Incident Report
Harris County Fire Marshal Office
2318 Atascocita Rd
Humble, TX 77396
(281) 436-8000

16-8533

Supplement No
ORIG

Reported Date
01/16/2016

Report Type
EXPLODE

Operator
HENSLEY, DEAN

Administrative Information
Agency
HARRIS COUNTY LAW ENFORCEMENT

Offense No
16-8533

Supplement No
ORIG

Reported Date
01/16/2016

Location
12000 BAY AREA BL

ZIP Code
77507

City
Pasadena

Fire Dept
LA PORTE FIRE DEPARTMENT

Zone
S40

Assignment
H C FIRE MARSHAL INVESTIGATION UNIT

Arson Cause
NON FIRE INCIDENT

District
S3

Operator
F09033/HENSLEY, DEAN

Incident Report
Explosive or Incendiary Devices

Person Summary
Invtn No
Type
Name
MNI

01
B
PEROXY CHEM
7374589

02
B
EVERGREEN INDUSTRIAL SERVICES
7374591

03
I
GIDDENS, RICKEY
7374588

04
I
AINSWORTH, JOE
7374598

05
I
SHAW, BILL
7374600

06
G
LA PORTE FIRE DEPARTMENT
7374365

07
I
WATTS, SHAWNITA
7374595

08
I
BERTHELOT, CAROLYN
7374597

09
I
MELDER, GEORGE
7374604
Synopsis and Dept Output

The Harris County Fire Marshal's Office investigated a non-fire explosion with injuries and one fatality.
# Incident Report

## Harris County Fire Marshal Office

### Involved Business (not a Victim) 1: PEROXY CHEM

<table>
<thead>
<tr>
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<td>01/16/2016</td>
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<tbody>
<tr>
<td>Business</td>
<td><a href="http://www.peroxychem.com">www.peroxychem.com</a></td>
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### Involved Business (not a Victim) 2: EVERGREEN INDUSTRIAL SERVICES

<table>
<thead>
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<tr>
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### Complainant or victim 1: GIDDENS, RICKEY

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<tbody>
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### Owner 1: AINSWORTH, JOE

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<table>
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<tbody>
<tr>
<td>Business</td>
<td><a href="mailto:joe.ainsworth@peroxychem.com">joe.ainsworth@peroxychem.com</a></td>
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### Owner 2: SHAW, BILL

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Incident Report
Harris County Fire Marshal Office

16-8533

Supplement No
ORIG

Date
01/16/2016

Type
Business

Phone No
(281) 478-5800

Date
01/16/2016

Type
Cell

Reportee 1: LA PORTE FIRE DEPARTMENT

Involved
Inv No
Type

Name
LA PORTE FIRE DEPARTMENT

MINI
3774365

PRN
3619014

Date
01/16/2016

Reportee 1
Government

Witness 1: WATTS, SHAWNITA

Involved
Inv No
Type

Name
WATTS, SHAWNITA

MINI
3774595

Not Hispanic or Latino

PRN
3619015

Date
01/16/2016

Type
Business

Phone No
(281) 471-9244

City
La Porte

State
Texas

ZIP Code
77571

Date
01/16/2016

Type
Cell

Witness 2: BERTHELOT, CAROLYN

Involved
Inv No
Type

Name
BERTHELOT, CAROLYN

MINI
3774597

White

Female

Not Hispanic or Latino

PRN
3619016

Not Hispanic or Latino

Date
01/16/2016

Type
Business

Phone No
(713) 796-6740

City
Houston

State
Texas

ZIP Code
77030

Date
01/16/2016

Type
Email

carolyn.berthelot@ifs.hctx.net

Witness 3: MELDER, GEORGE

Involved
Inv No
Type

Name
MELDER, GEORGE

MINI
3774604

White

Male

47

Not Hispanic or Latino

No

PRN
3619017

Date
01/16/2016

Type
Business

Vehicle: BS70692

Complainant
Truck/Van

License No
BS70692

State
Texas

Lic Year
2016

Lic Type
Truck

Year
2007

Make
Kenworth Northwest, Inc.

Model
Truck/Bus/Motor Home

Color
Vacuum Cleaner

White

VIN
3WKKDU8X87F182428

Dispo
Released to owner

Dispo Date
01/16/2016

Description
Pressure Explosion from vacuum truck

Report Officer
F09033/HENSLEY, DEAN

Printed At
06/21/2016 08:53

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Incident Report
Harris County Fire Marshal Office

Vehicle: BS70692

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Modus Operandi

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<th>Gang Activ?</th>
<th>Crime (major)</th>
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<tr>
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Narrative

ASSIGNMENT:
On Saturday January 16, 2016 at 1353 hrs, I Captain D. Hensley-9542, Deputy Chief J. Bolton-954 and investigator T. Galindo-95F33 were dispatched by Cypress Creek Communications Center to a reported explosion with injuries at Peroxy Chem Facility located at 12000 Bay Area Blvd. in the unincorporated Pasadena, Texas area of Harris County.

I was advised that Harris County Haz-Mat was already on scene along with Safety officer J. Ickes-95S1, Harris County Sheriff's Office and La Porte Fire Department.

I directed investigator D. Lee-95F24 to re-route to Clear Lake Regional Hospital and check on the injured and obtain statements on what happened.

I was also advised that the (CIMA) Channel Industries Mutual Aid had been activated and was on scene.

Myself and Chief Bolton arrived at 1523 hrs. Investigator Galindo arrived at 1455 hrs.

I was advised that the incident commander was George Melder.

I was briefed by Captain Larry Perry of HC Haz-Mat and then I met with the command post units in the CIMA command truck.

I was advised that George Melder was the incident commander. I was briefed on the current situation and hazards.
Narrative
I was updated that (3) three workers were injured and transported to a hospital, and that (1) one worker was deceased at the scene near the truck where the explosion took place.

Myself, Chief Bolton and investigator Galindo put on protective clothing and air packs to conduct a survey of the situation and get information to relay to the Harris County Institute of Forensic Sciences.

As we entered the hot zone I documented the scene with digital photos.

SCENE DESCRIPTION:
The scene is a Chemical Plant called PeroxyChem.
The address is 12000 Bay Area Blvd.
Located in unincorporated Harris County, Pasadena, Texas.

The plant manufactures and supplies Hydrogen Peroxide.

STRUCTURE DESCRIPTION:
Chemical plant
Storage tanks and piping all over the facility.
See attached photos of facility.

PRODUCT AND COMPANY IDENTIFICATION
Information from MSDS Sheets provide by command and Haz-Mat:
Name: Process Work Solutions-BP
General Use: Process work solutions is used in the manufacture of hydrogen peroxide.
Appearance: Dark brown liquid (red-brown crystals from when solids evaporate), with a slight odor. Aromatic odor
(see effiles tab for attached MSDS).

Process work solutions contains combustible petroleum aromatic solvents.

FIRE DAMAGE:
I did not observe any fire damage.
I did not observe any evidence that there was a fire or any fire damage.
I observed damage that was consistent with a pressure explosion.

ORIGIN AND CAUSE OF FIRE:
The fire origin and cause investigation was conducted utilizing the appropriate use of fire pattern analysis, fire damage and the consideration of witness information and other valuable data, and the scene circumstances.

I did not observe any fire damage or burn patterns. There was no evidence at the scene of any fire. The witnesses interviewed at the hospital did report any fire.

I observed a vacuum truck that was backed up to a processing/loading area that was turned off and had damage to the back side of the truck where a large fill valve was located. The damage indicates that the valve was torn/ripped away from the truck and struck the deceased/victim in the chest/torso area.

I observed extensive trauma to the body and the valve laying against the body on the ground. The valve was still in the closed position with the cap still in place.
I also observed several valves bent that appear the be from the force of the body striking them.

I observed damage to a eye wash/decon station that also appears to have been struck by the body from the force.
I observed trauma to the backside of the body that was consistent with it striking these objects from the force/pressure of the valve pushing the body back.

I observed that the valve laying beside the body was in the closed position with the cap still in place.
I observed several links of black hose that was connected to the processing plant/connection valve at one end and the other end laying on the ground at the back of the vacuum truck.

It appears that the black hose was not connected to the truck prior to the explosion/release.
It also appears that the valve was in the closed position prior to the explosion/release.
The observation of the damage to the truck and body along with information obtained from PeroxyChem and Evergreen regarding the Chemical Hydrogen Peroxide that was inside the vacuum truck, concluded that the pressure explosion was most probable caused from a rapid expansion of the Hydrogen Peroxide in the vacuum truck failing at the point where the valve was attached to the tank on the truck. what caused the rapid expansion is unknown, and multiple possibilities could be possible.

As a result of the explosion/expansion one adult male was fatally injured.

INJURIES OR FATALITIES:
#1 Rickey Giddens - deceased
Employee of Evergreen Industrial Services.
Vacuum truck driver/operator.
#2 Danny Ray Wood - injured
#3 Ruben Rodriguez - injured
#4 Manuel Espinoza - injured

SCENE DOCUMENTATION:
I documented the scene with a series of digital photos using a Canon rebel digital camera. The photos were transferred to the FORAY photo management system at the Fire Marshal's Office. I also added a few photos to the efiles tab of this report to show some of the scene as we found it when we arrived.

I was given a copy (8) pages of a Material Safety Data Sheet from Captain Perry on the Haz-Mat Team. I added it to the efiles tab of this report.

I obtained copies of the La Porte EMS response reports and data sheets. I attached them to the efiles tab of this report. (This information is protected and not to be distributed).

La Porte EMS
S. Watts - Captain
R. Gomez - Paramedic-III
J. Talley - Paramedic-I
T. Mason - Paramedic-I
J. Carranza - Paramedic-II

Event Chronology / times
12:28:00 event call time
12:30:00 dispatched time
12:31:00 enroute time
12:36:00 at scene time
12:39:00 at patient time
13:24:00 at Clear Lake Regional Medical Center Hospital
14:22:00 back in service

Unit# 1185 (MICU) ambulance
Unit# 1182 (MICU) ambulance

Patient-Ruben Rodriguez
Dispatch# 16-0144-B
Response# 16-01-103-0104
PCR#103-15671

Patient-Dan Wood
Dispatch# 16-0144-A
Response# 16-01-103-0102
PCR# 103-15669
Incident Report
Harris County Fire Marshal Office

Narrative

Patient-Manuel Espinoza
Dispatch# 16-0143A
Response# 16-01-691-0098
PCR# 691-15665

Patient-Rickey Giddens
Dispatch# 16-0143B
Response# 16-01-615-0099
PCR# 615-15666
12:40:00-DOS time (dead on scene)

Institute of Forensic Sciences
Carolyn Berthelot
Forensic Investigator II Investigations
Unit#9010
ID# ML16-0210
Property page added to efiles tab of this report.
Arrived: 1627 hrs. Body car and Investigator

EVIDENCE:
None collected

TRUCK INFORMATION:
2007 Kenworth Vacuum Truck
License plate# Texas-BST7-0692
Registered owner: Evergreen Environmental
PO Box 2078 Deerpark, Texas 77536
UD DOT# 899688
VT-61
Height 12' 0"

INTERVIEWS:
Investigator D. Lee interviewed the injured workers that were transported to the hospital. See investigator Lee supplement report.

INSURANCE INFORMATION:
unknown at time of incident.

PEROXY CHEM:
Information from Peroxy Chem Web Site
PeroxyChem is a leading global manufacturer and supplier of hydrogen peroxide, peracetic acid, persulfates and adjacent technologies.

Who we are, what we do and how we do it At PeroxyChem, we pride ourselves on exemplary customer service, product quality, reliability and consultation. Our scientists, engineers, technical experts and account managers are constantly seeking ways to bring greater value to our customer base. Our vision is to be the leading global supplier of oxidative solutions based on hydrogen peroxide, peracetic acid and persulfates, complemented by adjacent technologies to the electronics, energy, environmental, food safety, and other industrial markets. At PeroxyChem, we are committed to conducting our business honestly and ethically and to complying with applicable laws -- this is our commitment to integrity. Our Code of Ethics and Business Conduct exemplifies our dedication to high standards and summarizes the legal and ethical principles that we follow every day.

Hydrogen Peroxide Vital chemistries for vital industries One of the most versatile and environmentally compatible oxidizing agents, hydrogen peroxide represents vital chemistries for many of the world's most vital industries. As leading manufacturers and suppliers of hydrogen peroxide, we offer a broad range of concentrations and purities in our product line up, which means our hydrogen peroxide can be used for electronics, paper production and
anything in between. The versatility of hydrogen peroxide is evidenced by the variety of oxidation potentials and pH ranges in which it can act as an oxidizer. In the acid pH range, for example, uncatalyzed hydrogen peroxide is a moderate oxidizer but when catalyzed with iron, it becomes a powerful oxidizer. In the alkaline pH range, hydrogen peroxide can compete with hypochlorite as an oxidizer. At PeroxyChem, we will continue to pioneer new uses and innovative ways to safely and cost effectively store and handle hydrogen peroxide, so you can continue to have versatile, dependable and environmentally friendly chemistries to rely on.

Under normal conditions, Hydrogen Peroxide is extremely stable with demonstrated losses of less than 1% per year under ambient conditions. Heat and oxygen are generated during peroxide decomposition and even abnormal decomposition is easily handled by properly designed storage and handling systems. However, if severe contamination occurs or the solution is heated to extremely high temperatures, relieving devices may not be able to dissipate the volume of gas generated and the system may be overpressured. Hydrogen Peroxide is not considered explosive, but explosive vapors can be formed when peroxide is mixed with certain organic materials. In addition, Hydrogen Peroxide is not flammable, but does generate large amounts of oxygen during decomposition that supports combustion.

SUMMARY:
The observation of the damage to the truck and body along with information obtained from PeroxyChem and Evergreen regarding the Chemical Hydrogen Peroxide that was inside the vacuum truck, concluded that the pressure explosion was caused from a rapid expansion of the Hydrogen Peroxide in the vacuum truck failing at the point where the valve was attached to the tank on the truck.

The cause for the rapid expansion is unknown, but information obtained from PeroxyChem and Evergreen indicates that possible pressure relief failures occurred or the pressure relief could not keep up with the rapid expansion that could be caused from multiple of possibilities that would react to the peroxide in the tank of the truck.

The body was released to the Harris County Institute of Forensic Sciences.

end report
**Incident Report**
Harris County Fire Marshal Office

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Description

16-8533 Wide angle view of area
16-8533 Photo of vacuum truck
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Description: 16-8533 side view of vacuum truck
Incident Report
Harris County Fire Marshal Office

Images

Date  Time  Operator  Type
01/21/2016  08:19  F09033  PHOT

Description
16-8533 Backside/driver of vacuum truck

Report Officer: F09033/HENSLEY, DEAN
Printed At: 06/21/2016 08:53
Page 13 of 22
16-8533 backside view of vacuum truck
16-8533 Area where valve was blown from truck
16-8533 Backside of vacuum truck
<table>
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**Description**

16-8533 backside of vacuum truck
16-8533 Area where valve was blown from truck
**Incident Report**

**Harris County Fire Marshal Office**

<table>
<thead>
<tr>
<th>Images</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Date</strong></td>
</tr>
<tr>
<td>01/21/2016</td>
</tr>
</tbody>
</table>

**Description**

16-8533 Texas ID in cab of vacuum truck
Images

Date: 01/21/2016
Time: 08:25
Operator: F09033
Type: PHOT

Description:
16-8533 Hose on ground at back of truck
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Operator</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/21/2016</td>
<td>08:27</td>
<td>F09033</td>
<td>PHOT</td>
</tr>
</tbody>
</table>

**Description**

16-8533 Hose connected to valve