NUCON® Vapor Abatement Unit, Engineering-Scale Testing, is the title of last week’s CPPO Notebook. For more about NUCON and other engineered controls, see Key Performance Parameter #4.
1. CHEMICAL PROTECTION PROGRAM OFFICE (CPPO) ACTIVITIES STATUS

In coordination with Industrial Hygiene and the ESHQ Chemical Protection Integration Manager, the approach to introducing the new vapors related Industrial Hygiene remedies to the workforce was drafted.

The draft Comprehensive Vapor Action Plan (CVAP) Dashboard with November data has been drafted and is in review.

The monthly update of the draft CVAP Action Status Report has been posted to the CPPO intranet site. The updated report provides detailed completion status of each external assessment recommendation.

**CPPO Oversight and Tracking**

**Communications Metrics Data**

**THE CPPO NOTEBOOK**

The CPPO Notebook is distributed on a weekly basis to aid managers in providing vapor-related information to staff on current topics of interest. Four Notebooks were released in November:

- A presentation on how to find the status progress made against the external assessor recommendations regarding chemical vapors
- Part-two of the Occupational Exposure Limits (OELs) series (focused on Hanford)
- A summary of the 2017 RJ Lee Mobile Laboratory Field Campaign report
- A review of the 2017 Safety Culture Report

The use of the Notebooks is tallied via email 'voting' replies sent in response to the distribution email. Since the Notebook is frequently used several weeks after distribution, the data regarding the utilization of individual editions may change over time (and is reflected in updates to monthly reporting). The data for November, to date, show that an average of 22 managers continue to report making use of Notebook each week. Utilization of the CPPO Notebooks by subject and week is shown in **Figure 1**. Since the beginning of FY2018, the data show the Notebooks have been used by WRPS managers to present vapors-related information to the workforce 172 times.
The Notebook material is provided in multiple formats and includes a subject matter expert (SME) narrated presentation. The presentation is posted to the intranet and available to all WRPS staff. The website traffic statistics identified 230 hits in November, accessing a variety of the Notebook audio files hosted on the WRPS intranet.

**CPPO REQUESTS AND PRODUCTION METRICS**

The CPPO routinely summarizes complex, technical vapors-related information and provides monitoring results, report summaries, presentations, a weekly report on WRPS vapors activities, and other information for distribution to the workforce through established mechanisms such as the Solutions newsletter and the HanfordVapors.com website.
In November, 45 vapors-related information products had been requested from the CPPO. Of these, 15 were completed and delivered this month. Tables 1 and 2 show the volume of activity over the course of the month and the three month trend. The CPPO Notebook and CPPO Weekly Report, along with article/report summaries, made up the bulk of the information provided this month. Several of the outstanding items are currently under review to assess whether or not they will be folded into other emerging products under the CPPO Look Ahead.

WRPS VAPORS RELATED COMMUNICATIONS DISTRIBUTION AND TREND
The total number of documented WRPS vapors-related communications provided to the workforce in FY2018 is shown in Table 3. The data for November includes 471 vapors-related communications, which continue to be led by the CPPO Notebook, plan-of-the-day (POD) meetings, and items posted to the HanfordVapors.com website. The number is slightly reduced from the prior month, possibly due to the Thanksgiving holiday. However, the three month trend shows that this level of vapors-related communication remains fairly consistent.

FY2018 forecast for delivery of WRPS vapors-related communications to the workforce, including monthly and cumulative estimates, is shown in Figure 2. The data trend indicates that WRPS is on track to deliver over 6,000 vapors-related communications to the workforce in FY2018 - largely through briefings and face-to-face interactions with the workforce.
### Table 3. WRPS Vapors Information Distribution Avenue

<table>
<thead>
<tr>
<th>WRPS Vapors Information Distribution Avenue</th>
<th>September - FY17</th>
<th>October - FY18</th>
<th>November - FY18</th>
<th>FY-to-Date Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Employee Email/Meetings &amp; ESHQ Comm.</td>
<td>2</td>
<td>9</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>CPPO Notebook*</td>
<td>76</td>
<td>101</td>
<td>71</td>
<td>172</td>
</tr>
<tr>
<td>CPPO Report and Weekly Report</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Fact Sheet &amp; Information</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meeting - CVST *</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Meeting - CVST Sub-team meeting *</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Meeting - Hanford Advisory Board Briefing *</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meeting/Briefing*</td>
<td>10</td>
<td>7</td>
<td>4</td>
<td>11</td>
</tr>
<tr>
<td>Meeting - Morning/Pre-Shift Brief*</td>
<td>347</td>
<td>415</td>
<td>367</td>
<td>782</td>
</tr>
<tr>
<td>Presentation*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Safety Start</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>SOEN</td>
<td>0</td>
<td>1</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Solution Article</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Survey and Focus Group</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Tours*</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Website/Individual Inquiry</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vapors Weekly Update or Website Post</td>
<td>8</td>
<td>22</td>
<td>11</td>
<td>33</td>
</tr>
<tr>
<td>Video</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Monthly Totals</strong></td>
<td><strong>453</strong></td>
<td><strong>568</strong></td>
<td><strong>471</strong></td>
<td><strong>1039</strong></td>
</tr>
</tbody>
</table>

**Figure 2. FY2018 WRPS Vapors Related Communications Distribution and Trending Forecast**

The graph illustrates the actual data through November 30, 2017, showing the distribution and trend forecast for FY2018 WRPS Vapors related communications.
2. COMPREHENSIVE VAPOR ACTION PLAN Key Performance Parameters

KPP 1. Engagement and Effective Measurement

Chemical Protection Engagement: Center for Toxicology and Environmental Health (CTEH)
CTEH attended plan-of-the-day (POD) meetings and pre-job meetings for the AX Sluicer removal project last week. The CTEH team is creating CPPO Notebooks, including topics on ammonia and nitrous oxide.

Chemical Protection Engagement: Chemical Vapors Solutions Teams (CVST)
The CVST held a meeting on December 13, 2017, the topics of which were the APR Rollout, Quantitative Risk Assessments (QRA), NUCON, and a Website Walk Through – DAV Tool and TVR Focus. It was announced that Stoneturn Consulting (STC) will attend the next CVST meeting on January 17, 2017, to brief the community on their 3rd Party Review.

The CVST Communications Sub-committee held a meeting on December 11, 2017.

The CVST New Technology Sub-committee held a meeting on December 13, 2017, attended by workers from the Chief Technology Office (CTO), IH field operations, CPPO, and the IH program. Several attendees were new to the meeting, so the sub-committee scope was reviewed. The team leader provided a brief history of the VMDS equipment selection process and alternatives to the C2Sense personal vapor monitoring. This led to questions and feedback from the team on alternatives to VDMS equipment, with recognition that many of these alternatives were not field-ready at this stage.

Chemical Protection Engagement: Communications
Last week’s CPPO Notebook is titled NUCON® Vapor Abatement Unit: Engineering-Scale Testing (Key Performance Parameter #4, Engineered Controls). This week’s CPPO Notebook is titled C-105 Retrieval, Industrial hygiene sampling and monitoring results.

Figure 3. December 19, 2017, CPPO Notebook Cover Page
Solutions, Issue 418, published on December 11, 2017, reported on the CPPO and C&PR collaboration, Video Tour: The WRPS Intranet. Presented during a CVST meeting, the tour focuses on three core elements: the WRPS intranet, the hanfordvapors.com website, and the Industrial Hygiene Data Access & Visualization (IH DAV) explorer.

Solutions, Issue 418, published on December 11, 2017, reported, “WRPS and the Hanford Atomic Metal Trades Council (HAMTC) have jointly agreed to allow use of full-face air-purifying respirators (FFAPRs) in Hanford’s SY Farm for specific work evolutions. The decision is consistent with the Memorandum of Agreement for use of respiratory protection between WRPS and HAMTC issued in August 2016.”

Hanford Tank Vapors, Vapors Weekly Update published on December 14, 2017, reported, “Washington River Protection Solutions (WRPS) and the Hanford Atomic Metal Trades Council (HAMTC) have jointly agreed to allow use of full-face air-purifying respirators (FFAPRs) in Hanford’s SY Farm for specific work evolutions. The decisions consistent with the Memorandum of Agreement for use of respiratory protection between WRPS and HAMTC issued in August 2016.”

Chemical Protection Engagement: Data Access and Visualization Tool (DAV)

Interesting and useful Google Analytics data has been collected at the Cloud Site. Table 4 is Google analytics data collected from the DAV tool for October and November 2017.
Table 4. Google Analytics Data Report October 2017 to November 2017

<table>
<thead>
<tr>
<th>2017</th>
<th>Total Page Views</th>
<th>Most Popular Feature</th>
<th>Second Most Popular Feature</th>
<th>Most Popular Region</th>
<th>Second Most Popular Region</th>
<th>New Users</th>
<th>Returning Users</th>
</tr>
</thead>
<tbody>
<tr>
<td>October</td>
<td>657</td>
<td>Chemical Selection: Chart Type: Single Chemical Chemical: Ammonia (7664-41-7)</td>
<td>Explorer-Set-Filter Explorer-Set-Filter is where the user is actively filtering on COPC Chemicals or All Chemicals.</td>
<td>Washington State</td>
<td>Illinois California Massachusetts Texas Arkansas North Carolina Virginia</td>
<td>64%</td>
<td>36%</td>
</tr>
<tr>
<td>November</td>
<td>619</td>
<td>Chemical Selection: Chart Type: Single Chemical Chemical: Ammonia (7664-41-7)</td>
<td>Search/Select Farm Search/Select Farm is where a user is filtering the data by tank farm name.</td>
<td>*Washington State</td>
<td>Maryland California Massachusetts Texas</td>
<td>67%</td>
<td>33%</td>
</tr>
</tbody>
</table>

*Washington State Breakdown:
1. Total Page Views: 571
   92% of page views are from Washington State
   Average Session Duration: ~3 min
2. Total Unique Users: 113
   Region/Marketing: Yakima-Pasco-Richland-Kennewick: 102
   and Seattle-Tacoma: 20
3. Page views by Region
   Yakima-Pasco-Richland-Kennewick: 518
   and Seattle-Tacoma: 53
4. New vs Returning Users
   Yakima-Pasco-Richland-Kennewick
   1. New Users: 102
   2. Returning Users: 52
   Seattle-Tacoma
   1. New Users: 11
   2. Returning Users: 9
Chemical Protection Engagement: Worker Feedback
The weekly HAMTC Safety Representatives/CPPO Interface meeting was held on December 13, 2017. It is always the focus and intention of CPPO and the HAMTC Safety Representatives to afford workers the opportunity to investigate contemporary vapors-activities in this meeting.

Mr. George Weeks provided an update on engineering-scale activities at the CVST meeting. During the presentation, Mr. Weeks requested feedback from those in attendance on the engineering-scale testing, including the selected COPCs to be tested and the sampling locations. In addition, a CPPO notebook on this subject was also released last week, which solicited this same input from the entire WRPS workforce.

Chemical Protection Engagement: Hanford Vapors Website Updates
- Vapors weekly update Dec. 14
- CVST Agenda - Dec. 13, 2017
- Pacific Northwest National Laboratory (PNNL) PNNL-25880, Hanford Tank Vapors COPCs Update
- VMDS Bench-Scale Testing (PNNL-25892)
- State of Knowledge Assessment: COPC/Exposure Limits (PNNL-25790)
- RPP-RPT-59584 SCBA Equipment Evaluation Report
- Atmospheric Dispersion Modeling – (PNNL-25654, Rev. 1)

Chemical Protection Engagement: Effectiveness Measures
CPPO is developing the next Vapors Communications Effectiveness Survey. The survey is in draft and will be reviewed at a future HAMTC Safety Representative/CPPO Interface meeting.

3. KPPs 2 and 3. IH Technical Basis and IH Program
Develop New or Revised Chemicals of Potential Concern (COPC)/Occupational Exposure Limit (OEL)
Last update 12/14/2017: The IH Manual (with specific focus given to institutionalizing the Chemical Vapors elements), and the 17 revised/new implementing documents and procedures, were routing for approval.
through the work review flow and approval (WRAP) when a reviewer identified information that needed further clarification. The tech basis is currently being revised to incorporate these clarifications, after which the document will be re-routed through the WRAP again. The expected delivery date of the revised tech basis is very early in the 2nd Quarter of FY2018.

Health Process Plan  
**Last update 12/7/2017:** Currently, all but one of the following PNNL-prepared reports has been submitted to the Internal Review Panel (IRP):

- *Proposed HTFOELs for Chronic Exposures – COPCs with Regulatory Guidelines*
- *Proposed Occupational Exposure Limits for Furans*
- *Proposed Risk-Based Approach for Nitrosamine Chemical of Potential Concern*
- *Proposed Acute Exposure Limits for COPCs with Regulatory Guidelines*
- *Proposed HTFOELs for Chronic Exposures - Nitrile Class COPCs and 2,4-Dimethylpyridine*
- *Assessing the Potential for Chronic or Acute Health Effects from Exposure to COPC Mixtures*
- *Recommendations for Sampling and Analysis of Hanford Waste Tank Vapors*
- *Hanford Tank Vapors FY 2017 Chemicals of Potential Concern Update*

Still in progress is *Assessing the Potential for Chronic or Acute Health Effects from Exposure to COPC Mixtures*. This study incorporates the chemical mixtures modeling, Acute Transient Exposure Concentration (TEC) Standard Operating Procedure (SOP) & Initial Screening, and a potential approach to fill gaps in acute TECs and mixture effects. After the IRP review, and before finalizing the submittal to WRPS, the studies will be reviewed by an external expert panel.

Parity Implementation with Established Programs  
**Last update 12/7/2017:** Chemical Worker Tier 1 training course is complete. It is now part of the Tank Operations Contractor Hanford General Education Training (TOC GET) program, and included as part of WRPS’s all-employee annual training. It is also a stand-alone class that can be taken at any time, by anyone on site. The Chemical Worker Tier 2 training course is complete too, and is coded for the new computer based training (CBT) computer system that Mission Support Alliance (MSA) will roll out at the beginning of the 2nd Quarter, FY2018. Tier 2 training is aimed at those employees who are located on site (200 East/West). Chemical Worker Tier 3 training was successfully piloted October 4, 2017.
Comments from the pilot class have been incorporated in the lesson plan for final approval. This class is focused on workers who enter the farms and it will be an ACES requirement. Currently, Training and IH is identifying instructors to teach the Tier 3 class. A “train the trainer” style class is tentatively scheduled for Tier 3 instructors in mid-December. Tier 3 training is scheduled to begin in mid-January with enhanced Chemical Hazard Awareness Training, known as CHAT, to be discontinued at that time. Training is working with Radiological Controls (RADCON) to ensure that ACES is updated with the new courses to ensure a seamless transition for workers that require farm entry.

Central Residence for Industrial Hygiene Technicians (IHT)

Last update 12/14/2017: Retrieval Industrial Hygiene Technicians (IHT) and their first-line supervisors will be relocated to a centralized mobile office (MO) building. The MO is slated to house approximately 100 workers. According to retrieval field support, this new space will be large enough to house all retrieval IHTs and their first-line supervisors. Plans are to install the MO in 200 East area on 4th Street near 218A across from PUREX. The installed and occupied MO will satisfy KPP 3 for retrieval IHTs. KPP 3 advocates a central location for IHTs that is commensurate with other technician level employees. Delivery of the 10 wide mobile office building for the IHTs is slated for February 2018. Move-in is expected sometime in May or June.

Air Dispersion Modeling

Last update 12/7/2017: The air dispersion modeling team established an algorithm to combine emissions from multiple sources, and are in the process of developing documented base emission rates for selected locations based on Vapor Control Zone (VCZ) reports, the Site Wide Industrial Hygiene Database (SWIHD), cartridge testing data, and air permits. Test cases of the model are being conducted using single emission sources (242-A Evaporator) and multiple emission sources (AP, AW, and AN stacks). These cases are being used to evaluate low wind speed periods and assess the periods when AOP-015 events occurred. The final test cases reports are expected to be delivered to WRPS the 2nd Quarter of FY2018.

KPP 4. Engineering Controls

A Farm Exhausters

Update: A Farm: A preliminary engineering design for relocating the exhausters was received on 12/14/17. The design enables completion of the Request for Proposal (RFP) for construction of the exhauster pad and exhauster...
installation. The RFP will be issued on 12/21/17 and the subcontract awarded in January 2018. American Electric was awarded the subcontract to isolate A Farm ventilation ducting. Mock-up activities verifying prior isolation of the 20” ducting will be complete 12/19/17; verification of the duct isolation is scheduled to begin in January. As required, isolation of the ducting will commence in February 2018. A subcontract to remove equipment from the A Farm tanks is forecast to be awarded in January 2018. The vacated risers will enable access for tank ventilation.

**AW Stack Extension**

**Update:** The 60% design package was completed the week of December 4, 2017. The final design was started, and is scheduled to be released in late January 2018. A subcontract was awarded to Terragraphics in mid-November for dispersion modeling support. The scope of the subcontract is to identify the dispersion (or plume effects) from the stack’s current elevation of 27 feet to its new elevation of 60 feet. Work has begun on the draft document, *Plant Forces Work Review*.

**AN Stack Extension**

**Last update 12/14/2017:** Evaluation of the AN Exhauster for stack extension. Engineering evaluations should begin in February to determine the optimum height required for the stack and whether the existing superstructure can support that stack height increase.

**Strobic Air Dilution Fan**

**Update:** Last week, WRPS received a schedule submittal from Strobic, which indicated that they would complete the factory acceptance test (FAT) by March 30, 2018. Because this is only one day ahead of the current PBI milestone of March 31, efforts are underway by WRPS management to support expediting the completion of the FAT. Additionally, the test plan statement-of-work (which will be used to support integrated testing in late spring/early summer of 2018) was submitted for solicitation on 12/14.

**NUCON Thermal Oxidation Vapor Abatement Unit (VAU)**

**Update:** Development of the engineering-scale testing continued, with the following being accomplished during the reporting period:

WRPS:
- WRPS continued preparing the technology maturation plan for the NUCON VAU.
- Efforts are on-going to transfer the Ultra-Violet Fourier transform infrared spectroscopy (UV-FTIR), currently located at tank farms, to PNNL for testing.
The procurement documentation to repair and modify the UV-FTIR to operate at 180°C, which is applicable for diesel exhaust was prepared.

- George Weeks provided an update on engineering-scale activities at the CVST meeting. During the presentation, George requested feedback from those in attendance on the engineering-scale testing, including the selected COPCs to be tested and the sampling locations. In addition, a CPPO notebook on this subject was also released last week, which solicited this same input from the entire WRPS workforce.

TerraGraphics:

- Received concurrence from WRPS to issue a contract to Design Space Modular for the rental of the test trailer.
- Reviewed and concurred with PNNL’s comment resolutions on the Test Plan.
- Based on walkdowns of the test instruments, modifications to the test trailer HVAC system were identified. An updated quote from the test trailer vendor was requested for modification of the HVAC system.
- Started work on Site Selection Criteria and presented the initial criteria at an Integrated Project Team meeting. The criteria was finalized at the meeting and weighting factors were assigned. This criteria will be used to select the tank farm that will support the potential future full-scale integration test.

PNNL:

- Resolved latest Test Plan comments and the document was returned to WRPS for another review. Some of the major comment resolutions included completing the process flow diagrams for the injection and sampling systems.
- The pre-concentrator was moved to PNNL’s Central Lab the week of December 4. Efforts were started to develop the operational procedure.
- In early November, COPC gas simulants were evaluated with the gas vendor, which was followed by final selection in late November. Procurement of the COPC gas simulant was completed the first week of December.
- In support of future permitting activities, PNNL started reviewing options for collecting required data.

NUCON:

In mid-November, NUCON submitted a diesel conversion kit design proposal, which was subsequently awarded towards the end of November. NUCON is currently working on the design and fabrication of the diesel conversion kit.
KPP 5. Administrative Controls and Monitoring

**Permanent Installation of Vapor Monitoring and Detection System (VMDS) Equipment in A and AP Farms**

**Last update 12/14/2017:** Numerous activities were performed throughout the week, including the following:

- Comments on the Phase 2 Pilot-Scale Report were resolved, and approvals are forthcoming.
- Efforts are on-going to schedule a meeting between the Chief Technology Office (CTO), Projects, and Operations to determine a path forward for VMDS equipment currently in A and AP Farms. At the weekly VMDS Integrated Projects Team Meeting, the Project Manager solicited feedback from his staff on methods for transitioning VMDS equipment.
- Efforts are on-going to develop coverage maps for A, AP, and AN Farms, and the Evaporator.
- Efforts are on-going to modify the Autosampler. In support of developing test gas standards, samples were collected during recent waste disturbing and quiescent (inactive or dormant) activities at AP Farm. The samples were sent to an off-site vendor for analysis. GC-FID, which will be used to analyze the samples, is currently being set-up to support analyses. Efforts are also underway to brief key WRPS IH personnel on Autosampler activities and solicit their feedback.
- Probes, pumps, UV-DOAS, gas standards, and other items needed to develop the gas standards and Autosampler are being procured. In parallel with these activities, design drawings for the test bed manifold and Hanford E-Skid are being prepared.
- The Ultra-Violet Fourier transform infrared spectroscopy (UV-FTIR), currently installed at AP Farm, is going to be turned over to operations. The draft F&R is in technical edit. Reviews are scheduled to start next week. This is a key document that will provide direction for much of this project moving forward. In addition to the F&R, ARES continues to prepare a calculation that refines the set point for ammonia. The calculation is headed to review too. Turnover activities include the development of training plans and preventive maintenance sheets.

**Stack and Boundary Monitors**

**Last update 12/14/2017:** The procurement of 13 UV-DOAS fence-line units continues to be delayed pending implementation of a WRPS approved Quality
Assurance (QA) program. It has been suggested that a third party QA program could support procurement efforts.

**Establishing Safe Unrestricted Boundaries**

**Last update 12/7/2017:** The scope of work defined in the draft CVAP under KPP 5 is to define unrestricted work boundaries, implement monitoring on active stack ventilation, and unrestricted boundaries in the A Farms to provide defense-in-depth. A full write-up is forthcoming in the CPPO 1st Quarterly Summary.

**Public Address System**

**Last update 12/14/2017:** The A Farm functional testing was completed. Efforts are now focused on completing the A, AX, AY, and AZ Farm’s PA systems to Operations by the week of 12/18. The excavation and conduit installations at both C Farm and AP Farm continue.

**KPP 6. Tank Operations Stewardship**

**Pilot SST Stewardship Program**

**Last update 12/14/2017:** Remote Monitoring Equipment: Efforts have been started for both the TY-Farm temperature and surface level designs, with drafts currently expected to be completed by early February 2018. Bench-scale activities were completed and procurement of both the temperature and level equipment have been initiated. Discussions with MSA also were initiated to help define its scope and schedule for supporting communications activities. Last week, at the CVAP FES meeting, it was announced that TX-Farm would be the second SST farm to be designed in FY2018. For this second SST, only the design needs to be completed by the end of FY2018.

**Update: FY LEAN 2015 Report:** A draft of the SST Stewardship Execution Strategy Document is being prepared, with the first draft expected the week of 12/18. Currently working to assemble team that will provide necessary feedback to review this first-of-its-kind document.

**Work Location Evaluations:** Recently, it was announced that the Work Location Evaluation Report would not be included in the SST Stewardship Execution Strategy Document. Instead, this would be addressed in a separate correspondence, which has already been started. Management recently met to review the current draft correspondence, define the remaining scope, and assign responsibility for completing the correspondence. The remaining work scope was defined and a tentative completion date is 1/31/18.
KPP 7. Hierarchy of Controls

**Cartridge Testing and SCBA Alternatives**

Last update 12/7/2017: Prior to June 30, 2017, cartridge testing was conducted at the AP Stack, A-101, 702-AZ, AN Exhauster, AW Stack, BY-108, AX-101, SX-101 and SX-104 tank farm locations. PNNL reports are complete for all of the above except for SX Farm. Copies of the completed reports are available HERE. In August, cartridge testing was performed at the AX Stack. The PNNL reports for the SX Farm and the AX Stack are currently being written. More information on these cartridge tests will be made available as the reports go final. PNNL has developed a summary report rolling up the information contained in the cartridge testing reports issued to date. This summary report went final in September 2017. Cartridge testing for FY-2017 was completed at the end of August. Cartridge testing for FY2018 is slated to begin in January/February of 2018.

The third party (STC) and WRPS agree that use of FFAPR equipped with the Scott 7422-SC or the Scott 7422-SD1 cartridge is adequate when supported by a hazard assessment conducted on a farm by farm basis. The schedule for FFAPR is currently being built.

**Mobile Laboratory**

FY2018 scope is being finalized and the RJ Lee Mobile Lab activities continue to be on-hold until a new contract is issued.

**Personal Vapor Monitor**

Update: C2Sense submitted a proposal for the next phase of the project, focusing on developing a smaller prototype and consulting to support the upcoming field test in the tank farms. A technical evaluation was completed and contracting is proceeding.

KPP 8. Medical Support

The scope of KPP-8 is to support RL medical program enhancements in conjunction with other Hanford Site organizations.