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| REFORMED BY: Ronk of Grade Name Nome Ronk of Grade Nome Nome | OX (highest glarm) BORO | UGH BLOOKTYII DA | TE 4-14-0/ | TIME LOUZ |
| ID ANY OTHER MEMBER PARTICIPATE DIRECTLY IN THIS ACT? From Paymond M. Meisenheimer Haz-Mat I Ronk Nome Unit Meritorious Act Report being forwarded for participating member? Yes If not, how did tember participate? OCCATION OF MERITORIOUS ACT OCCUPANCY Area Construction Occupancy Number of apartments in building Floor where act took place Room Olif not in building: Give complete descriptive information so that physical setting can be recreated. OF In not in building: Give complete descriptive information so that physical setting can be recreated. OCCUPANCY IN SEWEY Pipe 50' under ground (see diagram) PERSON(S) AIDED: MAME LODRESS MGE - SEX MESCUE BREATHING EXTERNAL CARDIAC MASSAGE RESUSCITATOR APPLIED MAME OF HOSPITAL DIAGNOSIS LENGTH OF HOSPITAL DIAGNOSIS LENGTH OF HOSPITALIZATION MEMBER PERFORMING ACT: Did be receive any emergency treatment? Checked by E M S specify at scene and later in Qts By Med Officer Dr. Soren WAS A MASK WORN BY MEMBER PERFORMING AT TIME OF REEQUE? Close down valve MAS MEMBER ALONE? No Diagnosis MHAT SPECIFIC JOB WAS MEMBER PERFORMING AT TIME OF REEQUE? Close down valve MAS MEMBER ALONE? No Officer unmediate unmediate their positions in #11. MAS A MASK WORN BY MEMBER DURING MEXICOPY Yes | ERFORMED BY: FF1 | James F | Hay Haz-Ma | t 1 |
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| Area, and describe their positions in #11. WAS A MASK WORN BY MEMBER DURING RESOURCY Yes | THAT SPECIFIC JOB WAS MEM | SER PERPURMING AT TIME | DL KESKAE , CTO | SE COMIL VALVE |
| was a mask worn by member during rescous Yes | WAS MEMBED ALONE 2 NO. | (If not indicate and to | s of Fire Department | negonnel is inli |
| WAS A MASK WORN BY MEMBER DURING RESOURCE Yes | | | i of rife Department | personnel in immediate |
| | | | 5 | |
| | | | | No |
| HOW WAS VICTIM REMOVED FROM PREMISES? Carried Dragged Assisted | | | | |

WAS A LADDER USED IN THIS RESCUE?_____ If yes, indicate type, size and placement

REPORT OF MERITORIOUS ACT

| FF1 | James | F. | Hay |
|-----|-------|----|-----|
| | | | |

| | Name | of | Member |
|-----|------|-----|----------|
| | | | |
| 4 - | 14- | K / | <i>r</i> |

| ** | | |
|--------------------------|------------------------------|--|
| AME (S) OF TWO CIVILIANS | WHO ACTUALLY WITNESSED ACT (| IF AVAILABLE) |
| NAME | ADDRE | No. of the second secon |
| | | |
| | | |

11.

On the arrival of Haz-Mat 1 at this incident the following DESCRIPTION OF ACT: situation was found. A sewage valve 50'below ground was opened by Environmental Protection Agency (EPA) workers to remove raw sewage from a damaged section of pipe. After the valve was opened the E P A monitoring equipment registered extremely dangerous levels of HYDROGEN SULPHIDE (h2S) in the manhole and surrounding area. At which time the EPA workers abandoned the work site, leaving the valve in the open position with a continuous increasing flow of raw sewage and H2S into the manhole and surrounding area.

Research conducted by the Haz-Mat team reinforced EPA knowledge of the EXTREMELY toxic and FLAMMABLE characteristics of H2S.In addition to having a upper explosive limit of 46%, lower limit of 4.3%, Flash point 76%, Specific Gravity 1.54 it is also a severe eye, skin, and mucous membrane irritant, poison gas and neurotoxin and at concentrations of 300 ppm it is IMMEDIATE DANGEROUS TO LIFE AND HEALTH.

A primary survey was conducted by FF. Meisenheimer and FF Hay, Haz-Mat 1 entry team for this tour and confirmed readings well over 100ppm of H2S above the manhole. Due to the Specific Gravity of H2S we knew that the concentrations would be much higher further down the manhole.

At this time the EPA foreman notified Dep. Chief Hatton 10 Div. and Batt Chief Birello 31 Batt that if the VALVE is not closed in 15 min. the sewage level would rise above it, making it almost impossible to close the valve. This would continue to give off increasingly high concentrations of H2S to the surrounding area posing a severe Respiratory and Fire hazard to the workers and area residents. (when water is mixed with H2S Sulfuric Acid is formed)

Due to safety factors (descending 30" manhole with 9 in. rungs) recommended Level A" fully encapsulated protection had to be waived for a lower but more muneuverable level of protection. Fully aware of the wide flammable range of H2S, but unable to monitor the flammable levels do to time constraints etc. FF Meisenheimer and FF Hay knew that they would have little or no protection against a Flash fire and exposure to TOXIC H2S. Secured to Life Saving ropes FF Meisenheimer ANd FF Hay started descending the manhole.

After descending 50' to bottom of manhole, both firefighters had to traverse a 8inch wide plank for 30 ft to reach the valve.

At this time the unknown depth of Raw Sewage was just below the 8in plank. Due to the fact that the valve opening was fully submerged in Raw sewage both Firefighters had to clean out the gate first before fully closing the valve. After successfully closing the valve both

REPORT OF MERITORIOUS ACT

| Name | of | Member | Property |
|------|----|--|----------|
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DIAGRAM OF APARTMENT OR AREA FROM WHICH VICTIM WAS REMOVED

12,

