



washington **river**  
**protection** solutions



*Team Evaluating Respiratory Protection Options*

**Tank Operations Contract**  
**Chemical Protection Program Office Weekly Report**  
**November 17, 2016**

## 1. CHEMICAL PROTECTION PROGRAM OFFICE (CPPO) ACTIVITIES STATUS

The Office of Inspector General's (OIG) Report was issued this week. The recommendations from the OIG Report are:

1. Take action to input all vapor issues into the WRPS problem evaluation request (PER) system to ensure adequate tracking, closure, and visibility of corrective actions.
2. Take steps to improve communication with the workforce about prior proposals to address vapor hazards that have been studied and not acted upon and explain the rationale for these decisions.
3. Continue to reinforce the Office of Environmental Management safety culture principles where:
  - a. Employees feel responsible for safety,
  - b. Leaders demonstrate commitment to safety,
  - c. Trust towards each other is a signature of the organization, and
  - d. Decision making reflects safety as the overriding priority.

CPPO will be tracking resolution of the PERs from Recommendation 1 and is supporting improvements in communications from Action 2.

A federal judge denied the motion for preliminary injunction file by the Attorney General, Hanford Challenge and Local 589 to implement additional interim protective measures at Hanford's tank farms on 11/15/16.

## 2. CPPO COMMUNICATIONS

The Hanford Vapors Usability Focus Groups summary has been finalized. There were seven recommendations from the report to enhance website usability and content. Implementation of the recommendations are under review.

CPPO website content maintenance plan is being drafted. The plan will identify periodic content review, communicating when new posts occur, and turnaround time for posting of information.

AP Cartridge Testing Factsheet Report Summary is in the process of being cleared for public release. The factsheet and the PNNL-25860 report, *Analysis of Respirator Cartridge Performance Testing on a Hanford AP Tank Farm Primary Exhauster Slipstream*, will be submitted for publication to the website.

### HanfordVapors.com Posts

#### [Vapors Weekly Update – November 10](#)

The functionality of the weekly updates has been improved, as suggested by feedback received from website users. The PDF is now available as an integrated function of the webpage, instead of offering a separate, standalone link to the document.

### 3. WEBSITE STATISTICS AND USE

Since the renovation of the vapors website, it has received nearly 8,000 hits. Data from the website is being updated constantly with almost 2,700 subscribers receiving these updates.

Oct-3 - Oct 12 Internal Website reviews preparing for public clearance.

Oct 13 Go Live Date



### 4. TVAT PHASE 1 AND PHASE 2 DETAILED STATUS

[Excludes status on TVAT Recommendations 24 – 28 and 31.]

**TVAT Recommendations 1 and 9; Headspace Sampling:** As reported last week, the FY 2016 data from tanks A-101 and A-103 are currently being analyzed for further statistical analyses.

**TVAT Recommendations 2, 7, 16; Chemical Plating (Aerosol Study):** No update.

**TVAT Recommendations 3-5; IH Instruments:** No update.

**TVAT Recommendation 6; IH Personnel Monitor Equipment:** No update.

**TVAT Recommendation 8; Dispersion Model Review:** As reported last week, the report summary and message mapping are being developed.

**TVAT Recommendation 10; Review/Update Chemical of Potential Concern (COPC) Listing:** The report summary and message mapping were reviewed with HAMTC safety representatives on 11/16/16.

**TVAT Recommendations 11-13, 15, 17-18; PNNL Health Study Roadmap:** As reported last week, the report summary and message mapping are being developed.

**TVAT Recommendations 14; Evaluate Medical Surveillance Program:** ORP Action. No status.

**TVAT Recommendations 19, 20; Toxicology Studies:** ORP Action. No status.

**TVAT Recommendation 21; Rounds and Routines:** As reported last week, the Rounds and Routines procedure is currently being drafted.

**TVAT Recommendation 22; Acute Bolus Assessment (RJ Lee Mobile Lab):** The FY 2016 final mobile lab report is anticipated to be complete 11/29/16.

**TVAT Recommendation 23; Medical Surveillance:** No update.

**TVAT Recommendation 24-27, 31; Hire/Maintain IH Staff:** A gap analysis on 10 CFR 851 was documented in an AECOM report, *Parity Review of the WRPS' Industrial Hygiene Program Relative to Radiological Protection Programs*. IH/IHT and lab analytical staff and support (equipment) have been obtained.

**TVAT Recommendation 28; Chemical Vapor Guidance Manual:** The Chemical Vapor Guidance Manual has been drafted. IH Programs will further develop this manual.

**TVAT Recommendations 29, 30; Enhanced Training:** A Chemical Worker Training Focus Group was held 11/08/16 to discuss the draft Chemical Worker I/II training modules with a few WRPS employees that typically work in an office environment. The focus group provided feedback on the outline of the training and the type of training that would be of interest to learn in order to address vapor issues at tank farms.

**TVAT Recommendations 32, 36; Bolus Assessment/Medical Stakeholders:** ORP Action. No status.

**TVAT Recommendation 33; Vapor Monitoring Detection System (VMDS):** The pilot scale testing of the VMDS is ongoing. The weekly reports on the monitoring system and data interpretation are being prepared and uploaded to the vapors website. For Phase 2 of testing, the set-up and shakedown of components to be utilized are being finalized. Discussions continue for the scope of Phase 2 testing. Installation of permanent power in AP Farm for the VMDS equipment is anticipated to be completed by 11/30/16.

**TVAT Recommendation 34; Vapor Control Zones/Vapor Reduction Zones (VCZs/VRZs):** No update.

**TVAT Recommendation 35; Cartridge Testing:** PNNL is incorporating comments from IH. IH anticipates verifying comment incorporation by 11/22/16. The SY 102 report is set for release from PNNL by 11/30/16.

**TVAT Recommendation 37; IH Improvements Tracking:** The schedule of activities is continually being tracked. The 47 TVAT Recommendations are currently being added to the PER system. See Section 1.

**TVAT Recommendations 38-39, 41; Management Commitment:** The 11/09/16 CVST meeting discussed the personal SUMMA testing conducted at 222-S Laboratory, CPPO group, and the stage 2 vapor strategy. Two technology tours of A and AP Farms occurred 11/15/16 and 11/16/16 for CVST participants.

**TVAT Recommendation 40; Improve EJTA:** No further actions required.

**TVAT Recommendation 42; Revise Exposure Letter:** No further actions required.

**TVAT Recommendation 43; IH Covello Training:** No update.

**TVAT Recommendation 44; PA System:** As reported last week, Statements of Work (SOWs) are currently being drafted for Phase 2A permanent installation of these systems in AP, A, AX, AY, and AZ Farms.

**TVAT Recommendation 45; Lab Support/Determination & Development of Similar Exposure Groups (SEGs):** As reported last week, work on drafting the SEG procedure is ongoing.

#### **OTHER VAPOR ACTIVITIES:**

##### **242-A Stack Extension**

The design team is in the process of approving the 100% design and is expected to finish 12/14/16.

##### **242-A Ammonia Analyzer Upgrade**

A Baseline Change Request (BCR) is in process to upgrade the ammonia monitor on the 242-A stack and a kick off meeting will be scheduled to start Phase 1 of the upgrade.

##### **IH Programs**

As reported last week, resource analysis is being performed to ensure correct staffing levels and staffing needs are met for completing Phase 2 and implementation of Phase 1 tasks.