EVENT INVESTIGATION REPORT

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

Event Investigation Team Lead

PER Responsible Manager

PER No. WRPS-PER-2014-0604

4/10/14
Date

4/10/14
Date
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. Exit 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
E-Shift

4/14/14

(2a) perform sampling even though the test did not meet the AE criteria

1031. Based on communication from

and [illegible] may exist, AE-015

and not perform sampling

is not effective, THF sampling not

told 

Excluded AE-015 for S Farm, see and

Non-legal [illegible] (FBO) and

(St. Mary's) Radio announce

1040 - [illegible] and her manager agreed to lift the stop work

for POE-101, TR-2014-2764, based on clarification of必须 at the

Non-legal [illegible] (St. Mary's) S048 act.

1105. AE-015 response inside tank, form hazardous

oxygen respiratory protection until AE-015

is updated as necessary, (POE

1115. Non-legal [illegible] (St. Mary's) 504 act.

1215. [illegible] W-156

1230 - [illegible] reports a "gusher of dead

fuel spilled to the ground at the pump area

of RE Farm. Environmental notified, see responding to clean up.

1315. Pending Standing Order 015-14-002, RE/ENV

Complete Respiratory Requirments S001 S001

1315. Exceeding AE-015 exposed to a distance of

Standing Order 015-14-002 for AH Farm/EM

A Change S001 S001