

Title: Investigation of TF-AOP-015 West of A-Farm					
EIR: EIR-2019-054 "Investigation of TF-AOP-015 Event West of A-Farm"			PER: WRPS-PER-2019-2515		
Date: 12/30/2019		Time: 0815		Location: West of A-Farm at Vehicle Gate	
Number of Workers Involved: 3		Odor Response Card filled out: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> How many? 3			
Symptoms: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Sampling Results #: 19-12094			
Medical Evaluation Offered: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Medical Evaluation Declined: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (3 of 3)			
Return to Work Status					
Number of workers returned to work without restriction			N/A		
Number of workers returned to work with restriction			N/A		
Number of workers referred for further evaluation			N/A		
Transported to Site Occupational Medical Services (HPMC) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			Odor Description: Cleaning solution, bleach		
MSA Activities: None. Biological/Herbicide <input type="checkbox"/> Septic Service <input type="checkbox"/> Other: N/A			Waste disturbing activities or Tank work in adjacent area: Yes <input type="checkbox"/> Activity or work released _____ No <input checked="" type="checkbox"/>		
Meteorological Data					
Time:	Weather Station #:	Speed: (MPH)	Direction: (N/S/E/W)	Temperature: F/C	Barometric Pressure (steady/rising/falling):
0815	6	3 MPH	From S	34° F	29.72" Mercury and rising
Event Summary & Timeline					
<p>At approximately 0815 on December 30, 2019, three (3) workers encountered a "cleaning solution, bleach" odor west of the 241-A vehicle gate outside of the tank farm's perimeter fencing. The three workers declined precautionary medical evaluation after reporting odors at MO2255 and none reported symptoms. The facility entered and exited TF-AOP-015 for a response to reported odors.</p> <p>At the time that the odors were reported the workers were preparing to perform work on a cold OAT (operational acceptance test) for the A-farm exhauster and were not in an area that required use of respiratory protection. No Industrial Hygiene Technician (IHT) was present. All workers were instructed to leave the area. Access to the area was restricted.</p> <p>The workers completed/submitted odor response cards and confirmed that they did not want medical evaluation at the onsite medical provider, HPMC.</p> <p>Industrial Hygiene Technicians (IHTs) responded to the area and took direct reading instrument (DRI) readings and a bag sample. DRI readings were below action levels. Sample results supported restoring access to the affected area. TF-AOP-015 was exited.</p> <p>No source was identified. DRI readings and the results of the bag samples were less than detectable and based on interview nothing was occurring at the location that could have been a possible source.</p> <p>No event investigation meeting was held.</p>					

Event Timeline

0821: Production Operations Central Shift Manager was contacted by field staff about odors.

0836: Shift Operations Event Notification” “Entered TF-AOP-015 for odors reported on the west side of A-farm. Access to the A-Farm west vehicle gate is restricted. CSM”

0837: Production Shift Operations Functional Area Manager contacts Production Operations Industrial Hygiene Manager to inform of TF-AOP-015 entry.

0838: Production Operations Industrial Hygienists arrive at Central Shift Office and are briefed by Production Shift Operations Functional Area Manager. Three (3) workers detected a “bleach/cleaner” odor. No symptoms reported.

0840: Odor Response Cards arrive at Central Shift Office.

0840: Production Operations Central Shift Manager requests affected workers populate the map portion of the Odor Response Cards as well.

0840: Production Operations Shift Industrial Hygiene Technician Supervisor contacts Production Operations Lead Industrial Hygiene Technician to request initialization of OHIO Lumex and Thermo Scientific MIRAN SaphiRe.

0844: Production Operations Industrial Hygiene Technicians arrive at Central Shift Office.

0849: Production Operations Shift Industrial Hygiene Technician Supervisor notifies Production Operations Industrial Hygienist that the INFICON HAPSITE ER Chemical Identification System is being initialized by Industrial Hygiene Programs Industrial Hygiene Technician Supervisor.

0850: Production Operations Shift Industrial Hygiene Technician Supervisor briefs Production Operations Industrial Hygiene Technicians on response actions:

- Respiratory protection equipment shall be worn in accordance with Respiratory Protection Form TF-AOP-015 Task 2 (3.1.12.3).
- Sampling/monitoring will be conducted in accordance with IHP-09001:
 - Ammonia and Volatile Organic Compound area monitoring will be performed in area indicated on Odor Response Cards
 - Two (2) grab air samples will be collected. One general area and 1 source if Direct Reading Instrumentation indicates a source, or a second general area if no potential sources are indicated.
 - Analyze grab air samples in the OHIO Lumex, Thermo Scientific MIRAN SaphiRe, INFICON HAPSITE ER Chemical Identification System.

0852: Production Operations Industrial Hygiene Technicians depart the Production Operations Central Shift Office to acquire respiratory protection equipment and direct reading instrumentation.

0921: Shift Operations Event Notification: “Access to the outside west side of A-farm is restricted due to reported odors. All personnel stay clear of the area. CSM”

0935: Mission Support Alliance Utilities Supervisor contacts Production Operations Central Shift Manager to report that they were not performing any activities in the vicinity of the reported odors at the time of the event.

0941: Production Operations Shift Industrial Hygiene Technician Supervisor contacts Production Operations Industrial Hygienists with initial field results:

- Ammonia was less than detectable [less than one (1) part per million]
- Volatile Organic Compounds were less than detectable [less than twenty (20) nanograms per cubic meter]
- Elemental Mercury was less than detectable [less than ten (10) parts per billion].

1005: Production Operations Shift Industrial Hygiene Technician Supervisor notifies Production Operations Industrial Hygienists and Production Operations Central Shift Manager that all field deployed direct reading instrumentation have passed post-use-function-tests and that no readings were acquired that would indicate further action is necessary to protect worker safety and health.

1012: Shift Operations Event Notification: “Response actions for the TF-AOP-015 event have been completed and results are below action limits. Exiting TF-AOP-015. CSM”

Immediate Actions Taken

- Workers were instructed to leave the area and access was restricted (Buffalo blocked).
- Industrial Hygiene Technicians (IHTs) responded to the area and took direct reading instrument (DRI) readings and a bag sample. DRI readings were below action levels.

Compensatory Measures

None.

Readings from Sampling and/or Monitoring

Ammonia was less than detectable [less than one (1) part per million]

Volatile Organic Compounds were less than detectable [less than twenty (20) nanograms per cubic meter]

Elemental Mercury was less than detectable [less than ten (10) parts per billion]

Listing of IH Program(s) to Consider

None.

Facility Impact

None. Temporary barricade installed on Buffalo Avenue, removed after review of initial DRI field results.

Discussion of Potential Source(s)

Reviews of prior TF-AOP-015 events in the general area were conducted. One of note was the March 19, 2019 event at the MO2249 egress trailer (EIR-2019-012). This event's location and odors were similar, with odors of cleaning solvent and sweetness reported. The potential sources of Vadose zone field crew garbage bags and latex gloves doffed by the crew. The Vadose field crew were working at the 242-A Evaporator in the courtyard area on December 30, 2019, but much too far away and without the waste bags being generated on this day.

Inquiries were also made with the 242-A Evaporator Shift Manager and Safety Liaison with American Electric to verify that no work was being performed that could have generated these odors. Both confirmed that no work was underway that could have generated odors in the area of the west A-farm vehicle gate or in its general area. The 242-A Evaporator was performing preventative maintenance inside of the building and supporting the Vadose zone crew in the courtyard.

Recommendations/Factors for Evaluation

None.

Condition(s) Adverse to Quality





None.

Discussion of Positive Aspects of the Event

None.

Attachments

1. Listing of Personnel Contacted
2. WRPS TF-AOP-015 Industrial Hygiene Investigation Report
3. Industrial Hygiene Sample Plan (IHP-09001 R6) for TF-AOP-015
4. TF-AOP-015 Rev G-7, pages 9 and 10
5. Log Book Entries

Responsible Manager:		/ 	/ 01/08/2020
	Print (First and Last)	Signature	Date
Event Investigator:			11/8/20
	Print (First and Last)	Signature	Date

Attachment 1
Listing of Personnel Contacted

██████████ SST Retrieval Operations
██████████ 242-A Evaporator Shift Manager
██████████ AECOM Safety
██████████ Tank Farm Projects Field Crew, Vadose Zone
██████████ Event Investigator, Central Contractor Assurance

Attachment 2
WRPS TF-AOP-015 Industrial Hygiene Investigation Report (10 pages)

Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT	PER Number: WRPS-PER-2019-2515										
Time/Date & Event location: 0815 12/30/2019 West 241-A Farm West Vehicle Gate	EIR Number: EIR-2019-054										
<p>1. <u>Event Summary (including number of workers involved and activity in progress):</u></p> <p>At approximately 0815 three (3) workers smelled a Cleaning Solution, bleach odor, West of the 241-A vehicle gate. No symptoms reported</p> <ul style="list-style-type: none"> • <u>Was an IHT Present during Initiating event?</u> (<input type="checkbox"/>) Yes (X) No <p><u>IH Monitoring/ Sample Survey Reports:</u></p> <p>Event response: 19-12094 "AOP-015 Response West 241-A vehicle gate</p> <p><u>Weather Conditions at Time of Event:</u></p> <p>Ambient outside conditions:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">• Weather station:</td> <td>Station 6 @ 08115</td> </tr> <tr> <td>• Wind Direction and Speed:</td> <td>From South at 3 miles per hour</td> </tr> <tr> <td>• Barometric Pressure (<i>steady/rising/falling</i>):</td> <td>29.72 inches of Mercury rising</td> </tr> <tr> <td>• Temperature (F°):</td> <td>34</td> </tr> <tr> <td>• Humidity:</td> <td>92%</td> </tr> </table>		• Weather station:	Station 6 @ 08115	• Wind Direction and Speed:	From South at 3 miles per hour	• Barometric Pressure (<i>steady/rising/falling</i>):	29.72 inches of Mercury rising	• Temperature (F°):	34	• Humidity:	92%
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Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT	PER Number: WRPS-PER-2019-2515
Time/Date & Event location: 0815 12/30/2019 West 241-A Farm West Vehicle Gate	EIR Number: EIR-2019-054

Field Response Timeline:

- 0821: Production Operations Central Shift Manager was contacted by field staff about odors
- 0835: Shift Operations Event Notification: "Entered TF-AOP-015 for odors reported on the west side of A-Farm. Access to the A-Farm west vehicle gate is restricted. CSM"
- 0837: Production Shift Operations Functional Area Manager contacts Production Operations Industrial Hygiene Manager to inform of TF-AOP-015 entry
- 0838: Production Operations Industrial Hygienists arrive at Central Shift Office and is briefed by Production Shift Operations Functional Area Manager
 - 3 workers detected a "bleach/cleaner" odor
 - No symptoms were reported
- 0840: Odor Response Cards arrive at Central Shift Office
- 0840: Production Operations Central Shift Manager asks affected workers if they would like a precautionary medical evaluation and all workers decline
- 0840: Production Operations Central Shift Manager requests affected workers populate the map portion of the Odor Response Cards as well
- 0840: Production Operations Shift Industrial Hygiene Technician Supervisor contacts Production Operations Lead Industrial Hygiene Technician to request initialization of OHO Lumar and Thermo Scientific MIRAN SaphiRe
- 0844: Production Operations Industrial Hygiene Technicians arrive at the Central Shift Office
- 0849: Production Operations Shift Industrial Hygiene Technician Supervisor notifies Production Operations Industrial Hygienist that the INFICON HAPSITE® ER Chemical Identification System is being initialized by Industrial Hygiene Programs Industrial Hygiene Technician Supervisor
- 0850: Production Operations Shift Industrial Hygiene Technician Supervisor briefs Production Operations Industrial Hygiene Technicians on response actions
 - Respiratory Protection Equipment shall be worn in accordance with Respiratory Protection Form TF-AOP-015 Task 2 (3.1.12.3)
 - Sampling/monitoring will be conducted in accordance with IHP-09001:
 - Ammonia and Volatile Organic Compound area monitoring will be performed in areas indicated on Odor Response Cards.
 - Two (2) grab air samples will be collected. 1 general area and 1 source if Direct Reading Instrumentation indicates a source, or a second general area if no potential sources are indicated
 - Analyze grab air samples with the OHO Lumar, Thermo Scientific MIRAN SaphiRe, INFICON HAPSITE® ER Chemical Identification System
- 0852: Production Operations Industrial Hygiene Technicians depart the Production Operations Central Shift Office to acquire Respiratory Protection Equipment and Direct Reading Instrumentation
- 0821: Shift Operations Event Notification: "Access to the outside west side of A-Farm is restricted due to reported odors. All personnel stay clear of the area. CSM"
- 0835: Mission Support Alliance Water Utilities Supervisor contacts Production Operations Central Shift Manager to report that they were not performing any activities in vicinity of the reported odors at the time of the event
- 0941: Production Operations Shift Industrial Hygiene Technician Supervisor contacts Production Operations Industrial Hygienists with initial field results.
 - Ammonia was less than detectable [less than one (1) part per million]
 - Volatile Organic Compounds was less than detectable [less than ten (10) parts per billion]
 - Elemental Mercury was less than detectable [less than twenty (20) nanograms per cubic meter]
- 1005: Production Operations Shift Industrial Hygiene Technician Supervisor notifies Production Operations Industrial Hygienists and Production Operations Central Shift Manager that all field deployed direct reading instrumentation have passed post-use-function-tests and that no readings were acquired that would indicate further action is necessary to protect worker safety and health
- 1011: Shift Operations Event Notification: "Response actions for the TF-AOP-015 event have been completed and results are below action limits. Exiting TF-AOP-015. CSM"

Field #1 Author:

[Redacted]

Print First and Last Name

[Redacted]

Signature

[Redacted]

Phone No.

12/30/2019

Date

Washington River Protection Solutions
TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

PER Number:
WRPS-PER-2019-2515

Time/Date & Event location:
0815 12/30/2019 West 241-A Farm West Vehicle Gate

EIR Number:
EIR-2019-054

2. GCMS Sample Results:

HAPSITE GC-MS Bag Sample Results Summary 19-12094, AOP-15 (RIR-2019-054):

Two Bag samples were collected in response to odors reported at the 241-A Farm West Vehicle Gate. These samples were collected on December 30, 2019 and analyzed on December 30, 2019 using an Inicon HAPSITE GC-MS. Sample data was interpreted on December 31, 2019 and reported the same day. The sample collection bag matrix typically contains methyl methacrylate, toluene, xylene, D-Limonene, C9-C15 alkane hydrocarbons, and silicone compounds. Results for the System and Bag Blank Samples were satisfactory.

Traces of compounds typical of the sample bag matrix were detected in both bag samples, but no other compounds were detected above background concentrations in any sample.



If you have questions contact

Washington River Protection Solutions
TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

PER Number:
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Time/Date & Event location:
 0815 12/30/2019 West 241-A Farm West Vehicle Gate

EIR Number:
 EIR-2019-054

3. Additional Information:
 • Odor Response Cards received:

ODOR RESPONSE CARD - 241-A FARM

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

- Date and time odor was noticed 12-30-19 8:50am
- Your name and the work you were performing [Redacted]
- Location of odors (mark area on map and wind direction) East of A gate
- Name(s) of others in or near the affected area [Redacted]
- Was an IHT present?
- Describe the odor Sweet Sour Musty Earthy Metallic Smoky Rotten Onion Cleaning Solution Ammonia Other: _____
- Possible Sources _____
- Your symptoms (if any) Headache Dizziness/Light-Headed Nausea Cough Fatigue/Drowsiness/Weakness Sore/Burning Throat Difficulty Breathing Watery/Irritated Eyes/Trouble with Vision Tingling/Numbness/Paralysis Rash/Itching Other: None

2. Send this card to the Central Shift Office

A-6005-744 (REV 1)

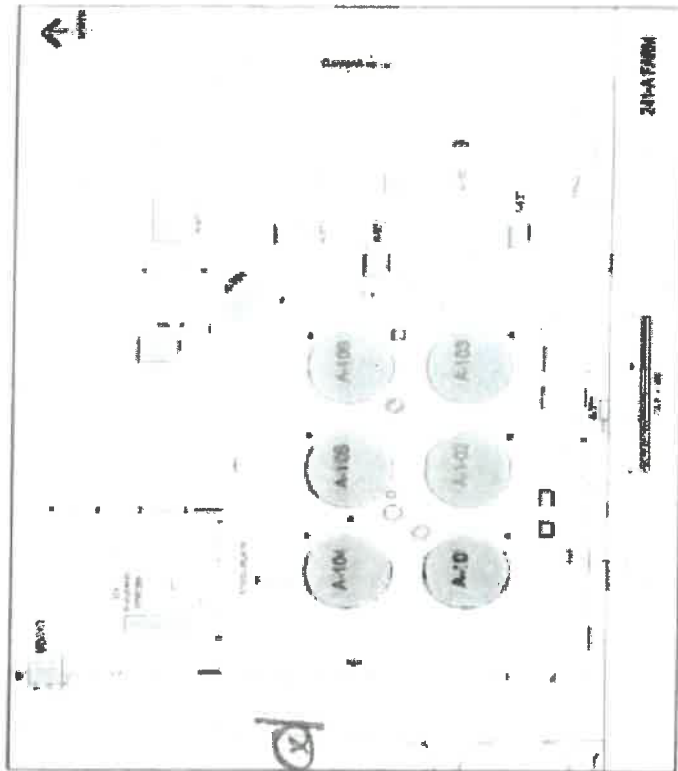
Washington River Protection Solutions
TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

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ODOR RESPONSE CARD - 241-A FARM



Wind Direction

W	E
W	S

A-6005-622 (REV 1)

- Odors Detected with NO immediate symptoms*
1. Notify Immediate Supervisor.
 2. Contact Central Shift Manager, [REDACTED]. Provide the buffered information below.
 3. Complete map, return to Central Shift Office as soon as practicable.
- Odors Detected WITH Symptoms*
4. Notify Immediate Supervisor.
 5. Contact CSN [REDACTED] complete below buffered information and map.
 - Your name and the work you were performing
 - Your symptoms (if any)
 - Date and time odor was noticed
 - Location of odors (mark area on map and the wind direction)
 - Describe the odor
 - Name of other in or near the affected area
 - Was an IHT present?
 - Possible source
 6. Provide information on the back of card.
- Send this card immediately to the Central Shift Office*

Page 1 of 2

ODOR RESPONSE CARD - 241-A FARM

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

- Date and time odor was noticed 12/30/19 08:15 am
- Your name and the work you were performing [Redacted] 041518
- Location of odors (mark area on map and wind direction) west of vehicle gate A farm
- Name(s) of others in or near the affected area [Redacted]
- Was an IHT present? Yes No
- Describe the odor Sweet Sour Musty Earthy Metallic Smoky Rotten Onion
- Cleaning Solution Ammonia Other: Bleach
- Possible Source _____
- Your symptoms (if any) Headache Dizziness/Light-Headed Nausea Cough
- Fatigue/Drowsiness/Weakness Sore/Burning Throat Difficulty Breathing
- Watery/Irritated Eyes/Trouble with Vision Tingling/Numbness/Paralysis Rash/Itching
- Other: _____

2. Send this card to the Central Shift Office

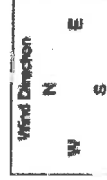
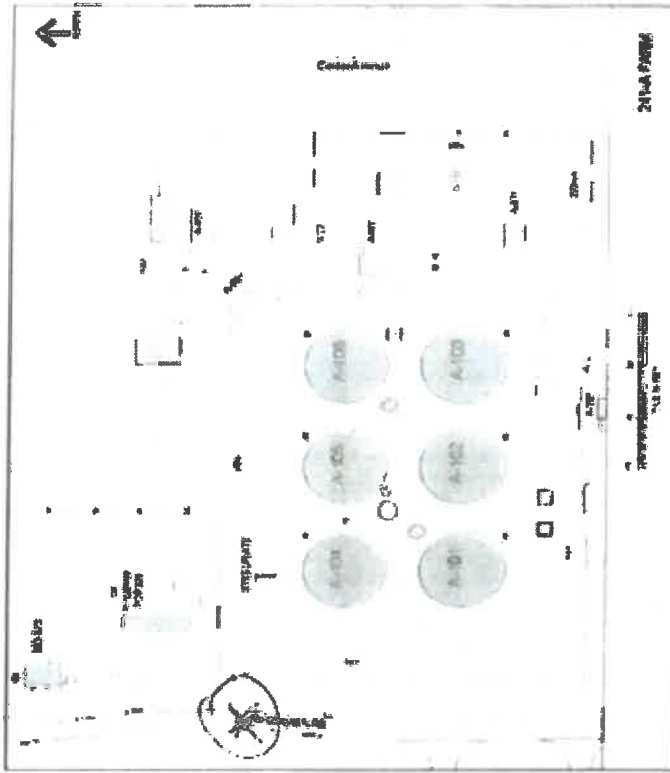
Washington River Protection Solutions
TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

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Time/Date & Event location:
 0815 12/30/2019 West 241-A Farm West Vehicle Gate

EIR Number:
 BIR-2019-054

ODOR RESPONSE CARD - 241-A FARM



- Odors Detected with NO Immediate symptoms**
1. Notify Immediate Supervisor
 2. Contact Central Shift Manager [REDACTED] Provide the buffered information below.
 3. Complete map, return to Central Shift Office as soon as practicable.
- Odors Detected WITH Symptoms**
4. Notify Immediate Supervisor.
 5. Contact CSM [REDACTED] complete below buffered information and map
 - Your name and the work you were performing
 - Your symptoms (if any)
 - Date and time odor was noticed
 - Location of odors (mark area on map and the wind direction)
 - Describe the odor
 - Name of other in or near the affected area
 - Was an IHT present?
 - Possible source
 6. Provide information on the back of card.
 7. Send this card immediately to the Central Shift Office

A-6005-722 (REV 11)

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Washington River Protection Solutions
TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

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ODOR RESPONSE CARD - 241-A FARM

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

- Date and time odor was noticed 12-30-19 0830
- Your name and the work you were performing [Redacted]
- Location of odors (mark area on map and wind direction) West gate of A farm S → N
- Name(s) of others in or near the affected area [Redacted]
- Was an IHT present? No
- Describe the odor Sweet Sour Musty Earthy Metallic Smoky Rotten Onion
- Cleaning Solution Ammonia Other: _____
- Possible Source W, W, W, W
- Your symptoms (if any) Headache Dizziness/Light-Headed Nausea Cough
- Fatigue/Drowsiness/Weakness Sore/Burning Throat Difficulty Breathing
- Watery/Irritated Eyes/Trouble with Vision Tingling/Numbness/Paralysis Rash/Itching
- Other: None

2 Send this card to the Central Shift Office.

A-6006-822 (REV 1)

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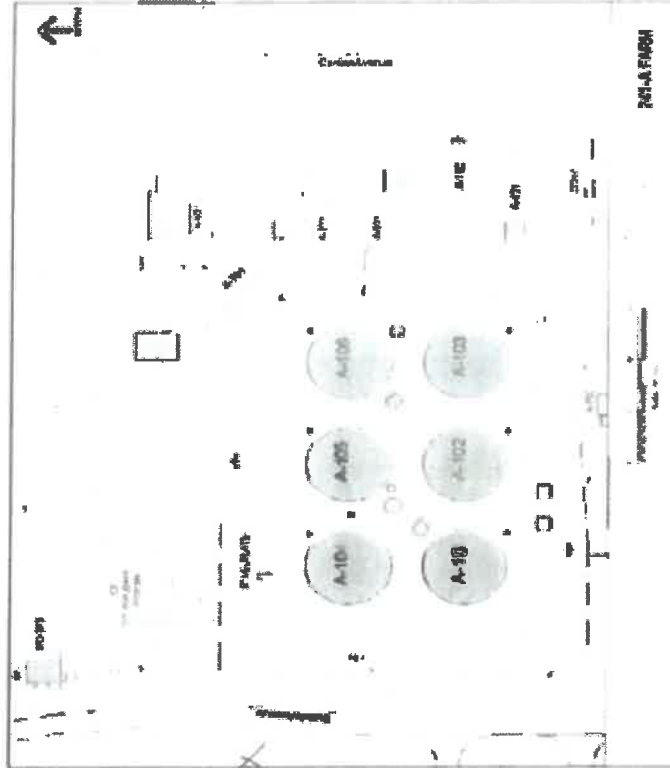
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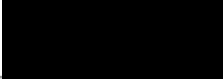
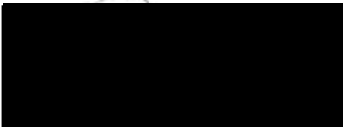

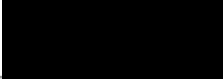
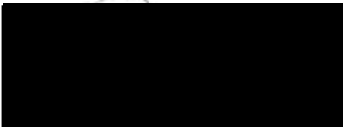

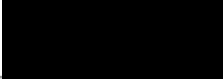
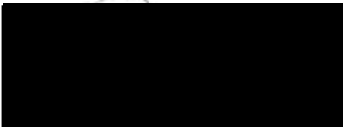

ODOR RESPONSE CARD - 241-A FARM



A-6006-922 (REV 1)

- Odors Detected with NO immediate symptoms**
1. Notify Immediate Supervisor
 2. Contact Central Shift Manager, [REDACTED]. Provide the bulleted information below.
 3. Complete map, return to Central Shift Office as soon as practicable.
- Odors Detected WITH Symptoms**
4. Notify Immediate Supervisor.
 5. Contact CSM, [REDACTED] complete below bulleted information and map.
 - Your name and the work you were performing
 - Your symptoms (if any)
 - Date and time odor was noticed
 - Location of odors (mark area on map and the wind direction)
 - Describe the odor
 - Name of other in or near the affected area
 - Was an IFT present?
 - Possible source
 6. Provide information on the back of card.
 7. Send this card immediately to the Central Shift Office.

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Time/Date & Event location: 0815 12/30/2019 West 241-A Farm West Vehicle Gate		EIR Number: EIR-2019-054										
<ul style="list-style-type: none"> • Summary of IH Monitoring and Sampling Data: <ul style="list-style-type: none"> a. Monitoring: <p style="text-align: center;">Event Response: 19-11066 'AOP-015 Response at AX-103'</p> <p style="text-align: center;">DRI field readings:</p> <table style="margin-left: auto; margin-right: auto;"> <tr><td>VOC:</td><td><DL</td></tr> <tr><td>NH₃:</td><td><DL</td></tr> <tr><td>Hg</td><td><DL</td></tr> </table> b. Sampling: N/A <p>4. <u>Summary of Employee Reported Information (e.g., symptoms)</u> Three workers reported a bleach/cleaner odor No workers reported symptoms All 3 workers declined medical evaluations</p> <p>5. <u>Recommendations/Conclusions:</u> Identification of Source of the Concern: [] Yes [X] No</p> <p>6. Other:</p> <p>S&H Program Management:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%; text-align: center;"> <small>Print First and Last Name</small></td> <td style="width: 30%; text-align: center;"></td> <td style="width: 20%; text-align: center;"> <small>Phone No.</small></td> <td style="width: 25%; text-align: center;"><u>1/3/2020</u> <small>Date</small></td> </tr> </table>			VOC:	<DL	NH ₃ :	<DL	Hg	<DL	 <small>Print First and Last Name</small>		 <small>Phone No.</small>	<u>1/3/2020</u> <small>Date</small>
VOC:	<DL											
NH ₃ :	<DL											
Hg	<DL											
 <small>Print First and Last Name</small>		 <small>Phone No.</small>	<u>1/3/2020</u> <small>Date</small>									

**Attachment 3
Industrial Hygiene Sample Plan (IHP-09001 R6) for TF-AOP-015**

INDUSTRIAL HYGIENE SAMPLE PLAN		Contractor: Washington River Protection Solutions	IHP Number IHP-09001 R6
Exposure Assessment: <input checked="" type="checkbox"/>	Job Specific: <input type="checkbox"/>		
Brief Job Description and Type of Area: TF-AOP-015; This sample plan will be implemented at the direction of the shift manager for IHT field response to odor event. Continuous IHT coverage is required during evolution of event			
INSTRUCTIONS			
<u>Action Limit (Direct reading instrument results)</u> Ammonia: 12 ppm VOCs: 2 ppm			
<u>Monitoring</u> <ul style="list-style-type: none"> • Source: Possible odor source if noticeable increase in intensity • Area: General area where employees identified the odor and, • Personal: N/A 			
<u>Sampling</u> Bag sampling is conducted at the direction of the industrial hygienist, collect a minimum volume of 20L in grab air samples with polypropylene (or equivalent) bags:			
<ul style="list-style-type: none"> • Source: If possible odor source if noticeable increase in intensity • Area: General area where employees identified the odor • Personal: Personal sampling will not be conducted as an immediate response action unless directed by the responsible <u>IHT</u>. 			
Process the grab air samples using the Hapsite, Miran and Lumex.			
MONITORING			
<ul style="list-style-type: none"> • Area monitoring will be performed for ammonia and VOCs. • General area where employees identified the odor and, • Possible odor source if noticeable increase in intensity or positive reading 			
If odor source is readily apparent, e.g. vehicle exhaust, septic systems, animal odors, discontinue monitoring and inform shift office that source has been identified.			
<u>Pre-Job Briefing Information N/A</u>			
<u>Other</u>			
<ul style="list-style-type: none"> • IHT to monitor their way in, moving from an upwind location if possible. • If conducted, a minimum volume of 20L in grab air samples with polypropylene (or equivalent) bags: • If collected, deliver grab air sample(s) to IH Lab at 2704-HV for Hapsite analysis. • If grab samples are collected: Ensure ammonia and VOC levels are denoted on the polypropylene bag(s) when air samples are delivered to the IH Lab at 2704-HV for Hapsite analysis. • Sample plan may be modified per written direction from the project IH in accordance with field deviation guidelines of TFC-ESHO-S_IH-C-48. • Record comments in field log. Transfer comments from field log to SWIHD-Comments field. Provide copy of field notes to project IH. • Additional direction for access control may be provided by the Shift Manager based upon monitoring and sampling results • A EZ may be established or farm access restricted if air monitoring levels reach and remain above an action level. 			
Did IHT Lead Review? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		If Yes, Lead IHT INITIAL SB & DATE: 10-4-2018	
IH Author	Print: [Redacted] Sign: [Redacted]	Phone: [Redacted]	Date: 10/4/2018
N/A [] IH Peer Review	Print: [Redacted] Sign: [Redacted]	Phone: [Redacted]	Date: 10/4/2018
N/A [] IH Mgmt	Print: [Redacted] Sign: [Redacted]	Phone: [Redacted]	Date: 10/4/2018

Attachment 4

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Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 2 - Communication Template

The following is example of detail to provide in the electronic form of Communication Template.

3 Hanford workers have declined precautionary medical evaluation after reporting odors at MO2255. 0 workers reported symptoms.

The employees were preparing to perform work on a cold OAT for the A-Farm exhauster and were not in an area that requires use of respiratory protection.

Workers were instructed to leave the area, and access to the area has been restricted.

NOTE - This communication template is to be completed as soon as enough information is available.

Central Shift Manager:

[Redacted Signature]

Signature

[Redacted Print Name]

Print (First & Last)

12/30/19

Date

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Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 3 - Follow-Up Event Summary

The following is example of detail to provide in the electronic form of Follow-Up Event Summary.

TF-AOP-015 Initial Report		
Date: 12/30/2019	Time: 1006 hours	Location: MO2255
Number of Workers Involved: 3	Sampling Results #: 19-12094	
Event Summary		
<p>At approximately 0821 hours 3 workers description of event. Initially no workers reported symptoms and declined medical evaluations.</p> <p>At approximately 0835 hours, affected workers submitted odor response cards and again confirmed they did not want evaluation at HPMC.</p> <p>At the time odors were reported, the individuals were not working in an area requiring use of respiratory protection. All workers were instructed to leave the area. Access to the area was restricted.</p> <p>IHTs responded to the area and took DRI readings and a bag sample. DRI instrument readings were below action levels. Analytical results for bag samples are being analyzed and will be posted upon receipt. Sample results support restoring access to the affected area.</p> <p>Event investigation 2019-054 has been initiated.</p>		
Return to Work Status		
Number of workers returned to work without restriction		3
Number of workers returned to work with restriction		0
Number of workers referred for further evaluation		0
<p>NOTE - Form is to be completed once event is stabilized and all details are known. - To learn more about chemical exposure evaluations see http://hanfordvapors.com/wp-content/uploads/2016/09/2a-HPMC-procedure.pdf</p>		
Central Shift Manager: _____	/ _____	/ 12-30-19
Signature	Print (First & Last)	Date

Type	Document No.	Rev/Mod	Release Date	Page
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Attachment 5 Log Book Entries

The screenshot shows a web browser window with the URL <http://elogs.wrps.fl.gov/App#CSO>. The browser title is "Home :: eLogs". There are two entries visible in the log book:

Date/Time	Category	Description	Approved On	Approved By
12/30/2019 -- 08:26	AOP	Entered TF-AOP-015 Response to Reported Odors or Unexpected Changes to Vapor Conditions. Notified by R&C OE [REDACTED] that he, along with NCOs [REDACTED] [REDACTED] noted a stronger than normal bleach/chlorine/cleaning solution smell on the west side of A-Farm between the vehicle gate and MO2255. Dispatched FOS [REDACTED] and NCOs [REDACTED] and [REDACTED] to restrict access traveling north on Buffalo starting just south of the A-Farm vehicle gate. None of the individuals reported symptoms. All declined evaluation at HPMC. ToxiRAEs did not indicate any elevated readings. Odor response cards complete.	12/30/2019 -- 08:49	[REDACTED]
12/30/2019 -- 08:26	Notification	Notified [REDACTED] for AOP, Entered TF-AOP-015 for odors reported on the west side of A-Farm. Access to the A-Farm west vehicle gate is restricted. at 12/30/2019 08:26	12/30/2019 -- 08:49	[REDACTED]

The screenshot shows a web browser window with the URL <http://elogs.wrps.fl.gov/App#CSO>. The browser title is "Home :: eLogs". There is one entry visible in the log book:

Date/Time	Category	Description	Approved On	Approved By
12/30/2019 -- 10:07	AOP	Closing TF-AOP-015. IHP-09001 response actions are complete and no hazards were detected. Response actions for the TF-AOP-015 event have been completed and the results are at or below background levels. Exiting TF-AOP-015. Normal access is restored. SOEN sent. Notified ORP FR [REDACTED]	12/30/2019 -- 10:15	[REDACTED]

Bergman,
Scott M