Event Investigation Report EIR-2018-035

"AOP-015 Investigation of Odors in 271AP Building"



	10/18/18
Event Investigation Team Lead	Date
	10/18/18
Responsible Manager	Date

Executive Summary

At approximately 0800 on Thursday October 4, 2018 two Nuclear Control Operators (NCOs) detected an onion like odor at the 271AP instrument building. The NCOs were performing bottle issuing and pressure watch activities when the odor was detected. NCO1 texted their supervisor informing them of the odor. At approximately 0803 the NCOs supervisor instructed them to leave the building and contacted the Central Shift Office (CSO). At approximately 0809 a TF-AOP-015 was entered, restricting access to the building. The NCO's stood outside the 271AP building and waited for the Shift Office Manager (SOM) to escort them to the CSO where they filled out odor response cards. Neither NCO reported having any symptoms and both declined medical evaluation. At approximately 0820 Industrial Hygiene Technicians (IHTs) were dispatched and performed Direct Reading Instrument (DRI) monitoring and gathered bag samples inside 271AP. At approximately 0839 Event Investigation Report, (EIR) EIR-2018-035, AOP-015 Investigation of Odors in 271AP Building, was initiated by the CSO. At approximately 0840 IHT response team reported odors being prevalent near an open garbage can with discarded food items in it. At approximately 0859 a Shift Office Event

Notification (SOEN) was released stating, "Update on AOP-015 Response: 271AP Building is the ONLY building affected by AOP-015 response. Access to AP Farm is allowed."

During interviews for EIR-2018-035, the NCO's stated that the odor was strongest next to an open garbage can with food in it, in the open bay room at 271AP. NCO's also stated that they did not smell the odor when they stepped outside at approximately 0810, and that the odor was restricted to inside the building. At approximately 1525 A SOEN notification was sent out stating, "Sample analysis for the TF-AOP-015 event has been completed and the results are at or below background levels. Exiting TF-AOP-015." During interviews, the NCOs stated that two other NCOs utilizing the 271AP building prior to the Tf-AOP-015 entry reported not having smelled any odors.

Personnel interviews were conducted in lieu of a fact finding meeting for this event. On-call ORPFR and Safety Program Services Representative were notified of all actions taking place throughout this event. WRPS-PER-2018-2654 was generated to document the TF-AOP-015 event.

Event Timeline

October 4, 2018

- 0800 NCOs 1 and 2 were performing bottle issuing and pressure watch activities at 271AP instrument building and detected an onion like odor.
- 0803 NCO1 texted their supervisor informing them of the odor.
- 0803 NCOs supervisor instructed them to leave the building.
- 0809 TF-AOP-015 entered, restricting access to the building.
- 0810 NCOs 1 and 2 stood outside 271AP building and waited for SOM to escort them to CSO, where they filled out odor response cards.
- 0820 IHTs dispatched and performed DRI monitoring and gathered bag samples inside 271AP.
- 0839 EIR-2018-035, AOP-015 Investigation of Odors in 271AP Building, initiated by CSO.
- 0840 IHT response team reported odors being prevalent near an open garbage with discarded food in it.
- 0859 SOEN released stating," Update on AOP-015 Response: 271AP Building is the ONLY building affected by AOP-015 response. Access to AP Farm is allowed."
- 1525 SOEN notification was sent out stating, "Sample analysis for the TF-AOP-015 event has been completed and the results are at or below background levels. Exiting TF-AOP-015."

End of event timeline

Event Details

Event	Investigation of 271AP Building AOP-015 Event				
Date/time of event	October 4, 2018, time of occurrence ~0800				
Location	271AP building				
Personnel affected	None				
Odor/taste	Onion like odor				
Symptoms	None				
DRI results during event	Less than the Level of Detection (LOD) for ammonia (NH3) and Volatile Organic Compounds (VOCs) on sweep of reported odor location.				
IH investigative monitoring/sampling	Readings from bag samples were less than the LOD for Mercury (Hg) and Nitrous Oxide (N2O).				
Possible source(s)	The Hapsite evaluation completed on October 4, 2018 concluded that the open garbage can in the 271AP bay room containing discarded food items was likely responsible for the ethyl alcohol and Sulfur oxide (SOx) compounds observed, due to fermentation and bacterial decomposition. No evidence of any Tank Farm Chemicals of Potential Concern (COPC) was observed.				
Weather conditions on October 4, 2018	Wind Time Dir Wind Ave Bar PST (From) Spd Temp RH 173 3.6 48.3 29.232 46.3				
Station 32	7:45 170 3.4 50.3 29.249 43.9 8:00 165 2.8 52.0 29.246 41.5				
	8:15 262 1.9 52.8 29.235 37.8 8:30				
Waste disturbing or tank work in adjacent area	Per the release sheets for AP farm on October 4, 2018, no waste disturbing or tank work in the adjacent area was occurring.				
Other work in adjacent area	Per the Daily Report for AP Farm on October 4, 2018, no work in the adjacent area is likely to have caused the odor.				

Preliminary Extent of Condition Review

This TF-AOP-015 entry is specific to 271AP building. Given the potential source and associated potential causes, the preliminary extent of condition is bound to the immediate area.

Discussion of Potential Causes

The Hapsite evaluation completed on October 4, 2018 concluded that the open garbage can in the 271AP bay room containing discarded food items was likely responsible for the ethyl alcohol and SOx compounds observed, due to fermentation and bacterial decomposition. No evidence of any Tank Farm COPC was observed.

Immediate Actions Taken

- 1. NCOs supervisor instructed NCOs to evacuate 271AP building.
- 2. TF-AOP-015 entered, restricting access to the building.
- 3. NCOs escorted to CSO, to fill out odor response cards.
- 4. IHTs dispatched and performed DRI monitoring and gathered bag samples inside 271AP.
- 5. EIR-2018-035, AOP-015 Investigation of Odors in 271AP Building, initiated by CSO.

History/PER Search

• A recent PER search revealed that no other PERs have been documented regarding odors in the 271AP building.

Recommendations/Proposed Corrective Actions /Lessons Learned

Recommend plan be developed for routine garbage removal at the 271AP instrument building.

Discussion of Potential Barriers

• The 271AP instrument building's airflow is not drawn from tank headspace. The instruments in 271AP are remotely wired to the tanks.

Documents Reviewed

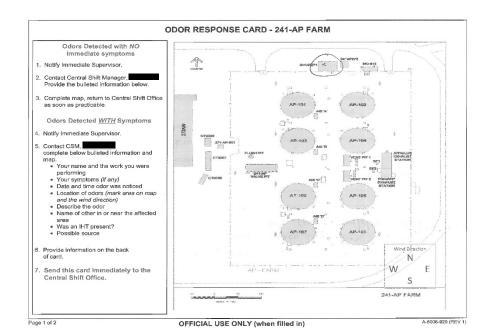
- 1. Odor Response Plan
- 2. Daily Report for October 4, 2018
- 3. Odor response cards
- 4. NCO 1 & 2 personal statements
- 5. CSM Log entries for TF-AOP-015
- 6. Release sheets for AP farm on October 4, 2018
- 7. Pictures of garbage bin in 271AP building

Attachments

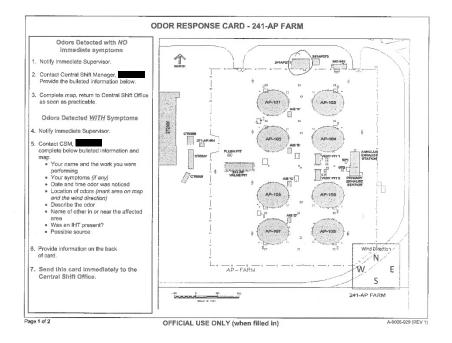
- 1. Odor response cards, 2 pages
- 2. Odor Response Plan and Site Wide Industrial Hygiene Database (SWIHD) report for DRI Survey #18-09275, 6 pages
- 3. Pictures of garbage bin in 271AP building, 1 page

Attachment 1, Odor Response Cards

	ODOR RESPONSE CARD - 241-AP FARM	
1.	Contact CSM, Complete below bulleted information and map.	
	Date and time odor was noticed 10 - 4 - 2016 91 8:00 Ath Your name and the work your were performing	
	Location of odors (mark area on map and wind direction) Af. Contol by ding 24 - W	2
	Name(s) of others in or near the affected area Was an IHT present?	
	Describe the odor	
•	Possible Source Unknown	
	Your symptoms (if any)	
	□ Watery/Irritated Eyes/Trouble with Vision □ Tingling/Numbness/Paralysis □ Rash/Itching □ Other: □ ∩ one	
2.	Send this card to the Central Shift Office.	
e 2 of 2	OFFICIAL USE ONLY (when filled in) A-6006-929	(RE



	ODOR RESPONSE CARD - 241-AP FARM
1.	Contact CSM, Complete below bulleted information and map.
•	Date and time odor was noticed 10-4-18 8:00 Arr
•	Your name and the work your were performing BoHle Support
•	Location of odors (mark area on map and wind direction) AP Control Building / 271 building
•	Name(s) of others in or near the affected area
	Was an IHT present? NO
•	Describe the odor
	Possible Source _ un Known
	Your symptoms (if any)
	☐ Fatigue/Drowsiness/Weakness ☐ Sore/Burning Throat ☐ Difficulty Breathing
	☐ Watery/Irritated Eyes/Trouble with Vision ☐ Tingling/Numbness/Paralysis ☐ Rash/Itching
	□ Other: Non €
2.	Send this card to the Central Shift Office.
2 of 2	OFFICIAL USE ONLY (when filled in) A-8008-929 (R



Attachment 2, Odor Response Plan and Site Wide Industrial Hygiene Database report for DRI Survey #18-09275

Page 1 of 1

Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 1 - Odor Response Plan

ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A		NT (date/time & description of ode				11' 1 1
The mass is standard operational configuration. RESPONDES ETEPS: Attent additional pager as needed 988 908 1981 Serued: *9508-Bintering App-015 for odors at 271AF Building. Exit 271AF to a safe location upwind report to your supervision. COR* 981 0810 N Leam IH receives phone call from AN Leam IH. AN Leam IH is currently at 271-AP Instrument Control I with work crew. 981 AY/AS and EV Leam IH arrive at CSO. 981 AN Leam IH called EV Leam II at a control and gives history of occurrence: 2 NCOs experienced stronder than normal *codor while performing pressure watch in 271-AP. Neither experienced symptoms and declined sedical. Odor was near bottle storage rack. AY/AS II and W Leam II determine action response falls under 3.1.1.4 of 77-ADP-01 begin implementation of Odor Response Plan. 9820 INT supervisor and shift lifts arrive at CSO and are dispatched to pull a bag sample and monitor with ID instrumentation. Voluntary respiratory protection is offerred under Task for ADP-015 RPF. 9831 NCOs arrive at CSO of fill-out Odor Response Carlo. While documenting information they are overheard to a container and prepared for disposal in an outdoor dumpster. 9832 NCOs arrived at CSO of the State found in Instrument Control building. Message from response personnel indicate were especially prevalent near the garbage. Garbage contained decemponing food products. Garbage was renot its container and prepared for disposal in an outdoor dumpster. 9836 *SOSD *Pols Personnel CSS** H Sampling Plan # per IH direction RWP # N/A Print (First & Last) N/A 10/04// Signature Print (First & Last) Dat **ADDITIONAL SIGNATURES** **Signature Print (First & Last) **Dat **Data **ADDITIONAL SIGNATURES** **Signature Print (First & Last) **Data **Si						
RESPONSE STEPS: Attach additional pages as needed 0809 SONN insured: "SONN-Instering ADP-015 for odors at 271AP Building. Exit 271AP to a safe location upwind construction of the process of the construction of the constructio			ied medicai evaluati	on. No intrusive w	ork was occurring at t	ne ume and adjacent
0808 SORN Issued: "SORN-Entering ADP-015 for odors at 271AF Building. Exit 271AP to a safe location upwind report to your supervisor. CSN" 0810 EV Leam IH receives phone call from AN team IH. AN team IH is currently at 271-AP Instrument Control I with work crew. 0811 ANYAS and EV team IH arrive at CSO. 0813 AN Leam IH calls EV team IH and gives history of occurrence: 2 NCOS experienced stronder than normal "codor while performing pressure watch in 271-AP. Neither experienced symptoms and declined sedical. Odor near bottle storage rack. ANYAE IH and RV team IH determine action response falls under 3.1.14 of TF-AOP-01 begin implementation of Odor Response Plan. 0820 LPR supervisor and shift IPRS arrive at CSO and are dispatched to pull a bag sample and noritor with DY of the Propose of Market Found in Instrument Control building. Message from response personnel indiverse were especially prevalent hear the garbage. Sarbage contained decagepoing food products. Garbage was resort its container and prepared for disposal in an outdoor duspeter. 0856 "800E-Update on ADP-015 Response: 271AP Building is the ONLY building affected by ADP-015 response. Acc Pare is allowed. CSN" H Sampling Plan # per IH direction RWP # N/A Other DRI Survey # 18-09275 REQUIRED APPROVAL SIGNATURES Industrial Hygiene: N/A Other DRI Survey # 18-09275 REQUIRED APPROVAL SIGNATURES Industrial Hygiene: N/A Print (First & Last) Date of the Date of the Control of the DRI Survey # 18-09275 Date of the DRI Survey # 18-09275		The state of the s				
report to your supervisor. CSM* 9010 EV Leam III receives phone call from AN team III. AN team III is currently at 271-AP Instrument Control I with work crew. 9011 AN Leam III calls EV team III arrive at CSD. 9013 AN Leam III calls EV team III and gives history of occurrence: 2 NCOS experienced stronder than normal "color which work crew. 9013 AN Leam III calls EV team III and gives history of occurrence: 2 NCOS experienced stronder than normal "color which performing pressure watch in 271-AP. Neither experienced symptoms and declined medical. Odor was near bottle storage rack. AN/AS IN and EV Leam III determine action response falls under 3.1.14 of TP-AOP-01 begin inglementation of Odor Response Plan. 9020 INT supervisor and shift IIITs arrive at CSO and are dispatched to pull a bag sample and monitor with instrumentation. Volumtary respiratory protection is offerred under Task for AOP-015 REP. 9031 NCOS arrive at CSO to fill-out OGOF Response CAC. While documenting information they are overheard to each of the color of th			271AP Building	. Exit 271AP t	o a safe location	upwind and
with work crew. 0011 AY/AS and BV team II arrive at CSD. 0013 NN team II calls BV team II and gives history of occurrence: 2 NCOs experienced stronder than normal "color while performing pressure watch in 271-AP. Neither experienced ayeptons and declined medical. Odor was near bottle storage rack. AY/AS IH and BV team II determine action response falls under 3.1.14 of TF-AOF-01 begin inglementation of door Response Plan. 0020 IRT supervisor and shift. IRTs arrive at CSO and are dispatched to pull a bag sample and monitor with Dinatrumentation. Voluntary respiratory protection is offerred under Task for AOF-015 RBF. 0021 NCOS arrive at CSO to fill-out Odor Response Card. While documenting information they are overheard to "smally garbage." 0040 Received photose of waste found in Instrument Control building. Message from response personnel indicate were especially prevalent near the garbage. Garbage contained decomposing food products. Garbage was removise contained accompaning food products. Garbage was removise and the output of the ONLY building affected by AOF-015 response. Acc Parm is allowed. CSW" H Sampling Plan # per IH direction RWP # N/A DATE OF THE SUPPLY AND A COMPLETE Signature Print (First & Last) Date of the product of	report to your super	visor. CSM"				
0013 NN team III calls EV team III and gives history of occurrence: 2 NOSe experienced stronder than normal "codor while performing pressure watch in 271-AP. Neither experienced symptoms and declined modical. Odor we near bottle extorage rack. AVAZ III and EV team III determine action response falls under 3.1.14 of FF-AOP-01 begin implementation of Odor Response Plan. 0020 IHF supervisor and shift IHFs strive at CSO and are dispetched to pull a bag sample and monitor with Dinstrumentation. Voluntary respiratory protection is offerred under Task for AOP-015 RPP. 0031 NCOS arrive at CSO to fill-out Odor Response Card. While documenting information they are overheard to "smell yaprabage." 0040 Received photos of waste found in Instrument Control building. Message from response provented to "smell yaprabage." 0040 Received photos of waste found in Instrument Control building. Message from response provented to decomposing food products. Garbage was resonits container and prepared for disposal in an outdoor duspater. 0056 "SOSE-Update on AOP-015 Response:271AP Building is the ONLY building affected by AOP-015 response. Acc Parm is allowed. CSN" H Sampling Plan # per IH direction		ives phone call from AN team IH.	AN team IH is	currently at 27	1-AP Instrument (Control Building
odor while performing pressure watch in 271-AP. Neither experienced symptoms and declined medical. Odor we mean bottle storage rack. Ar/AE it and EV team III determine action response falls under 3.1.14 of TF-AOP-D begin implementation of Odor Response Plan. 9820 lift supervisor and shift lifts arrive at CSO and are dispatched to pull a bag sample and monitor with Di instrumentation. Voluntary respiratory protection is ofterred under Task for AOP-015 RPF. 9831 ROS arrive at CSO to fill-out Odor Response Card. While documenting information they are overheard to "men!ly garbage." 9840 Received photos of waste found in Instrument Control building. Message from response personnel indicat were especially prevalent near the garbage. Garbage contained decomposing food products. Garbage was remot its container and prepared for disposal in an outdoor duspater. 9856 "SOSN-Update on AOP-015 Response:271AP Building is the ONLY building affected by AOP-015 response. Acc Farm is allowed. CSM" H Sampling Plan #per IH direction	0811 AY/AZ and EV tea	am IH arrive at CSO.				
0840 Received photos of waste found in Instrument Control building. Message from response personnel indicate were especially prevalent near the garbage. Garbage contained decomposing food products. Garbage was zenovita container and prepared for disposal in an outdoor dumpster. 0856 "SoR" Update on ADP-015 Response:271AP Building is the ONLY building affected by AOP-015 response. Acc Parm is allowed. CSN" H Sampling Plan # per IH direction RWP # N/A Other DRI Survey # 18-09275 REQUIRED APPROVAL SIGNATURES industrial Hygiene: Signature Print (First & Last) Dat Dat Drint (First & Last) Drint (F	odor while performing near bottle storage of begin implementation 0820 IHT supervisor a instrumentation. Vol	g pressure watch in 271-AP. Neith rack. AY/AZ IH and EV team IH de of Odor Response Plan. and shift IHTs arrive at CSO and a luntary respiratory protection is	her experienced termine action are dispatched offerred under	symptoms and d response falls to pull a bag s Task for AOP-0	eclined medical. under 3.1.14 of 7 ample and moniton 15 RPF.	Odor was notice
were especially prevalent near the garbage. Garbage contained decomposing food products. Garbage was renor its container and prepared for disposal in an outdoor dumpster. 0856 "\$080N-Update on AOP-015 Response:271AP Building is the ONLY building affected by AOP-015 response. Acc Perm is allowed. CSN" H Sampling Plan # per IH direction RWP # N/A HA: N/A Other DRI Survey # 18-09275 REQUIRED APPROVAL SIGNATURES Industrial Hygiene: Signature Print (First & Last) Dat Print (First & Last) Dat ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A / Signature Print (First & Last) Dat Signature Print (First & Last) Dat Signature Print (First & Last)			A AND A THE ORDER			
THA: N/A Other DRI Survey # 18-09275 REQUIRED APPROVAL SIGNATURES Industrial Hygiene: Signature	were especially preva its container and pre- 0856 "SOEN-Update on	alent near the garbage. Garbage e epared for disposal in an outdoor AOP-015 Response:271AP Building:	contained decomp dumpster.	posing food pro	ducts. Garbage w	as removed from
REQUIRED APPROVAL SIGNATURES Industrial Hygiene: Signature	H Sampling Plan #pe	er IH direction F	RWP #_N/A_			
Signature Print (First & Last) Date ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A Signature Print (First & Last) Date Signature Print (First & Last)	THA: <u>N/A</u>		Other DRI Su	rvey #_18-092'	75	
Signature Print (First & Last) Date	REQUIRED APPROVA	L SIGNATURES				NEW YELL
Signature Print (First & Last) Dat ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A Signature Print (First & Last) Dat	ndustrial Hygiene:		7			101/2000
Signature Print (First & Last) Date and Con: N/A		Signature	Print (First & Last)	/ _/	Date
Signature Print (First & Last) Date ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A	Shift Manager	- Spinist	7	201 00 2009		1.1
ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A	mit Managor.		/		/ 1	0/4/18
ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable RadCon: N/A		Signature	Print (First & Last)		Date
N/A Signature N/A Signature N/A Signature Print (First & Last) Dat Signature N/A Signature Print (First & Last) Dat Signature N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last)	ADDITIONAL SIGNAT		Manager or Saf	ety & Health R	tep; N/A if not a	oplicable)
Signature Print (First & Last) Date N/A	RadCon:					
Signature Print (First & Last) Date N/A		N/A	/		1	
N/A Signature N/A Signature Print (First & Last) Dat N/A Print (First & Last) Dat Description of 271 AP and pull bag samples from identified/suspected source. DRI monitoring results we etect. Two bag samples were collected (one from general area near the bottle holding area within 271 AP and the other from the garbage can when oticable. Please reference EIR-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: Signature Print (First & Last) Dat Dat Dat Dat Dat Dat Dat D			Print (1	First & Last)		Date
N/A Signature N/A Signature Print (First & Last) Dat N/A Print (First & Last) Dat Description of 271 AP and pull bag samples from identified/suspected source. DRI monitoring results we etect. Two bag samples were collected (one from general area near the bottle holding area within 271 AP and the other from the garbage can when oticable. Please reference EIR-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: Signature Print (First & Last) Dat Dat Dat Dat Dat Dat Dat D	Environmental:					
Signature Print (First & Last) Date N/A		N/A	1		1	
N/A Signature N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat Dat Dat Dat Dat Dat Dat D			Print (1	First & Last)		Date
N/A Signature N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat Dat Dat Dat Dat Dat Dat D	Engineer:					
Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat N/A Signature Print (First & Last) Dat Dat Print (First & Last) Dat Dat Print (First & Last) Dat Dat Dat Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) Wo IHTs were deployed to conduct DRI monitoring of 271 AP and pull bag samples from identified/suspected source. DRI monitoring results we etect. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when ofticeable. Please reference ER-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: Signature Print (First & Last) Dat Dat Dat Dat Dat Dat Dat Dat		N/A	1		/	
N/A Signature N/A Print (First & Last) Date of Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) who in HTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results we etect. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when officeable. Please reference EIR-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: Safety & Health Rep: Signature Print (First & Last) Date of the print (First & Last) Date of the print (First & Last) Date of the print (First & Last)			Print (I	First & Last)		Date
N/A Signature Print (First & Last) Date of Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) Invo IHTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results we etect. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when officeable. Please reference EIR-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: Signature Print (First & Last) Date of the print (First & Last) Date of the print (First & Last) Date of the print (First & Last)	ndustrial Safety:		,	,		
Signature Print (First & Last) Dat odor Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) wo IHTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results we etcet. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when of ticeable. Please reference EIR-2018-035 for further documentation of event. EESPONSE PLAN COMPLETED: afetty & Health Rep: Signature Print (First & Last) Dat		· N/A	1		1	
odor Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) wo IHTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results we etcet. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when oticeable. Please reference EIR-2018-035 for further documentation of event. RESPONSE PLAN COMPLETED: afecty & Health Rep: Signature Print (First & Last) Dat			Print (I	First & Last)		Date
wo IHTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results we etcet. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can when obticeable. Please reference EIR-2018-035 for further documentation of event. EESPONSE PLAN COMPLETED: afety & Health Rep: Signature Print (First & Last) Dat	dor Response Plan Notes (mon	1 4				
Signature Print (First & Last) Print (First & Last)	wo IHTs were deployed to con- etect. Two bag samples were co	duct DRI monitoring of 271 AP and pull bag ollected (one from general area near the bot	g samples from iden ttle holding area wit	tified/suspected sou	rce. DRI monitoring other from the garbag	results were non- e can where odors we
afety & Health Rep: 10/4/19 Print (First & Last) Date	CONTRACTOR OF THE PARTY OF THE					ZOROS, OTOROXIO
Signature Print (First & Last) Dat						, ,
Signature Print (First & Last) Dat	alory & Heatin Rep.				, 10.	14/19
		Signature	Print /	rirst & Last)	, 10)	Date
		Digitature	. imi (1	. I.S. W. LAISI)		
	Туре	Document No.		CONTRACTOR OF STREET		Page 8 of 10

Page 1 of 7

Date: 10/17/2018, 08:38 AM

SWIHD - DRI Completed Survey

Washington River Protection Solutions IH DRI Monitoring Survey

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building Survey Date: 10/04/2018

Survey ID: 18-09275 Survey Date: 10/04/2018 Survey Status: Complete

Survey Title: AOP 015 271-AP Instrument Building

Sample Plan: N/A WO/Procedure: N/A

Requestor: Prod Ops Shift Office

Surveyor:

Job Contact:

Contact Phone: Engineering Cntls: None Project IH:

Contact Cell Phone:

Administrative Cntls: None

Meteorology Data

Standard Yes Weather Date: 10/04/2018 Time: 0800 Conditions:

Pressure: 29.24 in/Hg **Humidity:** 43.9 % Wind Speed: 4 mph

Wind Direction: 152 Temperature: 49.9 °F

Comments

AOP-15 was called out at approximately 0807. IHT's met IH at 271-AP Instrument Building. Two bag samples were taken inside the building. The first bag sample (Bag 1)was an area sample of the area surrounding the bottle holding location. Upon further investigation, IH found rotten fruit, dated sandwich containers, etc. in the nearby garbage. The second bag sample (Bag 2) taken was from the garbage can where an odor was noticeable. IH took pictures of garbage can contents. Bag samples were brought back to IH lab to take readings with needed DRI instruments. Both IHT's and IH did not show any symptoms of an odor uptake upon leaving 271-AP Instrument Building.

SKC PUMP-001524 used at 4.2 lpm

Attachments

Bag samples AOP-15 271-AP Bldg SWIHD 18-09275.png HAPSITE AOP-015 271-AP 10-04-2018.pdf

SWIHD - DRI Completed Survey

Page 2 of 7

Washington River Protection Solutions Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Cal			

Inst	Instrument		Agents
ID:	002034	CAS	Description
Type:	Hapsite GC-MS Inficon	N/A	VOC-Hapsite
Serial Number:	70064729		
Last Cal Date:	12/01/2014		
Next Cal Due Date:	12/01/2034		
Lamp:	n/a		

THD - DRI Completed Survey

Page 3 of 7

Washington River Protection Solutions Date: 10/

Date: 10/17/2018, 08:38 AM

Survey Date: 10/04/2018

vey ID: 18-09275 - AOP 015 271-AP Instrument Building

Calibration

ambration Park line Function Test						
Instrument		Pre Use	Pre Use Function Test		Post Use Function Test	
ID:	000797	Date:	10/04/2018	Date:	10/04/2018	
Type:	MIRAN 205B TEI	Time:	0926	Time:	0939	
Serial Number:	205B-79384-398	Flow/Fault Ched	k: Yes	Ву:		
Last Cal Date:	12/16/2017	Battery Check:	Battery Check: Yes			
Next Due Cal Date:	12/16/2018	By:		Location	: Office	
Lamp:	No			•		
		Location:	Office			
Sens	or(s)	Pre Use Function Test		Post U	Post Use Function Test	
Sensor:	MIRAN 205B TEI IR	As Found: Adjusted To:	23.8 ppm N/A	As Left:	23.7 ppm	
Calibration Source:	Nitrous Oxide	,		1		
Lot Number:	6-050-205					
Manufacture Date:	02/22/2016					
Expiration Date:	02/22/2019					
Cal Source Value:	25.0 ppm					

SWIHD - DRI Completed Survey

Page 4 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey Date: 10/04/2018

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Calibration

Instrument		Pre Use	Function Test	Post U	Post Use Function Test	
ID:	002475	Date:	10/04/2018	Date:	10/04/2018	
Type:	RA 915M Ohio Lumex	Time:	*****		1300	
Serial Number:	2533	Battery Check: Yes		By:	0.5	
Last Cal Date: Next Due Cal Date:	11/27/2017 11/27/2018	By:		Location	і: Опісе	
Lamp:	N/A	Location:	Office			
Sens	or(s)	Pre Use Function Test		Post U	Post Use Function Test	
Sensor:	RA 915M Ohio Lumex mercury	As Found: Adjusted To:	4% N/A	As Left:	2%	
Calibration Source:	Mercury	,				
Lot Number:	Internal-2018					
Lot Humber.						
Manufacture Date:	01/01/2018					
	01/01/2018 12/31/2018					

SWIHD - DRI Completed Survey

Page 5 of 7

Washington River Protection Solutions Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Ca	lib	ra	tic	on

Instrument		Pre Use Function Test		Post U	Post Use Function Test	
ID: Type: Serial Number: Last Cal Date: Next Due Cal Date: Lamp:	001795 MultiRAE Pro RAE MCB3Z037R3 04/17/2018 10/17/2018 10.6ev	Date: Time: Flow/Fault Che Battery Check: By: Location:		Date: Time: By: Location	10/04/2018 1320 : Office	
Sense	or(s)	Pre Use	Function Test	Post U	se Function Test	
Sensor:	MultiRAE Pro NA					
Sensor:	MultiRAE Pro NA					
Sensor: Calibration Source: Lot Number: Manufacture Date: Expiration Date: Cal Source Value:	MultiRAE Pro RAE NH3 Ammonia 7-331-101-1 12/01/2017 12/01/2019 25.1 ppm	As Found: Adjusted To:	25 ppm N/A	As Left:	25 ppm	
Sensor:	MultiRAE Pro NA RAE O2		,			
Sensor: Calibration Source: Lot Number: Manufacture Date: Expiration Date: Cal Source Value:	MultiRAE Pro RAE ppb PID Isobutylene 7-331-201 11/28/2017 11/28/2020 10.0 ppm	As Found: Adjusted To:	10 ppm N/A	As Left:	9.8 ppm	

SWIHD - DRI Completed Survey

RC:

Page 6 of 7

Survey Date: 10/04/2018

Date: 10/17/2018, 08:38 AM **Washington River Protection Solutions**

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Readings Type: Farm - Specific Location: Non-Farm - See Other Other: AOP-15 Farm Status:

Activity: AOP-15 Bag Sample Readings

Date/Time: 10/04/2018 0833

Device **Action Limit** Range Result Agent Inst-000797 - IR Nitrous Oxide 0.000 PPM 25 ppm Inst-001795 - NH3 Ammonia 0.000 ppm 12 ppm Inst-001795 - ppb Volatile Organic Compound 0.000 ppb 2 ppm PID VOC-Hapsite Inst-002034 N/A 10000 N/A Inst-002475 -Mercury 0.000 ng/m3 0.01 mg/m3 mercury

Reading Details: Bag 1 (bag filled during sweep of 271-AP instrument building interior)

Type: Area Farm - Specific Location: Non-Farm - See Other

Other: AOP-15 Farm Status: N/A

RC:

Activity: AOP-15 Bag Sample Readings

10/04/2018 0835 Date/Time:

Device Range Result **Action Limit** Inst-000797 - IR 0.000 PPM Nitrous Oxide 25 ppm Inst-001795 - NH3 12 ppm Ammonia 0.000 ppm Inst-001795 - ppb Volatile Organic Compound 0.000 ppb 2 ppm Inst-002034 VOC-Hapsite N/A 10000 N/A Inst-002475 -Mercury 0.000 ng/m3 0.01 mg/m3 mercury

Reading Details: Bag 2 (From garbage can. Bag filled from open garbage about 6 inches above garbage can

Type: Area

Farm - Specific Location: Non-Farm - See Other

Other: AOP-15 Farm Status: RC:

Activity: AOP-15 Bag Sample Readings

Date/Time: 10/04/2018 0834

Action Limit Agent Range Result Inst-000797 - IR Nitrous Oxide 25 ppm 0.000 ppm Inst-001795 - NH3 Ammonia 12 ppm Volatile Organic Compound 0.000 ppb 2 ppm Inst-001795 - ppb

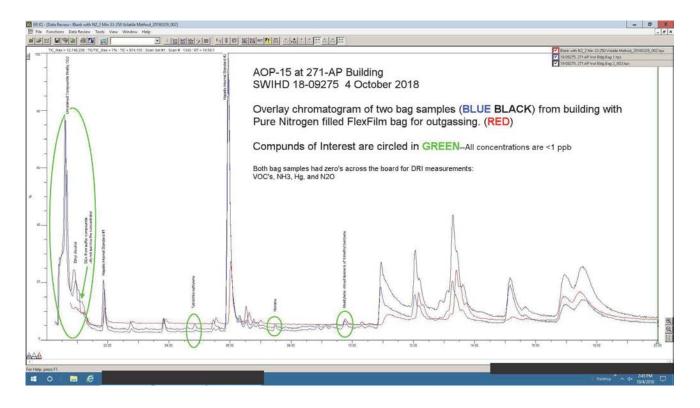
SWIHD - DRI Completed Survey

Page 7 of 7

PID Inst-002034 N/A 10000 N/A VOC-Hapsite Inst-002475 0.000 ng/m3 0.01 mg/m3 Mercury mercury Reading Details: DRI readings from area sweep inside 271-AP Instrument Building

Field Information Verified By: Date: October 17, 2018

Date: October 17, 2018 (The electronic approval indicated above acts as the authentication of this record on the above date)



Attachment 3, Pictures of garbage bin in 271AP building



