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1981

ANNUAL SAFETY * HEALTH REPORT



INDUSTRIES

SL 103211

FOREWORD

This report is in three parts; the 1981 Report, 1981 Accomplishments, and a statistical review with charts.

Reporting are:

All the Corporation's U.S. Plants	40 Units
All the Corporation's U.S. Research & Development Centers	5 Units
All the Corporation's U.S. Sales and Distribution Outlets	14 Units
All the Corporation's U.S. Contract and Supply, Sales and Distribution Centers	9 Units
The Corporation's Canadian C&R and Chemical Plants	4 Units
The Corporation's Canadian C&R and Chemical Sales and Distribution Outlets	<u>4 Units</u>
TOTAL	76 Units

Your comments concerning the format or content of this report are welcome. Send these to H. Clark Underwood, Director, Safety & Health, 14 West, Building One, General Office.

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PART I - 1981 REPORT

OVERVIEW

The reduction of industrial accidents and illnesses is not an exact science and, as a result, our experience can vary from one year to the next. However, an examination of the record over a number of years does reveal trends.

PPG's recorded experience extends back 62 years to 1919 when we were experiencing 12 disabling injuries per 100 employees each year. Although sawtoothed in nature, the rate chart of this experience has shown a gradual reduction to our current rate of 0.60.

A closer examination of the experience in the last ten years shows a slight improvement from 0.64 disabling injuries per 100 employees in 1971 to the 1981 experience of 0.60. (See rate chart on pages and . The most important statistics follow.)

<u>Year</u>	<u>Corporate NSC Incidence Rate</u>	<u>Corporate Goal</u>	<u>Mfg. Segment NSC Incidence Rate</u>	<u>Mfg. Goal</u>
1981	0.60	0.55	0.37	0.35
1980	0.58	0.44	0.36	0.33
1979	0.59	0.43	0.40	0.33
1978	0.53	0.42	0.42	0.32
1977	0.51	0.47	0.39	0.37

The three years from 1977 to 1979 showed an increase from 0.51 to 0.59. The last three years (1979 to 1981) shows a flat experience near the 0.59 mark.

The manufacturing segment NSC rate was 0.37 which continues the improvement experienced in 1980 when the plateau near 0.40 was broken for the first time in several years.

Last year a significant reduction was reported in the number of "Restricted Activity" cases when 1/3 less cases and days lost were reported. 1981 erased part of the gain in 1980 but still down 136 cases from 1979. A total of 553 cases involving 8,750 days lost were reported in 1981.

Adding the days lost due to disabling injuries to the restricted activity days lost, the Corporation experienced 13,760 days of lost productivity where the employee was unable to do his regularly scheduled job. This amounts to roughly 55 man years where the jobs had to be filled with substituted, retrained or overtime employees.

On the bright side, the chart on page 29 which reflects the various segments of U.S. Industry and their rates as reported to the National Safety Council, PPG at 0.60 is better than any segment including Chemical at 0.69 and stone, clay and glass at 4.94. Had PPG operated at the same level as all the industries rate 2.79, we would have experienced over 800 additional disabling injuries and 49,000 additional days lost. (No data is available on Restricted Activity cases which are a larger category and would add substantially to this.)

CONGRATULATIONS ARE IN ORDER TO THE MANUFACTURING SEGMENT AND ALL THOSE WHO CONTRIBUTED TO HELP MAKE PPG A SAFE AND HEALTHFUL PLACE TO WORK.

GOALS

The record shows that the goals established for the total Corporation have not been achieved in any of the last ten years. 1981 was no exception with a goal of 0.55 and our experience at 0.60. The chart on page 62 shows the performance by month in 1981 and indicates that January and February were good. The Spring performance was over goal but by July both the Corporation and the Manufacturing segment were at goal. The remainder of the year was continually above goal after a poor August performance.

CONGRATULATIONS ARE IN ORDER FOR THE C&S DIVISION AND THE FIBER GLASS DIVISION FOR OPERATING AT AN NSC RATE LOWER THAN THEIR GOAL FOR 1981.

ACCIDENT COSTS AND ANALYSIS

In 1981, PPG experienced \$4,016,000 in direct costs associated with industrial injuries and illnesses. This represented an increase of 16% from 1980. (See the pie charts on pages 30 and 31.)

It should be borne in mind that the direct accident costs quoted represent only those costs reported monthly relating to treatment. At the end of each year, a special reserve fund to cover open cases is set up. This year \$962,000 was set aside to cover these projected costs. In addition, \$530,000 was spent to cover administrative costs and to purchase excess insurance. The cost of non-manufacturing claims and their handling was \$1,237,727. As a result, the total monies either spent or set aside in 1981 for injuries and illnesses was \$6,030,097 an increase of 23% over 1980.

In 1981, \$15.88 of net sales had to be generated for each dollar of net profit. On that basis \$96.8 million of sales were produced just to cover the cost of our industrial injuries and illnesses. (This is without consideration for indirect costs such as overtime, replacement, retraining, or operating dispensaries.)

ANALYSIS OF 1981 DISABLING INJURIES

The Corporation experienced one fatality in 1981. A C&S employee was killed when he fell as he was getting off a swing stage.

During the year 171 employees suffered disabling injuries which resulted in 5,010 days lost (see pages 33-36 for summaries). For the total Corporation, "Strains and Sprains" again accounted for the largest segment - 31% which was up 7% from last year. (Of these, once again, about three-fourths were back injuries.) "Struck By" injuries accounted for 23% and "Falls" were 19%.

Comparing the breakdown of disabling injuries with last year there was an increase in "Strains and Sprains" from 24% to 31% but a reduction in "Caught Between" injuries from 11% to 6%.

A bright note appears in that there were no disabling injuries which were occupational disease or health related. All other categories of injuries were approximately the same.

The manufacturing segment of the business accounted for 73 of the 171 or 43%. Last year an improvement was noted in that this segment of the business reduced their percent of the total from 49% to 42%. We are happy to report that this level is being maintained. (See page 35.)

The C&S Department of the Glass Divisions experienced 78 disabling injuries accounting for 46% of the total Corporation. "Strains and Sprains" were the largest category at 31% with slightly less than three-fourths being back injuries. Twenty-eight percent of the C&S disabling injuries were "Falls" most of which were from a different level. (See page 37.)

SAFETY AWARDS

PPG Industries Corporate Award Programs

The Corporation has two award programs. The first program recognizes a location's performance on a calendar year basis. The second recognizes a location's performance for operating beyond a specified length of time based on location population. These awards often take several years to achieve. These are in the order of increasing difficulty to achieve:

The President's Award
The Special Recognition Award
The Executive Award



DIFFICULTY

Calendar year 1981 achievements.

The PPG Award of Honor was presented to 37 reporting units which completed the calendar year 1981 without a death or a disabling injury. Twenty of these units have achieved this distinction for two or more years. Of special note were: the Barberton, OH Technical Center's 19th consecutive year, the Ditzler Warehouse's 9th consecutive year, the C&R Industrial Sales' 8th consecutive year, and Works #23, Creighton, PA 5th consecutive year. (See chart page 52.)

The PPG Award of Merit was presented to seven locations in 1981 for their performance in 1980. This award recognizes significant safety achievements for locations not eligible for the Award of Honor. In addition, 13 locations have made application in 1982 for the Award of Merit for their achievements in 1981.

On-Going Records

The Corporation had two locations with noteworthy safety and health achievements in 1981. Setting a new all-Corporate record, the BARBERTON TECHNICAL CENTER operated over 10 million manhours and over 19 years without a disabling injury. WORKS #53, LEXINGTON, NC, Fiber Glass Division, broke the Cumberland plant manufacturing record of 8,447,386 manhours without a disabling injury. The Lexington record started on April 4, 1971 and as of December 31, 1981, both locations continue with their outstanding records.

Congratulations were extended to four locations in 1981 for their safe operation in achieving the Corporation's Special Recognition Award. No deaths or disabling injuries were experienced by Works #23, Glass Division, 1,758 days; the Coatings & Resins Research and Development locations, 882 days; C&R Cleveland, OH, 857 days; and Industrial Chemicals Natrium, WV, 571 days.

Six locations achieved the Executive Safety Award. No disabling injuries were experienced by C&R East Point, GA, 738 days; C&R Springdale, PA, 655 days; C&R Delaware, OH, 541 days; Glass Crystal City, MO, 491 days; Glass Meadville, PA, 406 days; and Industrial Chemical Natrium, WV, 330 days. (See chart on page 54.)

National Safety Council Award Program

The National Safety Council each year presents their Award of Honor, Merit, Commendation, and a President's citation to qualifying corporations and individual locations based on a calendar year. During the year 1981 the Corporation as a whole did not qualify for an award but 27 individual locations achieved National Safety Council recognition (see page 55 for summary).

Private Truck Council of America Award Program

This award program recognizes outstanding safety performance by private truck fleets on a calendar year basis. The top award--the Gold Seal--was presented to Works #26, Crestline, OH, in 1981, for their performance in 1980. Crestline operated 360,185 miles and a complete year without experiencing an accident of any kind. In addition, the Crestline fleet won a Perfect Record Certificate in the National Safety Council's Fleet Safety Contest. Other Gold Seal awards were won by the C&S branches at Amarillo, TX; El Paso, TX; Lemoyne, PA; Memphis, TN; Oklahoma City, OK; San Antonio, TX; and Tulsa, OK.

Works #27, Tipton, Pennsylvania, won the Silver Seal Award in the Private Truck Council's program for an outstanding five year performance record. A Red Seal Award was won by the Houston, Texas, C&S branch for reducing its Accident Frequency Rate by over 40%.

OSHA INSPECTION EXPERIENCE

During 1980, occupational safety and health compliance officers conducted 45 inspections at PPG locations. (See charts on pages 58 and 59.) We have been experiencing an average of 43 inspections per year since 1971. The high level of activity during 1979 and 80 was abated somewhat in 81. Once again, however, the C&S department received 30 of the 45 inspections accounting for 2/3 of the activity.

The most often stated reason for inspection by OSHA was because we were a subcontractor on a construction site - 53%. This is up from the overall experience since 1971 - 41%. This historical rate for employee complaint as a reason for inspection is 20%, while 1981 posted 24%. Of significance, is the fact that there were no industrial hygiene inspections in 1981 and only one follow-up inspection.

The Corporation has incurred a total of \$47,754 in fines since 1971 with \$2,755 of that experienced in 1981. During the two previous years, the total number of penalties were higher with the subsequent higher yearly total dollars spent.

EMERGING ISSUES

OSHA Noise Standard

The OSHA standard for an audiometric testing program and the possible amendment to that standard can have a major impact upon some PPG operations. The degree of audiometric testing and the type of testing required may result in a need for further training, audiometric technicians, greater need for consulting physician, and increased attention to the necessary controls to assure no loss of hearing of PPG employees.

Foreign Ventures

The U.S. Occupational Health and Safety Standards and those in other countries may be significantly different. To effectively manage ventures in other countries, it is necessary to understand the differences in regulatory policy and intent as well as the awareness and attitude of the employee toward safety and health. This requires additional oversight of these operations to assure compliance with PPG Safety and Health protection guidelines.

Workers' Compensation

In the decade of the 70's, Workers' Compensation weekly benefits increased dramatically along with a liberalization of definitions as to who should receive benefits. This has resulted in a significant increase in these costs to industry and PPG. Pennsylvania and Ohio are now considering reform of Workers' Compensation laws. PPG will be involved in this process to more closely manage this area of increasing cost.

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PART II - 1981 ACCOMPLISHMENTS

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CORPORATE SAFETY ACCOMPLISHMENTS

Program Development

The Resources Protection Manual containing the Corporation's guidelines on safety was reviewed and updated in more than ten areas. Major revisions occurred in contractors safety, investigations of in-plant occupational deaths, continuing education for safety professionals and an employee recognition program for persons saving a life on the job.

The Corporate Safety Staff continued to work with the New Corporate Headquarters Building Team to ensure the life safety of all occupants when it is completed.

A five-year retrospective study was done by Corporate Safety on the number of workers compensation claims experienced and the cost of these claims. Detailed data was gathered on claims over \$5,000.00. Approximately 10,000 pieces of data were handled to arrive at trends and conclusions on how to more effectively manage this area of increasing costs. A comprehensive report was published in early 1982.

Training

The major portion of the work involved in implementing the PPG Supervisors Safety and Health Program was completed. Nearly 3,000 supervisors and management personnel have been trained.

A video tape was prepared and made available to the operating divisions which summarizes PPG's position and the law with respect to management's criminal liability in the safety, health, and environmental areas.

A corporatewide safety and health conference was held with safety directors from all the plants and divisions participating. During this meeting J. E. Burrell and V. L. Tofany (National Safety Council President) presented 27 awards won by various units during calendar year 1980.

Corporate Safety personnel participated in 4 training sessions for newly appointed supervisors conducted by the Human Resources Development Group. In addition, support for the Western Pennsylvania Safety Council was supplied thru training assistance in 6 key man and other council training.

Evaluations

As noted on the Visitation Matrix (page 60 and 61) Corporate and divisional personnel made formal safety visits to most of the Corporation's manufacturing locations during 1981. Reports on these evaluations noted strengths and weaknesses to provide guidance for the continuing development of local safety programs.

Coordination

The Corporate Manager of Safety chaired the Safety Advisory Staff to continue the coordination of Corporate and divisional safety personnel on

issues of interest. The Safety Advisory Staff also works on the development of Company positions relating to all areas of safety.

CORPORATE HEALTH ACCOMPLISHMENTS

Program Development

Consultation was provided to the divisions on the development and testing of health audit programs to measure the effectiveness of plant occupational health programs.

Training

Technical input was provided for training programs for personnel in three divisions.

The number of industrial hygienists certified in the practice of industrial hygiene, industrial hygienists in training and those certified in toxicology has remained constant in both 1980 and 1981 even though there has been some turnover in personnel. The distribution is as follows:

Division	Certified in Comprehensive Practice	Industrial Hygienist in Training	Certified in Toxicology	Industrial Hygienist
Corporate	1	0	0	1
Chemical	0	3	3	13
Glass	2	2	0	7
Fiber Glass	0	1	0	2
C&R	2	2	0	5
Total	5	8	3	28

Regulatory Monitoring and Input

The Corporate Health Staff coordinated the development of Corporate positions and responses to federal regulatory efforts, including such regulatory agencies as the Occupational Safety and Health Administration and the Toxic Substance Control Act.

Coordination

The Manager of Health Services Administration chaired the Health Advisory Staff meetings as a part of the activities of the Employee Health and Safety Subcommittee of the Environmental Affairs Committee. During the year, 117 occupational exposure limits were recommended to the Environmental Affairs Committee for subsequent distribution to the divisions for implementation as Corporatewide employee exposure limits. These included 10 new limits, the deletion of two limits and the changing of the levels of 20 additional limits on physical or chemical agents. Of the recommended list 72 are the same as the ACGIH Threshold limit values and 30 the same as OSHA standards.

Thirty-four have been developed by PPG including 14 for which no external standards are available from other sources.

A reproductive effects policy was developed based in part on the operating procedures developed by the Health Advisory Staff in 1980. Implementation of this policy is now being developed by the divisions. A number of chemical and physical agents that could cause reproductive effects were reviewed by a consultant and the result of that review distributed to the division health staff.

In addition, the Manager of Health Services Administration participated as part of the Technical and Product Safety and Liability Subcommittee of the Environmental Affairs Committee, and participated in trade and technical associations.

Consultation was provided to plant health programs in cooperation with division and plant management and provided consultation to division, plant management and the Law Department on OSHA citations. Also divisional consultation was provided on toxicity testing and premanufacturing notifications.

CORPORATE MEDICAL ACCOMPLISHMENTS

The most significant accomplishment for 1981 was the complete revision of the Executive Physical Examination Policy and Program. This was primarily a basic change in philosophy from allowing the examining physicians and clinics to determine the content of the examination, to PPG's outlining specific tests and procedures which determine the scope and content of the examination. PPG now has control of the program. We have established a parity for examinations across the corporation and have significantly reduced costs through these changes.

The Corporate Medical Director presented a completely new medical program to the Coatings and Resins Division top management. The result was an expansion of their medical/health services to include all employees. This program will do several things:

- a. It will match clinical medical findings with exposure data by way of their divisional computer.
- b. It will have the ability to isolate trends before they reach a crisis level and can assure and/or inform C&R division management that its products are safe, hazardous, or potentially hazardous to the health of employees, and thus indirectly to their customers.
- c. It will provide data for any epidemiological studies that we are required or want to do.

The Corporate Medical Director participated on committees and working groups as requested.

Note the Visitation Matrix (page 60). These included a complete plant tour and introduction to the Plant Manager and his management team members. The Plant Physician was interviewed and counseled relative to the position of

PPG and return to work examinations. Each site's medical practices and procedures were observed. The M.D.'s, employee examination(s) and their medical records were also reviewed for content and completeness. Exit interviews were conducted just before leaving.

CORPORATE FIRE PROTECTION ACCOMPLISHMENTS

Loss Analysis Evaluations

Thirteen (13) loss prevention visits were made to ten facilities. Of these, 62% were conducted in response to plant, division, or Industrial Risk Insurers (IRI) inquiries; and the balance were made to evaluate current practices or to resolve fire protection problems. A Resources Protection Manual (RPM) section on the recently issued OSHA Subpart (L) Fire Protection Regulations was prepared to provide compliance guidelines for PPG facilities.

Training

Three PPG Industrial Fire Schools, hosted by the Flat Glass Division's Ford City Plant, were conducted at Armstrong County Fire Training Grounds for 100 students from 30 facilities. These schools provided "hands-on" fire suppression training which resulted in PPG's maintaining a high level of manual emergency response capabilities.

A Fire Protection Laboratory class for PPG personnel was co-sponsored with PPG's Property Insurance Carrier. The class, held in Hartford, afforded members of PPG's Property Protection Team from across the Corporation, an opportunity to jointly learn the design, selection, and maintenance principles of fire protection equipment applicable to their individual locations.

The Traveling Fire School was presented at the Automotive and Aircraft Division's Huntsville facility and at the Industrial Chemical Division's Natrium plant for approximately 200 employees and members of their Fire Brigades. This program provides fire suppression training tailored to the local facility's specialized needs and "fine tunes" the emergency response capabilities of the facility.

PPG's first Advanced Fire School was presented to 19 Fire Brigade and E-Squad supervisors. Leadership principals, pre-planning procedures, size-up criteria, and decision making concepts were discussed in the classroom and then applied, by each individual, in the field to "controlled" emergencies. This leadership training equipped the student with a working knowledge of emergency response strategies and tactics; and the expertise to apply that knowledge towards reducing losses by effectively controlling actual plant emergencies.

Loss Prevention Programs

A loss analysis seminar was co-sponsored with the Insurance Department for the Glass Divisions. The program reviewed for both Divisions' Operating Management, application of Fire-Protection/Loss-Control principals

applicable to the Divisions; and in addition, reviewed an actual loss experience at a Glass plant.

Coordination

IRI Inspection recommendation reviews were conducted regularly with the IRI Account Engineer to clarify discrepancies in recommendations and negotiate alternate proposals. IRI reviews of fire protection requirements for physical asset additions were conducted with the Glass, Chemicals, Coatings & Resins, and Fiber Glass Engineering Departments, to aid in their development of ACTs and their subsequent adoption of appropriate fire protection equipment and systems. These negotiations over the last year have reduced our potential capital expenditures by approximately \$1,113,000.00.

CORPORATE SECURITY ACCOMPLISHMENTS

Program Development

Considerable planning, discussion, revision and oversight of security and related matters involving PPG Place was accomplished.

Assistance was provided in developing the security section of the C&R Distribution Managers Manual and the enhancement of C&R security programs division-wide.

Assistance was given to the Law Department and C&R Division on development of guidelines and programs for protection of resin formula information.

Recommendations were made to improve protection systems for precious metals in the Fiber Glass Division.

The Drug Awareness Program given to supervisors at the Lexington Plant commenced to pay dividends.

Training

A security seminar was given to Contract and Supply ARG managers. The bomb and arson training program was presented at three Corporate Fire Schools conducted during the year. Individual security training was extended to several Plant and Research Managers of Safety and Loss Prevention.

Special Assignments and Field Evaluations

At Management's request, a considerable number of investigations were conducted involving: bomb and harassment threats; thefts, both internal and external; misappropriation of scrap sales payments; missing raw material; field purchasing irregularities; missing inventories; iron worker problem at Phoenix C&S Branch; break-ins involving C&R Paint Centers, C&S Operations and one plant. A joint investigation requested by Westinghouse was conducted involving suspected collusion between employees of both corporations which determined conclusively no PPG employees were involved. A number of security reviews involving manufacturing plants in the U.S. and

Canada, a C&S Fabrication Center, a Corporate Truck Depot and the Butler Mine were accomplished.

Coordination

Counsel and assistance was provided to Division and Staff group security efforts. A number of precious metal and tin movements were coordinated with Corporate Supply, Finance, PPG Trucking personnel and accomplished without incident or loss. A joint cooperative effort with USS, Alcoa, and Westinghouse involving theft of platinum crucibles from labs was conducted resulting in improved protection measures being instituted. Assistance and involvement with the Corporate Internal Auditing Department was provided as required on certain matters. A further measure of control involving radio RF frequencies was achieved with the Law and Supply Departments as well as special considerations on purchases of security equipment items and services. Cooperation and assistance was extended on a continuing basis to federal/local law enforcement agencies and the private security sector. Requests for counsel on access control received from Mellon Bank, Alcoa, Bell Telephone, and Shatterproof Corporation in South Africa were satisfied.

Reporting

Management was kept informed of matters affecting corporate and field security. Intelligence on political and terrorist activities around the world is provided on a regular basis including foreign travel considerations and status.

CORPORATE FLEET SAFETY ACCOMPLISHMENTS

Program Development

As in previous years, Company truck fleets not participating in the National Safety Council's National Fleet Safety Contest, were encouraged to enter. As a result, 15 additional fleets were entered, bringing the total fleets participating to 39. Of those 39 fleets, 14 completed the year without an accident of any kind. Of the 24 fleets participating in 1980, 7 showed improvement in their Accident Frequency Rates for 1981. The one showing the greatest improvement among the small fleets was the North Little Rock, AR C&S Branch. Although their mileage increased by 13%, their AFR declined from 14.2 in 1980 to 0.0 in 1981. The Corporate Truck Fleet AFR also declined for the third consecutive year, from 2.21 to 1.84. This was accomplished despite an increase of over 207,000 miles.

Training

The National Safety Council's Defensive Driving Course was presented to the Manager and Sales people at the Chemical Divisions' Sales Office in Charlotte, North Carolina. Presentation of the same course by The Hartford Insurance Group instructors was also arranged for the Chemical Divisions' Sales Office in Chicago, Illinois. The course was presented at the request of those offices to train new employees and retrain older ones in accident avoidance techniques.

A training program on Fleet Safety and the DOT Motor Carrier Safety Regulations was presented to the Western Area C&S Branch and Fabrication Managers.

A briefing on the Motor Carrier Safety Regulations applicable to drivers of lightweight vehicles was also held for employees of the Melting & Forming Laboratory at Creighton, PA.

Evaluations

Fleet Safety Surveys and OSHA/DOT Compliance Reviews were performed at 25 locations to assist management in improving their Fleet Safety Program and, if applicable, maintaining compliance with the Federal Motor Carrier Safety & Hazardous Materials Regulations.

In-depth Fleet Safety Evaluations were conducted at the C&R plant at Torrance, California, the Automotive & Aircraft Glass plant at Tipton, PA and the C&S Branch at Denver, Colorado to assist management in 1) assessing the strengths and weaknesses of their existing Fleet Safety Program, 2) recommending measures aimed at controlling injuries and losses resulting from motor vehicle accidents, and 3) providing the forms and records required by law.

All motor vehicle accidents involving Company-owned or leased vehicles operated by the Glass Divisions, Chemical Divisions, and Coatings & Resins Division, were reviewed by the Accident Review Boards in those divisions and classified as to Preventability. The purpose of this review is to assist employees in learning the principles of Defensive Driving and to alert management to any problem drivers so that appropriate corrective action can be taken before an employee is involved in a serious accident.

Reporting

Motor Vehicle Accident Summaries and Loss Analysis covering the first nine months of 1981 were prepared and distributed to Trade Paint Sales, C&R Division and Chemical Sales, Industrial and A&P Chemical Divisions. Where the analysis showed upward trends or unusually large losses, recommendations for reducing those losses were also included.

Investigations

An investigation was conducted of an accident involving a C&S Department truck in which an employee suffered near-fatal disabling injuries.

GLASS DIVISIONS ACCOMPLISHMENTS

Safety

The SSHTP program is 90% completed in the Glass plants.

Glass Division Safety Directors were utilized to conduct ten safety inspections of CCG construction sites throughout the U.S. The division safety staff conducted 12 inspections of C&S construction sites.

Monthly safety meeting topics were prepared and distributed to all units in the Glass Divisions.

Five plants were audited jointly by the Corporate and Division safety staffs. In addition, five plants completed a self-audit program conducted by the divisional staff.

Safety meetings for production workers were conducted by the division staff at five CCG construction sites.

Basic accident prevention workshops were conducted for first line supervisors at three C&S locations.

A monthly statistical report was prepared and distributed to Glass management within five working days.

Health

The formal physical exam program for the primary plant employees potentially exposed to silica and asbestos was implemented fully during 1981. All the primary plants were visited, the exams completed, reports received, reviewed and follow-up procedures were implemented.

Noise control measures implemented at one tempering facility resulted in a significant noise reduction. This measure consisted of utilizing an acoustic wall enclosing the tempering process. Similar noise controls have been recommended for other tempering facilities in the Glass Divisions.

A health auditing procedure was developed. The audit was tried at an automotive and a primary glass plant. This audit consists of programs review to ensure compliance with appropriate government and PPG programs as well as internally initiated programs. The initial trials were conducted in one-day sessions and critiques were held to assess the field unit input to this tool.

The utility of the industrial hygiene laboratory increased by the addition of new methods, equipment and computerization. Vapor sampling methods, formaldehyde sampling, acid mist techniques and the organic vapor monitors field tests are some of the new areas being successfully implemented at this facility.

The lead control program at one plant has been successfully implemented. Engineering controls, sampling and biologic samples have been performed to maintain control over this toxic material.

CHEMICAL DIVISIONS ACCOMPLISHMENTS

Safety

A monthly report giving the current safety performance, the 1981 safety performance goals and the current 12-month safety performance was developed and distributed to Industrial Chemicals and Agricultural & Performance Chemicals top management.

A Chemical Divisions safety conference was held during May for two days in conjunction with a one-day Corporate safety directors meeting.

As part of the Employee Relations Business Area Review a presentation in the status of the Chemicals Safety & Loss Prevention programs was presented to Chemicals top management.

A two-day Employee Relations Audit was conducted at the Lake Charles plant.

During the year safety audits were conducted with the emphasis on the adherence to safe work procedures and safe operating procedures.

In the Industrial Chemical Division, there were three management safety reviews held by ICD management. The Lake Charles plant participated in two of the reviews, one in May in Pittsburgh and one in November at Lake Charles. The Barborton plant participated in one review at the plant in December.

Training

Recommendations and guidelines were sent to the plants on the requirements for personnel training and implementation on responding to emergencies and operator training as required by the Resource Conservation and Recovery Act (RCRA) to assist the plant in developing training programs to comply with this Act.

A letter was sent to Chemicals top management informing them of the need to upgrade the training of the "E" Squads at our facilities.

The Seventh Annual Chemicals Fire School was held at the Texas A&M Fire Training Grounds with 51 participants from the following locations:

Barborton	Natrium
Beaumont	Toronto Distribution Center
Chicago SPU	Woodward
Corpus Christi	
Lake Charles	East Point C&R
LaPorte SPU	Houston C&R

During 1981 the Chemical Divisions continued their policy of hiring people with the proper safety training and background for plant safety departments and filled vacant positions in the various plant safety departments by hiring one employee with an MS in Safety and Industrial Hygiene and three employees with a BS in the discipline of Safety. A safety coordinator was promoted to Chief, Plant Protection at the Barborton plant.

The Barborton and Lake Charles plants have implemented the Corporate Supervisors Safety & Health Training Program, and the Natrium plant gave the program to all new supervisors and engineers.

Health

A TSCA 8(e) response to new toxic information involving diallyl carbonate from the CR-39 toppings stream was developed by the Chemical Divisions and

the Law Department and sent to EPA. A letter was developed and sent to the plant to be utilized in notifying our employees.

A request from the Union officials at the Lake Charles plant for biological and personal monitoring data was received, and after consideration and further clarification, all biological and personal monitoring results that were readily available were given to the Union officials.

A Chemicals Health and Toxicology Conference was held in Pittsburgh October 20-22, 1981.

On November 28, 1981, a storage tank at the Beaumont plant containing "rework" mixed alkyl fluid split along a horizontal and vertical weld dumping a large amount of MAF inside and outside the diked area surrounding the tank. There was no fire or explosion, however, the clean-up presented a very serious health hazard. The plant utilized protective equipment and stringent work practices to reduce exposure to the employees doing the clean-up procedure. There were no excessive exposures to employees during the clean-up operation.

Loss Prevention

On January 12, 1981, a fire occurred in the primary condenser of the No. 4 Per-Tri Unit at Lake Charles. The fire was contained and surrounding equipment and structures cooled until the fuel was shut off and the fire extinguished. There were no disabling injuries involved with the fire. The property damage was about \$1,000,000 and the business loss was minimal.

A Hotel/Motel Fire Safety Guidelines that could be carried in a pocket secretary was developed and sent to management and to all locations.

On June 26, 1981, a fire occurred in the Hydrogen Peroxide Unit at the Barborton plant. There were no injuries, however, the toluene scrubber and three process vessels, as well as, other auxiliary equipment were destroyed. The property damage was approximately \$1,000,000 and the business interruption was \$400,000.

On August 9, 1981, the Kalium plant experienced a fire in the new FRP scrubber that was being installed. There were no injuries or business interruption losses, and the property damage was about \$500,000.

On September 17, 1981, the Beauharnois plant experienced an explosion in the Sodium Chlorate Expansion. There were no injuries, and the property damage was estimated to be about \$250,000.

Awards

In addition to the Corporate awards, the following safety awards were presented in the Chemical Divisions.

A Special Recognition Safety Award was presented to the Asahi-Penn Chemical Company, LTD, China, plant by Mr. Burrell during his visit in April for completing 3,000 consecutive calendar days without a disabling injury. This operation is a joint venture of PPG and Asahi-Penn.

During the month of January, the Barberton Technical Center completed 10,000,000 exposure hours without a disabling injury. A special plaque was presented to the Barberton Technical Center employees by Mr. Burrell.

The Winnipeg Distribution Center received the STANCHEM Certificate of Honor for completing the 1981 calendar year without a disabling injury.

COATINGS AND RESINS DIVISION ACCOMPLISHMENTS

Safety

The Back School Training Program continued to expand in 1982 with the development of a three-part training program designed specifically for Trade Sales. In addition, implementation of the Back School Training Program in C&R Manufacturing and R&D facilities continued during 1981.

The Distribution/Warehouse Safety and Environmental Affairs Manual was distributed during the final quarter of 1981. The manual establishes minimum safety standards for C&R Distribution/Warehouse facilities, and incorporates a formalized annual facility inspection procedure.

Three revisions to the Paint Center Safety and Environmental Affairs Manual were distributed during 1981. Major changes included the addition of a safety equipment purchasing program, the establishment of procedures for the disposition of hazardous waste, and revised procedures for transporting hazardous materials.

Thirty-eight paint center locations and four distribution centers were inspected by plant safety personnel. Recommendations generated by these inspections were forwarded to appropriate members of management for corrective action.

The Resin Training Program was upgraded in C&R Resin Manufacturing locations during 1981. The program utilizes a combination of classroom instruction, individual programmed instruction, and in-plant observation to enhance reactor operator's technical and theoretical knowledge of the resin manufacturing process, improve the individual's operating skills, and to increase safety awareness.

The 1981 C&R Division Safety Conference was held in conjunction with the Corporate Safety Conference during May. Participants from U.S., French, and Canadian operations were in attendance. Safety and Industrial Hygiene concerns affecting the safety professional were highlighted.

Divisional training to meet future personnel needs continued with the addition of a Safety Assistant in June. In addition, a Safety Engineer was assigned to the Oak Creek Plant in June. Another Divisional Safety Assistant was promoted to Safety Coordinator, Houston Plant. Two Safety Engineers previously assigned to the Oak Creek Plant were promoted. One is now Manager, Safety and Loss Prevention, Torrance; the other is now Manager, Safety and Loss Prevention, Delaware.

Health

The Coatings and Resins Division Industrial Hygiene Department continued to aggressively pursue its goal of maintaining a healthy work environment at all C&R facilities through the implementation of new programs and the improvement of existing programs in the following areas: Management/Employee Awareness, Plant Surveillance, Regulatory Compliance, Engineering Design, and Medical Programming.

C&R Plant Evaluation/Surveillance

Comprehensive Industrial Hygiene Surveys were conducted at 7 major C&R locations. Routine monitoring of the in-plant work environment at all facilities, which included some 13,000 hydrocarbon vapor exposure determinations and 800 dust exposure results, continued to indicate that the work environment at C&R facilities is well controlled.

Management and Employee Awareness

Management awareness of potential hazards associated with divisional raw materials and products was enhanced through extensive toxicological testing and the issuance of Industrial Hygiene Alerts. Employee awareness of safe working practices was increased through additional classification of over 700 materials into the C&R Safety and Health Labeling System and the development of specialized training programs.

I.H. Laboratory Services

I.H. Lab capabilities were expanded substantially through the addition of a liquid chromatograph, G-C Mass Spectrometer, and the development of additional sampling and analytical methods of special analyses.

Regulatory Compliance

Administration and surveillance of acrylonitrile and lead compliance programs continued. Quantitative respirator fit testing services were provided to affected C&R Plants to comply with these standards, while a qualitative/semi-quantitative respirator fit test protocol was developed to satisfy the requirements of the OSHA Respiratory Protection Standard at all locations. A program was developed for compliance with OSHA Noise Standard Amendment Hearing Conservation Program requirements.

Engineering

To assure proper consideration of employee health, technical input and design assistance were provided for over 20 C&R capital projects.

Medical Program

A week long conference for C&R Plant physicians and nurses was held to update divisional medical programming. A comprehensive revised medical monitoring program was developed and introduced for implementation division-wide during 1982.

FIBER GLASS DIVISION ACCOMPLISHMENTS

Safety

The Division recorded a total of 6,116,033 hours of exposure with only one Away-From-Work case. On November 21, 1981, the existing manufacturing section record held by Cumberland plant was broken by the Lexington plant. As of December 31, 1981, the Lexington plant had worked a total of 8,753,919 exposure hours without an Away-From-Work case.

The NSC Incidence Rate goal of 0.13 was obtained by ending the year with an Incidence Rate of 0.03. The incidence Rate Average for the past three years (1978-1980) is 0.16.

The Lexington plant earned the North Carolina Governor's Safety Award for 7,000,000 exposure hours without an Away-From-Work case. The North Carolina Department of Labor Outstanding Safety Achievement Award was earned by the Lexington plant for the eleventh consecutive year and by the Shelby plant for the eighth consecutive year.

The Supervisors Safety and Health Training Program (SSHTP) has continued at all three locations this year. The Lexington plant had 180 participants and the Research Center had 7 participants to complete the 15 module program. The Shelby plant has 180 participants and the Research Center has 8 participants about midway through the training program.

The Emergency Medical Technician (EMT) certification which strengthens our in-plant capability to stabilize an injured employee prior to transport to the hospital has been actively pursued. The Shelby plant completed the recertification of 26 employees. A seminar was conducted for all the EMT's at the Research Center covering subjects such as; triage management, management of Natural Disaster Victims, EMT role in the Disaster Plan for the location, etc. This training will benefit PPG by developing a good safety awareness attitude for on-the-job activities. This training can also be carried into the home to develop good safety attitudes in the members of their families. The "Family Safety" magazine has been provided in the homes of the employees and their families as a positive reinforcement of a good safety attitude by the Shelby and Lexington plants.

The Sixth Annual Blood Donor day was conducted at the Research Center with 40 employees donating blood. The Research Center provides on-site facilities for the Central Blood Bank of Allegheny County.

A Criminal Liability presentation was presented at the Shelby and Lexington plants. The presentation reviewed the requirements of governmental regulations and their effect on the local plant in the safety, health and environmental areas.

The film entitled "28 Grams of Prevention - General Laboratory Safety" was shown to 103 employees of the Research Center. The general safety procedures in the department reviewing the film with emphasis given to the special safety measures need in their work areas.

Health

The Lexington Noise Abatement Committee was established with the Division Industrial Hygienist as the committee chairman. A Bruel and Kjaer (B&K) 2033 Realtime Analyzer was purchased to conduct indepth noise evaluations. The Division Industrial Hygienist and the Shelby and Lexington Safety and Health personnel have received training at the B&K training center for the Realtime Analyzer.

The Lexington plant recieved a North Carolina OSHA inspector who conducted an Industrial Hygiene inspection on November 16-18, 1981. During the closing meeting, the inspector informed the plant management he was not recommending any citation be given as the result of his inspection to his Area Supervisor.

The Research Center has initiated the C&R Division Labelling system with guidance from the Division Industrial Hygienist. The system will be moved to the Shelby and Lexington plants as soon as the Research Center is fully utilizing the system.

The Division has organized a Toxic Substance Control Act (TSCA) Review Committee under the chairmanship of the Division Industrial Hygienist. This committee will review the development of new products for compliance with the EPA, OSHA, and Product Safety regulations.

Medical

Special instructions and a training program has been provided to the employees in the Division exposed to Hydroflouric Acid (HF) burns with the assistance of the Corporate Medical Director. HF burn kits with instructions have been assembled to accompany the injured employee to the local hospital.

The Shelby plant ambulance was re-certified by the North Carolina Department of Emergency Service.

The Corporate Medical Director visited the three division locations for orientation and review of medical records.

The Fort Lauderdale plant activities were closed out in May, 1981. All the employees were given an exit physical by J. R. Serrano, M.D.

Fire Protection

The Annual Industrial Risk Insurers (IRI) review was conducted in April with each location presenting their location's program to comply with the recommendations made by the local IRI Personnel. Color slides were used by each facility to show the causal and the corrective measures applied to the IRI recommendations. The Research Center and Shelby had no outstanding recommendations at the end of the year.

Six employees from the Shelby plant and two employees from the Research Center attended the PPG Fire School. Thirty supervisors and Fire Brigade members from the Shelby Plant attended the Advanced Fire Training program

at Rock Hill, South Carolina. Sixteen members of the Shelby plant Fire Brigade participated in the Cleveland County Fire Training program.

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PART III - STATISTICAL REVIEW WITH CHARTS

DEFINITION OF TERMS

1. AW, Away-From-Work Case - Is any injury or occupational disease which results in death, permanent impairment, or which renders the injured person unable to work for a full day on any job on any regularly scheduled work day after the injury.
2. Disabling Injury - Same as an Away-From-Work Case.
3. AWDL, Away-From-Work Days Lost - Is all the days which an employee is scheduled to work but could not perform any job due to the occupational injury or illness.
4. Fatality - Is any occupational injury or illness resulting in death regardless of time between the injury or length of illness and the subsequent death.
5. First Aid Case - One time treatment and subsequent observation of minor scratches, cuts, burns, splinters which do not ordinarily require medical care even though the treatment was provided by a physician or registered professional personnel.
6. Lost Work Days - Those days which the employee would have worked but could not because of occupational injury or illness. The number of lost work days does not include the day of injury, but does include all days (consecutive or not) on which, because of injury or illness; a) the employee would have worked but could not; or b) the employee was assigned to do a temporary job; or c) the employee worked at a permanent job less than full time; or d) the employee worked on a permanently assigned job but could not perform all duties normally assigned to it.
7. Doctor or Medical Treatment Case - Medical Treatment includes treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment.
8. NF, Non-Fatal Case - Are cases of occupational injury or illness which do not involve fatalities or lost work days but did result in: a) transfer to another job or termination of employment; or b) medical treatment other than first aid; or c) diagnosis of occupational illness; or d) loss of consciousness; or e) restriction of work or motion.
9. RC, Recordable Case - Is any occupational injury or disease which results in a Fatality, Lost Work Day Case, or Non-Fatal Case Without Lost Work Days.
10. TDL, Total Days Lost - Total number of Lost Work Days.
11. LW, Lost Work Case - Is any injury or occupational disease which renders an employee unable to perform his regularly scheduled job. A lost work case can be an AW or an RA. The total of all AW's and RA's equals the total LW's. (AW's + RA's = LW's)

12. RA, Restricted Activity Case - Is any injury or occupational disease which renders an employee unable to perform all duties of his regularly scheduled job or was assigned to do a temporary job on any regularly scheduled day after the injury or illness.

FORMULAS

1. (AW) AWAY-FROM-WORK INCIDENCE RATE

This rate reflects the number of disabling injuries experienced per 100 full time employees working a full year (2,000 manhours each).

$$(AW) \text{ Incidence Rate} = \frac{\text{Total Number of Disabling Injuries} \times 200,000}{\text{Manhours Worked}}$$

2. (AWDL) AWAY-FROM WORK DAYS LOST INCIDENCE RATE

This rate reflects the number of days lost due to injuries requiring time away from work per 100 full time employees working a full year (2,000 manhours each).

$$(AWDL) \text{ Incidence Rate} = \frac{\text{Total Number of AW Days Lost} \times 200,000}{\text{Manhours Worked}}$$

3. (LW) LOST WORKDAY INCIDENCE RATE

This rate reflects the number of lost workday cases per 100 full time employees working a full year (2,000 manhours each).

$$(LW) \text{ Incidence Rate} = \frac{\text{Total Number Lost Workday Cases} \times 200,000}{\text{Manhours Worked}}$$

4. (NF) NON FATAL WITHOUT LOST WORKDAY INCIDENCE RATE

This rate reflects the number of Nonfatal Without Lost Workday cases per 100 full-time employees working a full year (2,000 manhours each).

$$(NF) \text{ Incidence Rate} = \frac{\text{Total Number of Nonfatal Without Lost Workday Cases} \times 200,000}{\text{Manhours Worked}}$$

5. (NSC) NATIONAL SAFETY COUNCIL INCIDENCE RATE

This rate reflects the number of disabling injuries plus fatalities experienced per 100 full time employees working a full year (2,000 manhours each).

$$(NSC) \text{ Incidence Rate} = \frac{\text{Total Number of Disabling Injuries} + \text{Plus Fatalities} \times 200,000}{\text{Manhours Worked}}$$

6. (RC) RECORDABLE CASE INCIDENCE RATE

This rate reflects the number of Recordable Cases per 100 full-time employees working a full year (2,000 manhours each)

$$(RC) \text{ Incidence Rate} = \frac{\text{Total Number of Recordable Cases} \times 200,000}{\text{Manhours Worked}}$$

7. (TDL) TOTAL DAYS LOST INCIDENCE RATE

This rate reflects the total days lost from regularly scheduled jobs due to injuries or illnesses experienced per 100 full time employees working a full year (2,000 manhours each)

(TDL) Total Days Lost = Days lost from injuries requiring time away from work plus the days lost from regularly scheduled jobs (Restricted activity cases).

$$(TDL) \text{ Incidence Rate} = \frac{\text{Total Days Lost} \times 200,000}{\text{Manhours Worked}}$$

8. TRUCK ACCIDENT FREQUENCY RATE

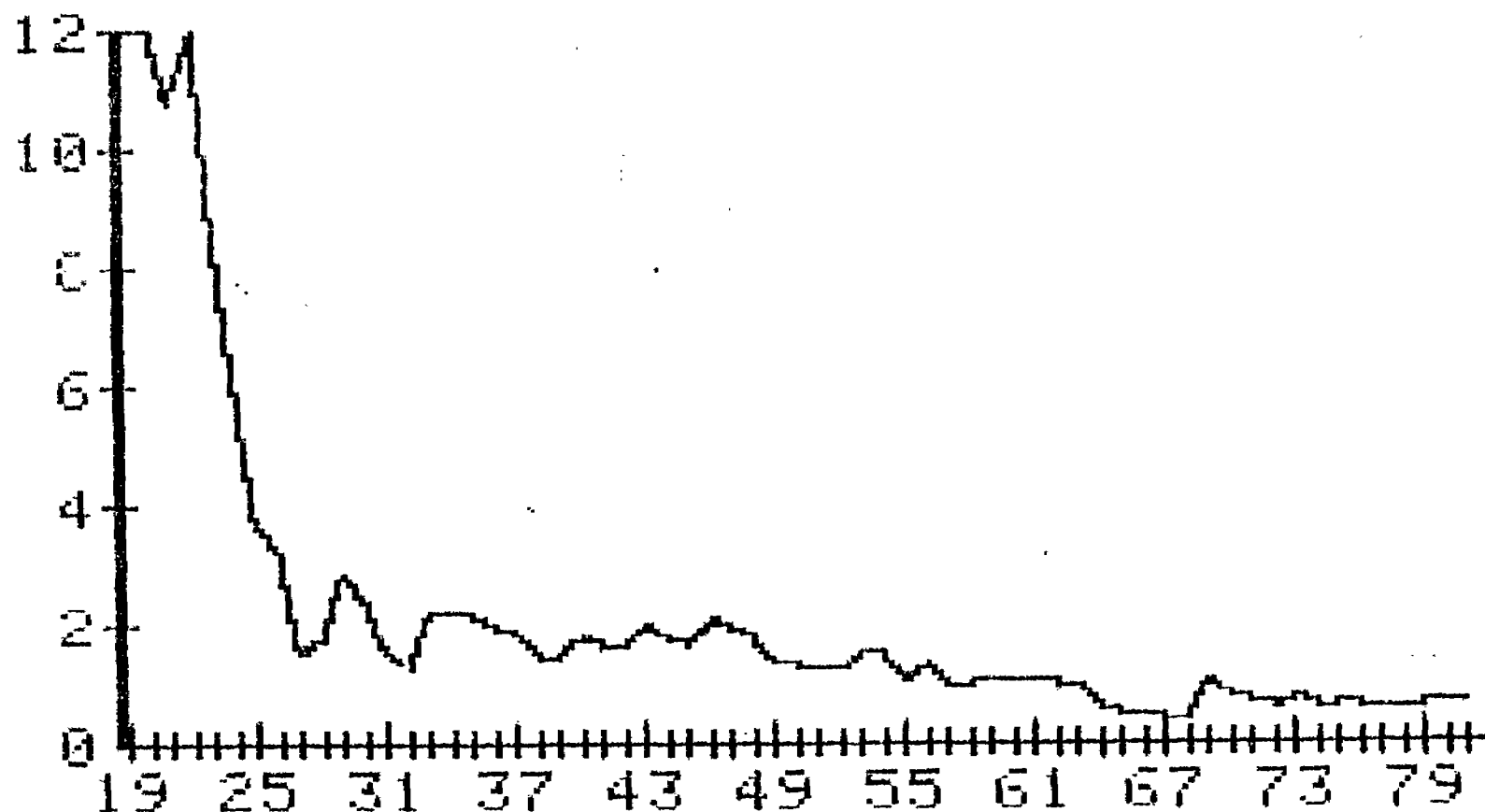
This rate reflects the number of truck accidents per 1,000,000 miles driven.

$$\text{Truck Accident Frequency Rate} = \frac{\text{Number of Truck Accidents} \times 1,000,000}{\text{Total Truck Mileage}}$$

SL 103239

TOTAL CORPORATION

PERCENTAGE



(NOTE YEARS PRIOR TO 1969 DO NOT REFLECT ALL SEGMENTS OF THE CORP.)

SL 103240

<u>YEAR</u>	<u>AW RATE</u>	<u>YEAR</u>	<u>AW RATE</u>
1919	12.00	1950	1.22
1920	12.00	1951	1.24
1921	10.80	1952	1.24
1922	12.00	1953	1.44
1923	8.80	1954	1.28
1924	5.84	1955	1.02
1925	3.70	1956	1.28
1926	3.14	1957	0.90
1927	1.52	1958	1.04
1928	1.78	1959	1.00
1929	2.80	1960	0.96
1930	2.22	1961	1.02
1931	1.52	1962	0.88
1932	1.24	1963	0.88
1933	2.20	1964	0.52
1934	2.18	1965	0.46
1935	2.04	1966	0.44
1936	1.84	1967	0.36
1937	1.74	1968	0.36
1938	1.42	1969	1.00
1939	1.50	1970	0.76
1940	1.76	1971	0.64
1941	1.60	1972	0.54
1942	1.66	1973	0.68
1943	1.96	1974	0.56
1944	1.66	1975	0.59
1945	1.62	1976	0.54
1946	2.06	1977	0.51
1947	1.90	1978	0.53
1948	1.68	1979	0.59
1949	1.30	1980	0.58
		1981	0.60

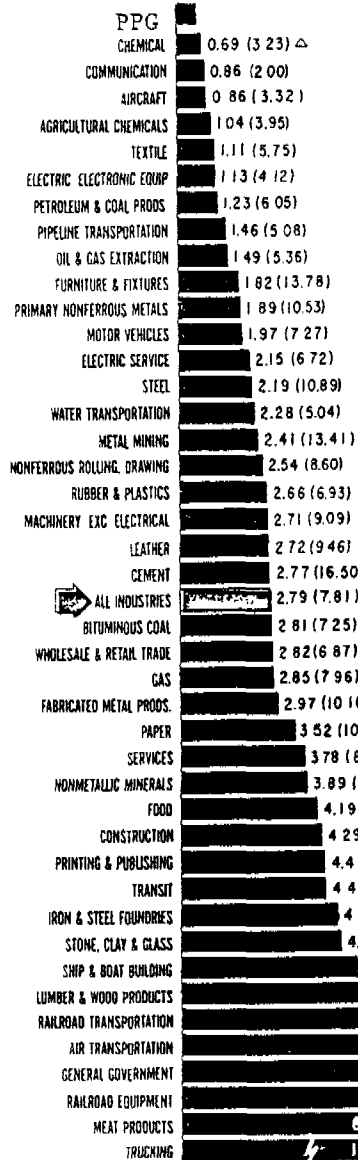
SL 103241

1980 incidence rates* of principal industries

Reporters to the National Safety Council

Incidence Rates*

CASES INVOLVING DAYS
AWAY FROM WORK & DEATHS



Data compiled in accordance with OSHA Recordkeeping definitions. See page 30.

* Incidence rates per 100 full-time employees, using 200,000 employee hours as the equivalent.

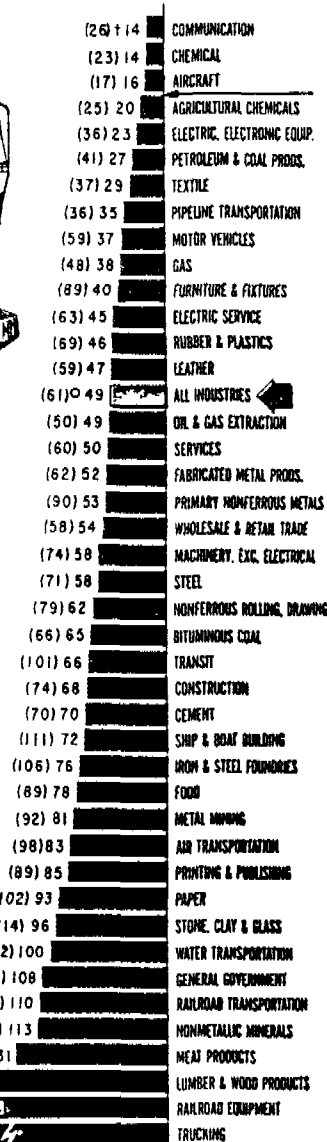
△ Rates in parentheses are for Total Recordable Cases.

† Rates in parentheses are for Total Lost Workdays.

○ See footnote on page 33 regarding comparability from year to year.

Incidence Rates*

DAYS AWAY
FROM WORK



PPC 17.4

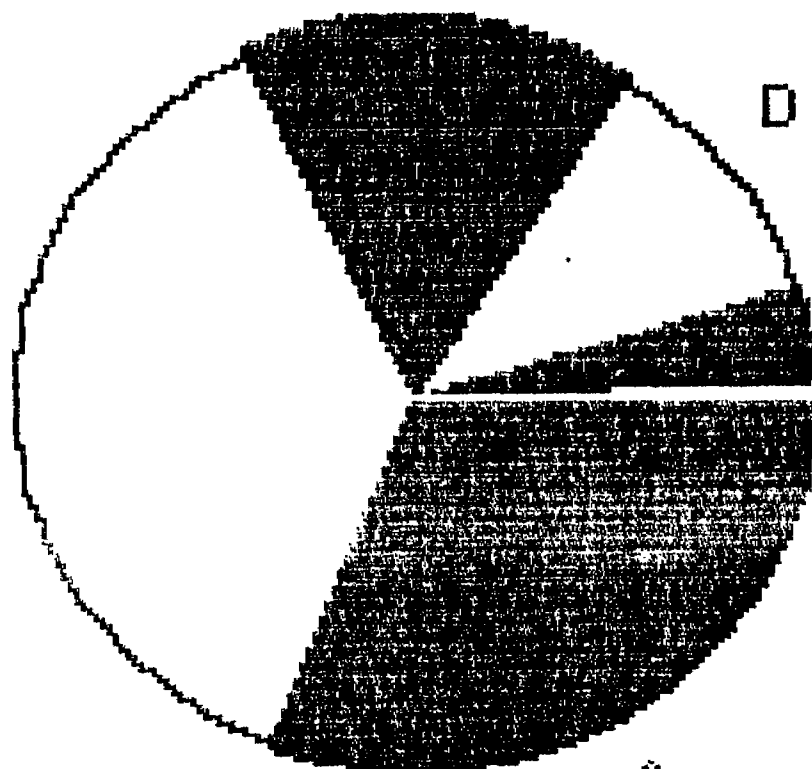
DIRECT ACCIDENT COST

C

D

B

A



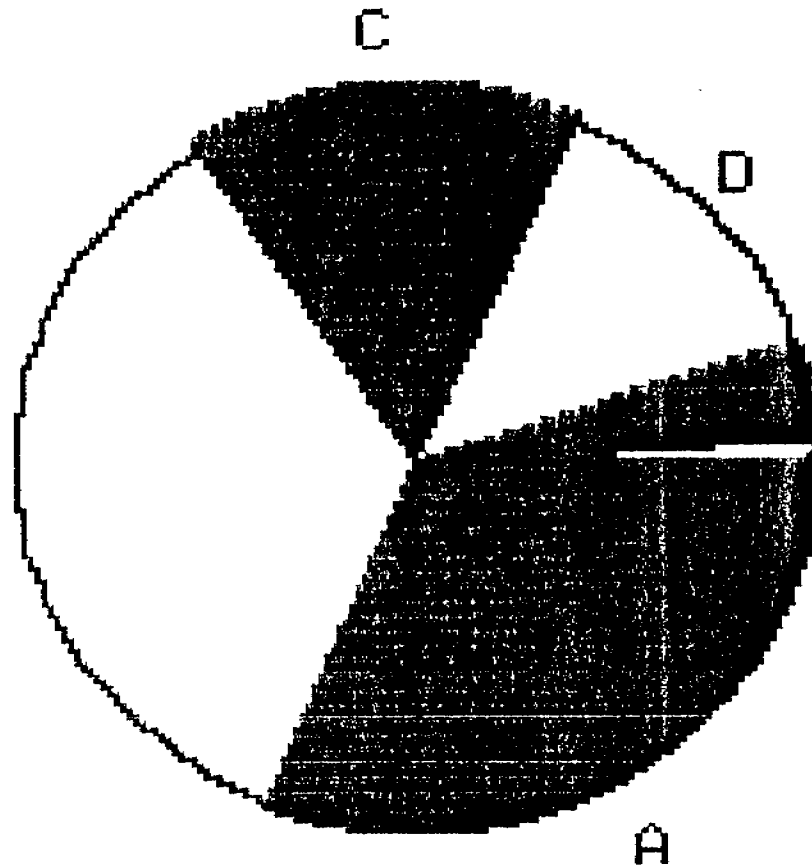
THE

A	GLASS-C&S	31%
B	C&S	37%
C	CHEMICAL	16%
D	C&R	11%
E	E/G	4%
F	G.O. & OTH	0%

81

1981
4,016,000

DIRECT ACCIDENT COST



A	GLASS-C&S	31%
B	C&S	35%
C	CHEMICAL	16%
D	OTHER	13%
E	G.O. & OTH	4%
60		

1980
3,451,000

1981 DISABLING INJURIES
CAUSE AND CLASSIFICATION SUMMARIES

PPG INDUSTRIES, INC.
1981
NSC CASES
TOTAL CORPORATION
CAUSE AND CLASSIFICATION

	<u>Number of Cases</u>		<u>% of Total</u>
<u>STRUCK BY</u>	39		23
Objects		27	
Glass		12	
<u>STRUCK AGAINST</u>	14		8
Objects		12	
Glass		2	
<u>FALLS</u>	33		19
Different Level		19	
Same Level		14	
<u>STRAINS AND SPRAINS</u>	54		31
Back		38	
Ankle		6	
Hand		3	
Shoulder		3	
Knee		2	
Neck		0	
Other		2	
<u>BURNS</u>	8		5
Thermal		3	
Chemical		5	
Electrical		0	
<u>CAUGHT BETWEEN</u>	10		6
<u>GAS INHALATION</u>	0		0
<u>VEHICLE INJURIES</u>	8		4
<u>O.D. CASES</u>	0		0
<u>HERNIA</u>	3		2
<u>OTHER</u>	2		1
<u>FATALITY</u>	<u>1</u>		<u>1</u>
	172		100%

SL 103246

PPG INDUSTRIES, INC.
1981
NSC CASES
MANUFACTURING
CAUSE AND CLASSIFICATION

	<u>Number of Cases</u>	<u>% of Total</u>
<u>STRUCK BY</u>	22	30
Objects	18	
Glass	4	
<u>STRUCK AGAINST</u>	5	7
Objects	4	
Glass	1	
<u>FALLS</u>	8	11
Different Level	3	
Same Level	5	
<u>STRAINS & SPRAINS</u>	19	26
Back	12	
Ankle	2	
Hand	0	
Shoulder	1	
Knee	2	
Neck	0	
Other	2	
<u>BURNS</u>	6	8
Thermal	3	
Chemical	3	
Electrical	0	
<u>CAUGHT BETWEEN</u>	8	11
<u>GAS INHALATION</u>	0	0
<u>VEHICLE INJURIES</u>	1	1
<u>O.D. CASES</u>	0	0
<u>HERNIA</u>	2	3
<u>OTHER</u>	2	3
<u>FATALITY</u>	<u>0</u>	<u>0</u>
	73	100

PPG INDUSTRIES, INC.
1981
NSC CASES
C&S DEPARTMENT
CAUSE AND CLASSIFICATION

	<u>Number of Cases</u>	<u>% of Total</u>
<u>STRUCK BY</u>	17	22
Objects	8	
Glass	9	
<u>STRUCK AGAINST</u>	7	9
Objects	6	
Glass	1	
<u>FALLS</u>	22	28
Different Level	18	
Same Level	4	
<u>STRAINS & SPRAINS</u>	24	31
Back	17	
Ankle	3	
Hand	2	
Shoulder	2	
Knee	0	
Neck	0	
Other	0	
<u>BURNS</u>	1	1
Thermal	0	
Chemical	1	
Electrical	0	
<u>CAUGHT BETWEEN</u>	2	3
<u>GAS INHALATION</u>	0	0
<u>VEHICLE INJURIES</u>	3	4
<u>O.D. CASES</u>	0	0
<u>HERNIA</u>	1	1
<u>OTHER</u>	0	0
<u>FATALITY</u>	<u>1</u>	<u>1</u>
	78	100%

AW (DISABLING INJURIES) EXPERIENCE CHARTS BY DIVISION

The following charts reflect the disabling injury (AW's) experience and AW days lost for the Corporation and for each division.

In 1977, the National Safety Council discontinued the old ANSI frequency and severity method of recordkeeping. PPG did also. Since the new method of OSHA incidence rate recordkeeping does not exactly correspond to the old method, only the available OSHA results from previous years are shown.

In addition, the following notations should be considered when interpreting the charts:

1. AWDL (away-from-work-days lost) rates are not available for the years 1975 and 1976.
2. NSC rates referred to in the text include deaths and may be slightly greater than the AW rates charted.

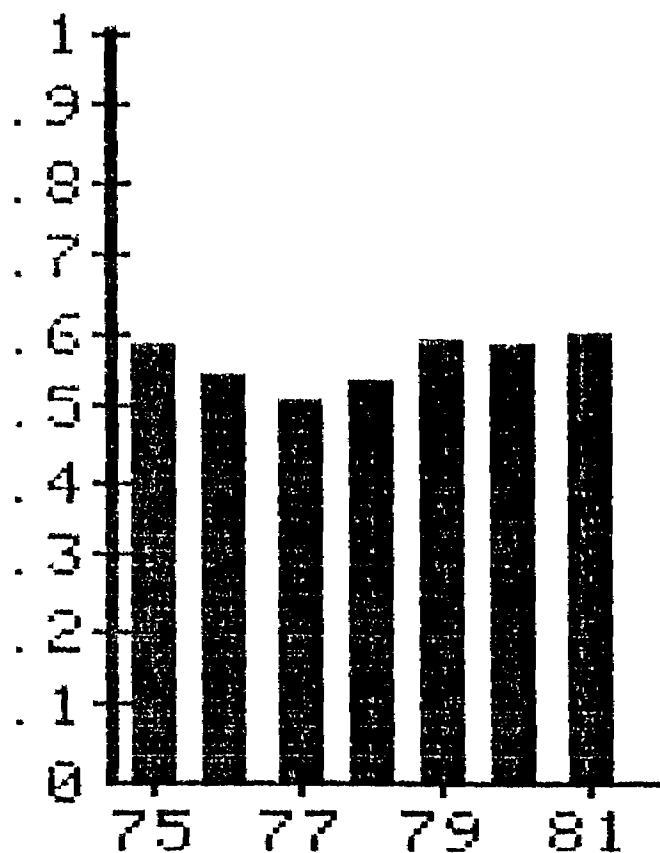
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	1981	1980	1979	1978	1977	1976	1975
Total Corporation							
AW Rate	0.60	0.58	0.59	0.53	0.51	0.54	0.58
AWDL Rate	17.4	17.5	19.2	17.1	15.6		
Corp. Manufacturing							
AW Rate	0.37	0.36	0.40	0.42	0.39	0.40	0.50
AWDL Rate	15.3	18.7	17.5	17.0	14.8		
Glass Divisions Total							
AW Rate	0.97	0.88	0.85	0.68	0.68	0.84	0.80
AWDL Rate	25.1	21.3	29.0	18.2	22.3		
Flat Glass							
AW Rate	0.44	0.29	0.47	0.52	0.39		
AWDL Rate	14.5	13.9	23.3	14.1	16.74		
A/A Glass							
AW Rate	0.52	0.32	0.35	0.28	0.41		
AWDL Rate	23.0	18.2	15.3	18.7	6.5		
C&S Department							
AW Rate	2.57	2.91	2.60	1.75	1.74	1.91	1.52
AWDL Rate	49.2	42.8	67.3	29.7	42.5		
Chemical Divisions Total							
AW Rate	0.53	0.50	0.42	0.32	0.39	0.27	0.57
AWDL Rate	10.5	31.9	16.3	14.3	15.3		
Industrial Chemical							
AW Rate	0.49						
AWDL Rate	10.1						
Agriculture & Performance							
AW Rate	0.95						
AWDL Rate	14.3						
C&R Division							
AW Rate	0.40						
AWDL Rate	17.5						
Fiber Glass Division							
AW Rate	0.03	0.12	0.13	0.21	0.28	0.10	0.20
AWDL Rate	3.9	7.8	6.4	12.8	6.7		

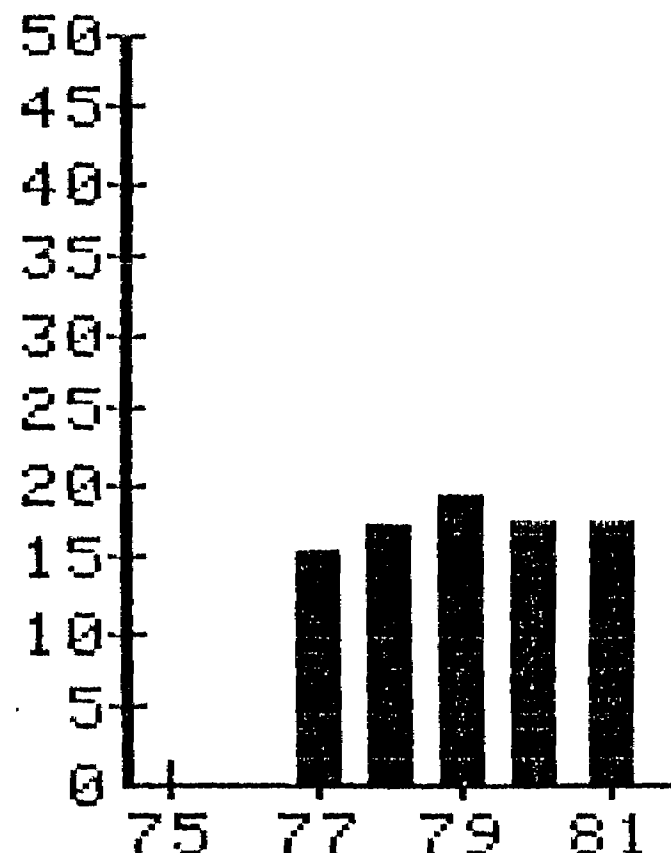
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TOTAL CORPORATION

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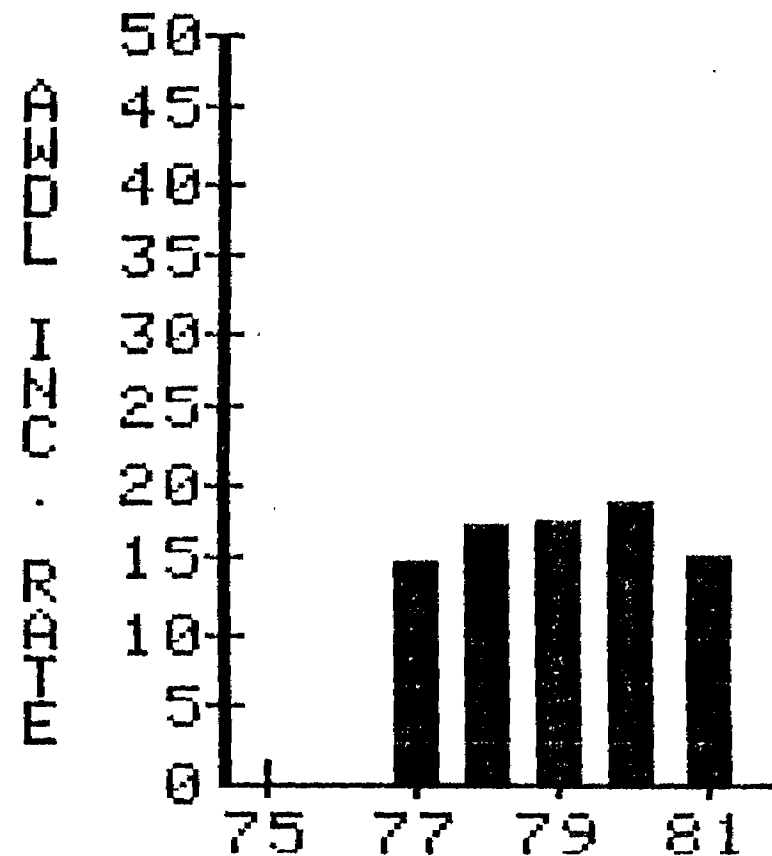
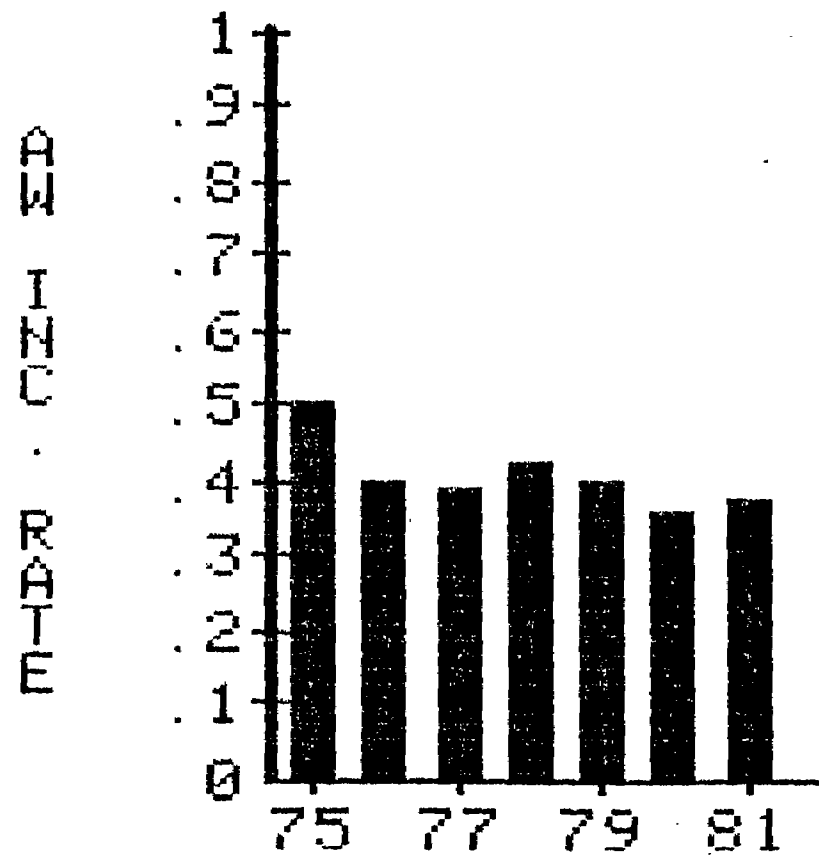


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YEAR

TOTAL CORP. MANUFACTURING

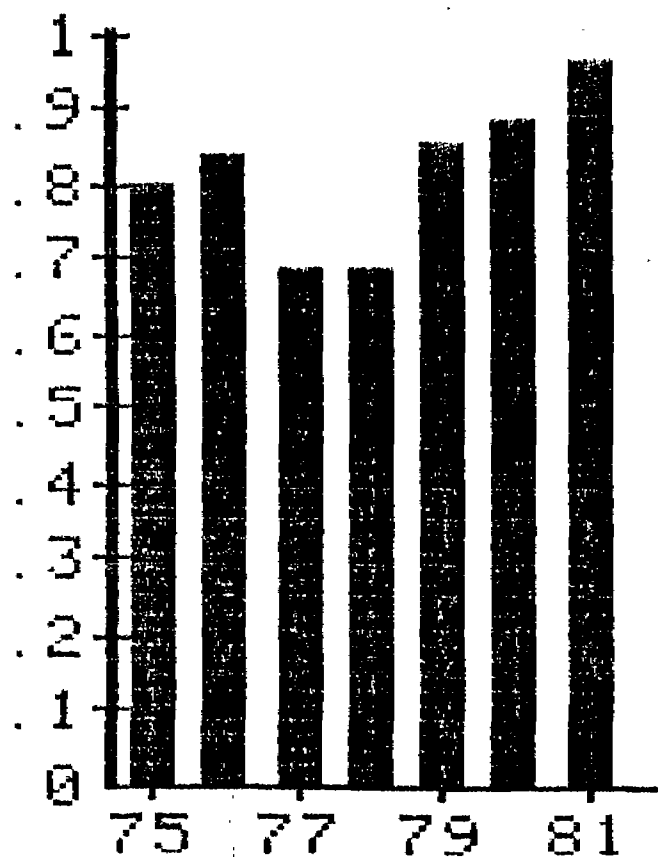


YEAR

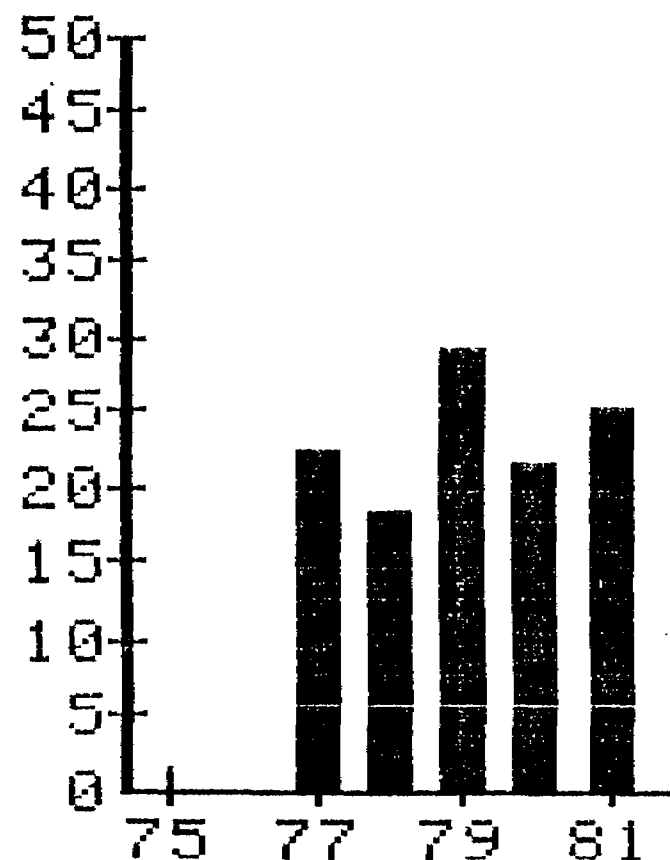
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TOTAL GLASS DIVISIONS

EDITH - DEATH

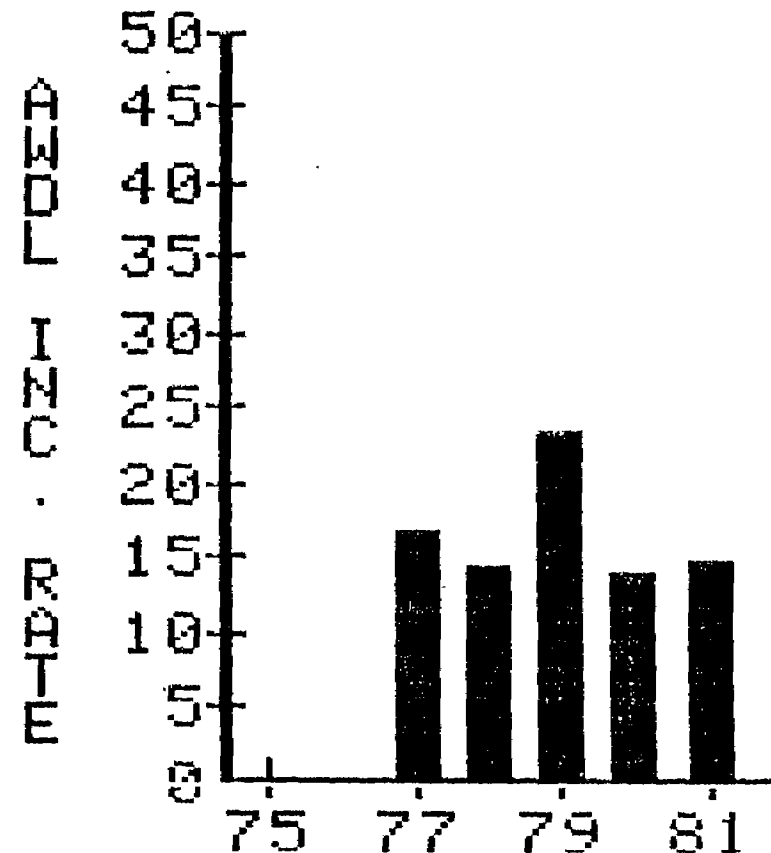
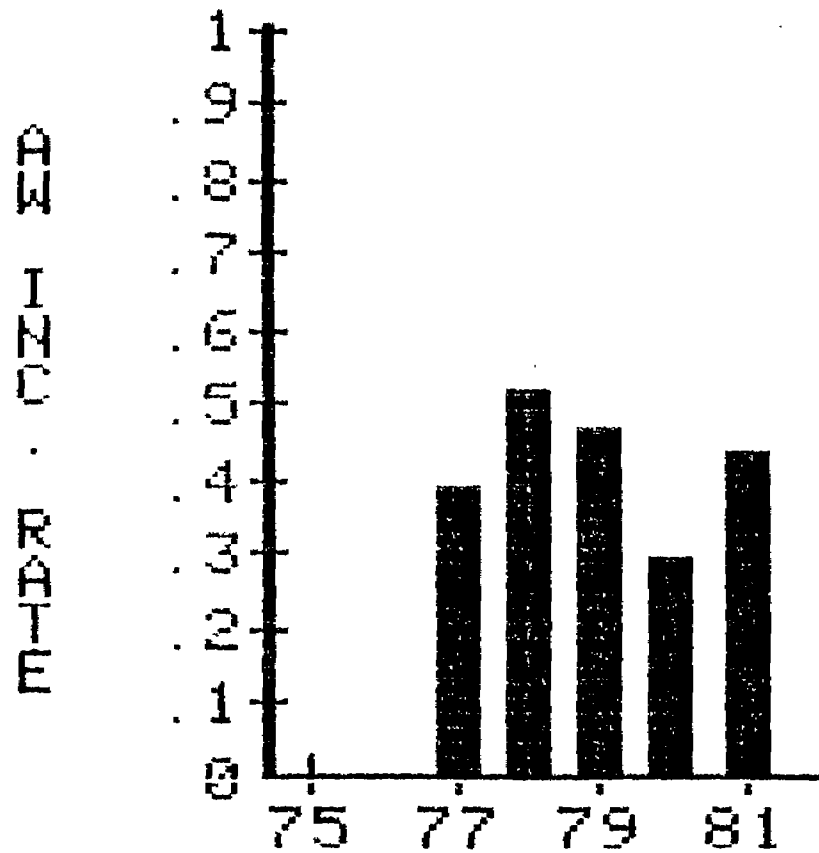


AWARD - INCENTIVE



YEAR

FLAT GLASS DIVISION

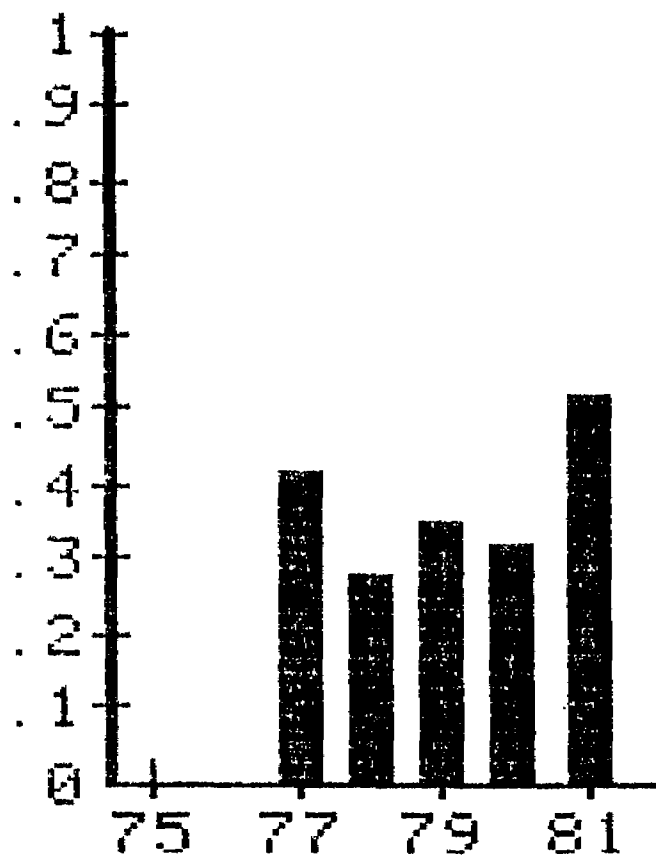


YEAR

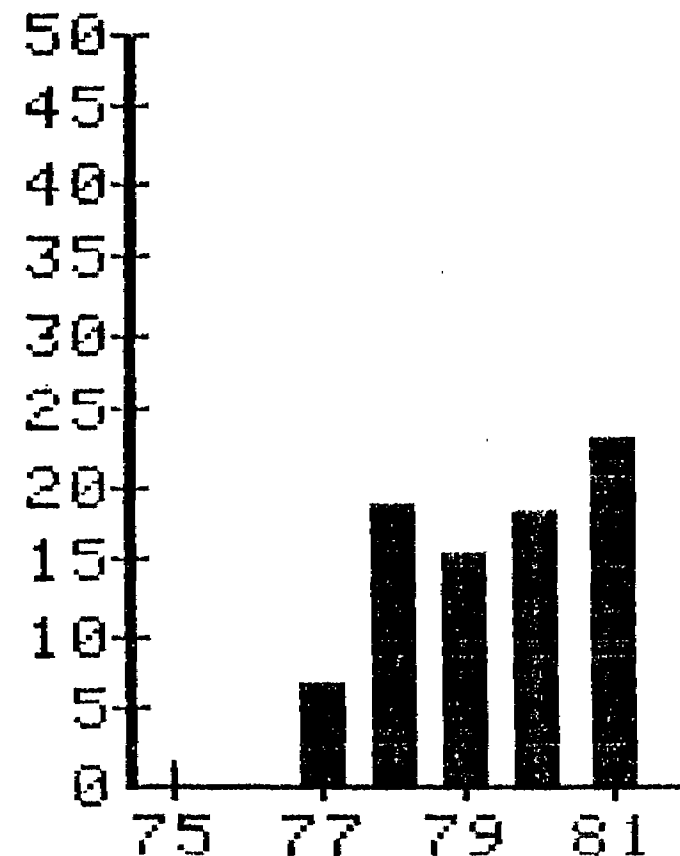
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A/A GLASS DIVISION

ED
HCU
RDE



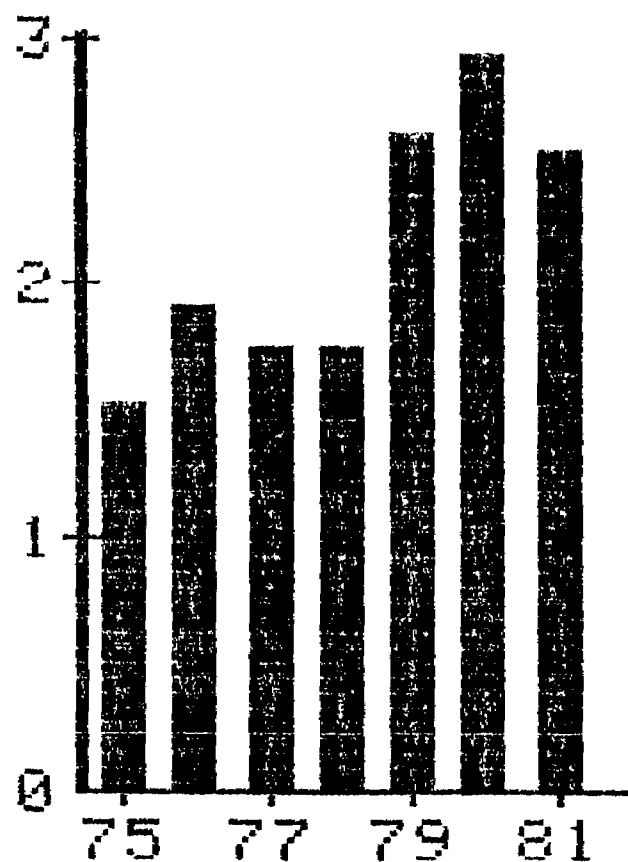
ED
HCU
RDE



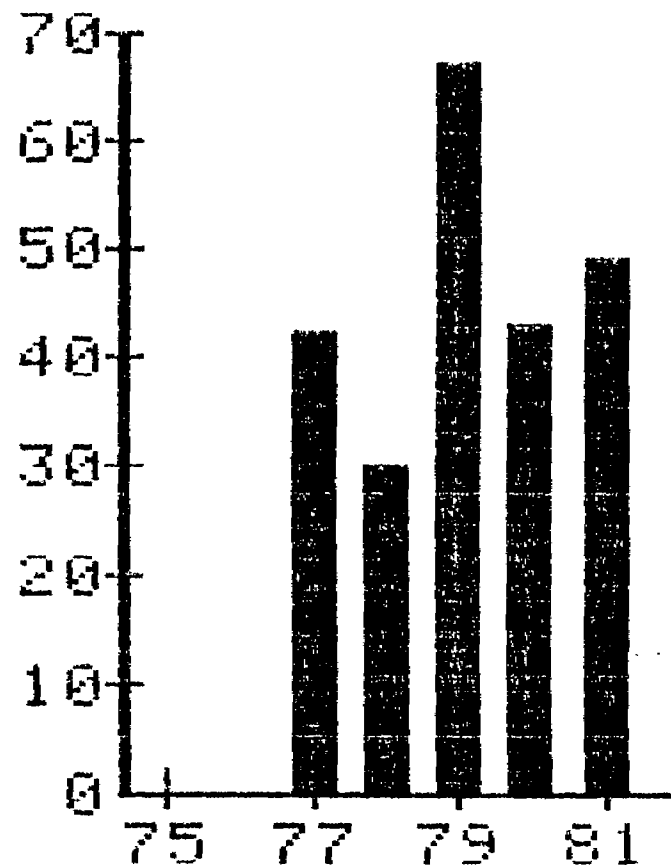
YEAR

C&S GLASS DIVISION

PERCENTAGE



ADDITIONAL RATE



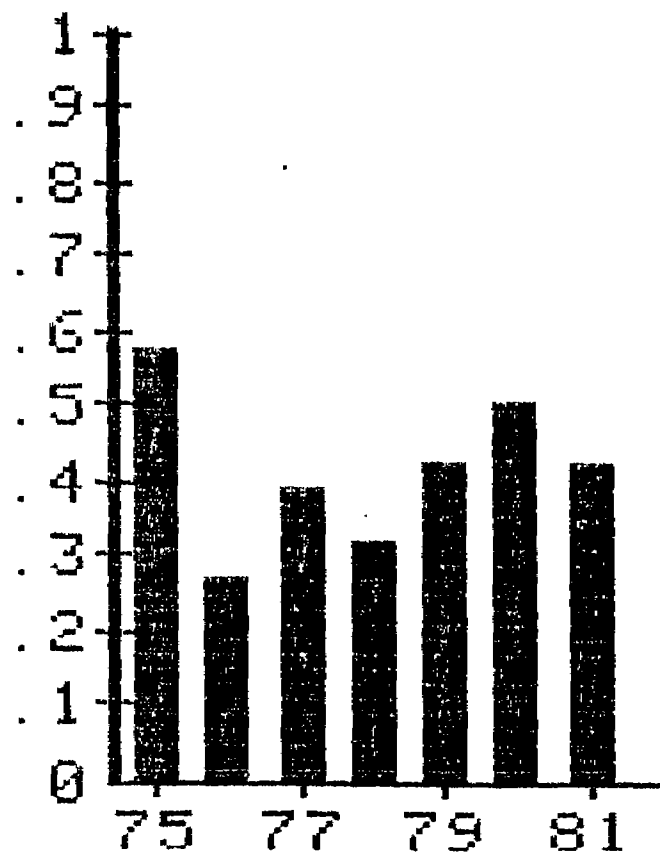
YEAR

(NOTE SCALE CHANGE FOR C&S RATES)

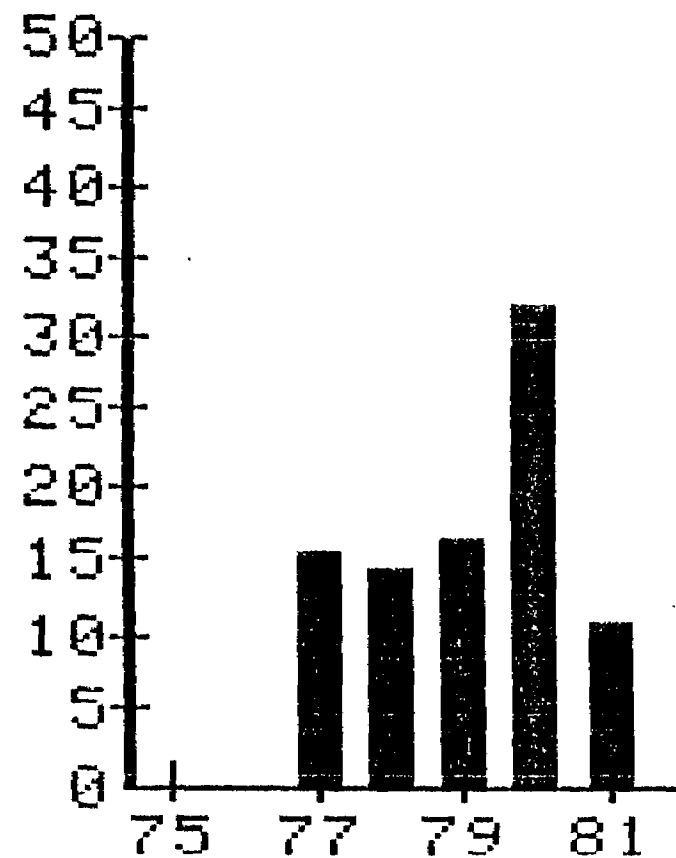
SI 103256

TOTAL CHEMICAL DIVISION

PER CENT

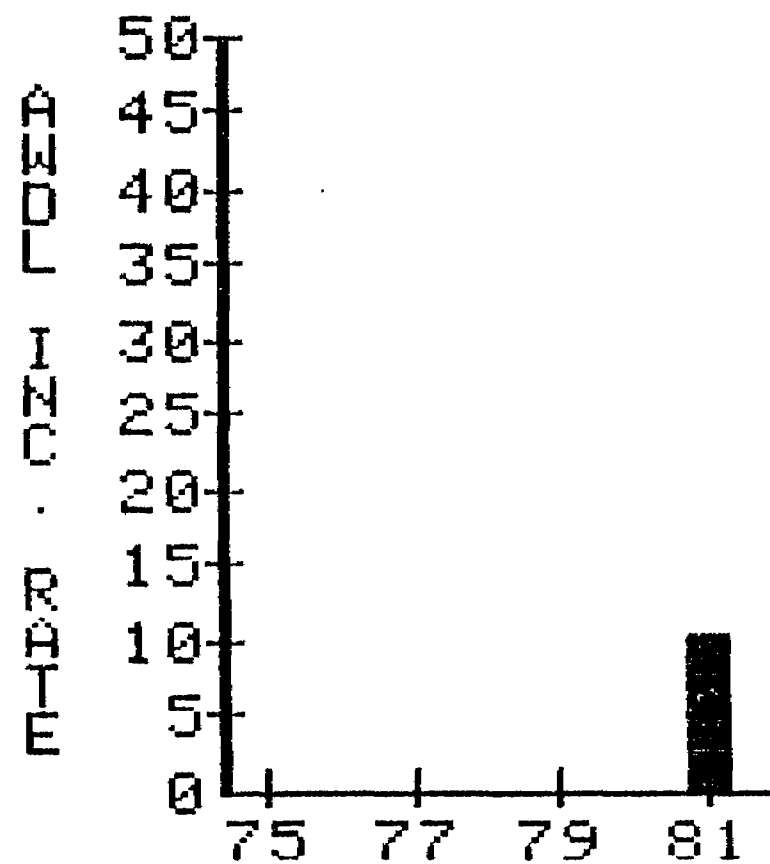
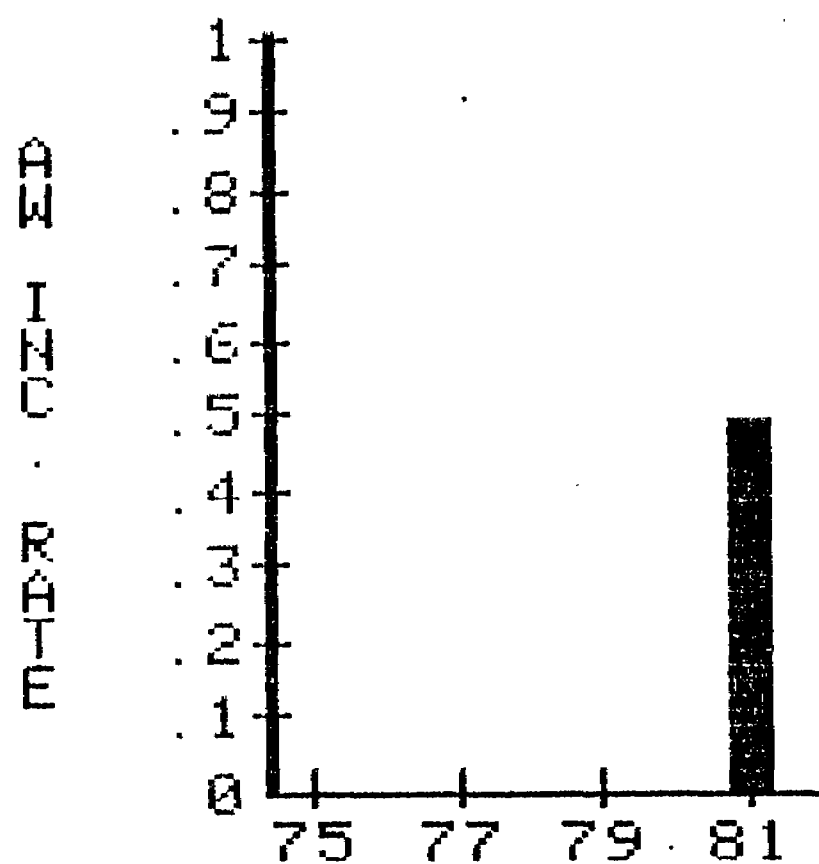


AWD IN PERCENT



YEAR

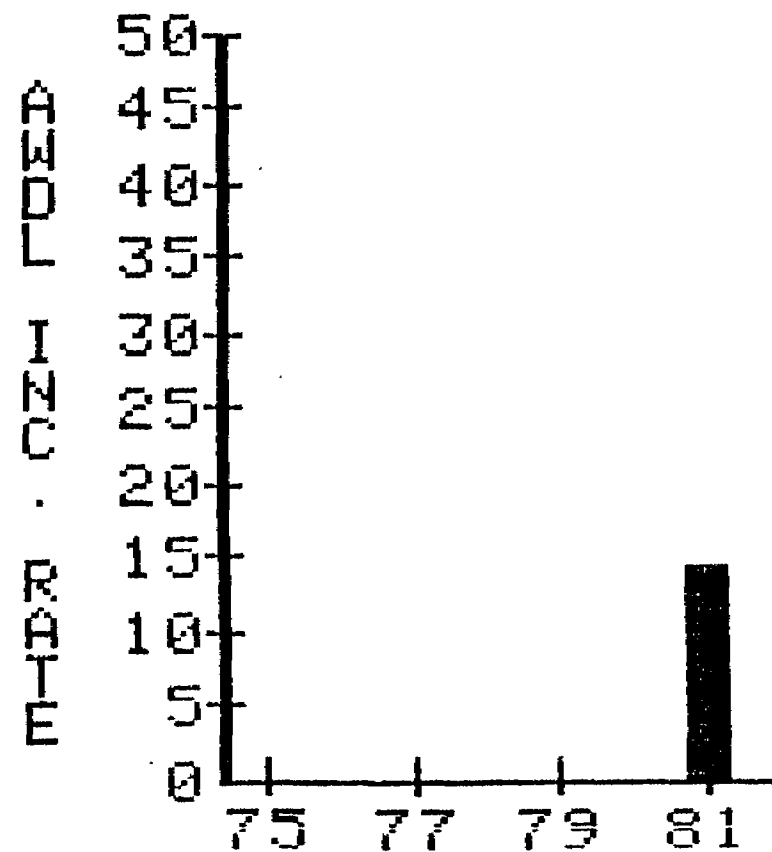
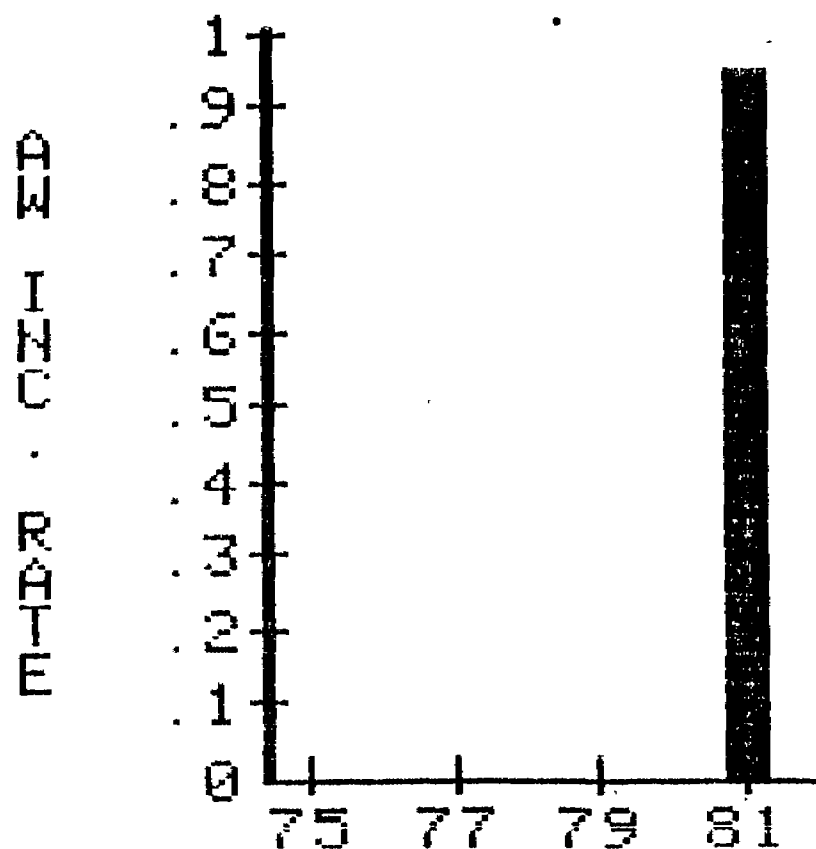
INDUSTRIAL CHEMICAL DIVISION



SL 103258

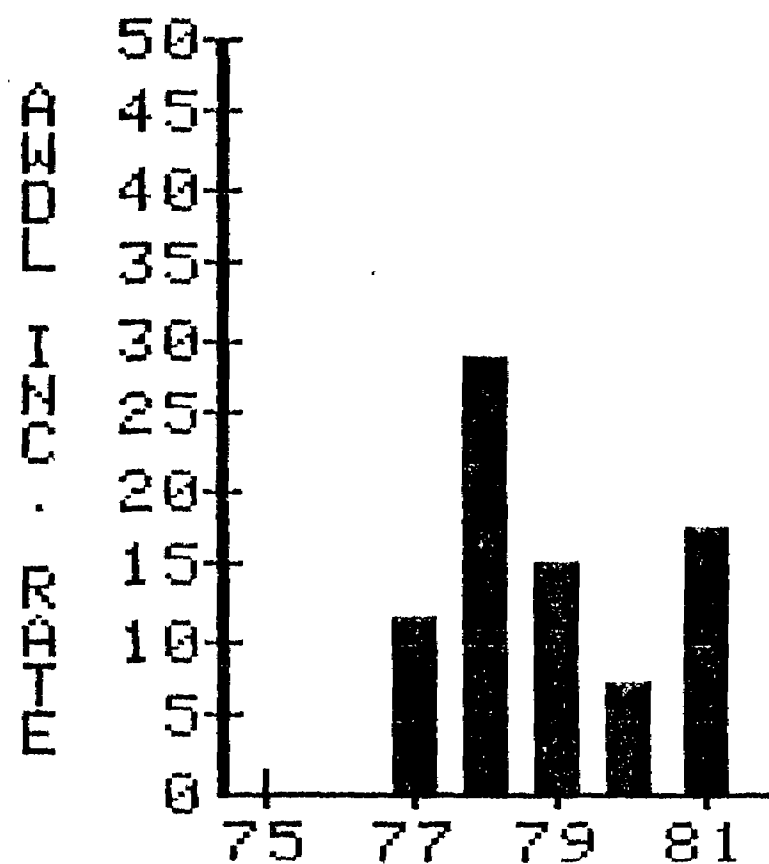
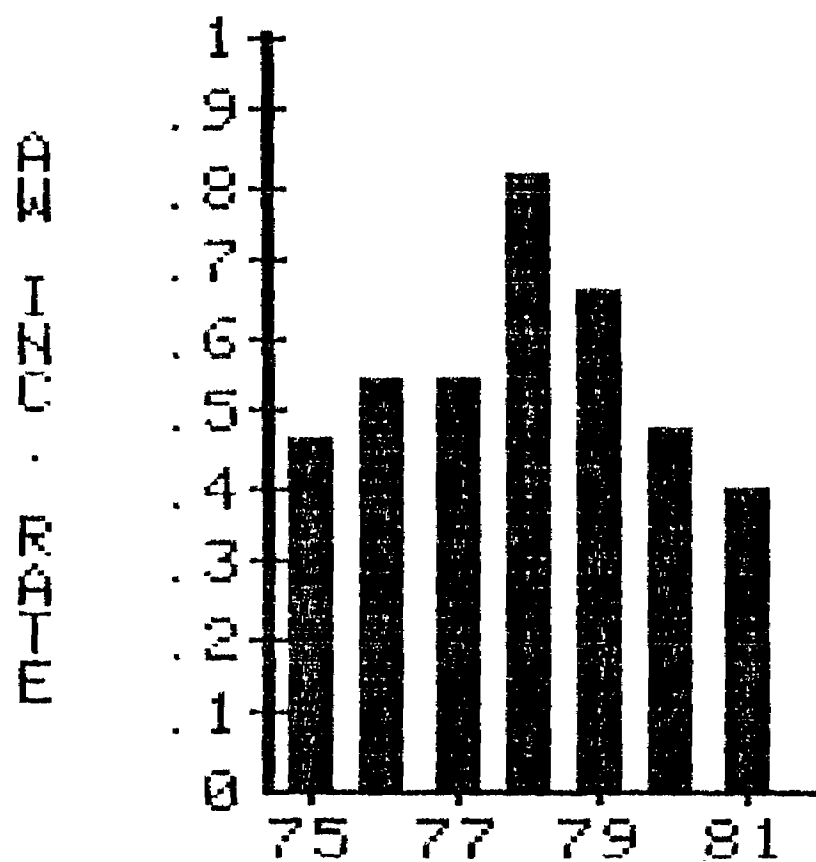
YEAR

A&P CHEMICAL DIVISION



YEAR

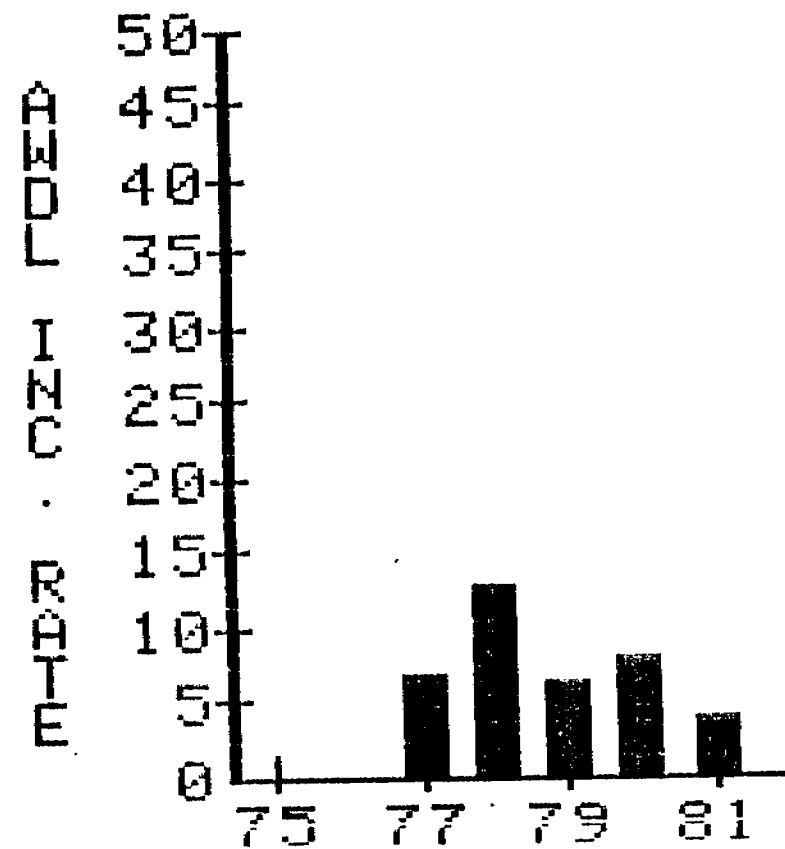
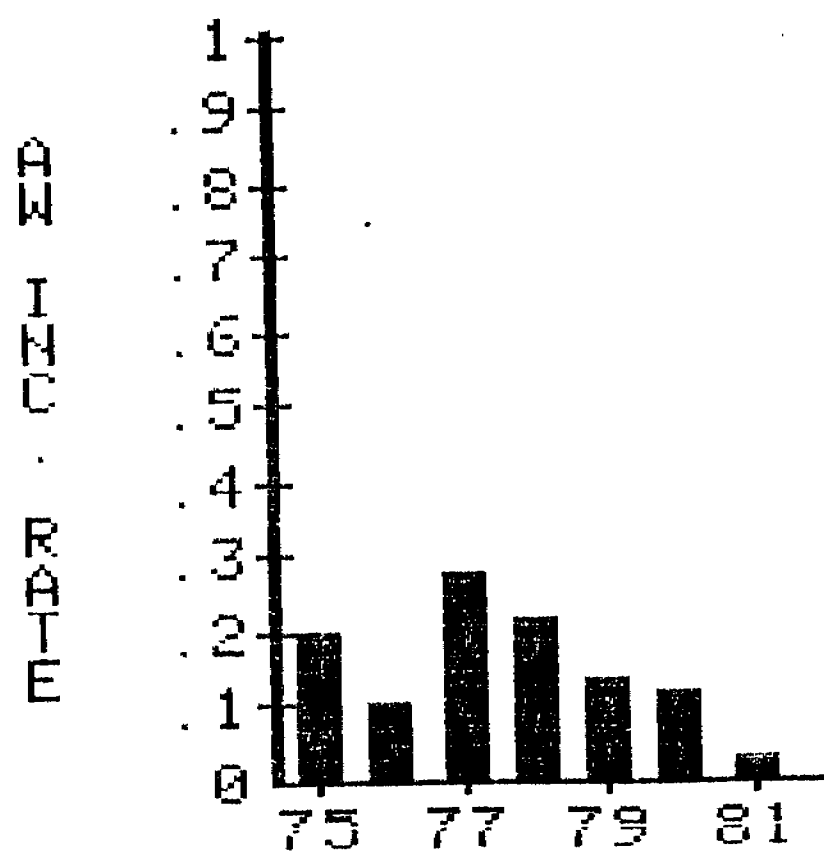
COATINGS & RESINS DIVISION



SL 103260

YEAR

FIBERGLASS DIVISION



YEAR

AWARD SUMMARY

PPG Industries, Inc. has its own internal awards program. One set of awards is based on a calendar year and the other set recognizes ongoing achievements as well as the size of the location.

PPG also participated in the awards programs sponsored by the National Safety Council and the program sponsored by the Private Truck Council of America.

The following summary details our experience in 1981.

SL 103263

PPG INDUSTRIES, INC.
CALENDAR YEAR
AWARDS PROGRAM

1981 Award of Honor

Fifteen plants, six research and development units, and eleven sales and distribution units completed 1981 without a death or away-from-work case. Consequently, these units earned the Corporation's Award of Honor. They are:

Manufacturing

Location

Works 23, Creighton, PA	Fifth Consecutive Year
Woodward, OK	Fourth " "
Cleveland, OH	Third " "
Mt. Zion, IL	Third " "
Circleville, OH	Second " "
East Point, GA	Second " "
Lexington, NC	Second " "
Springdale, PA	Second " "
Stockertown, PA	Second " "
Beaumont, TX	
Cumberland, MD	
Dover, DE	
LaPorte, TX	
Natrium, WV	

Research & Development Units

Barberton, OH, Technical Center	Nineteenth Consecutive Year
Corpus Christi, TX, Technical Center	Fourth " "
Chicago, IL, Research & Development	Second " "
C&R Research & Development	Second " "
Fiber Glass Research	Second " "

Sales & Distribution Units

Ditzler Warehouses	Ninth Consecutive Year
C&R Industrial Sales	Eighth " "
Chemical Sales & Distribution	Fourth " "
C&R Canada Sales	Third " "
ARG Depots	Second " "
C&R St. Louis	Second " "
Caribe	
C&R Chicago Sales	

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PPG INDUSTRIES, INC.
CALENDAR YEAR
AWARDS PROGRAM
(CONTINUED)

1980 Award of Merit Presented in 1981

Crestline, OH
Ford City, PA
Huntsville, AL
LaPorte, TX
Marshall, MN
Meadville, PA
Wichita Falls, TX

1981 Award of Merit Applications

Clarkson, Ont.
Crestline, OH
Crystal City, MO
Houston, TX
Lincoln, IL
Meadville, PA
Mt. Zion, IL
Oak Creek, WI
Shelby, NC
Tipton, PA
Toronto, Ont.
Torrance, CA
Wichita Falls, TX

PPG INDUSTRIES, INC.
ON-GOING RECORDS
AWARDS PROGRAM
1981

President's Award

No unit qualified during the year.

Special Recognition Award

Creighton, PA Works #23	11/16/76-10/10/81	1,758 days
C&R Division R&D (All Locations in PA	6/15/79-11/12/81	882 days
Cleveland, OH	10/19/78-2/21/81	857 days
Natrium, WV	4/23/80-11/14/81	571 days

Executive Award

East Point, PA	5/30/79-6/5/81	738 days
Springdale, PA	5/21/79-4/6/81	655 days
Delaware, OH	10/6/79-3/30/81	541 days
Crystal City, MO	7/5/80-11/6/81	491 days
Meadville, PA	9/10/80-10/22/81	406 days
Natrium, WV	4/23/80-3/21/81	333 days

NATIONAL SAFETY COUNCIL AWARD PROGRAM

1980 Awards Presented in 1981

Awards of Honor

Manufacturing

Carlisle, PA
Crystal City, MO
Ford City, PA
Fresno, CA
Lexington, NC
Meadville, PA
Wichita Falls, TX

Research and Development

Barberton, OH, Technical Center

Awards of Merit

Manufacturing

Cleveland, OH
Creighton, PA (Works #1 and #23)
Cumberland, MD
Delaware, OH
Huntsville, AL
Mt. Zion, IL
Shelby, NC
Springdale, PA
Valencia, CA

Research and Development

C&R Research and Development
Fiber Glass Research
Glass Research

Awards of Commendation

Manufacturing

Circleville, OH
East Point, GA

Research and Development

Corpus Christi, TX, Technical Center

Sales and Distribution

STANCHEM

President's Citation

Manufacturing

Woodward, OK

Sales and Distribution

Caribe

PRIVATE TRUCK COUNCIL OF AMERICA

1980 AWARDS PRESENTED IN 1981

<u>Location</u>	<u>Accomplishment</u>	<u>Award</u>
Crestline, OH Fleet	Completed 1980; no accidents	Gold Seal
Tipton, PA Fleet	Outstanding 5 yr. performance	Silver Seal
Amarillo, TX C&S Fleet	Completed 1980; no accidents	Gold Seal
El Paso, TX C&S Fleet	Completed 1980; no accidents	Gold Seal
Lemoyne, PA C&S Fleet	Completed 1980; no accidents	Gold Seal
Memphis, TN C&S Fleet	Completed 1980; no accidents	Gold Seal
Oklahoma City, OK C&S Fleet	Completed 1980; no accidents	Gold Seal
San Antonio, TX C&S Fleet	Completed 1980; no accidents	Gold Seal
Tulsa, OK C&S Fleet	Completed 1980; no accidents	Gold Seal
Houston, TX C&S Fleet	Reduced AFR by 62%	Red Seal

NATIONAL SAFETY COUNCIL

NATIONAL FLEET SAFETY CONTEST

1980 AWARDS PRESENTED IN 1981

<u>Location</u>	<u>Accomplishment</u>	<u>Award</u>
Corporate Truck Fleet, Delaware, OH	Reduced AFR by 25%	Certificate of Achievement
Crestline, OH Fleet	Completed 1980; no accidents	Perfect Record Certificate
Amarillo, TX C&S Fleet	Completed 1980; no accidents	Perfect Record Certificat
El Paso, TX C&S Fleet	Completed 1980; no accidents	Perfect Record Certificat
Lemoyne, PA C&S Fleet	Completed 1980; no accidents	Perfect Record Certificate
Memphis, TN C&S Fleet	Completed 1980; no accidents	Perfect Record Certificat~
Oklahoma City, OK C&S Fleet	Completed 1980; no accidents	Perfect Record Certificat
San Antonio, TX C&S Fleet	Completed 1980; no accidents	Perfect Record Certificate
Tulsa, OK C&S Fleet	Completed 1980; no accidents	Perfect Record Certificate

SL 103268

1981

OSHA INSPECTION EXPERIENCE

BY REASON FOR INSPECTION

	<u>Fatality</u>	<u>Employee Complaint</u>	<u>Routine</u>	<u>Sub Contractor</u>	<u>Industrial Hygiene</u>	<u>Accident Investigation</u>	<u>Follow Up</u>	<u>Total</u>
Glass	0	0	5	0	0	0	1	6
C&S Dept.	1	2	3	24	0	0	0	30
Chemical	0	2	1	0	0	0	0	3
C&R	0	3	1	0	0	1	0	5
F/G	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	1	7	11	24	0	1	1	45

BY INSPECTION RESULTS

	<u>Insp. With Citation</u>	<u>Insp. No Citation</u>	<u>Viola- tions No Penalty</u>	<u>Viola- tions With Penalty</u>	<u>Amt. of Penalties</u>	<u>*Avg. Penalty Received</u>	<u>Results Not Received</u>	<u>**Contested Violations</u>
Glass	2	4	4	0	0	0	0	0
C&S Dept.	13	14	8	8	1,495	187	3	3
Chemical	2	1	2	2	1,260	630	0	2
C&R	0	4	0	0	0	0	1	0
F/G	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
Total	17	23	14	10	2,755	276	5	5

*Average penalty received per violation assigned penalty.

**Either through formal procedures or informal meeting with OSHA area personnel.

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COMBINED 1971-1981
OSHA INSPECTION EXPERIENCE

BY REASON FOR INSPECTION

	<u>Fatality</u>	<u>Employee Complaint</u>	<u>Routine</u>	<u>Sub Contractor</u>	<u>Industrial Hygiene</u>	<u>Accident Investigation</u>	<u>Follow Up</u>	<u>Total</u>
Glass	1	23	26	0	5	0	19	74
C&S Dept.	1	11	39	192	0	0	6	249
Chemical	3	25	16	1	3	1	13	62
C&R	1	28	12	0	5	1	15	62
F/G	1	4	7	0	0	0	3	15
Other	0	2	6	0	1	0	2	11
TOTAL	7	93	106	193	14	2	58	473

BY INSPECTION RESULTS

	<u>Insp. With Citation</u>	<u>Insp. No Citation</u>	<u>Viola- tions No Penalty</u>	<u>Viola- tions With Penalty</u>	<u>Amt. of Penalties</u>	<u>*Avg. Penalty Received</u>	<u>Results Not Received</u>	<u>**Contested Violations</u>
Glass	38	36	175	64	\$ 6,290	98	0	8
C&S Dept.	175	71	317	148	24,049	162	3	34
Chemical	20	43	37	29	2,520	87	0	19
C&R	23	37	68	34	10,740	316	1	11
F/G	6	8	24	10	1,525	153	1	0
Other	7	4	58	21	2,630	125	0	0
TOTAL	269	199	679	305	\$47,754	157	5	72

*Average penalty received per violation assigned penalty.

**Either through formal procedures or informal meeting with OSHA area personnel.

SL 103271

1981 VISITATION MATRIX

CITY	STATE OR PROVINCE	LOCATION NAME	DIVISION	SAFETY	HEALTH	MEDICAL	FIRE	SECURITY	FLEET
CARIBE	PUERTO RICO	CARIBE	CHEMICAL						
LAKE CHARLES	LOUISIANA	LAKE CHARLES	CHEMICAL	M	M	X	X		
NEW MARTINSVILLE	WEST VIRGINIA	NATRIUM	CHEMICAL	M	X	X	M		
BEAUMONT	TEXAS	BEAUMONT	CHEMICAL	M	M	M			
CORPUS CHRISTI	TEXAS	CORPUS R & D	CHEMICAL	X					
BARBERTON	OHIO	BARBERTON MFG	CHEMICAL	M	X	X	X		X
BARBERTON	OHIO	BARBERTON R & D	CHEMICAL	M	X	X			
BEAUHARNOIS	QUEBEC	BEAUHARNOIS	CHEMICAL	M	M	X			
REGINA	SASKATCHEWAN	KALIUM	CHEMICAL	M					
WOODWARD	OKLAHOMA	WOODWARD	CHEMICAL	X	M	X			
PITTSBURGH	PENNSYLVANIA	US SLS-DST	CHEMICAL						
MONTREAL	QUEBEC	STANCHEN	CHEMICAL	M		X			X
LA PORTE	TEXAS	LA PORTE	CHEMICAL	M	M				X
STOCKERTOWN	PENNSYLVANIA	STOCKERTOWN	CHEMICAL		M	X			X
CHICAGO	ILLINOIS	CHICAGO R & D	CHEMICAL						
CREIGHTON	PENNSYLVANIA	WORKS 1	GLASS	M	M	X		M	
WICHITA FALLS	TEXAS	WORKS 4	GLASS		X				
FORD CITY	PENNSYLVANIA	WORKS 5	GLASS	M	M	X	M		
CARLISLE	PENNSYLVANIA	WORKS 6	GLASS	X	M	X			M
CUMBERLAND	MARYLAND	WORKS 7	GLASS						
HEADVILLE	PENNSYLVANIA	WORKS 8	GLASS	M	X	X			
CRYSTAL CITY	MISSOURI	WORKS 9	GLASS	M	X		X	X	
MT. ZION	ILLINOIS	WORKS 14	GLASS				X	X	
FRESNO	CALIFORNIA	WORKS 15	GLASS	X	X	X			
MARSHALL	MINNESOTA	WORKS 20	GLASS	M					
LINCOLN	ILLINOIS	WORKS 21	GLASS						
HUNSTVILLE	ALABAMA	WORKS 22	GLASS		X	X			
CREIGHTON	PENNSYLVANIA	WORKS 23	GLASS	M	M	X			
VALENCIA	CALIFORNIA	WORKS 24	GLASS	X	X	X			
GREENSBURG	PENNSYLVANIA	WORKS 25	GLASS		M	X		X	
CRESTLINE	OHIO	WORKS 26	GLASS	M	M				
TIPTON	PENNSYLVANIA	WORKS 27	GLASS		M				X
EVANSVILLE	INDIANA	WORKS 28	GLASS	X	M				
KOKOMO	INDIANA	WORKS 19	GLASS	M	M				
		ARG CENTER	GLASS						
		WORKS 17	GLASS	M		X	X	M	
		EASTERN BRANCH	GLASS	M					M
		METAL FAB	GLASS	X	X			M	X

X = VISIT BY EITHER DIVISIONAL OR CORPORATE STAFFS

M = MORE THAN ONE VISIT BY DIVISIONAL OR CORPORATE STAFFS

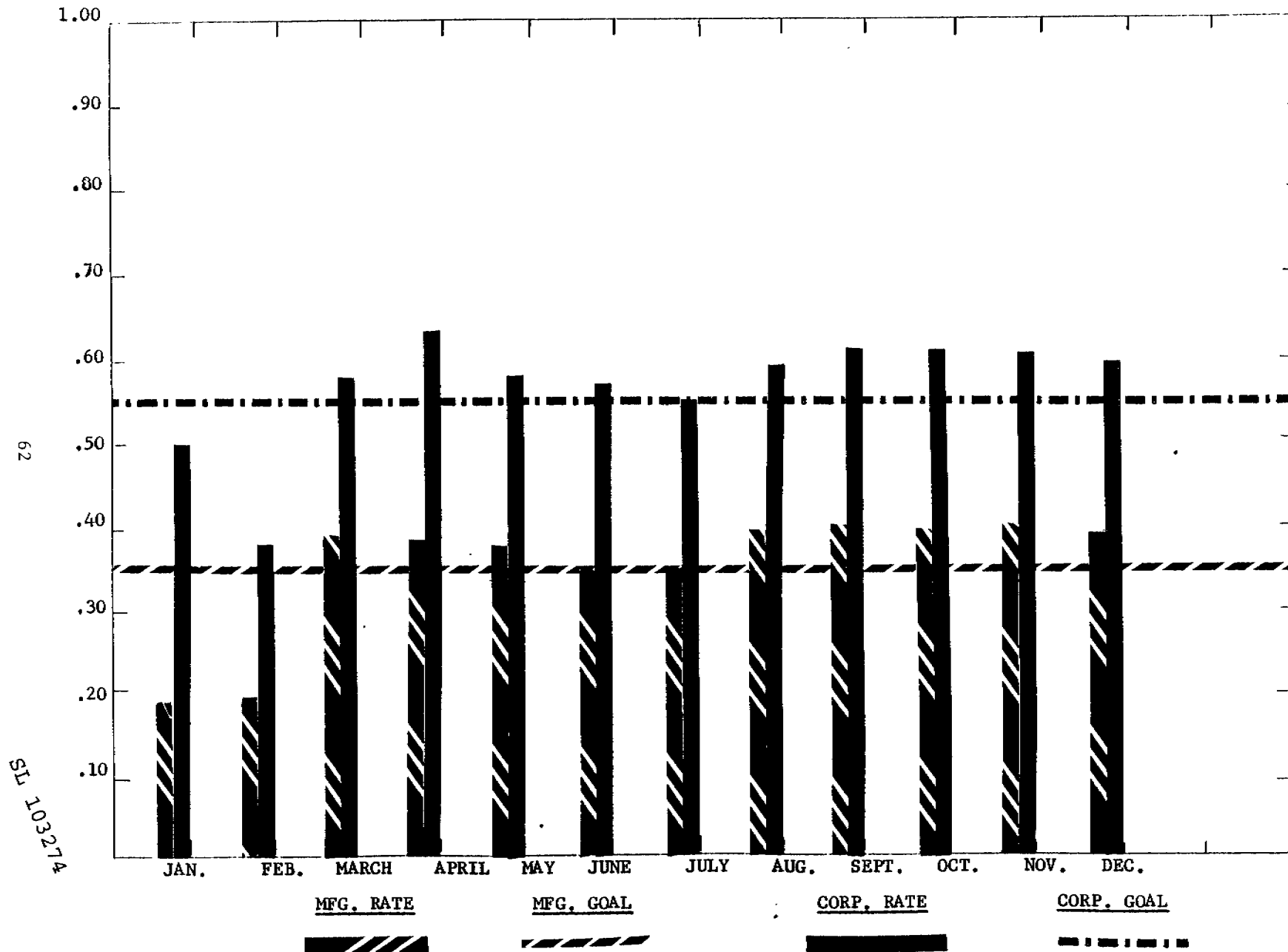
CITY	STATE OR PROVINCE	LOCATION NAME	DIVISION	SAFETY	HEALTH	MEDICAL	FIRE	SECURITY	FLEET
		FAB PRODUCTS	GLASS	M	X				X
		CENTRAL BRANCH	GLASS	M					X
		WESTERN BRANCH	GLASS	X				X	M
		C C G	GLASS	M					
		ARG DEPOTS	GLASS	X					
BALTIMORE	MARYLAND	BALTIMORE	C & R	M					
DELAWARE	OHIO	DELAWARE	C & R	M	X		X	M	
SPRINGDALE	PENNSYLVANIA	SPRINGDALE MFG	C & R	M	X	X		M	
SPRINGDALE	PENNSYLVANIA	ALL R & D	C & R	M	M	M		M	
INK MANUFACTURING	LOCATIONS			M					M
TORRANCE	CALIFORNIA	TORRANCE MFG	C & R	M	M	X			X
CLEVELAND	OHIO	CLEVELAND	C & R	X		X			X
CIRCLEVILLE	OHIO	CIRCLEVILLE	C & R	M	X		X		
DOVER	DELAWARE	DOVER	C & R	X					
EAST POINT	GEORGIA	EAST POINT	C & R	M	X	X			
OAK CREEK	WISCONSIN	OAK CREEK	C & R	M	M	X			
HOUSTON	TEXAS	HOUSTON	C & R	X					X
		HOUSTON SLS	C & R	M*	X**				
		ATLANTA SLS	C & R	M*					
		CHICAGO SLS	C & R	M*					
		PGH SLS	C & R	M*					
		L A SLS	C & R	M*					
		ST. LOUIS SLS	C & R	M*					
		NEW YORK SLS	C & R	M*					
		INDUST SLS	C & R						
		REFINISH SLS	C & R						
		DST CENTERS	C & R	M*					
		DITZLER WHSE	C & R						
CLARKSON	ONTARIO	CLARKSON	C & R	X				X	
TORONTO	ONTARIO	TORONTO	C & R	X					
		CANADA REGN	C & R						
		DST CTR CAN	C & R						
SHELBY	NORTH CAROLINA	WORKS 52	FIBER GLASS	M	M	X		X	
LEXINGTON	NORTH CAROLINA	WORKS 53	FIBER GLASS	M	M	X		X	
FT. LAUDERDALE	FLORIDA	WORKS 56	FIBER GLASS	X					
BLAWNOX	PENNSYLVANIA	ALL R & D	FIBER GLASS	M	M	M			

* C&R Plant Safety Personnel and Divisional Staff

** Mexico City & Corona, France

PPG INDUSTRIES, INC.

1981 INJURY/ILLNESS EXPERIENCE



PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 2,864 HARMARVILLE
HOURS- 8,447,386 WORKS NO. 7

GLASS GROUP

	HRS YTD (000)	NSC CASES NO	NSC YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST D YTD T	** H.MO	LN YR	CASES MO	** TOTAL	*** MO	DAYS YR	LOST NO	**** TOTAL	HF CASES MO	***** RC	INCIDENCE LW	RATES AW	***** NF	ANDL	TDL
FLAT GL DIV. MANUFACTURE PRIM GL																						
WORKS NO. 4	1854	0	2	0.36	0.22	0.36	181 0	0	2	0	7	0	8	0	111	3	69	8.20	0.75	0.22	7.44	0.9 12.0
WORKS NO. 6	2045	0	5	0.32	0.49	0.30	29 0	0	5	0	9	0	123	0	213	2	11	1.96	0.88	0.49	1.08	12.0 20.8
WORKS NO. 7	933	0	0	0.51	0.00	1.00	105 0	0	0	1	6	0	0	9	25	1	19	5.36	1.29	0.00	4.07	0.0 5.4
WORKS NO. 8	1310	0	1	0.43	0.15	0.30	25 0	0	1	1	13	21	44	37	131	0	15	4.27	1.98	0.15	2.29	6.7 20.0
WORKS NO. 9	1071	0	1	0.18	0.19	0.11	17 0	0	1	0	5	22	32	22	239	2	27	5.97	0.93	0.19	5.04	6.0 44.6
WORKS NO. 14	410	0	0	0.41	0.00	0.47	69 0	0	0	0	1	0	0	0	9	0	2	1.46	0.49	0.00	0.97	0.0 4.4
WORKS NO. 15	721	0	4	0.52	1.11	0.80	36 0	0	4	1	42	0	66	71	822	0	7	13.59	11.65	1.11	1.94	18.3 227.9
TOTAL **	8347	0	13	0.38	0.31	0.42	465 0	0	13	3	83	43	273	139	1550	8	150	5.58	1.99	0.31	3.59	6.5 37.1
GLASS EDGE																						
WORKS NO. 20	343	0	1	0.44	0.58	0.30	16 0	0	1	0	2	0	128	0	201	0	6	4.66	1.16	0.58	3.49	74.6 117.1
WORKS NO. 21	414	0	1	0.41	0.48	0.43	11 0	0	1	0	1	0	8	0	8	0	2	1.45	0.48	0.48	0.97	3.9 3.9
TOTAL **	757	0	2	0.42	0.53	0.37	27 0	0	2	0	3	0	136	0	209	0	8	2.90	0.79	0.53	2.11	35.9 55.2
ENVIRON GL																						
WORKS NO. 5	1261	1	8	0.29	1.27	0.54	145 0	1	8	1	21	92	344	159	609	3	29	7.93	3.33	1.27	4.60	54.5 96.6
TOTAL **	1261	1	8	0.00	1.27	0.54	145 0	1	8	1	21	92	344	159	609	3	29	7.93	3.33	1.27	4.60	54.5 96.6
TOTAL **	10365	1	23	0.38	0.44	0.43	637 0	1	23	4	107	135	753	298	2368	11	187	5.67	2.06	0.44	3.61	14.5 45.7
SALES-DST C & S																						
CCG	1715	3	32	4.80	3.73	3.95	0 1	3	31	3	31	790	9	790	9	6	59	10.61	3.62	3.62	6.88	1.0 1.0
WORKS NO. 19	292	0	6	1.39	4.10	2.12	4 0	0	6	0	6	0	49	0	49	0	5	7.51	4.10	4.10	3.41	33.5 33.5
EASTERN BR.	847	1	7	1.14	1.65	1.21	1500 0	1	7	1	7	79	208	79	208	2	13	4.72	1.65	1.65	3.07	49.1 49.1
ARG CENTERS	389	0	1	1.00	0.51	2.04	0 0	0	1	0	1	0	22	0	22	0	2	1.54	0.51	0.51	1.03	11.3 11.3
CENTRAL BR.	773	0	8	2.50	2.07	3.06	0 0	0	8	0	8	207	500	207	500	2	17	6.47	2.07	2.07	4.40	29.3 129.3
WESTERN BR.	1331	0	9	1.38	1.35	1.33	0 0	0	9	0	9	35	155	35	155	6	61	10.51	1.35	1.35	9.16	23.3 23.3
FAB. PROD.	542	0	14	2.66	5.16	5.31	0 0	0	14	0	15	4	533	4	536	9	49	23.61	5.53	5.16	18.07	96.6 197.7
METAL FAB.	174	0	1	1.33	1.15	1.31	0 0	0	1	0	1	0	15	0	15	0	2	3.45	1.15	1.15	2.30	17.2 17.2
TOTAL **	6065	4	78	2.13	2.57	2.44	1504 1	4	77	4	78	1115	1491	1115	1494	25	208	9.46	2.57	2.54	6.86	49.2 49.3
TOTAL **	6065	4	78	2.13	2.57	2.44	1504 1	4	77	4	78	1115	1491	1115	1494	25	208	9.46	2.57	2.54	6.86	49.2 49.3
TOTAL **	16431	5	101	1.11	1.23	1.07	2142 1	5	100	8	185	1250	2244	1413	3862	36	395	7.07	2.25	1.22	4.81	27.3 47.0

DTH = DEATH
RC = RECORDABLE CASES

AW = AWAY FROM WORK
ANDL = AWAY FROM WORK DAYS

LW = LOST WORKDAY
TDL = TOTAL DAYS LOST

NF = NON FATAL
NSC = NATIONAL SAFETY COUNCIL

SL 103275

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 2,864 HARMARVILLE
HOURS- 8,447,386 WORKS NO. 7

GLASS GROUP

	HRS YTD (000)	NSC CASES NO	YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST D YTD T (000)	D H.MO	** AN YR	LN MO	CASES TOTAL YR	** YR	*** MO	DAYS AN YR	LOST MO	**** TOTAL YR	HF CASES MO	YR	***** RC	INCIDENCE LW	RATES AN	***** NF	ANDL	TDL
AUTO AIR GL DIV																								
MANUFACTURE																								
AUTO OEM																								
WORKS NO. 1	1317	1	5	0.36	0.76	0.32	87	0	1	5	1	8	13	147	13	519	0	66	11.23	1.21	0.76	10.02	22.3	78.8
WORKS NO. 25	999	0	2	0.42	0.40	0.55	261	0	0	2	0	28	47	187	47	668	2	15	8.60	5.60	0.40	3.00	37.4	133.6
WORKS NO. 26	1824	0	2	0.00	0.22	0.13	54	0	0	2	1	3	0	83	1	84	0	15	1.97	0.33	0.22	1.64	9.1	9.2
WORKS NO. 27	1346	0	2	0.33	0.30	0.33	63	0	0	2	0	2	10	41	10	41	0	28	4.46	0.30	0.30	4.16	6.1	6.1
WORKS NO. 28	627	0	4	0.57	1.28	0.00	20	0	0	4	1	9	14	259	21	370	1	15	7.65	2.87	1.28	4.78	82.6	118.0
TOTAL **	6115	1	15	0.28	0.49	0.29	487	0	1	15	3	50	84	717	92	1682	3	139	6.18	1.64	0.49	4.55	23.4	55.0
AIRCRAFT																								
WORKS NO. 22	1132	0	3	0.32	0.53	0.30	9	0	0	3	0	3	44	96	44	96	0	0	0.53	0.53	0.53	0.00	17.0	17.0
WORKS NO. 23	216	0	0	0.00	0.00	0.00	1	0	0	0	0	0	0	0	0	0	0	2	1.84	0.00	0.00	1.84	0.0	0.0
WORKS NO. 24	451	1	3	0.42	1.33	0.89	99	0	1	3	1	3	41	122	41	145	0	10	5.76	1.33	1.33	4.43	54.1	64.3
TOTAL **	1800	1	6	0.33	0.67	0.41	110	0	1	6	1	6	85	218	85	241	0	12	2.00	0.67	0.67	1.33	24.2	26.8
TOTAL **	7916	2	21	0.29	0.53	0.32	598	0	2	21	4	56	169	935	177	1923	3	151	5.23	1.61	0.53	3.81	23.6	48.6
SALES-DST																								
ARG DEPOTS	201	0	0	1.08	0.00	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0
TOTAL **	201	0	0	1.08	0.00	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0
TOTAL **	8117	2	21	0.31	0.52	0.32	598	0	2	21	4	56	169	935	177	1923	3	151	5.10	1.38	0.52	3.72	23.0	47.4
R & D																								
HARMARVILLE	802	0	1	0.25	0.25	0.08	3	0	0	1	0	1	0	5	0	5	1	8	2.24	0.25	0.25	1.99	1.2	1.2
TOTAL **	802	0	1	0.25	0.25	0.08	3	0	0	1	0	1	0	5	0	5	1	8	2.24	0.25	0.25	1.99	1.2	1.2
TOTAL **	802	0	1	0.25	0.25	0.08	3	0	0	1	0	1	0	5	0	5	1	8	2.24	0.25	0.25	1.99	1.2	1.2
GROUP TOTAL **	25352	7	123	0.85	0.97	0.80	2745	1	7	122	12	242	1419	3184	1590	5790	40	554	6.29	1.91	0.96	4.37	25.1	45.7

DTH = DEATH
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ANDL = AWAY FROM WORK DAYS

LW = LOST WORKDAY
TDL = TOTAL DAYS LOST

HF = NON FATAL
HSC = NATIONAL SAFETY COUNCIL

SL 103276

SL 103277

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 0
HOURS- 0

COATINGS & RESINS DIV ALL OPER

	HRS YTD (000)	HSC CASES MO YR	***** GOAL	HSC RATE CURR	***** 3 YR	COST D YTD T (000) H	MO	LN AN	CASES MO YR	***** TOTAL YR	***** DAYS LOST MO YR	***** TOTAL YR	***** HF CASES MO YR	***** INCIDENCE RC	***** LW	***** AN	***** NF	***** ANDL	***** IDL
MANUFACTURE																			
BALTIMORE	465	0 1	0.53	0.43	0.77	30	0 0	1 0	1	76	271	76	271	0 6	3.01	0.43	0.43	2.58	16.51
CIRCLEVILLE	419	0 0	0.44	0.00	0.43	36	0 0	0 0	2	0	0	0	10	0 2	1.91	0.95	0.00	0.95	0.0
CLARKSON	488	0 1	0.40	0.41	1.13	6	0 0	1 0	1	0	6	27	33	1 8	3.69	0.41	0.41	3.28	2.5
CLEVELAND	1061	0 0	0.17	0.00	0.12	16	0 0	0 0	3	0	0	0	38	0 6	1.70	0.57	0.00	1.13	0.0
DELAWARE	955	0 2	0.00	0.42	0.15	31	0 0	2 1	7	200	298	203	335	1 5	2.51	1.46	0.42	1.05	62.4
DOVER	192	0 0	1.04	0.00	1.71	0	0 0	0 0	1	0	0	0	7	0 2	3.12	1.04	0.00	2.08	0.0
EAST POINT	490	0 0	0.38	0.00	0.39	25	0 0	0 0	2	0	0	0	71	1 11	5.30	0.82	0.00	4.49	0.0
HOUSTON	378	0 1	0.00	0.53	0.70	36	0 0	1 0	4	0	5	0	25	0 3	3.70	2.11	0.53	1.59	2.6
OAK CREEK	1028	0 1	0.60	0.19	0.93	100	0 0	1 0	14	0	18	8	231	0 5	3.69	2.72	0.19	0.97	3.5
SPRINGDALE	640	0 0	0.00	0.00	0.30	27	0 0	0 0	2	0	0	0	13	0 3	1.56	0.62	0.00	0.94	0.0
TORONTO	269	0 1	0.69	0.74	1.96	36	0 0	1 0	1	0	4	0	4	0 5	4.45	0.74	0.74	3.71	3.0
TORRANCE	428	0 2	1.33	0.93	2.19	131	0 0	2 0	8	0	117	0	185	0 5	6.07	3.73	0.93	2.33	54.6
TOTAL **	6818	0 9	0.52	0.26	0.70	480	0 0	9 1	46	276	719	314	1223	3 61	3.14	1.35	0.26	1.79	21.1
R & D																			
ALL LOC.	1098	0 0	0.18	0.00	0.36	11	0 0	0 0	2	0	0	0	25	0 12	2.55	0.36	0.00	2.19	0.0
TOTAL **	1098	0 0	0.18	0.00	0.36	11	0 0	0 0	2	0	0	0	25	0 12	2.55	0.36	0.00	2.19	0.0
SALES-DST REGIONS																			
ATLANTA	509	0 1	0.00	0.39	0.75	0	0 0	1 0	1	0	7	0	7	2 8	3.53	0.39	0.39	3.14	2.7
CANADA	159	0 0	0.00	0.00	0.00	8	0 0	0 0	0	0	0	0	0	0 3	3.77	0.00	0.00	3.77	0.0
CHICAGO	315	0 0	0.00	0.00	0.42	0	0 0	0 0	0	0	0	0	0	1 6	3.80	0.00	0.00	3.80	0.0
HOUSTON	431	1 2	0.00	0.93	0.19	0	0 1	2 1	2	34	65	34	65	0 1	1.39	0.93	0.93	0.46	30.1
LOS ANGELES	209	0 3	0.00	2.86	2.07	2	0 0	3 0	3	0	18	0	18	0 2	4.77	2.86	2.86	1.91	17.2
NEW YORK	355	0 4	0.00	2.25	0.98	0	0 0	4 0	4	0	61	0	61	0 3	3.94	2.25	2.25	1.69	34.3
PITTSBURGH	282	0 1	0.00	0.71	0.89	0	0 0	1 0	2	0	19	0	20	0 0	1.42	1.42	0.71	0.00	13.5
ST. LOUIS	242	0 0	0.00	0.00	0.84	0	0 0	0 0	0	0	0	0	0	0 2	1.65	0.00	0.00	1.65	0.0
TOTAL **	2506	1 11	0.59	0.88	0.80	11	0 1	11 1	12	34	170	34	171	3 25	2.95	0.96	0.88	1.99	13.6
DST																			
DIST CENTERS	199	0 2	1.01	2.01	1.67	0	0 0	2 0	2	0	15	0	15	0 2	4.02	2.01	2.01	2.01	15.1
DST CIR CAN	73	0 1	2.47	2.71	1.24	3	0 0	1 0	1	0	10	0	10	0 3	10.85	2.71	2.71	8.14	27.1
DITZLER HISE	263	0 0	0.78	0.00	0.00	0	0 0	0 0	4	0	0	0	43	0 5	6.82	3.03	0.00	3.79	0.0
INDL. SALES	360	0 0	0.00	0.00	0.00	2	0 0	0 0	0	0	0	0	0	0 2	1.11	0.00	0.00	1.11	0.0
REFINISH SLS	262	0 1	0.78	0.76	0.78	0	0 0	1 0	1	0	32	80	153	0 3	3.05	0.76	0.76	2.29	24.4
TOTAL **	1159	0 4	0.74	0.69	0.57	6	0 0	4 0	8	0	57	80	221	0 15	3.97	1.38	0.69	2.59	9.8
TOTAL **	3666	1 15	0.63	0.82	0.72	17	0 1	15 1	20	34	227	114	392	3 40	3.27	1.09	0.82	2.18	12.4
DIV TOTAL **	11582	1 24	0.54	0.41	0.67	509	0 1	24 2	68	310	946	428	1640	6 113	3.13	1.17	0.41	1.95	16.3

DTH = DEATH
RC = RECORDABLE CASES

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ANDL = AWAY FROM WORK DAYS

LN = LOST WORKDAY
IDL = TOTAL DAYS LOST

HF = NON FATAL
NSC = NATIONAL SAFETY COUNCIL

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 3,773
HOURS- 4,948,617 DELANARE

COATINGS & RESINS DIV US OPER.

	HRS YTD (000)	HSC CASES MO YR	***** GOAL	HSC RATE CURR	***** 3 YR	COST D YTD T (000) H MO	** LW YR MO	CASES TOTAL YR	*** DAYS MO YR	LOST TOTAL MO YR	**** COST YR	HF CASES MO YR	***** INCIDENCE RATES RC LW AN HF ANDL TDL											
MANUFACTURE																								
BALTIMORE	465	0	1	0.53	0.43	0.77	30	0	0	1	76	271	76	271	0	6	3.01	0.43	0.43	2.58	16.5	116.5		
CIRCLEVILLE	419	0	0	0.44	0.00	0.43	36	0	0	0	2	0	0	30	0	2	1.91	0.95	0.00	0.95	0.0	4.8		
CLEVELAND	1061	0	0	0.17	0.00	0.12	16	0	0	0	3	0	0	38	0	6	1.70	0.57	0.00	1.13	0.0	7.2		
DELAWARE	955	0	2	0.00	0.42	0.15	31	0	0	2	1	7	200	298	203	335	1	5	2.51	1.46	0.42	1.05	62.4	70.1
DOVER	192	0	0	1.04	0.00	1.71	0	0	0	0	1	0	0	7	0	2	3.12	1.04	0.00	2.08	0.0	7.3		
EAST POINT	490	0	0	0.38	0.00	0.39	25	0	0	0	2	0	0	71	1	11	5.30	0.82	0.00	4.49	0.0	29.0		
HOUSTON	378	0	1	0.00	0.53	0.70	36	0	0	1	0	4	0	25	0	3	3.70	2.11	0.53	1.59	2.6	13.2		
OAK CREEK	1028	0	1	0.60	0.19	0.93	100	0	0	1	0	14	0	18	8	231	0	5	3.69	2.72	0.19	0.97	3.5	44.9
SPRINGDALE	640	0	0	0.00	0.00	0.30	27	0	0	0	2	0	0	13	0	3	1.56	0.62	0.00	0.94	0.0	4.1		
TORRANCE	428	0	2	1.33	0.93	2.19	131	0	0	2	0	8	0	117	0	5	6.07	3.73	0.93	2.33	54.6	86.4		
TOTAL **	6060	0	7	0.46	0.23	0.61	437	0	0	7	1	44	276	709	287	1186	2	48	3.04	1.45	0.23	1.58	23.4	39.1
R & D																								
ALL LOC.	1098	0	0	0.18	0.00	0.36	11	0	0	0	0	2	0	0	0	25	0	12	2.55	0.36	0.00	2.19	0.0	4.6
TOTAL **	1098	0	0	0.18	0.00	0.36	11	0	0	0	0	2	0	0	0	25	0	12	2.55	0.36	0.00	2.19	0.0	4.6
99 SALES-DST																								
REGIONS																								
ATLANTA	509	0	1	0.00	0.39	0.75	0	0	0	1	0	1	0	7	0	7	2	8	3.53	0.39	0.39	3.14	2.7	2.7
CHICAGO	315	0	0	0.00	0.00	0.42	0	0	0	0	0	0	0	0	0	1	6	3.80	0.00	0.00	3.80	0.0	0.0	
HOUSTON	431	1	2	0.00	0.93	0.19	0	0	1	2	1	2	34	65	34	65	0	1	1.39	0.93	0.93	0.46	30.1	30.1
LOS ANGELES	209	0	3	0.00	2.86	2.07	2	0	0	3	0	3	0	18	0	18	0	2	4.77	2.86	2.86	1.91	17.2	17.2
NEW YORK	355	0	4	0.00	2.25	0.98	0	0	0	4	0	4	0	61	0	61	0	3	3.94	2.25	2.25	1.69	34.3	34.3
PITTSBURGH	282	0	1	0.00	0.71	0.89	0	0	0	1	0	2	0	19	0	20	0	0	1.42	1.42	0.71	0.00	13.5	14.2
ST. LOUIS	242	0	0	0.00	0.00	0.84	0	0	0	0	0	0	0	0	0	0	2	1.65	0.00	0.00	1.65	0.0	0.0	
TOTAL **	2347	1	11	0.63	0.94	0.84	3	0	1	11	1	12	34	170	34	171	3	22	2.90	1.02	0.94	1.87	14.5	14.6
DST																								
DIST CENTERS	199	0	2	1.01	2.01	1.67	0	0	0	2	0	2	0	15	0	15	0	2	4.02	2.01	2.01	2.01	15.1	15.1
DITZLER MHSE	263	0	0	0.78	0.00	0.00	0	0	0	0	0	4	0	0	0	43	0	5	6.82	3.03	0.00	3.79	0.0	32.6
INDL. SALES	360	0	0	0.00	0.00	0.00	2	0	0	0	0	0	0	0	0	0	0	2	1.11	0.00	0.00	1.11	0.0	0.0
REFINISH SLS	262	0	1	0.78	0.76	0.78	0	0	0	1	0	1	0	32	80	153	0	3	3.05	0.76	0.76	2.29	24.4	116.6
TOTAL **	1085	0	3	0.60	0.55	0.53	3	0	0	3	0	7	0	47	80	211	0	12	3.50	1.29	0.55	2.21	8.7	38.9
TOTAL **	3433	1	14	0.62	0.82	0.74	6	0	1	14	1	19	34	217	114	382	3	34	3.09	1.11	0.82	1.98	12.6	22.3
DIV TOTAL **	10592	1	21	0.48	0.40	0.62	455	0	1	21	2	65	310	926	401	1593	5	94	3.00	1.23	0.40	1.77	17.5	30.1

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PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 0
HOURS- 0

COATINGS & RESINS DIV CAN OPER

	HRS YTD (000)	NSC CASES MO	NR	***** GOAL	NSC RATE CURR	***** 3 YR	COST YTD (000)	D T	** H. NO	LW AN	CASES MO	** TOTAL YR	*** MO	DAYS AN	YR	LOST MO	**** TOTAL YR	NF CASES MO	NR	***** RC	INCIDENCE LW	RATES AN	***** NF	ANDL	TDL
MANUFACTURE	488	0	1	0.40	0.41	1.13	6	0	0	1	0	1	0	6	27	33	1	8	3.69	0.41	0.41	3.28	2.5	13.5	
CLARKSON	269	0	1	0.69	0.74	1.96	36	0	0	1	0	1	0	4	0	4	0	5	4.45	0.74	0.74	3.71	3.0	3.0	
TORONTO																									
TOTAL **	757	0	2	1.01	0.53	1.43	42	0	0	2	0	2	0	10	27	37	1	13	3.96	0.53	0.53	3.43	2.6	9.8	
SALES-DST																									
REGIONS																									
CANADA	159	0	0	0.00	0.00	0.00	8	0	0	0	0	0	0	0	0	0	0	3	3.77	0.00	0.00	3.77	0.0	0.0	
TOTAL **	159	0	0	0.00	0.00	0.00	8	0	0	0	0	0	0	0	0	0	0	3	3.77	0.00	0.00	3.77	0.0	0.0	
DST																									
DST CIR CAN	73	0	1	2.47	2.71	1.24	3	0	0	1	0	1	0	10	0	10	0	3	10.85	2.71	2.71	8.14	27.1	27.1	
TOTAL **	73	0	1	2.47	2.71	1.24	3	0	0	1	0	1	0	10	0	10	0	3	10.85	2.71	2.71	8.14	27.1	27.1	
TOTAL **	233	0	1	0.83	0.86	0.42	11	0	0	1	0	1	0	10	0	10	0	6	6.01	0.86	0.86	5.15	8.6	8.6	
67 DIV TOTAL **	990	0	3	0.97	0.61	1.25	54	0	0	3	0	3	0	20	27	47	1	19	4.44	0.61	0.61	3.83	4.0	9.5	

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SL 103279

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 2,905 R & D
HOURS- 8,725,329 WORKS NO. 53

FIBERGLASS DIVISION

	HRS		NSC		*****		NSC *****		COST D		** LN CASES **		*** DAYS		LOST ****		HF		***** INCIDENCE RATES *****					
	YTD	CASES	MO	YR	GOAL	RATE	3 YR	YTD T	H. MO	YR	MO	YR	MO	YR	MO	YR	MO	YR	RC	LN	AW	NF	ANDL	TDL
MANUFACTURE																								
WORKS NO. 52	3076	0	1	0.14	0.07	0.21	113	0	0	1	8	126	84	118	337	1272	8	61	12.16	8.19	0.07	3.97	7.7	82.7
WORKS NO. 53	2767	0	0	0.13	0.00	0.10	43	0	0	0	20	114	0	0	265	1457	3	35	10.77	8.24	0.00	2.53	0.01	05.3
WORKS NO. 56	8	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0
TOTAL **	5852	0	1	0.13	0.03	0.15	157	0	0	1	28	240	84	118	602	2729	11	96	11.48	8.20	0.03	3.28	4.0	93.3
R & D																								
ALL LOC.	276	0	0	0.00	0.00	0.21	5	0	0	0	0	0	0	0	0	0	0	4	2.90	0.00	0.00	2.90	0.0	0.0
TOTAL **	276	0	0	0.00	0.00	0.21	5	0	0	0	0	0	0	0	0	0	0	4	2.90	0.00	0.00	2.90	0.0	0.0
DIV TOTAL **	6128	0	1	0.13	0.03	0.16	163	0	0	1	28	240	84	118	602	2729	11	100	11.10	7.83	0.03	3.26	3.9	89.1

DTH = DEATH
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TDL = TOTAL DAYS LOST

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SL 103280

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 3,718 BARBERTON
HOURS- 5,291,265 CARIBE

CHEMICAL GROUP ALL OPER.

	HRS YTD (000)	NSC CASES MO	NSC YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST D YTD T (000)	** H.NO	LW AW	CASES YR	***** TOTAL	***** DAYS MO	LOST YR	***** TOTAL	***** CASES MO	***** YR	***** RC	INCIDENCE LW	RATES AW	***** HF	***** ANDL	***** TDL	
MANUFACTURE																							
BARBERTON	1957	0	5	0.31	0.51	0.24	149	0	0	5	4	79	0	126	243	1294	5	65	14.71	8.07	0.51	6.64	12.9132.2
BEAUMONT	412	0	1	1.11	0.49	2.04	0	0	0	1	3	25	0	18	52	303	0	6	15.04	12.13	0.49	2.91	8.7147.0
BEAUMONT	709	0	0	0.73	0.00	0.70	154	0	0	0	2	20	0	0	134	420	1	1	5.92	5.64	0.00	0.28	0.0118.4
KALIAM	393	0	5	0.52	2.54	0.38	0	0	0	5	0	5	0	75	0	75	0	1	3.05	2.54	2.54	0.51	38.1 38.1
LA PORTE	192	0	0	1.03	0.00	3.29	20	0	0	0	2	6	0	0	86	94	0	6	12.46	6.23	0.00	6.23	0.0 97.6
LAKE CHARLES	4521	0	16	0.28	0.71	0.45	252	0	0	16	6	58	0	367	142	1468	1	14	3.18	2.57	0.71	0.62	16.2 64.9
NATRIUM	1645	0	0	0.38	0.00	0.32	58	0	0	0	1	3	0	0	3	22	0	10	1.58	0.36	0.00	1.22	0.0 2.7
STOCKERTON	65	0	0	2.86	0.00	1.40	0	0	0	0	0	1	0	0	0	1	0	0	3.07	3.07	0.00	0.00	0.0 3.1
WOODWARD	52	0	0	4.22	0.00	0.00	1	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
TOTAL **	9950	0	27	0.39	0.54	0.51	635	0	0	27	18	197	0	586	660	3677	7	103	6.03	3.96	0.54	2.07	11.8 73.9
R & D																							
BARBERTON	477	0	0	0.00	0.00	0.00	0	0	0	0	0	4	0	0	0	10	0	4	3.35	1.68	0.00	1.68	0.0 4.2
CHICAGO	152	0	0	0.00	0.00	1.22	0	0	0	0	0	0	0	0	0	0	0	3	3.93	0.00	0.00	3.93	0.0 0.0
CORPUS CHRIS	262	0	1	0.00	0.76	0.00	0	0	0	1	0	1	0	3	0	3	0	0	0.76	0.76	0.76	0.00	2.3 2.3
TOTAL **	892	0	1	0.00	0.22	0.16	1	0	0	1	0	5	0	3	0	13	0	7	2.69	1.12	0.22	1.57	0.7 2.9
SALES-DST																							
AGRICULTURE	118	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
TOTAL **	118	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
SALES																							
SLS-DST																							
STANCHEN	276	0	3	0.00	2.17	0.71	0	0	0	3	0	4	0	21	0	25	0	3	5.06	2.89	2.17	2.17	15.2 18.1
US SLS-DST	280	0	0	0.00	0.00	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
CARIBE	74	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
TOTAL **	632	0	3	0.00	0.95	0.29	0	0	0	3	0	4	0	21	0	25	0	3	2.21	1.27	0.95	0.95	6.6 7.9
GROUP TOTAL **	11593	0	31	0.37	0.53	0.46	637	0	0	31	18	206	0	610	660	3715	7	113	5.50	3.55	0.53	1.95	10.5 64.1

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SL 103281

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 3,718 BARBERTON
HOURS- 4,509,787 BARBERTON

INDUSTRIAL CHEMICAL DIVISION

	HRS YTD (000)	NSC CASES MO	YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST D YTD T (000) U	MO	** IN YR	CASES MO	** TOTAL YR	*** AM MO	DAYS YR	LOST MO	***** TOTAL YR	NF CASES MO	YR	***** RC	***** LW	***** AN	***** NF ANDL	***** TDL	
MANUFACTURE																							
BARBERTON	1957	0	5	0.31	0.51	0.24	149	0	0	5	4	79	0	126	243	1294	5	65	14.71	8.07	0.51	6.64	12.9132.2
BEAUMHARNOIS	412	0	1	1.11	0.49	2.04	0	0	0	1	3	25	0	18	52	303	0	6	15.04	12.13	0.49	2.91	8.7147.0
BEAUFONT	709	0	0	0.73	0.00	0.70	154	0	0	0	2	20	0	0	134	420	1	1	5.92	5.64	0.00	0.28	0.0118.4
LAKE CHARLES	4521	0	16	0.28	0.71	0.45	252	0	0	16	6	58	0	367	142	1468	1	14	3.18	2.57	0.71	0.62	16.2 64.9
NATRIUM	1645	0	0	0.38	0.00	0.32	58	0	0	0	1	3	0	0	3	22	0	10	1.58	0.36	0.00	1.22	0.0 2.7
TOTAL **	9246	0	22	0.37	0.48	0.47	614	0	0	22	16	185	0	511	574	3507	7	96	6.08	4.00	0.48	2.08	11.1 75.9
R & D																							
BARBERTON	477	0	0	0.00	0.00	0.00	0	0	0	0	0	4	0	0	0	10	0	4	3.35	1.68	0.00	1.68	0.0 4.2
CORPUS CHRIS	262	0	1	0.00	0.76	0.00	0	0	0	1	0	1	0	3	0	3	0	0	0.76	0.76	0.76	0.00	2.3 2.3
TOTAL **	740	0	1	0.00	0.27	0.00	1	0	0	1	0	5	0	3	0	13	0	4	2.43	1.35	0.27	1.08	0.8 3.5
SALES																							
SLS-DST																							
STANCHEN	276	0	3	0.00	2.17	0.71	0	0	0	3	0	4	0	21	0	25	0	3	5.06	2.89	2.17	2.17	15.2 18.1
US SLS-DST	280	0	0	0.00	0.00	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
TOTAL **	557	0	3	0.00	1.08	0.44	0	0	0	3	0	4	0	21	0	25	0	3	2.51	1.43	1.08	1.08	7.5 9.0
DIV TOTAL **	10544	0	26	0.32	0.49	0.44	615	0	0	26	16	194	0	535	574	3545	7	103	5.63	3.68	0.49	1.95	10.1 67.2

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SI 103282

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME DIVISIONAL RECORD
DAYS- 2,414 CARIBE
HOURS- 5,172,172 CARIBE

AGRICULT & PERFORM CHEM DIV

	HRS YTD (000)	NSC CASES MO	NSC YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST D YTD T (000) H	D MO	** AN	LN YR	CASES ** TOTAL MO	** YR	*** AM	DAYS MO	LOST YR	**** TOTAL MO	**** YR	NF CASES MO	NF YR	***** RC	INCIDENCE LN	RATES AM	***** NF	***** ANDL	***** TDL
MANUFACTURE																									
KALION	393	0	5	0.52	2.54	0.38	0	0	0	5	0	5	0	75	0	75	0	1	3.05	2.54	2.54	0.51	38.1	38.1	
LA PORTE	192	0	0	1.03	0.00	3.29	20	0	0	0	2	6	0	0	86	94	0	6	12.46	6.23	0.00	6.23	0.0	97.6	
STOCKERTOWN	65	0	0	2.86	0.00	1.40	0	0	0	0	0	1	0	0	0	1	0	0	3.07	3.07	0.00	0.00	0.0	3.1	
WOODWARD	52	0	0	4.22	0.00	0.00	1	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0	
TOTAL **	704	0	5	1.03	1.42	1.06	21	0	0	5	2	12	0	75	86	170	0	7	5.39	3.41	1.42	1.99	21.3	48.3	
R & D																									
CHICAGO	152	0	0	0.00	0.00	1.22	0	0	0	0	0	0	0	0	0	0	0	3	3.93	0.00	0.00	3.93	0.0	0.0	
TOTAL **	152	0	0	0.00	0.00	1.22	0	0	0	0	0	0	0	0	0	0	0	3	3.93	0.00	0.00	3.93	0.0	0.0	
SALES-DST																									
AGRICULTURE	118	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0	
TOTAL **	118	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0	
SALES																									
CARIBE	74	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0	
TOTAL **	74	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0	0.0	
DIV TOTAL **	1049	0	5	0.76	0.95	0.73	21	0	0	5	2	12	0	75	86	170	0	10	4.19	2.29	0.95	1.91	14.3	32.4	

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ST 103283

PPG INDUSTRIES INC.
SAFETY SYSTEM
RECORDABLE WORK INJURY/ILLNESS REPORT
DECEMBER 1981

ALL TIME CORPORATE RECORD
DAYS- 3,773
HOURS- 8,447,386 WORKS NO. 7

SUMMARY(US OPER.)

	HRS YTD (000)	HSC CASES MO YR	***** GOAL	NSC RATE CURR	***** 3 YR	COST YTD (000)	0 H.NO	** H.NO	LW YR	CASES MO	** YR	*** TOTAL	DAYS MO	LOST YR	**** TOTAL	HF CASES MO YR	***** RC	INCIDENCE LW	RATES AN	***** NF	AWDL	TDL
MANUFACTURE																						
FIBERGLASS	5852	0 1	0.13	0.03	0.15	157	0	0	1	28	240	84	118	602	2729	11	96	11.48	8.20	0.03	3.28	4.0 93.3
CHEMICAL	9144	0 21	0.37	0.46	0.45	635	0	0	21	15	167	0	493	608	3299	7	96	5.75	3.65	0.46	2.10	10.7 72.2
COATINGS&RES	6060	0 7	0.46	0.23	0.61	437	0	0	7	1	44	276	709	287	1186	2	48	3.04	1.45	0.23	1.58	23.4 39.1
GLASS	19282	3 44	0.34	0.48	0.39	1236	0	3	44	8	163	304	1688	475	4291	14	338	5.48	1.78	0.48	3.70	18.4 46.9
TOTAL **	39339	3 73	0.35	0.37	0.40	2467	0	3	73	52	614	664	3008	1972	11505	34	578	6.06	3.12	0.37	2.94	15.3 58.5
R & D																						
FIBERGLASS	276	0 0	0.00	0.00	0.21	5	0	0	0	0	0	0	0	0	0	0	4	2.90	0.00	0.00	2.90	0.0 0.0
CHEMICAL	892	0 1	0.00	0.22	0.16	1	0	0	1	0	5	0	3	0	13	0	7	2.69	1.12	0.22	1.57	0.6 2.9
COATINGS&RES	1098	0 0	0.18	0.00	0.36	11	0	0	0	0	2	0	0	0	25	0	12	2.55	0.36	0.00	2.19	0.0 4.6
GLASS	802	0 1	0.25	0.25	0.08	3	0	0	1	0	1	0	5	0	5	1	8	2.24	0.25	0.25	1.99	1.2 1.2
TOTAL **	3070	0 2	0.13	0.13	0.22	22	0	0	2	0	8	0	8	0	43	1	31	2.54	0.52	0.13	2.02	0.5 2.8
SALES DST-AD																						
GENERAL OFF.	5117	0 5	0.15	0.20	0.13	15	0	0	5	0	6	80	286	80	336	0	6	0.47	0.28	0.20	0.23	11.1 13.1
CHEMICAL	399	0 0	0.00	0.00	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.0 0.0
COATINGS&RES	3433	1 14	0.62	0.82	0.74	6	0	1	14	1	19	34	217	114	382	3	34	3.09	1.11	0.82	1.98	12.6 22.3
GLASS	6267	4 78	2.10	2.49	2.36	1504	1	4	77	4	78	1115	1491	1115	1494	25	208	9.16	2.49	2.46	6.64	47.5 47.7
TOTAL **	15217	5 97	1.53	1.27	1.16	1526	1	5	96	5	103	1229	1994	1309	2212	28	248	4.63	1.35	1.26	3.26	26.2 29.1
DIVISIONS																						
FIBERGLASS	6128	0 1	0.13	0.03	0.16	163	0	0	1	28	240	84	118	602	2729	11	100	11.10	7.83	0.03	3.26	3.9 89.1
GENERAL OFF.	5117	0 5	0.15	0.20	0.13	15	0	0	5	0	6	80	286	80	336	0	6	0.47	0.23	0.20	0.23	11.2 13.1
CHEMICAL	10436	0 22	0.32	0.42	0.42	637	0	0	22	15	172	0	496	608	3312	7	103	5.27	3.30	0.42	1.97	9.5 63.5
COATINGS&RES	10592	1 21	0.48	0.40	0.62	455	0	1	21	2	65	310	926	401	1593	5	94	3.00	1.23	0.40	1.77	17.5 30.1
GLASS	25352	7 123	0.85	0.97	0.80	2745	1	7	122	12	242	1419	3184	1590	5790	40	554	6.29	1.91	0.96	4.37	25.1 45.7
TOTAL **	57626	8 172	0.55	0.60	0.57	4016	1	8	171	57	725	1893	5010	3281	13760	63	857	5.49	2.52	0.59	2.97	17.4 47.8

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SI 103284