0090868

**Meeting Minutes Transmittal**

**T Plant Complex, Low Level Burial Grounds,**
**Central Waste Complex, Waste Receiving and Processing**
**Project Managers Meeting**
**825 Jadwin/Room 340**
**Richland, Washington**
**August 26, 2010**

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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting. Signatures denote concurrence with the content only and are not intended to imply agreement to any commitments.

for D. Singleton Date: 23 Sept 2010

Project Manager Representative, Ecology

Date: 23 Sep 2010

Project Manager Representative, RL

for D.L. Flyckt Date: 9/23/10

Project Manager Representative, CHPRC

| | |
|---|---|
| Central Waste Complex Admin Record | H6-08 |
| LLBG Administrative Record | H6-08 |
| T Plant Complex Admin Record | H6-08 |
| Waste Receiving and Processing Admin Record | H6-08 |
| MS Collins | A6-38 |
| DL Flyckt | T4-10 |
| PW Martin | T4-52 |
| DG Singleton | H0-57 |

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T Plant/LLBG/CWC/WRAP

PROJECT MEETING MINUTES
Project Managers Meeting
825 Jadwin/Room 340/700 Area
Richland, Washington

August 26, 2010

I. Approval of July 22, 2010 T Plant Complex, LLBG, CWC and WRAP Project Meeting Minutes (Ecology/DOE-RL/CHPRC).

A. The PMM minutes were approved.

II. Operational Status

A. Mike Collins (RL) provided the operational status for July 2010 (see attached charts and tables). Mr. Collins noted that the status provides numbers to the end of the fiscal month, so the numbers appear slightly different from the ones reported in the M-91 PMM.

Mr. Collins stated the upcoming polyurea application in the CWC expansion area is to protect the boxes from the weather. The boxes are stored on the back side of CWC. The large box 82 has been removed from LLBG and is being repackaged into 9x5x5-foot boxes. A general retrieval Notice of Construction (NOC) is being prepared for transmittal to the Department of Health so that vacuums and a containment structure can be used if needed.

Repackaging continues in T Plant with four lines operating, two on day shift and two on night shift. One repack line will start up in WRAP in September 2010. The repack effort on the 700 Z-9 drums is going well. The drums each contain ten to fourteen canisters of soil contaminated with plutonium. In order to meet WIPP acceptance criteria, x-rays have to show that the canisters have been vented. A toggle bolt is placed in the hole that has been punched through the lid so it can be seen on z-ray, and that method has resolved any question about the canisters being vented. Mr. Collins provided several color slides depicting retrieval activities.

III. Status of Previous Agreements and Commitments

A. There were no previous agreements and commitments to status.

IV. New Agreements and Commitments

A. Joanette Biebesheimer (Ecology) expressed appreciation to RL and CHPRC for providing a better understanding of the processes in the SWOC units. Ms. Biebesheimer stated that it has assisted Ecology in their review of the permits and in getting closer to completing addendums. Ms. Biebesheimer requested an action for *RL/CHPRC to provide a conceptual model for closure plans on the four SWOC units, with the focus on the WRAP closure.* A discussion ensued regarding the status of the draft closure plans that have been generated from past permitting workshops, and if they could be used to satisfy Ecology's request. Tony Miskho (CHPRC) stated that following the workshops in 2008, RL/CHPRC submitted to Ecology an Addendum H, which would represent their current position. RL/CHPRC have not seen the files since they last submitted them to Ecology in

2008. Ecology and RL/CHPRC agreed to conduct a search in an effort to locate the 2008 version of Addendum H to use as a starting point.

In conjunction with discussion of the WRAP closure plan, there was also discussion about whether a portion of a TSD unit can be closed. An action was taken for *RL/CHPRC to determine its position regarding the approach to TSD permitting*, and a meeting was scheduled for RL/CHPRC on Monday, August 30, 2010, from 8-9 a.m. Following the meeting, *CHPRC will generate a position paper to provide Ecology*, with a tentative date set for Thursday, September 2, 2010.

B. Ms. Biebesheimer asked about the status of the LLBG Part A's (trenches 31, 34 and 94). Two separate meetings were recently held with RL/CHPRC and Ecology to discuss the path forward for trenches 31, 34 and 94, with apparently two different approaches for the three trenches that were tentatively decided upon. It was agreed to include the LLG Part A application as a topic for discussion during the above-mentioned meeting on August 30, 2010. Mr. Collins stated that there needs to be a mechanism for transferring the used areas, which include what are called green islands, over to SW-2. The green islands consist of post-1987 mixed low-level waste that was disposed in unlined areas. Ecology's intent is to maintain the green islands as TSDs, but without a Part A. Tony McKarns (RL) noted that there would be legal issues to address if that approach is taken.

V. Near Term Schedules and Ongoing Activities

A. TSD Units Permit Status

Mr. Miskho stated that the training addendums have been drafted and are being prepared for transmittal to RL for review by next week. Mr. Miskho requested that Ecology provide copies of electronic files on the inspection addendums so that track changes can be done instead of comment tables. Ms. Biebesheimer noted that the addendums have been formatted with line numbers to aid in review and comment. Joel Williams (CHPRC) stated that the security addendum has been formatted and will be sent to the WRAP personnel to review before sending it to RL for review next week.

Regarding a revision to inspection of the tanks and the sump in T Plant that RL is seeking, Ms. Biebesheimer requested draft language for the permit conditions so that she can provide the language for internal review.

B. LLBG Groundwater Sampling

Mr. Miskho reported that samples were collected from Low Level Waste Management Area 1 (WMA-1) in June and July. Sampling in WMA-2 is scheduled for October. Sampling in WMA-3 is scheduled for September. Sampling in WMA-4 was completed in July except for two wells. Jeff Ayres (Ecology) and Stuart Luttrell (CHPRC) are meeting next week to determine the location for installation of new wells at the mixed waste trenches 31 and 34 in WMA-3. Doug Hildebrand (RL) will also be present.

VI. Approved Changes Signed off in Accordance with TPA Section 12.2

A. There were no approved changes signed.

VII. General Discussion

A. There were no topics for general discussion.

VIII. Actions

A. There were three new actions: 1) RL/CHPRC to provide Ecology a conceptual model for closure plans on the four SWOC units, with the focus on the WRAP closure; 2) RL will provide Ecology its approach to TSD permitting; 3) A discussion will be held regarding LLBG's Part A application submittal.

| Unit | Description of Action | Status | Date |
|---|---|---|---|
| LLBG | RL/CHPRC will provide Ecology with an information package on unused areas of burial grounds | Pending | 4/23/09 |
| | | RL targeting Oct 09 to provide info | 9/24/09 |
| | | A walk-down was done and paperwork is being prepared | 1/28/10 |
| | | No change in status | 2/25/10 |
| | | No change in status | 4/29/10 |
| | | A priority was set to complete the paperwork for this action | 8/26/10 |
| LLBG | Ecology to determine what form the groundwater monitoring plan will take, and whether a compliance schedule will be established for the regulatory approach to the burial grounds | | 1/28/10 |
| | | Ecology will schedule a meeting with RL and the contractors. | 2/25/10 |
| | | No change in status | 4/29/10 |

| | | | |
|---|---|---|---|
| | | Ecology will send an e-mail verifying no permit chapters will be needed for the used burial grounds. Ecology will provide documentation via e-mail regarding transition of interim status groundwater monitoring plans | 6/24/10 |
| | | No change in status | 8/26/10 |
| WRAP | An action was established for Ecology to verify permit documentation and recommend a path forward to RL | | 1/28/10 |
| | | In progress | 2/25/10 |
| | | In progress | 4/29/10 |
| | | In progress | 6/24/10 |
| | | Ecology and RL/CHPRC will conduct a search for the 2008 version of Addendum H | 8/26/10 |
| T Plant | Ecology will provide RL written acceptance of the line blanking to the tank that was never used at 2706-T | Pending | 9/24/09 |
| | | Kathy Conaway will provide the info | 1/28/10 |
| | | An e-mail was provided by Ecology, which will be attached to the PMM minutes. | 2/25/10 |
| | | Brian Dixon (CHPRC) will verify the e-mail has been submitted to the AR | 4/29/10 |
| | | Mike Collins (RL) will ensure the e-mail has been submitted to | 6/24/10 |

| | | | |
|---|---|---|---|
| | | the AR | |
| | | Mike Collins (RL) will provide a copy of Ecology's e-mail | 8/26/10 |
| ***SWOC Units*** | ***RL/CHPRC to provide Ecology a conceptual model for closure plans on the 4 SWOC units, with the focus on the WRAP closure*** | | |
| ***LLBG*** | ***RL will provide Ecology its approach to TSD permitting*** | | |
| ***LLBG*** | ***A discussion will be held regarding LLBG's Part A application submittal*** | | |

IX. Documents for Submittal to the Administrative Record.
Approval of the FY 2007 vapor extraction system work plan for trench T07 in the 218-W-4B burial ground was identified.

X. Next Project Mangers Meeting
The next PMM was scheduled for September 23, 2010.

**T PLANT, LLBG, WRAP, AND CWC PROJECT MEETING**
**825 Jadwin/Room 340**
**Hanford, Washington**
**August 26, 2010**

**10:45 a.m. to 11:30 a.m.**
**Agenda**

I. Approval of July 22, 2010 T Plant Complex, LLBG, CWC, and WRAP Project Meeting Minutes (Ecology/DOE-RL/CHPRC)

II. Operational Status

III. Status of Previous Agreements and Commitments

IV. New Agreements and Commitments

V. Near Term Schedules and Ongoing Activities
   A. TSD Units Permit Status
   B. LLBG Groundwater Sampling

VI. Approved Changes Signed Off in Accordance with TPA Section 12.2

VII. General Discussion

VIII. Actions

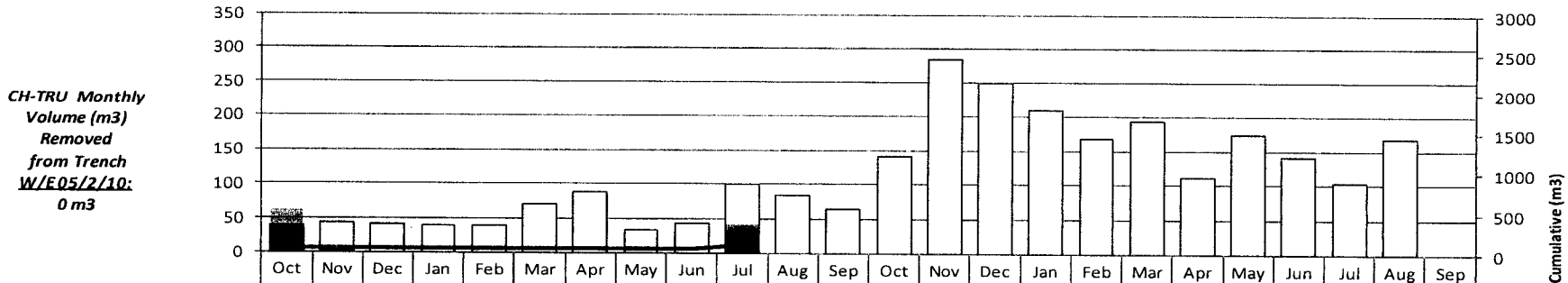
| Unit | Description of Action | Status | Date |
|---|---|---|---|
| LLBG | RL/CHPRC will provide Ecology with an information package on unused areas of burial grounds | Pending | 4/23/09 |
| | | RL targeting Oct 09 to provide info | 9/24/09 |
| | | A walk-down was done and paperwork is being prepared | 1/28/10 |
| | | No change in status | 2/25/10 |
| | | No change in status | 4/29/10 |
| | | No change in status | 6/24/10 |
| LLBG | Ecology to determine what form the groundwater monitoring plan will take, and whether a compliance schedule will be established for the regulatory approach to the burial grounds | | 1/28/10 |
| | | No change in status | 4/29/10 |
| | | Ecology will send an e-mail verifying no permit chapters will be needed for the | 6/24/10 |

| | | | |
|---|---|---|---|
| | | used burial grounds. Ecology will provide documentation via e-mail regarding transition of interim status groundwater monitoring plans | |
| WRAP | An action was established for Ecology to verify permit documentation and recommend a path forward to RL | | 1/28/10 |
| | | In progress | 2/25/10 |
| | | In progress | 4/29/10 |
| | | In progress | 6/24/10 |
| T Plant | Ecology will provide RL written acceptance of the line blanking to the tank that was never used at 2706-T | Pending | 9/24/09 |
| | | Kathy Conaway will provide the info | 1/28/10 |
| | | An email was provided by Ecology which will be attached to the PMM minutes | 2/25/10 |
| | | Brian Dixon (CHPRC) will verify the e-mail has been submitted to the AR | 4/29/10 |
| | | Mike Collins (RL) will ensure the e-mail has been submitted to the AR. | 6/24/10 |

IX. Documents for Submittal to the Administrative Record

X. Next Project Managers Meeting

# Waste Retrieval Performance

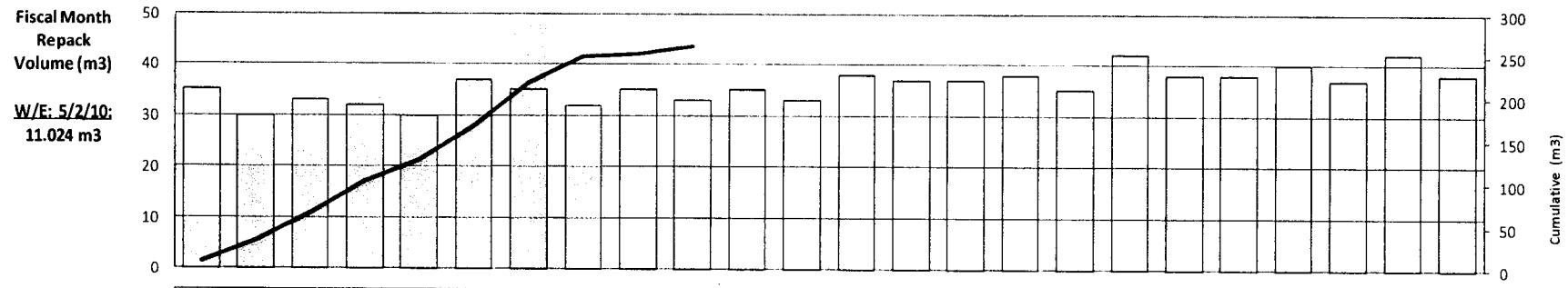



| | Oct 09 | Nov 09 | Dec 09 | Jan 10 | Feb 10 | Mar 10 | Apr 10 | May 10 | Jun 10 | Jul 10 | Aug 10 | Sep 10 | Oct 10 | Nov 10 | Dec 10 | Jan 11 | Feb 11 | Mar 11 | Apr 11 | May 11 | Jun 11 | Jul 11 | Aug 11 | Sep 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Planned | 40 | 44 | 42 | 40 | 40 | 71 | 89 | 35 | 44 | 100 | 85 | 65 | 141 | 286 | 251 | 209 | 168 | 193 | 112 | 174 | 141 | 105 | 169 | |
| Actual | 63 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | | | | | | | | | | | | | | |
| Cumulative Actual | 63 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 110 | | | | | | | | | | | | | | |

# CWC/LLBG Activities

| Activity Description | Activity Description |
|---|---|
| Polyurea Application - CWC Expansion Area | •DOE has directed RA3 assessment. Plan of Action (POA) signed on 6/07/10 with completion targeted for September 2010 |
| CWC Low Flash Point Modules | •Empty modules being readied for shipment to ERDF<br>•Two of three modules shipped to ERDF in mid-August<br>•Anticipate shipping final module to ERDF by the end of August |
| CWC - Roof Repairs | •8 buildings with identified roof leaks (2403-WD, 2403-WB, 2403-WA, 2402-WB, 2402-WC, 2402-WD, 2402-WF, 2402-WI)<br>•Sheet metal work has started |
| LLBG – Deteriorated Boxes 80 and 82 | • Air NOC transmitted to RL the week of July 15th<br>•Repackaging has started and one 9x5x5-ft box is partially filled |

# TRU Program (WRAP and T Plant) Performance




| | Oct-09 | Nov-09 | Dec-09 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | Jan-11 | Feb-11 | Mar-11 | Apr-11 | May-11 | Jun-11 | Jul-11 | Aug-11 | Sep-11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PMB Commitment | 35 | 30 | 33 | 32 | 30 | 37 | 35 | 32 | 35 | 33 | 35 | 33 | 38 | 37 | 37 | 38 | 35 | 42 | 38 | 38 | 40 | 37 | 42 | 38 |
| Actuals | 10 | 24 | 33 | 37 | 25 | 39 | 50 | 32 | 2 | 9 | | | | | | | | | | | | | | |
| Cumulative | 10 | 34 | 67 | 104 | 129 | 168 | 218 | 250 | 252 | 261 | | | | | | | | | | | | | | |

# TRU Program Activities

| Activity Description | Status |
|---|---|
| WRAP | •High Energy RTR concrete pad completed. Electrical work in progress<br>•HERTR shield wall contract awarded. Expect vendor onsite 2nd week of August<br>•WRAP repack restart set for September<br>•HEPA filters change in progress; Completed second bank and initiated planning to replace Glove Box HEPA filters |
| T Plant | •Completed repack of five Z-9 drums. Resumed repack operations |

**LLBG, CWC, WRAP, and T PLANT**
**Project Managers Meeting**
**825 Jadwin/Room 340**
**Hanford, Washington**

**August 26, 2010**

## Attendance List

| Name | Organization | Phone Number |
|---|---|---|
| Kathy Clause | CHPRC | 376-2377 |
| Kathy Knox | Knox Reporting | 946-5535 |
| LINDA Peterson | CHPRC - FGG | 373-4200 |
| Nancy Ware | CHPRC-M&EC | 373-3478 |
| Stephanie Johansen | CHPRC-M+EC | 373-1031 |
| GUS ALVURE | CHPRC | 376-7485 |
| [illegible] | CHPRC-EP | 376-4786 |
| Tony Mistcho | CHPRC - W+FM | 376-7313 |
| Lee Tuott | CHPRC-WRAP | 376-1045 |
| Michael Collins | DOE-RL | 376-6536 |
| TONY MCKARDS | DOE | 376-8981 |
| JW. Biebesheimer | Ecology | 372-7891 |
| Seana Mortensen | Ecology | 372-8479 |
| | | |
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**APPROVAL OF THE FY 2007 VAPOR EXTRACTION SYSTEM WORK PLAN FOR TRENCH T-07 IN THE 218-W-4B BURIAL GROUND**

The M-91 Project Managers for the Carbon Tetrachloride Vapor Extraction Remediation at Trench T-07 in the 218-W-4B Burial Ground approve the attached FY 2007 Vapor Extraction System Work Plan.

Mark S French 12/8/06

M. S. French Date
U.S. Department of Energy
Richland Operations Office

12/13/06

D. G. Singleton Date
Washington State Department of Ecology

## FY 2007 VAPOR EXTRACTION SYSTEM WORK PLAN FOR TRENCH T-07 IN THE 218-W-4B BURIAL GROUND

Vapor extraction will be performed at Trench T-07 within the 218-W-4B Burial Ground during FY 2007 to remove carbon tetrachloride from the trench free air volume. The primary objectives for this remediation are to minimize release of carbon tetrachloride from the trench to the environment and to protect site workers. Vapor extraction will be conducted in support of waste retrieval activities at Trench T-07. A vapor extraction system (VES), using commercially-manufactured equipment, incorporating a high efficiency particulate air (HEPA) filter, and a granular activated carbon (GAC) adsorber, will be deployed and operated for this activity.

The action will be performed in accordance with:

- *Action Memorandum: Expedited Response Action Proposal for 200 West Area Carbon Tetrachloride Plume* (U.S. Environmental Protection Agency and Washington State Department of Ecology letter to U.S. Department of Energy, Richland Operations Office, CCN 9200423, dated January 21, 1992).

The VES design will be based on:

- *Safety Analysis for the 200 West Area Expedited Response Action for Remediation of Carbon Tetrachloride* (BHI-00089, Rev. 02), Section 2.4.4, "Vapor Extraction System Characterization Unit".

The VES job hazard analysis will evaluate and address scenarios from:

- *Safety Analysis for the 200 West Area Expedited Response Action for Remediation of Carbon Tetrachloride* (BHI-00089, Rev. 02), Section 3.0 "Hazards".

The VES will be manually operated based on guidelines and controls from:

- *Safety Analysis for the 200 West Area Expedited Response Action for Remediation of Carbon Tetrachloride* (BHI-00089, Rev. 02), Section 1.2 "Analysis Summary" and Section 4.0 "Safety Functions and Controls".

Vent risers T-07-4 and T-07-6 in the subject trench have been selected as the primary initial VES withdrawal points based on previous carbon tetrachloride vapor monitoring in support of waste retrieval operations (DOE/RL-2004-70, *218-W-4B Burial Ground Sampling and Analysis Plan*). Additional vent risers in Trench T-07 (or in the eastern portion, referred to as Trench T-07) may be used as withdrawal points, based on the results of additional vent riser sampling. Treated process air will be discharged from the GAC adsorber to atmosphere through an elevated release point. The alternate discharge path is to the trench free air volume through one or more of the existing vent risers. Based on vapor sample and process data collected during operation, the withdrawal and discharge points may be reconfigured to provide additional data for rebound analysis and to optimize carbon tetrachloride removal. Multiple vent risers may be used for withdrawal and discharge.

The waste drums in Trench T-07 are arranged in modules, typically 12 drums wide by 12 drums deep by 4 drums high (576 drums total). Flame retardant 0.64 cm (0.25-in.)-thick plywood sheets were placed to separate the layers of drums and other packages. When the modules were completed, they were covered with 30 mil (0.030-in.) polyvinyl chloride laminated nylon sheeting, followed by a 1.9 cm (0.75-in.)-thick plywood sheet. As a result of this design, the modules are separated from each other by the plastic sheeting, and air flow between the modules is limited or nonexistent. The majority of modules have one riser. Current data indicates that risers T-07-4 and T-07-6 are each in a separate module. The modules are 7.3 m (24 ft) by 7.3 m (24 ft) by 3.7 m (12 ft), for a total module volume of approximately 196 $m^3$ (6,912 $ft^3$). If two modules are connected to the VES through risers T-07-4 and T-07-6, the total module volume would be 392 $m^3$ (13,824 $ft^3$). Assuming 20% of the module volume is free air space, there would be 78 $m^3$ (2,765 $ft^3$) of free air space available for extraction. At a nominal flow rate of 1.4 to 2.8 $m^3$/min (50 to 100 $ft^3$/min), assuming intercommunication within the air volume in each module, extraction for 6 hours, during a normal 8 hour shift, would remove approximately 756 $m^3$ (27,000 $ft^3$) of air, or about 9.7 air changes per shift.

Carbon tetrachloride concentration monitoring will be accomplished through collection of grab-samples and off-line analysis using a field screening instrument that can differentiate carbon tetrachloride from other volatile organic compounds. The samples will be analyzed for chloroform, methylene chloride, and methyl ethyl ketone, in addition to carbon tetrachloride. A minimum level of QC will be performed, including a beginning standard and blank. The data collected during operation and monitoring of the VES system will be organized and maintained on a desktop computer and in the project files. The results will be included in the annual performance evaluation report for carbon tetrachloride vapor extraction operations. The results will also be reported at the M-91 Project Manager Meetings.

Radiological and industrial hygiene surveys will be performed at the HEPA filter and the general VES operations areas, during initial startup and at 1-hour minimum intervals during the first 8-hour shift. As a minimum, radiological and industrial hygiene surveys of the HEPA filter and the general VES operations area will be conducted during the start of operation and periodically during the operation cycle. Radiological surveys will be performed per Health Physics' required radiological surveillance. Industrial Hygiene (IH) surveys will be performed per IH management directions.

Operation of the VES is scheduled to begin before the end of Calendar Year 2006. Design of the VES precludes operation in ambient temperatures below 32 degrees F. As a result, the initial start date and operations schedule may need to be adjusted based on weather conditions.

Following initial operations, vapor extraction will continue on the weekly schedule shown in Table 1 until carbon tetrachloride concentrations measured at the inlet to the primary GAC adsorber are equal to or less than 10 ppmv or as low as reasonably achievable. The VES may be returned to the weekly operations cycle if carbon tetrachloride concentrations start to rise.

VES weekly operation is expected to operate through January 2007, when waste retrieval

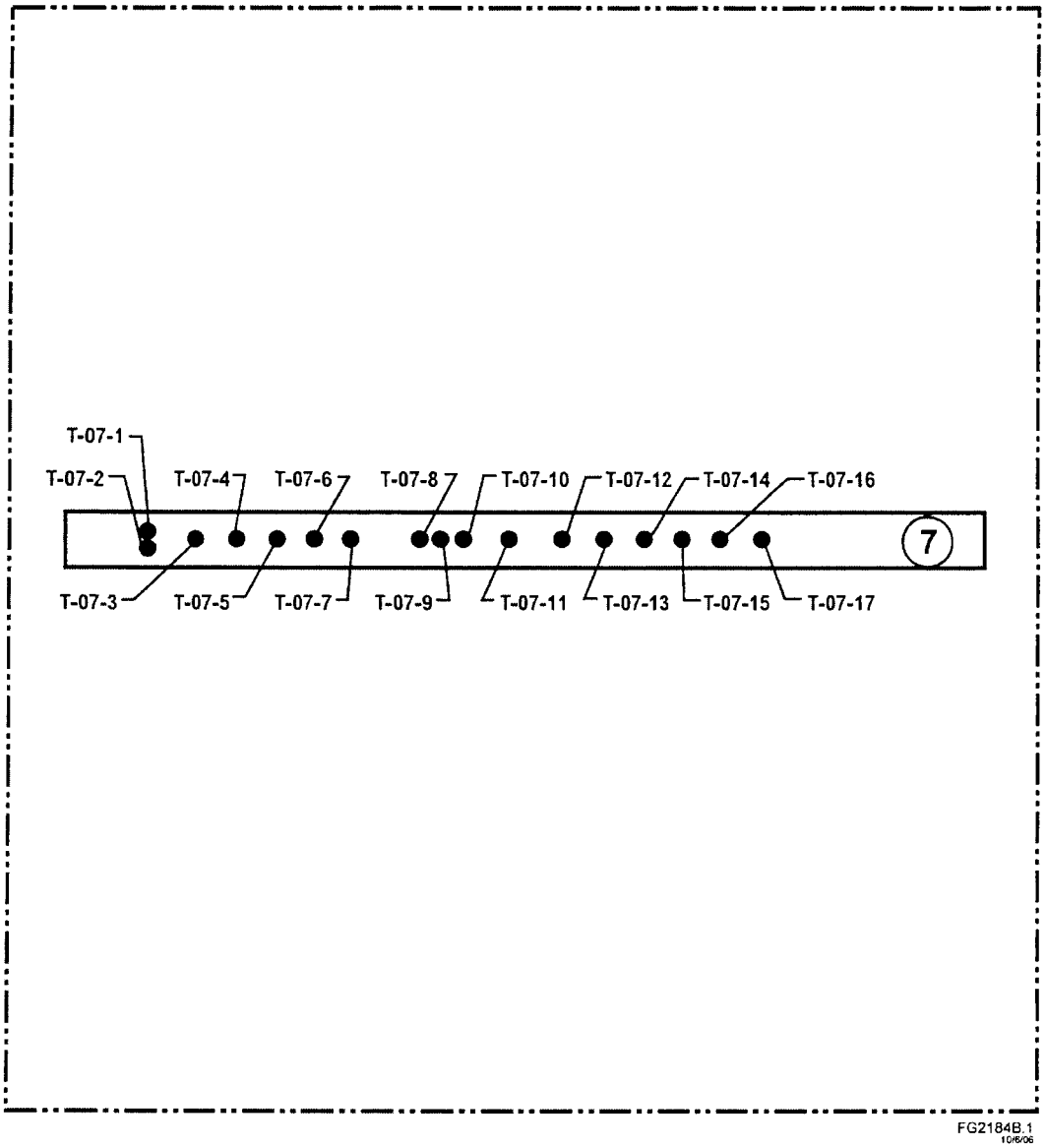
operations at Trench T-07 within the 218-W-4B Burial Ground are anticipated to reach vent risers T-07-4 and T-07-6. If additional vent risers east of vent riser T-07-6 are used as withdrawal points, VES operation may continue beyond January 2007.

Table 1. Weekly Operations Cycle (based on one shift/day).

| | |
|---|---|
| Monday | VES operation and monitoring for 6-hours |
| Tuesday | VES operation and monitoring for 6-hours |
| Wednesday | VES operation and monitoring for 6-hours |
| Thursday | VES operation and monitoring for 6-hours |
| Friday | VES operation and monitoring for 6-hours |
| Saturday | VES offline |
| Sunday | VES offline |

Daily activities are subject to revision based upon VES performance and extra shifts may be added.

Figure 1: Locations of Vent Risers at Trench T-07 in the 218-W-4B Burial Ground




**LEGEND**

(7) Trench Number

● Vent Risers in Areas of Retrievably Stored Waste