

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: Production Operations Date: 03/16/2023

Area/Building/Location: 2025E/200E Approximate Time of Event: 0545 Hours

AR Number: WRPS-AR-2023-1034 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-013 Event Investigator: [REDACTED] under instruction of [REDACTED]

**EVENT SUMMARY PART 1**

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

Effluent Treatment Facility (ETF) Area Manager was performing their daily facility walk down of the 2025E process floor.

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

Personnel that reported experiencing stronger than normal odor:

- ETF Area Manager (WRPS)
- 2 Industrial Hygiene Technicians (WRPS)

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

On 03/16/2023, at approximately 0545 hours, ETF Area Manager encountered a "sweet" like odor while performing a daily facility walk down of the 2025E process floor near Sump Tank 1 (20B-TK-1). It was coincidentally noted that the odor was proximal to Sump Tank 1 (20B-TK-1). The ETF Area Manager exited the 2025E process floor to report the odor to the ETF Shift Operations Manager (SOM) at approximately 0615 hours. Once the ETF SOM was informed, the ETF SOM dispatched 2 Industrial Hygiene Technicians (IHTs) to perform Direct Reading Instrument (DRI) monitoring of the area near Sump Tank 1 (20B-TK-1). During the initial investigation by the 2 IHTs at approximately 0715 hours, they encountered a stronger than normal "chemical" like odor and a reading of 0.5 ppm for sulfur dioxide (occupational exposure level 0.25 ppm 15 minute short-term exposure limit) at the Sump Tank 1 (20B-TK-1) opening. The IHTs were using MultiRAES with an array of sensors, including an electrochemical sensor designed for sulfur dioxide. The IHTs readings dissipated to background levels within "a couple of feet" of the Sump Tank 1 (20B-TK-1) opening.

ETF Area Manager and 2 IHTs reported no symptoms. The workers declined to report to HPMC for precautionary medical surveillance. The CSM received the Odor Response Cards from the workers. On the Odor Response Cards, the ETF Area Manager described the odor as "sweet, earthy and musty," and the IHTs described the odor as "sweet". All 3 workers indicated they had no symptoms on their Odor Response Cards.

Notes:

- The IHT's sulfur dioxide electrochemical sensor was not pre-use function tested prior to being dispatched.
- The wide variety of stronger than normal odors smelled by three workers, as well as the detection of sulfur dioxide by instrumentation, during this period of time, may indicate that the odors may have emanated from multiple sources.

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

Near Sump Tank 1 (20B-TK-1) inside 2025E.

Workers were wearing standard street clothes (which is considered Level D PPE) and were in a work location that is posted as a radiological buffer area (RBA)/radiological material area (RMA). Workers were performing work activities that do not require use of respiratory protection or a personal ammonia monitor (e.g., ToxiRAE Pro or Ventis Pro 5).

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 0545 hours on 3/16/2023:

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**EVENT SUMMARY (Continued)**

Project: Production Operations Date: 03/16/2023

Area/Building/Location: 2025E/200E Approximate Time of Event: 0545 Hours

AR Number: WRPS-AR-2023-1034 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-013 Event Investigator: [REDACTED] under instruction of [REDACTED]

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

- . Wind Speed: 8.05 miles per hour (mph)
- . Wind Direction: 239 ° (out of West-South West)
- . Mixing Height: 140 feet above grade
- . Stability Class: F/G (stable conditions)
- . Temperature: 31.4 ° F
- . Barometric Pressure: 29.603 inches Hg
- . Humidity: 72.28%

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

Access restricted within about 25-30ft around the affected area.

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

- CSM initiated TFC-OPS-OPER-C-67, restricted access about 25-30 feet around the affected area and issued Shift Office Event Notification (SOEN).
- 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.
- Production Operations Industrial Hygienist and CSM reviewed the DRI readings and determined access restriction will remain in place at a minimum of 3 feet from Sump Tank 1 (20B-TK-1) hatch. CSM issued SOEN for the reduced access restrictions based on the DRI readings.
- Event Investigation EIR-2023-013, "C-67 Response at ETF," was initiated.

**Notifications Already Made** (Time and personnel notified):

[0745 hours] - ETF SOM reported ETF Area Manager and IHTs smelled a "sweet/chemically" odor to CSM.  
[0751 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 around Sump Tank 1 at ETF. Areas has been restricted."  
[0809 hours] - CSM contacted the on-call DOE Facility Representative and informed them of TFC-OPS-OPER-C-67 event initiation.  
[0811 hours] - CSM provided TFC-OPS-OPER-C-67, Attachment B - Initial Communication Summary email to distribution list "DL - WRPS Odor/Vapor Event Notification".  
[1006 hours]- CSM provided TFC-OPS-OPER-C-67, Attachment C - Follow-up Event Summary to email to distribution list "DL - WRPS Odor/Vapor Event Notification".  
[1011 hours] - TFC-OPS-OPER-C-67 response were complete but access restriction will remain in place. CSM issued SOEN "TFC-OPS-OPER-C-67 for odors identified around Sump Tank 1 at ETF response complete. Areas within three feet of the source will remain restricted and controlled by ETF operations".

- 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.

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**EVENT SUMMARY (Continued)**

Project: Production Operations Date: 03/16/2023

Area/Building/Location: 2025E/200E Approximate Time of Event: 0545 Hours

AR Number: WRPS-AR-2023-1034 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-013 Event Investigator: [REDACTED]

**Responsible Manager:**

[REDACTED] \_\_\_\_\_ Digitally signed by [REDACTED]  
Print First and Last Name Signature / Date

**CAS Manager:**

[REDACTED] \_\_\_\_\_ [REDACTED] \_\_\_\_\_  
Print First and Last Name Signature / Date

**EVENT SUMMARY PART 2**

**Key Elements of the Investigation (Key investigation points):**

To summarize the conclusions of the Industrial Hygiene Event Investigation Report, IHIR-00065 "TFC-OPS-OPER-C-67 at ETF Sump Pump 20B-TK-1", although the odors could not be definitively identified, DRI monitoring performed during odor investigation and TFC-OPS-OPER-C-67 response actions did not indicate further actions were necessary with regard to a worker safety and health occupational exposure limit standpoint. The following considerations support the IHIR-00065 conclusion:

- (1) In close proximity to the reported odor location, auxillary oil pump (60I-P-07) had the oil replaced prior to the odor event. TFC-OPS-OPER-C-67 investigation noted residual oil in a drip pan located below auxillary oil pump (60I-P-07).
- (2) Follow-up with one of the employees who initially reported the odor identified the smell as "oil or coolant burning on a hot engine".
- (3) A Direct Reading Instrument (DRI) equipped to monitor ammonia, volatile organic compounds (10.6eV lamp and 11.7eV), hydrogen sulfide, and sulfur dioxide was utilized during TFC-OPS-OPER-C-67 response. Monitoring demonstrated no significant accumulation of analytes that are normally attributed to the odor descriptors reported.
- (4) The initial DRI monitoring and field response DRI monitoring, following initiation of TFC-OPS-OPER-C-67, indicated source concentrations of sulfur dioxide within Sump Tank 1 (20B-TK-1). Although, concentrations readily dissipated to anticipated background levels 2-3 feet from the Sump Tank 1 (20B-TK-1) hatch opening. No sulfur dioxide concentrations were identified within the worker breathing zone during initial or subsequent follow-up actions.
  - Source readings taken at the Sump Tank 1 (20B-TK-1) opening, at approximately 0715 hours, indicated a sulfur dioxide concentration of 0.30 ppm. Sulfur dioxide is a potential decomposition product of sulfuric acid in water, and its presence in the sump tank in low concentrations is not unexpected.
  - Though source sulfur dioxide concentrations were identified, sulfur dioxide is described as a metallic or strong, pungent odor. Which is not consistent with the odor descriptors reported. Regardless, an interim 3-foot restricted access boundary was established until an engineering control (such as closing the Sump Tank 1 (20B-TK-1) hatch opening or operating the Vessel Off Gas (VOG) system) was implemented and validated.

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

N/A

**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.

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**EVENT SUMMARY (Continued)**

Project: Production Operations Date: 03/16/2023

Area/Building/Location: 2025E/200E Approximate Time of Event: 0545 Hours

AR Number: WRPS-AR-2023-1034 Responsible Manager: [REDACTED]

EIR Number: EIR-2023-013 Event Investigator: [REDACTED] under instruction of [REDACTED]

- 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 Industrial Hygiene Event Investigation Report, IHIR-00065 "TFC-OPS-OPER-C-67 at ETF Sump Pump 20B-TK-1" form the basis that further investigation will provide no additional information or operational benefit.

**Responsible Manager:**

[REDACTED] [REDACTED] Digitally signed by [REDACTED]  
Print First and Last Name Signature / Date

**CAS Manager:**

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

Washington River Protection Solutions  
**INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT**

<b>Event Title:</b>  <p style="text-align: center;">TFC-OPS-OPER-C-67 at ETF Sump Pump 20B-TK-1</p>	<b>PER Number:</b>  <p style="text-align: center;">N/A</p>
<b>IHIR Number:</b>  <p style="text-align: center;">IHIR-00065</p>	

<b>Date:</b> 03/16/2023	<b>Time:</b> 1030	<b>Location:</b> Effluent Treatment Facility Process Floor (2025E, 20B-TK-1)
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**Event Summary and Timeline:**

**Event Summary:**  
 At approximately 0545 on 03/16/2023, a worker walking in the area of Sump Tank 1 (20B-TK-1) encountered a "sweet" odor and attributed it to the sump. At the morning meeting, a courtesy surveillance of the area was requested before work evolution to clean the sumps, WO#941832. At approximately 0715 IHTs encountered a similar odor during the requested surveillance near Sump 1. The routine surveillance does not call for SO<sub>2</sub> sensors and therefore the SO<sub>2</sub> was not pre-function checked. All other sensors were pre-functioned checked as part of the routine surveillance. A reading of 0.5ppm Sulfur Dioxide (SO<sub>2</sub>) was obtained at the sump hatch opening. Access was restricted to approximately 25-30ft around the affected area by ETF SOM. No symptoms were reported by either employee that reported smelling the odor.

**Field Response Timeline:**  
 0733 ETF Industrial Hygiene Technician contacted Production Ops. East Industrial Hygienist about odors and readings.  
 0738 Production Ops. East Industrial Hygienist arrived at Central Shift Office  
 0739 Production Ops. East Industrial Hygienist contacted Level 3 Prod. Ops East Safety and Health Manager. ETF Shift Operation Manager contacted and had Central Shift Office notified.  
 0745 ETF Shift Operation Manager contacted Central Shift Manager of odor location, restricted access zone, and current readings.  
 0748 Production Ops. East Industrial Hygienist contacted ETF Industrial Hygiene Technician Supervisor.  
 0751 SOEN alert Initiated EIR-2023-013 "C-67 Response at ETF" POC: [REDACTED] CSM.  
 0753 Production Ops. East Industrial Hygienist check DFAS (current): 6.9mph wind from 289° WNW with mixing height of 141 feet above grade.  
 0758 ETF IHT Supervisor contacted Production Ops. East Industrial Hygienist and IHTs declined HPMC and began preparing DRIs.  
 0801 Central Shift Manager contacted ETF affected worker. Worker declined HPMC, sent OVRC to Central Shift Office.  
 0804 ETF Industrial Hygienist arrives at Central Shift Office.  
 0809 Level 3 Production Ops. East Safety and Health Manager arrives at Central Shift Office.  
 0809 Central Shift Manager briefs FAC Rep  
 0811 Attachment B communicated  
 0815 IH performed calculations to apply administrative controls in response plan for entering the area based on the readings of SO<sub>2</sub> previously obtained. Controls included calculated stay times of 5 mins if readings equaled preliminary indication of 0.5 ppm SO<sub>2</sub> and use of extension wand with MultiRae.  
 0825 Central Shift Manager contact ETF Radcon for RWP. Instructed to use LE-003 for investigative actions.  
 0835 Central Shift Manager and Production Ops. East Industrial Hygienist signed Attachment A Sh 1 of 2  
 0838 ETF IHTs arrive at Central Shift Office  
 0839 Production Ops. East Industrial Hygienist brief ETF IHT on response plan. Instructed to use IHSP-POE-Multi-TFC-COPS-OPER-C67 and to monitor for NH<sub>3</sub>, VOC (10.6eV lamp), VOC (11.7eV no action limit, H<sub>2</sub>S, SO<sub>2</sub>.  
 0842 Responding ETF Industrial Hygienist and ETF IHTs depart from Central Shift Office to initiate response actions.  
 0851 Production Ops. West/ETF Level 3 Safety and Health Manager contacted Production Ops. East Industrial Hygienist with questions on response plan.  
 0901 ETF Industrial Hygienist contacted Production Ops. East Industrial Hygienist with an update of source of 0.3ppm SO<sub>2</sub>.

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**INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT(Continued)**

**Event Summary and Timeline:**

0903 PA POC contacted Central Shift Manager EIR-2023-013  
0910 ETF Industrial Hygienist contacted Production Ops. East Industrial Hygienist with an update of 11.7eV DRI reading of 0.06ppm. All readings below detection limit at 3 feet from source or greater.  
0931 ETF IHT contacted Production Ops. East Industrial Hygienist that they were en route to post DRIs.  
0938 Central Shift Manager contacted ETF Shift Operation Manager to discuss C-67 expectations.  
Follow up actions include:

- Restricted access minimum 3 feet from source
- Await DRI results

ETF Shift Operation Manager discusses pulling little giant out of Sump 1 20B-TK-1 out and close hatch. Production Ops. East Industrial Hygienist contacted ETF Shift Operation Manager that an IHT will be required to monitor.  
0953 Central Shift Manager notified EIR and DOE FR  
0957 ETF IHT arrived at Central Shift Office to inform that DRIs passed their post test.  
1004 Central Shift Office and Production Ops. East Industrial Hygienist signed Attachment A. Sh. 2 of 2.  
1011 SOEN "TFC-OPS-OPER-C-67 for odors identified around Sump Tank 1 at ETF response complete. Areas within three feet of the source will remain restricted and controlled by ETF operations. CSM" sent out.

**Sampling/Monitoring Results:**

Direct Reading Instrument Monitoring Results at 0901:

- Area around Sump 1 20B-TK-1 were investigated during response.
- Readings during response were as followed:
  - Ammonia: 0.00 ppm
  - VOC(10.6eV lamp): 0.090 ppm
  - VOC(11.7eV no action limit): 0.06ppm
  - H<sub>2</sub>S: 0.00ppm
  - SO<sub>2</sub>: 0.30 ppm

Refer to IHIR-00065 Attachment B for Response Map, and Response Pictures.

**SWIHD References:**

Event Response Site Wide Industrial Hygiene Database Direct Reading Instrumentation (DRI) Survey:

- #23-01613 "TFC-OPS-OPER-C-67 at ETF process floor"

**Additional Information:**

Respiratory Protective Equipment was not prescribed or worn for Response Actions. Monitoring equipment, including a MultiRae, a PPBRae3000, and a wand, were used to monitor the affected area before and while entering. There was no SO<sub>2</sub> found in any worker breathing zone on initial response or subsequent follow up response actions. Engineered controls (extension wand) and Administrative controls (stay times based on found conditions) were incorporated in response action plan.

Effluent Treatment Facility Industrial Hygienist and Industrial Hygiene Technicians performed a walk down of the Effluent Treatment Facility Process Area 20B-TK-1 on 03/16/2023 at 0853 following the restriction by Effluent Treatment Facility Operations. Walk down consisted of the area immediately surrounding 20B-TK-1 and the established boundary around it. A faint "sweet" smell was described by the Industrial Hygiene Technicians who also originally noticed the smell but noted it was less observable than before. Performing DRI monitoring directly inside 20B-TK-1 hatch resulted in SO<sub>2</sub> reading of 0.30ppm. No SO<sub>2</sub> readings were detected outside of 3 feet from the hatch. All other analytes were below detectable levels.

It was noted and discovered that at the source, there was a hatch that was open with a sump hose preventing hatch from being closed. During standard operating conditions this hatch is reportedly closed.

Area was left as restricted access 3 feet around the confirmed odor source.

**Recommendations/Conclusions:**

The results of DRI monitoring demonstrated no significant accumulation of analytes that would normally be attributed to a "sweet smelling" odor, as was initially reported.

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**INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT**(Continued)

**Recommendations/Conclusions:**

SO<sub>2</sub> was detected and the source found and the following recommendations for the source of SO<sub>2</sub> will be implemented.

Maintain 3 foot restricted access boundary until an engineering control can be put in place and can be validated. This may include:

- Operating the VOG
- Closing sump hatch

**Other:**

Entry into the restricted access area will require specific controls based on the work being performed until the restriction can be lifted.

Additional investigation revealed that auxiliary oil pump 60I-P-07, which is in close proximity to Sump #1, recently had oil replaced in the quantity of 30 to 40 gallons. Visual inspection of the pump revealed residual oil in a drip pan located below the pump. Follow up with one of the employees who initially reported the odor identified the smell as that of "oil or coolant burning on a hot engine" although the source of the odor cannot be definitively identified as the residual oil.

**Industrial Hygienist:**

 _____	 _____
<i>Print First and Last Name</i>	<i>Signature / Date</i>

**Industrial Hygiene Level 2 Manager:**

 _____	 _____
<i>Print First and Last Name</i>	<i>Digitally signed by</i> <i>Signature / Date</i>

## ODOR/VAPOR RESPONSE CARD

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

- Date and time of event: 3/16/2023 @ ~0545
- Check Applicable:  
 Odor     Ammonia Alarm (6 ppm)     Ammonia Alarm (12 ppm)     Alarm (other - describe): \_\_\_\_\_
- Your name and the work you were performing:  
[REDACTED] - Performing walk through of Process Floor at 2025-E
- Other Work Underway? Describe:  
No other work in process at the time
- Location of event (mark area on map and wind direction):  
Inside 2025-E Process Floor near sump 1
- Name(s) of others in or near the affected area:  
No other personnel were in the area
- Was Industrial Hygiene present, who?  
Not present at the time but were requested to monitor upon their arrival
- Describe the odor: to work on 3/16/23 day shift  
 Sweet     Sour     Smoky     Septic/Sewer     Musty     Rotten  
 Metallic     Onion     Earthy     Ammonia     Citrus     Solvent  
 Other (describe): \_\_\_\_\_
- Is source known/likely? Describe:  
Suspect odor was from sump 1 due to location and status of VOG system (shut down)
- 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

### Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM),  
[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

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

- Date and time of event: 3-16-23 728
- Check Applicable:  
 Odor     Ammonia Alarm (6 ppm)     Ammonia Alarm (12 ppm)     Alarm (other - describe): \_\_\_\_\_
- Your name and the work you were performing: \_\_\_\_\_
- Other Work Underway? Describe:  
NO IHT Work
- Location of event (mark area on map and wind direction):  
Indoor Process Floor Sump-1
- Name(s) of others in or near the affected area: \_\_\_\_\_
- Was Industrial Hygiene present, who? \_\_\_\_\_
- Describe the odor:  
 Sweet     Sour     Smoky     Septic/Sewer     Musty     Rotten  
 Metallic     Onion     Earthy     Ammonia     Citrus     Solvent  
 Other (describe): \_\_\_\_\_
- 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

### Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM),  
[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

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

- Date and time of event: 0728 3/16/23
- Check Applicable:  
 Odor     Ammonia Alarm (6 ppm)     Ammonia Alarm (12 ppm)     Alarm (other - describe): \_\_\_\_\_
- Your name and the work you were performing: [REDACTED] IHT work
- Other Work Underway? Describe: no [REDACTED]
- Location of event (mark area on map and wind direction): Swamp 1
- Name(s) of others in or near the affected area: [REDACTED]
- Was Industrial Hygiene present, who? \_\_\_\_\_
- Describe the odor:  
 Sweet     Sour     Smoky     Septic/Sewer     Musty     Rotten  
 Metallic     Onion     Earthy     Ammonia     Citrus     Solvent  
 Other (describe): \_\_\_\_\_
- 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

### Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM),  
[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.