

Cooley, James

From: Hoffman, Kathy <KHoffman@sterigenics.com>
Sent: Friday, August 30, 2019 6:16 PM
To: Cooley, James
Subject: Sterigenics Atlanta Facility - Requested Reports
Attachments: REDACTED - 180402 Release_Redacted.pdf; REDACTED - 180710 Injury Release_Redacted.pdf; REDACTED - 180717 LEL Evac_Redacted.pdf; REDACTED - 190410 GC Evac_Redacted.pdf; REDACTED - 190731 Area Evac_Redacted.pdf; REDACTED - 150203 Area Evac_Redacted.pdf; REDACTED - 151111 Area Evac_Redacted.pdf; REDACTED - 151117 Area Evac_Redacted.pdf; REDACTED - 170131 Area Evac_Redacted.pdf; REDACTED - 170611 Area Evac_Redacted.pdf

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Jim:

As requested, attached are the redacted incident investigations for the EO Release Incidents from the past 5 years.

Sincerely,
Kathy

Kathleen Hoffman

Senior Vice President - Global Environmental, Health & Safety and Technical Services
Sterigenics, A Sotera Health Company
2015 Spring Road, Suite 650
Oak Brook, IL 60523
Office: 630.928.1758
khoffman@sterigenics.com



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CONFIDENTIAL

EHS Management MSDS/Chemical Management

Home Add New Monitor Admin

Incident (CLOSED)

[Reopen Incident](#)

IN-20180402-002

Leak/Spill/Release,
LEL/GC/Evacuation

First Report

Investigation

Corrective Actions

Attachments

Email Notifications

Audit Trail

Description

TITLE

Area evacuation (SRI port # 6 read 240.3 ppm).

DESCRIPTION

On 02-April-2018 @ 9:05am est, SRI port #6 detected rogue levels in the area reading 240ppm. Maintenance / Operations donned the proper PPE and handhelds and began surveying the area and found levels near the exhaust pipe for the booster pump for chamber 10. The chamber was then stopped. Maintenance went to investigate and when the piping was touched, it detached. Maintenance completed the repair before the chamber was allowed to complete the after vacuum phase. Initial review by EHS

What

- | | | | |
|----------------------|------------------------|------------------------|--------------------------------|
| Injury | Explosion | Emission Control Upset | Non Work-Related Injury |
| Occupational Illness | Motor Vehicle Accident | Radiation Safety Event | Powered Industrial Truck |
| Leak/Spill/Release | Property Damage | Radiation Exposure | EO/Chemical/Hazardous Exposure |
| Fire | Security | LEL/GC/Evacuation | |

LEL/GC/Evacuation Additional Information

METER READING

240.30 ppm

AREA EVACUATED

Area

Where

LOCATION OF INCIDENT

Atlanta
Sterigenics / EO U.S/Canada

TECHNOLOGY

EO

OCCURRED ON COMPANY PREMISES?

Yes No

SPECIFIC LOCATION OF OCCURRENCE

Chamber Area

When

DATE OF OCCURRENCE

2018-04-02

TIME OF OCCURRENCE

9:05 AM

CONFIDENTIAL

EHS Management

MSDS/Chemical Management

Who

PERSON INVOLVED New Monitor Admin

[Redacted]

Incident (CLOSED)

Reopen Incident

IN-20180402-002

Leak/Spill/Release,
LEL/GC/Evacuation

RELATIONSHIP OF PERSON INVOLVED

Employee

SUPERVISOR OF PERSON INVOLVED

[Redacted]

First Report

DATE SHIFT BEGAN

Investigation

2018-04-02

Corrective Actions

TIME SHIFT BEGAN

Attachments

7:00 AM

Email Notifications

Audit Trail

Witnesses

WITNESS

[Redacted]

RELATIONSHIP OF WITNESS

Employee

Internal Reporting

REPORTED BY

[Redacted]

DATE REPORTED

2018-04-02

Follow Up Responsibilities

RESPONSIBLE FOR INCIDENT INVESTIGATION

[Redacted]

CONFIDENTIAL

First Report

IN-20180710-001

Description

Title Chamber Deflagration
Description Employee was loading the first pallet into chamber 7 and upon backing out of chamber, there was a chamber deflagration

What

Injury
Explosion

Where

Location of Incident	Sterigenics / EO U.S./Canada / Atlanta	Technology	EO
Occurred on Company Premises?	Yes	Specific Location of Occurrence	Chamber 7 located in chamber room

When

Date of Occurrence	2018-07-10	Time of Occurrence	3:11 AM
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Who

Person Involved	■■■■	Relationship of Person Involved	Employee
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Supervisor of Person Involved

Date Shift Began	2018-07-10	Time Shift Began	7:00 PM
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Witnesses

Witness	■■■■	Relationship of Witness	Employee
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Internal Reporting

Reported By Daryl Mosby
Date Reported 2018-07-16

Follow Up Responsibilities

Responsible For Incident Investigation Daryl Mosby

Investigation

Investigation Team

CONFIDENTIAL

Team



 Daryl Mosby









Event Details

Task or Activity at Time of Incident Employee was backing out of the chamber after placinf the first pallet into chamber 7

Object/Substance That Directly Injured or Made Person Ill EO ignition

Physical or Immediate Causes of Incident EO leak in chamber and an ignition source

Immediate Action Taken Call fire department and 911

External Reporting Injury/Illness

Recordable Injury/Illness? Yes

Agency OSHA **Specific Agency and Contact** OSHA; NRC: Georgia EPD; and Cobb County Emergency Response

Date Reported 2018-07-10 **External Report Number** 1217951

Privacy Case

False

Privacy Case Explanation

Treatment Provided

First Aid
Medical Treatment

First Aid Responder   **Description of Treatment Provided** n/a

Medical Treatment

Was injured person treated in an emergency room? Yes **Was injured person hospitalized overnight?** Yes

Name of Physician or Health Care Professional n/a **Healthcare Facility Name and Address** Grady Hospital
80 Jesse Hill Jr Drive
Atlanta, Ga. 30303

Lost Days

True **Estimated Lost Days** 180

First Lost Day 2018-07-10 **Date Returned** 2019-12-31
Lost Days 180

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Fatality

False

Incident Details

Injury/Illness Type Thermal Burn

Body Part Back **Side of Body**

Body Part Chest/Ribs **Side of Body**

Body Part Leg **Side of Body**

Accident Type Exposed to fire/explosion
Other

Accident Agent Chemical

Personal Information

Gender [Redacted] **Date of Birth** [Redacted]
Home Address [Redacted] **Home Phone** [Redacted]

Employment Information

Job Title Certified Operator

Safe Work Practices

Was PPE Worn? Yes
PPE Worn Safety Glasses
Steel Toed Boots

Describe PPE Worn

Alcohol Test Performed? No

Drug Test Performed? No

Safe Work Practices

External Reporting Fire/Explosion

Reportable Fire/Explosion Yes
Agency Emergency Response **Specific Agency and Contact** NRC
Date Reported 2018-07-10 **External Report Number** 1217951

Fire Information

Ignition Source Mechanical Spark **Extinguish Method** Portable Fire Extinguisher
Time to Extinguish Fire 1 Minutes

Weather Conditions

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Weather Conditions Clear

Wind Speed

Wind Direction

Insurance Reporting

Insurance Group Notified Yes

Claims Handler Contact Information Sentry

Date Reported 2018-07-10

Insurance Claim Number

Root Cause Analysis

Root Cause Fire or Explosion Hazard
Hazardous Substances
Defective Tools/Equipment

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Add 3rd EO Valve to Chamber

Corrective Action Plan Description Add 3rd EO Valve to chamber to add redundancy.

Person Responsible [Redacted]

Due Date 2018-12-28 **Priority** High

Targeted Root Cause Defective Tools/Equipment (Equipment)

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
[Redacted] (EHS Director); [Redacted] (EHS Director)	Category: Incident; Incident Type: Injury; Occupational Illness; Reportability/Recordability: Reportable/Recordable	Incident reported	2018-07-16 11:53 AM
[Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (Executive)	Category: Incident; Incident Type: Injury; Occupational Illness; Reportability/Recordability: Reportable/Recordable	Incident reported	2018-07-16 11:53 AM

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Recipients	Parameters	Trigger	Days Sent
██████████ (EHS Director); ██████████ (EHS Director)	Category: Incident	Incident reported	2018-07-16 11:38 AM
██████████ (EHS Director); ██████████ (EHS Director); ██████████ (EHS Director); ██████████ (Executive)	Category: Incident	Incident reported	2018-07-16 11:38 AM
Daryl Mosby (Responsible for Incident Investigation)		Incident reported	2018-07-16 11:38 AM

Audit Trail

Status Log

2019-08-29 12:39 ██████████ ██████████ Changed Status FROM [Investigation] TO [Review]
 2018-07-16 11:29 Daryl Mosby Changed Status FROM [Draft] TO [Investigation]
 2018-07-16 11:29 Daryl Mosby Created with Status: Draft

Edit Log

2019-08-29 12:39 ██████████ ██████████ Saved
 2019-08-20 16:18 Daryl Mosby Saved
 2019-08-20 15:59 Daryl Mosby Saved
 2019-08-20 15:59 Daryl Mosby Created Action: Add 3rd EO Valve to Chamber
 2019-01-10 17:42 ██████████ ██████████ Saved
 2019-01-10 17:38 ██████████ ██████████ Saved
 2019-01-08 16:42 ██████████ ██████████ Saved
 2019-01-07 13:42 Daryl Mosby Saved
 2019-01-07 13:36 Daryl Mosby Saved
 2019-01-07 13:36 Daryl Mosby Saved
 2019-01-07 13:35 Daryl Mosby Saved
 2018-12-20 07:32 Daryl Mosby Saved
 2018-07-16 11:46 Daryl Mosby Changed Injury Classification FROM [None] TO [Lost Work]
 2018-07-16 11:46 Daryl Mosby Saved
 2018-07-16 11:46 Daryl Mosby Changed Responsible for Incident Closure TO [Daryl Mosby]
 2018-07-16 11:46 Daryl Mosby Changed Responsible for Incident Review TO [Daryl Mosby]
 2018-07-16 11:46 Daryl Mosby Changed Explosion Reportable FROM [Undetermined] TO [Yes]
 2018-07-16 11:46 Daryl Mosby Changed Injury Recordable FROM [Undetermined] TO [Yes]
 2018-07-16 11:46 Daryl Mosby Were there any unusual events contributing to exposure changed FROM [Undetermined] TO [Yes]
 2018-07-16 11:46 Daryl Mosby Unusual events contributing to the EO exposure changed FROM [Undetermined] TO [Yes]

CONFIDENTIAL

First Report

IN-20180717-001

Description

Title Area Evacuation

Description LEL 33 read 11% at 22:58 GMT and read as high as 16%. This LEL is located near chamber 3 vacuum pump. Operations donned the proper PPE and went to the vacuum pump and determined where the leak was occurring using a PID and reconnected the fitting.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading	16 %LEL	Area Evacuated	Area
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Where

Location of Incident	Sterigenics / EO U.S/Canada / Atlanta	Technology	EO
Occurred on Company Premises?	Yes	Specific Location of Occurrence	CHAMBER AREA

When

Date of Occurrence	2018-07-17	Time of Occurrence	6:58 PM
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Who

Person Involved	██████	Relationship of Person Involved	Employee
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Supervisor of Person Involved	Daryl Mosby		
Date Shift Began	2018-07-17	Time Shift Began	7:00 AM

Witnesses

Witness	██████	Relationship of Witness	Employee
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Internal Reporting

Reported By	Daryl Mosby
Date Reported	2018-07-17

Follow Up Responsibilities

Responsible For Incident Investigation	Daryl Mosby
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Investigation

Investigation Team

Team



Event Details

Task or Activity at Time of Incident chamber was in after vacuum phase

Physical or Immediate Causes of Incident loose fitting on vacuum pump secondary polisher

Immediate Action Taken reconnect fitting on secondary polisher

Safe Work Practices

Insurance Reporting

Insurance Group Notified Undetermined

Root Cause Analysis

Root Cause Inadequate Equipment

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Reconnect fitting

Corrective Action Plan Description Convert quick connects on secondary polisher to compression fitting

Person Responsible

Due Date 2018-08-27 **Priority** High

Targeted Root Cause Inadequate Equipment (Equipment)

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Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Closure)		Incident is ready for closure	2018-07-26 03:55 PM
[REDACTED]	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported	2018-07-17 09:37 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director)	Category: Incident	Incident reported	2018-07-17 09:37 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (Executive)	Category: Incident	Incident reported	2018-07-17 09:37 PM
[REDACTED]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2018-07-17 09:37 PM
Daryl Mosby (Responsible for Incident Investigation)		Incident reported	2018-07-17 09:37 PM
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2018-07-17 09:37 PM

Audit Trail

Status Log

2018-07-26 16:35 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2018-07-17 21:32 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
 2018-07-17 21:31 Daryl Mosby Changed Status FROM [Investigation] TO [Review]
 2018-07-17 21:24 Daryl Mosby Changed Status FROM [Draft] TO [Investigation]
 2018-07-17 21:24 Daryl Mosby Created with Status: Draft

Edit Log

2018-07-26 16:35 Daryl Mosby Saved
 2018-07-17 21:32 Daryl Mosby Saved
 2018-07-17 21:31 Daryl Mosby Saved
 2018-07-17 21:31 Daryl Mosby Created Action: Reconnect fitting
 2018-07-17 21:31 Daryl Mosby Changed Responsible for Incident Closure TO [Daryl Mosby]
 2018-07-17 21:31 Daryl Mosby Changed Responsible for Incident Review TO [Daryl Mosby]
 2018-07-17 21:31 Daryl Mosby Were there any unusual events contributing to exposure changed FROM [Undetermined] TO [Yes]
 2018-07-17 21:31 Daryl Mosby Unusual events contributing to the EO exposure changed FROM [Undetermined] TO [Yes]

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First Report

IN-20190410-001

Description

Title Area Evacuation

Description During a drum change on CH #7, when disconnecting the EO Whipline after the nitrogen purge there was a brief spray of EtO liquid. Shortly after that, an Area Evacuation Alarm occurred. The SRI Port near the drum (CH #6 Area / Port #5) detected 77.5ppm @ 2:16am this morning.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading	77.5 ppm	Area Evacuated	Area
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Where

Location of Incident	Sterigenics / EO U.S/Canada / Atlanta	Technology	EO
Occurred on Company Premises?	Yes	Specific Location of Occurrence	Chamber # 6 / SRI port # 5

When

Date of Occurrence	2019-04-10	Time of Occurrence	2:16 AM
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Who

Person Involved	██████	Relationship of Person Involved	Employee
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Supervisor of Person Involved	██████
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Date Shift Began	2019-04-09	Time Shift Began	7:00 PM
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Witnesses

Witness		Relationship of Witness	Employee
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Internal Reporting

Reported By	██████
Date Reported	2019-04-10

Follow Up Responsibilities

Responsible For Incident Investigation	██████
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Investigation

Investigation Team

Team



Event Details

Task or Activity at Time of Incident Tank change on chamber # 7.

Physical or Immediate Causes of Incident NA

Immediate Action Taken Investigated the source with handheld and PID and found no traces of levels.

Safe Work Practices

Insurance Reporting

Insurance Group Notified No

Root Cause Analysis

Root Cause Unnecessary Haste

Costs

Cost Type	Other	Amount	0 USD
Description	N/A		

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Drum change

Corrective Action Plan Description Remind all operators the need to use the timing device when purging the lines during a drum change.

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Person Responsible [Redacted]
Due Date 2019-05-24 **Priority** High
Targeted Root Cause Unnecessary Haste (Employee Actions)

Attachments

Files



Name Copy of SRI Port 5_CH 6 Area 04102019.xlsx
Description

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Closure)		Incident is ready for closure	2019-05-23 06:44 PM
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2019-05-21 04:15 PM
[Redacted]	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported	2019-04-10 05:16 PM
[Redacted] (EHS Director)	Category: Incident	Incident reported	2019-04-10 05:16 PM
[Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (Executive)	Category: Incident	Incident reported	2019-04-10 05:16 PM
[Redacted]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2019-04-10 05:16 PM
[Redacted] (Responsible for Incident Investigation)		Incident reported	2019-04-10 05:16 PM

Audit Trail

Status Log

2019-05-29 12:05 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2019-05-21 16:21 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
 2019-05-21 16:06 [Redacted] Changed Status FROM [Investigation] TO [Review]
 2019-04-10 16:59 [Redacted] Changed Status FROM [Draft] TO [Investigation]
 2019-04-10 16:59 [Redacted] Created with Status: Draft

Edit Log

2019-05-29 12:05 Daryl Mosby Saved
 2019-05-21 16:21 Daryl Mosby Saved
 2019-05-21 16:06 [Redacted] Saved
 2019-05-21 16:06 [Redacted] Created Action: Drum change

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2019-04-11 15:32	[REDACTED]	[REDACTED]	Saved
2019-04-11 15:32	[REDACTED]	[REDACTED]	Changed Responsible for Incident Closure TO [Daryl Mosby]
2019-04-11 15:32	[REDACTED]	[REDACTED]	Changed Responsible for Incident Review TO [Daryl Mosby]
2019-04-11 15:32	[REDACTED]	[REDACTED]	Were there any unusual events contributing to exposure changed FROM
[Undetermined] TO	[REDACTED]	[REDACTED]	[Yes]
2019-04-11 15:32	[REDACTED]	[REDACTED]	Unusual events contributing to the EO exposure changed FROM
[Undetermined] TO	[REDACTED]	[REDACTED]	[Yes]
2019-04-10 16:59	[REDACTED]	[REDACTED]	New Attachment Added [Copy of SRI Port 5_CH 6 Area 04102019.xlsx]

CONFIDENTIAL

First Report

IN-20190731-001

Description

Title Area Evacuation
Description A operator performed a drum change and did not close the EO valve completely on the empty drum. Due to the temperature in the chamber room it eventually caused the EO valve to leak and generated the area evacuation alarm on two SRI ports. We calculated we lost 5.6 lbs. during this time.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading 314 ppm **Area Evacuated** Area

Where

Location of Incident Sterigenics / EO U.S/Canada / Atlanta **Technology** EO
Occurred on Company Premises? Yes **Specific Location of Occurrence** Chamber Room

When

Date of Occurrence 2019-07-31 **Time of Occurrence** 7:15 AM

Who

Person Involved [REDACTED] **Relationship of Person Involved** Employee

Supervisor of Person Involved [REDACTED]

Date Shift Began 2019-07-30 **Time Shift Began** 7:00 PM

Witnesses

Witness [REDACTED] **Relationship of Witness** Employee

Internal Reporting

Reported By [REDACTED]
Date Reported 2019-07-31

Follow Up Responsibilities

Responsible For Incident Investigation [REDACTED]

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Investigation

Investigation Team

Team

[Redacted]
[Redacted]
Daryl Mosby
[Redacted]
[Redacted]

Event Details

Task or Activity at Time of Incident Drum change

Physical or Immediate Causes of Incident Upon investigation it was found that the drum plugs were not installed along with the valve not fully closed after drum change.

Immediate Action Taken Closed the valve and installed drum plugs. An email was sent out to all operators making them aware of the incident and reminding the proper order of steps during a drum change. The operator involve was counseled on the error.

Safe Work Practices

Insurance Reporting

Insurance Group Notified Undetermined

Root Cause Analysis

Root Cause Unsafe Acts
Improper Work Technique

Costs

Cost Type	Other	Amount	0 USD
Description	NA		

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Operator Counseled

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Corrective Action Plan Description The operator involved was counseled.

Person Responsible [Redacted] [Redacted]

Due Date 2019-08-21 **Priority** Medium

Targeted Root Cause Improper Work Technique (Process)
Unsafe Acts (Employee Actions)

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2019-08-21 11:35 AM
[Redacted]	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported	2019-07-31 05:03 PM
[Redacted] (EHS Director)	Category: Incident	Incident reported	2019-07-31 05:03 PM
[Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (Executive)	Category: Incident	Incident reported	2019-07-31 05:03 PM
[Redacted]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2019-07-31 05:03 PM
[Redacted] (Responsible for Incident Investigation)		Incident reported	2019-07-31 05:03 PM

Audit Trail

Status Log

2019-08-21 11:44 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]

2019-08-21 11:43 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]

2019-08-21 11:28 [Redacted] Changed Status FROM [Investigation] TO [Review]

2019-07-31 16:47 [Redacted] Changed Status FROM [Draft] TO [Investigation]

2019-07-31 16:47 [Redacted] Created with Status: Draft

Edit Log

2019-08-21 11:44 Daryl Mosby Saved

2019-08-21 11:43 Daryl Mosby Saved

2019-08-21 11:28 [Redacted] Saved

2019-08-21 11:28 [Redacted] Created Action: Operator Counseled

2019-08-21 11:28 [Redacted] Changed Responsible for Incident Closure TO [Daryl Mosby]

2019-08-21 11:28 [Redacted] Changed Responsible for Incident Review TO [Daryl Mosby]

2019-08-21 11:28 [Redacted] Were there any unusual events contributing to exposure changed FROM [Undetermined] TO [Yes]

2019-08-21 11:28 [Redacted] Unusual events contributing to the EO exposure changed FROM [Undetermined] TO [Yes]

CONFIDENTIAL

First Report

IN-20150203-001

Description

Title Area evacuation (LEL 25 - Chamber 6 Vacuum pump read 10 % for 1 minute).
Description At 1:56 GMT LEL sensor 25 read 10% for approximately 1 minute. Operators on duty donned proper PPE, and determined it was coming from the feed line to chamber 6 vaporizer.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading 10 %LEL **Area Evacuated** Area

Where

Location of Incident Sterigenics / EO U.S/Canada / Atlanta **Technology** EO
Occurred on Company Premises? Yes **Specific Location of Occurrence** Chamber Area

When

Date of Occurrence 2015-02-03 **Time of Occurrence** 1:00 AM

Who

Person Involved [REDACTED] **Relationship of Person Involved** Employee

Supervisor of Person Involved [REDACTED]

Date Shift Began 2015-02-02 **Time Shift Began** 7:00 PM

Witnesses

Witness [REDACTED] **Relationship of Witness** Employee

Internal Reporting

Reported By [REDACTED]
Date Reported 2015-02-03

Follow Up Responsibilities

Responsible For Incident Investigation [REDACTED]

CONFIDENTIAL**Investigation**

*Investigation Team***Team***Event Details***Task or Activity at Time of Incident** Routine processing**Physical or Immediate Causes of Incident** Fittings were found to be loose on flange to the vaporizer.**Immediate Action Taken** Turned off gas valve from chamber 6 gas drum as a precaution.*Safe Work Practices**Insurance Reporting***Insurance Group Notified** No*Root Cause Analysis***Root Cause** Defective Tools/Equipment*Costs*

Cost Type	Amount
Production Loss	0 USD
Description	Maintenance had to inspect chamber at the end of the cycle.

*Follow Up Responsibilities***Responsible For Incident Investigation Review** Daryl Mosby*Follow Up Responsibilities***Responsible For Incident Closure** Daryl Mosby**Corrective Actions**

*Corrective Actions***Corrective Action Plan Title** Review of chamber.**Corrective Action Plan Description** At the end of the routine cycle , a purge cycle was completed. Maintenance inspected the chamber and determined the fittings on the flange to the vaporizer needed to be replaced.

CONFIDENTIAL

Person Responsible [REDACTED]
Due Date 2015-02-03 **Priority** High
Targeted Root Cause Defective Tools/Equipment (Equipment)

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
[REDACTED] (Responsible for Incident Investigation)		Incident reported	2015-02-03 12:08 PM
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2015-02-03 12:08 PM
[REDACTED] (EHS Director)	Category: Incident	Incident reported	2015-02-03 12:08 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (Executive)	Category: Incident	Incident reported	2015-02-03 12:08 PM

Audit Trail

Status Log

2015-02-03 12:16 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2015-02-03 12:11 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
 2015-02-03 12:08 [REDACTED] Changed Status FROM [Investigation] TO [Review]
 2015-02-03 11:53 [REDACTED] Changed Status FROM [Draft] TO [Investigation]
 2015-02-03 11:53 [REDACTED] Created with Status: Draft

Edit Log

2015-02-03 12:16 Daryl Mosby Saved
 2015-02-03 12:11 Daryl Mosby Saved
 2015-02-03 12:08 [REDACTED] Saved
 2015-02-03 12:08 [REDACTED] Created Action: Review of chamber.
 2015-02-03 12:08 [REDACTED] Changed Responsible for Incident Closure TO [Daryl Mosby]
 2015-02-03 12:08 [REDACTED] Changed Responsible for incident review TO [Daryl Mosby]

CONFIDENTIAL

First Report

IN-20151111-001

Description

Title Area Evacuation
Description LEL #33 had a reading of 12%. This LEL is located in the retort room. The operator evacuated the affected area and contacted their Manager. The operators donned their appropriate PPE, SCBA and PID and went to the affected area. The cause of the alarm was a leaking site glass from the vacuum pump for chamber 4. This is located in close proximity to LEL #33. The leak was secured and an all clear signal was deemed.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading 12 %LEL **Area Evacuated** Area

Where

Location of Incident Sterigenics / EO U.S/Canada / Atlanta **Technology** EO
Occurred on Company Premises? Yes **Specific Location of Occurrence** Retort Room

When

Date of Occurrence 2015-11-11 **Time of Occurrence** 2:00 AM

Who

Person Involved [REDACTED] **Relationship of Person Involved** Employee

Supervisor of Person Involved [REDACTED]

Date Shift Began 2015-11-10 **Time Shift Began** 7:00 PM

Witnesses

Witness [REDACTED] **Relationship of Witness** Employee

Internal Reporting

Reported By Daryl Mosby
Date Reported 2015-11-11

Follow Up Responsibilities

CONFIDENTIAL

Responsible For Incident Investigation Daryl Mosby

Investigation

Investigation Team

Team

Event Details

Task or Activity at Time of Incident

Physical or Immediate Causes of Incident Leaking sight glass on chamber 4

Immediate Action Taken Repaired sight glass

Safe Work Practices

Insurance Reporting

Insurance Group Notified Undetermined

Root Cause Analysis

Root Cause Defective Tools/Equipment

Costs

Cost Type	Description	Amount
Other		0 USD

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Sight glass on affected vacuum pump

Corrective Action Plan Description Repair sight glass on chamber 4 vacuum pump

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Person Responsible [Redacted]
Due Date 2015-11-11 **Priority** High
Targeted Root Cause Defective Tools/Equipment (Equipment)

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
[Redacted] (EHS Director)	Category: Incident	Incident reported	2015-11-11 12:54 PM
[Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (Executive)	Category: Incident	Incident reported	2015-11-11 12:54 PM
[Redacted]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2015-11-11 12:54 PM
Daryl Mosby (Responsible for Incident Investigation)		Incident reported	2015-11-11 12:54 PM
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2015-11-11 12:54 PM

Audit Trail

Status Log

2015-11-11 12:55 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2015-11-11 12:52 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
 2015-11-11 12:52 Daryl Mosby Changed Status FROM [Investigation] TO [Review]
 2015-11-11 12:48 Daryl Mosby Changed Status FROM [Draft] TO [Investigation]
 2015-11-11 12:44 Daryl Mosby Created with Status: Draft

Edit Log

2015-11-11 12:55 Daryl Mosby Saved
 2015-11-11 12:53 Daryl Mosby Saved
 2015-11-11 12:52 Daryl Mosby Saved
 2015-11-11 12:52 Daryl Mosby Saved
 2015-11-11 12:52 Daryl Mosby Created Action: Sight glass on affected vacuum pump
 2015-11-11 12:52 Daryl Mosby Changed Responsible for Incident Closure TO [Daryl Mosby]
 2015-11-11 12:52 Daryl Mosby Changed Responsible for Incident Review TO [Daryl Mosby]

CONFIDENTIAL

First Report

IN-20151117-002

Description

Title Area evacuation (SRI Channel 4-Retort room)
Description At approximately 2:25 pm est., an area evacuation alarm sounded. The operator in the control room viewed the panel view and noticed channel 4(retort room) on the SRI system read 57.1 ppm. No one was in the area at this time. Operations notified their manager and maintenance. Operators Donned the appropriate PPE & PID and check the retort room for levels. No levels were detected. Within 2 minutes the stack light for this area went to green.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading	57.1 ppm	Area Evacuated	Area
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Where

Location of Incident	Sterigenics / EO U.S/Canada / Atlanta	Technology	EO
Occurred on Company Premises?	Yes	Specific Location of Occurrence	Retort Room

When

Date of Occurrence	2015-11-17	Time of Occurrence	2:00 PM
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Who

Person Involved	██████	Relationship of Person Involved	Employee
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Supervisor of Person Involved	██████
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Date Shift Began	2015-11-17	Time Shift Began	7:00 AM
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Witnesses

Witness	██████	Relationship of Witness	Employee
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Internal Reporting

Reported By	██████
Date Reported	2015-11-17

Follow Up Responsibilities

CONFIDENTIAL

Responsible For Incident Investigation [REDACTED]

Investigation

Investigation Team

Team

Event Details

Task or Activity at Time of Incident Chamber 4 was in the after vacuum phase.

Physical or Immediate Causes of Incident Unknown

Immediate Action Taken Operators did not detect any levels in the area. Port was monitored during the next vacuum phases and no levels were detected.

Safe Work Practices

Insurance Reporting

Insurance Group Notified No

Root Cause Analysis

Root Cause Incident/Accident Analysis Inconsistent

Costs

Cost Type	Other	Amount	0 USD
Description	NA		

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Determine reason for reading.

Corrective Action Plan Description Maintenance will continue to investigate the potential reason for the reading.

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Person Responsible Daryl Mosby
Due Date 2015-11-18 **Priority** High
Targeted Root Cause

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2015-12-04 08:08 AM
[REDACTED] (EHS Director)	Category: Incident	Incident reported	2015-11-17 04:09 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (Executive)	Category: Incident	Incident reported	2015-11-17 04:09 PM
[REDACTED]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2015-11-17 04:09 PM
[REDACTED] (Responsible for Incident Investigation)		Incident reported	2015-11-17 04:09 PM

Audit Trail

Status Log

2015-12-04 08:14 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2015-12-04 08:14 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
 2015-12-04 08:05 [REDACTED] Changed Status FROM [Investigation] TO [Review]
 2015-11-17 16:00 [REDACTED] Changed Status FROM [Draft] TO [Investigation]
 2015-11-17 16:00 [REDACTED] Created with Status: Draft

Edit Log

2015-12-04 08:14 Daryl Mosby Saved
 2015-12-04 08:14 Daryl Mosby Saved
 2015-12-04 08:05 [REDACTED] Saved
 2015-11-17 16:26 [REDACTED] Saved
 2015-11-17 16:25 [REDACTED] Saved
 2015-11-17 16:23 [REDACTED] Saved
 2015-11-17 16:23 [REDACTED] Created Action: Determine reason for reading.
 2015-11-17 16:23 [REDACTED] Changed Responsible for Incident Closure TO [Daryl Mosby]
 2015-11-17 16:23 [REDACTED] Changed Responsible for Incident Review TO [Daryl Mosby]

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First Report

IN-20170131-001

Description

Title Area evacuation (SRI Channel 4-Retort room)

Description At approximately 12:02 est., an area evacuation alarm sounded. The operator in the control room viewed the panel view and noticed channel 4(retort room) on the SRI system read 69.9 ppm. No one was in the area at this time. The shift supervisor then notified the operations manager and maintenance supervisor. Operators donned the appropriate PPE & PID and check the retort room for levels. After several samples from the PID , the levels were found to be around 0.5 ppm. Investigation is ongoing.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading	69.9 ppm	Area Evacuated	Area
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Where

Location of Incident	Sterigenics / EO U.S/Canada / Atlanta	Technology	EO
Occurred on Company Premises?	Yes	Specific Location of Occurrence	Retort Room

When

Date of Occurrence	2017-01-31	Time of Occurrence	12:00 AM
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Who

Person Involved	■■■■	Relationship of Person Involved	Employee
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Supervisor of Person Involved	■■■■
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Date Shift Began	2017-01-31	Time Shift Began	7:00 PM
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Witnesses

Witness	■■■■■■■■■■	Relationship of Witness	Employee
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Witness	■■■■■■■■■■	Relationship of Witness	Employee
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Internal Reporting

CONFIDENTIAL

Reported By [Redacted]
Date Reported 2017-01-31

Follow Up Responsibilities

Responsible For Incident Investigation [Redacted]

Investigation

Investigation Team

Team Daryl Mosby
[Redacted]

Event Details

Task or Activity at Time of Incident Routine processing

Physical or Immediate Causes of Incident Oil fill port for chamber 3 vacuum pump not seating properly.

Immediate Action Taken The vacuum pump oil fill port was replaced and tested for leaks.

Safe Work Practices

Insurance Reporting

Insurance Group Notified No

Root Cause Analysis

Root Cause Defective Tools/Equipment

Costs

Cost Type	Description	Amount
Other	Replacement cost.	100 USD

Follow Up Responsibilities

Responsible For Incident Investigation Review Daryl Mosby

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

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Corrective Actions

Corrective Actions

Corrective Action Plan Title: Replace oil fill port on chamber 3.
Corrective Action Plan Description: Replace with like for like parts.
Person Responsible: [Redacted]
Due Date: 2017-01-31
Priority: High
Targeted Root Cause: Defective Tools/Equipment (Equipment)

Email Notifications

Notifications Log

Table with columns: Recipients, Parameters, Trigger, Days Sent. Contains multiple rows of notification details.

Audit Trail

Status Log

2017-02-01 11:23 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
2017-01-31 17:36 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]
2017-01-31 17:25 [Redacted] Changed Status FROM [Investigation] TO [Review]
2017-01-31 15:50 [Redacted] Changed Status FROM [Draft] TO [Investigation]
2017-01-31 15:50 [Redacted] Created with Status: Draft

Edit Log

2017-02-01 11:23 Daryl Mosby Saved
2017-01-31 17:36 Daryl Mosby Saved
2017-01-31 17:25 [Redacted] Saved
2017-01-31 17:25 [Redacted] Created Action: Replace oil fill port on chamber 3.
2017-01-31 17:25 [Redacted] Changed Responsible for Incident Closure TO [Daryl Mosby]
2017-01-31 17:25 [Redacted] Changed Responsible for Incident Review TO [Daryl Mosby]

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2017-01-31 17:25 [Redacted] [Redacted] Were there any unusual events contributing to exposure changed FROM
[Undetermined] TO [Yes]
2017-01-31 17:25 [Redacted] [Redacted] Unusual events contributing to the EO exposure changed FROM
[Undetermined] TO [Yes]

CONFIDENTIAL

First Report

IN-20170611-001

Description

Title Drum Leak
Description LEL #34 had a reading of 13%. This LEL is located on the west wall of the chamber room. The operators evacuated the affected area and contacted their Manager. The operators then donned their appropriate PPE(SCBA and LEL) and went to the affected area.

What

LEL/GC/Evacuation

LEL/GC/Evacuation Additional Information

Meter Reading 13 %LEL **Area Evacuated** Area

Where

Location of Incident Sterigenics / EO U.S/Canada / Atlanta **Technology** EO
Occurred on Company Premises? Yes **Specific Location of Occurrence** West Wall

When

Date of Occurrence 2017-06-11 **Time of Occurrence** 7:00 PM

Who

Person Involved [REDACTED] **Relationship of Person Involved** Employee

Supervisor of Person Involved [REDACTED]

Date Shift Began 2017-06-11 **Time Shift Began** 7:00 AM

Witnesses

Witness [REDACTED] **Relationship of Witness** Employee

Internal Reporting

Reported By [REDACTED]
Date Reported 2017-06-13

Follow Up Responsibilities

Responsible For Incident Investigation [REDACTED]

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Investigation

Investigation Team

Team

██████████
Daryl Mosby
██████████
██████████
██████████

Event Details

Task or Activity at Time of Incident Drum change

Physical or Immediate Causes of Incident Valve not completely closed during drum change. The plug was also found to be hand tightened.

Immediate Action Taken Upon the operators arriving in the affected area using the handheld LEL, the operators detected levels of approximately 11% around the plug and valve of the empty drum. The operator tightened the valve and plug causing the levels to dissipate in the effected area.

Safe Work Practices

Insurance Reporting

Insurance Group Notified Undetermined

Root Cause Analysis

Root Cause Unnecessary Haste

Costs

Cost Type	Description	Amount
Other		0 USD

Follow Up Responsibilities

Responsible For Incident Investigation Review ██████████ ██████████

Follow Up Responsibilities

Responsible For Incident Closure Daryl Mosby

Corrective Actions

Corrective Actions

Corrective Action Plan Title Awareness Training

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Corrective Action Plan Description Make employees aware of the incident in the next plant meeting, and remind operators to make sure all valves are closed and plugs are properly tightened.

Person Responsible [Redacted] [Redacted]

Due Date 2017-06-22 **Priority** High

Targeted Root Cause Unnecessary Haste (Employee Actions)

Email Notifications

Notifications Log

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Closure)		Incident is ready for closure	2017-06-21 11:44 AM
[Redacted]	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported	2017-06-13 03:08 PM
[Redacted]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2017-06-13 03:08 PM
[Redacted] (Responsible for Incident Review)		Incident investigation completed	2017-06-13 03:08 PM
[Redacted] (EHS Director)	Category: Incident	Incident reported	2017-06-13 11:38 AM
[Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (EHS Director); [Redacted] (Executive)	Category: Incident	Incident reported	2017-06-13 11:38 AM
[Redacted] (Responsible for Incident Investigation)		Incident reported	2017-06-13 11:38 AM

Audit Trail

Status Log

2017-06-21 12:54 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]
 2017-06-21 11:23 [Redacted] Changed Status FROM [Review] TO [Pending Closure]
 2017-06-13 14:50 [Redacted] Changed Status FROM [Investigation] TO [Review]
 2017-06-13 11:24 [Redacted] Changed Status FROM [Draft] TO [Investigation]
 2017-06-13 11:24 [Redacted] Created with Status: Draft

Edit Log

2017-06-21 12:54 Daryl Mosby Saved
 2017-06-21 11:23 [Redacted] Saved
 2017-06-13 14:50 [Redacted] Saved
 2017-06-13 14:50 [Redacted] Created Action: Awareness Training
 2017-06-13 14:50 [Redacted] Changed Responsible for Incident Closure TO [Daryl Mosby]
 2017-06-13 14:50 [Redacted] Changed Responsible for Incident Review TO [Redacted]
 2017-06-13 14:50 [Redacted] Were there any unusual events contributing to exposure changed FROM [Undetermined] TO [Yes]
 2017-06-13 14:50 [Redacted] Unusual events contributing to the EO exposure changed FROM [Undetermined] TO [Yes]

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2017-06-13 14:50 [REDACTED] [REDACTED] Changed Incident Type FROM [Leak/Spill/Release] TO [LEL/GC/Evacuation]