U.S. Fire Administration/Technical Report Series

Sherwin-Williams Paint Warehouse Fire

Dayton, Ohio

With Supplement on Sandoz Chemical Plant Fire

Basel, Switzerland

USFA-TR-009/May 1987



U.S. Fire Administration Fire Investigations Program

The fires usually involve multiple deaths or a large loss of property. But the primary criterion for deciding to do a report is whether it will result in significant "lessons learned." In some cases these lessons bring to light new knowledge about fire--the effect of building construction or contents, human behavior in fire, etc. In other cases, the lessons are not new but are serious enough to highlight once again, with yet another fire tragedy report. In some cases, special reports are developed to discuss events, drills, or new technologies which are of interest to the fire service.

The reports are sent to fire magazines and are distributed at National and Regional fire meetings. The International Association of Fire Chiefs assists the USFA in disseminating the findings throughout the fire service. On a continuing basis the reports are available on request from the USFA; announcements of their availability are published widely in fire journals and newsletters.

This body of work provides detailed information on the nature of the fire problem for policymakers who must decide on allocations of resources between fire and other pressing problems, and within the fire service to improve codes and code enforcement, training, public fire education, building technology, and other related areas.

The Fire Administration, which has no regulatory authority, sends an experienced fire investigator into a community after a major incident only after having conferred with the local fire authorities to insure that the assistance and presence of the USFA would be supportive and would in no way interfere with any review of the incident they are themselves conducting. The intent is not to arrive during the event or even immediately after, but rather after the dust settles, so that a complete and objective review of all the important aspects of the incident can be made. Local authorities review the USFA's report while it is in draft. The USFA investigator or team is available to local authorities should they wish to request technical assistance for their own investigation.

For additional copies of this report write to the U.S. Fire Administration, 16825 South Seton Avenue, Emmitsburg, Maryland 21727. The report is available on the Administration's Web site at http://www.usfa.dhs.gov/

Sherwin-Williams Paint Warehouse Fire Dayton, Ohio

With Supplement on Sandoz Chemical Plant Fire Basel, Switzerland

Investigated by: Tom D. Copeland
Philip Schaenman

This is Report 009 of the Major Fires Investigation Project conducted by TriData Corporation under contract EMW-86-C-2277 to the United States Fire Administration, Federal Emergency Management Agency.



Department of Homeland Security United States Fire Administration National Fire Data Center

U.S. Fire Administration Mission Statement

As an entity of the Department of Homeland Security, the mission of the USFA is to reduce life and economic losses due to fire and related emergencies, through leadership, advocacy, coordination, and support. We serve the Nation independently, in coordination with other Federal agencies, and in partnership with fire protection and emergency service communities. With a commitment to excellence, we provide public education, training, technology, and data initiatives.



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SHERWIN-WILLIAMS PAINT WAREHOUSE FIRE Dayton, Ohio May 27, 1987

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OVERVIEW

The Dayton, Ohio Fire Department avoided a double disaster by not attempting to extinguish a massive fire in a paint warehouse. The fire started on May 27, 1987, and completely destroyed the Sherwin-Williams Paint Warehouse. The dollar loss was \$32 million, but only one employee was seriously injured and one firefighter sprained his leg. The noncombustible, sprinklered warehouse contained over 1.5 million gallons of paints and other products and was located over the aquifer from which wells provided the water supply for about one-third of the area's 400,000 people. Uncontained water and chemical run-off from firefighting could have contaminated this water supply and caused a greater loss than the fire itself, as occurred in Switzerland after the Sandoz Chemical Warehouse fire in 1986 contaminated the Rhine.

SUMMARY OF KEY ISSUES

Issues	Comments
Cause	Spark from lift truck ignited spilled contents of cans.
Industrial Firefighting	Ineffective; could not stop initial fire.
Sprinkler Systems	Overwhelmed
	Helped save office building adjoining warehouse.
	Question whether standard is adequate for this occupancy.
Firewall	Failed.
Incident Command	Highly effective.
	Quick, appropriate decision by first arriving district chief not to let crews in close.
	Courageous decision by Chief Glenn Alexander not to vigorously attack fire with water precluded environmental disaster to aquifer and city water supply.
Insurance	To be paid despite decision not to extinguish.
Municipal Liability	None apparent in this case but cannot generalize.
Prefire Plan	Did not address threat to aquifer.
Environmental Pollution	Apparently little to none.
	Tradeoff of air versus water pollution considered early, unlike Swiss Sandoz fire.
	Air and water experts on the scene early.
Firefighter Safety	A major factor in decision not to fight in close.
	Only one firefighter slightly injured in four-day fire.
Employee Safety	Difficulty in accounting for employees who escaped.
	Only one employee seriously injured.

THE FACILITY

The Sherwin-Williams Paint Warehouse was a large one-story building with an attached office building. An adjoining roofed-over area was used for drum storage. Trailers, some loaded, were located at the docks and within the fenced-in area of the facility. Direct exposure to properties outside the storage complex was minimal. (For a diagram of the site see Figure 1 in Appendix B.)

The main building's outside walls were of "tilt-up" concrete construction with a fire division wall of similar construction dividing the warehouse into two areas. The roof was supported by unprotected steel bar joists and columns. The facility was built in 1977 and contained about 190,000 square feet with walls about 33 feet high.

The building had a sprinkler system and diesel fire pump. The 2,500 gpm fire pump was located in a small detached building. Fire department connections to supplement the system were located on the warehouse side of the pumphouse.

The pump was supplied by a 12-inch line connected to a 16-inch public water main. The pump supplied a 10-inch loop around the site with connections to various sprinkler risers, external exposure

sprinklers along the outside wall at the drum storage, fixed monitors for the drum storage area, and private hydrants. Water flow alarms were monitored by a central station. The ceiling sprinklers had a reported design density of 0.32 gpm per square foot over 4,000 square feet.

The warehouse contained over 1.5 million gallons of paints and related flammable liquids mostly in small containers up to 5-gallon sizes. There was also considerable storage of aerosol cans. Drums were stored outside under the canopy area. Trailers contained additional products. The warehouse had extensive rack type storage, up to four tiers of pallets high. Approximately 30 employees were working at the time of the fire.

THE WATER SYSTEM

The public water supply for Dayton, Ohio and surrounding areas is drawn partly from an aquifer over which the Sherwin-Williams Paint Warehouse was built. The warehouse was within a major well field with wells on and adjacent to the site. (See Appendix D for map of wells.)

Chemicals can migrate down from the surface and contaminate the water. This was a concern when the industrial park where the warehouse was located was first developed. No detailed plans had been made by the fire department to deal with a threat to the water supply, although the threat was anticipated and discussed several years before the fire.

THE FIRE

During the evening of May 27, 1987, a workman using a motorized lift truck accidentally knocked over and spilled several cans of flammable liquid in the east portion of the warehouse. The liquid probably was ignited by a spark from the electric motor of the truck. The lift truck operator received serious burns and was helped by other employees to put out his flames and escape. The employees quickly decided that the fire was beyond their ability to extinguish, and all evacuated without further injuries. They credited company training for knowing what to do.

The Dayton Fire Department received the alarm automatically from the fire alarm central station when the plant's sprinklers activated, along with many calls from the public and employees. Three engines, one truck, and a district chief were dispatched at 2107. While responding, the district chief quickly decided to request a second alarm at 2108. This resulted in four additional engines, two additional trucks, and another district chief. The first engine on the scene reported complete building involvement at 2113. The first-in district chief requested a third alarm as he arrived on the scene at 2114.

A total of 84 Fire Department personnel responded with ten engines, five trucks, and twelve other vehicles. Most of the equipment was staged and not actually used.

The fire was through the roof, and the east half of the warehouse was totally involved when the first units arrived. Aerosol cans were raining on the crews and hurtling for distances. The initial concerns were for protecting the drum storage, office, and other exposures, and for fire fighter safety. The district chief quickly decided not to let his fire fighters hook up to the sprinkler supply of the pumphouse, which was close to the wall of the warehouse and exposed to intense heat, danger from exploding and the hurtling cans, and the threat of a wall collapse. Also, it was thought that the sprinkler system was probably compromised already. The initial attack was directed at the office, drum storage, and loaded trailers in the docking and parking areas.

The fire spread past the fire wall and was involving the west half of the warehouse before plans could be implemented to cut the fire off at the wall. At 2132, the dispatcher was advised that the building would be a total loss. (The fire ultimately did destroy the main warehouse, and 17 trailers also were heavily or totally damaged. The office, its records, and the outdoor drum storage were saved.)

The warehouse sprinkler system was overwhelmed almost immediately and had little impact on the main fire. Water was observed discharging from broken sprinkler piping early in the fire. Sprinklers did apparently contribute to saving the office building. The fire pump supplying the sprinklers was manually shut down at about 2235 or 2245.

Automatically opening plastic vents almost directly over the incipient fire operated early and may have released heat that otherwise would have built up quickly and caused more sprinkler heads to go off, suggested Dayton Chief Glenn Alexander. In any event, the sprinkler system design was not adequate for controlling this fire.

Chief Alexander assumed incident command early on and ordered that no water be applied to the fire in the warehouse. Water was to be used only to protect exposures and to extinguish fires where the run off could be monitored on paved areas. Because of his concern about the water supply well field, Chief Alexander called the director of the water department prior to responding and requested the director to meet him at the scene.

The contents of the warehouse, the problem of air pollution versus water pollution, and other conditions were considered. In addition to local water authorities, state air and water pollution experts were on the scene the first day. It was agreed that it would be best not to increase the threat to the water system by applying water to the warehouse fire. The smoke was not causing a direct life safety exposure and was described as being similar in hazard to diesel exhaust.

Douglas Hall, Environmental Protection Manager for the Dayton Water Department, said the early decision not to put water on this fire was clear cut. The decision was made easier due to the knowledge that there were no highly toxic materials present and no residential areas close-by. If it had not been for the threat to the underground water supply, they probably would have recommended applying water to the fire and controlling run-off. Although the fire department avoided applying much water to the warehouse itself, the sprinkler system's 2,500-gpm fire pump did operate for a while and there also was runoff from the initial attack. Thus some contaminated water reached the nearby Miami River. On day one of the fire, paint solvents were skimmed and pumped from the river. A water containment dike was started on the fourth day of the fire in preparation for the final extinguishment operation. Since the fire, numerous test and recovery wells have been dug. There is some ground contamination, but the contamination apparently is being managed and has not yet affected the water supply.

The fire was reported contained at 0012 hours on May 28, 1987, but not under control until 1004 hours on June 2, 1987, almost six days after it started.

CODE COMPLIANCE

The warehouse was in compliance with the Ohio Building Code, as best could be determined. That code allowed unlimited space in the warehouse so long as it was fully sprinklered. No performance standards or guidelines are provided in the code as to what constitutes adequate sprinklering for such a facility.

There is some question as to what would be the most cost-effective fire protection design that would comply with the code for a warehouse such as this, full of highly flammable liquids.

One alternative is to subdivide the building into many compartments, each with a high flow sprinkler system--practically like preparing to flood a magazine compartment on a ship. Another is to build large open spaces with few firewalls, lower flow sprinkler system that may handle some fires (such as cardboard cartons igniting or a small spill) but not one such as occurred. A third approachnot in compliance with most codes--is to build a lightweight, "disposable" building or shed (such as was involved in the Swiss Sandoz Chemical Warehouse fire discussed in the supplement) but built in a safe, remote environment (unlike the Sandoz fire) where it could be allowed to burn. Containment ponds and dams can be built-in to catch water runoff if water pollution could be a problem. Further fire protection studies are needed to examine the various other options for such warehouses.

LIABILITY

Was the fire department exposed to liability suits by deciding not to extinguish the fire? Do insurance companies have to pay insurance in these cases? In this case, the answers were largely moot because the building was judged to be on its way to becoming a total loss when the decision was made, and the insurance company tentatively agreed to pay the loss without protest. Here is a synopsis of the liability situation, but this is no substitute for seeking legal advice for your own area.

- 1. The fire department has very broad rights to take action in an emergency. It even can destroy property to save other property; for example, during the San Francisco earthquake of 1906, rows of buildings were dynamited to provide a fire break to stop the fire. The owners, however, can seek indemnification from the city for destroying their property. The insurance company also can sue.
- 2. The fire department and the city can be liable for negligence (unreasonable actions) unless state statutes limit that liability or unless the cities have "sovereign immunity." Most states no longer recognize the latter. States vary in their liability laws. Liability questions need to be answered state by state.
- 3. Most states have laws that limit the liability of a fire department for negligence or poor judgment. The limit may be zero as in California. In Minnesota, it is \$300,000 or the limit of negligence insurance it carries, whichever is greater.
- 4. If a fire department decides to let a building burn that could have been saved in order to protect a greater loss to the community, they could be sued by any party--the property owner, insurance company, public, etc., if found negligent, then 2) applies. If not, they are home free--except for legal expenses.
- 5. The insurance company usually has to pay for the loss regardless of the fire department actions. Although the insurance company reasonably expects the fire department to fight a fire if their insured property burned, it is their hard luck if the fire department does not fight the fire. However, knowing this possibility exists may cause premiums to go up for properties that could cause pollution if they burn. Also, the insurance company might claim that the building owner did not reveal all hazards, and try to hold back a part or much of the insurance, or delay payment.

- 6. The insurance company might have to pay for environmental damage up to the limit of the policy as part of fire losses. It depends on the details of the policy and/or the details of the situation.
- 7. This is all on the edge of a new area legally, environmentally, ethically, and from fire fighting points of view. It needs further exploration. Fire departments should discuss the issue with local city attorneys. The fire department, while it generally appears to be safe, may fall into some loophole or have an adverse interpretation of the law in light of the new circumstances.

LESSONS LEARNED

1. **Risk Management**--The most important lesson learned because of this fire is not simply that some fires should be allowed to burn but that the consequences of all actions and "inactions" must be knowledgeably considered.

Chief Alexander describes today's fire chiefs as "risk managers." This is a good application of the term and broadens a chief's role and responsibility. Risk management of such fires as this involves the consideration of:

Characteristics of materials and chemicals involved Air versus water pollution
Wind and weather conditions
Capability to extinguish or control the fire;
Ability to contain run-off
Short-term versus delayed hazards
Life safety and property exposure
Evacuation problems.

- 2. **Water Pollution**--In this fire, the decision not to apply water to the warehouse fire resulted in far less contamination to the ground water and little if any difference in property loss. State and local air and water pollution experts were brought to the scene early to consult. The Swiss Sandoz Chemical Plant fire, which polluted the Rhine, demonstrated what can happen when water run off is not considered. (A summary of that fire is presented below.) However, it may not always be possible to allow such fires to burn when there is a high exposure hazard or an air pollution problem. Applying water to avoid a fire or air pollution catastrophe may be the lesser evil at times; it depends on the situation. Containment of water runoff should be a consideration both in prefire planning and in planning fire protection systems for a structure or complex which has significant amounts of hazardous materials.
- 3. **Insurance and Law Suits**--According to Chief Alexander, the insurance company for the warehouse said it will not sue the Fire Department for not applying water to extinguish the warehouse fire. A key factor here was that the warehouse building was essentially a total loss at the time the decision to stop applying water was made by the Chief. If the building could have been saved, the same finding might not have been made.

The liability of the city might have been much greater if the water supply had been damaged, let alone the adverse local and national publicity that would surely have ensued. Nevertheless, fire departments that plan ahead of time to let a fire burn because of environmental considerations should one occur on a particular property need to discuss that possibility beforehand with the city attorney and the property owner as part of pre-fire planning.

4. **Sprinkler Systems**--Two important fire safety features provided in this warehouse failed: the sprinkler system and the firewall. Apparently, the sprinkler system was quickly overwhelmed and could not provide the necessary water density. This may have been affected by the venting system releasing heat directly above the incipient fire and stopping heat build-up that might have triggered other heads quickly. The system was considered in compliance with current standards and the Ohio codes; Chief Alexander has called for a reexamination of the standards for such high-risk occupancies.

Turning off the fire pump and then the water supply to the warehouse was a calculated risk primarily in regard to the office area. The warehouse was not being affected by the sprinkler system, but the office area had been saved to that point by several heads that operated. It was felt that the threat to the aquifer outweighed the potential loss of the office building. However, after the fire, the office building was found to have received very little damage.

- 5. **Firewall**--The fire wall did not withstand the rapid fire build-up and intense exposure. A hole developed in it. Chief Alexander stated that the fire doors in the firewall did close except in one case where only a door on one side of the wall closed. The opposite door was jammed by debris. The opening was protected by the door from one side. Again, standards for firewalls in such high-risk facilities need to be reexamined.
- 6. **Firefighter Safety**--It was remarkable and a tribute to Dayton's Incident Command and fire fighters that they sustained only one minor injury in the course of this fire. (It was a strained leg from lifting hose.) As it should be, fire fighter safety was considered right from the early decisions not to supply the sprinkler system and to pull units well away from the walls.
- 7. **Land Development Decision**--The threat to the aquifers would not have existed if the paint storage facility had not been allowed to be built amidst the water well field. The city had had second thoughts about allowing development on this land and had stopped the full development originally planned. Environmental impacts need to be and often are a major factor in land development decisions. Potential impacts from fires are not always considered in these studies, and fire departments should try to make sure that they are where appropriate.
- 8. **Employee Training**--A Sherwin-Williams employee accidentally started the fire. Whether such fires can be totally prevented is debatable, and may not be economically feasible (e.g.; not allowing equipment that can produce sparks anywhere near flammable liquids should there be breakage and a spill.)
 - The employees were well trained to evacuate quickly and rendezvous, and to extinguish the flames on the clothes of the lift truck driver. However, the place they were to rendezvous at was being barraged by exploding canisters, so the employees did not stay together, and a head count could not be taken to ensure all had escaped. Unnecessary time was spent tracking them down and ensuring that no one was missing. Employees should be instructed to go to a meeting place that, as far as can be determined in advance, will be safe and/or to check in after a disaster occurs.
- 9. **Incident Reporting**--Training is needed to ensure consistent and accurate reporting of fire incidents. In this case, for example, the sprinkler systems operated, but were not so reported. With understandable intent, the fire officer filling out the report noted that the sprinkler performance was "other--not described above" because the sprinklers were overwhelmed. In analyzing this data across many fires, this clear case of sprinkler system failure would not have been counted.

10. **Incident Command**—The fire was a near textbook example of the use of a good incident command system. Higher level chiefs smoothly took over as incident commander as the alarms built up. There were no major communications problems. The dispatchers did a good job of coping with a large number of callers who reported the fire or asked about its risk. The incident command helped hold casualties and losses down.

Because historically the objective of firefighters has been to extinguish hostile fires, it is hoped that a review of this fire will make it apparent that risk management is a higher objective and that it is necessary to make decisions that result in the lowest possible immediate and long-term loss even if that means letting the fire burn.

It is instructive to compare the results of the Sherwin-Williams fire with the 1986 fire in the Sandoz Chemical Plant in Basel, Switzerland, which is described in the following supplement.

SUPPLEMENT

Pollution of Rhine River Due to Runoff from Sandoz Chemical Plant Fire in Basel, Switzerland¹

hirty tons of toxic material washed into the Rhine River with water firefighters used to fight a warehouse blaze at a riverside Sandoz Chemical Plant and Storage Facility near Basel, Switzerland in the early morning hours of November 1, 1986.

By the time the chemicals, mostly pesticides, had traveled 500 miles down the winding scenic river, half a million fish were dead, several municipal water supplies were contaminated, and the Rhine's ecosystem was badly damaged with virtually all marine life and a large proportion of microorganisms wiped out.

The approximately 25-mile-long chemical slick drifted slowly downstream from the

Swiss border to the North Sea. It contained about 30 tons of insecticides, herbicides, and mercury-containing pesticides, and threatened the North Sea's winter cod harvest. Environmental groups called for a boycott of Sandoz products.

In the weeks following the fire, citizen protest rallies occurred, the Swiss government as well as Sandoz Corporation received damage claims from other countries, and Switzerland had to respond to strong criticism for its handling of the emergency from France, West Germany, the Netherlands, Luxemburg, and the Common Market Commission.

THE FACILITY

The warehouse where the fire started was built in 1967. It was part of a large Sandoz chemical complex in Schweizerhalle, a small community six miles east of Basel on the Rhine's left bank. The warehouse was about 295 feet long by 82 feet wide, with an adjoining second half another 82 feet wide separated from the first by a wall down the length of the building. It had no sprinklers because the risk of a fire was considered low. The building in effect was a light shed intended to provide shelter from rain and extremes of temperature, rather than being a solid warehouse. Its height ranged from 26 feet to a peak of 39 feet.

The half of the building where the fire started was stacked with about 1,250 tons of chemicals in barrels four pallets high, somewhat like the Sherwin-Williams storage. The chemicals stored were mainly flammable liquids, including pesticides, fungicides, and herbicides, some with 30 degrees C flashpoint. Among these were phosphoric acid and organic mercury compounds. Among additional raw materials present were ferric ferrocyanide, which may have been a key factor in the ignition sequence. The other half (82 foot width) of the building had mostly harmless chemicals.

¹The following sources were used in this supplement: Associated Press stories following the fire; a presentation by Hans Wackerlig, Fire Prevention Service, Zurich Switzerland at the NFPA Fall Meeting, Portland, Oregon, November, 1987; personal discussion between Wackerlig and Philip Schaenman, November, 1987, "The Lessons Learned From the Sandoz Fire," Hans Wackerlig, 1987.

THE INCIDENT

In response to simultaneous reports by a police highway patrol alarm and the plant night watchman at 0019 on November 1, 1986, three Sandoz plant brigade fire fighters and the chief responded to the warehouse. Flames were shooting from the roof when the fire was first noticed. Upon arrival, the chief immediately realized that he could not cope with the situation alone and called for an all-out alarm. By 0045, 200 fire fighters were in action at the scene.

The cause of the fire has not been positively determined. It might have been started by the ignition of the ferric (ferrocyanide in the warehouse) by a butane-powered machine used to shrink-package chemicals in plastic films. The ferrocyanide was being packaged earlier in the day. This chemical has the insidious property--discovered only after the fire--of smoldering without releasing any smoke or odor, and then suddenly breaking into almost explosive burning. Ironically, the packaging of the chemicals was started by a zealous employee who wanted to tidy up the storage. While this seems the likely cause, arson has not been ruled out.

Because the fire was not discovered until it was already large and being fed by a warehouse full of highly flammable chemicals, it was accepted from the start that the warehouse would be a total loss. Attention was focused on stopping exposure fires, no mean task since barrels of flammable chemicals were hurtling through the air. At first the fire fighting was defensive, but then the chief decided to try to extinguish the fire with massive amounts of water to stop the fire spread and avoid a catastrophe to the nearby city and three major chemical complexes nearby. There also was a great deal of attention given to the risk from the possibility of toxic clouds of gases being generated and whether the nearby populations in Switzerland, France, and Germany would have to be evacuated.

More than 3,000 gallons of water a minute was being pumped from the Rhine to fight the fire and keep it away from neighboring warehouses and outdoor storage. The peak pumping rate reached 8,000 gpm.

A 12,000-gallon catch basin into which both water and chemicals collected began overflowing into the river. Flames rose to 200 feet above the warehouse. Steel drums of chemicals exploded like bombs in the intense heat; gas and smoke spread towards the outskirts of Basel. At 3:30 a.m., a hastily convened regional crisis staff declared an emergency. No evacuation was needed. The fumes were not thought to be toxic but included mercaptans, one of the most malodorous chemicals known to man, one which causes people to feel sick and fearful that they are being poisoned. Area sirens were sounded and radio announcements urged the population to close windows and stay indoors. (Many sirens were down for routine maintenance and could not be used.)

Public transport into the area was halted, and gas masks were prepared at the civil defense arsenal. Officials ended the emergency 90 minutes later when readings showed no dangerous concentrations of toxicity in the air. No one was hurt and calm returned to Basel.

But slowly the massive run-off began moving down the Rhine. The management of the Sandoz Chemical Plant sent telexs to all municipal water systems along the 520 miles of river between Basel and the Dutch North Sea port of Rotterdam, urging tests on pollution levels. It listed eight toxic chemicals, most of them used in pesticides, that may have washed into the river. A number of West German water systems were shut down and populations supplied with drinking water by tank trucks. Dutch authorities ordered services closed to keep contaminated water out of Rhine estuaries. Most of the water applied to the fire flowed off through storm drains to the Rhine. By 4:30 a.m. the fire was under control. Incredibly, however, no serious thought seems to have been given to the potential water pollution. It was not the immediate and present danger.

AFTERMATH

The full extent of the ecological damage was not evident for a few days. West Germany's Parliament was told that half a million fish were killed and aquatic life had ended in large stretches of the river. Fisheries officials said new fish for breeding probably would not be introduced for several years and it might be ten years before the river recovers. Heavy metal pollutants which sank to the bottom continued to be stirred up, sending out additional waves of pollution. It was especially tragic because the fishlife had only recently returned to the Rhine after massive clean up operations in the previous years.

But the predictions were overly pessimistic: life appears to be returning to the river today, one year after the disaster caused by man.

The warehouse where the fire originated and its adjoining twin (the double width) were destroyed, but none of the others nearby nor the open air storage were destroyed. Though the Rhine was seriously polluted, it could have been a much worse, more toxic fire had it spread further to other nearby warehouses. There were no injuries, though about 150 civilians and fire fighters were given blood tests to see if they had elevated mercury levels or other problems of the blood. They are still being monitored to see if any long-term effects appear, but none have so far.

LESSONS LEARNED

The Swiss View

There were many lessons learned from this fire. The largest and most important lesson was that water pollution has to be considered in fire fighting, along with other environmental factors. Fires may need to be allowed to burn. "Whereas fire prevention and environmental protection were previously regarded as two completely independent fields with some slight overlap of common interest... the interface is now realized to be much more important than had been assumed." However, it is still thought that it was necessary to extinguish the fire to keep it from spreading.

How to contain the water runoff needs to be considered in planning fire protection, especially where toxic chemicals or things that produce toxic chemicals when burned are present.

A third major lesson was the need for greater security around warehouses. Fifty percent of warehouse fires in Switzerland are from arson, they report. Even if this fire had not been started intentionally, the potential was there. Plant security was deemed far too lax. This was especially so for a chemical industry under political attack, as was Sandoz at the time of the fire.

A fourth lesson was the need to better label toxic substances as to fire hazard, personal hazard, and environmental hazard. A set of new symbols has been proposed for Common Market use by a working group organized to study the fire's implications.

A fifth lesson was that fire prevention and built-in fire protection for chemical warehouses need to be rethought. Present planning has proven inadequate.

APPENDICES

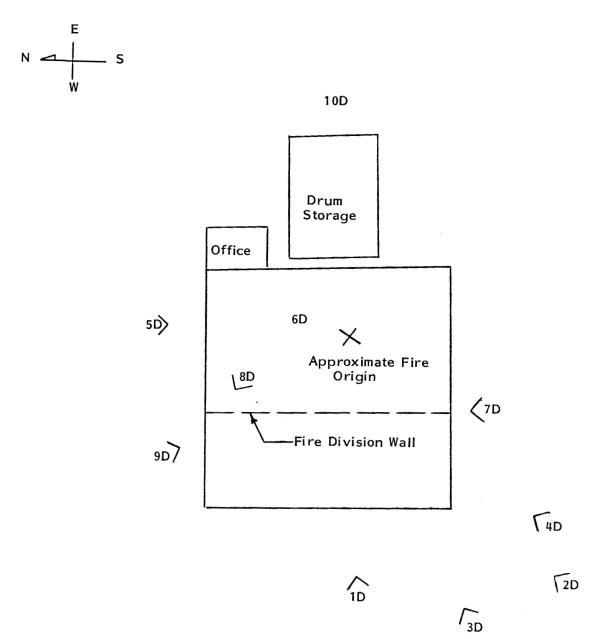
- A. Dayton Fire Department Photographic Slides (with master file copy at U.S. Fire Administration).
- B. Photographic Slides from Investigator (with master file copy).
- C. Fire Incident Report
- D. Map of Wells near Sherwin-Williams Plant (with master file copy).
- E. Transcripts from Fire Department Telephone, Radio, and PA.
- F. Newspaper Articles with Map of Site Reprinted with permission of the Dayton Daily News and Journal Herald. (Additional articles are with the master file copy at USFA.)

APPENDIX A

SHERWIN-WILLIAMS WAREHOUSE FIRE Description of Slides

DAYTON FIRE DEPARTMENT PHOTOGRAPHIC SLIDES

- 1D. View of large flame mass from west (?) side of warehouse.
- 2D. Aerial view of fire scene on Friday after Wednesday night fire. View toward east with south side of building to right and west side to near left.
- 3D. Aerial view of fire scene on Friday after Wednesday night fire. View to west side of warehouse.
- 4D. Aerial view of fire scene on Friday after Wednesday night fire. Southwest corner of building in foreground. Note concrete tilt-up outside walls still standing at east end of south wall.
- 5D. View of remains after fire. Note paint cans and twisted steel columns.
- 6D. View of sprinkler head and pipe fallen amid debris of aerosol cans in area of fire origin.
- 7D. View of remains of fallen, reinforced concrete "firewall" after fire.
- 8D. View of north end of north/south firewall. Note large spalled hole through wall.
- 9D. View of water discharging from broken sprinkler risers on west side of firewall. (Note hole in firewall for reference.) Fire pump believed to have been shut off prior to this photograph and water flow is from bypass around pump.
- 10D. View of 55-gallon drum storage under canopy at east end of warehouse.

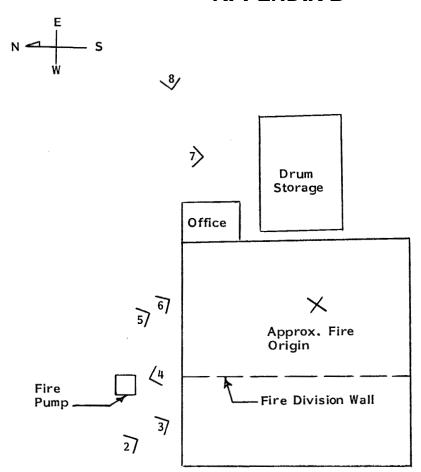


DAYTON FIRE DEPARTMENT PHOTOGRAPHIC SLIDES

Area or Direction of View of Slides (Description Attached)

267T 1043	10-10-87	
Sherwin-Williams Warehouse		
NTS	200	

APPENDIX B



SLIDES:

- #1 Diagram of Site with Information (Provided by Dayton Fire Dept.).
- #2 View toward SE showing remains of "Fire Wall", small attached bldg., and east wall with office beyond in left background.
- #3 Closeup of fire wall remains showing hole in wall. Only one panel remaining.
- #4 View of south side of fire pump house. Pump and connections have been removed.
- #5 View toward SW showing remains of dock and east wall.
- #6 View toward SW showing closeup of east wall and openings into office area.
- #7 View toward south showing remains of canopy where drums were stored.
- #8 View toward west showing office area and remains of east wall of warehouse.

267T 1043	8-2-87
Sherwin-William	ns Wharehouse
NTS	200

APPENDIX C

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	OHIO FIRE INCIDENT REPORT OHIO FIRE INCIDENT REPORT REPORTING SYSTEM Fire Department	-1
A	FDID INCIDENT NO EXP MO DAY YEAR DAY OF WEEK 1 WINDINGS 7 Sai 4 2 1 1 0 7 2 1 1 16 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
8	11-Structure Fire 32-Emergency Medical call 45-Acting electric equipment 73-Alarm Mailunction 74-Uninnenhonal false 99-Unclassified 131-Unincie 74-Uninnenhonal false 99-Unclassified 99-Unclassified 99-Unclassified 99-Unclassified 99-Unclassified 99-Unclassified 99-Unclassified 15-TrasiR. Rubbish 41-Spill, leak-No hire 41-Spill, leak-No hire 42-Explosive, Bomb removal 53-Smoke door removal 65-Slaam, gas mislaken for amoke 71-United 99-Unclassified 99-Unclassi	GRASS, TRASH FIRES, SHORT FORM
	1-Eatinguishment 2-Rescue or Assistance 3-Silvand by 6-Solvage 6-Solvage 7-Ambulance 7-Amb	į į
С	FIXED PROPERTY USE (Occupancy) Pg 23-43 PAINT STORAGE 18165 FLAM MABLE / 19410 SPILL 1411	
D	CORRECT ADDRESS (Up to maximum of 21 characters) 367/ DAYTON PARK PRIVE ZIP CODE CENSUS TRACT 4 5 1 4 8 0 7	ê
Ε	OCCUPANT NAME (LAST, FIRST, MI) SI-IERWIN VILLIAMS TELEPHONE 236-5282	COMPLETE FOR ALL
F	OWNER NAME (LAST, FIRST, MI) ADDRESS SHERWIN WILLIAMS 3671 DAYTON PARK DR. 236-5282	T S
G	METHOD OF ALARM 1-Telephone direct 2-Municipal alarm system 3-Private alarm system 6-No alarm recc 0-Undetermined or not reported 3-Private alarm system 7-Te-line (911) 3 CO. INSPECTION DISTRICT NO. ALARMS 2 3 3 3 3	
н	NO. FIRE SERVICE PERSONNEL NO. ENGINES NO. AERIAL APPARATUS NO. OTHER VEHICLES	
1	NUMBER OF INJURIES NUMBER OF FATALITIES	COMPLET
.1	FIRE SERVICE OTHER FIRE SERVICE OTHER OTHER OTHER OTHER	1
K	AREA OF FIRE ORIGIN Pg 67-68 Q S EQUIPMENT INVOLVED IN IGNITION Pg 71-72 (Complete Line T) 98]
r.	FORM OF HEAT IGNITION Pg 74-76 2 TYPE OF MATERIAL IGNITED Pg 78-79 1 FORM OF MATERIAL IGNITED Pg 80-81	COMPLETE FOR ALL FIRES
M	METHOD OF EXTINGUISHMENT 1-Suit extriguished 2-Value string duster stringuished 3-Proceded and an analysis of the stringuished above of the stringui	
N	Number of Stories 1-1 story 4-5 to 6 stories 2-2 story 5-7 to 12 stories 5-5 to 19 stories 5-5 stories or more 3-3 to 4 stories 5-13 to 24 stories or more undetermined or not reported	
0	EXTENT OF DAMAGE Continued to part of rogin Continued to part of rogin or series of longin Continued to part of rogin or series of longin Continued to part of rogin or series of longin Continued to part of rogin or series of longin Continued to long of longin Continued	COMPLETE IF
Q	TYPE OF MATERIAL GENERATING MOST SMOKE Pg 103-104 IF SMOKE SPIEAD BEYOND ROOM OF OHIGIN AVENUE OF SMOKE TRAVEL S-No avenue of smoke travel (N/A) Company on construction 0-understimed or not reported 3-Elevator shall S-Not classified above ROCF	
R	FORM OF MATERIAL GENERATING MOST SMOKE Pg 108-109	1
s	IF MOBILE PROPERTY YEAR MAKE MODEL SERIAL NO. LICENSE NO.	-
T	IF EQUIPMENT INVOLVED IN IGNITION FOR THE TOTAL MAKE MODEL SERIAL NO. MEMBER MAKING REPORT A DATE OFFICER IN CHARGE (II different) DATE	-
U	F. F. Michael Kennys/ D.S. Nay x-Donglas 6-3-87	
	Remarks See attocked rentgath sheet.	_
_	COM 50	3

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	OHIO FIRE INCIDENT REPORT Fire Department NFIRE OHIO FIRE INCIDENT REPORT 1 Delete 2 CHANGE	. Not					
ì	FOID INCIDENT NO EXP. MO. DAY YEAR ISAYOF WEEK 5 7 0 1						
,	11-Structure Fire 32-Emergency Medical call 45-Arcing electric equipment 55-Unauthorized burning 73-Alarm Malfunction 72-District Fire 33-Locked-in trapped 46-Arcinal stander 47-Chemical spiil 59-Other service calls 99-Unclassified 14-Epush, grass, leaves 35-Excretion 51-Lock-out 61-Spiil, leak-No fire 52-Water removal 53-Sinch cotor removal 17-Outside spiil with fire 42-Explosive, Bomb removal 53-Sinch cotor removal 17-Outside spiil with fire 43-Excessive Heat 43-Excessive Heat 43-Excessive Heat 45-Excessive H	GRASS, TRASH FIRES SHORT FORM					
	ACTION TAKEN 1- Exinguishment 2- Rescue or Assistance 3-investigation only 4- Remove Hazard 8- Fill in, Move up 9- Not classified 9- Not classified 2- Given N/A MUTUAL AID 1- Rec'd 2- Given N/A	, and					
;	FIXED PROPERTY USE (Occupancy) Pg 23-43 TRAILC IDIO GRANTON FACTOR Pg 44-45 CORRECT ADDRESS (Up to maximum_ol_21 characters) IGNITION FACTOR Pg 44-45 CXDOSURE HIC IGN ZIP CODE CENSUS TRACT						
	OCCUPANT NAME (LAST, FIRST, MI) TELEPHONE ROOM of APT.	COMPLETE FOR A					
•	OWNER NAME (LAST, FIRST, MI) ADDRESS TELEPHONE UN KNOWN METHOD OF ALARM 4-Radio 8-Voice signal municipal alarm signal CO. INSPECTION SHIFT NO. ALARMS	FOR ALL					
ì	1-Telephone direct / 5-Verbal 9-Not classified above 2-Municipal alarm system 6-No alarm recd 0-Undetermined or not reported 3-Private alarm system, 7-Tie-line (911)						
1	NO. FIRE SERVICE PERSONNEL NO. ENGINES RESPONDED NO. AERIAL APPARATUS RESPONDED NO. OTHER VEHICLES RESPONDED NUMBER OF INJURIES	COMPLET					
	FIRE SERVICE OTHER FIRE SERVICE OTHER	CASUALT					
	AREA OF FIRE ORIGIN Pg 67-68 FORM OF HEAT IGNITION Pg 74-76 TYPE OF MATERIAL IGNITED Pg 78-79 TOMPLEY Pg. 63-65 (Complete Line S) NA = 08 TOMPLEY Pg. 63	COMPLETE FOR ALL FIRE					
1	EXPOSUTE SI FAMMIBLE LayID 21 BUK Storage ISI7 METHOD OF EXTINGUISHMENT 5-Pie-connect hose/lank only 6-Pie-connect hose/lydiant draft standopipe 1-Glade level to 9 it. 1-Glade l	LEIRES					
-	Number of Stories 1-1 story 4-5 to 6 stories 7-25 to 49 stories 8-50 stories 8-50 stories 8-50 stories 9-7 to 12 stories						
,		COMPLETE IF					
	TYPE OF MATERIAL GENERATING MOST SMOKE Pg 103-104 IF SMOKE SPREAD BEYOND ROOM OF ORIGIN AVENUE OF SMOKE TRAVEL 1-Au nanding duct 1-Au nanding duct 1-Statewell 2-Corridor 5-Opening on construction 0-Undetermined or not reported 6-Utility opening in wall 9-Not classified above						
	FORM OF MATERIAL GENERATING MOST SMOKE P\$ 108-109 BULK STOFAGE S17						
	IF EQUIPMENT INVOLVED YEAR MAKE MODEL SERIAL NO. ILICENSE NO.						
	MEMBER MAKING REPORT FF Michael Kenny Date Officer in Charge (il different) D. C. Day L. Douglar 5-27-57						
•	Remarks						
ch	check if remarks continued on back						

But Cole					NFIRS-1	K
	OHIO FIRE INCIDENT REPORTING SYSTE	I INCIE	ENT REPO		1 DELETE	₩.
C) Say 1 van 1		Fire Department DA	pton Fire ?			•
570111	HICHDENT NO EXP. MO.	DAY YEAR DAY OF WEEK 1 Sunday 2 Monday 3 Tuesday	4 Wednesday 7 Sat. 4 5 Thursday 6 Friday	2/10/72/1/	ا اینیسایی	
SITUATION FOUND 11-Structure Fire 12-Outside Dollar Loss	22-Air Gas. Rupture 32-Emergency Medical call 33-Locked-in trapped	44-Power line down 45-Arcing electric equipment 46-Aircraft standby	55-Assist Police 56-Unauthorized burning 57-Move-up	72-Bomb Scare 73-Alarm Malfunction 74-Unintentional fals		S
13-Vehicle Fire 14-Brush, grass, leaves	34-Search 35-Extrication	47-Chemical spill 51-Lock-out	59-Other service calls 61-Smoke scare	99-Unclassified	13	GRASS, TRASH FIRES
15-Trash, Rubbish 16-Explosion, No after fit 17-Outside spill with fire	41-Spill, leak-No fire 42-Explosive, Bomb removal 43-Excessive Heat	52-Water removal 53-Smoke odor removal 54-Animal Rescue	63-Controlled burn 65-Steam, gas mistaken for si 71-Malicious false	Other See pa	ge 17-19	3
ACTION TAKEN	4-Remove Hazard	8-Fill in, Move up		MUTUAL AID 1-Rec'd 2-Given	[A/#]	FIRES
1-Extinguishment 2-Rescue or Assistance 3-Investigation only	5-Stand by 6-Salvage 7-Ambulance	9-Not classified 0-Undetermined	[/]	N/A	W4	
PACK	SE (Occupancy) Pg 23-43	19,4,5	IGNITION FACTOR Pg 4		65	
CORRECT ADDRESS	Up to maximum of 21 characte		- X 190501	ZIP CODE	CENSUS TRACT	•
3671	DAYton PAI	(LAST, FIRST, MI)	·	\$45 \$1/ \$/ TELEPHONE		COMPLETE FOR A
/	nown	(2.01, 1.1101, 2.1)			CIDEN	FIEL
OWNER NAME	(LAST, FIRST, MI)	ADDRES	,	TELE	PHONE	i S
METHOD OF ALARM		municipal alarm signal	CO. INSPECTION	SHIFT N	D. ALARMS	-
2-Municipal alarm system 3-Private alarm system		ed or not reported		ام ا	12	
NO. FIRE SERVICE RESPONDED	PERSONNEL NO. ENGINE	s .	NO. AERIAL APPARATUS	NO. OTHER V	EHICLES	
NUMBER OF INJUR	1 1517	11/10	NUMBER OF FATALITIES	1 1 NESPONDED		
FIRE SERVICE		OTHER	FIRE SERVICE		OTHER CAN	SUAL T
COMPLEX Pg 61-62	10,4011,14	1918 3	PROPERTY TYPE Pg. 63-65	,	= 08	
AREA OF FIRE ORIG	COMPLEX SIN Pg 67-68	19181 (3	PACIOCS	IGNITION Pg 71-72 (Compl	ete Line T) 98	
Vehicle		#17	No e	quiPment	19.8	2
EXPOSO		FLAMABLE L	PO 78-79 FORM Q	EMATERIAL IGNITED PO 80-8 BUIK STOFA	1710 00 AF 1817 1817 1817 1817 1817 1817 1817 181	COMPLETE
METHOD OF EXTINGUISHMENT	5-Pre-connect hose/tank only 6-Pre-connect hose/hydrant draft sta		FIRE ORIGIN 6-Over 70 less	ESTIMATED DOLLAR LO	TOTAL SS -	Ħ
1 - Self extinguished 2-Make shift aids	7-Hand-laid hose/hydrant draft stand 8-Master stream device 9-Not classified above		sel 8-Below ground	d level / · · · ·	rdetermined	
3-Portable extinguisher 4-Automatic ext system	0-Undetermined or not reported	5-50 to 70	eel 0-Undetermine		116999	
	6 stories 7-25 to 49 stories		1-Fire resistive	Protected ordinary 9-Not	rotecied wood frame- classified above	
	o 12 stories 8-50 stories or more to 24 stories 0-Number of stories undetermined or not	reported			etermined or not O	
EXTENT OF DAMAG		DETECTO	R PERFORMANCE	SPRINKLER PERFORM	ANCE	
Confined to the object of Confined to part of room Confined to room of original Confined to room of original Confined to room of original Confined to the object of Confined to the object of Confined to the object of Confined to the object of Confined to part of room	or area of origin 2 2	/ _ 2-Definotinit	or space of fire origin - oper m. or space of fire origin - oper or space of origin - no oper	1-Equipment operated 2-Equipment should have ope 3-Equipment pre, but lire too a	rated - did not Ta	COMPLE
Confined to the fire-rate Confined to floor of origin	d compolorigin 4 4 L	OKE 4-Det not in r	m or space of origin - not oper. or space of fire origin small to oper.	9-Not classified above 0-Undetermined or not reporte 8-No equipment present (N/A)	م الله الله الله الله الله الله الله الل	P
Confined to structure of Extended beyond struction No damage of this type (ure of origin 7 7 N/A) 9	7 9-Not classific	ed above evoda bornoqui ton no form		8	ETE IF
TYPE OF MATERIAL	GENERATING MOST SMOKE P		AVENUE OF SMOKE TRA	VEL 7-Utility opening in floo		
IF SMOKE SPREAD			1-Air handling duct 4-Stairwell 2-Corridor 5-Opening o 3-Elevator shaft 6-Utility open	8-No avenue of smol on construction 0-Undetermined or n ning in wall 9-Not classified above	ot reported (()	
	MMABLE LIGHT	/ t O Z /				
STORAG		MAKE - M	ODEL . SERIAL	NO.	LICENSE NO.	
IF EQUIPMENT INVO			ODEL SERIAL SERI	NO. VAC+OT	-	
IN IGNITION		DATE	OFFICER IN CHARGE (if diff		DATE	
FFM	had Kan		D.c. Day.	P. Dorgla	5-21-87	
Remarks 1	Nter NATIONA	oh l	15: 16	N 37 2	InterNATION A	72
ALA L	1C: X8 65121	3) Intern	Ational ALA	ALX 8651	క్ష	
heck if remarks conti	nued on back	- J			COM 5013	

FIRE SERVICE CASUALTY REPORT							
		NFIR-3					
OHIO FIRE INCIDENT REPORTING SYSTEM Fire Depart	irtment Dayton Fire Dep	1 DELETE REPORT					
FDID INCIDENTING C EXPOSURE NO.	CASUALTY NO. INJURY OCCURRED						
51701/1/11/2/1010 1010	1112	15/2/8/817 10/01/17					
CASUALTY NAME (LAST, FIRST, MI)	TYPE OF CASUALTY Freground injury before F.D. arrival CFreground injury after F.D. arrival	Non-fire incident injury after alarm Medical aid call, timess creating alarm					
Bergman Mark	Injury during response to or return from incid. Non-lire incident injury creating the alarm	Not classified above Undetermined or not reported					
AGE SEX CASE SEVERITY Market The patient is not in danger of death or permanent disability. Immr Moderate There is three danger of death or permanent disability. Duck in	nediate Medical care is not necessary. nedical care is avaliable	PRIMARY APPARENT SYMPTOM Pg. 151					
This category includes injuries such as fractures or laberations reguling 3. Severe-The stuation is potentially life threatening of the condition remain medical care is increasary even though body processes may still be func.	sutures. Is uncontrolled. Immediate soning and vital signs may be normal.	1					
4 Lie Threat-Death is unminent. Body processes and vital signs are not no care is necessary. This category includes such as severe hemorrhaging. 5 0 0 A -Dead upon arrival at the scene 6 Dead subsequent to arrival.	ormai. Immediate medical multiple trauma and multiple internal incuries.	STRAIN ISI					
PRIMARY PART OF BODY Pg. 153	PATIENT TAKEN TO Disspital, emergency room or general admission	4. Morgue 7. Not transported					
Lea	2. Doctor's office clinic 3. Long-term care facility	Funeral home 9. Not classified above 0. Undetermined or not reported					
1. Fire suppression 7. Administrative 1. One 7. Nu	ONSES PRIOR TO INJURY PHYSICAL CONDIT	1. Asiecp					
Fire prevention/inspection	rer twerve 2. Fatigued 3. Impaired (drugs, alcohol) uldetermined or 4. Impaired (illness, medication) 9. Not classified above	2. Avrake 9. Not classified above 0. Undetermined or not reported					
FIRE FIGHTER ACTIVITY-Pg. 161	9. Not classified above 0. Undetermined c: not reported WHERE INJURY OCCURRED-Po	162					
Hose Lines	31 OUTSIDE	Ground Level 12V					
CAUSE OF FIRE FIGHTER INJURY-Pg. 165	MEDICAL CARE PROVIDED 1 None 4 Treatest at doctor 2. Treated at scene 5. Hospital emergence	7. Hospital inpatient s office 8. Continued care after hospital realease cy room 9. Not classified above					
PROTECTIVE COAT WORN STAT	3 Treated at medical choic 6. Hospital outpation	0. Undetermined or not reported LEM WITH PROTECTIVE COAT					
Nomex protective coat with kiner Rubber (or rubberized) coat without kiner Other protective coat with kiner Other protective coat with kiner Other protective coat with kiner	1. Burned	7. No faulure of the protective coal 8. No protective coal worn 9. Not classified above					
4 Canvas protective coat without liner 9. No protective coat being worn when injured 4. Closed	d, codar down 0. Undetermined or 4. Cut	9. Not cassing above 0. Undetermined or not reported steam or hazardous gases					
PROTECTIVE TROUSERS WORN 1. Numex profective focuses with large 2. Numex profective focuses without large 7. Other profective focuses without large 1. Other profective focuses with large	Protective trousers worn properly	PROBLEM WITH PROTECTIVE TROUSERS 1. Burned 7. No talure of the protective trousers 2. Roosed 8. No protective trousers worm					
3 Cannas protective trousers with liver 8 Other protective trousers without hear 4 Cannas protective trousers without hear 9 No protective trousers without hear 9 No protective trousers being worm 5. Rubbet or pubblenedly protective trousers with meer 0 Understrained or not reported	3. Protective trousers worn without suspension 8. No protective trousers worn	2. Rupped 8. No protective trousers worn 3. Mettad 9. Not classified above 4. Cui 0. Undetermined or not reported 5. Transed steam or hazardous bases					
BOOTS/SHOES WORN 1 Boots, lives length (steel base/plate and steel ton) 6. Snoes, safety (steel toe only)	STATUS OF BOOTS	PROBLEM WITH BOOTS/SHOES					
Boots, we single interest consequent and sections / Senses, satisfy (size to entry) Boots, we length (size to see only) Boots, we length (size to see only) Boots, we see the see only see to see only see to see only see o	Weight boots not pulsed up Knee length boots worn	Burned 6. Fated under impact 2. Rupped 8. No Isaure of books/shoes 3. Cut 9. Not classified above 6. Punctured 0. Undetermined or not reported					
5 Stook, safety (steel basepase and steel toe) 0. Undetermined or not reported HELMET WORN STATUS OF HELM	9. Not classified above 0. Undetermined or not reported	5. Object fell into					
Leather heimet Aumman heimet Aumman heimet A 2. Chin strag and sar/neck protein.	1. Burned ector in use 8. No helmet being worn 2. Meijad	EM WITH HELMET 7. Ho Zafure of helmet					
3. Glass bloor halmet 4. Polycarbonate halmet 8. No relimet being worn 0. Undetermined or not reported 4. Chin strap and aw/neck protection.		d 9. Not classified above					
FACE PROTECTION WORN 1. Full kee protection 3. Goggest worn 9 Not classified above 2. Partial kee protection 8. No lace protection worn 0. Undetermined or not reported	PROBLEM WITH FACE PROTECTION 1. Burned 3. Fractured/cracked/broke 8. No face p	protection being used					
	7. No feature of face protection 0. Undeterm	need or not reported					
Self-contained open circuit demand type apparatus Self-contained open circuit demand type apparatus Machine apparatus apparatus	TATUS OF BREATHING APPARATUS Face piece and regulator connected 5. Breathing apparatus properly worm 8. No breathing apparatus	PROBLEM WITH BREATHING APPARATUS					
4. Not self-contained 0. Undetermined or not reported 4. i	ace piece not in place 9. Not classified above famess not secured 0. Undetermined or not reported	<u> lone</u> 1918					
GLOVES WORN 3 Carvas 1. Cotton 4 Leather 7. Synthetic, including normax 2. Wool 5. Asbestos 6. No ploves being worth 0. Undetermined or not reported	PROBLEM WITH GLOVES 1. Burned 1. Burned 1. Report 1. Cul/punctured 1. Report 1. Repor	I Into 8. No gloves being worn It insusation 9. Not classified above of the gloves 0. Undetermined or not reported					
Proximity suit 6. Life belt, ladder belt 1. Being worn properly and u	sed for designed purpose 1. Burned	SPECIAL EQUIPMENT 6. Not used as recommended by manufacturer					
3. Scuba gear 8. No special equipment being used 2 3. Not being worm properly b	nd not used for designed purpose 4. Not properly serviced/stor	8. No special equipment being used red prior to use 9. Not classified above					
OFFICER IN CHARGE DAT		DATE					
D.C. Many L. Worslor 5-28-87	I Ft. Thehaul +	Kenny 5/28/87					
Remarks ————		0 , ,					

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OHIO FIRE INCI	DENT CIVILI STEM	_	ALTY REPOR	NFIRS-2		
FDID Inc	Fire Departm		Fire Dept			
57011 1215	512141 000013217		1421/1017			
CASUALTY SEVERE ENOUGH TO CHECK ON L	ATER	ENTER CORRECT CODE NUI	CASUALTY ABER IN BOX NUMBER	1 DELETE 2 CHANGE		
CASUALTY LAST NAME	FIRST NAME	MI	D.O.B. AGE	TIME OF		
GriFF1th HOME ADDRESS	Curtis		Unknown 29	EPHONE 2 1 / 10 0		
" 2720 Sher	٣٢			765449		
SEX 1 Male 2 Female	1 Fire Casualty 2 Action Casualty	SEVERITY 1 injury 2 Death	AFFILIATION 1 Fire Servic 2 Other Eme			
FAMILIARITY WITH STRUCTURE	3 EMS Casualty LOCATION AT IGNITION	<u> </u>	CONDITION BEFORE INJURY	,		
1 Less than 1 Day 2 1 to 7 Days 3 8 to 30 Days 0 Undetermined or	Intimately involved with ignition In the room or space of fire On same floor as origin of fire	8 Not a fire casualty	2 Bedridden, other physical hi 3 Impaired by drugs, alcohol	8 Awake, unimpaired		
4 1 to 2 Months not reported 5 3 to 6 Months 6 7 to 12 Months	4 In same building as origin of fire 5 Outside of building of fire origin but on property	9 Not classified above	4 Under restraint 5 Too young to act 6 Too old to act	9 Not classified above		
7 Over 1 Year 8 Not a Structure	6 Fire casualty off property of fire of 0 Undetermined or not reported		7 Mentally handicapped, senii 0 Undetermined or not reporte	8		
CONDITION PREVENTING ESCAPE 1 No time to escape; explosion or fire progressed too rapidly 8 No cond	ACTIVITY AT TIME O 1 Escaping 2 Rescue attempt	FINJURY	CAUSE OF INJURY 1 Caught in, under, between trapped by	6 Rubbed by, contact with 7 Struck by		
2 Fire between casualty and exit escape of 3 Locked doors 9 Not class	or not a factor 3 Fire control 4 Response/return	8 Irrational action	2 Exposed to fire products 3 Exposed to chemical radiation	9 Not classified above 0 Undetermined or not reported		
4 illegal gates, locks 0 Undeter 5 Clothing and casualty burning not repor 6 Moved too slowly		9 Not classified above	4 Fell or stepped on, over, into 5 Overexention	8 Not applicable		
7 Victim incapacitated prior to ignition	7 Unable to act 0 Undetermined or no					
NATURE OF INJURY 1 Burns asphyxia/smoke 6 Complaint of pa 2 Burns only 7 Shock		ODY INJURED tk 7 Internal nk, back Included are respir	DISPOSITION 1 Refused hel ratory system, heart 2 Treated at s			
3 Asphyxia smoke only 8 Strain, sprain 4 Wound, cut, bleeding 9 Not classified at 5 Dislocation, fracture 0 Undetermined of	3 Arm 4 Leg	8 Multiple parts 9 Not classified abov 0 Undetermined or r	3 Taken to ho: 4 Taken to ho:	spital by fire dept. vehicle spital by non fire dept. vehicle ser than a hospital		
5 Disocation, flacture 0 Undergrimined (2 6 Foot	U Oridetermined or r	6 Died 7 Not classifie	d above		
□ SEI	REMARKS ON BACK		SEE ADDITIONAL REPORT	ed or not reported		
CASUALTY SEVERE ENOUGH TO CHECK ON LATER YES NO ENTER CORRECT CODE NUMBER IN BOX NUMBER 2 CHANGE						
CASUALTY LAST NAME	FIRST NAME	M	D.O.B. AGE	TIME OF INJURY		
HOME ADDRESS			TEL	EPHONE		
SEX	CASUALTY TYPE	SEVERITY	AFFILIATION			
1 Male 2 Female	Fire Casualty Action Casualty EMS Casualty	1 Injury 2 Death	1 Fire Service 2 Other Eme 3 Civilian	rgency Personnel		
FAMILIARITY WITH STRUCTURE 1 Less than 1 Day	LOCATION AT IGNITION 1 Intimately involved with ignition		CONDITION BEFORE INJURY 1 Asleep			
2 1 to 7 Days 3 8 to 30 Days 0 Undetermined or 4 1 to 2 Months not reported	In the room or space of fire On same floor as origin of fire In same building as origin of fire	8 Not a fire casualty 9 Not classified above	Bedndden, other physical ha Impaired by drugs, alcohol Under restraint	ndicap 8 Awake, unimpaired 9 Not classified above		
5 3 to 6 Months 6 7 to 12 Months 7 Over 1 Year	Outside of building of fire origin but on property Fire casualty off property of fire on	naia.	5 Too young to act 6 Too old to act 7 Mentally handicapped, senie			
8 Not a Structure CONDITION PREVENTING ESCAPE	0 Undetermined or not reported		Undetermined or not reporte CAUSE OF INJURY	لا		
No time to escape; explosion or fire progressed too rapidly 8 No condit	ions prevented 2 Rescue attempt		Caught in, under, between trapped by	6 Rubbed by, contact with 7 Struck by		
2 Fire between casualty and exit escape or 3 Locked doors 9 Not classi 4 Illegal gates, locks 0 Undeterm	fied above 4 Response/return	8 Irrauonal action 9 Not classified above	Exposed to fire products Exposed to chemical radiation Fell or stepped on, over, into	9 Not classified above 0 Undetermined or not reported 8 Not applicable		
5 Clothing and casualty burning not report 6 Moved too slowly 7 Victim incapacitated prior to ignition		[5 Overaxerion			
NATURE OF INJURY	0 Undetermined or no	DY INJURED	DISPOSITION			
1 Burns asphyxia/smoke 6 Complaint of pain 1 Head, neck 7 Internal 1 Refused help 2 Burns only 7 Shock 2 Body, trunk, back Included are respiratory system, heart 2 Treased at some and released 3 Apphysis smoke only 8 Strain, sprain 3 Arm 8 Multiple parts 3 Taken to hospital by fire dept. vehicle						
4 Wound, cut, bleeding 9 Not classified above 4 Taken to hospital by non fire dept. vehicle 5 Dislocation, fracture 0 Undetermined or not reported 5 Hand 0 Undetermined or not reported 5 Taken to other than a hospital						
•	6 Foot		6 Died 7 Not classifier 0 Undetermine	d above ed or not reported		
	REMARKS ON BACK		SEE ADDITIONAL REPORT			
OFFICER IN CHARGE AT INCIDENT (Name, POR D-C- Sour X- OV	0 - 12 0	7 FF	Chail R Kinn	Date		
	V -			COM 5013		

Fire-building approximately 180,000 square feet, one-story tilt-up construction on slab. Steel bar joist roof on center steel post supports, approximately 30 feet high. Building used for warehousing auto paint finishes, with thinners, additives, etc. Exposure on east: approximately 1,400 drums of thinners-lacquers-paints stacked two-three high on pallets. One-story office area also on east side of warehouse.

ADT alarm on initial dispatch; also dispatcher reported several phone calls. Second alarm staged at Wagner Ford when large column of black smoke visible from Keowee Street. Upon arrival had third alarm staged.

On arrival, flame showing through roof and entire east half of building involved. Engine 12 on hydrant and supplied Engine 8 deck gun to protect office and drum storage on east side. Engine 21 on hydrant in front of structure; supplied Engine 14 and Truck 14 to protect trailers in dock and parking areas. Aerosal cans raining on crews. Decision not to supply sprinkler system: severe exposure hazard so close to building with sprinkler connections facing fire building--especially since sprinkler piping already probably compromised.

Truck 11 assigned to east sector, under command of Central 2. West 2 assigned as planning sector. Unmanned monitors set up on east exposures as fire progressed.

Tactical decision to attempt to stop fire at north-south firewall in center of structure. However, planning sector found heavy extension into west side before any actual company assignments could be made.

Occupants of structure, approximately 30, reported an employee injury to arriving firefighters, and Engine 4 assisted Medic 4 with lift-truck operator burned seriously on legs. Engine 4 later assigned as brand patrol.

At approximately 2150 Chief 1 took command, made Chief 3 operation sector. Chief 1's strategy was to maintain streams on exposures--which were all on drained concrete pad--but to throw no water on burning structure. The building sits directly over city wellfields, and possible contamination of water supply from run-off became first priority.

Warehouse area of structure a total loss. Drum storage never involved in fire, though some damage later as walls collapsed. Offices sustained some minor water damage, but records preserved and recovered. Seventeen truck trailers on scene heavily or totally damaged; dozens of others not damaged and later removed from parking area.

Injury to firefighter minor (pulled muscle).

Fire officially contained at 0012 on 5-28-87, and under control at 1004 on 6-2-87.

REMARKS:

Fire allowed to burn freely until self-extinguished: Goal to not contaminate water supply:

Thursday (28th): Met with Sherwin-Williams and OEPA, RAPCA, other interested parties, to determine effect of fire on environment, while developing plan to continue protection of exposures on east side of building. Fire still free burning. Flare up caused staging of a 2nd alarm assignment at site. Run-off to Miami River contained and solvents skimmed and pumped off. Basic operation still

geared around protecting well field. Command trailer installed. Valuables in office area turned over to Sherwin-Williams representatives.

Friday (29th): Met with federal and state EPA and RAPCA to secure site safety plan. Smoke and fire diminishing, but still visible throughout complex. Sherwin-Williams given permission to remove undamaged semis and trailers.

Saturday (30th): Sherwin-Williams contracted with O-H Material to be prime clean up contractor. Environmental monitoring showed no contamination of groundwater, but some of ground in site and river near drains. Sherwin-Williams given permission to remove all items in the office area. Dave Tabar of Sherwin-Williams removed inventory sheet from command post. Total inventory as of 5-16-87 in excess of 1.7 million gallons.

Sunday (31st): Removal of trailers next to building. Walls dismantled. Fire down to 5-6 spots, glow with light smoke. Site safety plan supposed to be developed by O-H Material for review by fire department. Containment dike for runoff under construction.

Monday (1st): Containment dike completed. Fire still smolders--some hot spots and vapors. Some barrels removed from east side--removal of trailers. Site safety plan in place. Clean up to start at No. 1 door at front loading dock. Work during daylight only. Reduced fire department to one engine and one truck at night. Barrel removal halted until proper forklift is at site.

Tuesday (2nd): Fire placed under control and loss established.

APPENDIX E

TELEPHONE BOARD #1

Dispatcher: 2105

Yeah, Fire Box No. 455 goes to Sherwin-Williams, 3671 Dayton Park Dr.

Dispatcher: What was that, 30 what

Caller: 3671 Dayton Park Road

Dispatcher: 455

Caller: Right

Dispatcher: OK, are you going to have a runner enroute

Got one enroute now

Dispatcher: OK, we'll get them on the way

Dispatcher: 2106 Dayton Fire Department

Caller: I want to report a fire at the Sherwin-Williams Warehouse on Dayton Park Drive

Dispatcher: We got them on the way sir

Caller: OK, you might want to send some ambulances

Dispatcher: 2107 Dayton Fire Department

Caller: Yes, I'm an employee of B & O Railroad, there's a fire at Dayton Industrial Park,

has there been a report

Dispatcher: At Sherwin-Williams

Caller: Ah, I guess I'm not sure where it's at

Dispatcher: There on Dayton Park Road, we got them on the way sir

Caller: All right, thank you

Dispatcher: Thank you

Dispatcher: 2108 Dayton Fire

Caller: Yeah, there's a fire out here, I'm at Troy and Stanley.

Dispatcher: Yes ma'am we've got them on the way.

Caller: Thank you.

Dispatcher: 2108 Dayton Fire

Caller: Yes I have an emergency, need ah fire, we have a fire at 3671 Dayton Park Drive

(employee)

Dispatcher: They're on their way ma'am

Caller: Thank you very much.

Dispatcher: Bye.

Dispatcher: Yeah, Dispatch

Caller: There is a fire, I think it is right in front of North Lake Hills but I can't tell from

where I'm standing

Dispatcher: Over by Chuck Wagon Lane, over in that area

Caller: North Lake Hills, Old Troy Pike

Dispatcher: Yeah, we've got them on the way ma'am

Caller: OK, thank you

Dispatcher: OK

FD Dispatcher calling Police Dispatcher

Dispatch (Police)

FD Dispatcher: We need a little assistance out at Wagoner Ford and Needmore

PD Dispatcher: Uh huh, do you need any traffic control there today

FD Dispatcher: Ah, probably going to

PD Dispatcher: OK.

FD Dispatcher: It's on Dayton Park Road is where the fire is Dayton Park Road. OK

PD Dispatcher: OK, thank you

FD Dispatcher: Dispatch

Company #2 Ah, Rescue 1 is back in quarters, at Co. 2's and I've got four guys if you want

me to man an Engine 2, or I've got four guys however you want me to do, the truck crew my engine crew went ahead and put the truck in service and took

that

FD Dispatcher: OK, you might as well put the engine in service then

Company #2 OK, we'll be in service with Engine 2

FD Dispatcher: OK, thanks.

Dispatcher: 2117 Dayton Fire

Caller: Yeah, this is Mr.___speaking, have you got a report of a fire off Troy Street

Dispatcher: Yes we do sir, we've got them on the way

Caller: OK, that's really smoking

Dispatcher: 2118 Dayton Fire

Caller: Yes, I'm sure you're aware there's a fire at Sherwin-Williams on Dayton Park Drive

Dispatcher: Yes sir, we are.

Caller: OK, now we're directly across the street from there, is there any danger to my

people working there

Dispatcher: As far as I know, at this time sir, I can't say, but if there is apparently any danger,

I'm sure that they will evacuate

Caller: OK, I can leave my people working

Dispatcher: As far as I know

Caller: OK

Dispatcher: We've got people out there working, you know, if they see if things are danger-

ous, they'll get them out

Caller: OK

Dispatcher: 2118 Dayton Fire

Caller: Yeah, could you tell me are paramedics or ambulance on the way to 3671

Dayton Park Drive

Dispatcher: Yes ma'am

Caller: OK, cause we got a guy burning, and I didn't know if the ambulance had -

Dispatcher: They're on the way

Caller: OK, thanks

Dispatcher: 2119 Dayton Fire

Caller: Yes sir, we're up on Earnst and North Main is there a fire burning on the other

side of Riverside somewhere

Dispatcher: Yes sir, there is, and I'm too busy to talk to you at this time sir

Caller: OK, thank you

Dispatcher: Yes sir.

Caller: Has anybody reported a fire out here on Brandt Pike

Dispatcher: Yes

Caller: OK, thanks

Dispatcher: 2120 Dayton Fire

Caller: I don't know if anybody's called or not, I live at 2329 Troy St.

Dispatcher: Yeah.

Caller: And, ah behind the trailers back here, there's something burning back here

Dispatcher: Yes sir, we're aware of it, they're on the scene

Caller: OK, thank you

Dispatcher: 2121 Dayton Fire

Caller: Yes, I live at 104 Delaware looking out my back door, toward Main Street,

there's a huge _____ of black smoke and

Dispatcher: Yes ma'am, we're well aware of that, we have fire equipment on the scene there

Caller: Oh, OK

Dispatcher: 2121 Dayton Fire

Caller: Yes, we have a fire here off of Troy Street, have you gotten that

Dispatcher: Yes, ma'am, they're there

Caller: OK, then, I didn't hear the fire trucks, I thought I better call

Dispatcher: Thank you ma'am

Caller: Thank you.

Dispatcher: 2121 Dayton Fire

Caller: Yes, I live out around 202 and I'm in an apartment building and see flames

coming above the apartment building, I'm not quite sure how far over it is, but

I know it's on Route 202

Dispatcher: Yes ma'am, we've got fire crews on the scene over there

Caller: Already?

Dispatcher: Yes ma'am

Caller: Thank you, bye bye

Dispatcher: 2122 Dayton Fire

Caller: Has anybody reported a fire across the street from the _____

Dispatcher: Yes ma'am, they have

Caller: OK, thank you

Dispatcher: 2124 Dayton Fire

Caller: Yes, I'm _____on St. Adalbert across from the Sohio Oil thing, and it's on fire

Dispatcher: There's a fire out there, yes ma'am, we've got equipment on the scene

Caller: OK, with me living this close, should I leave

Dispatcher: At this time ma'am, I would say no

Caller: OK, ah, will we be contacted if we should

Dispatcher: Yes ma'am, you will be

Caller: OK, thank you
Dispatcher: Yes ma'am, bye

Dispatcher: 2124 Dayton Fire

Caller: Yes, I live on Vermont Street, and I can see that flames and I was wondering

Dispatcher: Yes ma'am, we've got crews out there now

Caller: Well everybody on the street is taking off, and I was

Dispatcher: Well, I'm sorry ma'am, I really don't have time to talk to you, as far as I can tell

at this time you're in no danger

Caller: Oh, can you tell me what it is

Dispatcher: It's a building out there burning, ma'am

Caller: Is it chemicals or

Dispatcher: Ma'am I don't know, I'm not there, I'm sorry I'm curt with you but I'm awfully

busy right now

Caller: We're in no danger

Dispatcher: No ma'am

Caller: All right, thank you
Dispatcher: 2125 Dayton Fire

Caller: Ah, yes I want to report a possible fire in the, in the 200 block of Baltimore Street

Dispatcher: 200 block of where

Caller: Baltimore Street
Dispatcher: Beckmore? I'll I

Caller: B-A-L-T-I-M-O-R-E

Dispatcher: Oh, Baltimore

Caller: Right across from the park, Patterson Park

Dispatcher: Ah, do you have any idea what's burning

Caller: No, I don't know, I just see smoke up in the air and there's a bunch of flames

shooting down there, I don't know what it is but I live in the 100 block and some of the neighbors next door went up that way, and I said well I'll go head

and call

Dispatcher: Well, we have a fire out that way, we've got crews on the scene

Caller: Oh, do you, Oh, I didn't know, then I was just making sure someone knew

about it

Dispatcher: OK, thank you Caller: OK, thank you

Dispatcher: 2125 Dayton Fire

Caller: Hi, this is Joe _____ night supervisor at Earnst Enterprises on Wagoner

Ford Road

Dispatcher: Yes, sir.

Caller: I was wondering if I should get my men out of here or not

I noticed that fire down there at AGA or whatever it's at

Dispatcher: Well, all I can tell you at this time sir, is they haven't said anything to us about

any evacuations

Caller: OK

Dispatcher: I'm sure if it gets to the point that somebody should be evacuated they will do it

Caller: All right

Dispatcher: 2126 Dayton Fire

Caller: Hello, I was wondering if you have any information about a fire on Wagoner

Ford Road

Dispatcher: No sir, I have no information at this time

Caller: You don't know what it is that's burning there

Dispatcher: No sir, and I don't have time to talk about it

Caller: OK

Dispatcher: Thank you

Dispatcher: 2126 Dayton Fire

Caller: Yeah, this is Greg from Preston Trucking, we're pretty close to that fire that is

down the street, ah is that that chemical place

Dispatcher: Ah, Sherwin-Williams Paints

Caller: Sherwin-Williams

Dispatcher: Yeah

Caller: Is there going to be any evacuation

Dispatcher: Ah, at this time we haven't heard anything about any anticipation of it

Caller: OK, cause we're pretty close

Dispatcher: Well, I'm sure if they feel that it's necessary, they will evacuate the other people

in the area sir

Caller: Thank you very much

Dispatcher: Yes Sir

Dispatcher: 2126 Dayton Fire

Caller: Yes, are you aware of the fire at Sohio

Dispatcher: It's not Sohio sir, and yes we have equipment out there

Caller: Is it should we leave the area

Dispatcher: Ah, at this time I would say no sir, they have not been any alarm for evacuation

Caller: And it's not Sohio

Dispatcher: No it's not

Caller: OK

Dispatcher: Sir, I'm sorry I don't have time to talk to you I'm really busy

Dispatcher: 2127 Dayton Fire

Caller: OK, I live at 3801 South Shore Drive, in Dayton, and there's a fire over the

apartment across from my window I didn't know if anyone had called

Dispatcher: Are you sure it's coming from the apartment or are you looking over the top of it

Caller: I'm looking over the top of the apartment across the yard from me

Dispatcher: OK, and you're seeing an extreme amount of smoke and flames

Caller: I'm seeing flames and smoke, yes black smoke

Dispatcher: OK, could that fire you're looking at be over ah off Wagoner Ford Road

Caller: I don't think so, I think it's right here in this housing development, cause it's

the only thing I can see from where I' m at

Dispatcher: 3801 South Shore

Caller: Yeah, that's my address, I don't know what that address is over there but if you

come around here, you'll see it yourself

Dispatcher: Well we've got a big fire down on Needmore Road there and the flames may be

what you're looking at

Caller: I don't know

Dispatcher: What's your phone number

Caller: My phone number here is 237-XXXX

Dispatcher: OK, have you attempted to walk over to that building and see

Caller: No my family lives there and I told them to call the Fire Department and they

ran out of the house so I thought I'd call, I don't know, maybe I'm just being an

alarmist maybe you're right, you know, but

Dispatcher: 38 across from 3801 South Shore, we'll get somebody to check it out

Caller: OK, thank you

Dispatcher: 2129 Dayton Fire

Caller: Yeah, this is Jerry over at Andy's, you got a report on this fire over here

Dispatcher: Oh, yes sir

Caller: Where's that at over here, I can see flames

Dispatcher: Over off Needmore Road

Caller: Off of Needmore, all right

Dispatcher: 2129 Dayton Fire

Caller: Ah, hi, I live at 606 Brandt, which is right across the street from all the gas and

oil tanks, has anybody reported a fire

Dispatcher: They sure have ma'am

Caller: Oh, OK, 'cause we haven't seen any action yet, OK, thanks Right

Dispatcher: 2129 Dayton Fire

Caller: Do you have anything about a fire on Wagoner Ford Road

Dispatcher: Yes sir we do

Caller: Is there any point in anybody being evacuated at this time

Dispatcher: Not at this time no sir

Caller: Well, OK, we live close to it and I'm just wondering if we should be out or

anything breathing it

Dispatcher: No, I don't know of any reason for alarm at this time

Caller: OK, thank you

Dispatcher: 2130 Dayton Fire

Caller: Yes sir, that fire's that's on the east end, can you tell me if that's some that's com-

ing from that is toxic or not

Dispatcher: No

Caller: You don't know

Dispatcher: As far as I can tell you at this time, we have no reason for alarm

Caller: OK, I just wanted to check, I had some kids out playing and

Dispatcher: Right I can understand that sir

(Tape Transcription from Dispatch Log Tape Ended)—2130 Hours

TELEPHONE BOARD #2

Dispatcher: 2106 Dayton Fire Department

Caller: Ah, yeah I don't know if there's been a report but there's a fire at the Sherwin-

Williams Warehouse at on Dayton Park Drive

Dispatcher: They're on the way sir

Caller: OK, ah you might want to send some ambulances down there too

Dispatcher: Where's that

Caller: The same place

Dispatcher: Why's that, are there a lot of people still there

Caller: Oh, yeah, they're working

Dispatcher: Do they know it's on fire

Caller: They're out of the place but it's burning bad

Dispatcher: OK

Caller: Thank you

Dispatcher: Thank you

Dispatcher: 2107 Dayton Fire Department

Caller: Yeah, this is Ted _____ at Kittyhawk Golf Course, there's a big explosion

Dispatcher: Yeah, we've got them on the way, Sherwin-Williams

Caller: Yeah, right off Wagoner Ford Road

Dispatcher: Yeah, we got them on the way

Caller: OK

Dispatcher: Thank you sir

Dispatcher: 2109 Dayton Fire Department

Caller: Ah, yes we need a fire truck out on Troy Pike, Troy Street you know where

North Lake Hills is, right across the street from North Lake Hills, they have a

great big old bundle of fire

Dispatcher: What's burning

Caller: I have no idea, my husband just went over there to find out

Dispatcher: Now we've got a fire over on Dayton Park Drive, is that what he's seeing

Caller: Dayton Park Drive, is that close to Troy Street

Dispatcher: Well yeah, you can see it from there, it would be over there by the golf course,

is it a building

Caller: I can't tell we just see big black smoke coming up in the air

Dispatcher: OK, that would be over there at that Dayton Park Drive, we've got a second

alarm fire over there and from where you're at you can see straight through

Caller: OK, I just wanted to make sure

Dispatcher: OK, thank you

(Several calls from residences--interrupted on transcription by hearing Radio and PA conversation)

Dispatcher: 2112 Dayton Fire Department

Caller: I know you're busy, Yes, this is Patty from Huber Heights Fire, do you have a fire

in the area of Needmore and Wagoner Ford.

Dispatcher: Yeah, up there on Chuck Wagon Lane

Caller: Bye

Dispatcher calling Chief 3

Chiefs son: Hello

Dispatcher: Yeah, Paul, we've got, Paul

Chiefs son: No, this is his son I don't know where he is right now

Dispatcher: OK, if you can get a hold of him, tell him we have a third alarm fire at Dayton

Park Drive

Chiefs son: Dayton Park, all right

Dispatch: We've got a third alarm at Sherwin-Williams over on Dayton Park Drive,

I'm on my way

Dispatch calling Chief 1

Chief's Wife: He's on the other phone, he'll be with you in a minute

Chief 1: Send 15's on up will you please

Dispatcher: Chief

Chief 1: Just send 15's on up I'm hearing it

Dispatcher: OK

Chief 1: Thank you

Dispatcher: 2116

Caller: Ah, yes sir, anybody called in for that fire over

Dispatcher: Yes they have, they're already over there

Caller: All right, thank you

Dispatcher: 2119 Dayton Fire Department

Caller: Yeah, there's a fire over on, I think it's Commerce Park

Dispatcher: Yeah, we've got a third alarm fire going ma'am

Caller: Better hurry

Dispatcher: They're there, they're there

Dispatcher: 2119 Dayton Fire Department

Caller: I'm calling from 150 Jenny Road

Dispatcher: Yeah, we've got crews on the scene for a big fire over there

Caller: OK, I called to make sure

Chief 1: What companies do you have

Dispatcher: Hold on just a second

Dispatcher: Coleman Yeah, Chief

Chief 1: What companies do you have in reserve

Dispatcher: Ah, the way it looks right now we don't have anybody left

Chief 1: No, no what reserve apparatus, what companies have reserve apparatus

(Call transferred to Supervisor's position in Dispatch Center - not recorded on Dispatch Log Tape)

Dispatcher: 2119 Dayton Fire Department

Caller: Ah, yes I live off of Valley Street, looking from Valley over toward Brandt you

have a big fire

Dispatcher: Yeah, we've got a third alarm fire going sir

Caller: Oh, sorry

Dispatcher: 2124 Dayton Fire Department

Caller: Yes, have you been called about the fire on _____

Dispatcher: Yes we have

Caller: OK, thank you

Dispatcher: 2124 Dayton Fire

Caller: Yeah, I live on Vermont Street and I can see the flames and I wondered

Dispatcher: Hung up

Dispatcher: 2124 Dayton Fire

Caller: Yeah, we're at R & R over on Valley have you got a report of a fire

Dispatcher: Yeah, it's over on it's by the Golf Course

Caller: Golf Course

Dispatcher: Dispatch

Co. 15: Chief 1 just come to 15's and told us to call and tell you that Engine 15 is sit-

ting here in the barn

Dispatcher: Well they shouldn't be

Co. 15: Well it is

Dispatcher: Huh

Co. 15: They told him he called down there they said they you guys told somebody that

we weren't that there was nobody here we have not been dispatched, we're still

here

Dispatcher: OK, thanks

(Tape Transcription from Dispatch Log Tape Ended)--2126 Hours

RADIO AND PA

Dispatcher: Box 455 that will be at Sherwin-Williams Paints, 3671 Dayton Park Road

That's Box 455, that will be Sherwin-Williams Paints,

3671 Dayton Park Road, we've received a couple calls on this,

Chuck Wagon Lane will be your cross

That will be Engines 12, 21, 8, Truck 14 and the East Chief

Engines 12, 21, 8 14, Truck 14, and the East Chief

OK, Engine 12, 21, 8, Truck 14, East Chief

All Clear

2107 Bowersock

Dispatch to East 2 we're still receiving numerous calls, says there's an explosion

and quite a bit of fire at Sherwin-Williams

East 3: Clearly, there's a large amount of smoke in the area, go head and dispatch me

a full second alarm, stage them to the entrance there by the Kittyhawk Golf

Course

Dispatcher: 2108

East 2 Dispatcher, go head and start me that second chief, make sure you notify

Chief 3

Dispatcher: 2108

Central 2: Central 2 Dispatcher, Central 2's responding

Dispatcher: OK, Central 2, 2109

Dispatcher: All companies, we're on master, we have a fire at Sherwin-Williams Paints, 3671

Dayton Park Road, first alarm response is enroute we're dispatching Engine 14,

4, 2, Engine 18, Truck 2, Truck 11, Central Chief

Dispatcher: That's Engines 14, 4, 2, 18, Truck 2, Truck 11 and the Central Chief

OK, Truck 2, Truck 11 you clear on the air

Dispatcher: Dispatcher, Engine 14 is clear and responding

OK Engine 14, 4, 2, 18's, Central Chief clear,

Truck 11 are you clear on the air?

2110 Bowersock

Dispatcher, Truck 2 is out of service, you can place Rescue 1 back in service

That's clear Truck 2, 2111

Engine 9's in service

Truck 2 dispatcher, Truck 2 is in service, Engine 2 is out of service, Truck 2 is

responding

Engine 9's in service OK, Engine 9, 2111, Clear

Paramedic 2 is in service, I'll be enroute to the other scene, 2111

Paramedic 2: Do you have a medic unit responding over there

Dispatcher: Not yet, 2111

Clear

Engine 18 Dispatcher, give us a repeat on the address

That will be 3671 Dayton Park Road

18 clear 2111

Dispatcher: Medic 4 to Dispatch, we can respond

Car calling repeat

Medic 4 to Dispatch, we can respond to that fire

Dispatcher: OK, Medic 4 respond to 3671 Dayton Park 2112

4's clear

West 2's in service

2112

Truck 2 Dispatcher, we're responding on that, Engine 2 is out of service

Dispatcher: Engine 8's on the scene, we have a whole building completely involved

2113

East 2 Dispatcher, I'm on the scene, we've got a large building, about 200 by oh possibly 300, pretty well fully involved. Stage me a third alarm make sure the third alarm response stays out on Wagoner Ford Road. I'll also need dispatch the

foam truck, I'll be Sherwin-Williams Command. 2114

Dispatcher: Engine 9, 11, 16, Truck 16, Truck 15, and the West Chief

respond to 3671 Dayton Park Drive, that will be Sherwin Williams, that's a third

alarm

Dispatcher: Engine 9, 11, 16, Truck 16, Truck 15 and the West Chief

OK, Truck 15, Engine Truck 16, Engine 9 you clear

Clear

Dispatcher: Engine 11 (responding)--Companies on the scene you're on master

You're on Channel 1

Dispatcher: Engine 11 you clear

Clear West Chief West Chief Clear All clear 2116

Dispatcher: Paramedic 2 to dispatcher, would you have all the medic crews use their telem-

etry channel 9 to your communication, so they don't mess up our radio traffic

out here

Ok, Paramedic 2

All Medic companies are you clear on that, use your telemetry instead of the

radio channels

East 2: We'll need one, two medics here on the fire scene, as soon as you can get them

here, we do have injuries also, give me rundown of the second alarm response

you've got staged out there on Wagoner Ford.

Truck 11 on the scene

East 2: Command to Dispatcher, tell me again what was my second alarm

dispatch.

Dispatcher: OK, command your second alarm response was Engine 14, 4, 2,18, Truck

2, Truck 11 and the Central Chief

Chief 3 to dispatcher, we're going to need a lot of traffic control on Wagoner Ford, this is a huge building fully involved, and we have gawkers taking up all

of Wagoner Ford

2120

Command to Dispatcher, quote, listen carefully, I need a run down of the first alarm, second alarm, third alarm companies, give it to me slow so I know

exactly what I've got here, what you dispatched.

Dispatcher: OK, Command, first alarm - Engine 12, 21, 8, Truck 14

Clear so far

Dispatcher: Standby a second. OK. Command your second alarm

Engine 14, 4, 2, 8, Truck 2, Truck 11 and the Central Chief

Clear, third alarm

Dispatcher: Third Alarm - Engine 9, 11, 16, Truck 16 and Truck 15

Chief 1 dispatcher, responding

Dispatcher: 2127

Chief 1: Are you aware there is somebody at 15's, Engine 15

We are now

Medic 15 to the dispatcher, we're in service from Good Sam

Do you want us to report to the fire scene

Dispatcher: Standby at this time, Medic15

Clear standing by

Medic 4 removing one to the Valley, burn victim

Dispatcher: 2118

4's is clear

16's in service from St. Elizabeth Engine 16's in the staging area

2129

Chief 3: Command to Dispatch, this entire structure it is a very large 1 story structure

full of flammables. It is completely involved and it will be a total loss.

2132

Chief 3: As far as possible, I'm going to commit no more resource to the area, our posi-

tion right now is one of standing by in a very defensive posture

2133 Clear

Dispatcher:

Engine 2, made an investigation in the 2000 block of Troy Street, we don't know if that's a separate fire or if the people are seeing the fire over on Dayton Park Drive but we're getting a lot of calls about, I have no other information except it's in the, gentleman called from 2050 Troy and he said across the street from him there was a large amount of smoke, your cross street will be Jergens OK, Engine 2, 2135 West

Medic 8's in service from Good Sam, do you want us to report to the fire scene

Ah, standby in the area Medic 8

Clear

Dispatcher: Dispatcher to Dayton Park Command

Go ahead

Dispatcher: Do you need any medic units over there....Dayton Park Command, were you

clear on that?

Command to Dispatcher, ah hold that, we have two medic units on the scene that we are aware of, Medic 10 and Box 21 is on the scene, that will be suf-

ficient for the time being

Very good, thank you much, we need them

Inspection 1 is on the air and heading out for the scene

2137

Dayton Dispatcher, Kettering 4 in service

2137

Chief 1 on scene

Engine 2 dispatcher, this call that was called in on Troy Street is part of the

large third alarm fire, you can place Engine 2 in service

Dispatcher: OK, that's what I thought, 2142

Engine 2 clear

Chief 3 to Dispatch, Chief 3 to all units on the fire scene

Chief 1 will be Incident Command, Chief 3 will be Operations Command, please address us by those titles, I want all Sector Officer go to Channel 3, are

you clear on that dispatch

Dispatcher: OK, Chief 3, you are Operations

That's clear Chief 1 is

Chief 1 will be Incident Command

Dispatcher: Incident, OK, and what was the rest of it then?

All Command Officers to Channel 3, Chief 1 will be Dayton Park Command

2144 Clear

Investigator 8 Dispatcher, I'm in the area at the scene 2145

Chief 1 Dispatcher, I'm taking command of the fire, Command Post remains at the northwest corner of the building, this is a 200 by 100' 20' single story building, totally involved probably total loss, will casualties, two we know of, one reported missing. I also have exposures to trailers.

Long time on this operation

Dispatcher: Thank you 2146

Clear

Dispatcher: Car calling, repeat

West 1 dispatcher, what is the address of the third alarm fire

3671 Dayton Park Drive, that runs off Chuck Wagner Lane which is a street that

goes into, ah, off Wagoner Ford Road

Clear 2149

Dayton Park Command dispatcher, I'll need police assistance on the scene, we're

starting to get infiltration of spectators

Dispatcher: Police have been notified about this

I need them on the scene

2150

Dispatcher to Dayton Park Command, I informed the Police of the situation and asked for as big as task force as I could possibly muster 2151

That's clear, we're going to have a tremendous problem with the crowd overrunning this fire scene and it is exploding and still detonating in and around the fire, we cannot guarantee anybody's safety, let along ours

I've asked for a battalion (interruption by sounding signal)

(conversation ended)

Dayton Dispatcher, Kettering 4 responding to Station 15

That's clear, 2152

Investigator 1 on the air

2155 Clear

Dayton dispatcher Kettering 4 out at Station 15

Chief 1: Dayton Park Command to Dispatcher, can you give me a run down of what

we've got in protecting the rest of the city in terms of Chief Officers and

equipment

Dispatcher: Ok, at this time we have Engine 10, we have at Co. 2's, 15's at Co. 4's, Madison

truck and a Moraine engine at Co. 11's

We got Engine and Truck 13 in quarters, Harrison Township has a truck and an engine at Co 14's, Kettering engine and truck at 15's and Engine 17. We're well covered as far as the city's concerned.

Chief 1: Do you have Chief Officers in three districts?

Dispatcher: There's some enroute now

Chief 1: Take your first 3 chief officers that report on the air and assign them districts,

send the next chief officers to this fire. I do not need chief officer support more

than I need them to protect the city

Dispatcher: That's clear, we have Chief 4 at Headquarters also

Dispatcher to East 1, Dispatcher West 1

East 1: Go ahead, East 1

Dispatcher: Yeah, are you enroute to quarters now

I'm enroute to 2's to pick up a driver

Dispatcher: That's clear, then you'll take the East side Chief then

East 1 clear

Dispatcher to West 1

West 1, I've been given assignment by Operations Command

I'm nearly on the scene of the fire now

Chief 1 Cancel that, this is Incident Command, go run the district

We'll get you something else

Dispatcher: West 1 you'll be West Side Chief

West 1 clear

2159

Investigator 4 on scene

2204

Dispatcher to Incident Command, have any removals been made to area

hospitals

Dispatcher: We have an indication that we have 1 removal but I don't know where the indi-

vidual was removed to

That's clear 2204

Medic 4 to Dispatch that removal was made by us to the Valley

2.2.0.5

4's is in service and clear

Chief 1: Command to Dispatcher, has the City Manager been notified of this incident?

Dispatcher: Could you repeat your message please

Has the City Manager been notified of this incident?

We're notifying him now

Thank you 2205

Dispatcher to Incident Command

Chief 1: Command go ahead

Dispatcher: We're getting a lot of calls, has there been any talk about evacuation out there

Chief 1: No, evacuation at this point is not necessary, we have a fire that is essentially

isolated with the exception of an exposure of trailers around the building, the closest other structures are at least 100 feet away, there is a considerable amount of exploding and evolving fire, a this point however, does not need evacuation

Dispatcher: That's clear, 2209

Dispatcher: Chief 1, the Assistant Manager is concerned with the reclamation fields out

there as far as water tables, is there any concern there, does he need to contact

anybody?

Chief 1: We have made contact with the Water Department, they're enroute and we also

have the Environmental Specialist from the Water Department on scene moni-

toring that situation

You can assure him that we're taking a close look at it and we'll make whatever

decisions we need to secure the water system

Dispatcher: He requested that we contact him if there is any significant changes, so if you

want to relay that through us, we can handle it.

Dispatcher: Dispatcher to Incident Command

Command go ahead

Dispatcher: Yes sir, we have the names of six employees from out there and when this inci-

dent occurred they fled the scene, but we do have six names here if you need any

Chief 1: I would like to confirm if all six are able to talk to you, we've made one

removal, if you can talk to the other five or talk to someone who has, I'd like to

know that, we're treating it as though we have victims

Dispatcher: OK, each one of these people on the list have been confirmed

Chief 1: So, in other words, all six have been confirmed as alive

Dispatcher: That is correct, 2212

One injury

Dispatcher: We've have Medic call us when they get back with the injury and get a report

Thank you

Investigator 1 Dispatcher why don't you contact Investigator 7 have them stop

by the Valley and let him talk to that person

Dispatcher: 2213, Investigator 7

Go ahead

Dispatcher: Would you stop by the Valley and talk to the person removed from Wagoner

Ford

I couldn't copy you

Dispatcher: Would you stop by Miami Valley Hospital and talk to the individual who was

removed from Wagoner Ford Road

That's clear sir

Dispatcher: That's per Investigator 1 at 2213

Command to Dispatcher, could you confirm whether or not you talked to Joe

Crone

Dispatcher: No, we that's not one of the names we have sir

That's the one we're hunting

2213

Inspector 4 in service

2213

Inspector 4 clear

Training Center responding to the fire on Dayton Park

2214 Clear

Chief 1 Command to Dispatcher, were you able to contact the Public Information

Officer

Dispatcher: We're working on that now

Thank you

Dispatcher Dayton Fire Command

Chief 1: Command go ahead

Do you have a Medical Sector there, we need to know what medics we have on

the scene

Chief 1: I'll get back with you in just a second, we do have Chief 5

yes, Chief 5 is Medical Sector

2217

Investigator 1 is on the scene

Command to Dispatcher, we have Medic 4 and Medic 10 along with Harrison Township Medic, and a Box 21 Unit assigned to this, make that Medic 8 and

Medic 10

Dispatcher: Thank you, 2218

That's clear, we'll hold those by the way

Dispatcher: That's clear, 2218

Chief 1: Command to Dispatcher, do you have any other day off chief officers respond-

ing to this fire

Dispatcher: That's negative

None available

Dispatcher: We have them in the district we can send out

I'm asking you were they contacted and they did not respond

Dispatcher: Command, every chief we got a hold of is responding

Chief l: I can't hear you

Dispatcher: Every chief we got a hold of is responding

Chief 1: That's clear, now I'm going to ask you again, do you have enough that your

districts are filled and a surplus of chief officers are coming to the fire scene

Dispatcher: We have no surplus at this time

That's clear

Dispatcher: The districts are covered

All three districts are covered

Dispatcher: Affirmative

Thank you 2220

Investigator 7 I'll be at the Valley

2223

Chief 1: Command to Dispatcher can we get some kind of a canteen out here, we've got

some people that are getting pretty thirsty and dehydrated, Box 21, Red Cross,

somebody would help

Dispatcher: I believe Red Cross is enroute and Box 21 also

Chief 1: That's clear

Command to Dispatcher, have you been able to contact anybody from the

Training Center

They're on their way out there

Chief 1 Clear, thank you

Investigator 5 on the scene

2232

Dispatcher: Dispatcher to Dayton Park Command

Chief 1: Command go ahead

The man that you were looking for, Joe Crone, he is home

Chief 1: Clear, thank you

230

Garage 4 Dispatch

Go ahead

Garage and Garage 2 are on their way to the scene on the air

2234

Maintenance 3 Dispatch

Go ahead

Maintenance 3 and 4 we're enroute to the scene with fuel

Dispatcher: Would you repeat your message please

Maintenance 3 and 4 enroute to the scene with diesel fuel

2237

Maintenance 3: Do you go off Wagoner Ford Road

Would you repeat your message Is the location off Wagoner Ford Road

Dispatcher: At Dayton Park Drive

Clear 2237

Dispatcher: Incident Command, have the site management people from that company con-

tacted you at the scene

Yes they have

Dispatcher: Clear they have a liaison established at the Radisson

They were contacting us to make sure you had people on the scene

Yes plant manager's been here

Dayton Park Command to Dispatcher, can you give me a rundown on the time

of alarm, and calls for equipment

Dispatcher: OK, Incident Command at 2107 we sent the first alarm at 2110 we sent a sec-

ond alarm response, and then at 2116 a third alarm response was sent

Chief 1: That's clear, thank you

2249

Command to Dispatcher, has EPA been notified of this fire

Not at this time

Chief 1: Ah, call their office and at least make them aware of what's happening

2253 Clear

Dispatcher to Incident Command

Go ahead

Dispatcher: Did you say you did have a fatality out there

Chief 1: We are unable to determine that at this time

Ok, so you won't be needing the chaplains or anything out there

We will notify you

Dispatcher: That's clear 2255

Dispatcher to Incident Command, EPA has been aware of the situation

Chief 1: That's clear

2257

Investigator 7 cleared from Miami Valley enroute to the scene

2304

Medic 14 Dispatcher

Go ahead

We're in service with the medic

2306

Command to Dispatcher, I understand you had an inquiry about the need for a

chaplain Yes we did

Chief l: I don't think we'll need them for anybody in the normal sense here, we believe

we've got everybody accounted for

ah, and short of some kind of injury to personnel here or breakdown by management here, I don't think we'll need any of the chaplains assistance at this

point

Dispatcher: 2316

Dispatcher to Incident Command

Chief 1: Incident Command Dispatcher, go ahead

Dispatcher: Ok, Wright Pat called us on the phone and said if there is a need for foam that

they do have a foam truck available

Chief 1: That's clear, we'll keep that in mind as a resource, we're still trying to deter-

mine whether or not we should make an application of an extinguishing agent

because of the possible contamination of the wellfield

2327

Chief 1: Thank you

Medic 18 Dayton Dispatcher, Medic 18 will be in service

Medic 18 2328 Medic 18 clear

Dispatcher: Medic 18 come down to fill in at 4's

Clear 2328

Dispatcher: Medic 18 fill in at 13's

Clear 2329

Medic 18, Dispatcher to Medic 18

Go ahead

Are you a two person crew right now

Affirmative

Medic 18, go by Co. 14's pick up 1 paramedic there and you'll be running with

3 paramedics

That's clear we'll be enroute to Co. 14

Dispatcher: That's clear 2333

Inspection 3 enroute to the fire scene

Dispatcher: Maintenance 3 did you say you're enroute to the fire scene

Inspection 3, that is correct

Dispatcher: Maintenance 3 you're breaking up cannot copy

Inspection 3 is enroute to the fire scene

Dispatcher: That's Inspection 3?

That's correct

2335

Investigator 1 to Dispatcher, do you have a location as to where the employees

went to meet

Dispatcher: They've been calling in from all over

They didn't go to meet at one place or location

Dispatcher: Not that I know of

Clear

Dispatcher: 2336

Dispatcher to all companies, if you have all unassigned personnel in quarters,

call 3316

That's dispatcher to all companies, if you have any unassigned personnel in

quarters at this time, call 3316.

Dispatcher to Investigator 1 Investigator 1 Dispatch

Go ahead You called me

Yes sir, we have a report that a few of the employees from there are up at the restaurant on Webster and Wagoner Ford

At Webster and Wagoner Ford

That's correct Clear thank you

2342

Medic 18 to Dispatch, we have our third person enroute to Co. 13's 2347

Dayton Dispatcher, Kettering 4 leaving Station 15 enroute to quarters

Dispatcher: Thank you, Kettering 2347

May 28, 1987

Dayton Park Command to Dispatcher, this fire is essentially confined, not under control, we will probably have crews here throughout the night, but I do want to indicate that it is no longer in such a mode that it is continuing to expand,

but what we got will burn for a considerable length of time

Dispatcher: Thank you command 0012

Thank you

Dispatcher to Incident Command

Chief 1: Command go ahead

Dispatcher: Will you be needing anymore Garage personnel out there, they have 3 at the

Garage at this time

Chief 1: I don't know, we're going to have a fueling problem that kind of problem

over a long hall operation, these crews will be here all night and probably into

tomorrow.

Dispatcher 0018

> Command to Dispatcher, would you have the Central Chief get his explosive meter and run it out here, if he's not sure as to the operating condition of the explosive meter, poll the chief officers on duty, get one that works, get it out to

me as quick as we can, please.

0038 Dispatcher:

Clear

Dispatcher to Incident Command

Chief 1: Clear

Ok, Central Chief is on his way to 11's to pickup that explosive meter, they'll be

enroute to your location

That's clear 0045

Command to Dispatcher, can you give me the time that I indicated this fire was

confined

Dispatcher: That time will be 0012

Thank you

Dispatcher 052

Dispatcher to Incident Command

Chief 1: Incident Command, go ahead

Have you got a mechanic there that you can release to go to Miami Valley

Hospital, Medic 15 will not start

Chief 1: We got a mechanic running around here, we'll relay the message

134

Dispatch, this is Garage 4

Dispatcher: Go ahead

Ah, we're enroute to pick up some more diesel, you want us to swing by the

Valley and check it out

Dispatcher: Yes sir you can do that, you going to go before you get the diesel?

Ah yeah, we can stop by before we fill up

Dispatcher to Incident Command

Command, go ahead

Do you have an urgent need for diesel fuel at the scene there

Chief 1: I haven't been made aware of any

Dispatcher: That's clear, 135

Dispatcher: Ok, Garage 4 continue on to the hospital

Ah, that's a roger, we're enroute right now

Dispatcher: 135

Dispatcher to Medic15

15's go ahead

Dispatcher: Garage 4 is enroute to your location at this time

Clear 136

Incident Command, Dispatcher, would you send us your closest engine with an AP and we'll release one of your staged engines, we've got some brush fires that we need to deal with out here, we'll need a four wheel drive vehicle

Dispatcher: 156

Clear

Dispatcher: What do you actually have in staging at this time?

Chief 1: We have Engines 9, 11, 16, Truck 15 and Truck 16 and Engine 18

We'll release Engine 18

Dispatcher: That is clear

Dispatcher: Engine and AP 15 respond to the fire scene, that will be 3671 Dayton Park Drive

That's Engine and AP 15 respond to 3671 Dayton Park Drive

That's at the fire scene

Ok, Engine 15 and AP 15 158 Coleman

Engine 18 Dispatcher, we're in service from the fire scene enroute to quarters

Chief 1: Command to Dispatcher, can you tell me what we've got staffing our stations

right now and where they're located

Dispatcher: Co. 2's we have Engine 10; Co. 4's we have Engine 110 and Medic 4; Co. 8's we

have Engine 108, Co. 11's we have Engine 111 and Truck 111; Co. 12's we have Huber Heights Reserve and standby personnel; Truck 13 at 13's, Engine 13 at 13's; Engine 116, Truck 113 at Co. 14; Engine 118 at Co.'s 15; Engine and AP 17 at Co 17's; Engine 18 enroute to Co. 18's; Engine 2, Truck 102 at the fire scene

at 115 Samuel; that's it for now.

Chief 1: Thank you, it looks like we're still in pretty good shape

Dispatcher: That's true, and we do have a chief for each district at this time

Chief 1: Thank you

206

Engine 15's on the fire scene

214

Investigator 1 Dispatcher, all investigators have been released from the fire scene

217 Clear

Investigator 1 Dispatcher, when Investigator 6 clears the scene on Samuel would

you inform him that you can send him home

Dispatcher: That's clear, Investigator 6 are you clear on that message?

Dispatcher to Investigator 6

228

Investigator 6 clear of Samuel, and out to the fire scene

Dispatcher: Ah, per Investigator 1, you are released to go home

Ok, Investigator 6 is clear, thank you

236

Investigator 7 I'll be off the air

241

Medic 10 dispatcher we're released by Incident Command we'll be remaining

out of service, going to the Valley for equipment

256

Medic 10's clear

Chief 1: Incident Commander to Dispatcher, I'm going to be releasing Engine 9, 11, 16,

Truck 15, Truck 16 and Truck 2 and you can release all day-off personnel when

they go in service

Dispatcher: That's clear, 257

Chief 1: For all intensive purposes, this fire will continue to burn throughout the night

into the morning, part of the day tomorrow I guess, we're gong to continue to let this burn and the companies that are on scene will be evaluated as to what

will be kept and released when I shift command over.

Dispatcher: 257

Clear

Truck 16's in service from the fire scene

302

Truck 16 clear

Truck 2's in service from the fire scene

303

Truck 2 clear

Paramedic 2 in service

303

Paramedic 2 clear

Truck 15 in service leaving the fire scene

303 15 clear

Engine 9's in service

303 Clear

Chief 1: Command to Dispatcher, command of this incident is being transferred to Chief

3, Chief 1 will be in service, these crews, again, will be here most of the night,

in fact, all night.

Dispatcher: 304

(Tape Transcription Ended from Dispatcher Log Tape)

APPENDIX F

DayTon Diely Dewis and Journal Hearld Hay 29, 1987

'Environmental nightmare come true' "I would point to that as an example that well fields and industrial parks are two beasts that do not belong together—especially where the geologic setting affords no protection to our ground water." The charred, still-smoldering ermains of the Sherwin-Williams watehouse are near the center of an 84-acre site known as the Concourse 70/75 Industrial Park. The city-owned site was opened to industrial development in 1973, and at one time was anysioned as the core of an industrial park that would spread over much of the Miami well field—which presently is occupied by the Kittyhawk Golf Course, a system of city water department recharge lagoons and a water-treatment plant and

By Jim Babcock STAFF WRITER

Dots show locations of wells

the fire-leveled Sherwin-Williams Automo-tive Distribution Center had long been "a problem walting to be an accident." For Sierra Club leader Joe Bockelman

Henry, the raging, chemical-fed conflagra-tion at the paint warehouse was "an envi-ronmental nightmare come true." For Dayton City Commissioner Mark

What worried both men, and the Ohio Environmental Protection Agency as well, was the building's proximity to Dayton's 830-acre Miami River, Well Field.

"The whole situation out there is one that never should have happened," Bockelman, who is vice chair of the local Tecumseh Group of the Sierra Club, said

Sta of fire

KEVIN RILEY/STAFF

said Henry, who was elected to the City Commission in 1983.

"It would be my position now that that site wouldn't be used for any other industry
— unless they want to propose a cottoncandy warehouse or something like that."

The city changed its mind about expanding Concourse park in 1983, after a Florida consulting firm warned that further develution opment would greatly increase "risks in destroying the water resource" underlying the site and the adjacent well field.

that "a significant potential hazard" al-ready existed at five of about 20 structures on the site. And the company recommended a series of steps to prevent the release of The consultant, CH2M Hill, also warned nazardous substances - including keeping SEE ENVIRONMENT/4

"But the way that City Hall weighed the policy options then, I guess, was a little different than we probably would now."

BANGA NORMAG

GAORINA OAS

Fri., May 29, 1987

Dayton Daily News and Journal Herald

Environment

CONTINUED FROM/1

out "prospective tenants which use or have as a byproduct ... any material listed or classified as hazardous."

The CH2M Hill recommendations led to a June 22, 1983, City Commission resolution promising that Concourse park would not be expanded and that all future development within the park would be carefully screened to assure that it posed minimum potential for contaminating ground water.

But that step failed to satisfy the Ohio EPA, which had specifically cited the Sherwin-Williams warehouse as a high risk in an October 1980 letter asking the city to take steps to minimize the potential for ground water contamination from chemical spills.

... The letter noted that the warehouse contained an estimated 1.5 million gallons of paint and paint solvents that could cause extensive contamination if they were accidentally spilled.

Ironically, city and Sherwin-Williams officials agreed that a "major fire" at the warehouse could pose the greatest hazard if paints and solvents were carried onto the wellfield with water from firefighters' hoses.

But the officials also said fire was a remote possibility, because the warehouse was equipped with an automatic sprinkler system. And the Sherwin-Williams spokesman surmised that if there were a fire, most of the chemicals would be consumed by flames.

Fire officials said Thursday, though, that the fire was so intense because of those chemicals that it overwhelmed the sprinkler system.

After speaking out in 1980, the Ohio EPA did not again make its concerns public until early 1983, when it criticized the city for permitting another Concourse tenant, Purolator Courier, to bury two 12,000-gailon fuel tanks at the company's new location in the park.

Then in 1984 --- after traces of cancer-causing industrial degreasing soivents were detected in several wells near the north end of Kittvhawk Golf Course — the state agency began intensified negotiations that led to an agreement committing the city to refrain from developing any remaining vacant parcels in the industrial park.

The January 1985 agreement also committed the city to development of a well field protection and management plan and to requiring Concourse's existing tenants to establish safeguards to prevent chemical and fuel spills from escaping to areas where they could seep into ground water.

- Henry said he feels the agreement has helped establish "an uneasy middle ground."

"The tough question we all reach at some point in time is, what do we do about business development that already exists in environmentally sensitive areas? ... You make it as safe as possible. You take all the steps you can take and put in safeguards so that if things do happen, you don't get hurt as bad," Henry said.

Henry also said the Sherwin-Williams warehouse "was the greatest concern" because of "the sheer quantity of the contaminants they handled." But he surmised that safeguards already installed in the warehouse may have helped contain unburned chemicals.

"For example, a concrete apron they were required to extend probably helped keep runoff from spreading," he said.

Bockelman saw the situation differently, however. The Sierra Club official charged that the city has been slow in implementing the wellfield protection steps called for by the agreement.

"The city has been playing this game too long - kind of toying with the risks," he said.

"They should have tried to relocate Sherwin-Williams right away. It just flies in the face of modern environmental protection.... These water problems we're facing are just textbook illustrations of what government is supposed to prevent."

Bockelman also said his criticisms of Dayton's wellfield protection efforts extend as well to the city's Mad River Well-Field, which stretches between Finley Street and Rohrer's Island in East Dayton.

"I guess this has brought us to the point where we feel we've got to abandon the (Concourse) industrial park. The water is just too delicate a resource to jeopardize with facilities such as Sherwin-Williams. And if that's true. we must abandon Gateway (Industrial Park, near the Mad River field) as well.

"But we've committed millions of dollars," Henry said, "and the city is trying to implement one of the most progressive water management plans in the country."