

## Cooley, James

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**From:** Hoffman, Kathy <KHoffman@sterigenics.com>  
**Sent:** Tuesday, September 3, 2019 5:42 PM  
**To:** Cooley, James  
**Subject:** RE: Sterigenics Atlanta Facility - Requested Reports  
**Attachments:** REDACTED - IN-20180402-002.pdf; REDACTED - IN-20180104-002.pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

As requested, attached are the release incident for Incident #20180402-002 and #20180104-002.

Kathy

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**From:** Cooley, James [<mailto:James.Cooley@dnr.ga.gov>]  
**Sent:** Tuesday, September 03, 2019 7:22 AM  
**To:** Hoffman, Kathy  
**Subject:** [EXTERNAL] RE: Sterigenics Atlanta Facility - Requested Reports

**CAUTION:** This email originated from outside of the organization. **DO NOT CLICK** links or attachments unless you recognize the sender and know the content is safe.

Thank you. For some reason I can't read all of the description in the first attachment 180402. Could you resend this one to me?

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**From:** Hoffman, Kathy [<mailto:KHoffman@sterigenics.com>]  
**Sent:** Friday, August 30, 2019 6:16 PM  
**To:** Cooley, James  
**Subject:** Sterigenics Atlanta Facility - Requested Reports

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jim:

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

Sincerely,  
Kathy

[Kathleen Hoffman](#)

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# CONFIDENTIAL

## First Report

**IN-20180402-002**

### 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 and Engineering resulted in emissions of > 10 pounds which triggered reporting to agencies. Final calculations calculated release of 2.6 lb.

### What

Leak/Spill/Release  
LEL/GC/Evacuation

### LEL/GC/Evacuation Additional Information

<b>Meter Reading</b>	240.3 ppm	<b>Area Evacuated</b>	Area
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### Where

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

### When

<b>Date of Occurrence</b>	2018-04-02	<b>Time of Occurrence</b>	9:05 AM
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### Who

<b>Person Involved</b>	██████ ██████	<b>Relationship of Person Involved</b>	Employee
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<b>Supervisor of Person Involved</b>	██████ ██████
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<b>Date Shift Began</b>	2018-04-02	<b>Time Shift Began</b>	7:00 AM
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### Witnesses

<b>Witness</b>	██████ ██████	<b>Relationship of Witness</b>	Employee
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### Internal Reporting

<b>Reported By</b>	██████ ██████
<b>Date Reported</b>	2018-04-02

### Follow Up Responsibilities

**CONFIDENTIAL**

**Responsible For Incident Investigation** [Redacted]

**Investigation**

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*Investigation Team*

**Team** [Redacted]

*Event Details*

**Task or Activity at Time of Incident** General chamber operation.

**Physical or Immediate Causes of Incident** A crack developed in the exhaust pipe from vacuum pump. After cycle stopped, the piping detached.

**Immediate Action Taken** Chamber stopped and maintenance repaired the pipe.

*Safe Work Practices*

*External Reporting Environmental Release*

**Reportable Leak/Spill/Release** No

*Environmental Release*

<b>Chemical Name</b>	Ethylene Oxide	<b>Chemical Class</b>	Flammable
<b>CAS Number</b>	75-21-8		
<b>Release Source</b>	Process Equipment		
<b>Released To</b>	Building		
<b>Quantity Released</b>	2.6 lb	<b>Quantity Recovered</b>	0.2 lb
<b>Duration of Release</b>	12 Minutes		

*Weather Conditions*

**Weather Conditions**

**Wind Speed** **Wind Direction**

*Remediation*

**Remediation Required** No

*Insurance Reporting*

**Insurance Group Notified** No

# CONFIDENTIAL

## Root Cause Analysis

**Root Cause** Defective Tools/Equipment

## Costs

**Cost Type** Other **Amount** 0 USD  
**Description** No cost associated with this event.

## Follow Up Responsibilities

**Responsible For Incident Investigation Review** [REDACTED] [REDACTED]

## Follow Up Responsibilities

**Responsible For Incident Closure** Daryl Mosby

## Corrective Actions

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### Corrective Actions

**Corrective Action Plan Title** Pipe Repair on anti ca valve and review of other affected chambers at the facility.  
**Corrective Action Plan Description** Maintenance to repair the exhaust pipe and evaluate support for the piping.  
**Person Responsible** [REDACTED] [REDACTED]  
**Due Date** 2018-05-31 **Priority** High  
**Targeted Root Cause** Defective Tools/Equipment (Equipment)

## Attachments

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### Files



**Name** AT EO Release Email updates on Georgie EPD.pdf  
**Description** Email from Georgia EPD



**Name** Sterigenics Atlanta Follow up report-April 2018.pdf  
**Description** Follow up report sent to LEPC and SERC

## Email Notifications

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### Notifications Log

Recipients	Parameters	Trigger	Days Sent
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# CONFIDENTIAL

Daryl Mosby (Responsible for Incident Closure)	Incident is ready for closure	2018-04-10 05:16 PM
██████████	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported 2018-04-02 05:43 PM
██████████ (EHS Director); ██████████ (EHS Director)	Category: Incident	Incident reported 2018-04-02 05:43 PM
██████████ (EHS Director); ██████████ (EHS Director); ██████████ (EHS Director); ██████████ (Executive)	Category: Incident	Incident reported 2018-04-02 05:43 PM
██████████ ██████████ ██████████ ██████████ ██████████ ██████████	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported 2018-04-02 05:43 PM
██████████ (Responsible for Incident Investigation)		Incident reported 2018-04-02 05:43 PM
██████████ (Responsible for Incident Review)	Incident investigation completed	2018-04-02 05:43 PM

## Audit Trail

### Status Log

2018-09-17 08:07 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]  
2018-09-17 08:06 Daryl Mosby Changed Status FROM [Closed] TO [Pending Closure]  
2018-05-25 12:56 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]  
2018-04-02 17:39 ██████████ Changed Status FROM [Review] TO [Pending Closure]  
2018-04-02 17:39 ██████████ Changed Status FROM [Investigation] TO [Review]  
2018-04-02 17:32 ██████████ Changed Status FROM [Draft] TO [Investigation]  
2018-04-02 17:32 ██████████ Created with Status: Draft

### Edit Log

2018-09-17 08:07 Daryl Mosby Saved  
2018-09-17 08:07 Daryl Mosby Changed Released To for Ethylene Oxide FROM [Air] TO [Building]  
2018-09-17 08:07 Daryl Mosby Changed Leak/Spill/Release Reportable FROM [Yes] TO [No]  
2018-09-17 08:06 Daryl Mosby Saved  
2018-05-25 12:56 Daryl Mosby Saved  
2018-05-22 11:54 ██████████ Saved  
2018-05-22 11:51 ██████████ Saved  
2018-05-22 11:43 ██████████ Saved  
2018-05-22 11:43 ██████████ New Attachment Added [AT EO Release Email updates on Georgie EPD.pdf]  
2018-05-22 11:43 ██████████ New Attachment Added [Sterigenics Atlanta Follow up report-April 2018.pdf]  
2018-04-18 12:03 ██████████ Saved  
2018-04-18 12:02 ██████████ Saved  
2018-04-18 12:02 ██████████ Changed Leak/Spill/Release Reportable FROM [No] TO [Yes]  
2018-04-18 11:56 ██████████ Saved  
2018-04-18 11:56 ██████████ Changed Leak/Spill/Release Reportable FROM [Undetermined] TO [No]  
2018-04-18 11:54 ██████████ Saved  
2018-04-18 11:54 ██████████ Add Release [Quantity Released 2.6 lb, Quantity Recovered 0.2 lb, Chemical Class [Flammable], Release To [Air]]  
2018-04-18 11:54 ██████████ Changed Incident Type FROM [LEL/GC/Evacuation] TO [Leak/Spill/Release, LEL/GC/Evacuation]  
2018-04-09 14:41 Daryl Mosby Saved  
2018-04-09 14:40 Daryl Mosby Saved  
2018-04-09 13:45 Daryl Mosby Saved  
2018-04-02 17:39 ██████████ Saved

**CONFIDENTIAL**

2018-04-02 17:39 [REDACTED] [REDACTED] Saved  
2018-04-02 17:39 [REDACTED] [REDACTED] Created Action: Exhaust Pipe Repair  
2018-04-02 17:39 [REDACTED] [REDACTED] Changed Responsible for Incident Closure TO [Daryl Mosby]  
2018-04-02 17:39 [REDACTED] [REDACTED] Changed Responsible for Incident Review TO [REDACTED] [REDACTED]  
2018-04-02 17:39 [REDACTED] [REDACTED] FROM [Undetermined] TO [Yes]  
2018-04-02 17:39 [REDACTED] [REDACTED] Unusual events contributing to the EO exposure changed FROM  
[Undetermined] TO [Yes]

**CONFIDENTIAL**

**First Report**

**IN-20180104-002**

*Description*

**Title** Area evacuation 20 ( LEL - Chamber 7 Vacuum pump read > 10 % for 1 minute).

**Description** At approximately 16:45 GMT on 04-Jan-2018 , maintenance was in the process of working on the vacuum pump drip leg on chamber 7. The drip leg was isolated , however the valve was leaking .Liquid from the drip leg fell on LEL #20 causing an area evacuation. Proper PPE was being worn and LEL detector was being used. Chamber was down at the time.

*What*

LEL/GC/Evacuation

*LEL/GC/Evacuation Additional Information*

**Meter Reading** 17 %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** Vacuum Pump 7 / LEL 20.

*When*

**Date of Occurrence** 2018-01-04 **Time of Occurrence** 11:45 AM

*Who*

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

**Supervisor of Person Involved** [REDACTED]

**Date Shift Began** 2018-01-04 **Time Shift Began** 7:00 AM

*Witnesses*

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

*Internal Reporting*

**Reported By** [REDACTED]  
**Date Reported** 2018-01-04

*Follow Up Responsibilities*

**Responsible For Incident Investigation** [REDACTED]



**Investigation**

*Investigation Team*

**Team** Daryl Mosby  
[Redacted]  
[Redacted]  
[Redacted]

*Event Details*

**Task or Activity at Time of Incident** Maintenance working on vacuum pump drip leg.

**Physical or Immediate Causes of Incident** Liquid from drip leg fell on LEL

**Immediate Action Taken** Wiped liquid from LEL.

*Safe Work Practices*

*Insurance Reporting*

**Insurance Group Notified** No

*Root Cause Analysis*

**Root Cause** Defective Tools/Equipment

*Costs*

<b>Cost Type</b>	Other	<b>Amount</b>	0 USD
<b>Description</b>	No Cost.		

*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** LEL protection when performing maintenance in close proximity.

**Corrective Action Plan Description** Disable LEL when working on vacuum pump drip leg located in close proximity to LEL.

**Person Responsible** [Redacted] [Redacted]

**CONFIDENTIAL**

**Due Date** 2018-01-15 **Priority** Medium  
**Targeted Root Cause** Defective Tools/Equipment (Equipment)

**Email Notifications**

*Notifications Log*

Recipients	Parameters	Trigger	Days Sent
Daryl Mosby (Responsible for Incident Review)		Incident investigation completed	2018-01-04 04:26 PM
[REDACTED]	Category: Incident; Incident Type: LEL/GC/Evacuation	Incident reported	2018-01-04 04:11 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director)	Category: Incident	Incident reported	2018-01-04 04:11 PM
[REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (EHS Director); [REDACTED] (Executive)	Category: Incident	Incident reported	2018-01-04 04:11 PM
[REDACTED]	Category: Incident; Incident Type: Emission Control Upset; LEL/GC/Evacuation	Incident reported	2018-01-04 04:11 PM
[REDACTED] (Responsible for Incident Investigation)		Incident reported	2018-01-04 04:11 PM

**Audit Trail**

*Status Log*

2018-01-29 16:54 Daryl Mosby Changed Status FROM [Pending Closure] TO [Closed]  
 2018-01-29 16:54 Daryl Mosby Changed Status FROM [Review] TO [Pending Closure]  
 2018-01-04 16:13 [REDACTED] [REDACTED] Changed Status FROM [Investigation] TO [Review]  
 2018-01-04 16:07 [REDACTED] [REDACTED] Changed Status FROM [Draft] TO [Investigation]  
 2018-01-04 16:07 [REDACTED] [REDACTED] Created with Status: Draft

*Edit Log*

2018-01-29 16:54 Daryl Mosby Saved  
 2018-01-29 16:54 Daryl Mosby Saved  
 2018-01-04 16:13 [REDACTED] [REDACTED] Saved  
 2018-01-04 16:13 [REDACTED] [REDACTED] Created Action: LEL protection when performing maintenance in close proximity.  
 2018-01-04 16:13 [REDACTED] [REDACTED] Changed Responsible for Incident Closure TO [Daryl Mosby]  
 2018-01-04 16:13 [REDACTED] [REDACTED] Changed Responsible for Incident Review TO [Daryl Mosby]  
 2018-01-04 16:13 [REDACTED] [REDACTED] Were there any unusual events contributing to exposure changed FROM [Undetermined] TO [Yes]  
 2018-01-04 16:13 [REDACTED] [REDACTED] Unusual events contributing to the EO exposure changed FROM [Undetermined] TO [Yes]