

Hanford Tank Waste Operations and Closure
EVENT SUMMARY

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:

1. **Project:** Operations Field Support- Sampling Operations **2. Report Date:** 03/04/2025

3. **Investigation Title:** C-67 and TF-AOP-015 Response at MO-2259

4. **Investigation Report Number:** EIR-2025-028

5. **Responsible Manager:** [REDACTED]

6. **Event Investigator:** [REDACTED]

7. **Area / Building / Location:** 200E/MO-2259/AP Change Trailer

8. **Date and Approximate Time of Event:** **Date:** 02/12/2025 **Time (military):** 0900 hours

9. **Associated Action Request (AR) Number:** ITDC-AR-2025-1044

10. **Associated Occurrence Report Number (if applicable):** N/A

11. **Event Investigation Meeting Held:** Yes [] or No [X] **Date:** N/A **Time (military):** N/A

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

Nuclear Chemical Operators were on standby for Work Order (WO) #1110708, "241-AP-102 GRAB SAMPLE" in the 241-AP Farm change trailer MO-2259.

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

- H2C Nuclear Chemical Operator (NCO) - 2

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

On 02/12/2025 at approximately 0900 hours, a Nuclear Chemical Operator (NCO) 1 was on standby in the 241-AP Farm Change Trailer MO-2259 when their Ventis Pro5 Personal Ammonia Monitor (PAM) began alarming at 6 Parts Per Million (ppm). There were approximately 20 PAMs in the area at the time. No other PAMs were alarming. An Industrial Hygiene Technician (IHT) in the area inspected the alarming PAM and observed the PAM drop back down to an expected background reading. Shortly after the IHT gave NCO 1 their PAM back, it began alarming again at 6 ppm. The IHT instructed NCO 1 to exchange the PAM. At approximately 1000 hours, NCO 1 was walking back to the change trailer after exchanging their PAM when they encountered a stronger than normal odor described as "burnt matches" forty feet Northeast of the 241-AP Farm change trailer. NCO 2, in the same area, confirmed they also smelled the odor.

At approximately 1000 hours, the Field Work Supervisor (FWS) contacted the Central Shift Manager (CSM) who and initiated TF-AOP-015, Response to Personal Ammonia Monitor Alarm. The FWS was instructed to place work in a safe configuration and perform an orderly egress. Access was restricted to the 241-AP Farm change trailer.

At 1132 hours the CSM, receiving information of a stronger than normal odor, initiated response actions per TFC-OPS-OPER-C-67, Response to Stronger than Normal Odors. The Northeast exterior of the 241-AP Farm change trailer was posted "Restricted Access." The two workers reported experiencing no symptoms and declined a precautionary medical evaluation.

At 1402 hours, response actions were completed and TF-AOP-015 and TFC-OPS-OPER-C-67 were exited. Response did not indicate further actions were necessary regarding worker safety and health occupational exposure limits. Access was restored to the exterior and interior of the 241-AP Farm Change Trailer MO-2259.

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

- The odor event occurred inside the 241-AP Farm change trailer MO-2259 located in the 200 East Area of the Hanford site.
- At the time odors were reported at the 241-AP Farm change trailer MO-2259 the workers were wearing Level D Personal Protective Equipment (PPE) and in a work location that was posted as a radioactive material area (RMA). The personnel were not in an area that required the use of respiratory protection.
- The Hanford Site Meteorological Station #6 in the 200 East Area 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 0900 hours on 02/12/2025 for the PAM alarm event:
 - Wind Speed: 3.4 miles per hour (mph)
 - Wind Direction: 100° (winds out of Northeast)
 - Mixing Height: 140 feet above grade
 - Stability Class: D (neutral conditions)
 - Temperature: 12.3° F
 - Barometric Pressure: 29.5 inches mercury (Hg)
 - Relative Humidity: 72
 - The Hanford Site Meteorological Station #6 and DFAS dashboard indicated the following weather conditions at 1000 hours on 02/12/2025 for the odor event:
 - Wind Speed: 2.0 miles per hour (mph)
 - Wind Direction: 137° (winds out of Northeast)
 - Mixing Height: 140 feet above grade
 - Stability Class: D (neutral conditions)
 - Temperature: 18° F
 - Barometric Pressure: 29.5 inches mercury (Hg)
 - Relative Humidity: 60

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

Due to access restriction at the 241-AP Farm change trailer MO-2259 an impact to operational capabilities occurred until response actions could be completed and access restored.

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

- CSM initiated TF-AOP-015 response actions and restricted access to 241-AP Farm change trailer MO-2259.
- The CSM made required TF-AOP-015 notifications.
- The workers were offered precautionary medical evaluation. The workers declined medical evaluation.
- The DOE Facility Representative was notified of the event.
- The CSM initiated TFC-OPS-OPER-C-67 response actions.
- The CSM made required TFC-OPS-OPER-C-67 notifications.
- IHTs took readings outside of and throughout MO-2259 per survey plan IHSP-POE-MULTI-TFCOOPSOPERC67, *Industrial Hygiene Odor Evaluation*.
- Event Investigation EIR-2025-028, C-67 and TF-AOP-015 Response at MO-2259, was initiated.

18. Compensatory Actions Taken:

None.

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19. Remedial Actions Taken:

None.

20. Key Elements of the Investigation: (Key investigation points)

- To summarize the conclusions of the Industrial Hygiene Event Investigation Report, IHIR-00114 "C-67 and TF-AOP-015 Response at MO-2259" review of the DFAS application, weather details and chemical details dashboard for the reported time of the event, indicate the cause of the PAM alarm and odors reported was unlikely to be from Tank Farm Exhauster emissions.
- During the clearance of the exterior and interior of MO-2259 a MultiRAE Direct Reading Instrument (DRI) with a 10.6 eV photoionization detector (PID) was utilized to look for Volatile Organic Compounds (VOCs), Ammonia and Sulfur Dioxide. The response team monitored where individuals encountered odors and the PAM alarm. DRI monitoring was completed in the lift station near the corner of 4th St. and Canton Pl., inside MO-2259 and outside of MO-2259 along the North 241-AP Farm fence. All readings were below the DRI detection levels. All DRI instruments passed post-function test.
 - DRI monitoring readings:
 - Ammonia: less than 1 ppm
 - Volatile Organic Compounds: less than 0.010 ppm
 - Sulfur Dioxide: less than 0.1 ppm
- The DRI monitoring 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.

Review of DFAS at the approximate time of PAM alarm event on 02/12/2025 at 0900:

- Wind Speed: 1.6 mph
- Wind Direction: 100°
- Mixing Height: 140 feet above grade
- Stability Class: D (neutral conditions)

Review of DFAS at the approximate time of odor event on 02/12/2025 at 1000:

- Wind Speed: 2.0 mph
- Wind Direction: 137°
- Mixing Height: 140 feet above grade
- Stability Class: D (neutral conditions)

Vapor Monitoring Detection System (VMDS) exhauster ammonia readings at the approximate time of PAM event on 02/12/2025 at 0857:

- POR518 (241-A): 1.79 ppm
- POR519 (241-A): 3.28 ppm
- POR126 (241-AX): 0 ppm
- POR127 (241-AX): N/A
- 241-AW: 0 ppm
- 241-AP: 5.881 ppm

VMDS exhauster ammonia readings at the approximate time of odor event on 02/12/2025 at 1000:

- POR518 (241-A): 1.73 ppm
- POR519 (241-A): 3.13 ppm
- POR126 (241-AX): 0 ppm
- POR127 (241-AX): N/A
- 241-AW: 0 ppm

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- 241-AP: 15.93 ppm
- The 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.

The DFAS dashboard provides an Exhauster Potential Exposure Zone (PEZ) Model of the exhaust plumes at the reported time of the vent based on the wind speed, wind direction, mixing height and stability class. The location where the odor was encountered appeared to be within the PEZ of AN Exhauster, 702-AZ Exhauster, POR-127 Exhauster, POR-126 Exhauster, POR-518/POR-519 Exhauster, AW Exhauster and AP Exhauster (Refer to Figure 1). The approximate distances MO-2259 is located from these are:

AN Exhauster:1500 feet
702-AZ Exhauster:1200 feet
POR-127 Exhauster:950 feet
POR-126 Exhauster:850 feet
POR-518/POR-519 Exhauster:650 feet
AW Exhauster:500 feet
AP Exhauster:350 feet

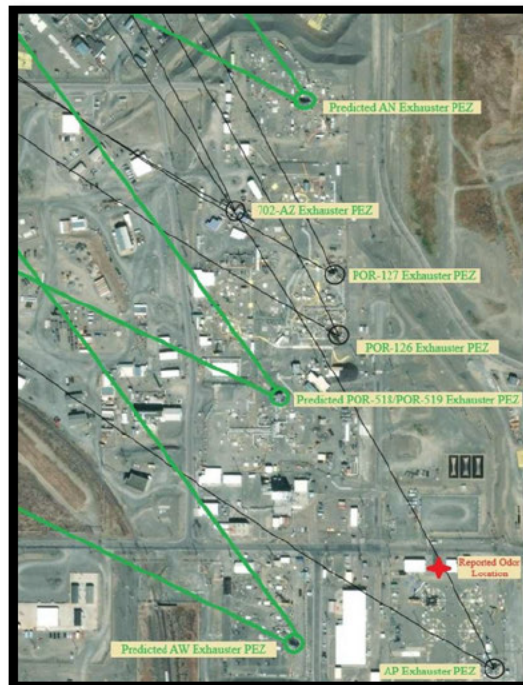


Figure 1: Exhauster Potential Exposure Zone Model regarding the Odor location

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The approximate location and distance where the odor was encountered from the Tank Farm exhauster provides additional indication the odor source was unlikely to be resultant of Tank Farm emissions.

Ventis Pro 5 Equipment Investigation:

- o An Industrial Hygiene Equipment Investigation, IHEI-00114 "AOP-015 inside AP Farm" took place to review the Ventis Pro 5 that alarmed during the event. A review of the instrument full span reserve, alarm and data logs, as well as calibration and bump history was conducted. It was noted that positive readings appeared to coincide with increases in temperature when the worker transversed from an outdoor environment to an indoor environment. The degree of sensitivity with the action was unusual. A physical inspection of the Ventis pro 5 was performed to look for damage and configuration irregularities that could have contributed to the alarm event. While no obvious damage was observed, the instrument was found to be abnormally sensitive to having the passive inlet covered. The instrument alarmed as high as 9 ppm after about 4 seconds of covering the inlet then immediately dropped back to zero once uncovered. The instrument was removed from service due to the higher-than-normal readings during the temperature acclimation period.
- Nearby potential odor sources:
 - o 2607-E12: Septic system for several surrounding facilities; pumps, piping, and other associated structures moved to 2 feet below grade and filled with Controlled Density Fill (CDF), one existing tank remains in place for emergency storage; located on the NE corner of Canton Pl and 4th St.
 - o In the area where the odor was encountered there was a large mobile diesel generator that is occasionally used to power the emergency safety shower outside of 241-AP Farm. The generator was on at the time the odor was encountered. The generator was fueled the morning of the event. If any drops of fuel fall on the generator when fueling it can give off a "burnt match" smell when the generator is on. There are drip pans placed underneath the mobile diesel generator for the potential of a drop or a leak of diesel while the generators are being fueled and operating. The nearby mobile diesel generator is a potential odor source.
- In conclusion the DRI monitoring that was performed during response actions did not indicate further action was necessary to protect workers safety and health. Based on the review of the DFAS application, weather details, and chemical details dashboard for the reported time of the event indicate the cause of the PAM alarm and odors reported was unlikely to be from Tank Farm Exhauster emissions. This general area has been the location of several odor incidents in the past with varying odor descriptors used. The investigation was not able to determine the source of the reported odors.

21. Positive Aspects Identified:

None.

22. Key Take Aways / Learning Opportunities:

None.

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23. Event Investigation:

- 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.

Responsible Manager Approval:

Name (First, Middle Initial, Last)

CAS Manager Approval:

Name (First, Middle Initial, Last)

Signature / Date

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

Event Title: C-67 and TF-AOP-015 Response at MO-2259	IHIR Number: IHIR-00114
	IHEI Number: IHEI-00002

Date: 2/12/2025	Time: 0900	Location: Inside and outside MO-2259, non-farm (AP Change Trailer)
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Event Summary and Timeline:

Event Summary:

- Around 0900 on 2/12/2025, WRPS NCO exited AP Farm into the AP Change Trailer (MO-2259) and PAM began to alarm at 6 ppm. IHT in change trailer had a MultiRAE Pro but it was not turned on, instructed worker to return PAM and get a new one. NCO returned to MO-2259 and encountered a "burnt match smell" outside. Nearby worker confirmed that they were experiencing the odor as well. CSM and IH notified of odor. No symptoms were experienced by any individuals and all declined precautionary medical surveillance.
- Access to the area was restricted at 1132 and a response plan generated.
- Sweeps were conducted at lift station near Canton Pl and 4th St, inside MO-2259, and along the outside of AP Farm north fence.
- Results of DRI monitoring:
 - o Ammonia - Less than detectable (<1 ppm)
 - o Volatile Organic Compounds (10.6 eV PID) - Less than detectable (<0.01ppm)
 - o Sulfur Dioxide - Less than detectable (<0.1 ppm)
 - o Post use function test completed at 1346 2/12/2025
- At the time of the events, winds were coming from the East and Southeast.
- Access to area was restored at 1402.

Field Response Timeline:

- 1055 Production Operations East Industrial Hygienist (POEIH) arrives at Central Shift Office (CSO)
- 1103 Retrieval West Operations Industrial Hygienist (RWOIH) and Level 3 Manager arrive at CSO
- 1114 Personal Ammonia Monitor (PAM) that alarmed arrived at CSO
- 1117 Industrial Hygiene Technician (IHT) says that multiple PAMs were drifting below alarm limits, some negative values
- 1121 Meteorological Data is pulled from Station 6 for 0900:
- Wind: NE @ 3.4 mph
 - Temperature: 12.3°F
 - Barometric Pressure: 29.5 in/Hg
 - Relative Humidity: 72%
- 1122 Data Fusion Advisory System (DFAS) checked for current weather conditions:
- Stability Class - D (neutral conditions)
 - Wind Speed - 3.3 mph
 - Wind Direction - 154°
 - Mixing Height - 140 feet above grade
- 1125 CSM declares C-67 entered
- 1126 Vapor Monitoring Detection System (VMDS) data pulled for 0857 (see Additional Information)
- 1129 Level 3 Manager requested IHT support
- 1138 Affected Worker arrived at CSO and filled out Odor Vapor Response Card (OVRC)
- 1146 PAM taken to be downloaded
- 1206 IHTs are prepping MultiRAE Pros with Ammonia, Volatile Organic Compounds (VOC), and Sulfur Dioxide sensors
- 1206 Affected Worker #2 arrived at CSO, filling out OVRC
- 1217 CSM confirms that lift station has not been active
- 1230 Attachment A 1/2 signed
- 1233 RWOIH briefed IHTs on:
- Industrial Hygiene Sample Plan (IHSP): IHSP-POE-MULTI-TFCOPSOPERC67
 - Respiratory Protection Equipment (RPE): voluntary use only, declined
 - Monitoring Locations: MO-2259, lift station, and outside north side of AP Farm
 - RWOIH will accompany in field
- 1236 Response team en route
- 1312 RWOIH reports all readings less than detectable, heading to post-function check instruments

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

Event Summary and Timeline:

1346 RWOIH reports that instruments have passed post-function checks
1355 Attachment A 2/2 signed.
1402 SOEN: "Completed TFC-OPS-OPER-C-67 response exterior of MO-2259 and exited TF-AOP-015 for VentisPro 6ppm alarm in MO-2259. All readings were at or below background. Access is being restored to affected areas. CSM."

Sampling/Monitoring Results:

DRI monitoring results in and around area where individuals experienced odors and PAM alarm:

During the response, RWOIH accompanied IHTs using a slow approach to perform DRI monitoring near the following areas:

- Lift station near the corner of 4th St and Canton Pl - no odors
- MO-2259 - no odors
- Outside MO-2259 along north AP Farm fence - no odors

DRI monitoring readings:

- Ammonia: less than 1 ppm
- Volatile Organic Compounds: less than 0.010 ppm
- Sulfur Dioxide: less than 0.1 ppm

*All readings were below DRI detection levels

SWIHD References:

SWIHD DRI Survey:

- 25-00879, "AOP 15/C-67 AP Change Trailer/North of trailer"

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 PAM alarm event on 02/12/2025 @ 0900:

- Wind Speed: 1.6 mph
- Wind Direction: 100°
- Mixing Height: 140 feet above grade
- Stability Class: D (neutral conditions)

Review of DFAS at the approximate time of odor event on 02/12/2025 @ 1000:

- Wind Speed: 2.0 mph
- Wind Direction: 137°
- Mixing Height: 140 feet above grade
- Stability Class: D (neutral conditions)

VMDS exhauster ammonia readings at the approximate time of PAM event on 02/12/2025 @ 0857:

- POR518 (241-A): 1.79 ppm
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Washington River Protection Solutions
INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Additional Information:

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.

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

Nearby potential odor sources:

- 2607-E12: Septic system for several surrounding facilities; pumps, piping, and other associated structures removed to 2ft below grade and filled with Controlled Density Fill (CDF), one existing tank remains in place for emergency storage; located on the NE corner of Canton Pl and 4th St.

Recommendations/Conclusions:

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 and available monitoring data when the events occurred, it is unlikely that the PAM alarm and odors reported by the workers were caused by Tank Farm vapors. DRI monitoring and observations made by RWOIH and IHTs 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. This general area has been the location of several odor incidents in the past with varying odor descriptors used. The investigation was not able to determine the source of the reported odors.

Others:

Event Investigation Report:

- EIR-2025-028, "C-67 and TF-AOP-015 Response at MO-2259"

Associated Documents:

iCAS Number: N/A

EIR Number: EIR-2025-028

Industrial Hygienist:

Print First and Last Name

Industrial Hygiene Level 3 Manager

Print First and Last Name

Industrial Hygiene Level 2 Manager:

Print First and Last Name

Signature / Date

ODOR/VAPOR RESPONSE CARD - 241 AP FARM

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

• Date and time of event: 2/12/25 10:40am

• Check Applicable:

- Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____

• Your name and the work you were performing: 102
[redacted] AP-prep for Grab.

• Other Work Underway? Describe: _____

• Location of event (mark area on map and wind direction): _____

• Name(s) of others in or near the affected area: _____

• Was Industrial Hygiene present, who? YES [redacted]

• Describe the odor:

- Sweet Sour Smoky Septic/Sewer Musty Rotten
 Metallic Onion Earthy Ammonia Citrus Solvent

Other (describe): burnt matches

• Is source known/likely? Describe: _____

• Your symptoms? None

- Headache Dizziness Nausea Cough Fatigue
 Weakness Sore Throat Difficulty Breathing Eye Irritation Rash
 Itch Tingling Numbness Taste

Other (describe): _____

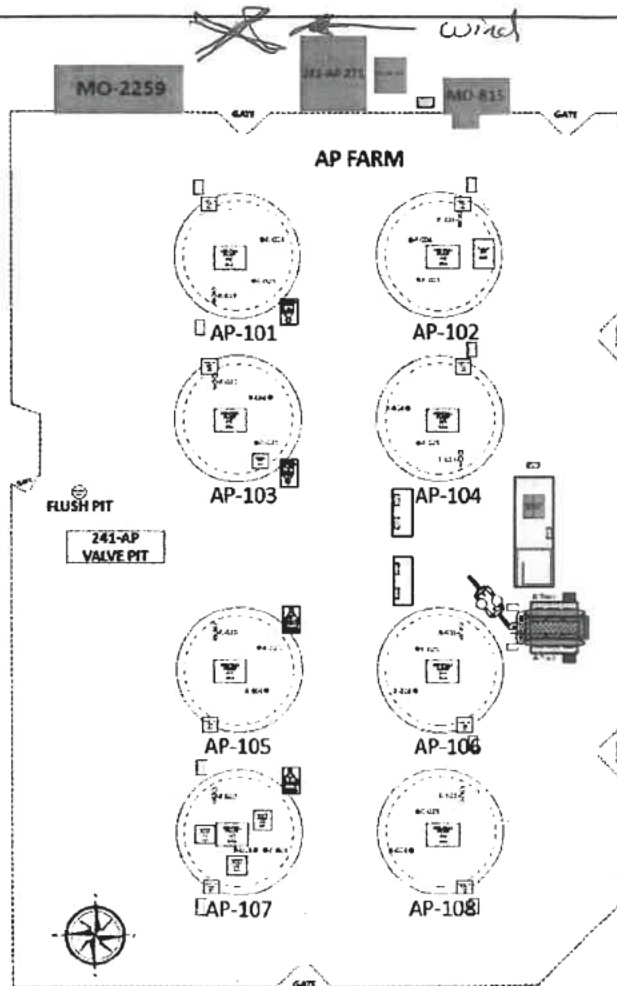
2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM. If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

ODOR/VAPOR RESPONSE CARD - 241 AP FARM

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at (509) 373-2689.
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 AP FARM

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

- Date and time of event: 10:00 am
- Check Applicable:
 Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe):
- Your name and the work you were performing: [Redacted] NCO - walking to TRUCK FROM Change Trailer
- Other Work Underway? Describe: _____
- Location of event (mark area on map and wind direction): In front of MD-815
- Name(s) of others in or near the affected area: _____
- Was Industrial Hygiene present, who? ask if anyone else who was walking out to truck if they could smell they said maybe a little not that I had said something
- Describe the odor: Yes I # WAS ~~in~~ around
 Sweet Sour Smoky Septic/Sewer Musty Rotten
 Metallic Onion Earthy Ammonia Citrus Solvent
 Other (describe): BURNT MATCHES
- Is source known/likely? Describe: _____
- 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.

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Alarms HAPPENED HERE

TRUCK WAS HERE/odor HAPPENED HERE

