Factory Fire involving Sodium Cyanide & Hydrochloric Acid

August 14, 1985

(Capt. Jack Fanning / FF James Oliveri / FF Larry Singletary FF John Olewnicki / FF Kevin Smith / FF Dave Murolo FF Rick Gimbl / FF Rich Murphy Eng. 288)

Hazardous Materials Company #1 was specially called to Queens Box 6001 and arrived with the first-alarm units. The unit was met with the following conditions: A heavy fire and smoke condition in a 1 story factory; (15x100) with reports from factory personnel of Large Quantities of SODIUM CYANIDE and various Acids and other highly toxic chemicals. First alarm units were ordered out of and away from the fire building. Haz-Mat #1 immediately set up safety boundaries and prepared for a 10-80 Code "1" Operation with Fully Encapsulated suits. Captain Fanning, Firefighters Singletary, Gimbl, the entry team, entered the fire building in Eastwind CP-1111 Butyl Rubber Suits with carbon dioxide and dry Chemical extinguishers. With Heavy Fire in cockloft over members heads and, to their right, the Entry team conducted a survey of factory floor, extinguishing fires around vatsof Acid and Drums of Sodium Cyanide: F/F Oliveri protected this team as much as possible by directing a hose stream at the main body of fire. After completing the first attack this team exited the building to be relieved by the safety Team. The Safety Team, Firefighters Oliveri, Murolo, & Singletary suited up and entered the building. They continued to extinguish Fire with CO2 and Dry Chemical Extinguishers. F/F Smith, the resource man, maintained a constant Time Check of members "IN Suit" operating time, while coordinating with members of Haz-Mat #1 and department Officials at the scene. He also suited up in Level "B" PVC Suit to make the final survey. F/F Murphy performed all the necessary Logistical Support for the members, changing of SCBA bottes, aiding in the donning, and exiting of suits, etc. throughout the operation. All these operations were performed on the Hottest day of the year (95 F) which had a very debilitating effect on the members in the Butyl Rubber suits. This operation followed Two extended operations earlier in the day. (Unit operated 10¹/₂ hours on this day tour). Despite these conditions Haz-Mat #1 succeeded in extinguishing the extending fire and in mitigating the hazard in the factory by preventing the Sodium Cyanide from mixing with the

Hydrochloric Acid. They exhibited exceptional teamwork and a high degree of technical knowledge and professionalism, bringing the operation to a successful conclusion.

Area in Queens Is Cleared Out In Toxic Threat

A Fire at Factory Raises Danger of Lethal Gas

By ERIC PACE

A fire yesterday at a Queens plant containing various cyanide compounds forced the evacuation of homes in sur-rounding blocks and injured 11 fire-

rounding blocks and injured 11 fire-fighters, officials said. The cyanide compounds could have created a lethal gas had they been mixed with water from firefighters' hoses, Fire Department officials said. The police and firefighters evocu-ated several blocks surrounding the site of the blaze — a one-story brick building at 100-15 94th Avenue in Ozone Park, a neighborhood of small bouses. Park, a neighborhood of small houses

At Electroplating Plant

The fire was reported at 2:08 P.M. It broke out in the roof of the 40-by-100-foot building, which houses the Liberty Heat Treating Company, a concern that does electroplating, Fire Department officials reported. One hundred firefighters in 25 vehi-

cles were at the scene and had the fire under control by 5:08 P.M., said a department spokesman, Firefighter Al-bert Brown.

The company made no comment. Its telephone was busy late yesterday af-temoon, and a man at the scene who was identified by firefighters as the company's owner declined to asnswer reporters' questions.

There were no reports of other casu-alties. Firefighter Brown said the 11 firefighters suffered burns and were not injured by the chemicals in the plant. He said that the 11 had been taken to different hospitals but that none were badly burned.

Cyanide Compounds in Drums

A police spokesman, Sgt. Raymond O'Donnell, said late yesterday after-noon that the fire had not reached 74 55gallon drums at the site containing cyanide compounds. Fire Chief John J. O'Rourke said at

the scene, however, the danger of pos-sible toxic fumes arose not from the ef-fect of the fire but from the possibility that water would mix with the com-pounds in a vat.

The vat, about 2 feet high and 2 feet in circumference, was entirely filled with a water solution of plating chemicals, 60 percent of which consisted of a mixture of sodium cyanide and potasium cyanide, according to Pire Chief O'-Rourke. The two chemicals are de-scribed in pharmacology texts as "vio-lent pointers."

Chief O'Rourke said the two chemi-cals could have given off a cloud of poi-sonous hydrogen cyanide gas, had they been mixed by water used to put out the



Firefighters working to control a blaze at a building in Ozone Park, Queens, that contained cyanide compounds.



#1/Aug. 15, 1965 The New York Fire Eleven firefighters were hurt, and bomes were evacuated

Hydrogen cyanide is the gas used to fumigate ships and to execute pris-oners in gas chambers. Because of the danger, Chief O'-Roarke said, firefighters used carbon dioxide fire extinguishers, not water, in fabring the flower symptot the yet fighting the flames around the vat. Firefighters did use water elsewhere at the fire, the chief said.

Seven specially traned firefighters from the Hazardous Material Unit of the Fire Department, wearing protecthe Fire Department, wearing protection did not immediately tive clothing, "actually went in to put tent of the damage.

the fire out." Firefighter Brown said. Solutions of either potassium cyanide or sodium cyanide readily dissolve gold, silver and other metals and are therefore highly useful in the electroplating industry since gold and silver are not readily soluble in other materi-216

The deputy police chief for support services, John J. Holmes, who was also at the scene, said the total number of families temporarily removed was not known. He said that "police officers knocked on doors, house to house," telling the occupants to leave their houses. The residents were allowed to return after the fire was declared under controi.

Mayor Comments

Mayor Koch visited the scene at about 4:30 P.M., saying, "I'm here be-cause as soon as I heard there was the potential of hazardous material being scattered in the area, I wanted to come to see what I could do."

Chief O'Rourke and other fire offi-cials said there would be an investiga-tion into the cause of the blaze.

The Chief said it seemed that "the fire started in ordinary combustible materials" in the roofing and was not the result of any chemical reaction or process.

He said that "at this point" officials had no knowledge of any violations of regulations at the plant. Police and Fire Department officials

estimate the ex-

'In an industrial society," the Mayor

told reporters, "when you use chemi-cals, they can be hazardous." The Mayor also said that city offi-cials would investigate the fire, which, witnesses said, sent heavy smoke pour-ing from the plant.

New Subway Cars Withdrawn To Remove a Derailment Risk

By Linted Press In

The Transit Authority said yesterday that it had withdrawn 40 Canadianmade subway cars from service on the IRT No. 1 lise because of failure to remove a coupling device that caused a risk of derailment on curves.

A Transi: Authority spokesman, Donna Evans, said the device had been attached to the couplings for shipment and should have been removed before

At they were pat into service. A Transit Authority senior vice presi-dent, David Feely, said the device could cause a derailment in the case of tight turn The devices are expected to be rea

The devices are expected to be to moved from the cars by Aug. 20. The cars are made by the Bombar-dier Company in Candada. Another shipment of Canadian cars scheduled for arrival on Aug. 21 has been suspended pending correction of a modification the authority had ordered