged fifteen-second delay readings for products shipped to Donnelly.

6/07 Formtech Enterprises, Stow OH

Customer complained that lot 41H09 of RP-91 WHT 110 was high in "L" value. The Aberdeen lab confirmed Formtech's results. With only seventeen individual points plotted, this lot could be an out-of-control point.

LABORATORY - Continued

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

6/08 Donnelly Corporation, Holland, MI

The customer complained that illegible stenciling of bagged 46234A caused two lots to be confused which comprised their lot integrity.

6/10 Dayton Extruded Plastics, Miamisburg, OH

The customer complained of "very large" particles and 0.16% on the 40 mesh in one compartment of the RP-151 shipment in PLCX 43123. New procedures are in place and new screeners are on order to help correct the problem.

6/12 Donnelly Corporation, Holland, MI

Lots 31F13 and 31F18 of 46234A Black exhibited poor thermal stability in Honda Accord rear windshield encapsulation. Chemical analysis of the two lots showed 31F13 to be low in E50 and 31F18 to be low in DIDP.

6/14 Style Crest, Fremont, OH

The customer complained that a shipment of RP-27 was delayed because of CPE shortage. They have asked R&D to suggest alternative modifiers.

06/14 IUSA, Mexico City

The customer complained of black specs on wire insulation made with 34643 Natural compound. The specs appear to be undispersed color concentrate.

6/17 PVC Container, Eatontown, NJ

Customer complained of "streamers" from 5265 clogging unloading equipment screens.

LABORATORY - Continued

D. Product Waivers

<u>Customer</u>	<u>Product</u>	<u>Reason</u>	<u>No.</u>
Available Plastics	80273G WHT 110	Oversize Material	1 H/T
Dayton Extruded Plastics	RP-151 WHT 145	40 Mesh	1 R/C
Dayton Extruded Plastics	RP-151 WHT 145	Color	1 R/C
Dayton Extruded	RP-151 WHT 145	Color	1 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 June, 1991.

	<u>Reactor Slurries</u>	<u>Drier</u>	
		<u>5265</u>	<u>5305</u>
Number of Samples	921	18	83
Average RVCM, ppm	41	0.538	0.279

RVCM of Shipment Samples

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

<u>Product</u>	<u>Number of Samples</u>	<u>Average RVCM. ppm</u>
5265	39	0.102
5305	128	0.077
5325	0	
5385	38	0.155
5395	6	0.087
5415	65	0.033
Debox	12	0.203
Pond	0	
Dry Blend	3	0.017

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

	<u>5265</u>	<u>5305</u>	<u>5415</u>	<u>5395</u>	<u>5415</u>
Bulk Density	1.28	0.53	1.45	1.16	1.27
Inherent Viscosity	1.44	0.81	0.62	0.57	0.41
(vs. 0.64 - 0.67)	0.22	-----	-----	-----	-----
(vs. 0.715 - 0.744)	-----	0.63	-----	-----	-----
"L" Color	5.33	2.07	2.50	6.00	4.00
"a" Color	3.83	4.50	-----	-----	-----
"b" Color	1.78	2.22	2.17	2.00	2.83
% on Pan	15.67	3.58	4.33	5.11	7.83
(vs. 2% max.)	-----	-----	-----	-----	2.83
% thru 140	5.05	1.60	3.42	2.58	8.05
Mets I.R.	-----	-----	-----	3.11	2.62
(vs. 95% of Control)	-----	-----	-----	-----	1.30
Hard Particles, (% > 10)	-----	-----	0.9	0	0
Average Particle Size, Microns	171	152	174	160	184

G. Flexible Compound Quality Summary

	<u>Adjustments</u>		<u>Rejections</u>	
	<u>M Lbs.</u>	<u>%</u>	<u>M Lbs. (%)</u>	
Hardness	31.0	<0.50>	8.0	<0.13>
Color	20.0	<0.33>	39.2	<0.64>
Hard Particles			3.5	<0.06>
Heat Stability			11.2	<0.18>
Dicing			26.0	<0.42>
Cross Contamination			15.0	<0.24>
Streamers			1.6	<0.03>
Mischarge			27.0	<0.44>
Moisture			17.6	<0.29>
Totals	51.0	<0.83>	149.1	<2.43>

H. Rigid Compound Quality Summary

	<u>Rejections</u>	
	<u>M Lbs.</u>	<u>(%)</u>
Torque Rheometry and Color	9.1	<0.24>
40 Mesh	16.7	<0.44>
Moisture	24.0	<0.63>
Total	49.8	<1.30>

LABORATORY - Continued

I. Miscellaneous

1. All natural teams met once during the month.
2. The new brittleness tester low temperature bath arrived. Startup was not completed.
3. Assistance was given to Administrative Services to develop the plant budget shell software.

SAMPLE SHIPMENTS**JUNE 1991****RESIN**

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
6/07/91	5395	5 lbs.	Gary Chemical
6/12/91	5305	100 lbs.	AMERICAN CONTAINER
6/12/91	5305	50 lbs.	U-FREIGHT LTD. (Hong Kong)
6/13/91	5385	2 X 5 lbs.	Armor Bond Building Products Inc.
6/14/91	5415	150 lbs.	CONDUCTORES LATINCASA
6/14/91	5385	50 lbs.	ABERDARE CABLES
	5415	200 lbs.	(South Africa)
6/14/91	5416	50 lbs.	RJF International
6/19/91	5415	50 lbs.	PDMTR
6/21/91	5385	5 lbs.	Achilles
6/28/91	5395	50 lbs.	Dayton Extruded Plastics

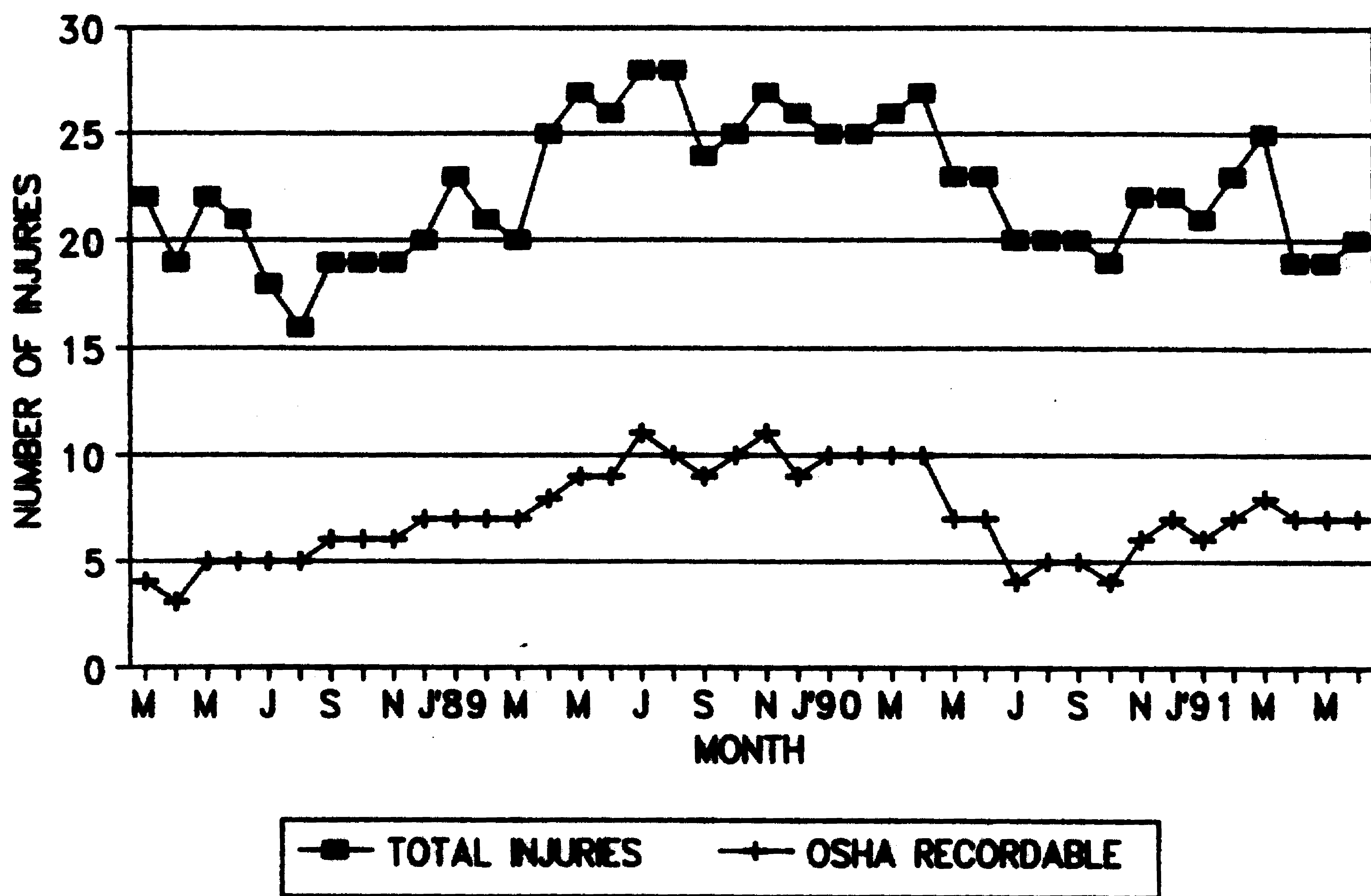
COMPOUND

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
6/10/91	46234A BLK	2 Plaques	LOF Technical Center
6/12/91	46234A BLK	50 lbs.	Lord Chemical
	48562 BLK	50 lbs.	
6/24/91	419-50-A NAT 02	200 lbs.	Alcatel NA Inc.
6/24/91	419-50-A NAT 02	100 lbs.	Belden Corporation
6/26/91	38931 NAT	200 lbs.	Tandy Wire & Cable Co.

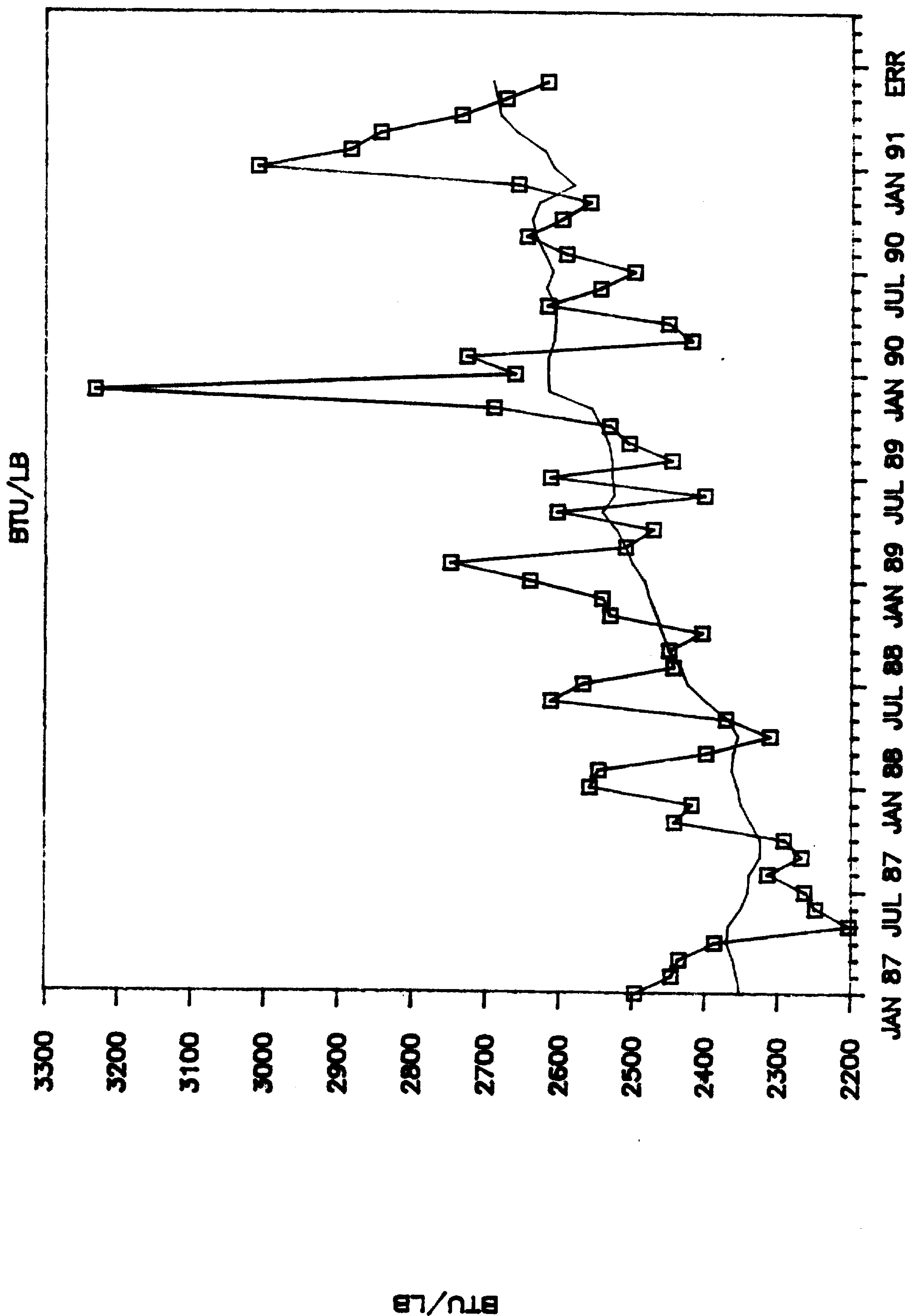
MISC.

<u>Ship Date</u>	<u>Product</u>	<u>Amount</u>	<u>Customer</u>
6/07/91	Vent Dust	1 gal.	RFC Plastics

ABERDEEN CHEMICAL PLANT INJURIES (Twelve Month Running Totals)

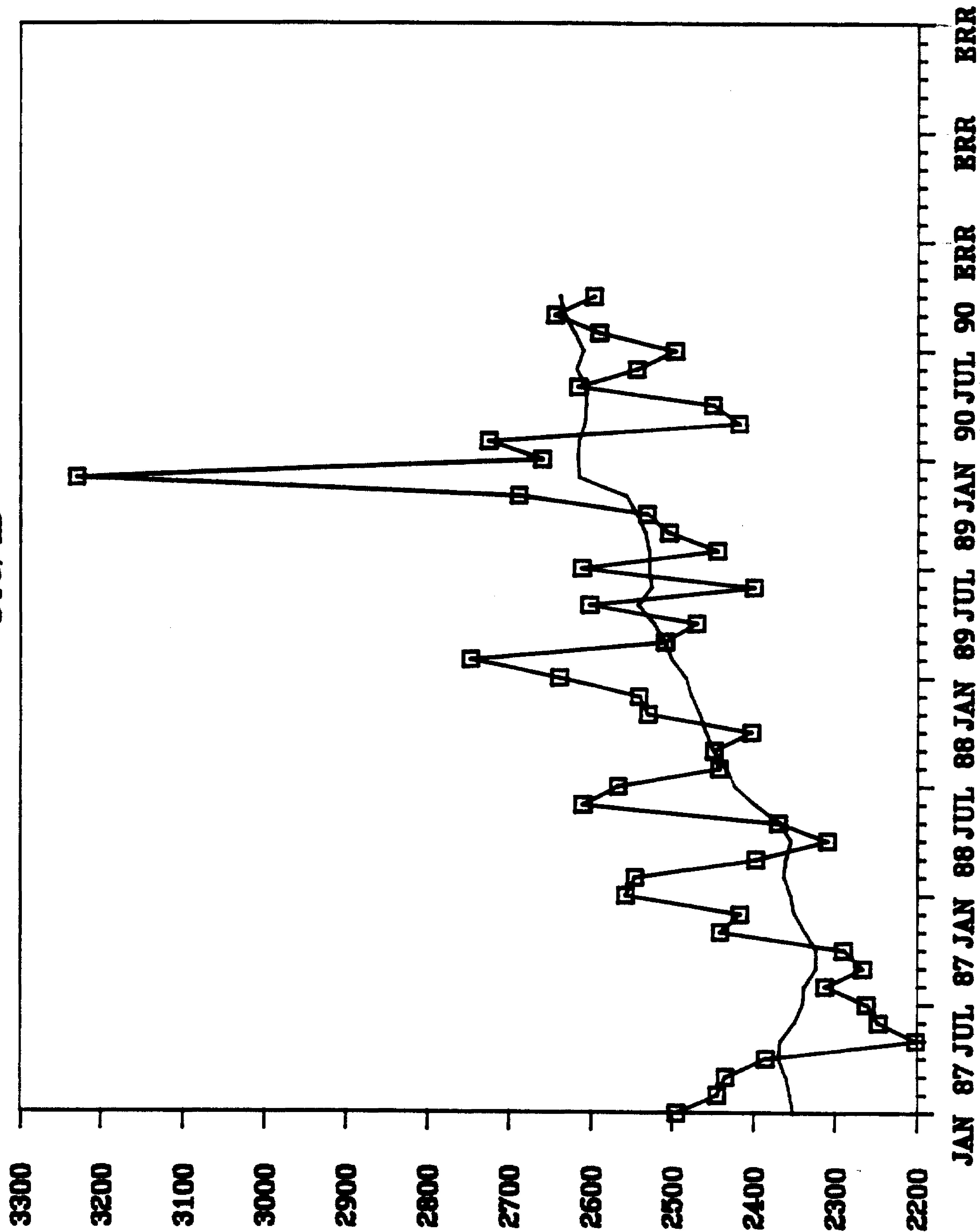


ABERDEEN ENERGY CONSUMPTION



ABERDEEN ENERGY CONSUMPTION

BTU/LB



□ MONTHLY

MONTH

— 12 MONTH AVERAGE