

C-67 Event Investigation Reports (Redacted) EIR-2023-046 (06/20/2023)

(Settlement Agreement Deliverable)

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
Office of River Protection under Contract DE-AC27-08RV14800



**P.O. Box 850
Richland, Washington 99352**

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Washington River Protection Solutions

Date Published
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WRPS

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APPROVED
By Lynn M Ayers at 10:20 am, Aug 22, 2023

Release Approval

Date

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Washington River Protection Solutions
EVENT SUMMARY

Check PART 1 box to hide that section of the form. Check PART 2 box it will show that section.

PART 1 (hide)* PART 2 (show)*

NOTE: This form provides timely notification to management and documents preliminary information of an event that may require a more formal investigation. Details may change upon further examination and analysis. The following is a current status of available information:

Project: Retrieval and Closure Date: 06/20/2023

Area/Building/Location: MO-164 & 2767E / 200E Approximate Time of Event: 0954 hours

AR Number: WRPS-AR-2023-1768 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-046 Event Investigator: [REDACTED]

EVENT SUMMARY PART 1

Activity in Progress (What activity was under way, include procedures and work order numbers, as applicable):

4 subcontract Electricians were building electrical racks outside 2767E electrical shop.

Personnel Involved (Job positions, number of personnel, identify any support organizations or subcontractors directly involved):

- 4 Electricians (American Electric(AEI)).

What Happened (Provide a short discussion of what happened):

On 06/20/2023, at approximately 0954 hours, AEI electricians encountered a stronger than normal "Pump Truck" odor while building electrical racks outside 2767E and transitioning from MO-164.

The 4 Electricians reported no symptoms. All workers declined to report to the onsite medical provider for precautionary medical surveillance.

Where Did It Happen (Description of work area and working conditions. Include information on weather conditions, PPE, Postings, etc.):

Outside 2767E and transitioning between MO-164 West of AY Farm. The Electricians were wearing Level D PPE associated with the task they were performing.

The Hanford Site Meteorological Station #6 and Data Fusion and Advisory System (DFAS) application, powered by SmartSite™, were utilized for outdoor weather details at the time odors were reported.

The Hanford Site Meteorological Station #6 and DFAS dashboard indicated the following weather conditions at 0930 hours on 06/20/2023:

- . Wind Speed: 8 miles per hour (mph)
- . Wind Direction: 360 ° (out of South-SouthWest)
- . Mixing Height: 1500 feet above grade
- . Stability Class: D (neutral conditions)
- . Temperature: 60° F
- . Barometric Pressure: 29.38 inches Hg
- . Humidity: 43%.

Impact to Facility (Caused by the event or a description of known consequences):

Restricted access to the area around MO-164.

Immediate Actions Taken (List immediate actions taken to stabilize the scene or respond to the event):

- Subcontract Electricians reported to the Central Shift Manager (CSM) that workers smelled stronger than normal odors.
- The CSM initiated TFC-OPS-OPER-C-67, "Response to Stronger than Normal Odors;" restricted access to the area around MO-160; and issued SOEN.
- The CSM made required TFC-OPS-OPER-C-67 notifications.
- Production Operations shift Industrial Hygiene Technician (IHT) initiated TFC-OPS-OPER-C-67 response actions and monitoring per IHSP-POE-MULTI-TFCOPSOPERC67.
- Event Investigation EIR-2023-046 "MO-164/2767E Odor Event" was initiated.

Washington River Protection Solutions
EVENT SUMMARY (Continued)

Project: Retrieval and Closure Date: 06/20/2023

Area/Building/Location: MO-164 & 2767E / 200E Approximate Time of Event: 0954 hours

AR Number: WRPS-AR-2023-1768 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-046 Event Investigator: [REDACTED]

Notifications Already Made (Time and personnel notified):

[1000 hours] - AEI Electricians reported "Bad egg" odor to the CSM.
[1013 hours] - The CSM initiated TFC-OPS-OPER-C-67; restricted access, provided radio announcement, and issued SOEN "Initiating TFC-OPS-OPER-C-67 for odors identified near MO-164. Areas has been restricted." Notified the on-call DOE Facility Representative and informed them of TFC-OPS-OPER-C-67 event initiation.
[1102 hours] - The CSM provided TFC-OPS-OPER-C-67, Attachment B - Initial Communication Summary email to distribution list "DL - WRPS Odor/Vapor Event Notification."
[1256 hours] - The CSM issued SOEN: "OPER-C-67 response at MO-164/2767E is complete. IHT readings are at or below background levels. Access to the MO-164 is restored."
[1357 hours] - The CSM issued SOEN: Initiated EIR-2023-046 "MO-164/2767E Odor Event."
[1329 hours]- The CSM provided TFC-OPS-OPER-C-67, Attachment C - Follow-Up Event Summary email to distribution list "DL - WRPS Odor/Vapor Event Notification."

This event does not merit an Event Investigation meeting

This event merits an Event Investigation meeting

Basis for Determination:

Information gathered from interviews and documentation reviews have provided sufficient information regarding this event.

Responsible Manager:

[REDACTED] _____ Date: 2023.06.21 09:51:11 -0700
Print First and Last Name Signature / Date

CAS Manager:

[REDACTED] _____
Print First and Last Name Signature / Date

EVENT SUMMARY PART 2

Key Elements of the Investigation (Key investigation points):

Direct reading instrument (DRI) monitoring results in and around area where individuals experienced odors (summarized from Industrial Hygiene Investigation Report (IHIR), IHIR-00074, "TFC-OPS-OPER-C-67 Response Near MO164 2237E"):

During the response, Retrieval/Closure (R/C) Industrial Hygienist (IH-2) accompanied the Industrial Hygiene Technician (IHT) using a slow approach to perform DRI monitoring near the following areas:

- MO098/MO164/MO173/MO174 - no odor present.
- Two dumpsters near the mobile offices (MOs) listed above - no odors matching description present, smells of trash were observed.
- 2767E - no odors matching description present. Smells of cut wood were observed near open carpenter's shop.
- 2237E - no odors present.
- Porta-Potties near 2767E and MO2254 - no odors matching description present, within 6 feet of porta-potties smells of "clean porta-potty" or "blue juice" were observed.
- North of 244AR - no odors present.

These results along with the review of the atmospheric conditions outside of the area where individuals experienced odors around the reported time of the event indicate the cause of the odor is unlikely to be from Tank Farm emissions.

Nearby Potential Odor Sources

Washington River Protection Solutions
EVENT SUMMARY (Continued)

Project: Retrieval and Closure Date: 06/20/2023

Area/Building/Location: MO-164 & 2767E / 200E Approximate Time of Event: 0954 hours

AR Number: WRPS-AR-2023-1768 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-046 Event Investigator: [REDACTED]

Key Elements of the Investigation (Key investigation points):

- The area where individuals experienced the odors has a long history of similar odors or odors that have been found to be associated with sources other than Tank Farm vapor source emissions, such as septic tank gaseous emissions. The initiating event was a stronger than normal "sulfur, rotten, septic/sewer, musty" odor. Sulfur odors are indicative of nearby septic related equipment. The area where individuals experienced the odors is adjacent to major roads which are often traveled by septic service vehicles. Nearby septic systems include:
 - o 2607-EB: Small septic tank and an associated drywell; isolated in 2003; located directly south of 2237E.
 - o 2607-EB: The septic tank services the 204AR building; presently active; located directly south of 2237E.
 - o 2607-E13: Septic system was used to dispose of sanitary waste from the adjacent M0569 restroom trailer; pumped and the lid was removed and destroyed, filled with Controlled Density Fill on 9/20/2021; located on the west side of Buffalo Ave., north-northeast of 2237E.
 - o M0098/M0164/M0173/M0174: Sewer access ports can be found outside each facility; west and southwest of 2237E; presently active.

Conclusions:

Based on the event investigation and reviewing environmental conditions related to worker location, wind direction, and available monitoring data when the odors were reported, it is unlikely that the odors reported by the workers were caused by Tank Farm vapors. DRI monitoring and observations made by R/C IH-2 and IHT demonstrated conditions which caused the experienced odors were no longer present. As a result the area where odors were reported was released from restricted access and work was allowed to continue. Odor descriptors provided by workers are consistent with nearby potential sources in the area.

Additional Compensatory/Remedial Measures (any additional measures taken if different from immediate actions):

None.

Lessons Learned or Information That the Work Force Needs Immediately:

None. Per TFC-OPS-OPER-C-28, "Operating Experience/Lessons Learned," this event did not meet the criteria requiring generation of a Lessons Learned.

- An Event Investigation will be completed per [TFC-OPS-OPER-C-14](#)
- This event will be managed by another process, i.e., Operability Evaluation, Engineering Technical Evaluation, etc.
- This event does not require continuation of the Event Investigation process

Basis for Determination:

This event does not require continuation of the event investigation process under TFC-OPS-OPER-C-14, "Event Investigation Process." The facts, findings, and comprehensive account captured under this Event Summary and the IHIR form the basis that further investigation will provide no additional information or operational benefit.

Washington River Protection Solutions
EVENT SUMMARY (Continued)

Project: Retrieval and Closure Date: 06/20/2023

Area/Building/Location: MO-164 & 2767E / 200E Approximate Time of Event: 0954 hours

AR Number: WRPS-AR-2023-1768 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-046 Event Investigator: [REDACTED]

Responsible Manager:

[REDACTED] [REDACTED] [REDACTED]
Print First and Last Name *Signature / Date*

CAS Manager:

[REDACTED] [REDACTED] [REDACTED]
Print First and Last Name *Signature / Date*

Washington River Protection Solutions
INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT

Event Title: TFC-OPS-OPER-C-67 Response Near MO164/2237E	PER Number: N/A
	IHIR Number: IHIR-00074

Date: 06/20/2023	Time: 0900	Location: AEI Electrician's Shop Area, near MO164/2237E
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Event Summary and Timeline:

Event Summary:
 Between 1400 and 1500 on 06/19/2023, two workers experienced a "sulfur-like, rotten" odor to the east of MO164, outside of 2237E, but did not report the odor. At approximately 0900 on 06/20/2023, three workers experienced a "septic/sewer, rotten, musty" odor outside of 2237E. All employees reported no symptoms and declined precautionary medical surveillance.

Field Response Timeline:

0948 Building Trades/Craft Safety Representative notifies Retrieval/Closure Industrial Hygienist (R/C IH)-1 of stronger than normal odors east of MO164, outside of 2237E. R/C IH-1 directed workers to move away from area

0954 R/C IH-1 notifies Central Shift Manager (CSM) of reported stronger than normal odors

0954 R/C IH-1 contacts Building Trades/Craft Safety Representative for additional information

0959 CSM contacts R/C IH-1 for update

1001 Production Operations East (POE) IH-1 arrives at Central Shift Office (CSO)

1002 POE IH-2 arrives at CSO

1003 POE IH-2 requests POE Industrial Hygiene Technician (IHT) Supervisor to have Direct Reading Instrument (DRI) equipped with the following sensors prepared:

- Ammonia (NH3)
- Volatile Organic Compounds (VOC)
- Hydrogen sulfide (H2S)

1007 POE IHS check Data Fusion Advisory System (DFAS) on 06/20/2023 @ 0945 for current weather conditions:

- Stability Class: D (neutral conditions)
- Wind Speed: 7.9 mph
- Wind Direction: 195° (out of south-southwest)
- Mixing Height: 1500 feet above grade

1011 Shift Office Event Notification (SOEN): "Initiating C-67 Odor Response for a stronger than normal odors near MO164. Access near MO164 is restricted until Odor Response has been completed. CSM"

1014 POE IHT Supervisor arrives at CSO

1015 POE IHT Supervisor informs POE IHS that at approximately 1010 POE IHTs en route to prepare DRI

1016 Two Nuclear Chemical Operators (NCOs) and one Operations Engineer (OE) arrive as CSO

- CSM provides direction on access restriction placement

1023 POE Shift IHT arrives at CSO

1025 R/C IHS arrive at CSO

1027 R/C IH-1 updates POE IH-1 and CSM

1037 CSM and POE IH-1 discuss respiratory protection equipment (RPE)

- none required

1040 POE IH-2 and CSM sign TFC-OPS-OPER-C-67 Attachment A Sheet 1 of 2, Response Plan

1043 POE IH-1 and R/C IH-2 briefs POE Shift IHT on response

- monitor per IHSP-POE-MULTI-TFCOPSOPERC67
- provided map of area
- provided response plan with trailers for monitoring
- no RPE required
- no Radiological Work Permit (RWP) required

1044 POE Shift IHT and R/C IH-2 depart CSO to initiate field response

1047 American Electric Inc. (AEI) Safety and Building Trades/Craft Safety Representative arrive at CSO with Odor/Vapor Response Cards for POE IHS, R/C IH-1, and CSM review:

- four workers total
- two of four encountered odor yesterday

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INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT(Continued)

Event Summary and Timeline:

- three of four encountered odor today
- no symptoms reported
- all declined precautionary medical surveillance
- 1107 R/C IH-2 contacts RC IH-1 and POE IH-1:
 - all readings non-detect
 - could smell "clean porta-potty" odor near porta-potty
 - en route to post function check DRI
- 1118 CSM contacts Performance Assurance (PA)
 - EIR-2023-046
- 1119 Responding personnel return
 - DRI passed post function check
- 1123 CSM and POE IH-2 sign TFC-OPS-OPER-C-67 Attachment A Sheet 2 of 2, Response Plan
- 1256 SOEN: "Response per C-67 Odor Response for a stronger than normal odors near MO-164 has been completed. IH results at or below background levels. Normal access restored. CSM"

Electricians were performing work outside of Tank Farm boundaries, thus RPE and PAMs were not required.

Sampling/Monitoring Results:

DRI Monitoring Results in and around area where individuals experienced odors:

During the response, R/C IH-2 accompanied IHT using a slow approach to perform DRI monitoring near the following areas:

- MO098/MO164/MO173/MO174 - no odor present
- Two dumpsters near MOs listed above - no odors matching description present, smells of trash were observed
- 2767E - no odors matching description present, smells of cut wood were observed near open carpenter shop
- 2237E - no odors present
- Porta-Potties near 2767E and MO2254 - no odors matching description present, within 6 feet of porta-potties smells of "clean porta-potty" or "blue juice" were observed
- North of 244AR - no odors present

DRI monitoring readings:

- Hydrogen Sulfide: less than 0.1 ppm
- Ammonia: less than 1 ppm
- Volatile Organic Compounds: less than 0.010 ppm

SWIHD References:

SWIHD DRI Survey:

- #23-03851 "TFC-OPS-OPER-C-67 response at MO164 area"

Additional Information:

These results along with the review of the atmospheric conditions outside of the area where individuals experienced odors around the reported time of the event indicate the cause of the odor is unlikely to be from Tank Farm emissions. Below are the DFAS and VMDS data:

Review of DFAS at the approximate time of odor event on 06/19/2023 @ 1400:

- Wind Speed: 12.6 mph
- Wind Direction: 257° (out of West-Southwest)
- Mixing Height: 1500 feet above grade
- Stability Class: C (slightly unstable conditions)

VMDS exhauster ammonia readings at the approximate time of odor event on 06/19/2023 @ 1400:

- POR518 (241-A): 1.964 ppm
- POR519 (241-A): 1.061 ppm
- POR126 (241-AX): Not Operational
- POR127 (241-AX): 7.534 ppm
- 702AZ (241-AY/AZ): 0 ppm

Review of DFAS at the approximate time of the event on 06/20/2023 @ 0900:

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INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT(Continued)

Additional Information:

- Wind Speed: 8.0 mph
- Wind Direction: 246° (out of West-Southwest)
- Mixing Height: 1200 feet above grade
- Stability Class: D (neutral conditions)

VMDS exhauster ammonia readings at the approximate time of odor on 06/20/2023 @ 0900:

- POR518 (241-A): 1.929 ppm
- POR519 (241-A): 1.086 ppm
- POR126 (241-AX): Not Operational
- POR127 (241-AX): 6.143 ppm
- 702AZ (241-AY/AZ): 0 ppm

Exhauster stacks have enhanced monitoring, VMDS, that can be used to detect elevated readings and provide further warnings of unexpected conditions. As a more conservative approach, Memo WRPS-1904672.1, TANK FARM EXHAUST STACK CONCENTRATION ALARM/ ACTION LEVELS FOR AMMONIA establishes stack alarm/action set points for Tank Farm Exhausters. The alarm/action set points are based on a linear extrapolation of the Quantitative Risk Assessment model prediction resulting in various ammonia concentrations at an unspecified ground receptor.

- 241-A:
 - High Alarm was conservatively established at 160 ppm Ammonia
 - Ammonia concentration of 2.5 ppm at an unspecified ground receptor
 - High High Alarm was conservatively established at 320 ppm Ammonia
 - Ammonia concentration of 5 ppm at an unspecified ground receptor
- 241-A Complex:
 - High Alarm was conservatively established at 460 ppm Ammonia
 - Ammonia concentration of 2.5 ppm at an unspecified ground receptor
 - High High Alarm was conservatively established at 920 ppm Ammonia
 - Ammonia concentration of 5 ppm at an unspecified ground receptor

Furthermore, the review of VMDS data concludes that there was very low potential for ground level exposure from exhausters.

Nearby Potential Odor Sources

- The area where individuals experienced the odors has a long history of similar odors or odors that have been found to be associated with sources other than Tank Farm vapor source emissions, such as septic tank gaseous emissions. The initiating event was a stronger than normal "sulfur, rotten, septic/sewer, musty" odor. Sulfur odors are indicative of nearby septic related equipment. The area where individuals experienced the odors is adjacent to major roads which are often traveled by septic service vehicles. Nearby septic systems include:
 - 2607-EB: Small septic tank and an associated drywell; isolated in 2003; located directly south of 2237E.
 - 2607-EB: The septic tank services the 204AR building; presently active; located directly south of 2237E.
 - 2607-E13: Septic system was used to dispose of sanitary waste from the adjacent M0569 restroom trailer; pumped and the lid was removed and destroyed, filled with Controlled Density Fill on 9/20/2021; located on the west side of Buffalo Ave., north-northeast of 2237E.
 - M0098/M0164/M0173/M0174: Sewer access ports can be found outside each facility; west and southwest of 2237E; presently active.

Recommendations/Conclusions:

Recommendations:

It is recommended that the Event Investigator and the IH review results of the investigation report with the work crew.

Conclusions:

Based on the event investigation and reviewing environmental conditions related to worker location, wind direction, and available monitoring data when the odors were reported, it is unlikely that the odors reported by the workers were caused by Tank Farm vapors. DRI monitoring and observations made by R/C IH-2 and IHT demonstrated conditions which caused the experienced odors were no longer present. As a result the area where odors were reported was released from restricted access and

Washington River Protection Solutions
INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT(Continued)

Recommendations/Conclusions:

work was allowed to continue. Odor descriptors provided by workers are consistent with nearby potential sources in the area. However, the investigation was not able to determine the source of the reported odors.

Other:

Event Investigation Report: EIR-2023-046.

Industrial Hygienist:

██████████

Print First and Last Name

██████████

Signature / Date

██████████

Industrial Hygiene Level 2 Manager:

██████████

Print First and Last Name

██████████

Signature / Date



██████████

ODOR/VAPOR RESPONSE CARD - 241 A FARM - AEI Electrical Shop

1. Complete below information and map (Page 1).

- Date and time of event: 06-19-2023
- Check Applicable:
 - Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____
- Your name and the work you were performing:

[Redacted] - Building a rack outside of electrical shop
- Other Work Underway? Describe: _____
- Location of event (mark area on map and wind direction): Northward wind
- Name(s) of others in or near the affected area: [Redacted]
- Was Industrial Hygiene present, who? [Redacted]
- Describe the odor:

<input type="checkbox"/> Sweet	<input type="checkbox"/> Sour	<input type="checkbox"/> Smoky	<input type="checkbox"/> Septic/Sewer	<input type="checkbox"/> Musty	<input checked="" type="checkbox"/> Rotten
<input type="checkbox"/> Metallic	<input type="checkbox"/> Onion	<input type="checkbox"/> Earthy	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Citrus	<input type="checkbox"/> Solvent

Other (describe): Sulfur like
- Is source known/likely? Describe: _____
- Your symptoms? None

<input type="checkbox"/> Headache	<input type="checkbox"/> Dizziness	<input type="checkbox"/> Nausea	<input type="checkbox"/> Cough	<input type="checkbox"/> Fatigue
<input type="checkbox"/> Weakness	<input type="checkbox"/> Sore Throat	<input type="checkbox"/> Difficulty Breathing	<input type="checkbox"/> Eye Irritation	<input type="checkbox"/> Rash
<input type="checkbox"/> Itch	<input type="checkbox"/> Tingling	<input type="checkbox"/> Numbness	<input type="checkbox"/> Taste	

Other (describe): _____

2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM. If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

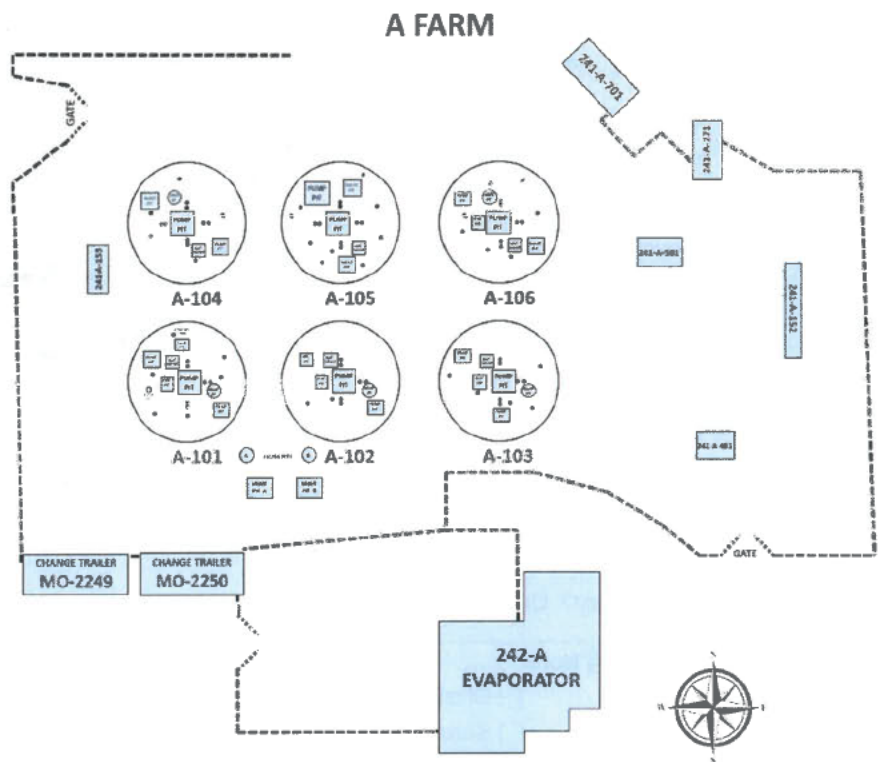
We were on the electrical part building a rack for SY Farm when an odor (sulfur, sewage) struck us. There was a northward wind and smell would come & go throughout afternoon. Checked for ~~sewage~~ trucks septic but none were seen.

ODOR/VAPOR RESPONSE CARD - 241 A FARM

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at [REDACTED]
3. Complete both pages of this form and include as many details as possible, including:
 - a. Approximate location, see map at right;
 - b. Wind direction, speed and description, such as stable or gusty wind;
 - c. Environmental conditions, such as hot, cold, windy, rainy;
 - d. Other work or contractors in the area;
 - e. Anything else you think is relevant.
4. Provide the completed card to your Supervisor*, Industrial Hygiene*, Union Safety Representative* or the CSM.

* If received by Supervisor, IH, or Union Safety Representative, the Supervisor/IH/ Union-SR will ensure card it is provided to the CSM.



ODOR/VAPOR RESPONSE CARD - 241 A FARM

1. Complete below information and map (Page 1).

- Date and time of event: 6-20-2023 9:00
- Check Applicable:
 Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____
- Your name and the work you were performing:
[Redacted] Building a Rack.
- Other Work Underway? Describe: NA
- Location of event (mark area on map and wind direction): AE Electrical shop
- Name(s) of others in or near the affected area: [Redacted]
- Was Industrial Hygiene present, who? NO
- Describe the odor:
 Sweet Sour Smoky Septic/Sewer Musty Rotten
 Metallic Onion Earthy Ammonia Citrus Solvent
 Other (describe): Crap smell (shit)
- Is source known/likely? Describe: NO
- Your symptoms? None
 Headache Dizziness Nausea Cough Fatigue
 Weakness Sore Throat Difficulty Breathing Eye Irritation Rash
 Itch Tingling Numbness Taste
 Other (describe): _____

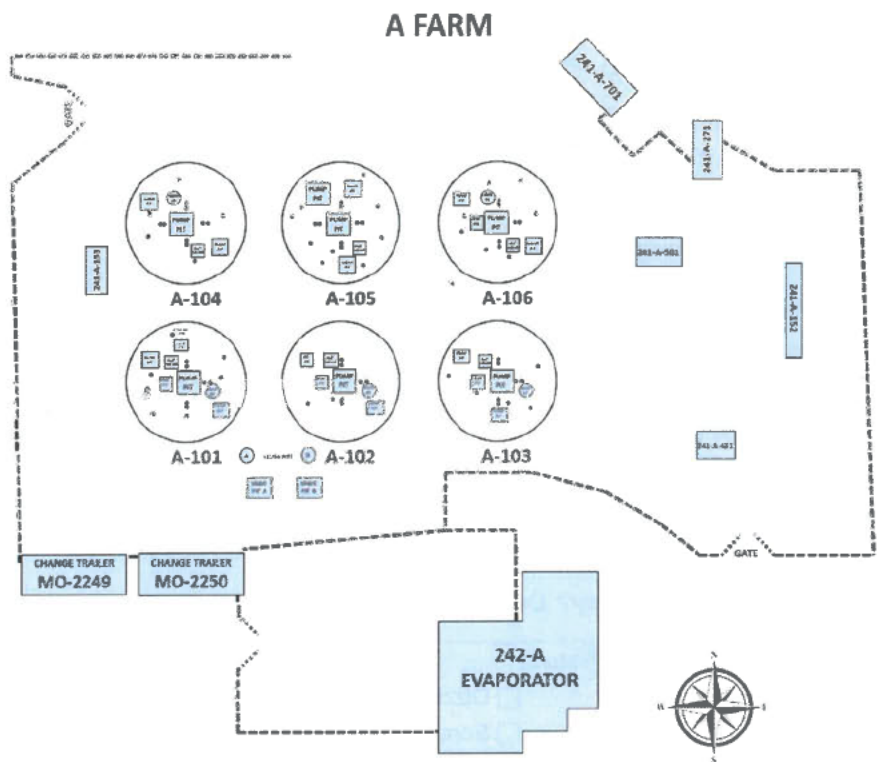
2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM. If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

ODOR/VAPOR RESPONSE CARD - 241 A FARM

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at [REDACTED]
3. Complete both pages of this form and include as many details as possible, including:
 - a. Approximate location, see map at right;
 - b. Wind direction, speed and description, such as stable or gusty wind;
 - c. Environmental conditions, such as hot, cold, windy, rainy;
 - d. Other work or contractors in the area;
 - e. Anything else you think is relevant.
4. Provide the completed card to your Supervisor*, Industrial Hygiene*, Union Safety Representative* or the CSM.

* If received by Supervisor, IH, or Union Safety Representative, the Supervisor/IH/ Union-SR will ensure card it is provided to the CSM.



ODOR/VAPOR RESPONSE CARD - 241 A FARM

1. Complete below information and map (Page 1).

- Date and time of event: 6/19/23 & 6/20/23 AS 2023
- Check Applicable:
 Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____
- Your name and the work you were performing: [Redacted] Building Rack
- Other Work Underway? Describe: _____
- Location of event (mark area on map and wind direction): Outside Electrical shop East concrete pad
- Name(s) of others in or near the affected area: [Redacted]
- Was Industrial Hygiene present, who? NO
- Describe the odor:
 Sweet Sour Smoky Septic/Sewer Musty Rotten
 Metallic Onion Earthy Ammonia Citrus Solvent
 Other (describe): Sulfur
- Is source known/likely? Describe: NO
- Your symptoms? None
 Headache Dizziness Nausea Cough Fatigue
 Weakness Sore Throat Difficulty Breathing Eye Irritation Rash
 Itch Tingling Numbness Taste
 Other (describe): _____

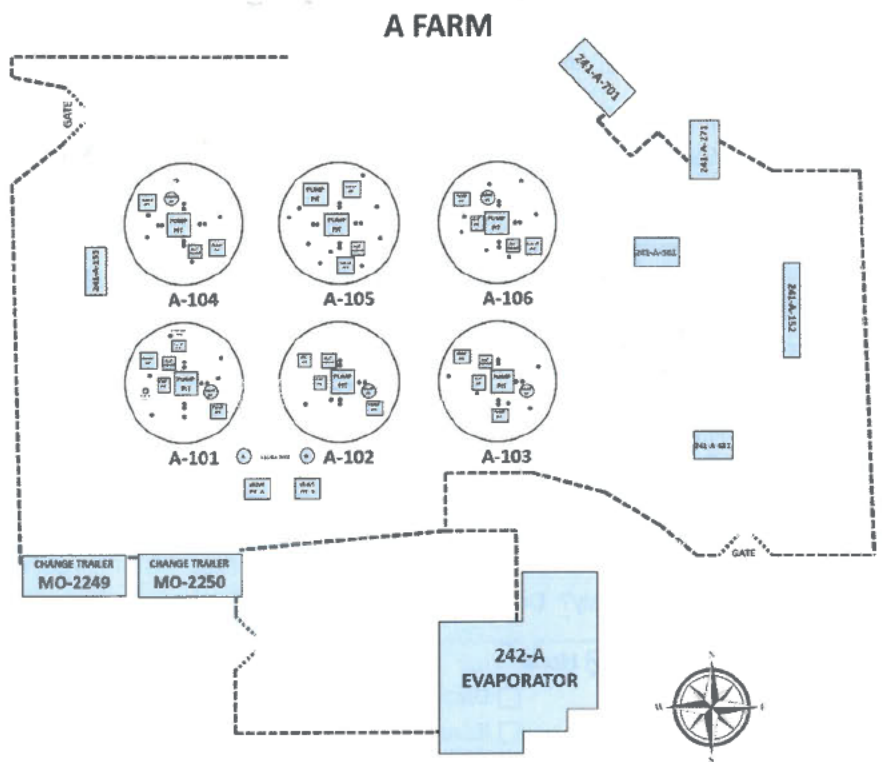
2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM. If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

ODOR/VAPOR RESPONSE CARD - 241 A FARM

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at [REDACTED]
3. Complete both pages of this form and include as many details as possible, including:
 - a. Approximate location, see map at right;
 - b. Wind direction, speed and description, such as stable or gusty wind;
 - c. Environmental conditions, such as hot, cold, windy, rainy;
 - d. Other work or contractors in the area;
 - e. Anything else you think is relevant.
4. Provide the completed card to your Supervisor*, Industrial Hygiene*, Union Safety Representative* or the CSM.

* If received by Supervisor, IH, or Union Safety Representative, the Supervisor/IH/ Union-SR will ensure card it is provided to the CSM.



ODOR/VAPOR RESPONSE CARD - 241 ~~A FARM~~

1. Complete below information and map (Page 1).

- Date and time of event: 6.20.23
- Check Applicable:
 Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____
- Your name and the work you were performing:
[REDACTED] - SHOP work outside
- Other Work Underway? Describe:
NA
- Location of event (mark area on map and wind direction):
AE Electrical Shop
- Name(s) of others in or near the affected area:
[REDACTED]
- Was Industrial Hygiene present, who?
NA
- Describe the odor:
 Sweet Sour Smoky Septic/Sewer Musty Rotten
 Metallic Onion Earthy Ammonia Citrus Solvent
 Other (describe): _____
- Is source known/likely? Describe:
NA
- Your symptoms? None
 Headache Dizziness Nausea Cough Fatigue
 Weakness Sore Throat Difficulty Breathing Eye Irritation Rash
 Itch Tingling Numbness Taste
 Other (describe): _____

2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM. If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

ODOR/VAPOR RESPONSE CARD - 241 A FARM

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at [REDACTED]
3. Complete both pages of this form and include as many details as possible, including:
 - a. Approximate location, see map at right;
 - b. Wind direction, speed and description, such as stable or gusty wind;
 - c. Environmental conditions, such as hot, cold, windy, rainy;
 - d. Other work or contractors in the area;
 - e. Anything else you think is relevant.
4. Provide the completed card to your Supervisor*, Industrial Hygiene*, Union Safety Representative* or the CSM.

* If received by Supervisor, IH, or Union Safety Representative, the Supervisor/IH/ Union-SR will ensure card it is provided to the CSM.

