EVENT INVESTIGATION REPORT

TF-AOP-015
for Odors Reported Inside Building 241-AZ-702
EIR-2018-009

241-AZ-702 Building, Airlock Room 108 and A-Train Filter Room 101

Event Investigation Team Lead Under Instruction

Event Investigation Team Lead

Date: 3/1/18
Date: 3/1/18

PER No. WRPS-PER-2018-009
AOP-015 for Odors Reported Inside Building 241-AZ-702 Room 108 and 101

AOP-015 Summary

<table>
<thead>
<tr>
<th>Event</th>
<th>Odors reported inside 241-AZ-702 Exhauster Building Room 108 and A-Train Filter Room 101</th>
</tr>
</thead>
</table>
| Date/Time of Event | • February 5, 2017  
• ~1418 hours – personnel experience odors |
| Location | 241-AZ-702 Exhauster Building  
• Inside Airlock of Room 108  
• Odors were stronger inside A-Train Filter Room 101 |
| Personnel Affected | Five (5) is Total Number of Personnel Present:  
• Five (5) Electricians performing emergency light inspections  
  o Three (3) were experienced and familiar with AZ-702  
  o Two were in training and new to AZ-702 |
| Odor / Taste | • Weedy / Hops / Organic  
• Sour / Rotten  
• New Motor Break-in |
| Symptoms | • None |
| Direct Read Instrumentation (DRI) Result During Event | • Ammonia: less than detectable levels  
• VOCs: less than detectable levels |
| Industrial Hygiene (IH) Investigative Monitoring / Sampling | Odor grab sampling data results:  
• Ammonia: < DL (less than detectable levels)  
• Total VOCs: < DL  
• D-Limonene (i.e., Citrus component of Simple Green)  
*No odor thresholds to report |
| Possible Source | • New motor recently installed  
• A Train Exhauster |
| Wind Speed / Direction | • Inside Building 241-AZ-702 |
| Waste Disturbing or Tank Work in Adjacent Area | • No tank work |
| Other Work in Adjacent Area | • No other activities in 241-AZ-702 at the time |
Investigation Summary

On Monday, February 5, 2018 at approximately 1410 hours, five (5) Electricians entered the 241-AZ-702 Exhauster Building from the northeast side. They entered the Airlock Room 108 that leads to the A-Train Filter Room 101 during a routine preventative maintenance inspection on the emergency lighting system. Upon entering, they detected an unusual odor which several described as “weedy or beer hops”. As the Electricians entered the A-Train Filter Room 101, the odor became more intense. They accumulatively agreed that the odor was unusual and backed out of Room 108 and closed the inside and outside doors. Once the doors were closed they noted that they could no longer detect the odor.

The Electricians contacted the Field Work Supervisor (FWS). The FWS contacted the AZ Team Area Day Shift Manager (ADSM) who then contacted Central Shift Manager (CSM) and entry was made into AOP-015. The Electricians filled out Odor Response Cards. They declined precautionary medical evaluations and none reported symptoms.

Three (3) of the Electricians were familiar with Room 101 at AZ-702 and were instructing two (2) new Electricians at the time. The (3) three experienced Electricians had not witnessed that particular odor before and believed that it was coming from the newly installed exhauster motor which had been recently installed on January 24, 2018. At the time, the building ventilation system was not operating at the time and odors may have seemed intensified as a result.

During a follow-up investigation at AZ-702 after the AOP-015 had been exited, several investigative team members entered the facility. The door to the A-Train Exhauster Room was opened and individuals experienced a similar odor as the Electricians which could be described as organic and reminiscent of processing grains, hops, grass. Investigative team members concurred that the odor seemed to be coming from the direction of the exhauster motor.

The Industrial Hygiene investigators took direct readings of the Airlock Room 108 and A-Train Filter Room 101. The direct readings found zero (0) chemicals of concern to be at or above detectable levels. Bag sampling was also performed for HAPSITE analysis: one 10L bag from the Airlock and one 10L bag from the A-Train Room 101. Results from the analysis also did not detect chemicals of concern. It did detect the presence of d-limonene, a chemical compound made from citrus peels and found in cleaners such as Simple Green and machine part cleaners. The chemical is not considered harmful. Timeline of events follows:

![Figure 1 Exhauster Motor had been recently Installed](image)
Event Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Sequence of Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/24/18</td>
<td></td>
<td>New motor installed in A-side Filter Room 101</td>
</tr>
<tr>
<td>02/05/18</td>
<td>~1410</td>
<td>Five (5) Electricians from Maintenance entered 241-AZ-702 building as part of an Emergency Light Preventive Maintenance activity.</td>
</tr>
<tr>
<td></td>
<td>~1415</td>
<td>Electricians detect unusual odors and notify FWS</td>
</tr>
<tr>
<td></td>
<td>~1415</td>
<td>FWS notifies AZ Team ADSM</td>
</tr>
<tr>
<td></td>
<td>1418</td>
<td>ADSM notifies CSM and Entry is made into TF-AOP-015</td>
</tr>
<tr>
<td></td>
<td>1422</td>
<td>Shift Office contacts Field IH that AOP-015 is being entered at AZ-702</td>
</tr>
<tr>
<td></td>
<td>~1430</td>
<td>Electricians fill out Odor Response Cards and decline medical evaluation</td>
</tr>
<tr>
<td></td>
<td>1446</td>
<td>CSM Logbook entry: Late entry - SOEN message goes out, “Entering AOP-015 Response to Reported Odors or Unexpected Changes to Vapor Conditions. Entered AOP-015 at 1418 for a beer hops odors in the 702AZ A-Side filter Room observed by five electricians performing emergency light inspections. The 702AZ building has been cleared and posted restricted access. The 702AZ building ventilation is currently off. All five electricians have no symptoms and declined medical evaluation. The A Fan / A filter is currently in operations.”</td>
</tr>
<tr>
<td></td>
<td>1446</td>
<td>CSM Logbook entry continued: “IHTs have been dispatched to perform sampling and odor response cards have been obtained.”</td>
</tr>
<tr>
<td></td>
<td>1446</td>
<td>ORP Facility Representative is notified by CSM</td>
</tr>
<tr>
<td></td>
<td>1449</td>
<td>IHT commence sampling activities. Plan is to take 2 bag samples: one 10L bag from the Airlock Room 108 and one 10L bag from the A-Train Room 101.</td>
</tr>
<tr>
<td>Date</td>
<td>Time</td>
<td>Sequence of Activities</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>------------------------</td>
</tr>
<tr>
<td>1602</td>
<td>IH/IHTs report all DRI readings are less than the detectable</td>
<td></td>
</tr>
<tr>
<td>1602</td>
<td>Grab samples are taken to 2704HV IH lab for HAPSITE analysis.</td>
<td></td>
</tr>
<tr>
<td>2153</td>
<td>Exited AOP-015 for odors in AZ-702 building. No chemicals above actionable. Only one chemical found: d-limonene. This chemical can be found in citrus cleaners. Normal access is restored to AZ-702.</td>
<td></td>
</tr>
</tbody>
</table>

**Immediate Actions Taken**

- 1410: Electricians experience unusual odor coming from A-side Filter Room 108
- 1410: Electricians back out
- 1410: Electricians contact FWS
- 1415: FWS arrives
- 1418: Personnel fill out Odor Response Cards. No symptoms are reported.
- 1418: Entry into AOP-015 is made and access to area is restricted.
- 1602: IH direct reading instrumentation shows chemicals of concern to be less than detectable.

**Compensatory Measures**

1. No Compensatory Measures necessary.

**Preliminary Extent of Condition Review**

Given the current data gathered from this investigation, the extent of condition is believed to exist solely with A-Train Filter Room 108 of 241-AZ-702.

**Discussion of Potential Causes**

The HAPSITE analysis showed the presence of a chemical called d-Limonene which is a chemical derived from orange peels and used in organic cleaners such as Simple Green and for cleaning machine parts. The chemical emits a citrus odor which was not reported by the Electricians. The reported odor threshold for d-Limonene is approximately 10-30 ppb. It is possible that oxidation of the limonene had occurred, as limonene oxide has an unpleasant taste and smell (no further data available). The HAPSITE would not be able to separate the large
peak of limonene from a small amount of the oxide. However, d-Limonene is not considered a harmful chemical.

Discussion of Barriers That Could Have Impacted the Cause

The building ventilation system in AZ-702 was noted as not operating at the time which may have intensified odors in the building.

Recommendations/Proposed Corrective Actions

No recommendations.

Attachments:

1. WRPS-PER-2017-2651
2. Central Shift Office Log
3. Odor Response Cards
4. Industrial Hygiene Odor Response Plan
**Problem Evaluation Request (PER)**

<table>
<thead>
<tr>
<th>PER No</th>
<th>Date of Discovery</th>
<th>Time of Discovery (24:00)</th>
<th>Project</th>
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<tbody>
<tr>
<td>WRPS-PER-2018-0290</td>
<td>02/05/2018</td>
<td>14:15</td>
<td>Maintenance</td>
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**Location**
Other Operations Facility

**How Was Problem Discovered**
Self-Reporting (Event)

**Description of Concern or Problem**

Five electricians were entering the 702-AZ exhauster building, Room 108 for re-lamping. They noticed an odor and exited the building. They notified FWS, ADM and CSM were notified. Entered AOP-015. None of the workers reported symptoms.

**Requirement Not Satisfied**

<table>
<thead>
<tr>
<th>Equipment Identification Number</th>
<th>System Identification</th>
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</thead>
<tbody>
<tr>
<td>702-AZ Exhauster A side</td>
<td>None</td>
</tr>
</tbody>
</table>

**Does issue require immediate actions?**
Yes

**Immediate actions Taken or Planned**

Exited 702-AZ Room 108 and notified CSM. Restricted access to building and entered AOP-015 for odors.

Initiated EIR-2018-009

**Recommended Corrective Actions**
Trend only

**Originator Contact**
Yes

<table>
<thead>
<tr>
<th>Originators Name</th>
<th>Originators ID</th>
<th>Originators Phone</th>
<th>Date Initiated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>02/06/2018</td>
</tr>
</tbody>
</table>

**SHIFT OPERATIONS REVIEW**

**Title**
702AZ ACP-015

**Reportability**
Non-Reportable
Operability
Operability Review
Comp Measures Req
N/A
N/A

**Describe actions Taken or Recommended**

<table>
<thead>
<tr>
<th>EIR-2018-0009</th>
<th>SO Reviewer Name</th>
<th>SO Reviewer ID</th>
<th>SO Reviewer Phone</th>
<th>SO Review Date</th>
<th>N/A</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>02/06/2018</td>
<td></td>
</tr>
</tbody>
</table>

**PER Significance Level**

<table>
<thead>
<tr>
<th>Analysis Level</th>
<th>How Discovered</th>
<th>Ind Assessment Rev</th>
<th>DOE CAP Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Applicable</td>
<td>3 Self-Revealing</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assigned Responsible Manager</th>
<th>Facilities Rep / SSO</th>
<th>Safety Mgmt Rep</th>
<th>Potentially Recurring Issue</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Program**

<table>
<thead>
<tr>
<th>Trend Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>^N/A^</td>
</tr>
</tbody>
</table>

**Date**
2/26/2018
PER Screening Comments

02-07-18
PER with resolution to _________

ORPS Code  |  Functional Area    |  Work Process  |  ISMS
Not Applicable  |  Operations        |  Routine Facility Operation

PER Screening Chair  |  PER Screening Chair ID  |  PER Screening Chair Phone  |  PER Screening Date
_________  |  _________  |  _________  |  02/07/2018

PAAA REVIEW

PAAA Screening  |  PAAA Codes  |  Function Codes
Not subject to PAAA

PAAA Cause Analysis Review  |  NTS Report Number  |  NTS Report Date
No

PAAA Screening Comments
1) Basis for PAAA screening is in file attached to PER. In file, see highlighted green text for non-compliance.
2) Approval per procedure TFC-ESHQ-PAAA-D-08 dated 7/19/2012 (paragraph 4.1.5-7).

PAAA Reviewer Name  |  PAAA Review Date
_________  |  02/07/2018

PAAA Approver Name  |  PAAA Approve Date
_________  |  02/07/2018

CAUSE ANALYSIS

Cause Analyst

Problem Statement

Compensatory Actions

Cause Analysis

Causas

Extent of Condition

HPI Error Precursors

Task Demands  |  Work Environment  |  Individual Capabilities  |  Natural Tendencies/ Human Nature

Has the evaluation of this PER resulted in additional information that could affect the Central Shift Office (CSO) determination of operability or reportability?

No

Comments

Submitter Name  |  Submitter ID  |  Submitter Phone  |  Initial Submit Date

CAUSE CODES

ATTACHMENTS

Link to PER

PER Screen_2-07-18 .pdf

2/26/2018
## AUDIT HISTORY

<table>
<thead>
<tr>
<th>Change Date</th>
<th>Auditor</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
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<td>02/06/2018 06:44</td>
<td></td>
<td>Initiator Tab initial submission.</td>
</tr>
<tr>
<td>02/06/2018 06:54</td>
<td></td>
<td>‘Immediate actions Taken’ was changed, to add EIR number.</td>
</tr>
<tr>
<td>02/06/2018 10:13</td>
<td></td>
<td>SO Tab initial submission.</td>
</tr>
<tr>
<td>02/07/2018 12:54</td>
<td></td>
<td>Screening Tab initial submission.</td>
</tr>
<tr>
<td>02/07/2018 14:31</td>
<td></td>
<td>PAAA Tab initial submission.</td>
</tr>
<tr>
<td>02/08/2018 10:41</td>
<td></td>
<td>Originator Contact Task Launched by [REDACTED].</td>
</tr>
<tr>
<td>02/08/2018 10:41</td>
<td></td>
<td>Responsible Manager Task Launched by [REDACTED].</td>
</tr>
</tbody>
</table>

--- End of Report ---
02/26/2018 02:34 PM
Attachment 2 – Shift Office Log
2/5/18 1446 Late Entry

Entered TF-AOP-015 Response to Reported Odors or Unexpected Changes to Vapor Conditions. Entered TF-AOP-015 Response to Reported Odors or Unexpected Changes to Vapor Conditions. Entered AOP-015 at 1418 for a beer hops odors in the 702AZ A-Side filter room observed by five electricians performing emergency light inspections. The 702AZ building has been cleared and posted restricted access. The 702AZ building ventilation is currently off. All five electricians have no symptoms and declined medical evaluation. The A Fan/A Filter is currently in operation. The five individuals are HHT’s have been dispatched to perform sampling and odor response cards have been obtained. Attachment 2 of AOP-015 has been completed.

Notified [REDACTED] for AOP, at 02/05/2018 14:46

2/5/18 1526


2/5/18 1602

Update to 1446 entry: I&HHT’s report all DRI readings were less then the Instrument detection limits. The bags have been delivered to the lab at 2704HV and are being processed with results expected this evening.

2/5/18 2153

Closing TF-AOP-015. Exit AOP-015 for odors in 702AZ building. IH samples have been analyzed; there were no chemicals above action levels. Only one chemical was found, which was d-limonene. This chemical can be found in citrus cleaners. Normal access is restored to 702AZ.

2/5/18 2155

Notified [REDACTED] for Exit AOP-015 for odors in 702AZ building. IH samples have been analyzed; there were no chemicals above action levels. Normal access is restored to 702AZ.
Attachment 3 – Odor Response Cards and Personal Statements
**Event Investigation Report, EIR-2018-009, AOP-015 for Odors Reported**
**Inside Building 241-AZ-702 Room 108 and Room 101**

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**Odor Response Card**

1. **Contact CSM,** complete below bulleted information and map.
   - Date and time odor was noticed: 02/05/18 2:10 pm
   - Your name and the work you were performing: [Redacted]
   - Location of odors (mark area on map and wind direction): Inside Building 241-AZ-702
   - Name of others in or near the affected area: [Redacted]
   - Was an IHT present? No
   - Describe the odor: [Redacted]
   - Possible source: [Redacted]
   - Your symptoms (if any): [Redacted]

2. Send this card to the Central Shift Office.

---

**Odor Response Card**

1. **Contact CSM,** complete below bulleted information and map.
   - Date and time odor was noticed: 2:5:18
   - Your name and the work you were performing: [Redacted]
   - Location of odors (mark area on map and wind direction): Inside Building 241-AZ-702
   - Name of others in or near the affected area: [Redacted]
   - Was an IHT present? No
   - Describe the odor: [Redacted]
   - Possible source: [Redacted]
   - Your symptoms (if any): [Redacted]

2. Send this card to the Central Shift Office.

Odor Response Card

1. Contact CSM, complete below bulleted information and map.

   - Date and time odor was noticed: 2/5/18, 2:10 PM
   - Your name and the work you were performing: Included in PM Inspection
   - Location of odors (mark area on map and wind direction): Building AZ-702 Room 108
   - Name of others in or near the affected area: No
   - Was an IHT present? No
   - Describe the odor: Sweet, Sour, Musty, Earthy, Metallic, Smoky, Rotten, Onion
   - Possible source: Air Train Exhaust
   - Your symptoms (if any): Headache, Dizziness, Light-Headed, Nausea, Cough

2. Send this card to the Central Shift Office.

Odor Response Card

1. Contact CSM, complete below bulleted information and map.

   - Date and time odor was noticed: 2/5/2018, 2:10 PM
   - Your name and the work you were performing: Included in PM Inspection
   - Location of odors (mark area on map and wind direction): Building AZ-702 Room 108
   - Name of others in or near the affected area: No
   - Was an IHT present? No
   - Describe the odor: Sweet, Sour, Musty, Earthy, Metallic, Smoky, Rotten, Onion
   - Possible source: Air Train Exhaust
   - Your symptoms (if any): Headache, Dizziness, Light-Headed, Nausea, Cough

2. Send this card to the Central Shift Office.
INITIAL EVENT INVESTIGATION PERSONAL STATEMENT

Event/Subject: Strong Odor from A2-702 Room 108
PER Number (if known): Date of Event: 2/5/18

INSTRUCTIONS:
To be used for obtaining personal statements or interviews in support of investigation and analysis of abnormal events and issues. Personal statements and results of interviews will not be issued with the Investigation Report/PER.

❖ In your own words, write down the facts as you understand them about what happened during the issue/event/condition being evaluated. Upon performing routine preventive maintenance on buildings A2-701 and A2-702 we opened the door to the airlock that is outside of room 108 and got a whiff of a strong odor. When door to 108 was opened odor gained strength. Upon talk with the other 4 electricians we exited and called our field work supervisor.

❖ Facility/Work Area conditions as you knew them prior to, during, and after the event/condition (e.g., weather, equipment malfunctions, alarms, other on-going work in the vicinity).

Only known condition was that I'm aware of was the installation of a new primary exhaust motor a few weeks prior.

❖ What were you doing immediately prior to, during, and after the event/condition? Including your actions in response. We were performing scheduled checks on emergency lights and we had one in room 108 that needed inspection. I took two steps into the airlock and then exited. After exiting we notified management then we were advised to leave.

❖ List any known concerns with procedures, practices, or training.

None.

❖ Names of others who may have additional information.

[Redacted]

❖ Additional facts you wish to provide.

None.

Note: If additional sheets are used, sign, date, and record time on each page.

[Redacted]

Date & Time of Statement/Interview

2/5/18 10:50 AM

Page 1 of 1

A-003-068 (REV 2)
### Initial Event Investigation Personal Statement

**Event/Subject:**

**Strong odors from AZ-702, A Trace Room**

**PER Number (if known):**

**Date of Event:** 02/05/18

**INSTRUCTIONS:**

To be used for obtaining personal statements or interviews in support of investigation and analysis of abnormal events and issues. Personal statements and results of interviews will not be issued with the investigation Report/PER.

- In your own words, write down the facts as you understand them about what happened during the issue/event/condition being evaluated.
  
  *As we were performing emergency light tests, we walked into room 108 at AZ-702 and could smell a strong odor but nothing alarming until we opened the second door to a fire pump. By then, the odor got really strong. We exited the building and notified our supervisor.*

- Facility/Work Area/Conditions as you knew them prior to, during, and after the event/condition (e.g., weather, equipment malfunctions, alarms, other on-going work in the vicinity).
  
  Weather was good. Work area condition is good.

- What were you doing immediately prior to, during, and after the event/condition? Including your Action(s) in response.
  
  *Testing emergency lights in AZ-701, AZ-271, and AZ-702.*

- List any known concerns with procedures, practices, or training.
  
  *None*

- Names of others who may have additional information.

  *Redacted*

- Additional facts you wish to provide.

  *None*

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**Note:** If additional sheets are used, sign, date, and record time on each page.

**Date & Time of Statement/Interview:** 02/06/18 10:35 AM

**Names:**

*Redacted*
INITIAL EVENT INVESTIGATION PERSONAL STATEMENT

Event/Subject:

PER Number (if known): Date of Event: 2-6-18

INSTRUCTIONS:
To be used for obtaining personal statements or interviews in support of investigation and analysis of abnormal events and issues. Personal statements and results of interviews will not be issued with the Investigation Report/PER.

- In your own words, write down the facts as you understand them about what happened during the issue/event/condition being evaluated.
  - Entered RM 108 at Building 702. Encountered odor (Hoppin Smell with slight sweet smell)

- Facility/Work Area conditions as you knew them prior to, during, and after the event/condition (e.g., weather, equipment malfunctions, alarms, other on-going work in the vicinity).
  - RM 108 at Building 702 was sealed by door before entering, upon entering RM 108 I smelled the odor. There was no circulation in Room. Exitied RM 108 and closed door to RM 108.

- What were you doing immediately prior to, during, and after the event/condition? Including your Action(s) in response.
  - Conducting Emergency Light inspections prior to event. During event Fire Alarm was left as post to secure RM 108. Notifying FWS. Other electricians continued until we were told to come back to MO-677. This was after being relieved of my post.

- List any known concerns with procedures, practices, or training.
  - NONE

- Names of others who may have additional information.
  - [Redacted]

- Additional facts you wish to provide.
  - NONE

Note: If additional sheets are used, sign, date, and record time on each page.

[Signature]  2-6-18  Date & Time of Statement/Interview

Page 1 of 1
Attachment 4 – Industrial Hygiene Odor Response Plan
**Response to Reported Odors or Unexpected Changes to Vapor Conditions**

**Attachment 1 – Odor Response Plan**

**DESCRIPTION OF EVENT (date/time & description of odors detected, location, symptoms, etc.):**

1/4/10. 5 electricians performing monthly emergency light inspections in Room 108 (A-Team Side) noted an odor described as “happily (like hops),” “sweet,” “spicy,” “sour,” and “other.” No symptoms were reported. See attached odor response charts.

**RESPONSE STEPS:** Attach additional pages as needed.

1. JV then issued entering TMA-MAPs. After discussion with Electrician’s FNS and reviewing odor response charts, the Shift IHs were briefed on response.
2. IHs to perform continuous Ammonia, VOC, and Mercury DRI monitoring. Open the room door. If odor is still present, then exit the A-Team fan room and pull a 10L grab air sample. Place the grab air sample to flow for HEPARZ analysis. See attached timeline.

IH Sampling Plan: [HPC-096]  
RWP: N/A

JHA: N/A  
Other

**REQUIRED APPROVAL SIGNATURES**

- Industrial Hygiene: [Redacted]  
  Date: 2-5-18
- Central Shift Manager: [Redacted]  
  Date: 2-5-18

**ADDITIONAL SIGNATURES**

- RadCon Hazard Assessor:  
  Date:
- Industrial Safety:  
  Date:
- Environmental:  
  Date:
- Engineer:  
  Date:

**Odor Response Plan Notes:**

- Monitoring data can be found in DRI # 16-01054
- OT program analysis completed 2/5/18 2PM
- Operations exited AOP-15 at 2152 2/5/18 with no restrictions
- SEE EIR-2018-009 for additional information

**RESPONSE PLAN COMPLETED:**  
2-6-18  
Safety & Health Rep.