

1984

ANNUAL

SAFETY & HEALTH

REPORT



SL 103441

FOREWORD

This report is in three parts; the 1984 Report, 1984 Accomplishments, and a statistical review with charts.

Reporting are:

All the Corporation's U.S. and Canadian Plants	51 Units
All the Corporation's U.S. Research & Development Centers	5 Units
All the Corporation's U.S., Canadian & Caribe Sales, C&D, Distribution Outlets, and Administrative Offices	<u>30 Units</u>
TOTAL	86 Units

The Canadian Glass operations were added into the reporting in 1984. The Divisional distinctions (Flat Glass, Industrial Chemicals, etc.) were dropped and only the group designations are used. As a result of this, the divisional rate charts were dropped but rate charts for each type of recordable case by group were added. Two new charts are included detailing Total Recordable Cases and Workdays Lost. A detailed operations summary is also included showing the statistical breakdown between the U.S. and Canada.

Your comments concerning the format or content of this report are welcome. Send these to Ralph L. Miller, Manager, Corporate Safety, 12 South, One PPG Place.

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PART I - 1984 REPORT

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OVERVIEW

The reduction of occupational injuries 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 65 years to 1919 when we were experiencing 20 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 0.46. (See Rate Chart pg. 25.)

A closer examination of our experience in the last ten years shows the rate decreasing from 0.56 in 1975 to 0.53 in 1977 then increasing back up to 0.62 by 1981. However, 1983 and 1984 showed consecutive reductions to the current rate of 0.46. This is down 26% from the 10-year peak rate in 1981. The rate chart on page 27 shows an overall downward trend for the last ten years due primarily to the good performance in the last two years. The slope of this trend line is now downward after several years of being slightly upward or flat.

The performance of the manufacturing segment of the business has been up and down over the last four years. However, the 1984 rate of 0.31 was down substantially and was the lowest in the last ten years. Referring again to the chart on page 27, the manufacturing rate trend is also down when considering all of the last ten years.

ALL EMPLOYEES WHO HAVE CONTRIBUTED TO THIS ACHIEVEMENT ARE TO BE CONGRATULATED.

<u>Year</u>	<u>Corporate NSC Incidence Rate</u>		<u>Mfg. Segment NSC Incidence Rate</u>	
1981	0.62		0.40	 NO TREND
1982	0.62		0.34	
1983	0.54		0.41	
1984	0.46		0.31	

SAFETY PERFORMANCE GOALS

Goals for Safety Performance were established in 1969. The record shows that the Corporate goal was not achieved in any year until 1984. Our year end performance of 0.46 against the 0.47 goal marks the first time we have achieved our Corporate safety objective.

CONGRATULATIONS! AND SPECIAL CONGRATULATIONS ARE IN ORDER FOR THE FIBER GLASS OPERATIONS FOR WORKING THE ENTIRE YEAR WITHOUT A DISABLING INJURY, THE CHEMICALS GROUP FOR POSTING AN NSC RATE OF 0.11 AND THE C&D PORTION OF GLASS FOR AN OUTSTANDING REDUCTION IN INJURIES CONTINUING THEIR DOWNWARD TREND OF THE LAST TWO YEARS.

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OUTSTANDING SAFETY RECORD

The Lexington, North Carolina Fiber Glass plant broke the all time Corporate record in 1982. During 1983 and 1984, they have kept the record going and by the close of the year, completed 17,357,996 work hours without a disabling injury. This record continued into 1985.

CONGRATULATIONS TO ALL THE EMPLOYEES AT THE LEXINGTON, NORTH CAROLINA FIBER GLASS PLANT.

ANALYSIS OF 1984 DEATHS AND DISABLING INJURIES

The corporation experienced one fatality. An employee fell from a swing stage as he was getting off when one side of the stage was inadvertently disconnected.

During 1984, 140 other employees suffered disabling injuries which resulted in 3,655 days lost. (See pgs. 28 to 30 for breakdowns.) This averaged 26 days per injury which was down 35% from the 40 days per injury in 1983.

"Strains and Sprains" once again accounted for the largest number of disabling injuries, 31%. This, however, was down 4% from 1983. Of these cases, three-fourths were back injuries. "Struck By" injuries accounted for 26% and "Falls" 19%. This is the same order as 1983 and the percentages about the same.

Three hundred and sixty-two other injuries required some restriction in the worker's activity so that he could not perform all the duties of his or her regularly scheduled job. These cases were up slightly (4%) over 1983.

Rates are established for each of the three types of injuries: AW's (disabling injuries), RA's (restricted activity), and NF's (non-fatal or medical treatment cases). These rates are plotted on pages 32 to 37 and show the total corporation and each of the three groups performance.

Referring to page 31, the corporation experienced a total of 1,216 recordable cases made up of AW's, RA's, and NF's. Of these Recordable Cases, Glass sustained 837, C&R 248, and Chemicals 121. Ten others occurred to G.O. employees.

Many of these cases result in lost workdays. Adding the days lost away-from-work due to disabling injuries to the restricted activity workdays lost, the Corporation experienced 9,072 days of lost productivity where the employee was unable to do his regularly scheduled job. This amounts to roughly 36 man years where the jobs had to be filled with substituted, retrained, or overtime employees. This is also down 18% over 1983. A plot of the breakdown of these days appears on page 32.

LOSS PREVENTION COSTS AND ANALYSIS

In 1984 PPG experienced \$6,418,924 in direct costs associated with occupational injuries and illnesses. This is up 7.5% over 1983. (See the Dollar Loss Summary and pie charts on pages 38 to 43.)

During 1984 it took about \$8 worth of sales to generate the profit to cover every dollar in injury costs. This means that more than \$51 million of sales were produced to cover our occupational injury and illness costs. This is without consideration for the indirect costs such as replacement personnel, overtime pay, costs for training or operating dispensaries. The National Safety Council estimates these indirect costs at four times the direct costs.

Conversely, the latest statistics from the National Safety Council (1983) show that the average disabling injury rate for all industries was 2.20. However, the Council also reports that the chemical industry rate was 0.53 and for the stone, clay and glass industry, it was 3.20. A weighted average of these two based on PPG's work hours would result in a national rate of 2.09. If we would have experienced this weighted average rate in 1984, we would have had 496 more disabling injuries. Translating this into PPG costs on the same basis used above, PPG would have spent about \$29 million on direct injury and illness costs. Thus, our Safety and Health programs "saved" the Company at least \$23 million and the need to generate an additional \$184 million in sales by performing better than the average of our industrial counterparts.

Under the Corporate Asset Protection Program "CAPP", losses to assets and paid insurance premiums totaled \$7,444,209. Vehicle accidents and insurance premiums totaled \$1,501,735. Adding these to the injury and illness costs, PPG spent \$23,957,925 on "losses". Using the same sales basis above, \$192 million in sales were produced in 1984 to cover all these losses.

PPG is not "perfect", however, and it is recognized that all these costs cannot be saved, but the potential exists to save a large portion with improved safety and loss prevention programs. For injury and illness costs, 85% of the costs were controllable (see pg. 39). The potential also exists for increased costs if our programs slip.

SAFETY PERFORMANCE AWARDS

PPG recognizes outstanding safety performance in several ways: long periods of time that reporting units operate without a death or disabling injury; operating a calendar year without a death or disabling injury or a significant improvement in their safety record; and the "President's Challenge" recognizes units that meet or exceed their safety goals that are aimed at injury reduction. The corporation also recognizes any employee that saves a person's life while on the job. (Note summaries on pages 44 to 48.)

Thirteen reporting units received awards for operating extended periods of time without a death or disabling injury--topped by Carlisle winning the President's award after 885 days. Forty-four units operated the entire year without a death or disabling injury. The Ditzler Warehouses accomplished their 12th consecutive year, and the Lexington, North Carolina fiber glass plant finished their fifth consecutive year as did the Fiber Glass Research Center. The Presidents Safety Challenge recognized 57 other reporting units for meeting or exceeding their safety goals to reduce injuries. Two employees were honored for saving another person's life.

Nineteen PPG locations were honored by the National Safety Council for their outstanding performance when compared to their industrial counterparts and their own record for improved safety performance.

OSHA INSPECTION EXPERIENCE

During 1984, OSHA Compliance Officers conducted 64 inspections at PPG locations. (See summaries on pgs. 49 & 50.) We have been experiencing an average of 45 inspections a year since 1971. Sixty-four inspections are exceptionally high for a single year and is probably the result of the targeting program where inspections are aimed at the high hazard sites. In this regard the C&D portion of our Glass operations received 42 of the 64 inspections.

The most often cited reason for inspection was "routine"--72%. Again, this is probably due to the targeting program. "Employee Complaints" were only 5 of the 64 which is down significantly from previous years.

The corporation has incurred a total of \$60,189 in penalties since 1971 with \$5,670 of that experienced in 1984.

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PART II - 1984 ACCOMPLISHMENTS

CORPORATE SAFETY & LOSS PREVENTION ACCOMPLISHMENTS

Program Development

Three revisions were made to the Resources Protection Manual including a major revision to the section detailing Company policy on the classification of injuries and illnesses.

All the award programs were continued including the "President's Challenge." A comprehensive program for unit and individual employee recognition was developed along with a theme and new plaque design and was made available to the Groups. The theme and plaque design were added into the corporate program.

The Corporate Fire Protection function was restructured. Group Safety personnel will handle the day-to-day activities with Corporate Safety maintaining oversight. Fire schools will be handled by the C&R Group and the services of Johnson & Higgins personnel (our broker) will be used to coordinate engineering reviews and keep Corporate Safety informed.

The Fire Marshal organization, Fire Drills, Emergency Procedures, and a method to handle safety problems at PPG Place were developed and implemented. Two emergencies including a total power failure were handled satisfactorily. A Safety Shoe and a Safety Glasses sale was held for G.O. employees along with a Seat Belt promotion using "The Convincer." Numerous information and orientation tours of the complex were conducted.

The Corporate Vehicle Safety Committee was organized and began functioning in 1984. Several issues were worked on during the year including specifications for Company owned or leased vehicles, a Seat Belt Campaign for 1985 and a new driver training program called "Commentary Drive."

Reporting

The monthly Occupational Injury & Illness Report was removed from the "main frame" computer and put on the departmental personal computer saving considerable expense. The turnaround time to complete the report was reduced to the day after field reports are due. The Canadian Glass Operations were added to this report to complete reporting for all U.S. and Canadian Operations. Work was started on collecting International Safety and Health data for this report.

Regular reports were continued for the President and the Board of Directors and the Environmental Affairs Committee. External reports to the National Safety Council et. al. were also continued.

Evaluations

As noted on the visitation matrix (pages 51 to 53), Corporate and Group Safety & Health personnel made formal safety evaluations and visits to most of the corporation's locations in 1984. Reports on these evaluations noted strengths and weaknesses to provide guidance for the continued development

of local safety programs. Group staffs conducted most of these. However, the corporate staff participated in several Safety, Health and Medical evaluations. The Corporate Safety staff investigated the fatality.

Coordination

The Corporate Manager of Safety chaired the Safety Coordinating Committee and served as secretary to the Employee Health & Safety Subcommittee. Policies and procedures, along with other safety issues, were continually reviewed and updated through these intergroup committees.

Government Interaction

Input was provided to OSHA on their proposed changes to the recordkeeping system. Two other responses were made during the year. The Corporate Manager of Safety continued membership with and attendance at the Organizational Resources Counselors meetings to remain up to date on government activity in the OSHA and NIOSH areas.

CORPORATE HEALTH AND TOXICOLOGY ACCOMPLISHMENTS

Quality Assurance of Health Programs

A comprehensive audit questionnaire covering all applicable federal, state and local standards and PPG policies and procedures was developed and approved by the Law Department. Four PPG plant locations were audited in 1984. Two were Coatings and Resins facilities and one each in the Chemicals and Glass Groups. A pre-audit information checklist and an audit agenda were developed. Eight health audits are scheduled in 1985 and these will be performed jointly with medical and environmental audits where possible.

The Shelby and Lexington, NC Fiber Glass facilities were visited to become familiar with the operation and health programs.

Coordination

The Health Coordinating Committee (HCC) addressed (1) the development of a draft Health Care Policy Statement, (2) specifically reviewed the latest toxicological data on glycol ethers, ethylene oxide, various chloroformates, ethylene dibromide, hydrogen fluoride and the ACGIH threshold limit values with the proposed deletion of some short-term exposure limits, (3) amended the PPG Occupational Noise Exposure: Hearing Conservation Interpretive Guidelines and (4) provided written comments on OSHA proposed standards.

Coauthored the draft publication of "Effects of Low Level Exposures to Chlorine" with Dr. K. Wilson of Methodist Hospital.

Government and Industry

PPG assumed the leadership role in performing comprehensive audits of the National Toxicology Program (NTP) carcinogenesis bioassays for the Halogenated Solvent Industry Alliance (HSIA). The 1,1,1-Trichloroethane Audit report was prepared and released to the government, the preliminary audit findings of the trichloroethylene bioassay were presented to NTP and the tetrachloroethylene study audited in 1984. The audits revealed studies performed for NTP were poorly conducted and seriously flawed. The HSIA audits have resulted in an investigation by the Government Accounting Office (GAO) of NTP and the contract laboratories performing the studies.

Participated in search of a logical evaluation procedure to determine reproductive and developmental toxicity potential effects of various chemicals through input to industry, government and association committees.

Assisted in the development of position papers relative to the chlorinated solvents presented before the EPA Science Advisory Board. Performed critiques of Health Assessment Documents (HAD) prepared by EPA to determine if these solvents should be listed as hazardous air pollutants under Section 112 of the Clean Air Act. As Chairman of the Chemical Manufacturers Association (CMA), participated in the preparation of comments on the EPA Vinylidene Chlorine HAD and the proposed recommended maximum concentration levels (RMCL's) in drinking water. Organized under CMA a toxicology audit team and performed an audit of the National Cancer Institute sponsored carcinogenesis bioassay for ethylene dichloride.

Successfully obtained approval of PPG and Ferro Corporation's Voluntary Testing Program for dioxolane under EPA's TSCA Section 4 Testing requirements. Was successful in getting the California Occupational Safety and Health Department to raise the permissible exposure limits established three years earlier for trichloroethylene.

The Law Department was assisted concerning third party litigation cases and two depositions were provided.

The Bush Run Toxicology Laboratory and the Gulf Science Laboratories were reviewed in 1984.

CORPORATE SECURITY ACCOMPLISHMENTS

Program Development

Assistance, counsel and monitoring of PPG Place security program and related matters was provided to PPG and Oliver Realty building management groups.

Assistance was provided to Glass Engineering, the PPG Place Construction Team and Glass Construction Group on security matters, equipment and technical data.

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Deficiencies in certain systems in the PPG Place Tower and Building Two control and safety systems were corrected. Others are still being worked on with expectation they will be resolved in early 1985.

Assisted C&R Group with development of contract security bid specifications to be used at plants.

Recommendations made to improve C&R plant security installations were converted to standards and disseminated to the plants.

Provided special security and assistance on two research projects.

Training

Trouble shooting/service instructions and listing of maintenance tips for the PPG Place card access system was prepared and given to Oliver Realty, Glass Engineering and C&R Allison Park Research Center.

Trained two Oliver Realty management persons and Tower Command Center Operators on use, functions, programming and troubleshooting techniques for the PPG Place card access system.

Provided information and training materials to Glass Engineering and C&R Research on protection of proprietary information.

Conducted training session for Purchasing Department personnel on security, safety and fire protection.

Gave a presentation on security concerns to C&R Safety & Health Conference attendees.

Trained a C&R staff member on bomb and arson considerations and formulation of a training program to be given at C&R Fire Schools.

Provided training materials to Oliver Realty management dealing with bomb threats, procedures, search techniques, etc.

Gave a security presentation at the Chemicals Group Safety & Health Conference.

Presented a training and information session on security/access control planning and implementation to Mobay Chemical Corporate Executives at request of a Sr. Vice President and presented a similar session to representatives of Duquesne Light Company at their request.

Recommended certain training for Aircraft Department personnel.

Recommended Oliver Realty managers attend a seminar entitled, "Law for Security Managers", primarily from merchant and tenant perspective. Two persons attended the seminar.

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Special Assignments and Field Evaluations

At Management's request, numerous investigations were conducted involving C&D strike and vandalism problems, theft of gold chloride, theft of communications, alleged leaks of bid prices, misuse of a C&R product, production slow downs, sabotage, threats to P&M employees, damage to plant property, alleged thefts of windshields and glass, attempt by an outsider to get into the corporate computer using a PC, minor theft and recovery of platinum, alleged drug use at two PPG facilities, contract security agencies, bomb threats and harassment by telephone of employees in the General Office and one field facility. Also arranged for a number of Workers' Compensation investigations at field locations.

Security reviews were conducted at C&R Research facilities, Houston C&R plant, Fiber Glass Technical Center, Aircraft Department and PPG Place Garage.

Counsel and assistance was provided to numerous field locations involving radio systems, alarm systems and security procedural matters.

A special CCTV camera/video tape equipment arrangement recorded two employees on the late shift using a C&R plant maintenance superintendent's office to place bets all over the country by telephone and sleep. Employees were terminated.

Numerous purchase requisitions forwarded by Purchasing Department for review involving purchase of communication equipment, CCTV, security services and equipment were reviewed and approved for purchase.

Coordination

Counsel and assistance was provided to Group and Staff Departments on security matters and problems. A number of precious metal and tin movements were coordinated with Purchasing, plants, research centers and Corporate Trucking without incident or loss. Coordination of certain investigations with the Law Department and internal auditing was accomplished. Assistance was provided to field operations providing contacts and suppliers for security needs including arrangements for quotations on projects in conjunction with Purchasing. Certain problems involving the Corporate Computer Center, Oliver Realty and PPG Management Groups were resolved.

Assisted all parties involved in the "PPG Place Open House" and Shareholders Meeting. Assisted Law Department and several field locations with obtaining FCC radio frequencies.

Coordination of State Department, FBI, PPG and private security efforts involving travel to foreign countries, particularly Poland and the Soviet Union was accomplished. Cooperation and assistance were provided to U.S. federal/state/local law enforcement groups, international agencies and the private corporate security sector.

Reporting

Management was kept informed of matters affecting Corporate and field operations security, both domestic and foreign. Special requests from Glass and Chemical Groups concerning political and terrorist activities in certain countries along with travel considerations was obtained and transmitted to requestors.

GLASS GROUP ACCOMPLISHMENTS

Safety

A Glass Group Safety, Health and Environmental Conference was conducted June 18-21, 1984. In addition to plant SH&E supervisors, management representatives from the plants, Commercial Products and Distribution, and General Office were in attendance.

Several training and informational sessions were presented to management personnel of the Commercial Products and Distribution group.

A total of 96 safety inspections of field operations were conducted by Group and plant safety personnel.

The Glass Group responded impressively to the President's Challenge in 1984. Of the 40 reporting units, 30 met or bettered their goals for the year.

The Lexington plant (with over 17 million work hours) and the Fiber Glass Research Center completed their fifth consecutive year without an away-from-work injury. In addition to these excellent performances, the Carlisle float glass plant qualified for the President's Award.

We experienced over 60 OSHA inspections with the majority occurring in the assistance of Marsh & McLennan. We were also successful in several states with our efforts to be reimbursed from the state funds on cases that exceeded the mandated maximum payments.

With the assistance of General Office Engineering, all away-from-work cases are being reviewed for possible changes in equipment, layout or procedures.

To stimulate outside contractors to the level of PPG's safety awareness, the Glass Group participated in developing a Pre-Qualification Information Sheet. In addition, G.O. Engineering is developing a Glass Group Contractors' Safety Manual to eliminate duplication of efforts.

Added safety program emphasis was stimulated by "safety" days at the Lexington and Shelby plants.

Health

Industrial hygiene input was provided to Glass R&D and production facilities regarding the health concerns of the Reaction Injection Molding (RIM)

project. A sampling program for this project was established at Glass R&D with analysis conducted at the C&R Industrial Hygiene Laboratory.

The UV curable ink project was transferred into production at Works 27. Employee training regarding UV curable inks and respirator training was conducted by the Glass Group Industrial Hygiene staff.

Mobile van testing (chest x-ray and pulmonary function) continued for employees in the asbestos, silica and respiratory protection programs. Facilities utilizing the mobile van in 1984 include Works 5, 7, 8, 25, 26 (a total of 836 employees tested). Works 24 conducted exit physical examinations utilizing the mobile van.

The industrial hygiene staff responded to five OSHA industrial hygiene inspections and one NIOSH visit. This included written responses to specific requests and concurrent sampling.

An industrial hygiene survey was conducted at several Canadian facilities (Oshawa, Hawkesbury, London and Strathroy). Increased industrial hygiene input has been provided to initiate Glass Group programs.

Two TSCA pre-manufacture notifications were completed and approved in conjunction with Glass R&D and Fiber Glass Research products. A TSCA coordinating committee has been established at Glass R&D to evaluate potential new chemical substances.

Glass and metal fab centers and branches are receiving increased industrial hygiene attention primarily regarding potential noise exposures and implementation of the Glass Group Hazard Communication Program.

Noise control work continues with Glass Engineering to achieve noise reductions at Glass tempering facilities. In 1984, three tempering lines were successfully enclosed.

The Creighton demolition project required industrial hygiene and environmental input regarding proper removal and disposal of asbestos-containing materials.

The organic vapor analysis-quality control program continues with the C&R Group. A similar quality control program has been established with the Chemicals Group's Barberton facility.

Glass Group has developed a Hazard Communication Implementation Program to comply with OSHA's Hazard Communication rule. Approximately 11,500 materials used in 23 Glass Group facilities have been identified to date. Although many of these will be duplicates, a program of obtaining up-to-date MSDSs for all of these materials is currently underway. A computer program for handling these, plus all new materials introduced into Glass Group facilities is also under development.

CHEMICALS GROUP ACCOMPLISHMENTS

Safety

1984 was a year of accomplishment. Compared to the previous year, AWC injuries were reduced 58% and re-injuries were reduced by 52%. Objectives were achieved in all categories. The entire group achieved a six-month period without an AWC injury.

Executive Safety Awards were earned by the Barberton Technical Center, Lake Charles, Beauharnois, and Kalium manufacturing. John Brantley, a Lake Charles employee, was awarded the Corporate Life Saving Award.

Safety program reviews were conducted for Kalium manufacturing, Beaumont, Stockertown, STANCHEM Terminals, and the Natrium plant. In addition inspections were made of Sales Offices for New York, Chicago, Houston, and the Chicago SPU facility. Plant visits were also made to Barberton, Lake Charles, and LaPorte.

OSHA activity was moderate. LaPorte was inspected in conjunction with a contractor fatality, and Natrium was inspected as a result of employee complaints about pesticide use by a contractor. PPG did not receive a citation in either case.

Traffic Safety was very active with training sessions arranged for many locations. The Vehicle Safety Committee was formed at mid-year, and a number of man hours were devoted to developing a PPG driver training program and planning a seat belt promotion in 1985.

Loss Prevention activity saw significant losses with a transformer failure in Lake Charles, compressor motor failures in Beaumont, and an explosion aboard the SS Puerto Rican, which resulted in its breaking up off the California coast.

Five training sessions were conducted at Texas A&M University with 37 students in attendance.

A combined Safety and Health Conference was held in conjunction with the Environmental Affairs Department and attendance was good.

Health

The Health and Hygiene Group had many noteworthy accomplishments during 1984. Health/hygiene audits were performed and/or followed up at four Chemicals' facilities. Industrial hygiene surveys were completed at each of four STANCHEM Distribution facilities, at CSA Limited, and at the LaPorte plant. In addition visits were made to several custom manufacturers and customers. Written respiratory protection programs were developed for the Montreal and Toronto Distribution facilities, Michigan Oil and Gas, and the Stockertown plant.

Asbestos control received a great deal of attention. Engineering standards were developed for asbestos decontamination/removal and asbestos tear-down

programs were developed or revised at Barberton, Lake Charles, Natrium, and Woodward. Close surveillance of the Barberton asbestos demolition project, perhaps one of the largest such projects ever tackled in the U.S., was established.

Several group-wide areas of concern were addressed. A compliance plan was developed to address the OSHA Hazard Communication Standard. Implementation by Chemicals' facilities has begun. Further advancements toward the development of an integrated, computerized health/hygiene records system have been made in the areas of audiometric data, chemical inventory and MSDS information, and area/personnel monitoring records. An evaluation of programs currently in use to prevent chemical incidents, such as releases, was prepared. A plan was developed to increase the level of occupational health awareness to that which safety now enjoys. New Medical Procedures Manuals were assembled and distributed within the Chemicals Group.

A joint Health and Safety Conference was held in June. It was well attended and received by plant health and safety personnel.

COATINGS AND RESINS GROUP ACCOMPLISHMENTS

Safety

A C&R Safety and Health Conference was conducted April 8-12, 1984. A variety of safety and industrial hygiene-related presentations were made by outside speakers as well as C&R Group representatives.

Loss control activity within the Trade Sales area centered on developing an awareness program to reduce the incidence of back injuries. The program, which will include printed material and a film, will be presented during 1985. Area administrators will have the responsibility of coordinating this activity. Safety inspections of Trade Sales locations by plant safety personnel or area administrators continued throughout 1984.

Reporting of fleet losses was examined and changes made in the format. These changes will provide better access to information and will allow for the development of additional Group policies to reduce fleet losses. The PPG Corporate Seat Belt Campaign will be incorporated into the overall fleet program.

Due to Marsh & McLennan's decision to drop Workers' Compensation claim handling services, a changeover to The Hartford claims handling was necessitated. Information on this change was provided to all involved locations and necessary assistance was given where needed. Locations self-administering claims will continue as before.

The European facilities were visited during 1984. These visits included meetings with local plant management and plant inspections. During these visits, information was provided to assist the plants in maintaining C&R safety standards. The response from the European operations has been favorable and indicates an increased awareness of the assistance which C&R Group Safety personnel can provide.

The C&R Group continues a strong commitment to firefighter training. Besides the thirty-six C&R employees who attended the basic and advanced Corporate fire school, several locations sent fire brigade members to local or state fire schools. C&R Group Safety staff assumed the administration of the Corporate fire school with assistance and participation of the Glass and Chemicals Groups. Sixty-five employees were trained in firefighting techniques and leadership at the Armstrong County Fire Training facility. The need for the continuation of this type training was demonstrated by the ability of our fire brigades to handle several incidents in our plants over the past year. Plans for two schools in 1985 are being developed.

Safety programs in the Ink facilities continue to be administered by both Group and location personnel. A program developed during 1984 will be implemented in the Fluid Ink Group which will include various campaigns to increase employee awareness.

All new construction and major renovation plans were reviewed to assure that safety problems were not being created. As always, all construction is planned to conform to a Highly Protected Risk fire insurance status. To further reduce the consequences of fire, the policy of retrofitting sprinklers with AFFF in appropriate locations is being implemented.

Health

Overview

The Coatings and Resins Group Occupational Health efforts have emphasized medical programming, environmental sampling, quality assurance, site reviews, and employee communications. Strides have also been made in integrating acquisitions into Group health programming.

Medical Program

The computer-assisted medical monitoring program to be linked with occupational exposure monitoring programs already in place has been implemented at four manufacturing facilities and at the research centers. Three more locations are ready to order equipment. All audiometric testing data for C&R has been computerized and is being used at facilities with equipment in place. Additional software to permit analysis and reporting of data to meet plant/group needs has been developed and will be implemented in 1985.

A C&R medical conference was held for plant physicians and nurses. Key topics were back injuries and ergonomics, pulmonary function testing, audiometric testing, reproductive hazards training, and the computerization of medical and environmental data. Physicians Category I medical credits were awarded to attendees by the AMA.

I.H. Laboratory Services

The C&R Industrial Hygiene Laboratory analyzed approximately 2,900 samples for more than 26,000 discrete analytes. Methods were developed for the determination of airborne concentrations of over twenty additional

materials. The EPA method of determination of purgeable organics in waste water was also validated in support of the environmental monitoring needs.

Management and Employee Awareness

The Group's hazard communication efforts progressed with the assignment of 1,000 new and revised Safety and Health Index System classifications for raw materials.

A statement expanding the PPG policy precluding the use and purchase of asbestos containing material was issued. Plant environmental coordinators were provided with detailed plans for removal and disposal of materials containing asbestos.

C&R Facility Evaluation

In 1984, comprehensive industrial hygiene surveys and program reviews were conducted at nine facilities. Emphasis for coatings and resins plants was on evaluation of industrial hygiene program implementation. Most personal monitoring was focused on activities or contaminants of special interest. Results of routine monitoring for all facilities indicate that the occupational environment is well controlled. Ninety-seven percent of all samples taken had results less than the applicable action levels.

Regulatory Compliance

The C&R Industrial Hygiene Department initiated new programs for ethylene oxide and continued to administer programs for facility compliance with OSHA standards for lead, acrylonitrile, noise, and employee access to information. It detailed compliance actions necessary for adherence to the hazard communication rule. Canadian operations were provided assistance in implementation and maintenance of programs for compliance with Ontario designated substances regulations: isocyanates, silica, asbestos, lead, and mercury.

Engineering

Involvement in the design of new processes and facilities was a major activity for the Industrial Hygiene Department in 1984. Technical assistance was provided in the design and engineering of more than 50 capital projects. Ventilation improvements were engineered for Nashville and Oak Creek.

PART III - STATISTICAL REVIEW WITH CHARTS

DEFINITION OF TERMS

1. AW, Away-From-Work Case - Is any occupational injury or illness 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 was 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 professional 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 an 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 illness 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 occupational injury or illness 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 occupational injury or illness which renders an employee unable to perform all duties of his regularly scheduled job or the employee 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 occupational disabling injuries or illnesses experienced per 100 full-time employees working a full year (2,000 manhours each).

$$(AW) \text{ Incid. Rate} = \frac{\text{Total No. of Disabling Inj. or Ill.} \times 200,000}{\text{Total Workhours}}$$

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

This rate reflects the number of regularly scheduled work days lost due to occupational injuries or illnesses per 100 full-time employees working a full year (2,000 manhours each).

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

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).

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

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

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

$$(NF) \text{ Incidence Rate} = \frac{\text{Total Number of Non-fatal Cases Without Lost Workday} \times 200,000}{\text{Total Workhours}}$$

5. (NSC) NATIONAL SAFETY COUNCIL INCIDENCE RATE

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

$$(NSC) \text{ Incidence Rate} = \frac{\text{Total Number of Disabling Injuries or Illnesses Plus Fatalities} \times 200,000}{\text{Total Workhours}}$$

6. (RC) RECORDABLE CASE INCIDENCE RATE

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

$$\text{RC Incidence Rate} = \frac{\text{Total Number of OSHA Recordable Cases} \times 200,000}{\text{Total Workhours}}$$

7. (TDL) TOTAL DAYS LOST INCIDENCE RATE

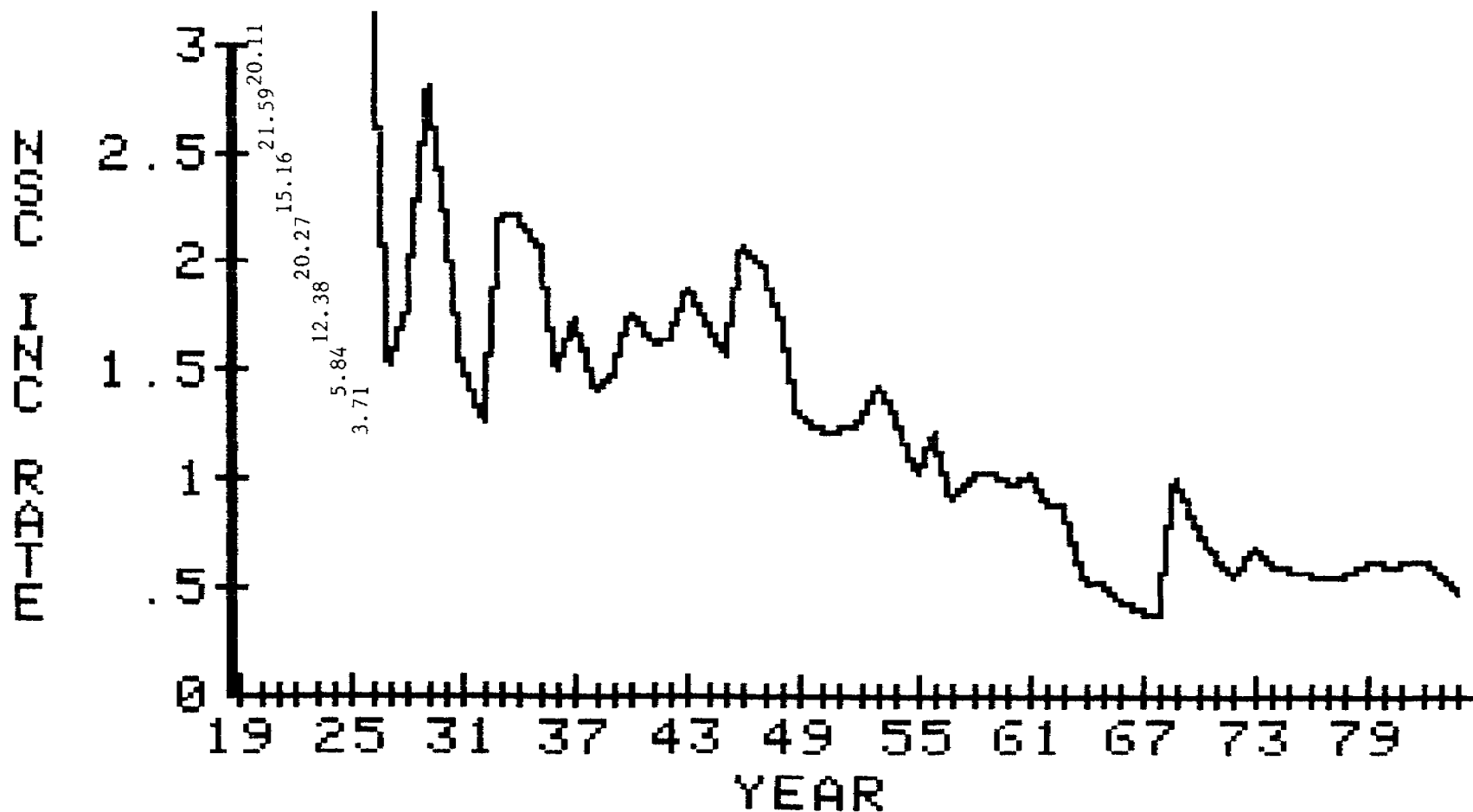
This rate reflects the total days lost from regularly scheduled jobs due to occupational injuries or illnesses experienced per 100 full-time employees working a full year (2,000 manhours each).

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

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

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TOTAL CORPORATION



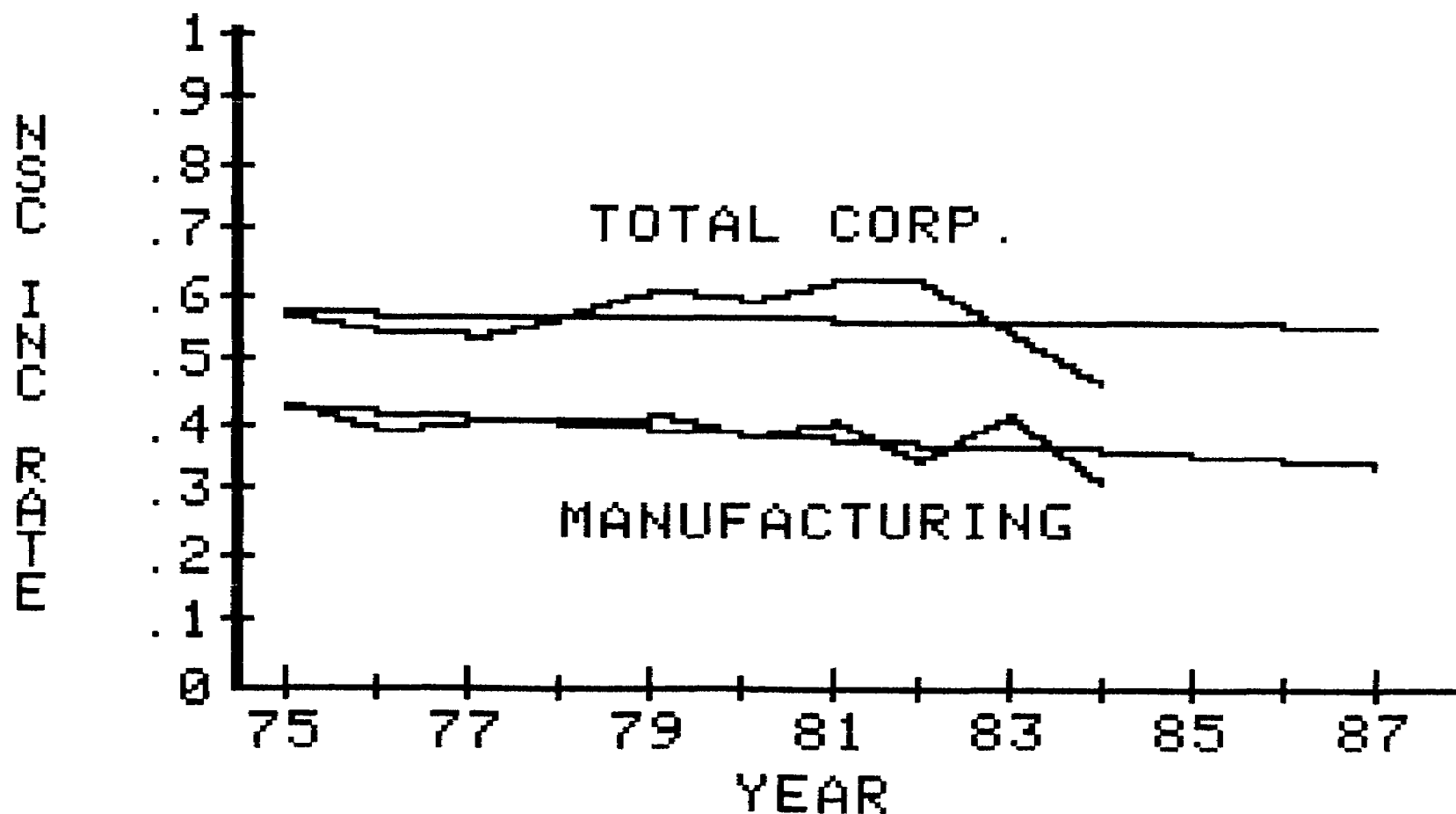
YEARS PRIOR TO 1969 DO NOT REFLECT
ALL SEGMENTS OF THE CORPORATION

NSC RATE HISTORY PLOTTED ON PAGE 27
FOR ALL THE CORPORATIONS REPORTING OPERATIONS

<u>YEAR</u>	<u>NSC RATE</u>	<u>YEAR</u>	<u>NSC RATE</u>
1919	20.11	1952	1.24
1920	21.59	1953	1.42
1921	15.16	1954	1.28
1922	20.27	1955	1.02
1923	12.38	1956	1.22
1924	5.84	1957	0.90
1925	3.71	1958	1.02
1926	3.15	1959	1.01
1927	1.53	1960	0.96
1928	1.78	1961	1.02
1929	2.81	1962	0.87
1930	2.22	1963	0.88
1931	1.52	1964	0.51
1932	1.25	1965	0.50
1933	2.22	1966	0.43
1934	2.19	1967	0.36
1935	2.04	1968	0.37
1936	1.50	1969	1.00
1937	1.75	1970	0.75
1938	1.40	1971	0.63
1939	1.49	1972	0.53
1940	1.77	1973	0.69
1941	1.61	1974	0.59
1942	1.67	1975	0.56
1943	1.88	1976	0.54
1944	1.69	1977	0.53
1945	1.57	1978	0.56
1946	2.08	1979	0.60
1947	1.96	1980	0.59
1948	1.71	1981	0.62
1949	1.29	1982	0.62
1950	1.22	1983	0.54
1951	1.23	1984	0.46

SL 103466

10 YEAR STATISTICAL TREND ANALYSIS



A REGRESSION ANALYSIS WAS USED WITH
A THREE YEAR PROJECTION

1984
ANALYSIS OF DEATHS AND DISABLING INJURIES
TOTAL CORPORATION

	<u>Total Cases</u>	<u>Breakdown</u>	<u>% of Grand Total</u>
<u>STRUCK BY</u>	37		26
Objects		21	
Glass		16	
<u>STRUCK AGAINST</u>	11		8
Objects		5	
Glass		6	
<u>FALLS</u>	27		19
Lower Level		15	
Same Level		12	
<u>OVEREXERION</u>			
<u>STRAINS AND SPRAINS</u>	43		31
Back		32	
Ankle		2	
Hand/wrist		2	
Shoulder		0	
Knee		2	
Neck		2	
Other		3	
<u>BURNS</u>	3		2
Thermal		1	
Chemical		2	
Electrical		0	
<u>CAUGHT BETWEEN</u>	12		9
<u>GAS INHALATION</u>	1		-
<u>VEHICLE INJURIES</u>	4		3
<u>OCCUPATIONAL DISEASE</u>	0		0
<u>HERNIA</u>	2		1
<u>OTHER</u>	0		0
<u>FATALITY (Fall)</u>	<u>1</u>		<u>1</u>
GRAND TOTAL	<u>141</u>		<u>100%</u>

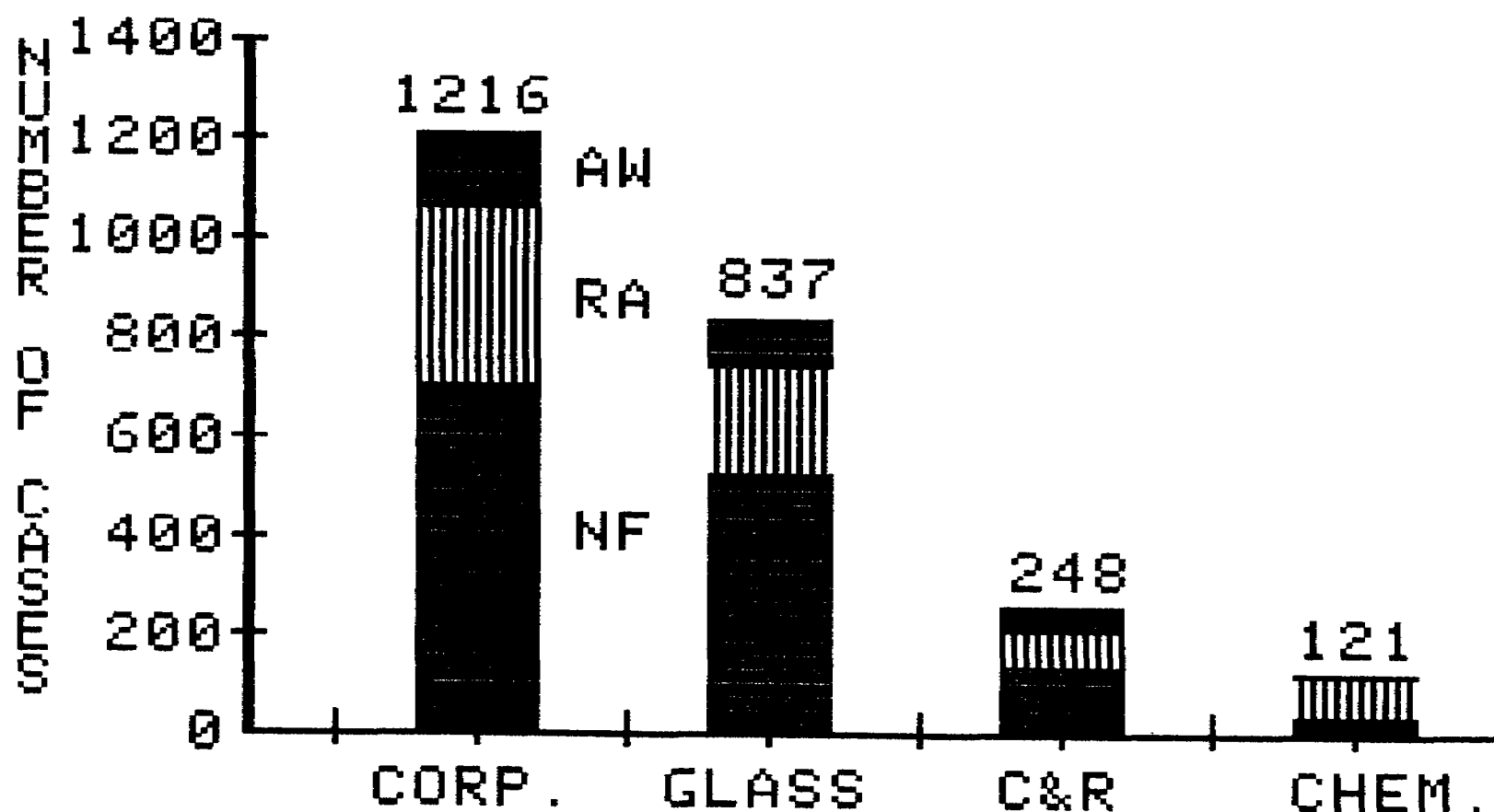
1984
ANALYSIS OF DEATHS AND DISABLING INJURIES
MANUFACTURING

	<u>Total Cases</u>	<u>Breakdown</u>	<u>% of Grand Total</u>
<u>STRUCK BY</u>	17		25
Objects		11	
Glass		6	
<u>STRUCK AGAINST</u>	3		4
Objects		2	
Glass		1	
<u>FALLS</u>	19		28
Lower Level		10	
Same Level		9	
<u>STRAINS AND SPRAINS</u>	18		27
Back		15	
Ankle		0	
Hand		1	
Shoulder		0	
Knee		1	
Neck		1	
Other		0	
<u>BURNS</u>	2		3
Thermal		0	
Chemical		2	
Electrical		0	
<u>CAUGHT BETWEEN</u>	6		9
<u>GAS INHALATION</u>	1		2
<u>VEHICLE INJURIES</u>	0		0
<u>OCCUPATIONAL DISEASE</u>	0		0
<u>HERNIA</u>	1		2
<u>OTHER</u>	0		0
<u>FATALITY</u>	0		0
GRAND TOTAL	<u>67</u>		<u>100%</u>

1984
ANALYSIS OF DEATHS AND DISABLING INJURIES
CONTRACT & DISTRIBUTION DEPARTMENT

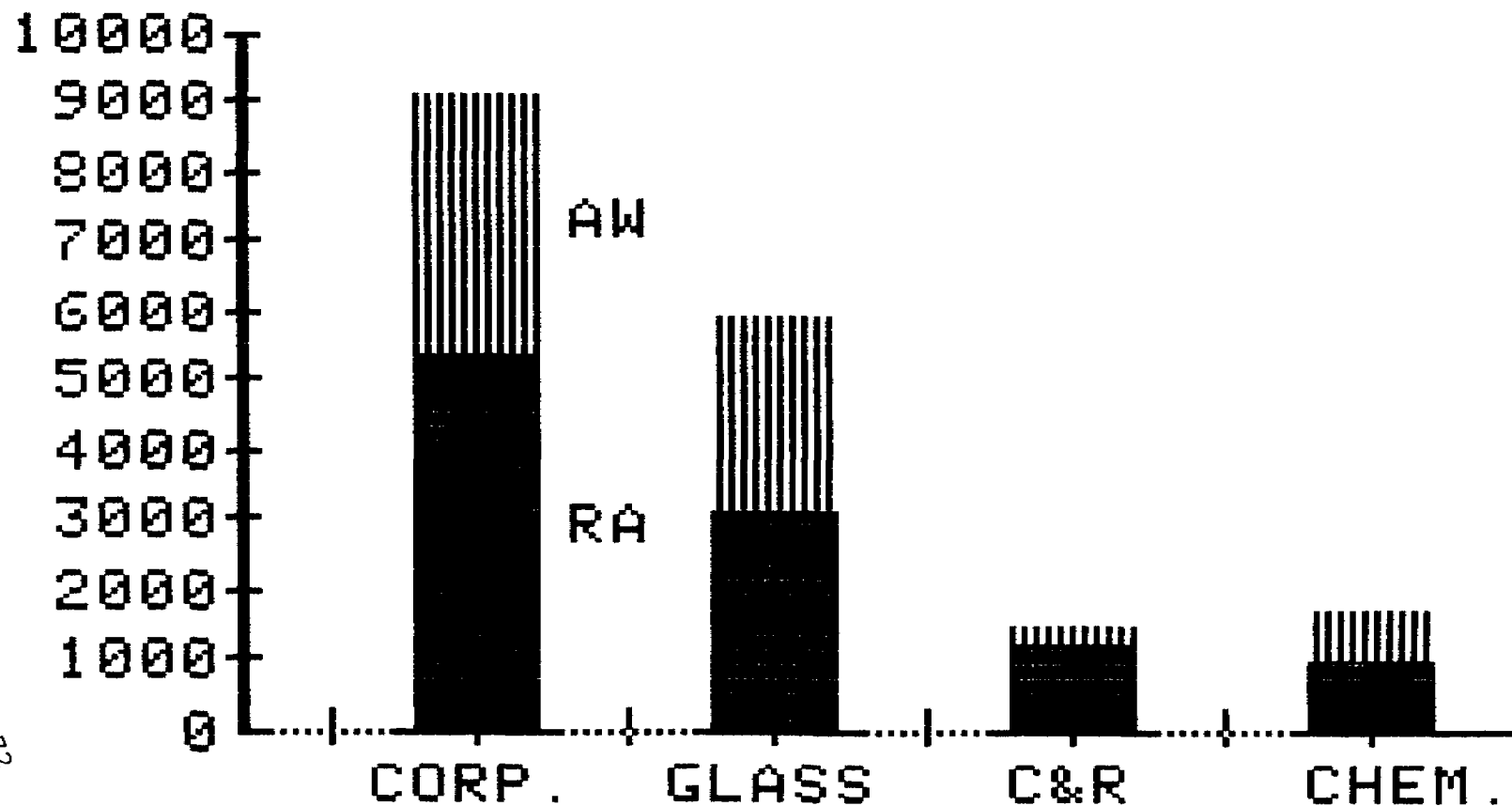
	<u>Total Cases</u>	<u>Breakdown</u>	<u>% of Grand Total</u>
<u>STRUCK BY</u>	15		31
Objects		8	
Glass		7	
<u>STRUCK AGAINST</u>	5		10
Objects		3	
Glass		2	
<u>FALLS</u>	4		8
Different Level		3	
Same Level		1	
<u>STRAINS AND SPRAINS</u>	18		37
Back		12	
Ankle		2	
Hand		1	
Shoulder		0	
Knee		1	
Neck		1	
Other		1	
<u>BURNS</u>	1		2
Thermal		1	
Chemical		0	
Electrical		0	
<u>CAUGHT BETWEEN</u>	3		6
<u>GAS INHALATION</u>	0		0
<u>VEHICLE INJURIES</u>	1		2
<u>OCCUPATIONAL DISEASE</u>	0		0
<u>HERNIA</u>	1		2
<u>OTHER</u>	0		0
<u>FATALITY (Fall)</u>	<u>1</u>		<u>2</u>
GRAND TOTAL	<u>49</u>		<u>100%</u>

TOTAL RECORDABLE CASES



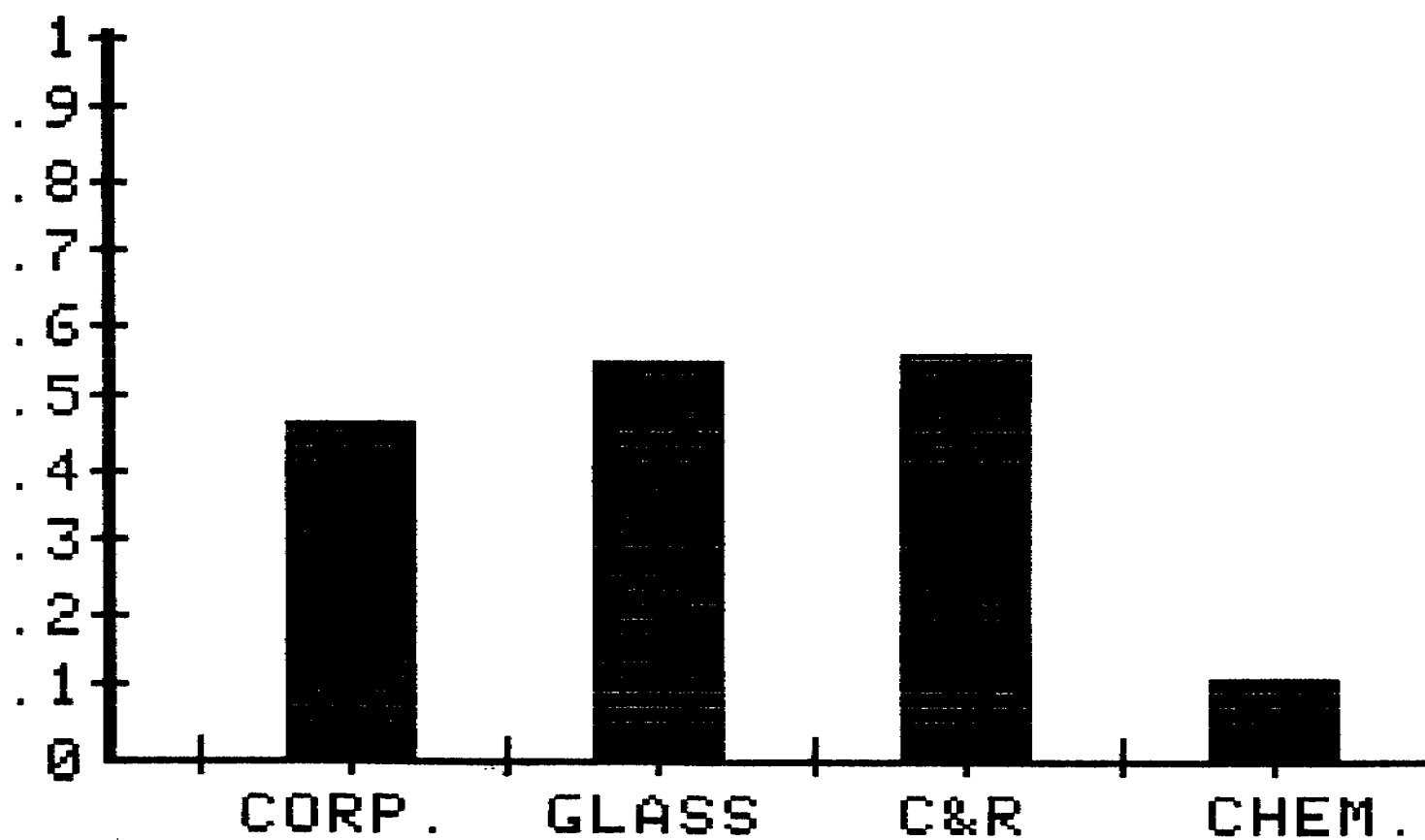
AW = DISABLING INJURY; RA = RESTRICTED ACTIVITY; NF = ALL OTHER CASES REQUIRING DOCTOR TREATMENT (NOT FIRST AID)

WORKDAYS LOST



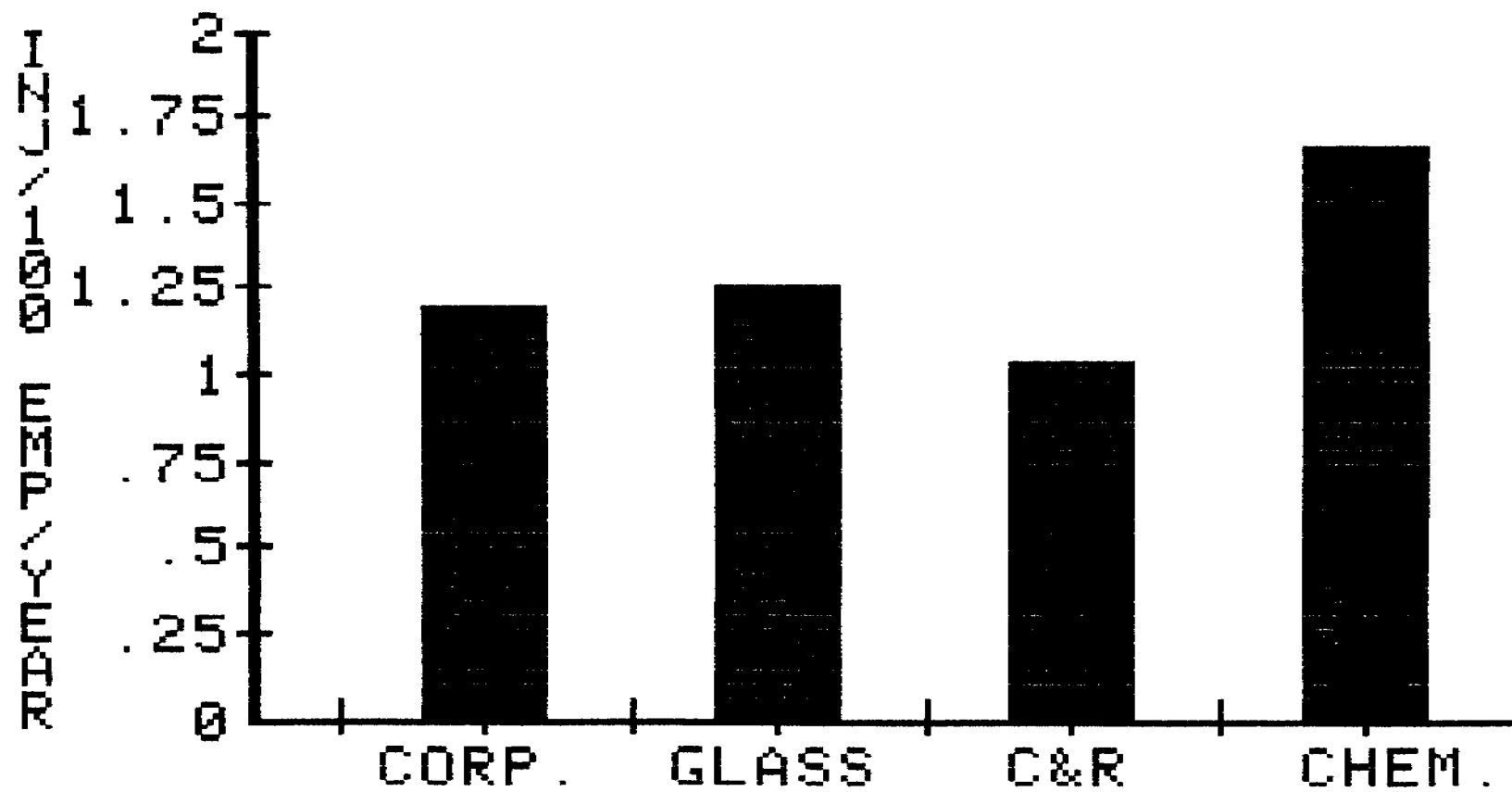
AW = DAYS LOST DUE TO DISABLING
INJURIES; RA = DAYS LOST DUE TO
RESTRICTED ACTIVITY

1984 AW (DISABLING INJURY) RATES



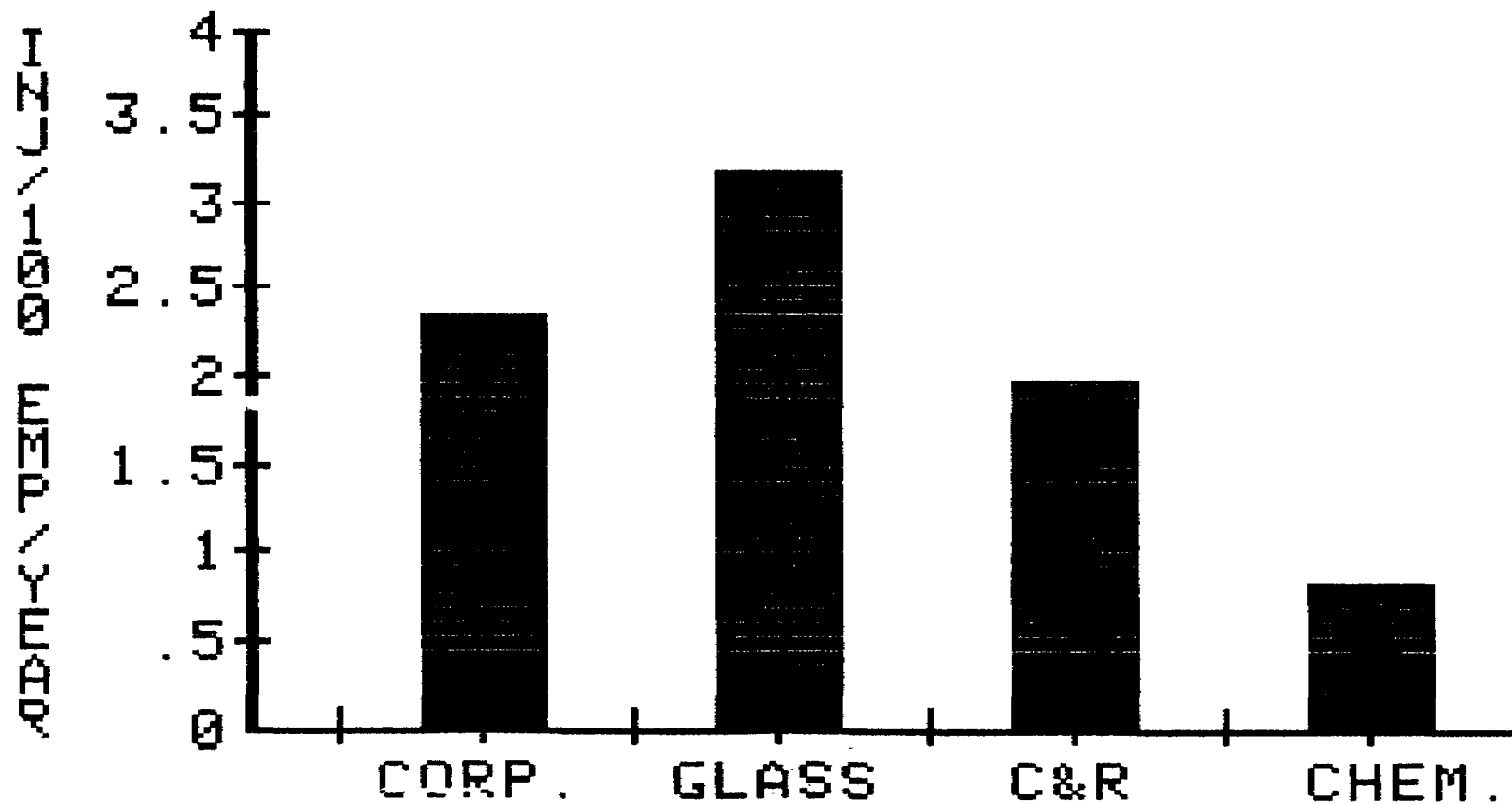
HZ7\4500 WED\3-WET

1984 RESTRICTED ACTIVITY CASE RATES



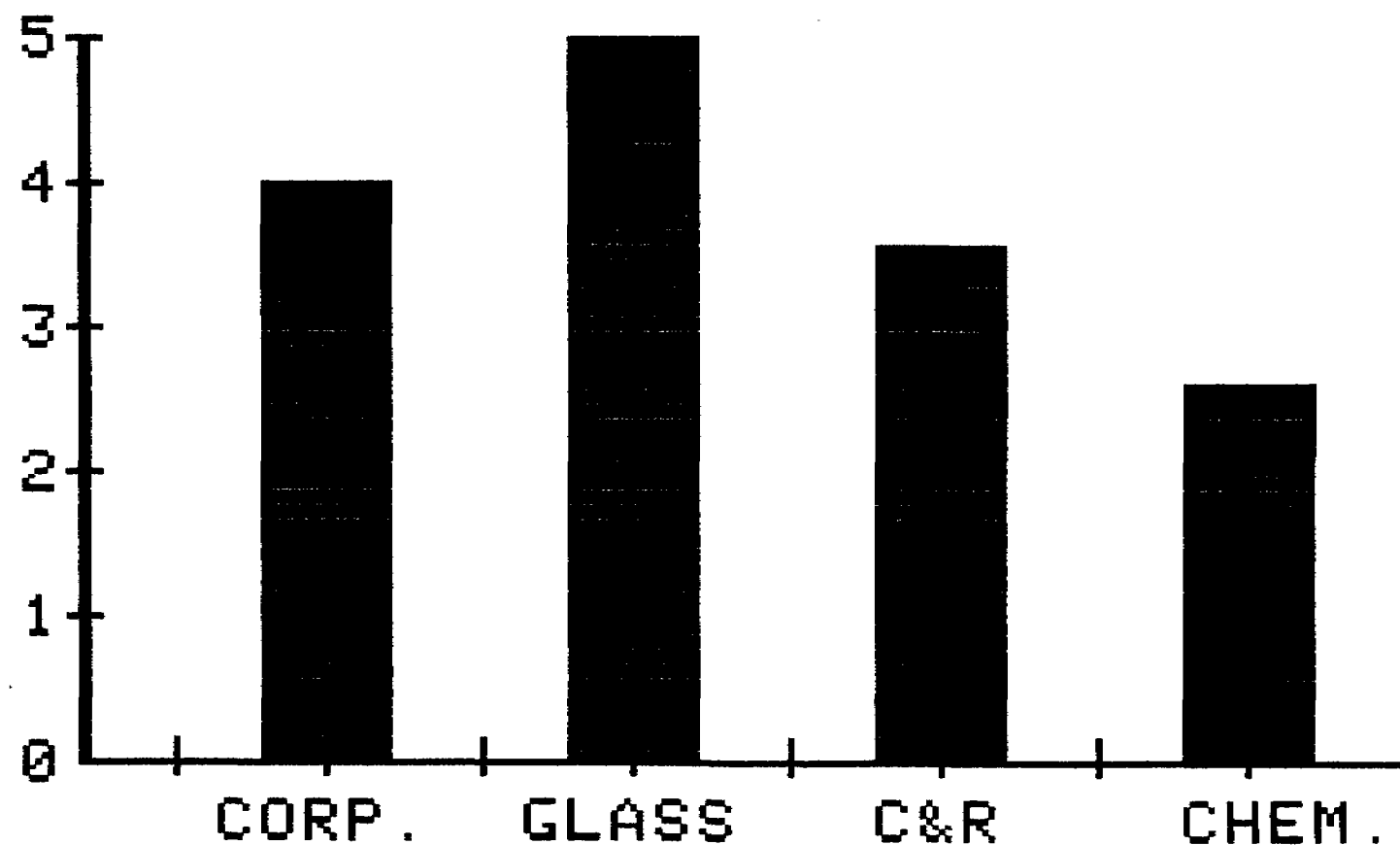
ALL CASES INVOLVING LOST WORKDAYS

1984 NONFATAL CASE RATES



NF = NONFATAL CASES WHICH ARE INJURIES
REQUIRING MEDICAL TREATMENT (NOT FIRST
AID) AND DO NOT INVOLVE LOST WORKDAYS

1984 TOTAL RECORDABLE CASE RATES

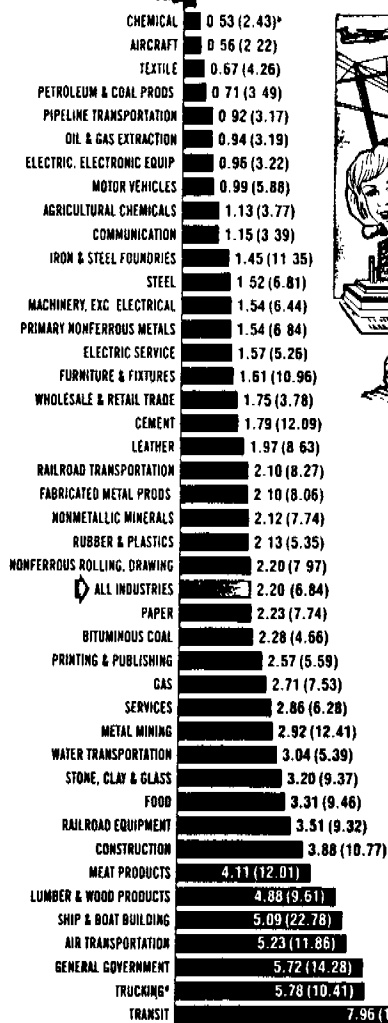


TOTAL RECORDABLE CASES = AW + RA + NF

1983 incidence rates of principal industries

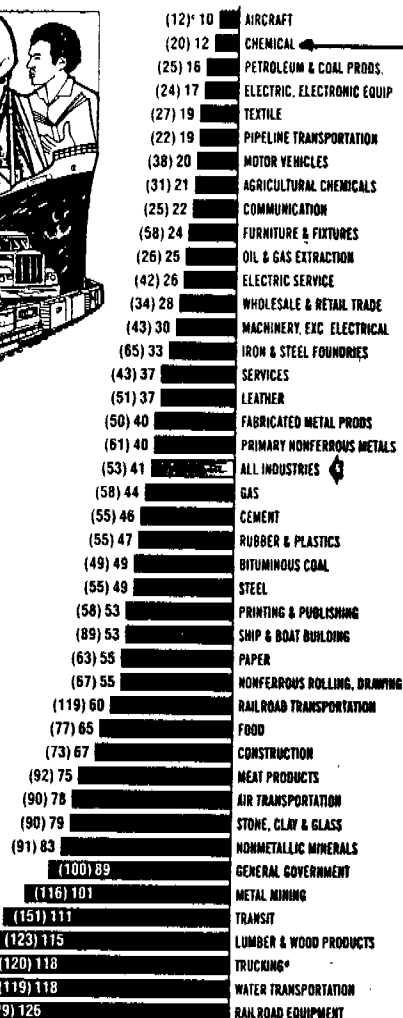
*PPG 0.46

Incidence Rates* CASES INVOLVING DAYS AWAY FROM WORK & DEATHS



Incidence Rates* DAYS AWAY FROM WORK

*PPG 12.0



Source: Based on reports of National Safety Council members participating in the Award Plan for Recognizing Good Occupational Safety Records. These rates should not be interpreted as representative of the industries listed or of Council member companies. 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 Total Recordable Cases.

*Rates in parentheses are Total Lost Workdays.

*Excludes SIC code 4215.

*PPG Data is for 1984.

DOLLAR LOSS SUMMARY¹
Year-to-Date as of December 31, 1984

	Injury & ² Illness Costs	Losses ³ to Assets "CAPP"	Vehicle ⁴ Losses	Third ⁵ Party Claims	Other
Glass Group	4,435,244	1,255,833	667,858	3,184,259	
Chemicals Group	1,156,042	5,186,368	76,639	3,516,385	
C&R Group	796,445	753,249	639,594	1,746,710	
General Office	31,193	248,759	117,644	145,571	
Total Corporate	\$6,418,924	\$7,444,209	\$1,501,735	\$8,592,925	

GRAND TOTAL CORPORATE - \$23,957,793

1. Dollar Losses Paid Year-to-Date. Prior year claims are included if paid during year. "CAPP," Vehicle, and Third Party figures do not include insurance premiums until year-end.
2. Costs include: Workers' Compensation paid, Workers' Compensation awards, attending physicians fees, prosthetic devices (crutches and canes, etc.), hospital expenses, ambulance charges, transportation charges other than ambulance, cost of rehabilitation, clinic and outpatient charges, attorney fees, professional services for claim defense, state filing fees, and excess insurance premiums. (This is the total Corporate 1607 account plus an estimate for Texas claims paid by Texas General Indemnity Company.)
3. Dollar losses reported to the Corporate 7645 account.
4. Dollar losses paid by the Risk Management Department.
5. Dollar losses paid by the Risk Management Department.

SL 103478

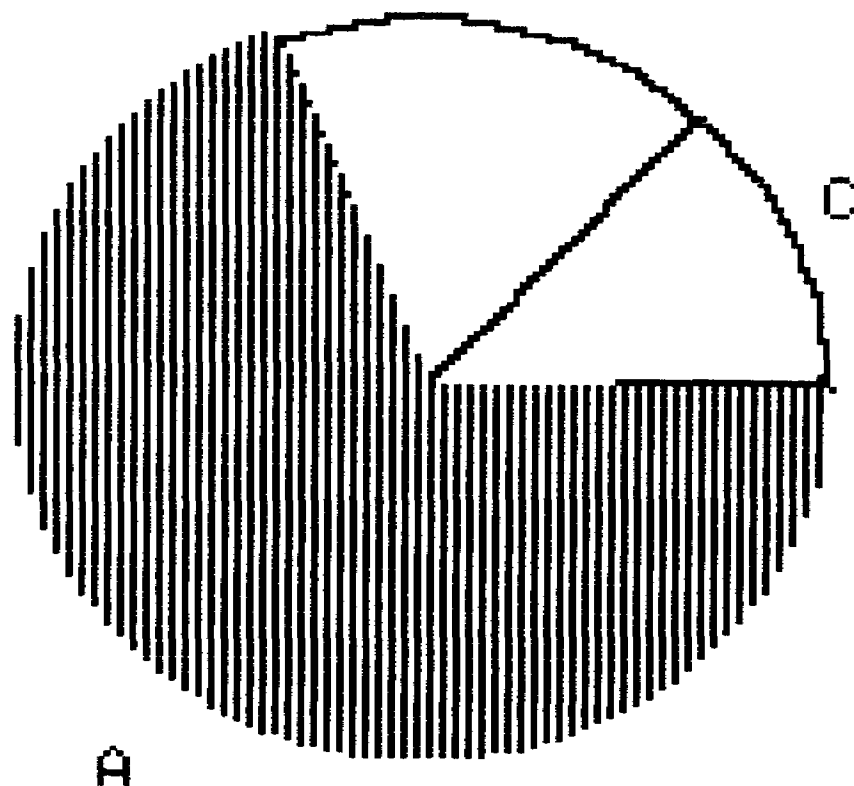
INJURY & ILLNESS COSTS FOR 1984

	<u>GLASS GROUP</u>	<u>CHEMICALS GROUP</u>	<u>C&R GROUP</u>	<u>G.O.</u>	<u>TOTAL</u>
<u>Controllable Costs</u>					
Manufacturing Injury & Illness Costs	\$1,959,525	\$ 652,475	\$190,405	\$ 6,231	\$2,808,636
Non-manufacturing Injury & Illness Costs	<u>1,929,629</u>	<u>296,425</u>	<u>382,533</u>	<u>23,995</u>	<u>2,632,582</u>
TOTAL	\$3,889,154	\$ 948,900	\$572,938	\$ 30,226	\$5,441,218
<u>Non-Controllable Costs</u>					
State filing fees, excess insurance, etc.	<u>546,090</u>	<u>207,144</u>	<u>223,507</u>	<u>968</u>	<u>977,709</u>
TOTAL COSTS	<u>\$4,435,244</u>	<u>\$1,156,044</u>	<u>\$ 796,445</u>	<u>\$ 31,194</u>	<u>\$6,418,927</u>
PERCENT CONTROLLABLE	<u>88</u>	<u>82</u>	<u>72</u>	<u>97</u>	<u>85</u>

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SL 103479

OCCUPATIONAL INJURY/ILLNESS COSTS

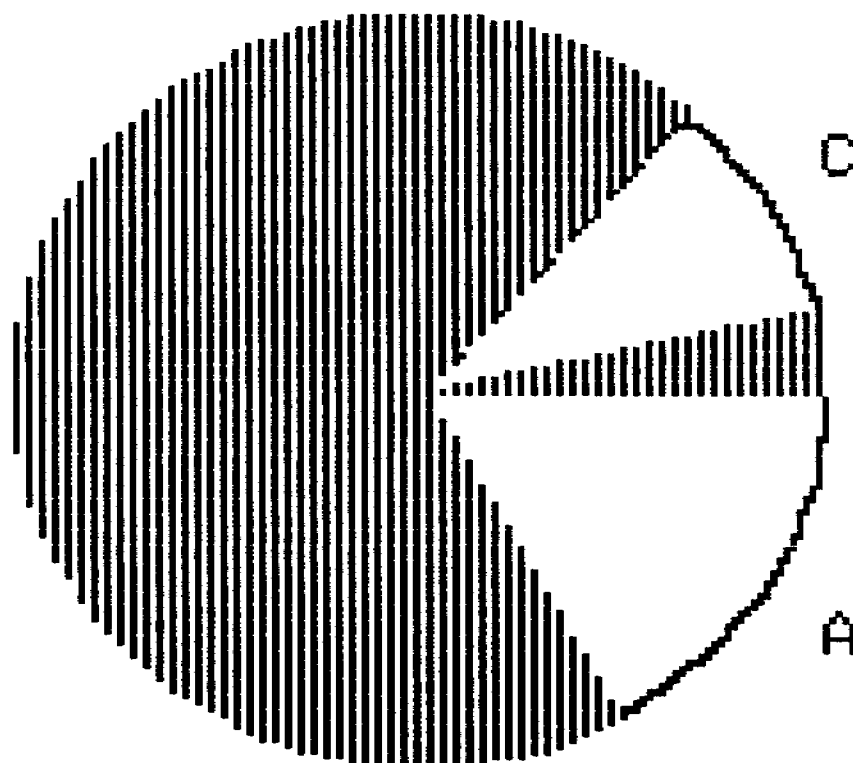


1	GLASS	60%
2	CHEMICALS	18%
3	WOOD	12%
4	OTHER	10%

TOTAL CORPORATION \$6,418,924

SL 103480

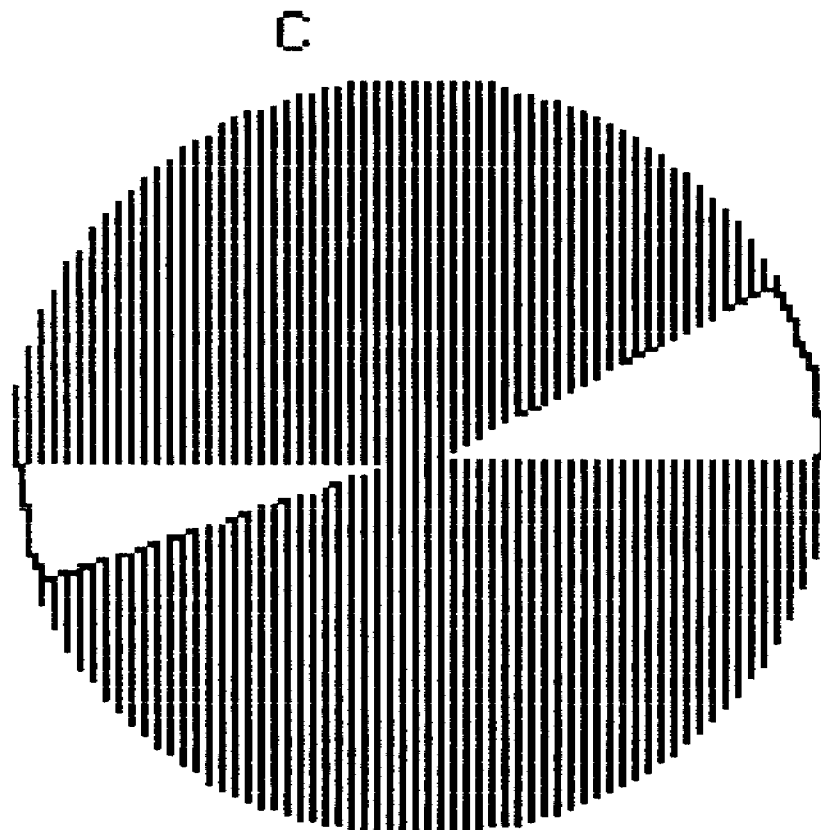
LOSSES TO ASSETS "CAPP"



Food	17%
Chemicals	10%
Other	73%

TOTAL CORPORATE \$7,444,209

VEHICLE LOSSES



D

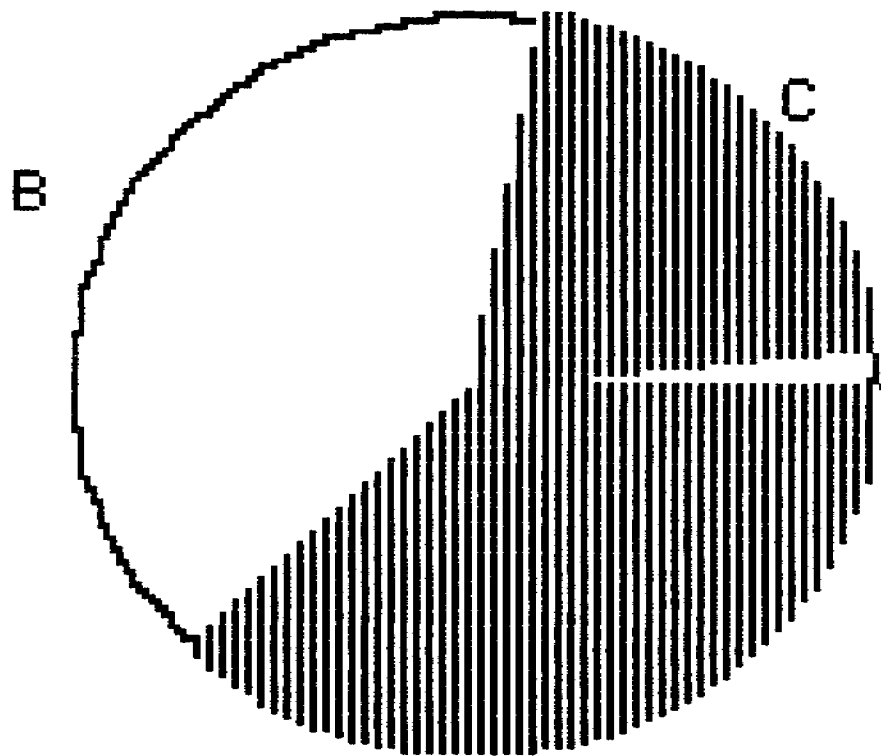
A	GLASS	44%
B	CHEMICALS	45%
C	G. & R.	43%
D	G. S.	8%

A

TOTAL CORPORATE \$1,501,735

SL 103482

THIRD PARTY CLAIMS



A	GLASS	37%
B	CHEMICALS	41%
C	C&P	20%
D	G.S.	2%
4		

A
TOTAL CORPORATE \$8,592,925

SL 103483

SAFETY PERFORMANCE AWARDS

PPG Industries, Inc., has its own internal awards programs. The Executive Awards Program recognizes a unit's long period of death or disabling injury free operation. The second set recognizes a unit's good safety performance based on a calendar year. The third set of awards pertain to the "President's Challenge" and recognizes any unit that meets or exceeds their safety performance goal for the calendar year in keeping with the Challenge to continually reduce our occupational injury and illness case rates. A Life Saving Award Program is also included which recognizes any employee who saves a life while on the job.

PPG also participates in the awards program sponsored by the National Safety Council.

The following summary details the awards won by the Units of the corporation during 1984.

PPG INDUSTRIES, INC. EXECUTIVE AWARDS PROGRAM 1984

<u>President's Award</u>	<u>Disabling Injury-Free Operation</u>	
Carlisle, PA	3/20/82 - 8/21/84	885 days
<u>Special Recognition Award</u>		
Cleveland, OH	8/30/83 - 10/1/84	399 days
<u>Executive Award</u>		
Wichita Falls, TX	4/27/83 - 2/25/84	306 days
Creighton, PA	7/28/82 - 1/27/84	551 days
Crestline, OH	8/10/83 - 9/22/84	410 days
Barberton Technical Center	1/9/82 - 2/8/84	751 days
Natrium, WV	6/4/83 - 4/16/84	318 days
Lake Charles, LA	12/6/83 - 6/5/84	182 days
Beauharnois, Quebec	8/11/82 - 10/4/84	785 days
Kalium	9/19/82 - 12/6/84	810 days
Cleveland	8/30/83 - 4/23/84	238 days
C&R R&D Locations	5/8/82 - 5/27/84	751 days
East Point, GA	5/27/82 - 5/25/84	731 days

SL 103484

PPG INDUSTRIES, INC.
CALENDAR YEAR
AWARDS PROGRAM

1984 Awards of Honor

Twenty-three plants, four research and development units, and eighteen sales and distribution units completed 1984 without a death or away-from-work case. Consequently, these units earned the Corporation's Award of Honor. They are:

Manufacturing

<u>Location</u>	<u>Fifth Consecutive Year</u>		
Lexington, NC	Fourth	"	"
Cumberland, MD	Second	"	"
Carlisle, PA	"	"	"
Precision Art Coordinators	"	"	"
Kalium	"	"	"
LaPorte, TX	"	"	"
Stockertown, PA	"	"	"
Springdale, PA	"	"	"
Kokomo, IN			
Marshall, MN			
Lincoln, IL			
Crestline, OH			
Huntsville, AL			
Shelby, NC			
Barberton, OH			
PD Glycol			
Corpus Christi, TX			
Baltimore, MD			
Circleville, OH			
Cleveland, OH			
Hughes Products			
Glass Tech. Dev.			

Research & Development Units

Fiber Glass Research	Fifth Consecutive Year		
Barberton R&D	Second	"	"
C&R Research - All Operations	"	"	"
Harmarville, PA			

Sales & Distribution Units

Ditzler Warehouses	Twelfth Consecutive Year		
C&R Industrial Sales	Eleventh	"	"
Chemical Sales & Distribution	Seventh	"	"
ARG Depots	Fifth	"	"

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

Caribe Sales	Third Consecutive Year
C&R Refinish Sales	" " "
C&R Distribution Centers	Second " "
Canadian Archictural Metals Sales & Distribution	
Canadian General Office Sales & Distribution	
Commercial Products Sales & Distribution	
Aircraft & Specialty Products	
ARG Sales	
Biochemicals	
Stanchem Sales & Distribution	
C&R Canadian Region Sales & Distribution	
C&R HDM Sales	
C&R Dealer Sales	
C&R Distribution Centers - Canada	

The Award of Merit is presented to units that achieved significant improvement even though they were not disabling injury-free.

1983 Award of Merit Presented in 1984

Clarkson, ONT
Houston, TX
Tipton, PA
Ford City, PA
Kokomo, IN
Barberton, OH

1984 Award of Merit Applications

Clarkson, ONT
Hunt Valley, MO
Meadville, PA
Crystal City, MO
Greensburg, PA

PRESIDENT'S CHALLENGE AWARD WINNERS
LOCATIONS MEETING OR EXCEEDING THEIR 1984 SAFETY PERFORMANCE GOALS

CHEMICALS

Manufacturing

Barberton
PPG Canada, Inc.
PD Glycol
Kalium
Lake Charles
LaPorte
Natrium
Stockertown
Corpus Christi

R&D

Barberton Technical Center

Sales/Distribution/Administration

Biochemicals
Industrial Sales
Performance Products
Stanchem Canada

C&R

Manufacturing

Baltimore
Circleville
Cleveland
East Point
Springdale
Bowers (Canada) (3)
Hughes Products (2)

R&D

All Locations (3)

Sales/Distribution/Administration

Distribution Centers (U.S.)
Distribution Centers (Canada)
Industrial Sales
Ditzler Warehouses
Refinish Sales

GLASS

Manufacturing

WKS 6 Carlisle
WKS 7 Cumberland
WKS 5 Ford City
WKS 19 Kokomo
WKS 20 Marshall
WKS 21 Lincoln
U.S. Metal Fab
U.S. Fab Products
WKS 1 Creighton
WKS 26 Crestline
Oshawa
WKS 22 Huntsville
WKS 24 Valencia
WKS 40 PAC
Technical Development
WKS 25 Greensburg
WKS 52 Shelby
WKS 53 Lexington

R&D

WKS 17 Harmarville
WKS 51 O'Hara Township

Sales/Distribution/Administration

Canadian Arch. Metals
Canadian Branches
Canadian CCG
Canadian G.O.
Commercial Product Sales
U.S. C&D Branches
U.S. C&D CCG
Automotive & Specialty Sales/MKT
ARG Depots
ARG Sales

PPG INDUSTRIES, INC.
LIFE SAVING AWARDS PROGRAM

The PPG Life Saving Award is given to a PPG employee who saves another persons life while he or she is on the job. Two were given in 1984:

Kathleen Lynch of Hughes Products in Adrian, MI
John Brantley of the Lake Charles Plant

NATIONAL SAFETY COUNCIL AWARD PROGRAM
1983 AWARDS PRESENTED IN 1984

These awards are based on a three-year history and the current year comparison.

Awards of Honor

Manufacturing

Lexington, NC
Carlisle, PA

Award of Merit

Manufacturing

Mt. Zion, IL
Springdale, PA
Cumberland, MD
Creighton, PA

Research & Development

C&R Research
Fiber Glass Research

Award of Commendation

Manufacturing

Baltimore, MD
Creighton, PA
East Point, GA
Stanchem, Canada
Woodward, OK
LaPorte, TX
Kalium, Canada

Research & Development

Barberton Tech Center
Caribe
Chicago R&D

President's Citation

Manufacturing

Stockertown, PA

SL 103488

1984
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 Investigat.</u>	<u>Follow Up</u>	<u>Total</u>
Glass	0	0	9	0	4	0	0	13
C&D Department	1	4	33	3	0	1	0	42
Chemical	1	1	0	1	0	0	0	3
C&R	<u>0</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>6</u>
TOTAL	2	5	46	4	6	1	0	64

BY INSPECTION RESULTS

	<u>Insp. With Citation</u>	<u>Insp. No Citation</u>	<u>Citations No Penalty</u>	<u>Citations With Penalty</u>	<u>Amount of Penalties</u>	<u>*Average Results Penalty Received</u>	<u>Not Received</u>	<u>**Contested Violations</u>
Glass	7	6	5	2	\$ 150	\$ 75	2	2
C&D Department	19	23	10	9	5,280	586	9	7
Chemical	0	3	0	0	0	0	2	0
C&R	<u>1</u>	<u>5</u>	<u>0</u>	<u>1</u>	<u>240</u>	<u>240</u>	<u>2</u>	<u>0</u>
TOTAL	27	37	15	12	\$5,670	\$472	15	9

*Average penalty received per violation assigned penalty.

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

SL 103489

1971 - 1984
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 Investigat.</u>	<u>Follow Up</u>	<u>Total</u>
Glass	2	29	51	0	10	0	22	114
C&D Department	4	20	92	226	0	2	6	350
Chemical	5	26	19	2	5	1	13	71
C&R	1	31	26	0	8	1	15	82
Other	<u>0</u>	<u>2</u>	<u>6</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>2</u>	<u>11</u>
TOTAL	12	108	194	228	24	4	58	628

BY INSPECTION RESULTS

	<u>Insp. With Citation</u>	<u>Insp. No Citation</u>	<u>Citations No Penalty</u>	<u>Citations With Penalty</u>	<u>Amount of Penalties</u>	<u>*Average Penalty Received</u>	<u>Results Not Received</u>	<u>**Contested Violations</u>
Glass	51	61	204	76	\$ 7,965	\$ 326	5	10
C&D Department	222	113	343	169	34,594	1,365	24	45
Chemical	24	49	39	31	4,020	627	2	21
C&R	27	50	71	35	10,980	556	6	11
Other	<u>7</u>	<u>4</u>	<u>58</u>	<u>21</u>	<u>2,630</u>	<u>125</u>	<u>0</u>	<u>0</u>
TOTAL	331	277	715	332	\$60,189	\$ 181	37	87

*Ave penalty received per violation assigned penalty.

**Eit through formal procedures or informal meetings with OSHA area personnel.

SL 103490

1984 VISITATION MATRIX

CITY	STATE OR PROVINCE	LOCATION TYPE	GROUP	SAFETY	HEALTH	MEDICAL	FIRE	SECURITY
	MICHIGAN	OIL & GAS	CHEMICAL					
CARIBE	PUERTO RICO	SLS-DST	CHEMICAL					
LAKE CHARLES	LOUISIANA	MFG	CHEMICAL					
NEW MARTINSVILLE	WEST VIRGINIA	MFG	CHEMICAL		X			
BEAUMONT	TEXAS	MFG	CHEMICAL					
CORPUS CHRISTI	TEXAS	R & D	CHEMICAL					
BARBERTON	OHIO	MFG	CHEMICAL		X			
BARBERTON	OHIO	R & D	CHEMICAL		X			
BEAUHARNOIS	QUEBEC	MFG	CHEMICAL					
REGINA	SASKATCHEWAN	MFG	CHEMICAL					
WOODWARD	OKLAHOMA	MFG	CHEMICAL					
PITTSBURGH	PENNSYLVANIA	US SLS-DST	CHEMICAL					
MONTREAL	QUEBEC	MFG	CHEMICAL					
LA PORTE	TEXAS	MFG	CHEMICAL					
STOCKERTOWN	PENNSYLVANIA	MFG	CHEMICAL					
CHICAGO	ILLINOIS	R & D	CHEMICAL					
CREIGHTON WKS #1	PENNSYLVANIA	MFG	GLASS	X	M			
WICHITA FALLS	TEXAS	MFG	GLASS	X				
FORD CITY	PENNSYLVANIA	MFG	GLASS	X	M			
CARLISLE	PENNSYLVANIA	MFG	GLASS					
CUMBERLAND	MARYLAND	MFG	GLASS					
MEADVILLE	PENNSYLVANIA	MFG	GLASS		X			
CRYSTAL CITY	MISSOURI	MFG	GLASS		X			
MT. ZION	ILLINOIS	MFG	GLASS	X	M			
FRESNO	CALIFORNIA	MFG	GLASS					
MARSHALL	MINNESOTA	MFG	GLASS	X				
LINCOLN	ILLINOIS	MFG	GLASS	X	X			
HUNSTVILLE	ALABAMA	MFG	GLASS	X	M			
CREIGHTON WKS #23	PENNSYLVANIA	MFG	GLASS					
VALENCIA	CALIFORNIA	MFG	GLASS		X			
GREENSBURG	PENNSYLVANIA	MFG	GLASS		M			M
CRESTLINE	OHIO	MFG	GLASS		M			
TIPTON	PENNSYLVANIA	MFG	GLASS		M			
EVANSVILLE	INDIANA	MFG	GLASS	X	M			
KOKOMO	INDIANA	MFG	GLASS					
WORKS #17	PENNSYLVANIA	R & D	GLASS	X	M			
FARMERS BRANCH	TEXAS	SLS-DST	GLASS	X				
		EAST BR SLS-DST	GLASS	M				
		CENT BR SLS-DST	GLASS	M				

X = VISIT BY EITHER GROUP OR CORPORATE STAFFS
M = MORE THAN ONE VISIT BY GROUP OR CORPORATE STAFFS

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764901 SL 103491

CITY	STATE OR PROVINCE	LOCATION NAME	GROUP	SAFETY	HEALTH	MEDICAL	FIRE	SECURITY
		WEST BR SLS-DST	GLASS	M				
		FAB PROD SLS-DST	GLASS	M	X			
		ARG CTRS SLS-DST	GLASS	M				
		METAL FAB	GLASS	M				
		ARG DEPOTS	GLASS	M				
		CCG - SLS-DST	GLASS	M				
	PAC	MFG	GLASS					
OWEN SOUND	CANADA	MFG	GLASS					
OSHAWA	CANADA	MFG	GLASS		X			
HAWKESBURY	CANADA	MFG	GLASS		X			
BALTIMORE	MARYLAND	MFG	C & R	X				
CAIVANO	ITALY	MFG	C & R	X				
CHIMPEX	ITALY	MFG	C & R	X				
DELAWARE	OHIO	MFG	C & R	M	M	X	X	
SPRINGDALE	PENNSYLVANIA	MFG	C & R	M	X	X		M
SPRINGDALE	PENNSYLVANIA	ALL R & D	C & R	M	X	M		M
TORRANCE	CALIFORNIA	MFG	C & R	X				
CLEVELAND	OHIO	MFG	C & R	M	M	X		
CIRCLEVILLE	OHIO	MFG	C & R	X	M			
DOVER	DELAWARE	MFG	C & R	X	X			
EAST POINT	GEORGIA	MFG	C & R	X	X	M		
ITALVER	ITALY	MFG	C & R	X				
LA COURNEUVE	FRANCE	MFG	C & R	X				
MILAN	ITALY	MFG	C & R	X				
OAK CREEK	WISCONSIN	MFG	C & R	X	M	M		
PPMSA	MEXICO	MFG	C & R	X				
QUATTORDIO	ITALY	MFG	C & R	X				
ROUVIGNIES	FRANCE	MFG	C & R	X				
RUBI	SPAIN	MFG	C & R	X				
SAULTAIN	FRANCE	MFG	C & R	X				
VALENCIA	SPAIN	MFG	C & R	X				
VALENCIENNES	FRANCE	MFG	C & R	X				
VALLADOLID	SPAIN	MFG	C & R	X				
HOUSTON	TEXAS	MFG	C & R	X	X		X	X
HOUSTON	TEXAS	SLS REGION	C & R	M				
ATLANTA	GEORGIA	SLS REGION	C & R	M				
CHICAGO	ILLINOIS	SLS REGION	C & R	M				
PITTSBURGH	PENNSYLVANIA	SLS REGION	C & R	M				X
LOS ANGELES	CALIFORNIA	SLS REGION	C & R	M				
ST. LOUIS	MISSOURI	SLS REGION	C & R	M				

X = VISIT BY EITHER GROUP OR CORPORATE STAFFS

M = MORE THAN ONE VISIT BY GROUP OR CORPORATE STAFFS

SL 103492

CITY	STATE OR PROVINCE	LOCATION NAME	GROUP	SAFETY	HEALTH	MEDICAL	FIRE	SECURITY
NEW YORK	NEW YORK	SLS REGION	C & R	M				
MEXICO CITY	MEXICO	MFG	C & R					
CORONA	FRANCE	MFG	C & R	X				
ATLANTA	GEORGIA	INK MFG	C & R	X				
CINCINNATI	OHIO	INK MFG	C & R					
CLEARWATER	FLORIDA	INK MFG	C & R					
HAMLET	NORTH CAROLINA	INK MFG	C & R					
HAWTHORNE	CALIFORNIA	INK MFG	C & R		X			
JACKSONVILLE	FLORIDA	INK MFG	C & R	X				
JONESBORO	LOUISIANA	INK MFG	C & R	X				
KANSAS CITY	KANSAS	INK MFG	C & R					
NASHVILLE	TENNESSEE	INK MFG	C & R	M				
MONROE	LOUISIANA	INK MFG	C & R	X				
PINE BLUFF	ARKANSAS	INK MFG	C & R					
SPARTANSBURG	SOUTH CAROLINA	INK MFG	C & R	X				
CHICAGO	ILLINOIS	INK MFG	C & R	M	X			
MARKHAM	ONTARIO	INK MFG	C & R	X				
ST. LEONARD	QUEBEC	INK MFG	C & R					
PORTLAND	OREGON	INK MFG	C & R	X				
EAST WINDSOR	CONNECTICUT	INK MFG	C & R	X				
SAN LEANDRO	CALIFORNIA	INK MFG	C & R	X				
SEATTLE	WASHINGTON	INK MFG	C & R	X				
VANCOUVER	B. C.	INK MFG	C & R	X				
LOS ANGELES	CALIFORNIA	ADH MFG	C & R		X			
MADISON HEIGHTS	MICHIGAN	ADH MFG	C & R	X				
ADRIAN	MICHIGAN	ADH MFG	C & R	X				
		INDUST SLS-DST	C & R	X				
		REFINISH SLS-DST	C & R	X				
		DST CENTERS	C & R	X				
		DITZLER WHSE-DST	C & R	X				
CLARKSON	ONTARIO	MFG	C & R	X				
TORONTO	ONTARIO	MFG	C & R	X				
TORONTO	ONTARIO	SLS-DST	C & R	X				
		CAN SLS-REGION	C & R	M				
		DST CTR CAN	C & R	M				
SHELBY	NORTH CAROLINA	MFG	FIBER GLASS	X	M			
LEXINGTON	NORTH CAROLINA	MFG	FIBER GLASS	X	M			
BLAWNOX	PENNSYLVANIA	ALL R & D	FIBER GLASS		M			X
DELAWARE	OHIO	CORP. TRUCK FLEET	CORP.					
STONEBORO	PENNSYLVANIA	CORP. TRUCK DEPOT	CORP.					

X = VISIT BY EITHER GROUP OR CORPORATE STAFFS

M = MORE THAN ONE VISIT BY GROUP OR CORPORATE STAFFS

PPG INDUSTRIES, INC
OCCUPATIONAL INJURY & ILLNESS REPORT
EXECUTIVE SUMMARY

1984 YEAR END REPORT

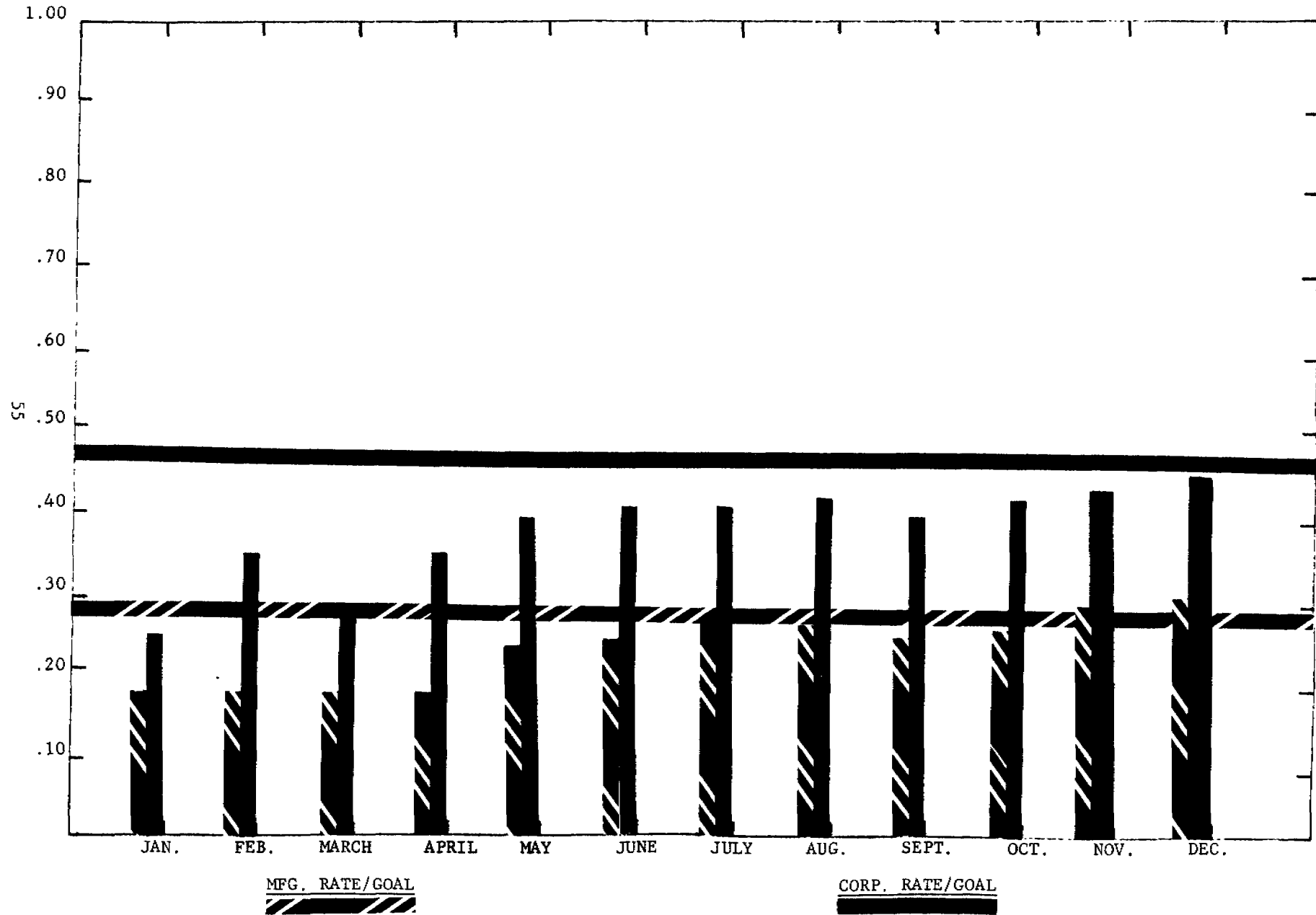
	AW CASES MO	YTD AW DAYS YEAR	LOST	1984 GOAL	NSC RATE YTD	81-83 3 YR AVE
MANUFACTURING						
CHEMICALS GROUP	0	3	103	0.20	0.07	0.40
C&R GROUP	0	27	493	0.46	0.57	0.41
GLASS GROUP	0	37	1097	0.26	0.29	0.49
TOTAL ALL MFG	0	67	1693	0.29	0.31	0.45
RESEARCH & DEVEL.						
CHEMICALS GROUP	0	1	8	0.00	0.32	0.21
C&R GROUP	0	0	0	0.00	0.00	0.06
GLASS GROUP	0	0	0	0.00	0.00	0.13
TOTAL ALL R&D	0	1	8	0.00	0.07	0.12
SALES & DIST & ADM						
CHEMICALS GROUP	0	1	0	0.00	0.27	0.52
C&R GROUP	0	12	111	0.60	0.78	0.83
GLASS GROUP	0	56	1676	2.16	1.58	2.30
GENERAL OFFICE	0	3	186	0.09	0.14	0.17
TOTAL ALL SLS-DIST	0	72	1976	1.02	0.95	1.13
TOTAL GROUPS & ADM						
CHEMICALS	0	5	114	0.17	0.11	0.40
COATINGS & RESINS	0	39	604	0.48	0.56	0.50
GLASS	0	93	2773	0.62	0.56	0.81
GENERAL OFFICE	0	3	186	0.09	0.15	0.17
TOTAL ALL OPER.	0	140	3655	0.47	0.46	0.61

AW CASES ARE THOSE INVOLVING INJURIES WHICH DISABLE AN EMPLOYEE TO THE EXTENT THAT ONE OR MORE DAYS ARE LOST "AWAY FROM WORK".

THE NSC RATE IS THE NUMBER OF AW CASES PLUS THE NUMBER OF DEATHS PER 100 EMPLOYEES IN ONE WORKING YEAR.

PPG INDUSTRIES, INC.

1984 INJURY/ILLNESS EXPERIENCE



PPG INDUSTRIES, INC RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
OPERATIONS SUMMARY

ALL TIME CORPORATE RECORDS
DAYS: 3773 PORTLAND
HOURS 17,357,996 LEXINGTON

	1984	NSC 81-83 RATE YTD	NSC 81-83 3YR AVE	***** DTHS	OSHA CASES AW	OSHA CASES RA	OSHA CASES YTD LW	***** NF	***** TOTAL RC	** AW	OSHA INCIDENCE RA	OSHA INCIDENCE LW	***** NF	***** RC	WORK DAYS LOST YTD AW	WD TDL	AW CASES MO.	WH YTD (000)
MANUFACTURING																		
CHEMICALS GROUP	0 20	0 07	0 40	0	3	76	79	33	112	0 07	1 89	1 96	0 82	2 79	103	1359	0	8041
C&R GROUP	46	0 57	0 41	0	27	58	85	98	183	0 57	1 22	1 80	2 07	3 86	493	1346	0	9470
GLASS GROUP	0 26	0 29	0 49	0	37	210	247	357	604	0 29	1 65	1 95	2 81	4 76	1097	4218	0	25378
TOTAL ALL MFG	0 29	0 31	0 45	0	67	344	411	488	899	0 31	1 60	1 92	2 28	4 19	1693	6923	0	42889
RESEARCH & DEVEL																		
CHEMICALS GROUP	0 00	0 32	0 21	0	1	1	2	1	3	0 32	0 32	0 65	0 32	0 97	8	13	0	617
C&R GROUP	0 00	0 00	0 06	0	0	2	2	12	14	0 00	0 29	0 29	1 76	2 06	0	71	0	1360
GLASS GROUP	0 00	0 00	0 13	0	0	1	1	2	2	0 00	0 21	0 21	0 41	0 41	0	3	0	973
TOTAL ALL R&D	0 00	0 07	0 12	0	1	4	5	15	19	0 07	0 27	0 34	1 22	1 29	8	87	0	2950
SALES & DIST & ADM																		
CHEMICALS GROUP	0 00	0 27	0 52	0	1	1	2	4	6	0 27	0 27	0 53	1 07	1 60	3	5	0	750
C&R GROUP	0 60	0 78	0 83	0	12	12	24	27	51	0 78	0 78	1 55	1 75	3 30	111	210	0	3087
GLASS GROUP	2 16	1 58	2 30	1	56	0	56	174	231	1 55	0 00	1 55	4 81	6 39	1676	1676	0	7229
GENERAL OFFICE	0 09	0 14	0 17	0	3	1	3	6	10	0 14	0 05	0 14	0 28	0 46	186	188	0	4323
TOTAL ALL SLS-DIST	1 02	0 95	1 13	1	72	14	85	211	298	0 94	0 18	1 10	2 74	3 87	1976	2079	0	15389
TOTAL GROUPS & ADM																		
CHEMICALS	0 17	0 11	0 40	0	5	78	83	38	121	0 11	1 66	1 76	0 81	2 57	114	1377	0	9408
COATINGS & RESINS	0 48	0 56	0 50	0	39	72	111	137	248	0 56	1 03	1 60	1 97	3 56	604	1627	0	13917
GLASS	0 62	0 56	0 81	1	93	211	304	533	837	0 55	1 26	1 81	3 17	4 99	2773	5897	0	33580
GENERAL OFFICE	0 09	0 15	0 17	0	3	1	3	5	10	0 15	0 05	0 15	0 25	0 51	164	166	0	3936
TOTAL ALL OPER.	0 47	0 46	0 61	1	140	362	501	713	1216	0 46	1 19	1 65	2 34	4 00	3655	9067	0	60841

DTHS=DEATHS
NF=NON FATAL

AW=AWAY FROM WORK
RC=RECORDABLE CASE

RA=RESTRICTED ACTIVITY
TDL=TOTAL DAYS LOST

LW=LOST WORKDAY
NSC=NATIONAL SAFETY COUNCIL

SL 103496

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
FLAT GLASS

ALL TIME FLAT GLASS RECORDS
DAYS:
HOURS: 8,447,386 CUMBERLAND

	NSC 81-83			***** OSHA CASES YTD *****						** OSHA INCIDENCE *****					WORK DAYS		AW		WH
	1984	RATE	3YR	*****	*****	*****	TOTAL	*****	TOTAL	*****	RATES	YTD	*****	*****	LOST	YTD	CASES	YTD	
	GOAL	YTD	AVE	DTHS	AW	RA	LW	NF	RC	AW	RA	LW	NF	RC	AW	TDL	MO.	(000)	
PRIMARY GLASS																			
MANUFACTURING																			
WKS 4 WICHITA	0.22	0.71	0.39	0	6	5	11	28	39	0.71	0.59	1.30	3.31	4.61	192	579	0	1691	
WKS 6 CARLISLE	0.11	0.00	0.22	0	0	1	1	14	15	0.00	0.12	0.12	1.73	1.86	0	15	0	1614	
WKS 7 CUMBERLAND	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	41	
WKS 8 MEADVILLE	0.17	0.19	0.46	0	1	13	14	21	35	0.19	2.45	2.64	3.96	6.60	15	417	0	1060	
WKS 9 CRYST. CITY	0.25	0.24	0.43	0	1	2	3	12	15	0.24	0.52	0.78	3.12	3.90	15	70	0	769	
WKS 14 MT ZION	0.39	0.97	0.51	0	5	1	6	22	28	0.97	0.19	1.17	4.29	5.46	128	197	0	1026	
WKS 15 FRESNO	0.33	0.35	0.52	0	1	11	12	10	22	0.35	3.84	4.19	3.49	7.68	45	424	0	573	
OWEN SOUND	0.46	0.73	N/A	0	3	1	4	13	17	0.73	0.24	0.97	3.14	4.11	51	77	0	827	
TOTAL PRIM. MFG.	0.25	0.45	0.36	0	17	34	51	120	171	0.45	0.89	1.34	3.16	4.50	446	1779	0	7601	
SALES/DIST/ADMIN																			
CAN ARCH. METALS	0.00	0.00	N/A	0	0	0	0	7	7	0.00	0.00	0.00	4.55	4.55	0	0	0	308	
CAN BRANCHES	1.92	1.41	N/A	0	6	0	6	23	29	1.41	0.00	1.41	5.41	6.82	68	68	0	851	
CAN CCG	3.64	1.53	N/A	0	1	0	1	8	9	1.53	0.00	1.53	12.21	13.74	4	4	0	131	
CAN G.O.	0.00	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	261	
TOTAL SLS/DST/ADM	1.35	0.90	N/A	0	7	0	7	38	45	0.90	0.00	0.90	4.90	5.80	72	72	0	1551	
TOTAL PRIMARY GLS	0.42	0.52	0.36	0	24	34	58	158	216	0.52	0.74	1.27	3.45	4.72	518	1851	0	9152	
COMMERCIAL PRODUCT																			
MANUFACTURING																			
WKS 5 FORD CITY	0.72	0.48	0.88	0	3	5	8	13	21	0.48	0.80	1.27	2.07	3.35	83	277	0	1255	
WKS 19 KOKOMO	0.81	0.00	1.81	0	0	0	0	6	6	0.00	0.00	0.00	2.74	2.74	0	0	0	434	
WKS 20 MARSHALL	0.56	0.00	0.40	0	0	0	0	2	2	0.00	0.00	0.00	0.59	0.59	0	0	0	474	
WKS 21 LINCOLN	0.00	0.00	0.41	0	0	0	0	4	4	0.00	0.00	0.00	3.56	3.56	0	0	0	225	
U.S. METAL FAB.	2.50	1.45	1.01	0	2	0	2	1	3	1.45	0.00	1.45	0.73	2.18	72	72	0	275	
U.S. FAB. PROD.	3.35	1.42	3.54	0	4	0	4	23	27	1.42	0.00	1.42	8.16	9.57	185	185	0	564	
TOTAL MFG.	1.18	0.53	1.42	0	9	5	14	49	63	0.53	0.29	0.82	2.86	3.68	340	534	0	3427	
SALES/DIST/ADMIN																			
TOTAL SALES	0.00	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	48	
TOTAL COMM. PROD.	1.13	0.52	1.42	0	9	5	14	49	63	0.52	0.29	0.81	2.82	3.63	340	534	0	3475	
CONTRACT & DIST.																			
BRANCHES	2.15	2.03	1.87	0	36	0	36	83	119	2.03	0.00	2.03	4.69	6.72	1213	1213	0	3541	
CCG	3.28	1.47	3.46	1	12	0	12	50	63	1.35	0.00	1.35	5.64	7.10	391	391	0	1774	
TOTAL CONT. & DIST	2.67	1.84	2.46	1	48	0	48	133	182	1.81	0.00	1.81	5.00	6.85	1604	1604	0	5315	
TOTAL FLAT MFG	0.45	0.47	0.67	0	26	39	65	169	234	0.47	0.71	1.18	3.06	4.24	786	2313	0	11028	
TOTAL FLAT SLS/DST	2.27	1.62	2.46	1	55	0	55	171	227	1.59	0.00	1.59	4.95	6.57	1676	1676	0	6914	
TOTAL FLAT GLASS	1.08	0.91	1.24	1	81	39	120	340	461	0.90	0.43	1.34	3.79	5.14	2462	3989	0	17942	

DTHS=DEATHS
NF=NON FATAL

AW=AWAY FROM WORK
RC=RECORDABLE CASE

RA=RESTRICTED ACTIVITY
TDL=TOTAL DAYS LOST

LW=LOST WORKDAY
NSC=NATIONAL SAFETY COUNCIL

PPG INDUSTRIES, INC RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
AUTO & AIRCRAFT GLASS

ALL TIME AUTO & AIRCRAFT RECORDS
DAYS 796 CREIGHTON
HOURS: 1,926,742 CREIGHTON

	NSC 81-83 *****					OSHA CASES YTD *****					** OSHA INCIDENCE *****					WORK DAYS		AW	WH
	1984	RATE	3YR	*****	*****	TOTAL	****	TOTAL	*****	*****	RATES	YTD	*****	*****	*****	LOST	YTD	CASES	YTD
	GOAL	YTD	AVE	DTHS	AW	RA	LW	NF	RC	AW	RA	LW	NF	RC	AW	TDL	MO	(000)	
AUTOMOTIVE																			
MANUFACTURING																			
WKS 1 CREIGHTON	0.23	0.23	0.38	0	1	10	11	35	46	0.23	2.27	2.49	7.93	10.42	54	278	0	883	
WKS 26 CRESTLINE	0.14	0.00	0.23	0	0	0	0	16	16	0.00	0.00	0.00	2.34	2.34	0	0	0	1367	
WKS 27 TIPTON	0.15	0.34	0.39	0	2	1	3	9	12	0.34	0.17	0.51	1.54	2.05	64	70	0	1172	
WKS 28 EVANSVLE	0.24	1.09	0.94	0	4	5	9	13	22	1.09	1.37	2.46	3.55	6.01	136	173	0	732	
OSHAWA	0.28	0.23	N/A	0	1	2	3	28	31	0.23	0.46	0.69	6.44	7.13	11	33	0	870	
HAWKESBURY	0.00	0.23	N/A	0	1	0	1	8	9	0.23	0.00	0.23	1.87	2.11	26	26	0	855	
TOTAL AUTOMOTIVE	0.17	0.31	0.42	0	9	18	27	109	136	0.31	0.61	0.92	3.71	4.63	291	580	0	5879	

AIRCRAFT & SPECIALITY																			
MANUFACTURING																			
WKS 22 HUNTSV	0.24	0.00	0.34	0	0	1	1	1	2	0.00	0.21	0.21	0.21	0.41	0	4	0	974	
WKS 24 VALENCIA	0.00	1.14	1.21	0	1	0	1	6	7	1.14	0.00	1.14	6.86	8.00	10	10	0	175	
WKS 40 PAC	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	58	
TECH. DEV.	0.00	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	50	
TOTAL A/S MFG.	0.17	0.16	0.57	0	1	1	2	7	9	0.16	0.16	0.32	1.11	1.43	10	14	0	1257	
SALES/DIST/ADMIN																			
TOTAL SALES/MKT	0.00	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	60	
TOTAL AIR/SPEC.	0.16	0.15	0.57	0	1	1	2	7	9	0.15	0.15	0.30	1.06	1.37	10	14	0	1317	

ARG																			
MANUFACTURING																			
WKS 25 GREENSB.	0.31	0.27	0.96	0	1	2	3	9	12	0.27	0.54	0.81	2.43	3.24	10	44	0	740	
SALES/DIST/ADMIN																			
WKS 29 CHILLIC	0.00	1.19	0.00	0	1	0	1	3	4	1.19	0.00	1.19	3.57	4.76	0	0	0	168	
DEPOTS	0.00	0.00	0.52	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	57	
SALES	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	30	
TOTAL SALES/DST	0.00	0.78	0.47	0	1	0	1	3	4	0.78	0.00	0.78	2.35	3.14	0	0	0	255	
TOTAL ARG	0.23	0.40	0.80	0	2	2	4	12	16	0.40	0.40	0.80	2.41	3.22	10	44	0	995	

TOTAL A&A MFG.	0.18	0.28	0.53	0	11	21	32	125	157	0.28	0.53	0.81	3.17	3.99	311	638	0	7876	
TOTAL A&A SLS/DST	0.00	0.63	0.47	0	1	0	1	3	4	0.63	0.00	0.63	1.90	2.54	0	0	0	315	
TOTAL A&A ALL OPER	0.18	0.29	0.52	0	12	21	33	128	161	0.29	0.51	0.81	3.13	3.93	311	638	0	8191	

DTHS=DEATH
NF=NON FATAL

AW=AWAY FROM WORK
RC=RECORDABLE CASE

RA=RESTRICTED ACTIVITY
TDL=TOTAL DAYS LOST

LW=LOST WORKDAY
NSC=NATIONAL SAFETY COUNCIL

SL 103498

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
FIBERGLASS

ALL TIME FIBERGLASS RECORDS
DAYS:
HOURS: 17,357,996 LEXINGTON

	1984	NSC 81-83 RATE	3YR AVE	***** DTHS	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** TDL	***** MO	***** WH YTD
MANUFACTURING	GOAL	YTD																
WKS 52 SHELBY	0 00	0 00	0 15	0	0	43	43	44	87	0 00	2 79	2 79	2 85	5 64	0	307	0	3083
WKS 53 LEXINGTON	0 00	0 00	0 00	0	0	107	107	19	124	0 00	6 31	6 31	1 12	7 43	0	960	0	3391
TOTAL FIBERGLASS	0 00	0 00	0 08	0	0	150	150	63	213	0 00	4 63	4 63	1 95	6 58	0	1267	0	6474

RESEARCH AND DEVELOPMENT

ALL TIME R&D RECORDS
DAYS: 2,902 O'HARA TOWNSHIP
HOURS:

	1984	NSC 81-83 RATE	3YR AVE	***** DTHS	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** TDL	***** MO	***** WH YTD
RESEARCH & DEVEL.	GOAL	YTD																
WKS 17 HARMARV.	0 00	0 00	0 17	0	0	1	1	1	2	0 00	0 28	0 28	0 28	0 56	0	3	0	720
WKS 51 O'HARA TWP	0 00	0 00	0 00	0	0	0	0	1	1	0 00	0 00	0 00	0 79	0 79	0	0	0	253
TOTAL R&D	0 00	0 00	0 13	0	0	1	1	2	2	0 00	0 21	0 21	0 41	0 41	0	3	0	973

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
DECEMBER, 1984
GLASS GROUP

ALL TIME GLASS GROUP RECRDS
DAYS: 2,902 O'HARA TOWNSHIP
HOURS: 17,357,996 LEXINGTON

	1984	NSC 81-83 RATE	3YR AVE	***** DTHS	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** RA	***** LW	***** NF	***** RC	***** AW	***** TDL	***** MO	***** WH YTD
MANUFACTURING	GOAL	YTD																
AUTO & AIRCRAFT	0 18	0 28	0 53	0	11	21	32	125	157	0 28	0 53	0 81	3 17	3 99	311	638	0	7876
FIBERGLASS	0 00	0 00	0 08	0	0	150	150	63	213	0 00	4 63	4 63	1 95	6 58	0	1267	0	6474
FLAT GLASS	0 45	0 47	0 67	0	26	39	65	169	234	0 47	0 71	1 18	3 06	4 24	786	2313	0	11028
TOTAL ALL MANUF.	0 26	0 29	0 49	0	37	210	247	357	604	0 29	1 65	1 95	2 81	4 76	1097	4218	0	25378
TOTAL ALL R&D	0 00	0 00	0 13	0	0	1	1	2	2	0 00	0 21	0 21	0 41	0 41	0	3	0	973
SALES/DIST/ADMIN.																		
AUTO & AIRCRAFT	0 00	0 63	0 47	0	1	0	1	3	4	0 63	0 00	0 63	1 90	2 54	0	0	0	315
FLAT GLASS	2 27	1 62	2 46	1	55	0	55	171	227	1 59	0 00	1 59	4 95	6 57	1676	1676	0	6914
TOTAL SLS/DST/ADM.	2 16	1 58	2 30	1	56	0	56	174	231	1 55	0 00	1 55	4 81	6 39	1676	1676	0	7229
TOTAL AUTO & AIR	0 18	0 29	0 52	0	12	21	33	128	161	0 29	0 51	0 81	3 13	3 93	311	638	0	8191
TOTAL FIBERGLASS	0 00	0 00	0 08	0	0	150	150	63	213	0 00	4 63	4 63	1 95	6 58	0	1267	0	6474
TOTAL FLAT GLASS	1 08	0 91	1 24	1	81	39	120	340	461	0 90	0 43	1 34	3 79	5 14	2462	3989	0	17942
TOTAL R&D	0 00	0 00	0 13	0	0	1	1	2	2	0 00	0 21	0 21	0 41	0 41	0	3	0	973
TOTAL GLASS ALL OP	0 62	0 56	0 81	1	93	211	304	533	837	0 55	1 26	1 81	3 17	4 99	2773	5897	0	33580

DTHS=DEATHS
NF=NON FATAL

AW=AWAY FROM WORK
RC=RECORDABLE CASE

RA=RESTRICTED ACTIVITY
TDL-TOTAL DAYS LOST

LW=LOST WORKDAY
NSC=NATIONAL SAFETY COUNCIL

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
CHEMICALS GROUP

ALL TIME CHEM GROUP RECORDS
DAYS: 6,973 BARBERTON R&D
HOURS: 10,444,485 BARBERTON

		NSC 81-83		OSHA CASES			YTD	*****			OSHA INCIDENCE					*****		WORK DAYS		AW	WH
	1984	RATE	3YR	*****	*****		TOTAL	*****	TOTAL		*****				*****		LOST	YTD	CASES	YTD	
	GOAL	YTD	AVE	DTHS	AW	RA	LW	NF	RC	AW	RA	LW	NF	RC	AW	TDL	MO	(000)			
MANUFACTURING																					
BARBERTON	0 00	0 00	0 39	0	0	16	16	1	17	0 00	5 96	5 96	0 37	6 33	0	394	0	537			
PPG CAN. INC.	0 00	0 00	0 30	0	0	5	5	2	7	0 00	2 21	2 21	0 88	3 09	0	281	0	453			
FD GLYCOL	0 34	0 00	0 29	0	0	5	5	0	5	0 00	1 58	1 58	0 00	1 58	0	64	0	631			
KALIUM	0 50	0 00	1 01	0	0	0	0	1	1	0 00	0 00	0 00	0 49	0 49	0	0	0	409			
LAKE CHARLES	0 19	0 10	0 44	0	2	29	31	14	45	0 10	1 49	1 60	0 72	2 32	72	476	0	3884			
LA PORTE	0 00	0 00	0 33	0	0	3	3	4	7	0 00	2 73	2 73	3 64	6 36	0	15	0	220			
NATRIUM	0 22	0 11	0 24	0	1	18	19	10	29	0 11	1 96	2 07	1 09	3 15	31	129	0	1839			
STOCKERTOWN	0 00	0 00	1 05	0	0	0	0	1	1	0 00	0 00	0 00	3 33	3 33	0	0	0	60			
CORPUS CHRISTI	0 00	0 00	0 00	0	0	0	0	0	0	0 00	0 00	0 00	0 00	0 00	0	0	0	8			
TOTAL ALL MANUF.	0 20	0 07	0 40	0	3	76	79	33	112	0 07	1 89	1 96	0 82	2 79	103	1359	0	8041			
RESEARCH & DEVEL.																					
BARBERTON	0 00	0 00	0 14	0	0	0	0	1	1	0 00	0 00	0 00	0 42	0 42	0	0	0	474			
CHICAGO	0 00	1 40	0 47	0	1	1	2	0	2	1 40	1 40	2 80	0 00	2 80	8	13	0	143			
TOTAL U S. R&D	0 00	0 32	0 21	0	1	1	2	1	3	0 32	0 32	0 65	0 32	0 97	8	13	0	617			
SALES & DIST.																					
BIOCHEMICALS	0 00	0 00	0 00	0	0	0	0	0	0	0 00	0 00	0 00	0 00	0 00	0	0	0	31			
CARIBE	0 00	0 00	0 00	0	0	0	0	0	0	0 00	0 00	0 00	0 00	0 00	0	0	0	14			
INDUSTRIAL SALES	0 00	0 00	0 00	0	0	0	0	0	0	0 00	0 00	0 00	0 00	0 00	0	0	0	383			
KALIUM	0 00	2 78	0 00	0	1	0	1	0	1	2 78	0 00	2 78	0 00	2 78	3	3	0	72			
PERFORMANCE PROD.	0 00	0 00	0 00	0	0	0	0	0	0	0 00	0 00	0 00	0 00	0 00	0	0	0	16			
STANCHEN CAN.	0 00	0 00	1 41	0	0	1	1	4	5	0 00	0 85	0 85	3 42	4 27	0	2	0	234			
TOTAL ALL SLS&DIST	0 00	0 27	0 52	0	1	1	2	4	6	0 27	0 27	0 53	1 07	1 60	3	5	0	750			
TOTAL ALL OPER.																					
	0 17	0 11	0 40	0	5	78	83	38	121	0 11	1 66	1 76	0 81	2 57	114	1377	0	9408			

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SL 103500

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
COATINGS & RESINS GROUP

ALL TIME C&R GROUP RECORDS
DAYS: 3773 PORTLAND
HOURS: 7,072,501 CLEVELAND

	1984	NSC 81-83	*****	OSHA CASES	YTD	*****	*****	OSHA INCIDENCE	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
	GOAL	YTD	AVE	DTHS	AW	RA	TOTAL	*****	TOTAL	*****	*****	RATES YTD	*****	*****	*****	*****	*****	*****	*****
MANUFACTURING																			
C&R MANUFACTURING																			
BALTIMORE	0.00	0.00	0.39	0	0	0	0	7	7	0.00	0.00	0.00	4.20	4.20	0	0	0	333	
CIRCLEVILLE	0.50	0.00	0.32	0	0	4	4	3	7	0.00	1.75	1.75	1.32	3.07	0	34	0	456	
CLARKSON	0.00	0.36	0.55	0	1	0	1	2	3	0.36	0.00	0.36	0.73	1.09	59	59	0	548	
CLEVELAND	0.17	0.00	0.04	0	0	16	16	17	33	0.00	1.23	1.23	1.31	2.55	0	210	0	2592	
DELAWARE	0.00	0.40	0.34	0	2	3	5	6	11	0.40	0.59	0.99	1.19	2.18	63	97	0	1011	
DOVER	0.00	3.30	1.41	0	3	2	5	2	7	3.30	2.20	5.49	2.20	7.69	19	158	0	182	
EAST POINT	0.37	0.36	0.13	0	1	0	1	11	12	0.36	0.00	0.36	3.96	4.32	25	25	0	555	
HOUSTON	0.00	0.75	1.49	0	1	1	2	5	7	0.75	0.75	1.50	3.75	5.24	46	65	0	267	
OAK CREEK	0.00	0.56	0.20	0	3	14	17	10	27	0.56	2.59	3.15	1.85	5.00	31	265	0	1080	
SPRINGDALE	0.00	0.00	0.11	0	0	3	3	4	7	0.00	0.96	0.96	1.28	2.24	0	29	0	625	
TORONTO	0.69	2.99	0.74	0	4	3	7	6	13	2.99	2.24	5.22	4.48	9.70	112	156	0	268	
TORRANCE	0.47	1.44	0.81	0	3	1	4	4	8	1.44	0.48	1.92	1.92	3.84	26	50	0	417	
TOTAL ALL C&R MFG	0.35	0.43	0.37	0	18	47	65	77	142	0.43	1.13	1.56	1.85	3.41	381	1148	0	8334	
I/A MANUFACTURING																			
BOWERS (US)	0.92	1.98	0.92	0	5	2	7	11	18	1.98	0.79	2.77	4.35	7.11	65	89	0	506	
BOWERS (CAN)	1.54	1.38	0.00	0	1	0	1	1	2	1.38	0.00	1.38	1.38	2.76	6	6	0	145	
HUGHES PRODUCTS	1.98	0.00	2.00	0	0	2	2	4	6	0.00	1.90	1.90	3.81	5.71	0	2	0	210	
PRINTING INKS	1.29	2.18	2.25	0	3	7	10	5	15	2.18	5.09	7.27	3.64	10.91	41	101	0	275	
TOTAL ALL I/A MFG	1.30	1.58	1.36	0	9	11	20	21	41	1.58	1.94	3.52	3.70	7.22	112	198	0	1136	
TOTAL ALL MFG	0.46	0.57	0.41	0	27	58	85	98	183	0.57	1.22	1.80	2.07	3.86	493	1346	0	9470	
RESEARCH & DEVEL.																			
ALL LOCATIONS	0.00	0.00	0.06	0	0	2	2	12	14	0.00	0.29	0.29	1.76	2.06	0	71	0	1360	
SALES & DIST.																			
TRADE SALES																			
SERVICE CTRS E.	N/A	2.18	N/A	0	5	1	6	9	15	2.18	0.44	2.62	3.93	6.55	56	57	0	458	
SERVICE CTRS W.	N/A	1.25	N/A	0	4	5	9	3	12	1.25	1.56	2.81	0.94	3.75	17	73	0	640	
CANADIAN REGION	N/A	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	165	
PROP. SALES E.	N/A	1.02	N/A	0	1	0	1	2	3	1.02	0.00	1.02	2.04	3.06	22	22	0	196	
PROP. SALES W.	N/A	1.29	N/A	0	2	0	2	0	2	1.29	0.00	1.29	0.00	1.29	16	27	0	310	
HDM SALES	N/A	0.00	N/A	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	24	
DEALER SALES	N/A	0.00	N/A	0	0	1	1	0	1	0.00	0.80	0.80	0.00	0.80	0	0	0	249	
TOTAL ALL TRADE	0.60	1.18	1.03	0	12	7	19	14	33	1.18	0.69	1.86	1.37	3.23	111	179	0	2042	
DISTRIBUTION																			
DIST CENTERS	1.14	0.00	0.98	0	0	1	1	1	2	0.00	1.06	1.06	1.06	2.13	0	5	0	168	
DIST CENT CAN	2.50	0.00	2.75	0	0	1	1	2	3	0.00	3.17	3.17	6.35	9.52	0	6	0	63	
INDUSTRIAL SALES	0.00	0.00	0.00	0	0	0	0	1	1	0.00	0.00	0.00	0.90	0.90	0	0	0	223	
DITZLER WHSE.	0.00	0.00	0.00	0	0	3	3	7	10	0.00	2.11	2.11	4.91	7.02	0	20	0	285	
REFINISH SALES	0.00	0.00	0.25	0	0	0	0	2	2	0.00	0.00	0.00	1.40	1.40	0	0	0	286	
TOTAL ALL DIST.	0.59	0.00	0.41	0	0	5	5	13	18	0.00	0.96	0.96	2.49	3.44	0	31	0	1045	
TOTAL ALL SLS-DIST	0.60	0.78	0.83	0	12	12	24	27	51	0.78	0.78	1.55	1.75	3.30	111	210	0	3087	
TOTAL ALL OPER.	0.48	0.56	0.50	0	39	72	111	137	248	0.56	1.03	1.60	1.97	3.56	604	1627	0	13917	

DTHS=DEATHS
NF=NON FATAL

AW=AWAY FROM WORK
RC=RECORDABLE CASE

RA=RESTRICTED ACTIVITY
TDL=TOTAL DAYS LOST

LW=LOST WORKDAY
NSC=NATIONAL SAFETY COUNCIL

SL 103501

PPG INDUSTRIES, INC. RECORDABLE WORK INJURY AND ILLNESS REPORT
1984 YEAR END REPORT
DETAILED OPERATIONS SUMMARY

ALL TIME CORPORATE RECORDS
DAYS 3,773 PORTLAND
HOURS: 17,357,996 LEXINGTON

		NSC 81-83			***** OSHA CASES YTD *****			***** OSHA INCIDENCE *****			***** OSHA RATES YTD *****			WORK DAYS		AW		WH	
		1984	RATE	3YR	*****	*****	TOTAL	*****	TOTAL	*****	RATES	YTD	*****	*****	LOST	YTD	CASES	YTD	
		GOAL	YTD	AVE	DTHS	AW	RA	LW	NF	RC	AW	RA	LW	NF	RC	AW	TDL	MO (000)	
MANUFACTURING																			
CHEM	A/P U S	0.00	0.00	0.40	0	0	19	19	6	25	0.00	4.61	4.61	1.45	6.06	0	409	0 825	
CHEM	A/P CAN.	0.50	0.00	1.01	0	0	0	0	1	1	0.00	0.00	0.00	0.49	0.49	0	0	0 409	
CHEM	A/P ALL	0.21	0.00	0.50	0	0	19	19	7	26	0.00	3.08	3.08	1.13	4.21	0	409	0 1234	
CHEM	ICD U S	0.21	0.09	0.37	0	3	52	55	24	79	0.09	1.64	1.73	0.76	2.49	103	669	0 6354	
CHEM	ICD CAN.	0.00	0.00	0.30	0	0	5	5	2	7	0.00	2.21	2.21	0.88	3.09	0	281	0 453	
CHEM	ICD ALL	0.20	0.09	0.37	0	3	57	60	26	86	0.09	1.67	1.76	0.76	2.53	103	950	0 6807	
CHEM	GROUP U S	0.19	0.06	0.38	0	3	71	74	30	104	0.08	1.98	2.06	0.84	2.90	103	1078	0 7179	
CHEM	GROUP CAN.	0.24	0.00	0.63	0	0	5	5	3	8	0.00	1.16	1.16	0.70	1.86	0	281	0 862	
CHEM	GROUP ALL	0.20	0.07	0.40	0	3	76	79	33	112	0.07	1.89	1.96	0.82	2.79	103	1359	0 8041	
C&R	GROUP U.S.	0.44	0.49	0.39	0	21	55	76	89	165	0.49	1.29	1.79	2.09	3.88	316	1125	0 8509	
C&R	GROUP CAN.	0.64	1.25	0.58	0	6	3	9	9	18	1.25	0.62	1.87	1.87	3.75	177	221	0 961	
C&R	GROUP ALL	0.46	0.57	0.41	0	27	58	85	98	183	0.57	1.22	1.80	2.07	3.86	493	1346	0 9470	
F/G	U S	0.00	0.00	0.08	0	0	150	150	63	87	0.00	4.63	4.63	1.95	2.69	0	1267	0 6474	
F/G	CAN	N/A																	
F/G	ALL	0.00	0.00	0.08	0	0	150	150	63	87	0.00	4.63	4.63	1.95	2.69	0	1267	0 6474	
GLS	A/A U.S.	0.19	0.29	0.53	0	9	19	28	89	117	0.29	0.62	0.91	2.89	3.80	274	579	0 6151	
GLS	A/A CAN.	0.14	0.23	N/A	0	2	2	4	36	40	0.23	0.23	0.46	4.17	4.64	37	59	0 1725	
GLS	A/A ALL	0.18	0.28	0.53	0	11	21	32	125	157	0.28	0.53	0.81	3.17	3.99	311	638	0 7876	
GLS	FLAT U.S.	0.44	0.45	0.67	0	23	38	61	156	217	0.45	0.75	1.20	3.06	4.25	735	2236	0 10201	
GLS	FLAT CAN.	0.46	0.73	N/A	0	3	1	4	13	17	0.73	0.24	0.97	3.14	4.11	51	77	0 827	
GLS	FLAT ALL	0.45	0.47	0.67	0	26	39	65	169	234	0.47	0.71	1.18	3.06	4.24	786	2313	0 11028	
GLS	GROUP U.S.	0.26	0.28	0.49	0	32	207	239	308	421	0.28	1.81	2.09	2.70	3.69	1009	4082	0 22826	
GLS	GROUP CAN.	0.26	0.39	N/A	0	5	3	8	49	57	0.39	0.24	0.63	3.84	4.47	88	136	0 2552	
GLS	GROUP ALL	0.26	0.29	0.49	0	37	210	247	357	480	0.29	1.65	1.95	2.81	4.76	1097	4218	0 25378	
TOTAL U.S. MFG.		0.29	0.29	0.45	0	56	333	389	427	690	0.29	1.73	2.02	2.22	3.58	1428	6285	0 38514	
TOTAL CAN. MFG.		0.34	0.50	0.61	0	11	11	22	61	83	0.50	0.50	1.01	2.79	3.79	265	638	0 4375	
TOTAL ALL MFG		0.29	0.31	0.45	0	67	344	411	488	899	0.31	1.60	1.92	2.28	4.19	1693	6923	0 42889	
RESEARCH & DEVELOP																			
CHEM	A/P U.S.	0.00	1.40	0.47	0	1	1	2	0	2	1.40	1.40	2.80	0.00	2.80	8	13	0 143	
CHEM	A/P CAN.	N/A		N/A															
CHEM	A/P ALL	0.00	1.40	0.47	0	1	1	2	0	2	1.40	1.40	2.80	0.00	2.80	8	13	0 143	
CHEM	ICD U.S.	0.00	0.00	0.14	0	0	0	0	1	1	0.00	0.00	0.00	0.42	0.42	0	0	0 474	
CHEM	ICD CAN.	N/A		N/A															
CHEM	ICD ALL	0.00	0.00	0.14	0	0	0	0	1	1	0.00	0.00	0.00	0.42	0.42	0	0	0 474	
CHEM	GROUP U.S.	0.00	0.32	0.21	0	1	1	2	1	3	0.32	0.32	0.65	0.32	0.97	8	13	0 617	
CHEM	GROUP CAN.	N/A		N/A															
CHEM	GROUP ALL	0.00	0.32	0.21	0	1	1	2	1	3	0.32	0.32	0.65	0.32	0.97	8	13	0 617	
C&R	GROUP U.S.	0.00	0.00	0.06	0	0	2	2	12	14	0.00	0.29	0.29	1.76	2.06	0	71	0 1360	
C&R	GROUP CAN.	N/A		N/A															
C&R	GROUP ALL	0.00	0.00	0.06	0	0	2	2	12	14	0.00	0.29	0.29	1.76	2.06	0	71	0 1360	
F/G	U.S.	0.00	0.00	0.00	0	0	1	1	1	2	0.00	0.28	0.28	0.28	0.56	0	3	0 720	
F/G	CAN.	N/A		N/A															
F/G	ALL	0.00	0.00	0.00	0	0	1	1	1	2	0.00	0.28	0.28	0.28	0.56	0	3	0 720	
GLS	A/A U.S.	N/A		N/A															
GLS	A/A CAN.	N/A		N/A															
GLS	A/A ALL	N/A		N/A															
GLS	FLAT U S	N/A		N/A															
GLS	FLAT CAN.	N/A		N/A															
GLS	FLAT ALL	N/A		N/A															
GLS	GROUP U S	0.00	0.00	0.13	0	0	1	1	2	2	0.00	0.21	0.21	0.41	0.41	0	3	0 973	
GLS	GROUP CAN.	N/A		N/A															

GLS GROUP ALL	0.00	0.00	0.13	0	0	1	1	2	2	0.00	0.21	0.21	0.41	0.41	0	3	0	973
TOTAL U.S. R&D	0.00	0.07	0.12	0	1	4	5	15	31	0.07	0.27	0.34	1.02	2.10	8	87	0	2950
TOTAL CAN. R&D	N/A		N/A															
TOTAL ALL R&D	0.00	0.07	0.12	0	1	4	5	15	19	0.07	0.27	0.34	1.02	1.29	8	87	0	2950

SALES/DIST ADMIN.

CHEM A/P U.S.	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	47
CHEM A/P CAN.	N/A		N/A	0	1	0	1	0	1	2.78	0.00	2.78	0.00	2.78	3	3	0	72
CHEM A/P ALL	0.00	1.50	0.00	0	1	0	1	0	1	1.50	0.00	1.50	0.00	1.50	3	3	0	133
CHEM. ICD U.S.	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	383
CHEM. ICD CAN.	0.00	0.00	1.41	0	0	1	1	4	5	0.00	0.85	0.85	3.42	4.27	0	2	0	234
CHEM. ICD ALL	0.00	0.00	0.70	0	0	1	1	4	5	0.00	0.32	0.32	1.30	1.62	0	2	0	617
CHEM. GROUP U.S.	0.00	0.00	0.00	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0	0	0	430
CHEM. GROUP CAN.	0.00	0.00	1.41	0	0	1	1	4	5	0.00	0.85	0.85	3.42	4.27	0	2	0	234
CHEM. GROUP ALL	0.00	0.27	0.52	0	1	1	2	4	6	0.27	0.27	0.53	1.07	1.60	3	5	0	750
C&R GROUP U.S.	0.58	0.84	0.79	0	12	11	23	25	48	0.84	0.77	1.61	1.75	3.36	111	204	0	2859
C&R GROUP CAN.	0.80	0.00	2.75	0	0	1	1	2	3	0.00	0.88	0.88	1.75	2.63	0	6	0	228
C&R GROUP ALL	0.60	0.78	0.83	0	12	12	24	27	51	0.78	0.78	1.55	1.75	3.30	111	210	0	3087
F/G U.S.	N/A		N/A															
F/G CAN.	N/A		N/A															
F/G ALL	N/A		N/A															
GLS A/A U.S.	0.00	0.63	0.47	0	1	0	1	3	4	0.63	0.00	0.63	1.90	2.54	0	0	0	315
GLS A/A CAN.	N/A		N/A															
GLS A/A ALL	0.00	0.63	0.47	0	1	0	1	3	4	0.63	0.00	0.63	1.90	2.54	0	0	0	315
GLS. FLAT U.S.	2.61	1.83	2.46	1	48	0	48	133	182	1.79	0.00	1.79	4.96	6.79	1604	1604	0	5363
GLS. FLAT CAN.	1.35	0.90	N/A	0	7	0	7	38	45	0.90	0.00	0.90	4.90	5.80	72	72	0	1551
GLS. FLAT ALL	2.27	1.62	2.46	1	55	0	55	171	227	1.59	0.00	1.59	4.95	6.57	1676	1676	0	6914
GLS. GROUP U.S.	2.43	1.76	2.30	1	49	0	49	136	186	1.73	0.00	1.73	4.79	6.55	1604	1604	0	5678
GLS. GROUP CAN.	1.35	0.90	N/A	0	7	0	7	38	45	0.90	0.00	0.90	4.90	5.80	72	72	0	1551
GLS. GROUP ALL	2.16	1.58	2.30	1	56	0	56	174	231	1.55	0.00	1.55	4.81	6.39	1676	1676	0	7229
G O. ADMIN.	0.09	0.14	0.17	0	3	1	3	6	10	0.14	0.05	0.14	0.28	0.46	186	186	0	4323
TOTAL US SLS/DST	1.02	0.98	1.15	1	64	12	75	167	244	0.96	0.18	1.13	2.51	3.67	1901	1994	0	13290
TOTAL CAN SLS/DST	1.09	0.70	1.69	0	7	2	9	44	53	0.70	0.20	0.89	4.37	5.27	72	80	0	2013
TOTAL ALL SLS/DST	1.02	0.96	1.13	2	72	14	85	211	298	0.94	0.18	1.10	2.74	3.87	1976	2079	0	15389

TOTALS FOR ALL OPERATIONS

CHEM. A/P U.S.	0.00	0.20	0.38	0	1	20	21	6	27	0.20	3.94	4.14	1.18	5.32	8	422	0	1015
CHEM. A/P CAN.	0.30	0.42	1.01	0	1	0	1	1	2	0.42	0.00	0.42	0.42	0.83	3	3	0	481
CHEM A/P ALL	0.14	0.24	0.46	0	2	20	22	7	29	0.26	2.65	2.91	0.93	3.84	11	425	0	1510
CHEM ICD U.S.	0.19	0.08	0.34	0	3	52	55	25	80	0.08	1.44	1.53	0.69	2.22	103	669	0	7211
CHEM. ICD CAN.	0.00	0.00	0.73	0	0	4	4	4	12	0.00	1.75	1.75	1.75	3.49	0	283	0	687
CHEM. ICD ALL	0.17	0.08	0.38	0	3	58	61	31	92	0.08	1.47	1.54	0.79	2.33	103	952	0	7898
CHEM. GROUP U.S.	0.17	0.10	0.35	0	4	72	76	31	107	0.10	1.75	1.85	0.75	2.40	111	1091	0	8226
CHEM. GROUP CAN.	0.18	0.00	0.83	0	0	4	4	7	13	0.00	1.09	1.09	1.28	2.37	0	283	0	1096
CHEM. GROUP ALL	0.17	0.11	0.40	0	5	78	83	38	121	0.11	1.66	1.76	0.81	2.57	114	1377	0	9408
C&R GROUP U.S.	0.46	0.52	0.48	0	33	68	101	126	227	0.52	1.07	1.59	1.98	3.57	427	1400	0	12728
C&R GROUP CAN.	0.67	1.01	0.77	0	6	4	10	11	21	1.01	0.67	1.68	1.85	3.53	177	227	0	1189
C&R GROUP ALL	0.48	0.56	0.50	0	39	72	111	137	248	0.56	1.03	1.60	1.97	3.56	604	1627	0	13917
F/G U.S.	0.00	0.00	0.07	0	0	151	151	64	89	0.00	4.20	4.20	1.78	2.47	0	1270	0	7194
F/G CAN.	N/A		N/A															
F/G ALL	0.00	0.00	0.07	0	0	151	151	64	89	0.00	4.20	4.20	1.78	2.47	0	1270	0	7194
GLS. A/A U.S.	0.18	0.31	0.52	0	10	19	29	92	121	0.31	0.59	0.90	2.85	3.74	274	579	0	6466
GLS. A/A CAN.	0.14	0.23	N/A	0	2	2	4	36	40	0.23	0.23	0.46	4.17	4.64	37	59	0	1725
GLS A/A ALL	0.18	0.29	0.52	0	12	21	33	128	161	0.29	0.51	0.81	3.13	3.93	311	638	0	8191
GLS. FLAT U.S.	1.09	0.93	1.24	1	71	38	109	289	399	0.91	0.49	1.40	3.71	5.13	2339	3840	0	15564
GLS. FLAT CAN.	1.02	0.84	N/A	0	10	1	11	51	62	0.84	0.08	0.93	4.29	5.21	123	149	0	2378
GLS. FLAT ALL	1.08	0.91	1.24	1	81	39	120	340	461	0.90	0.43	1.34	3.79	5.14	2462	3989	0	17942
GLS. GROUP U.S.	0.61	0.56	0.81	1	81	208	289	446	609	0.55	1.41	1.96	3.03	4.13	2613	5689	0	29477
GLS. GROUP CAN.	0.69	0.58	N/A	0	12	3	15	87	102	0.58	0.15	0.73	4.24	4.97	160	208	0	4103
GLS. GROUP ALL	0.62	0.56	0.81	1	93	211	304	533	837	0.55	1.26	1.81	3.17	4.99	2773	5897	0	33580

G O. ADMIN	0 09	0 14	0 17	0	3	1	3	6	10	0 14	0 05	0 14	0 28	0 46	186	188	0 4323
TOTAL U S OPER	0 45	0 45	0 60	1	121	349	469	609	953	0 44	1 27	1 71	2 22	3 48	3337	8368	0 54754
TOTAL CAN OPER	0 59	0 56	0 80	0	18	13	31	105	136	0 56	0 41	0 97	3 29	4 26	337	718	0 6388
TOTAL ALL OPER	0 47	0 46	0 61	1	140	362	501	714	1216	0 46	1 18	1 64	2 33	3 97	3677	9089	0 61228

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