

EVENT INVESTIGATION REPORT

S Farm TF-AOP-015 Entry
EIR-2014-010

[Redacted]

Event Investigation Team Lead

[Redacted]

4/10/14

Date

[Redacted]

PER Responsible Manager

[Redacted]

4/10/14

Date

PER No. WRPS-PER-2014-0604

S Farm TF-AOP-015 Entry

Investigation Summary

On April 4, 2014, management was notified by a Nuclear Chemical Operator (NCO) of symptoms believed to have been received while working in S farm on April 3, 2014 performing Liquid Observation Well (LOW) surveillance. The employee was unsure of whether or not the symptoms were as a result of working close to breather filters in S farm. Management made the required notifications and TF-AOP-015, Response to Reported Odors or Unexpected Changes to Vapor Conditions, was entered.

The worker was encouraged to be evaluated at the site medical provider, HPMC, but declined. There were two (2) other workers on the LOW crew and it was confirmed that they did not smell odors and had no symptoms.

An event investigation was initiated on April 4, 2014, but no fact finding meeting was held.

Event Timeline

April 3, 2014

Two (2) NCOs and one (1) Health Physics Technician (HPT) performed LOW measurements in S farm (at 241-S-101, 241-S-104, 241-S-107, and 241-S-110). No issues were reported.

April 4, 2014

- 0852 Field Crew Manager reported that the NCO developed a sore throat and lost her voice overnight. The NCO was supporting the performance of LOW activities in S Farm yesterday around breather filters at 241-S-101, 241-S-104, 241-S-107, and 241-S-110 and believes these symptoms may be related. Field Crew Manager to take employee to site medical provider (HPMC).
- 0854 Entered TF-AOP-015 for S farm and restricted access. Field Lead is ST Area Day Shift Manager. Shift Office Event Notification (SOEN) sent. Radio announcement completed.
- 0930 Field Crew Manager reported to Central Shift Manager that the NCO and the work crew did not actually smell any odors in the farm yesterday, but believed the symptoms were due to being around the breather filters in S farm. Industrial Hygiene Technician (IHT) was dispatched to perform sampling even though this event did not meet AOP entry criteria.
- 1030 Based on communications with the Manager, Tank Farm Projects and the Manager, Base Operations, TF-AOP-015 was exited and sampling was not performed in S farm. NCO did not request IHT sampling and told Field Crew Manager it was not necessary. Exited TF-AOP-015 for S farm and SOEN was sent.

Compensatory Measures

- Entered TF-AOP-015 for S farm.
- Restricted access to S farm.
- Respiratory Protection Form (TO-040-333, Liquid Observation Well (LOW) Surveillance Van Startup and Operation, TO-040-350, Obtain Drywell Data using Radionuclide Assessment System, and TO-320-060, Operate Model 503DR M1HP-4 Hydroprobe Neutron Moisture Gauge) was updated for voluntary upgrade for LOWs, RAS, and Moisture Data Logging.

Preliminary Extent of Condition Review

There were two (2) other workers on the LOW crew and it was confirmed that they did not smell odors and had no symptoms. Other vapor events are also being reviewed separately.

Discussion of Potential Causes

As discussed above, symptoms may have been due to being around the breather filters in S farm. No odors reported.

Recommendations/Proposed Corrective Actions

1. Evaluate TF-AOP-015 entry requirements
 - a. To ensure clear/correct communications per the entry criteria
 - b. For impact on entry requirements for past events.

Lessons Learned

To be addressed, if required, by the causal analysis via a corrective action under WRPS-PER-2014-0604.

Attachments

- A. Shift Manager's Logbook Entries

**Attachment A
Shift Manager's Logbook Entries**

4/3/14 D-Shift
 1808 (cont.) ISR at PDR-104 to support the closure of Stopwork initiated at 1202 hrs. Verified w/ [REDACTED] 1/14 it was ok for release.

2105 Initiated temp round CSO-TR-59 to obtain A/W tank pressure twice per shift. Revised CSO-TR-57 to remove A/W tank pressures while CSO-TR-59 is active.

4/4/14 D-Shift
 0212 Relieved OS CSRM by [REDACTED]
 0312 RELIEVED, [REDACTED]
 0505 RELIEVED, [REDACTED]

0525 - Assumed duties as CSRM by [REDACTED]
 0552 - [REDACTED] reported that [REDACTED] developed a sore throat and lost her voice overnight. She was performing Low activities in S Farm yesterday around breather filters at S01, S104, S107, and S110 and believes these symptoms may be related. [REDACTED] taking her to HPmc in 200W.

0854 - Internal AOP-015, [REDACTED] all be assigning a field lead at S Farm and restricting access. SOEN sent radio announcement complete. Notified Crea [REDACTED]

0856 - SOEN sent fr [REDACTED] being taking to HPmc, notified [REDACTED] (Sr Manager) and [REDACTED] (FacRep)

0930 - [REDACTED] reported that [REDACTED] and the work crew did not actually smell any odors in the farm yesterday, but she believes her symptoms are due to being around the breather filters in S Farm. IHT is being dispatched to (cont.)

4/4/14
 1208

4/4/14

C-Shift

(cont.) perform sampling even though this event did not meet the AOP entry criteria.

1031 - Based on communications from [redacted] and [redacted] we may exit AOP-015 and not perform sampling [redacted] is not requesting THT sampling and told [redacted] it is not necessary. Exited AOP-015 for S Farm, SOEN sent. Notified [redacted] (FACEPP) and [redacted] (Sr. Manager). Radio announcement.

1040 - [redacted] and her Manager [redacted] agreed to lift the stop work for POE-104 TFC-WO-14-2764 based on clarification of respiratory requirements. Notified [redacted] and [redacted] (Sr. Manager). SOEN sent.

1105 - AOP-015 response inside tank farm boundaries require respiratory protection until AOP-015 is updated as necessary. (POC [redacted])

1116 - Notified [redacted] (FACEPP) and [redacted] (Sr. Manager). SOEN sent for USF.

1213 - [redacted] - OHS 10371

1213 - [redacted] - OHS 10371

1289 - " " " " reports c 1 gallon of diesel fuel spilled to the ground at the white generator south of AW farm. Environmental [redacted] notified, SOE responding to clean up.

1315 - Board Standing Order OHS-14-002, A1/A2/A3 Complex Respiratory Requirements. SOEN sent.

1318 - Expiring AOP-015 based on issuance of Standing Order OHS-14-002 for A1/A2. Environmental A Condition. SOEN sent.

1326 - [redacted] room 6 14 2nd floor