

SAFETY - A. H. Sather

OCCUPATIONAL INJURIES

<u>Injuries Treated</u>	<u>October</u>	<u>1979 Year-to-Date</u>	<u>1978 Year-to-Date</u>
First Aid	4	32	42
Medical Cases	1	8	8
Restricted Workday Cases	0	2	1
Restricted Workdays	0	29	10
Lost Time	0	1	1

Injuries by Department

Vinyl Operations	0	13	16
Compound Operations	0	3	13
Maintenance	4	22	18
Laboratory	1	1	5
Receiving and Warehouse	0	0	0
Office	0	2	1

Injuries by Type

Cuts and Abrasions	1	12	21
Eye Injuries	0	5	9
Burns	0	12	9
Bruises	3	10	9
Strains and Sprains	0	5	5
Other	1	2	3

As of October 31, 1979, the plant operated 149,288 manhours or 118 days without a disabling injury.

SUPERVISOR'S WORKSHOP

Final preparations were completed for the Supervisor's Workshop on Safety Awareness to be conducted during November. A number of films were reviewed with eight (8) being selected for use. A new procedure was also prepared which stated the plant's position on accident and injury control with emphasis on methods of control.

NEW COMPOUND LINE

On October 8, 1979, a team of plant personnel conducted an 80 percent complete safety audit to identify safety and functionality items which should be corrected prior to startup.

FIRE PROTECTION IMPROVEMENTS - PHASE I

The basis of bids piping package was received from CED. Several changes were noted for revision prior to issue. The changes are targeted to be complete during November with bid package issue shortly thereafter.

EMPLOYEE SAFETY RESPONSIBILITIES PROGRAM

Work on the new multi-part Employee Safety Responsibilities slide and tape presentation was initiated during the reporting period. The program is being designed such that it will fill a number of needs specifically including new employee safety orientation and safety meeting emphasis.

RIGGING TRAINING

Final preparations were made to utilize the services of Crane Inspection and Certification Bureau (CICB) to conduct the rigging training program. The program is scheduled for December 10-17, 1979. Currently, the intent is to schedule all Mechanical Department personnel into the two (2), three (3)-day sessions.

OSHA COMPLIANCE

Activity in the area of OSHA compliance for the reporting period included:

1. "Hands-on" physicals for compound and lab personnel handling lead containing compounds and for plant personnel having worked with VCM for ten (10) years or longer.
2. Revisions to the annual Respiratory Protection Training program and conduct of several training classes.
3. Final layout review of the new air supply header to the building ventilation system dust collector.
4. Routine personnel monitoring for VCM and lead. The results of monitoring are shown below along with a brief explanation of overexposures.

VCM Dosimetry

<u>Range, PPM</u>	<u>Number</u>	<u>Percent</u>
0.0 - 0.5	49	71.01
0.5 - 1.0	8	11.60
1.0 - 5.0	10	14.49
5.0+	2	2.90
	<u>69</u>	<u>100.00</u>

OSHA COMPLIANCE (Cont.)

VCM Overexposures

Twelve (12) VCM overexposures occurred. Six (6) occurred to Vinyl Operations personnel, five (5) of which could not identify a source while one (1) indicated the source to be dispersing agent (PVA) makeup. Five (5) of the Mechanical Department personnel were overexposed. One (1) of them occurred to a mechanic entering D-600 and was wearing a respirator. The remaining Mechanical Department overexposures involved work on the valve actuator lubricators in the new unit recovery area (one), piping revision on 742 reactor N.O. kill piping (one), and two (2) mechanics performing work on the old module reactor gearboxes. The remaining overexposure occurred to a yard operator unloading VCM who was wearing a respirator.

Lead

	<u>Number</u>	<u>Percent</u>
Less than PEL	5	100.0
Greater than PEL	<u>0</u>	<u>0.0</u>
	5	100.0

VINYL - C. R. Miller

<u>Production</u>	<u>Month</u>	<u>Y.T.D.</u>	<u>Standard</u>
1. Total Production, MM #'s	28.8	264.9	
2. Production Rate, M #'s/C.D.	930	871	904
3. Charging, Reactor Batches/C.D.	22.1	21.3	
4. Total Charges	685	6464	
5. Reactor Stream Factor, %	85.7	88.5	
6. Drying Rates, Average #'s/hr.	5984	5751	
7. Dryers, Stream Factor, %	92.3	90.2	
8. Accounting Days	31	304	

Vinyl department production for the month was 103% of budget at 28.8 MM pounds. This monthly total represents a new monthly production record which surpasses the previous record of 28.7 MM pounds set last May.

The reactor performance was down from September with a 85.7% stream factor. The major items which adversely affected reactor performance were as follows:

1. All four reactors in the old module required gearbox repairs during the month. (6% stream factor penalty)
2. Blade changes required for the agitation test run.

An agitator test run was held during October in the new reactor module with R&D and plant personnel. The results will be utilized to optimize agitation affects on resin properties and to provide scale-up information for future design work.

Resin Quality Summary

<u>Resin Type</u>	<u>Prime Pounds</u>	<u>"BC" Grade</u>	<u>"H" Grade</u>	<u>% of Total Production</u>
5305	2,271,831	125,500	-	8.3
5385	22,769,134	148,500	43,000	79.6
5425	2,800,954	115,050	20,250	10.2
5465	340,450	-	-	1.2
Sifter Overflow	-	-	206,365	0.7
TOTAL	28,182,369	389,050	271,615	100.0

Quality performance for the month of October was 97.7% customer grade with 1.35% "BC" and 0.95% "H" grade reported, 76% was due to sifter overflow.

The variable cost variance for the vinyl department was (\$1,408.1 M) with (\$1,507.3 M) due to price and \$99.2 M due to efficiency. The major price variance was (\$1,443.3 M) for VCM. The only major efficiency variance was \$28.4 M for VCM.

The raw material requirement for the month was 1.01298 pounds VCM/pound of PVC versus a 1.01960 standard. (Y.T.D. is 1.02514).

General

Approximately 6.1 million pounds of resin was bagged during the month to meet export requirements.

COMPOUND - J. R. McCrimon

<u>Compound Production</u>	<u>Month</u>	<u>#'s/Day</u>	<u>Y.T.D.</u>
Line I, M Pounds	1,369	44	14,244
Line III, M Pounds	2,149	69	24,538
Total, M Pounds	3,518	113	38,782
Accounting Days	31		304

Line I operated 23 days during October at an average rate of 44 M pounds per day. Major items impeding productivity were the number of product changes (17 changes, 45.2 hours), five (5) day operation, dicer problems (43.3 hours), pellet blower maintenance (5.4 hours), blender bucket drive clutch maintenance (4.2 hours) and skip hoist maintenance (2.7 hours).

Line III operated 23 days averaging 69 M pounds per day. Production on Line III was hindered by five (5) day operation, product changes (12 changes, 33.2 hours), plugged FCM (12.5 hours), mill motor repair (25.8 hours), running only one dicer for quality control (80 hours), oil change on mill (4.0 hours), dicer problems (2.7 hours), star valve maintenance (2.5 hours), and blender ribbon repairs (2.2 hours).

Quality performance for flexible compounds was 1.1% off-grade of which 65.3% was due to millscrap. "BC" production was 1.6%.

The raw material requirement for flexible compounds was 1.00218 pounds raw material per pound of compound versus a 1.01297. (Y.T.D. is 1.00880)

The variable cost variance for compound was \$20.3M with (\$11.2 M) due to price and \$31.5 M due to efficiency. The variance due to product mix was \$19.1 M. The major price variance was (\$19.2 M) for TOTM.

<u>Dry Blend</u>	<u>Month</u>	<u>#'s/Day</u>	<u>Y.T.D.</u>
Production, M Pounds	5,424	175	39,765
Accounting Days	31		304

Dry Blend operated 25 days during October at an average rate of 175 M pounds per day. Production included 80172B, 80273G, and 90171. Dry Blend production was encumbered by Orbitran repairs (36.2 hours), running on one Welex (44 hours), stabilizer pump repairs (4.5 hours), and load cell calibration (1.8 hours).

Quality performance for October was 99.99% customer grade.

The raw material requirement for Dry Blend was 1.01280 pounds raw materials per pound of dry blend versus a 1.00321 standard. (Y.T.D. is 1.00302)

The variable cost variance for Dry Blend was (\$86.8 M) with (\$10.6 M) due to price and (\$76.2 M) due to efficiency. The variance due to product mix was (\$67.3 M).

<u>Plasticizer</u>	<u>Month</u>	<u>#'s/Day</u>	<u>Y.T.D.</u>
Production, M Pounds	864	28	9,992
Accounting Days	31		304

Plasticizer operated 13 days during October averaging 66 M pounds per operating day. Production included 610P, DOP, and DIDP. VRP production totaled 101 M pounds (13.2%).

The raw material requirement for plasticizer was 1.06831 versus a 1.10872 standard. (Y.T.D. is 1.14099)

The variable cost for plasticizer was (\$18.7 M) with (\$23.1) due to price and \$4.41 M due to efficiency. Major price variances were (\$22.2) for Alfol 610, \$16.0 for 2-Ethyl hexanol, and (\$11.1) for Isodecyl.

General

Total customer grade compound inventory held steady at 6.9 MM pounds during October.

MECHANICAL - S. J. Vincent

There were three large reactor condensers cleaned during this period. The condensers cleaned were on D-400 and D-500 in the old module and 744 condenser in the new module. Two large reactor mechanical seals were also replaced. Both of the seals were replaced in the old module on D-300 and D-400 reactors. There were three major reactor gear boxes overhauled this period. The D-600 gear box was rebuilt in the Prager Machine Shop and the lower bearing housing replaced along with extensive machine work. The D-400 and D-300 gear boxes were overhauled in our shop after both gear boxes experience top bearing failures. D-600 and D-400 gear boxes experienced high speed pinion gear failures after two weeks operation. The main drive motor on the D-500 reactor gear box was replaced.

Reactor valves repaired or replaced were the D-400 main dump, steam stripping and water charge valve, the D-500 sewer drain and VC charge valve and the VC charge valve on the D-600 reactor.

The safety valves were tested on D-400 reactor and condenser, the south recovered receiver in the old module and the safety valve was replaced on the pull receiver in the new module.

The only major mechanical problem in the vinyl dryer area was the shaft and bearing failure on the number seven exhaustor. The exhaustor was removed to the shop to repair the fan and to install a new shaft, bearings and drive shaft. Other dryer repairs included the replacement of the number two screener motor and minor repairs to sifter clamps and vibrators.

There were nine mechanical seal repairs this month on small pumps and compressors. Six seal failures were in the old module and three in the new module. The south Corkin compressor was changed out and the old unit rebuilt.

A new safety valve and stack was installed on the old module blowdown drum.

The reactor agitator test run was completed using 744 reactor for the test. Mechanical manpower was scheduled for seven day twenty four hour coverage of the test run. A new fuel gas pressure readout was installed in the reactor control room.

Compound, Dry Blend, Plasticizer, and Storage Silos

Both the north and south blowers in the plasticizer unit were overhauled and case leaks repaired.

The fan hub and blowers were replaced on the south compound cooling tower.

The number one Welx main drive bearing failed. Repairs were made by installing the spare drive shaft and bearing.

Utilities and Service

Three air compressors were repaired this month. Valves and packing in number six and two and the crank bearings were replaced in number one air compressor. The outlet cooling water lines were revised to increase cooling on the three V-10 air compressor aftercoolers. Heater elements were replaced in number one and number three air dryers.

Planning

The planner is still out due to illness and individual area supervisors are performing some of the planners duties along with the maintenance clerk.

Miscellaneous

The "B" mechanics completed four days of basis welding training. Twelve mechanics and one supervisor completed a two and one half day pump and seal seminar by Dupont Co.

PERSONNEL - J. L. Carter

EMPLOYMENT

Randy Harned, Electrical Engineer
Steve Dobbs, Casual Labor

TO/FROM LEAVE OF ABSENCE

None

TRANSFER/PROMOTION

None

RETIREMENT

None

TERMINATION

James Sykes, Compound Utility
Q. C. Townes, Compound Utility

DEATH/DISABILITY

None

OTHER

During the month of October there were four casual labor employee on payroll. Total hours worked were 704.75. The bulk of these employees were utilized for bagging resin.

October 1979
MONTHLY PERSONNEL REPORT

Salaried Employees 78 *

Hourly Employees 158

Total Employees 236 *

Employees (Hourly)

New Employees 0

Terminations 2

Minority Employees # %

Salaried 5 6.4%

Hourly 61 39%

Total 66 28%

Hourly Min. Hired 0

% Min. Hired 0

Hourly Min. Term. 1

% Min. Term. 50%

DEPARTMENTS	PAR	# EMPLOYEES	MIN. EMP.	% MIN.	NEW HIRES	YTD	TERM.	YTD	TURNOVER	YTD
Warehouse	<u>9</u>	<u>9</u>	<u>2</u>	<u>22%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Gen. Plant	<u>10</u>	<u>11</u>	<u>4</u>	<u>36%</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>36%</u>
Maintenance	<u>46</u>	<u>45</u>	<u>7</u>	<u>15%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>2%</u>
Laboratory	<u>22</u>	<u>21</u>	<u>3</u>	<u>14%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>4.7%</u>
Compound	<u>41</u>	<u>36</u>	<u>29</u>	<u>80%</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>2</u>	<u>5%</u>	<u>5%</u>
Vinyl	<u>32</u>	<u>32</u>	<u>13</u>	<u>41%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Plasticizer	<u>5</u>	<u>4</u>	<u>3</u>	<u>75%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Number of Applicants:

Month 1 Year to Date 77

Hires (Hourly) :

Month 0 Year to Date 1

APPLICANT BREAKDOWN:

Terminations (Hourly) :

Minority 0 % Minority 0Month 2 Year to Date 8Female 1 % Female 100%Overall Turnover 1.3%Projected Annual Turnover 5%

*Includes two (2) temporary employees.

OVERTIME AND ABSENTEEISM

October 1979

Department	Straight Time Hours Worked	Overtime Hours Worked		Overtime as % of Straight Time	Absence Hours Lost	Sickness	Absence as a % of Straight Time	
		Controllable (1)	Non-Controllable (2)				Other	Total
Warehouse	1415.75	71.25	0	5%	24	100%	0	2%
Maintenance	5733.50	1068.50	0	19%	216	100%	0	4%
Laboratory	3199.00	178.25	0	5%	184	100%	0	6%
Compound	5324.00	89.50	0	2%	768	100%	0	14%
Vinyl	5605.75	273.25	0	5%	80	100%	0	1%
Plasticizer	585.00	19.25	0	3%	8	0	100%	1%
Utility Boiler House	560.00	100.25	16.00	21%	0	0	0	0
General Plant	951.00	68.25	0	7%	8	100%	0	.8%
Total	23374.00	1868.50	16.00	8%	1288	99.4%	.6%	5%

NOTE:

- (1) Controllable Overtime - all overtime excluding overtime due to working regular hours on a holiday and working the sixth day in operations.
 (2) Non-Controllable Overtime - that overtime due to working regular hours on a holiday and working regular hours on the sixth day in operations.

DTH 000021681

PROCESS ENGINEERING - R. A. Frohreich

A. Specialty Compound Line

Mechanical construction of the project is proceeding. The operating manual for the line was prepared. The Orbitran control panel is scheduled for shipment in the first week of November. Completion of the project is now scheduled for November 23, 1979.

B. Fire Water Revisions

The AFE request for Phase II of the project was approved.

C. Automatic Plasticizer Weigh-Up System

Installation of this project has been postponed until after startup of the new compound line.

D. New Slurry Blend Tank and PVC Railcar Silo

The Class "A" process design for this project is being revised to be consistent with the Expansion Project.

E. Resin Expansion Project

A review meeting covering the status of the project was held at the plant on 10/24/79. A partial AFE to cover engineering and equipment charges was submitted and approved.

F. Spare Incinerator

An AFE request was submitted in late September for this project.

G. Plant Dryer Debottlenecking

The process design for this project is being revised to be consistent with the Expansion Project and the New Slurry Blend Tank and PVC Railcar Silo Project.

H. Methocel Charge Revisions

The AFE request for this project was approved.

I. In-Process Waste Water Stripping System

An AFE request for this project was submitted in late September.

J. Plasticizer Exposure Abatement

The plant engineering staff assisted PED in operator training and startup of plasticizer filter.

K. Phthalic Anhydride Tank Replacement

A process design to replace the phthalic anhydride tank was issued.

L. Propane Operating Manual

The propane operating manual was issued for internal review.

M. Recovery System Modifications

The Recovery System Modifications process design was issued for internal review. This design regulates the seal water flow to the vacuum pumps and compressors.

N. Plant Air Dryers

Non lubricated switching valves for dryers #2 and #3 (V-10) are due to be shipped November 14. Kemp sales representative recommended increasing plant pressure to achieve dryer air. Monitoring of dryer performance continues.

O. Oxygen Analysis of Vapor Space in Emission Recovery System

A report on the Emission Recovery System oxygen analysis test was issued in October.

P. Operating Procedures for Emergency Power System

Operating procedures for the emergency power system are being prepared.

Q. Plasticizer Waste Water

Several plasticizer waste water streams were analyzed for BOD to see if these streams can bypass the API. Air floatation tests will be conducted beginning in December.

ENVIRONMENTAL - V. E. Messick

I. Particulates

The exhaust from one of the resin dryers was sampled for particulates and was within allowable limits. Mechanical problems with the stack sampler prevented more samples from being taken.

II. Water

BOD and COD levels were within the NPDES limitations during all of October.

Arrangements have been made to clean the API separator. The solids in the separator will be trucked to Rollins Environmental Service and be disposed of by them.

III. Vinyl Chloride

The Honeywell continuous monitoring systems received preventative maintenance service by the vendor during October.

TABLE I
WATER COMPLIANCE WITH
NPDES PERMIT PARAMETERS

		Flow	BOD		COD		Sus. Solids		Diss.	
		GPM	PPM	LB./DY.	PPM	LB./DY.	PPM	LB./DY.	O ²	ph
Jan. -	Ave.	788	26	246	63	589	19	170	6.9-7.3	7.5-8.2
	Max.	948	37	307	94	781	31	279		
Feb. -	Ave.	756	30	272	73	656	27	241	6.9-7.9	7.7-8.0
	Max.	773	43	380	95	840	34	315		
Mar. -	Ave.	669	17	134	61	490	26	214	6.9-7.6	7.3-7.9
	Max.	760	24	184	81	621	45	367		
Apr. -	Ave.	743	6	55	33	295	10	85	6.9-7.3	7.3
	Max.	930	9	73	42	446	16	130		
May -	Ave.	730	12	101	44	374	11	95	6.6-7.4	7.3-7.9
	Max.	881	18	149	61	504	14	129		
June -	Ave.	670	10	75	25	196	20	154	6.9-7.9	7.6-8.0
	Max.	722	19	143	44	332	28	234		
July -	Ave.	780	11	98	41	387	14	128	6.6-7.2	7.8-8.5
	Max.	840	14	126	60	590	30	295		
Aug. -	Ave.	972	31	347	63	707	8	89	6.2-7.5	6.6-8.0
	Max.	1123	75	788	143	1502	11	116		
Sept. -	Ave.	711	15	128	48	410	14	122	6.3-8.0	7.5-7.7
	Max.	867	24	192	65	519	22	229		
Oct. -	Ave.	671	6	50	25	203	9	75	6.8-7.4	7.7-8.0
	Max.	823	11	80	37	286	15	148		
Nov. -	Ave.									
	Max.									
Dec. -	Ave.									
	Max.									
NPDES -	Ave.	-	32	387	-	1390	-	605	> 6.0	6.0-8.5
	Max.	-	43	520	-	1940	-	909		

ENERGY CONSERVATION - V. L. Thornhill

I. Plant Operations

Total energy consumption for October was 108.3 MM BTU's. The energy consumption per pound of product decreased from 2896 BTU/lb. to 2812 BTU/lb.

II. Plant Energy Conservation Program

A. Steam Leaks

Twenty-three steam leaks were repaired in October.

B. Energy Reporting

The Third Quarter Energy Report was issued in October. The plant had a 30.7% energy reduction compared to the 1972 Base Year. With adjustments for OSHA and EPA energy usage the energy reduction was 44.8%.

ENERGY CONSERVATION DATA

<u>ITEM</u>	<u>1978</u>	<u>1979</u>
<u>Control Period</u>	October	October
<u>Production, MM Lbs.</u>		
Resin	24.1	28.8
Dry Blend	6.7	5.4
Compound	3.2	3.4
Plasticizer	0.9	0.9
TOTAL	34.9	38.5

Natural Gas

Consumption, MSCF	54816	56582
Conversion, BTU/SCF	1020	1020
Energy Consumption, MMM BTU	55.912	57.714

Electricity

Consumption, MM KWH	4.646	5.0496
Conversion, BTU/KWH	10000	10000
Energy Consumption, MMM BTU	46.460	50.496

Propane

Consumption, M Gal.	None	0.60
Conversion, BTU/Gal.		92000
Energy Consumption, MMM BTU		0.055

Total

Energy Consumption, MMM BTU	102.372	108.265
Energy Consumption , BTU/Lb.	2933	2812

Boiler Operating Data

	<u>Avg. Stack Temp.</u>		<u>Avg. % Excess Air</u>	
	<u>1978</u>	<u>1979</u>	<u>1978</u>	<u>1979</u>
No. 1	421	365	102	27
No. 2	415	404	98	26
No. 3	427	407	125	27

MECHANICAL ENGINEERING - J. A. Dixon

AFE's Submitted, Approved, and Closed

The following AFE's were submitted and approved during October:

<u>AFE No.</u>	<u>Title</u>	<u>Authorized</u>
9729	Fire Protection Improvements Phase II	\$490,000
9739	Methocel Charge Revision	66,000
9749	Improved Rupture Disc Holders	27,000
9079	Cooling Tower Motor Repair	17,800
9089	Vibration Study - Capacity Replacement Reactors	50,000

The following completion reports were issued during October:

<u>AFE No.</u>	<u>Title</u>	<u>Authorized</u>
9286	Additional Slurry Blend Tank	\$290,000
9187	Emergency Reactor Vent Control	33,000
9287	Plasticizer Yield Improvement Test	6,000
9048	Resin Moisture Analyzers	17,000
9108	Boiler Burner Replacement	170,000

The following AFE's were closed to field charges during October:

<u>AFE No.</u>	<u>Title</u>	<u>Authorized</u>
9197	Dryer Area Noise Abatement	\$ 45,000
9257	Resin Transfer Debottlenecking	56,000
9277	Truck Loading Safety Revisions	16,000
9178	Propane Vaporizer Replacement	175,000
9218	Charge Water Heating Improvement	32,000
9549	Safety Equipment	15,000
9039	Repair of Storm Drains	25,000

Design

Design work is complete for the New Air Header and piping for Emission Recovery Revisions.

Design work is in progress on the following projects: New Air Compressor, Double Block Valves for VCM Charge, Improved Rupture Disc Holders, Dryer Operation Improvements, Emission Recovery Revisions, Reactor Inert Vent System, Phthalic Anhydride System, Automatic Plasticizer-Stabilizer Weighup System and Portable Pneumatic Transfer Unit.

Contracts were let for the following projects: Installation of Piping and Equipment for the Instrument Air Dryer, Color Weigh Room Modifications, and Foundations for the New Air Compressor.

Construction

1. The painting of the lagoon chemical tanks, plasticizer tank 460, light poles and new reactors was completed during the period.
2. Concrete repair work behind the plasticizer building was completed.
3. The area west of V-11 was leveled during the period.
4. The shed for the inert gas generator is complete.
5. The replacement of the cabinet for the laboratory is complete.
6. The installation of the air cannons on 410 silo is complete.
7. The last four dust collectors were installed on the Resin Transfer Debottlenecking project.
8. The concrete stairway for the VCM railroad lead is complete.
9. The platform extension for the old unit turbine meter was completed.
10. A high level alarm was installed on the VCM receiver in the old module.
11. The new line III mill take-off conveyors were installed during the period.
12. The hot tap on the natural gas line for remote read-out was completed.
13. The construction of number 2 resin settling pit is complete.
14. Construction is in progress on the following projects: Resin Settling Pits, Dryer Operation Improvements, Repairs to Dryer Inlet Ducts, Plasticizer Safety Improvements, Additional Dust Collectors, Silo Isolation Valves, Instrument Air Dryer, Additional Air Compressor, Installation of VCM Level Indicators, Double Block Valves for VCM Charge and Drains for the lagoon electrical pits.
15. Twenty-six register tickets were issued for contract work during October.

(1) Thru September, 1979 Actual Accounting
(2) Thru October, 1979

ABERDEEN AUTHORIZATIONS REPORT

AUTH. NO.	CAPITAL DESCRIPTION	DATE APPROVED	AUTH. AFE AMT.	(1) EXPENDED TO DATE	(2) COMMITTED TO DATE	FINAL TOTAL EST. COST COMP.	UNDER (OVER) AUTH. AMT.	EST. COMP. DATE	EST. CLOS. DATE	REMARKS
9126	PVC Reactor Capacity Replacement	7/8/76	8,577,000	8,151,116	8,194,505	8,194,505	382,495	12/78	12/79	Closed to field charges.
9286	Additional Slurry Blend Tank	12/7/76	290,000	287,084	287,084	287,084	2,916	12/78	10/79	Completion report issued.
9087	Resin Silo Aeration	5/16/76	280,000	242,054	242,054	242,054	37,946	12/78	12/79	Closed to field charges.
9147	Phthalic Anhydride Exposure Reduction	6/30/77	45,000	40,290	44,039	44,039	961	11/78	10/79	Completion report issued.
9187	Emergency Reactor Vent Control	9/29/77	33,000	32,547	32,547	32,547	453	5/79	12/79	Completion report issued.
9197	Dryer Area Noise Abatement	9/29/77	45,000	44,011	44,654	45,000	356	10/79	2/80	Closed to field charges.
9227	Plant Emergency Lighting System	10/10/77	65,000	56,925	56,990	56,990	8,010	6/79	12/79	Closed to field charges.
9237	Heated Plasticizer Addition System	10/11/77	37,000	8,350	12,704	37,000	0	3/80	6/80	Design in progress.
9247	Farrell Mixer Feeders	11/21/77	47,000	32,152	33,712	47,000	0	11/79	2/80	Conveyor installation scheduled.
9257	Resin Transfer Debottlenecking	11/16/77	56,000	45,902	55,596	56,000	0	10/79	12/79	Closed to field charges.
9267	Dry Blend Production Expansion	11/23/77	200,000	203,706	203,706	203,706	(3,706)	5/79	12/79	Closed to field charges.
9277	Truck Loading Safety Revisions	11/28/77	16,000	14,929	14,929	16,000	1,071	10/79	12/79	Closed to field charges.
9287	Plasticizer Yield Improvement Test	12/5/77	6,000	3,544	3,544	3,544	2,456	5/79	10/79	Completion report issued.
9297	Automatic Plasticizer-Stabilizer Weighup System	12/14/77	60,000	49,660	56,557	60,000	0	3/80	6/80	Installation scheduled.
9307	Compound Project Conveying Lines	12/14/77	50,000	37,632	42,878	50,000	0	11/79	2/80	Installation scheduled.
9028	Miscellaneous Items Under \$10,000	1/31/78	50,000	44,070	44,070	44,070	5,930	12/78	12/79	Closed to field charges.
9048	Resin Moisture Analyzers	2/24/78	117,000	13,729	13,729	13,729	3,271	5/79	10/79	Completion report issued.
9078	Miscellaneous Projects Under \$10,000	2/24/78	166,000	160,248	160,248	160,248	5,752	12/78	12/79	Closed to field charges.
9088	Replacement Inert Gas Generator	3/28/78	44,000	43,783	43,984	43,984	16	8/79	2/80	Closed to field charges.
9098	New Compound Line	4/17/78	2,050,000	1,761,117	1,965,144	2,076,622	(26,622)	12/79	3/80	Concrete work complete. Structural erection work proceeding. Engineering complete.
9108	Boiler Burner Replacement	5/12/78	170,000	168,640	168,640	168,640	1,360	8/79	10/79	Completion report issued.
9148	Plasticizer Chemical Exposure Abatement	8/21/78	152,000	107,487	124,250	152,000	0	12/79	3/80	Installation proceeding.
9158	Fire Protection Improvements-Phase I	9/19/78	176,000	29,998	38,624	176,000	0	12/79	3/79	Drawings being revised.
9178	Propane Vaporizer Replacement	9/21/78	175,000	161,968	172,136	175,000	0	10/79	1/80	Closed to field charges.
9188	Railcar Resin Heel Cleanup System	10/12/78	55,000	3,643	41,951	55,000	0	12/79	3/80	Test run scheduled.
9198	Debottlenecking-Centrifuge Anti-Chatter Devices	11/7/78	70,000	65,943	65,961	65,971	4,029	5/79	10/79	Closed to field charges.
9208	Spare Recovery Vacuum Pump	12/5/78	14,000	0	14,633	14,633	(633)	11/79	2/80	To ship in November.
9218	Charge Water Heating Improvement	12/8/78	32,000	34,906	35,222	35,766	(3,766)	10/79	12/79	Closed to field charges.
9228	Dry Blend Silo Alarms	12/13/78	25,000	4,392	4,602	25,000	0	12/79	3/80	Prototype test in progress.
9248	Silo Isolation Valves	12/14/78	25,000	15,593	21,238	25,000	0	12/79	3/80	Sixteen of twenty valves installed.
9258	Dryer Operation Improvements	12/14/78	315,000	184,576	229,515	315,000	0	3/80	6/80	Installation proceeding.
9519	Critical Spare Equipment	2/6/79	175,000	19,123	116,337	175,000	0	3/80	6/80	Purchases proceeding.
9529	Miscellaneous Projects Under \$10,000	2/15/79	125,000	108,905	116,139	125,000	0	12/79	3/80	Forty projects approved.
9539	Laboratory Equipment	3/27/79	31,000	19,300	31,156	30,773	227	7/79	10/79	Closed to field charges.
9549	Safety Equipment	3/26/79	15,000	3,573	14,887	15,000	0	10/79	1/80	Closed to field charges.
9559	Color Weigh Room Modifications	4/19/79	25,000	453	11,433	25,000	0	12/79	3/80	Contract awarded.
9569	Miscellaneous Projects Under \$10,000	5/8/79	125,000	48,894	70,344	125,000	0	12/79	3/80	Thirty projects approved.
9579	Additional Office Space	5/11/79	12,500	11,657	11,974	11,974	526	8/79	11/79	Closed to field charges.
9589	Instrument Air Dryer	5/30/79	110,000	0	76,013	110,000	0	12/79	3/80	Installation proceeding.

DTH 000021690

(1) Thru September, 1979 Actual Accounting
(2) Thru October, 1979

ABERDEEN AUTHORIZATIONS REPORT

AUTH. NO.	CAPITAL (continued) DESCRIPTION	DATE APPROVED	AUTH. AFE AMT.	(1) EXPENDED TO DATE	(2) COMMITTED TO DATE	FINAL TOTAL EST. COST COMP.	UNDER (OVER) AUTH. AMT.	EST. COMP. DATE	EST. CLOS. DATE	REMARKS
9599	Reactor Jacket Modification	6/4/79	21,000	18,966	21,000	21,000	0	8/79	11/79	Closed to field charges.
9609	Reactor Inert Vent System	6/28/79	90,000	0	9,999	90,000	0	3/80	6/80	Engineering in progress.
9619	Waste Water Revisions-Part I	7/3/79	140,000	57,332	121,763	140,000	0	12/79	3/80	Installation proceeding.
9629	Air Compressor	7/9/79	340,000	3,133	144,622	340,000	0	12/79	2/80	Purchases proceeding.
9639	Revisions to Emission Recovery System	7/12/79	100,000	225	11,413	100,000	0	2/80	5/80	Engineering in progress.
9649	Double Block Valves for VCM Charge	7/18/79	182,000	0	38,033	182,000	0	1/80	3/80	Engineering in progress.
9659	P A System Modifications	7/10/79	35,000	15,413	21,777	35,000	0	11/79	2/80	Engineering in progress.
9669	New Air Header	8/15/79	25,000	1,031	4,169	25,000	0	12/79	3/80	Engineering in progress.
9679	Plant Winterization	9/5/79	64,000	0	15,000	64,000	0	12/79	3/80	Installation proceeding.
9689	Diking of Sphere and Curbing of Drum Storage Areas	9/15/79	170,000	0	0	170,000	0	3/80	6/80	Engineering in progress.
9699	Plant Dryer Debottlenecking	9/15/79	80,000	0	0	80,000	0	3/80	6/80	Engineering in progress.
9709	Facilities for Multiple Grade Resin Production	9/20/79	870,000	0	0	870,000	0	9/80	12/80	Engineering in progress.
9719	Aberdeen PVC Resin Expansion (Partial)	9/10/79	850,000	0	0	850,000	0	9/80	12/80	Equipment quotes being obtained.
9729	Fire Protection Improvements Phase II	10/1/79	490,000	0	0	490,000	0	10/80	1/81	Engineering in progress.
9739	Methocel Charge Revision	10/3/79	66,000	0	0	66,000	0	6/80	9/80	Engineering in progress.
9749	Improved Rupture Disc Holders	10/22/79	27,000	0	0	27,000	0	4/80	7/80	Engineering in progress.

(1) Thru September, 1979 Actual Accounting
(2) Thru October, 1979

ABERDEEN AUTHORIZATIONS REPORT

AUTH. NO.	EXPENSE DESCRIPTION	DATE APPROVED	AUTH. AFE AMT.	(1) EXPENDED TO DATE	(2) COMMITTED TO DATE	FINAL TOTAL EST. COST COMP.	UNDER (OVER) AUTH. AMT.	EST. COMP. DATE	EST. CLOS. DATE	REMARKS
9238	Compound Line I Roof Collapse	12/13/78	44,000	43,739	43,739	43,739	261	8/79	10/79	Closed to field charges.
9019	Repairs to Large Reactor Gearbox	7/7/79	22,000	5,206	17,651	22,000	0	10/79	12/79	To be received in October.
9029	Repair of Steam Tracing & Insulation	9/5/79	62,000	6,818	51,882	62,000	0	12/79	3/80	Installation proceeding.
9039	Repair of Storm Drains	9/11/79	25,000	21,708	21,708	25,000	0	10/79	12/79	Closed to field charges.
9049	Repairs to Dryer Inlet Ducts	9/13/79	25,000	6,090	15,223	25,000	0	3/80	6/80	Installation scheduled.
9059	Repairs to Dumpster Storage Area	9/13/79	20,000	17,118	17,118	20,000	2,882	10/79	12/79	Closed to field charges.
9069	Centrifuge Rotors Repair	9/13/79	47,000	21,312	21,312	47,000	0	12/79	3/80	One rotor repaired.
9079	Cooling Tower Motor Repair	10/22/79	17,800	0	0	17,800	0	1/80	4/80	Motor being repaired.
9089	Vibration Study-Capacity Replacement Reactors	10/29/79	50,000	0	0	50,000	0	1/80	4/80	Engineering by CED, MED & PED.

DTH 000021691

LABORATORY - R. D. Jackson

CUSTOMER COMPLAINTS

<u>Customer</u>	<u>Product</u>	<u>Complaint</u>	<u>Number</u>	<u>Status</u>
<u>Resin</u>				
Carlton	5305	Contamination	ARP-092879	Report by CRM
Cerro Wire & Cable	5385	Fusion Time	ARP-101679	Report by RDJ
Cerro Wire & Cable	5385	Streamers	ARP-101679	Report by CRM

WAIVERS RECEIVED

<u>Date</u>	<u>Identification</u>	<u>Product</u>	<u>Customer</u>	<u>Reason</u>	<u>Waived by</u>
10/1	CONX 45290	5305	Carlton	RVCM	GGD
10/3	T-1	5385	Certain-Teed	Particle Size	RDJ
10/3	7-2481	5385	World of Plastics	Particle Size	RDJ
10/4	T-1	5385	Certain-Teed	Particle Size	RDJ
10/4	T-2479	5385	Certain-Teed	Particle Size	RDJ
10/4	T-1	5385	Certain-Teed	Particle Size	RDJ
10/5	PTLX 41654	5385	World of Plastics	Particle Size	GGD
10/5	PTLX 41624	5305	Carlton	RVCM	GGD
10/5	T-1	5385	Certain-Teed	Particle Size	RDJ
10/5	T-7768	5385	World of Plastics	Particle Size	RBM
10/9	01105 Bags	5385	Eximplat	Dry Time	GGD
10/9	T-7769	5305	Intex	RVCM	GGD
10/10	T-7769	5305	Intex	Bulk Density	GGD
10/12	CONX 45254	5385	LCP	Bulk Density/Particle Size	GGD
10/12	PLCX 43716	5385	World of Plastics	Particle Size	GGD
10/15	PLCX 43101	5385	LCP	Particle Size	RDJ
10/15	PTLX 41843	5385	LCP	Particle Size	RDJ
10/16	PTLX 41611	5385	World of Plastics	Bulk Density	GGD
10/17	PTLX 41656	5425	Uniroyal	Contamination	GGD
10/18	PLCX 43235	5305	Carlton	RVCM	GGD
10/19	Nine Bag Lots	5305	Export	RVCM	GGD
10/22	PTLX 42016	5385	Carlton	Particle Size	GGD
10/22	PLCX 43743	5385	Charlotte Pipe	Particle Size	CLS
10/24	PTLX 41608	5385	Charlotte Pipe	Particle Size	CLS
10/25	00838/00839 Bags	5385	Implavin	Particle Size	CLS
10/30	00152 Bags	5305	Uniroyal	Viscosity	CLS
10/30	01214 Bags	5425	Nylex	Dry Time	CLS

TOTAL 27

DTH 000021692

PRODUCT DEVELOPMENT AND SERVICE

<u>Ship Date</u>	<u>Product</u>	<u>Quantity (Lbs.)</u>	<u>Customer</u>	<u>Requested by</u>
10/2	5305	10	D.G. Shelter Products	PCM
10/2	36861 Nat.	2	Conoco, Ponca City	JRT
10/9	VRP	1 Gal.	Diecks & Diecks	CLS
10/10	J-50 Methocel	100	Conoco, Ponca City	DW
10/10	5385-I	10	PMC Incorporated	JFN
	5425	10		
10/10	44461 Black	100	Orange Products, Inc.	RNG
10/16	5305	50	Conoco, Ponca City	T. Tuckett
10/16	35851 Nat.	100	Fritz Air Freight	JPM
10/23	34431 Nat.	1000	Phelps-Dodge Cable & Wire	CLS
	35851 Nat.	1000		
10/23	90171	50	Conoco, Ponca City	RBM
10/25	5425	50	General Cable Corp.	NTH
10/30	5465	50	Vynlex of Tennessee	PCM
10/30	5385-1	5	O'Sullivan Corp.	PCM
	5425	5		
	5465	5		
10/30	5465	50	Belden Corp.	MAS
10/31	15041 Cl.B1.50	50	Burgundy Plastics	MAS
10/31	16851 Cl.B1.50	50	Wiman Corp.	MAS

COMPOUND DEVELOPMENT AND SERVICE

Special Compound Testing

Two (2) production lots of 34861 Gray 546 and one lot of 36861 Natural were tested and released for shipment to Western Electric. One production lot of 34533 Natural was approved for shipment to Packard Electric.

New Compounds and Colors

Specifications and quality control standards have been established for ADK-3972-134A experimental compound for Material Control and Superior Plastics.

Electri-Flex has accepted a new gray color submitted to them. It uses a standard Wilson gray color concentrate and will be supplied to them in experimental compound JRT-3866-195 Gray 550.

Dry Blend Development

Multiple laboratory Welex batches of 80172B and 90171 were made for use as quality control standards. Tests were run to see if 80274 dry blend can be worked off at 10% in 80172B and/or 80273G. The blends varied sufficiently from the control compounds that when combined with normal production variations the blends might not meet specifications. When 30% 5465 was used with 70% 5385 in the 80273G formula, the Brabender properties were very close to the control 80273G properties.

QUALITY CONTROL TESTING

Resin

Regular Samples = 696
Bulk Shipments = 185 (Railcars = 92, Trucks = 93)
Other In-Process Samples = 3178

Dry Blend

Blenders Produced = 569
Blenders Adjusted = 0.5%
Bulk Shipments = 58 (Railcars = 22, Trucks = 36)
Blenders Tested = 311
Other In-Process Samples = 88

Compound

Blenders Produced = 584
Blenders Adjusted = 6.0%
Bulk Shipments = 25 (Railcars = 6, Trucks = 19)
Other In-Process Samples = 50

Resin Heat Stability

Thirty-six blends of resin were tested for oven heat stability. They were distributed as follows:

5385 - 16 Blends
5425 - 12 Blends
5305 - 8 Blends

While one (1) blend of 5385 was 15 minutes poorer than the control, all types averaged better than their controls.

RVCN of Shipments

A total of 105 bulk shipments were tested for RVCN in October. A summary by product is listed below.

Product	5385	5425	5465	5305	Dry Blend
Average RVCN	1.5	0.7	2.1	8.0	1.0
No. of Samples	63	7	1	18	17

Raw Material Testing

Thirty-two (32) lots of plant raw materials were tested and released. There were no rejections.

SPECIAL PROJECTS

Volume Resistivity of Resins

Recent production blends of 5425 and 5465 resin have given acceptably high values for volume resistivity.

Blends of 5385 resin stabilized with PC-555 anti-oxidant gave volume resistivity values close to the 5385 control resin.

RVCM of Slurrys

The results of RVCM analysis on reactor slurry samples were good in October. The daily average did not exceed 400 ppm during the month. A total of 668 slurry samples were tested out of 682 batches made. This represents 97.9% of the batches tested.

RVCM Dryer Samples (5305)

During October 92 dryer and 5305 resin samples were tested for RVCM. The average for these samples was 16 ppm.

RVCM of Blowdown Tank Water

A total of 195 samples were tested for RVCM. The average for October was 3 ppm RVCM.

Lab. Computer

Programming is essentially complete. We have encountered a circuit board defect and are working with the manufacturer to resolve the problem.

SURFACE TRANSPORTATION
 ABERDEEN DISTRIBUTION WAREHOUSE
 OCTOBER ACTIVITY REPORT, 1979

<u>Shipment by Product - M/Lbs.</u>	<u>October</u>	<u>Year-to-date</u>
Resin	22792	210555
Plasticizer	164	870
Dry Blend	5153	41883
Compound	3347	39111
Total	31456	292419

Number of Shipment by Mode

	<u>R/C</u>	<u>O.T.</u>	<u>C.C.</u>	<u>C.O.T</u>	<u>TOFC</u>	<u>CPU</u>	<u>TOTAL</u>
Resin - Bulk	75	50	17			25	167
Package		3	2		1	7	13
Export - ABR		162	15				177
Plasticizer - Bulk						4	4
Dry Blend - Bulk	23	19	1			14	57
Package		2	2				4
Compound - Bulk	8	14	4			19	26
Package		5	6				30
Export - Package	<u>106</u>	<u>255</u>	<u>47</u>	<u>—</u>	<u>1</u>	<u>69</u>	<u>478</u>
Back Hauls for October		18	1				

Number of Shipment by Month-Year-To Date

	<u>R/C</u>	<u>O.T.</u>	<u>C.C.</u>	<u>C.O.T</u>	<u>TOFC</u>	<u>CPU</u>	<u>TOTAL</u>
January	103	166	12	7	7	56	351
February	101	119	10	0	3	36	269
March	110	145	21	2	8	49	335
April	117	191	11	1	4	42	366
May	148	153	14	1	10	40	366
June	154	143	13	0	2	34	346
July	120	65	1	0	2	43	231
August	132	131	2	0	0	77	342
September	125	227	48	0	8	92	500
October	106	255	47	0	1	69	478

SAFETY REPORT

	<u>OCTOBER</u>	<u>Y.T.D.</u>	<u>GRAND TOTAL SINCE L.T.A.</u>
Lost Time Accident	0		
Doctor Cases	0		
First-Aid Cases	0		
Man Hours Worked	2195	23646	136962

MATERIAL HANDLING REPORT

	<u>M/Lbs.</u>	<u>T/L</u>
Packaged Resin From Production	6480	160
Packaged Compound, Dry Blend From Prod.	1660	41
Transferred From Main to Prairie	2835	70
Transferred From Prairie To Prairie	0	0
Reverse Transfer Resin to Plant	365	9
Reverse Transfer Cmpd. to Plant	81	2
Shipment From Warehouses	8869	219
Special Packaging	7169	177
Transferred From Prairie to Main	1215	30
	<u>28674</u>	<u>708</u>

LABOR REPORT

Total regular Hours	1553
Total Overtime Hour	162
Total Worked	<u>1715</u>
Paid but not Worked	0
Total	<u>1715</u>

Labor Efficiency equals
28.7 MM/Lbs. - Hours Worked 16720
Overtime % 10.6

EQUIPMENT REPORT

Lift Truck Hours Worked 379
Gal of Fuel Consumed 500
Gals/Hrs 1.3

Lift Truck Efficiency Equals
28.7 MM/Lbs. - Hours Worked - 75657 Lbs./hr.

OFF-GRADE IN STORAGE

<u>MATERIAL</u>	<u>M/lbs.</u>	<u>T/L</u>
Sifter Overflow	135	3
Resin "BC"	468	12
Resin "H"	524	13
Mill Scraps	50	1
Compound "B"	448	11
Compound "H"	46	1
Dry Blend "O.G."	<u>21</u>	<u>1</u>
TOTAL	1692	42

CHRYSLER STORAGE

Balance, October	936570	23
Transferred during month	<u>669100</u>	<u>17</u>
TOTAL	267470	6

D.F. OPERATION

Our packaged goods inventory dropped 1.2 MM/lbs. during the month. The reason for this is that export shipments were slightly higher than the month before. We were shipping as fast as resin production was packaging material.

CONOCO TRANSPORTATIONABERDEEN WAREHOUSE

<u>LOCATION</u>	<u>TOTAL M SQ. FT.</u>	<u>CONTENTS</u>	<u>ESTIMATED MM POUNDS</u>		
			<u>ON FLOOR</u>	<u>OPEN</u>	<u>TOTAL</u>
MAIN-East	48	Compounds			
			5.3		
		Dry Blend	.2		
		Export Resin	.3		
		Conoco Resin	.2	6.0	4.0
					10.0
Prairie 12-1	12	Compound	.2	1.3	1.5
12-2	22	Resin	.		
		Export Resin	1.3	2.2	3.5
12-3	21	Conoco	.		
		Export Resin	.3		
			.	3.2	3.5
12-4	22	Conoco Resin	.1		
		Resin O.G.	.2	.3	3.2
					3.5
12-5	21	Mill Scraps	.		
		Cmpd O. G.	.4		
		Dry Blend O. G.	.		
		Sifter Overflow	.1		
		Resin O. G.	.	.5	2.0
					2.5
12-6	21	Compound	.2		
		Dry Blend	.		
		Raw Material	.2	.4	3.1
					3.5
12-7	21	Resin O. G.	.6	.6	2.9
					3.5
12-8	21	Conoco	.	3.5	3.5
		Total on Hand	9.6	25.4	35.0
		Chrysler Resin	(.3)		
Total	20.9	Total Conoco	9.3		

ABERDEEN OSHA RECORDABLE INJURIES

12 MONTH MOVING AVERAGE

INJURY FREQUENCY* X 100

20

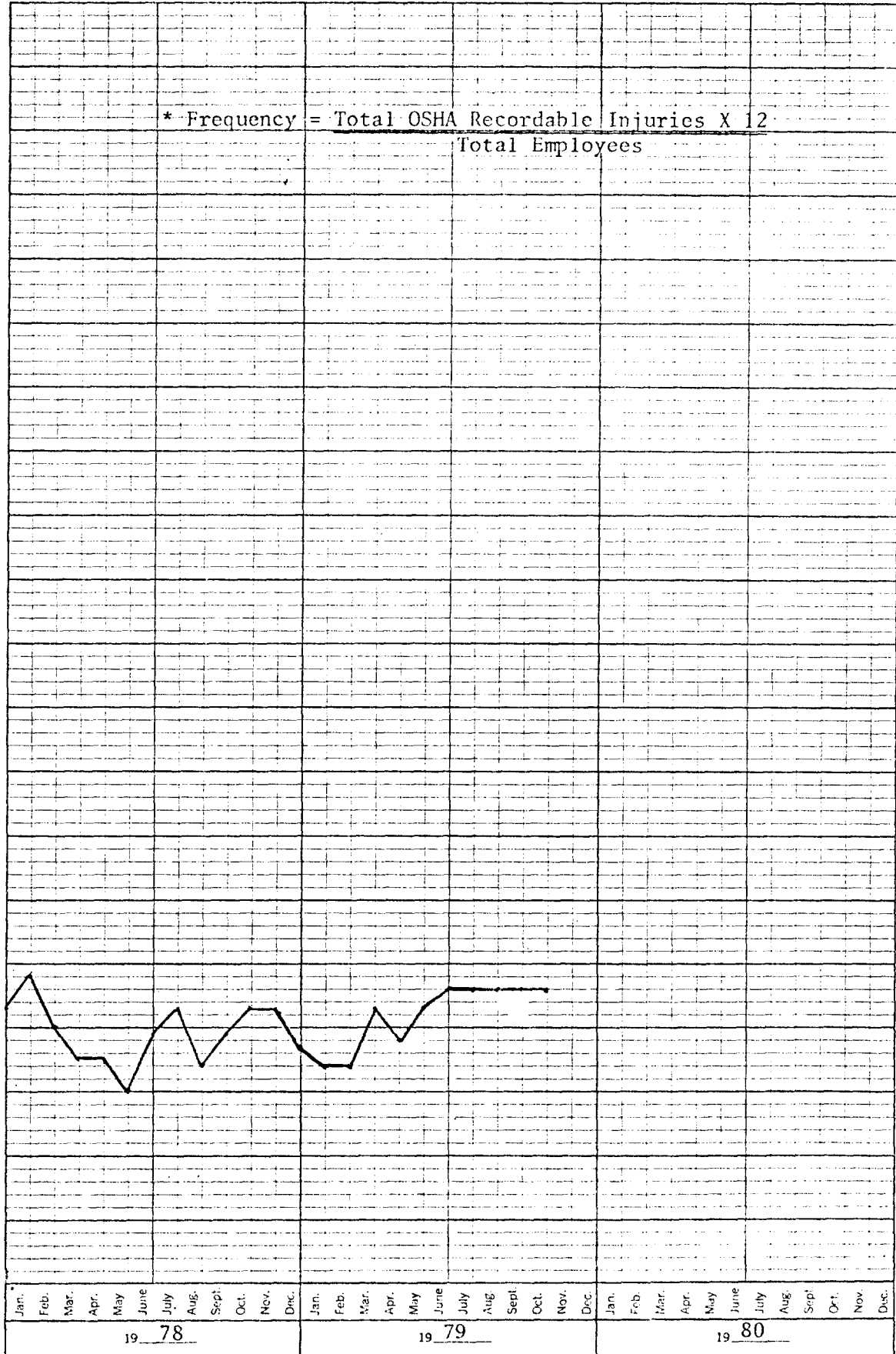
15

10

5

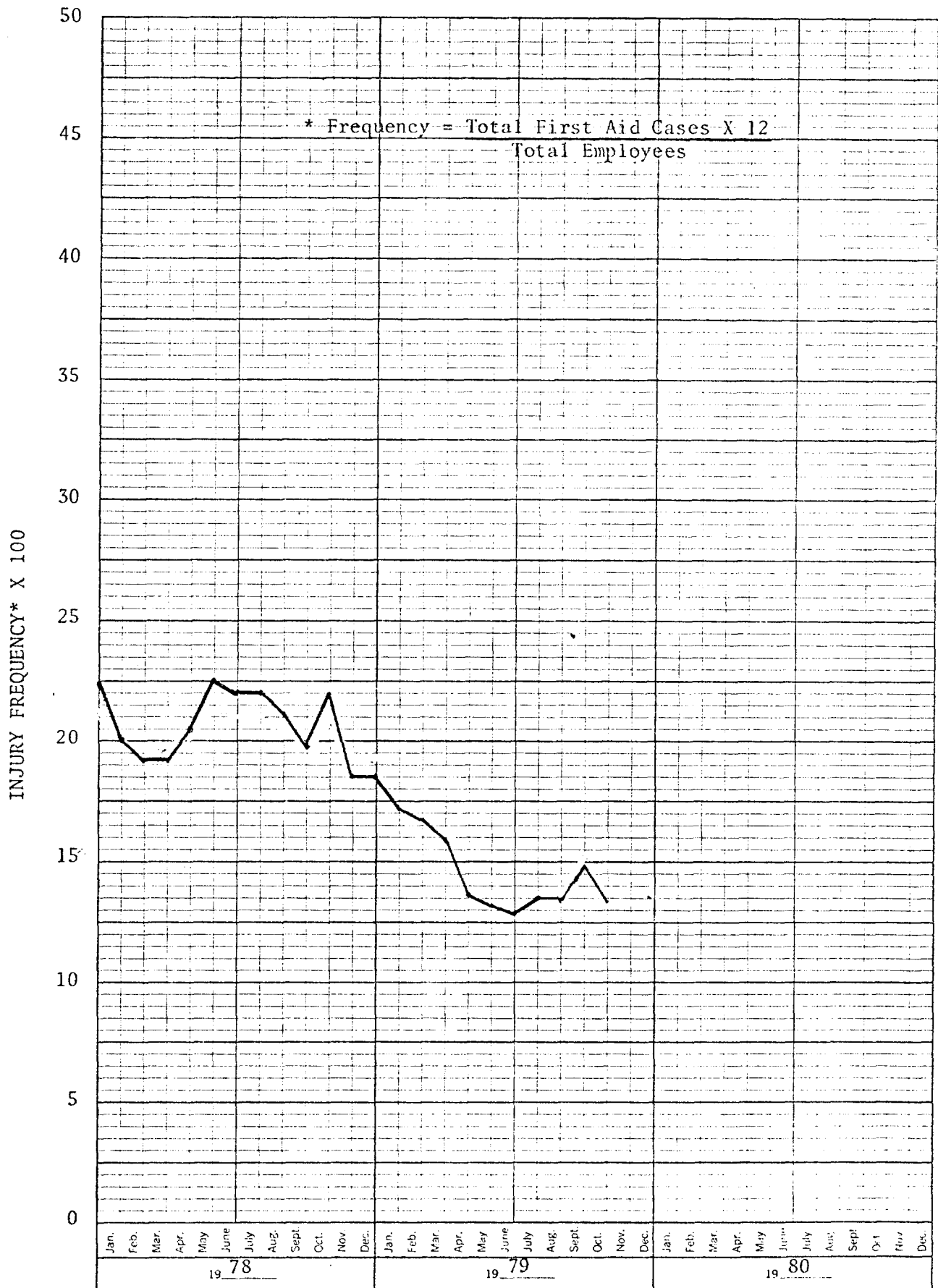
0

$$* \text{ Frequency} = \frac{\text{Total OSHA Recordable Injuries} \times 12}{\text{Total Employees}}$$

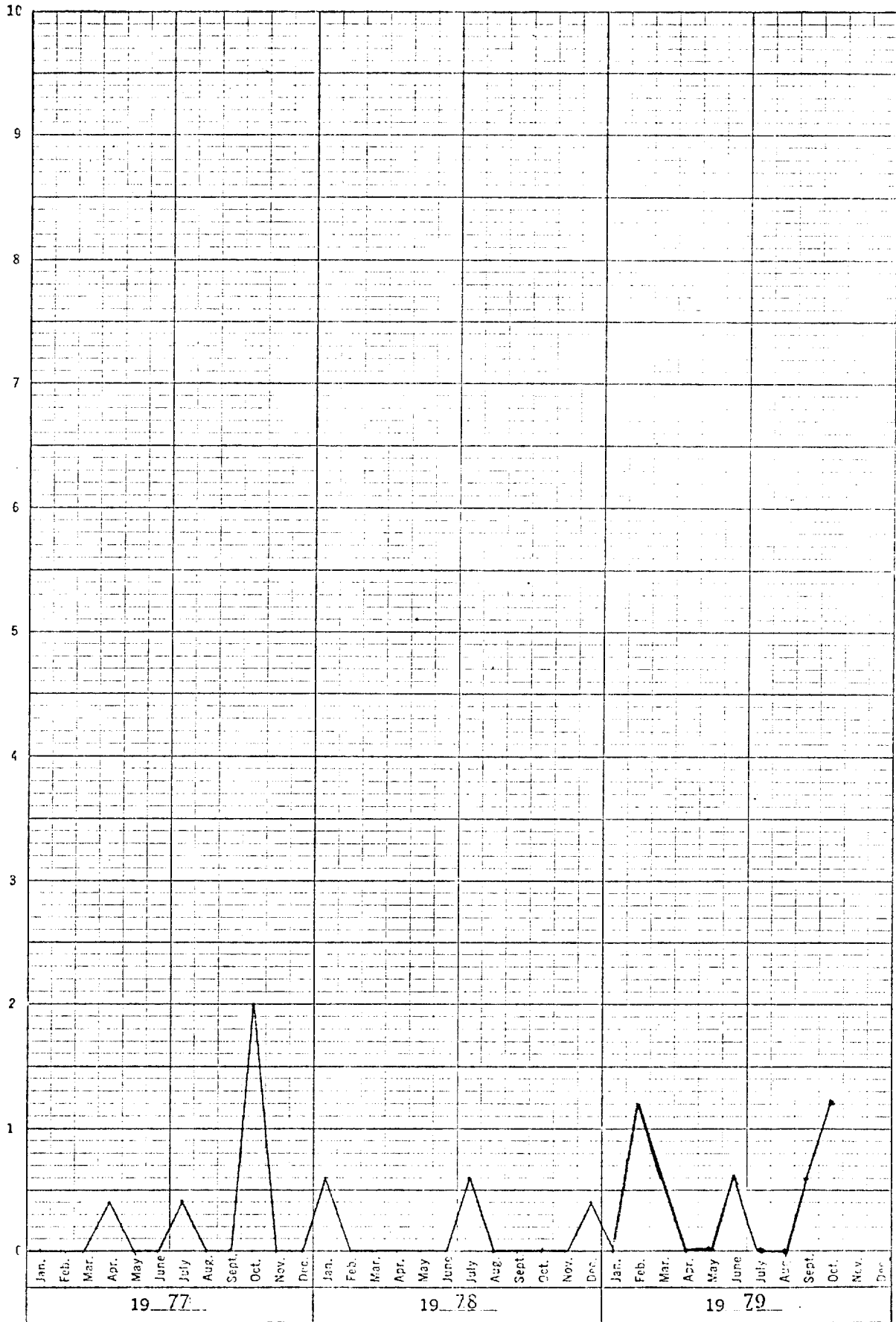


ABERDEEN FIRST-AID CASES

12 MONTHS MOVING AVERAGE

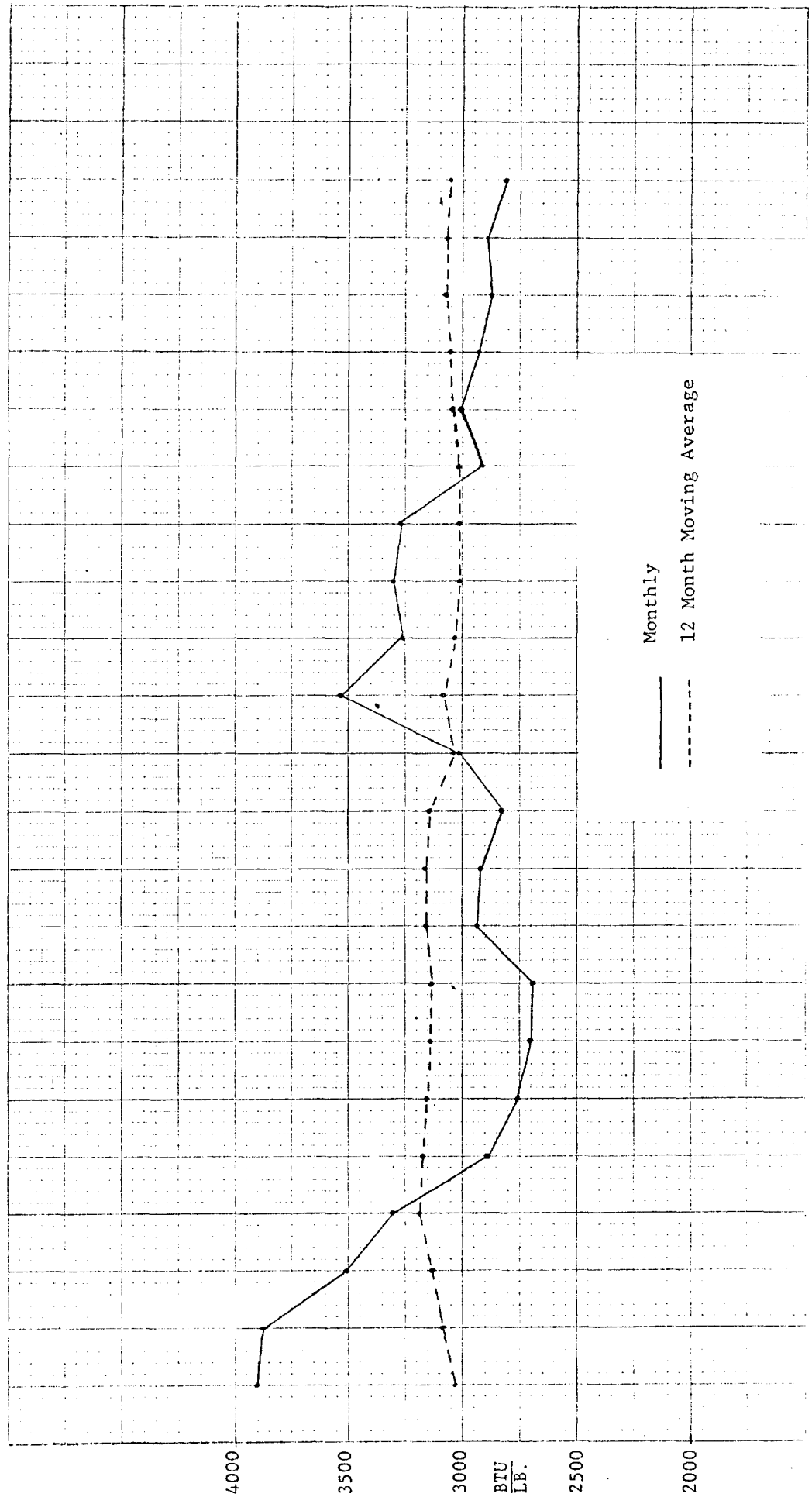


MONTHLY HOURLY TURNOVER



KE 3 YEARS BY MONTHS 46 3290
X 100 DIVISIONS
MADE IN U.S.A.
KEUFFEL & ESSER CO.

ENERGY USAGE



Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. 1978 1979

ABERDEEN PLANT PRODUCTION

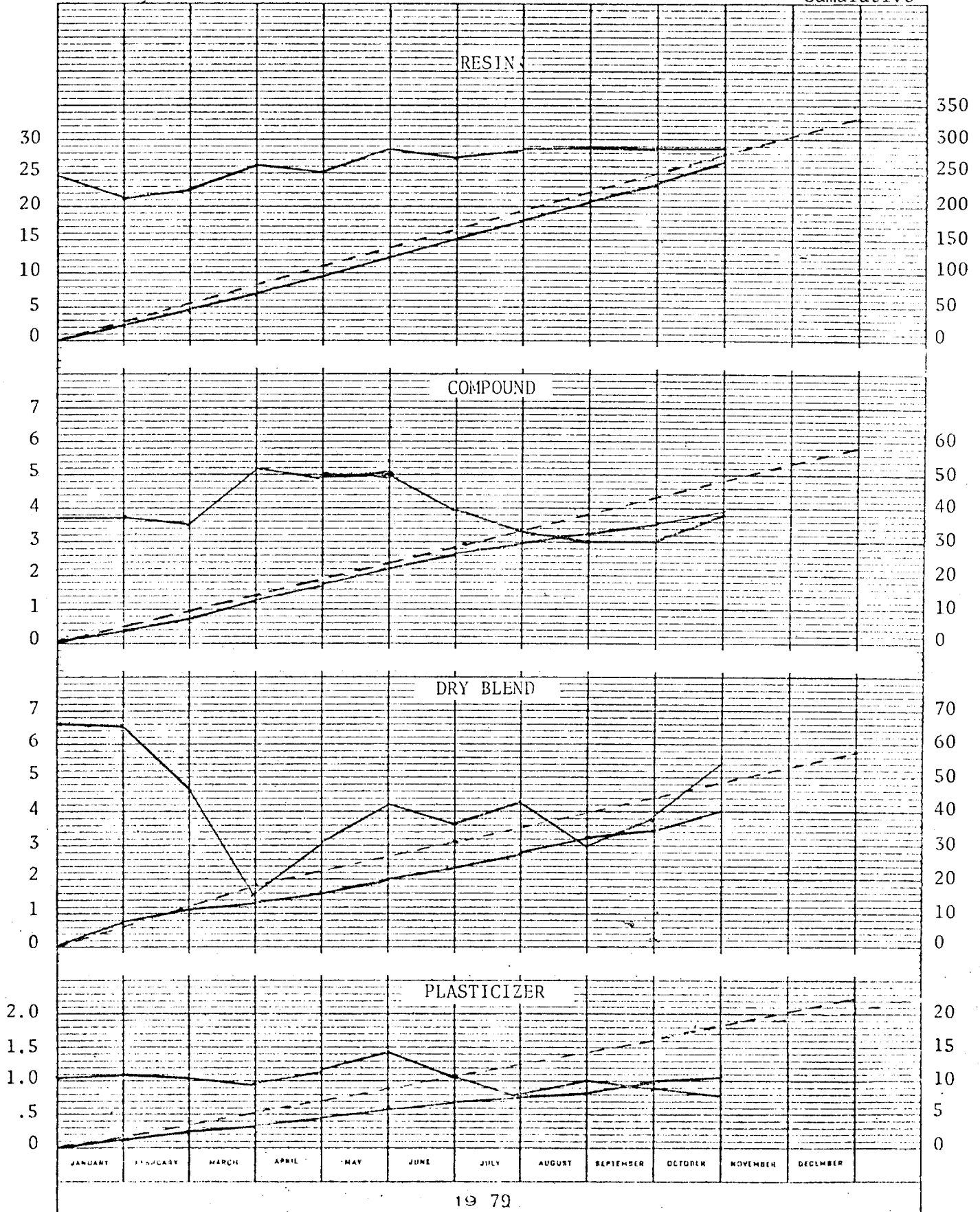
MM Pounds
Monthly

1979

MM Pounds
Cumulative

EUGENE DIETZGEN CO.
MADE IN U. S. A.

NO. 340-724 EUGENE DIETZGEN GRAPH PAPER
ONE YEAR BY MONTHS



19 79

ABERDEEN PLANT EFFICIENCY

1979

POUNDS OF RAW MATERIAL/POUND OF PRODUCT

VINYL CHLORIDE CONSUMPTION

EUGENE DIETZGEN CO.
MADE IN U. S. A.

1.06
1.04
1.02
1.00

Standard
1.01960

COMPOUND RAW MATERIAL CONSUMPTION

NO. 340-124 DIETZGEN GRAPH PAPER
ONE YEAR BY MONTHS

1.06
1.04
1.02
1.00

Standard
1.01300

DRY BLEND RAW MATERIAL CONSUMPTION

1.03
1.02
1.01
1.00

Standard
1.00320

PLASTICIZER RAW MATERIAL CONSUMPTION

1.20
1.15
1.10
1.05
1.00

Standard
1.12080

JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER

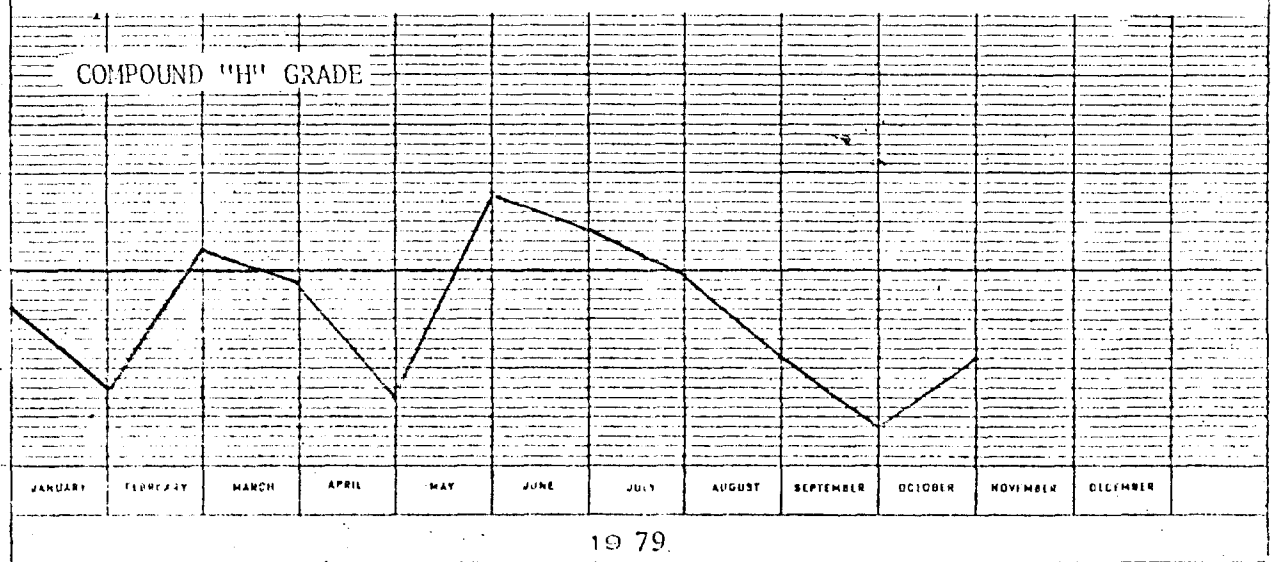
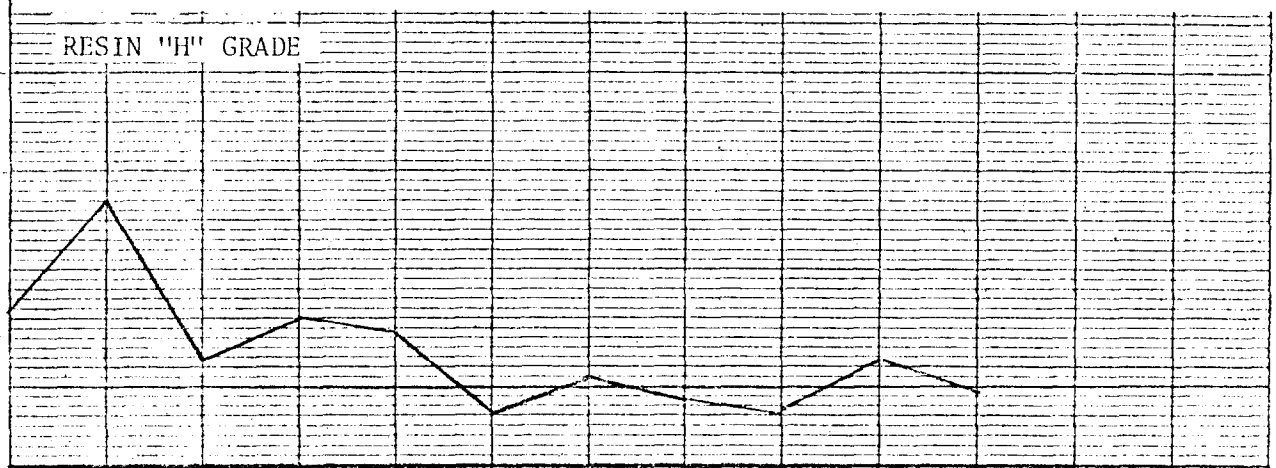
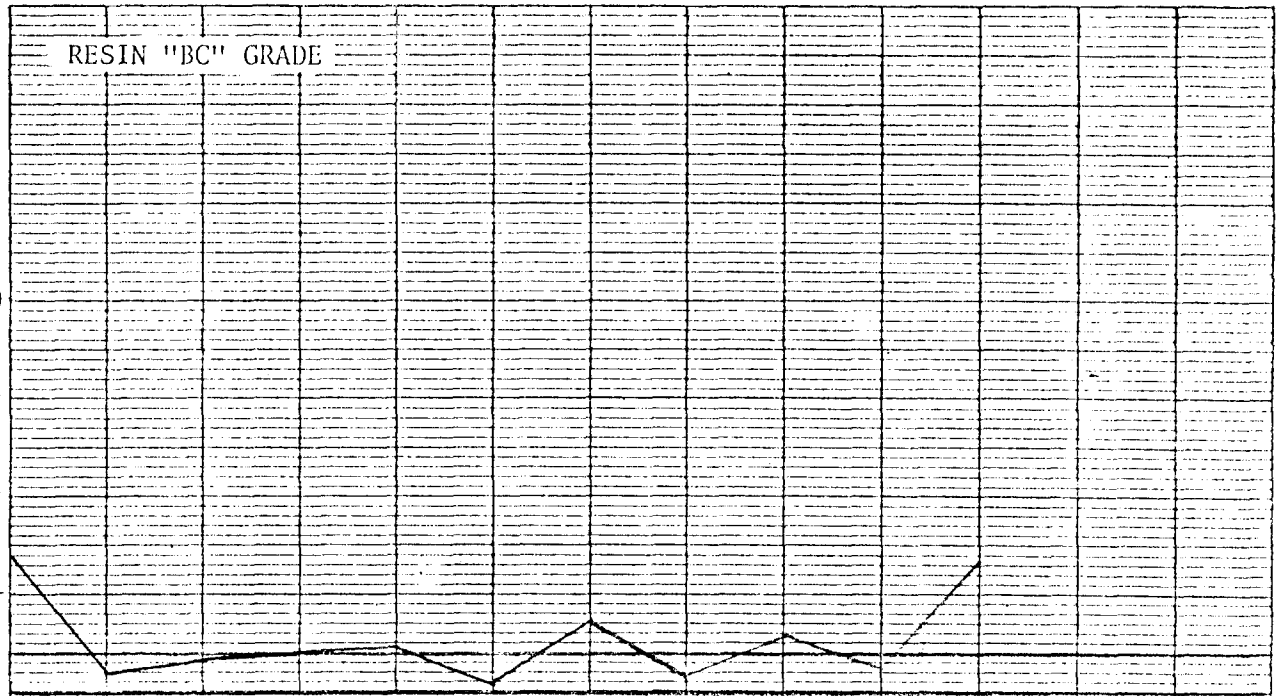
19 79

DTH 000021705

ABERDEEN PLANT QUALITY PERFORMANCE

1979

% Off Grade



LUGENE DIETZGEN CO.
MADE IN U. S. A.

LUGENE DIETZGEN GRAPH PAPER
ONE YEAR BY MONTHS

1979

MM Pounds

3300124 DIETZSEN CO.
MADE IN U.S.A.

3300124 DIETZSEN CO.
ONE YEAR BY MONTHS

