



U.S. Department of Energy
Office of River Protection

P.O. Box 450
Richland, Washington 99352

JUL 25 2003

03-ESQ-050

Mr. E. S. Aromi, President
and General Manager
CH2M HILL Hanford Group, Inc.
Richland, Washington 99352

Dear Mr. Aromi:

CONTRACT NO. DE-AC27-99RL14047 – CH2M HILL HANFORD GROUP, INC.
(CH2M HILL) RADIOLOGICAL CONTROL (RADCON) PROCEDURES PROGRAM,
ASSESSMENT REPORT A-03-RADCON-TANKFARM-004, JUNE 16 THROUGH 23, 2003

This letter forwards the results of the subject assessment. The U.S. Department of Energy, Office of River Protection (ORP) assessment team concluded that CH2M HILL was implementing the RadCon Procedures Program according to the requirements of Title 10 Code of Federal Regulations (CFR) Part 835. The team had no Findings but identified five Observations, including one Positive Observation. The Enclosure (A-03-RADCON-TANKFARM-004) documents the details of the assessment. No response is required to the Observations.

The Positive Observation noted the significant improvements CH2M HILL has made in the procedures program, including increased user involvement, consistent use of "play script," greater use of flowcharting and prompt processing of procedure revisions when necessary.

Observations for improvement included:

- Discrepancies in review cycles for administrative and technical procedures compared to the 3-year 10 CFR 835.102 audit requirements.
- Insufficient training of RadCon Technicians in computer access of procedures.
- Inconsistent level of detail in Task Descriptions for performing Required Radiological Surveillances.
- Unclear language in both the administrative and technical "procedures on procedures."

Mr. E. S. Aromi
03-ESQ-050

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If you have any questions, please contact me, or your staff may contact Larry McKay,
Radiological Control Manager, (509) 376-7120.

Sincerely,



Roy J. Schepens
Manager

ESQ:LRM

Enclosure

cc w/encl:

E. E. Bickel, CH2M HILL
J. M. Hobbs, CH2M HILL
E. E. Kennedy, CH2M HILL
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F. M. Roddy, RL
J. D. Voice, RL

Enclosure
03-ESQ-050
A-03-RADCON-TANKFARM-004

U.S. DEPARTMENT OF ENERGY
U.S. Department of Energy, Office of River Protection
Office of Environmental Safety and Quality

ASSESSMENT: CH2M HILL Hanford Group, Inc.
Radiological Control Procedures Program

REPORT NO.: A-03-RADCON-TANKFARM-004

FACILITY: Tank Farms

LOCATION: Hanford Site

DATES: June 16 – 23, 2003

ASSESSMENT TEAM: L. R. McKay, U.S. Department of Energy,
Office of River Protection (Assessment Lead)

F. M. Roddy, U.S. Department of Energy,
Richland Operations Office

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EXECUTIVE SUMMARY

INTRODUCTION

The U.S. Department of Energy, Office of River Protection assessment team (the team) evaluated the CH2M HILL Hanford Group, Inc. (CH2M HILL) Radiological Control (RadCon) Procedures Program to determine if it:

- Met Title 10 Code of Federal Regulations Part 835, Radiation Protection Program (RPP), and Tank Farms Radiological Control Manual requirements.
- Produced procedures that were clear, concise, and contained all the necessary information for the user.
- Exercised necessary rigor and control over the creation, deletion, and revision of procedures.

FINDINGS, OBSERVATIONS, AND CONCLUSIONS

The team concluded that the CH2M HILL RadCon Procedures Program is generally satisfactory. The team had no Findings but identified five Observations, including one Positive Observation.

Observations:

- CH2M HILL has made significant improvements in the procedures program (Observation A-03-RADCON-TANKFARM-004-PO-01, Section 1.2).
- Discrepancies existed between the review cycles for administrative procedures, technical procedures, and the evaluation of each major element of the RPP (five years, two years, and three years respectively [Observation A-03-RADCON-TANKFARM-004-O-01, Section 1.3]).
- RadCon Technicians were primary users of the procedures, but based on interview results, they did not all have adequate computer training to be able to effectively access the procedures (Observation A-03-RADCON-TANKFARM-004-O-02, Section 1.4).
- The level of detail in the Task Descriptions for performing Required Radiological Surveillances was not consistent (Observation A-03-RADCON-TANKFARM-004-O-03, Section 1.5).
- Both the procedures governing administrative and technical procedures contained language that was not clear (Observation A-03-RADCON-TANKFARM-004-O-04, Section 1.5).

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RADIOLOGICAL CONTROL PROCEDURES PROGRAM ASSESSMENT REPORT FOR THE PERIOD OF JUNE 16 – 23, 2003

1.0 REPORT DETAILS

1.1 Introduction

The U.S. Department of Energy, Office of River Protection (ORP) assessment team (the team) evaluated the CH2M HILL Hanford Group, Inc. (CH2M HILL) implementation of the CH2M HILL Procedures Program. It focused on Radiological Control (RadCon) procedures, instructions and standing orders, but also examined two “procedures on procedures” – one for administrative procedures, the other for technical procedures, because these overarching procedures gave general guidance to the style, content, and use of all CH2M HILL procedures.

The team based its conclusions on reviews of procedures and supporting documentation; and on interviews with managers who approve procedures, procedure users (including RadCon Technicians [RCT]) and employees responsible for the maintenance of the records that supported the procedures program.

1.2 Procedure Development

1.2.1 Assessment Scope

The team interviewed CH2M HILL employees responsible for procedure creation, revision, and use. In addition, the team reviewed current procedures, instructions, and standing orders, in addition to those undergoing revision.

1.2.2 Assessment Results

CH2M HILL has made significant improvements in the procedures program (Observation A-03-RADCON-TANKFARM-004-PO-01, Section 1.2).

Functional Technical Authorities (FTA) Accountable for Procedures

CH2M HILL RadCon procedures have all been assigned to specific FTAs with whom the RCTs can discuss their suggestions for improving the procedures. Since a specific FTA is responsible for each procedure, he/she will ensure that it is updated, clear and concise. If there is a revision pending, the FTA will ensure that it is changed in a timely manner since he/she is personally accountable for procedure maintenance.

Increased RCT Involvement in Procedure Validation

As part of the CH2M HILL procedure improvement program, it has encouraged RCTs to validate the procedures to ensure their clarity and workability. The interviewed RCTs said they were pleased with this role, since in many cases, it made their work easier while preserving the compliance with regulations. Including as many RCTs as feasible in the validation process would likely result in greater pride of authorship.

Processing Time for Procedure Revisions Shortened

Depending on priority, CH2M HILL has shortened the time for procedure revisions by developing a more efficient process. Procedure revisions that hold up the progress of work naturally get the fastest turnaround time. The interviews revealed that two-hour turnaround times have been achieved. Routine RadCon procedure revisions have taken several weeks at most to process.

Use of "Play Script" Format

CH2M HILL has converted the procedures to "play script" format in which the procedures list the person to perform each step in the left-hand margin so that it is immediately obvious who is to do what. This clarified the division of responsibility as work progresses through the procedure so that there would be a lot less possibility for miscommunication, especially when the processes are complex and the responsible parties change.

Greater Use of Flowcharting

CH2M HILL has increased the use of flowcharting in their procedures. In addition, CH2M HILL has used the flowcharting process to identify logical gaps in the procedure so these can be resolved prior to the procedure validation. Since the purpose of the flowchart is to ensure that the procedure flows properly, this practice has also helped clarify the procedures and ensure that personnel are less likely to make a mistake in following the procedure.

The team regarded the use of flowcharting as a diagnostic tool to be a creditable practice.

Temporary Procedure Changes Not Used

Given an efficient procedure revision process, CH2M HILL has found no need for a temporary procedure change process and has therefore not developed one. Personnel are less likely to be confused if the revisions are permanent rather than temporary and instructing/training personnel in the use of the procedures can be much less complicated. As a result, personnel have more confidence that they are performing the work correctly.

Feedback to the Workers

The team investigated RCT feedback for procedure changes and collected objective evidence that CH2M HILL RadCon management responded to RCTs for procedure change suggestions. Many suggestions were incorporated into the procedures and the RCTs were able to see the results of their efforts. In cases where the suggested changes were not accepted, a Task Detail Report was prepared by the cognizant FTA and sent to the workers and management explaining the reasons why the suggestions were not accepted. The turnaround time for a recent example of the feedback took eight calendar days. The team considered this turnaround to be reasonably short.

Involvement of the Workers

The team interviewed seven RCTs and found that several of them were requested to validate either new procedures or revisions to existing procedures to ensure their workability. There was an apparent relationship between the RCTs and the FTAs, in which they worked to improve procedures so that productivity was maximized and regulations were met. The team considered this empowerment of the workers to be a good practice and encouraged CH2M HILL management to invite more RCTs to participate in the process.

Dissemination of Procedural Changes

The team investigated the dissemination of changes to the procedures. CH2M HILL employed several methods to ensure that the employees received notice and instruction on changes to procedures. Changes to procedures were published on the CH2M HILL website.

The RadCon Program Manager determined which personnel to inform of changes and assigned the Training and Source Control Health Physicist and the management down through the RadCon supervisors to disseminate the changes. This process was accomplished by informing the staff and RCTs at the morning meetings and through the Required Reading List.

The supervisors discussed procedure changes at the morning meetings and recorded the names of RCTs attending in their logbooks. The RCTs also accessed their individual Required Reading Lists on computers in their offices; the computer logged when they have read the revised procedures and provided reminders for the required reading. The personnel had a choice of signoff on the reading: either click on "Understand" or click on "Do not understand and have questions." The cognizant FTA answered questions, since he/she was the author of that procedure which was revised.

The computer provided the supervisors with a Required Reading List report that listed the documents that have not been read by the RCTs and were overdue. A recent example from the Closure Project (CP) RadCon Manager showed that six of the 11 personnel were current on their reading and that the others were typically overdue by one month (the maximum was six weeks).

The team considered the computerized "tickler file" to be a considerable improvement over the traditional manual method.

Procedure Revision Turnaround Time

RCTs were interviewed to determine typical turnaround time for procedure revisions. The team learned the turnaround time varied from as little as two hours (when the procedure change was necessary in order to resume work) to as long as several weeks. CH2M HILL did use a process for making temporary procedure changes, since permanent changes could be made quickly when needed.

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1.2.3 Conclusion

Observation A-03-RADCON-TANKFARM-004-PO-01 CH2M HILL has made significant improvements in the procedures program.

1.3 Procedure Review

1.3.1 Assessment Scope

The team interviewed CH2M HILL employees responsible for procedure creation, revision, and use. In addition, the team reviewed current procedures, instructions, and standing orders, in addition to those undergoing revision.

1.3.2 Assessment Results

The team found that CH2M HILL's RadCon Procedure Program satisfied the requirements of 10 CFR 835. In addition, the triennial self-assessment program satisfied the audit requirements of 10 CFR 835.102.

However, the team found that discrepancies existed between the review cycles for administrative procedures, technical procedures, and the evaluation of each major element of the RadCon Program (five years, two years, and three years respectively, Observation A-03-RADCON-TANKFARM-004-O-01). Having different review cycle times for the procedures has the potential of creating confusion, including failure to review RPP procedures on the required (10 CFR 835.102) three-year frequency. For example, if an administrative procedure implements the RPP, it must be reviewed on the three-year RPP cycle, not on the five-year administrative procedures cycle. Otherwise, a technical violation of 10 CFR 835.102 would occur.

Procedure Review Cycle Discrepancies

The team reviewed the procedure review requirements in light of the Title 10 Code of Federal Regulations (CFR) Part 835.102 requirement for a three-year "internal audit" of "all functional elements" of the Radiation Protection Program (RPP).

The administrative "procedure on procedures," *Administrative Document Development and Maintenance*, TFC-BSM-AD-C-01, Revision D, dated March 31, 2003, Section 4.12 specified a review every five years. The technical "procedure on procedures," *Technical Procedure Control and Use*, TFC-OPS-OPER-C-13, Revision A-2, dated May 28, 2003, Section 4.7, specified a review every two years. Therefore, there was a discrepancy in the review cycle for RadCon procedures.

The team also reviewed the applicability of the two procedures. The administrative procedure had this scope: "This procedure establishes the process and responsibilities for development, review, approval, use, maintenance, and cancellation of administrative documents." The RadCon procedures were considered administrative procedures and were located with the other Environmental, Safety, Health and Quality (ESH&Q) administrative procedures. The technical

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procedure had this scope: "This procedure establishes the minimum requirements for the Tank Farm Contractor technical procedures. Technical procedures are used for guidance and control of Tank Farm operations, maintenance, surveillance, radiological control, and emergency response." [Emphasis added] Technical procedures included RadCon procedures. However, not all RadCon procedures were technical procedures.

The review cycle for RadCon procedures was unclear, as was whether the triennial audit of the RadCon Program included the procedures for the Program, and whether the audit included a complete review of the procedures, or a sampling, for compliance assurance purposes.

The team expressed the position that procedures for a program such as the RadCon Program are part of that program and that an audit for compliance with a regulation (such as 10 CFR 835.102) would require a thorough one-for-one compliance check. In this manner, the procedures associated with each element of the required program would be audited under the required three-year internal audit. The fact that CH2M HILL has labeled the RadCon procedures as administrative procedures did not relieve it from the responsibility for complying with the requirement for audits at least every three years. The choice of the method for implementing the requirement belongs to CH2M HILL, whether excluding RadCon procedures from the five-year review cycle for administrative procedures, or by classifying RadCon procedures as technical procedures (with a two-year review cycle).

1.3.3 Conclusion

Observation A-03-RADCON-TANKFARM-004-O-01 Discrepancies existed between the review cycles for administrative procedures, technical procedures, and the evaluation of each major element of the RPP (five years, two years, and three years respectively).

1.4 Procedure Training (RCTs)

1.4.1 Assessment Scope

The team interviewed RCTs responsible for implementing CH2M HILL RadCon procedures to determine the scope, depth, and adequacy of the training provided to them on procedures.

1.4.2 Assessment Results

RCTs are primary users of the procedures, but based on interview results, they did not all have adequate computer training to be able to effectively access the procedures (Observation A-03-RADCON-TANKFARM-004-O-03).

Training of RCTs on Computerized Procedure Access

The team interviewed seven RCTs to determine their ease of access to the computerized procedures. In the past, personnel would look up the procedure in a 3-ring binder to determine the proper process. Now the current procedure is maintained on the CH2M HILL website. The

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latest revision to the procedure is assured since the FTAs, in concert with the CH2M HILL Procedures Group, maintain the computerized procedure files.

The team inspected the RCT ready room and found a sufficient number of computers for the RCTs to use to complete their required reading and print out hard copies of procedures they needed.

During the interviews, a substantial percentage of the RCTs mentioned that they were not as comfortable or familiar with computers as they would prefer and that they would typically ask a fellow RCT who was more facile on the computer to help them access procedures.

RadCon procedures were located in various locations on the CH2M HILL website. Because they were not located in one area, and because their location on the website had been changed, the RCTs mentioned some difficulty in finding procedures.

At interview, three RCTs were apparently unaware of the existence of RadCon standing orders, stating that the orders were difficult to find on the CH2M HILL website.

CH2M HILL could benefit from providing the RCTs with short refresher training on use of the computer to access the procedures, especially since RCTs need convenient access to current procedures.

1.4.3 Conclusion

Observation A-03-RADCON-TANKFARM-004-O-02 RCTs were primary users of the procedures, but based on interview results, they did not all have adequate computer training to be able to effectively access the procedures.

1.5 Procedure Content

1.5.1 Assessment Scope

The team examined RadCon Surveillance Task Descriptions and the "procedures on procedures," which provide guidance on the use of CH2M HILL administrative and technical procedures.

1.5.2 Assessment Results

Inconsistent Level of Detail in Task Descriptions

The team reviewed the Task Descriptions for Required Radiological Surveillances, which provided RCTs instructions for performing routine periodic surveys as required by the CH2M HILL RPP, the Tank Farms Radiological Control Manual, and procedure TFC-ESHQ-RP_MON-P-10, Revision A-1, dated January 30, 2003, Required Radiological Surveillances. During the review of the Task Descriptions, the team determined that the level of detail in the

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Task Descriptions for Required Radiological Surveillances was not consistent (Observation A-03-RADCON-TANKFARM-004-O-03).

Some Task Descriptions had survey maps that showed the locations of the components to be surveyed, while others did not. Some of the survey maps even showed specific survey points on the maps that would lead to consistent trending of data. For those without specific survey points or even without maps, there was an instruction included to take the readings at a number of random survey points with the number and locations to be left to the individual RCT's discretion. If the RCT were not thoroughly familiar with the particular component, he/she might not know where the most likely contaminated areas would be and might miss some contamination.

The level of detail of some of the Task Descriptions that had survey maps and specific survey points was impressive. CH2M HILL would benefit from improving the quality of the other Task Descriptions to provide the same level of detail, especially for those components/locations that have the highest radiation or contamination levels.

Unclear Procedure Language:

The team identified an opportunity for improvement: both the procedures governing administrative and technical procedures contained language that was not clear (Observation A-03-RADCON-TANKFARM-004-O-04).

The administrative procedure on procedures, *Administrative Document Development and Maintenance*, TFC-BSM-AD-C-01, Revision D, dated March 31, 2003, Section 4.13.6 stated: "If the procedure being waived implements a TSR requirement(s) (see AB Requirements database at <http://aprfpg02.rl.gov/abrq/> for list of identified HNF-IP-0842 procedures; see the Procedure web site for transition status), obtain approval by the Senior Shift Manager. (Block 22). (7.1.4)." This stated that the Senior Shift Manager has the authority to waive a Technical Safety Requirement (TSR), which is not the case. This step in the procedure needed clarification. The contractor had self-identified this issue and had initiated Revision D-2 of this procedure which was issued on June 23, 2003, and will be effective on June 30, 2003, which has deleted the entire paragraph in question. The contractor's rationale was that administrative procedures did not involve TSRs and, therefore, the statement was irrelevant.

The team concurred with the contractor's resolution of the issue.

The technical procedure on procedures, *Technical Procedure Control and Use*, TFC-OPS-OPER-C-13, Revision A-2, dated May 28, 2003, Section 4.9.9 stated: "If a component (e.g., SALW-PI-6006K) or an alarm number (e.g., Alarm 3) in the procedure does not match the labeling in the field, or if a noun descriptor does not contain sufficient information to accurately identify the component, complete the following substeps: a. Place the equipment in a safe condition. b. Obtain approval to continue using the procedure from the applicable shift manager." Even if the equipment/component was not accurately identified, the work might continue using the procedure on the approval of the shift manager. This wording needed clarification, since the shift manager did not have the authority to continue using a procedure when the components being operated have not been accurately identified.

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The technical procedure on procedures did not specify actions to be taken in the event of a potential to violate TSRs or Operational Safety Requirements. The team was not able to locate a procedure that gave directions to workers on what their response should be if this condition were encountered.

The team included these two procedures in the assessment, since an assessment on procedures should include all procedures used by the RadCon personnel in drafting RadCon procedures. Violations of requirements in these generic "procedures on procedures" could potentially lead to noncompliance with 10 CFR 835 or other regulations.

1.5.3 Conclusion

Observation A-03-RADCON-TANKFARM-004-O-03 The level of detail in the Task Descriptions for Required Radiological Surveillances was not consistent.

Observation A-03-RADCON-TANKFARM-004-O-04 Both the procedures governing administrative and technical procedures contained language that was not clear.

2.0 PRESENTATION OF RESULTS TO CH2M HILL HANFORD GROUP, INC.

The team presented the assessment results to members of CH2M HILL RadCon Management during an exit briefing held on June 23, 2003, and by distributing a "factual accuracy review" draft of the report on June 30, 2003. CH2M HILL acknowledged the findings, observations, and conclusions presented and committed to provide a written response to all Findings after the report is published.

3.0 REPORT BACKGROUND INFORMATION

3.1 Partial List of Persons Contacted

E. E. Bickel, RadCon Program Manager
 D. R. Bristol, Secretary, RadCon Program
 D. L. Cahow, Interpretive Authority Health Physicist
 R. V. Cole, RCT
 D. K. Douglas, RCT
 E. R. Gibson, Technical Writer (Records)
 K. W. Gray, CP RadCon Manager
 K. C. Hartelius, RCT
 D. R. Hekkala, Instrumentation & Dosimetry Health Physicist
 J. W. Hobbs, CP ESH&Q Director
 T. L. Huebner, RCT
 E. E. Kennedy, Waste Feed Operations (WFO) ESH&Q Director

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R. G. Massie, RCT
J. M. McAuley, WFO Projects RadCon Supervisor
R. J. Messmer, Corrective Action Management Health Physicist
B. G. Niederer, RCT
K. S. Rucker, RCT
C. E. Upchurch, WFO RadCon Manager

3.2 List of Assessment Procedures Used

- ORP PD 220.1-1, Revision 0, *Conduct of AMSQ Surveillances*.

3.3 List of Documents Reviewed

Federal Regulations

1. 10 CFR 835, *Occupational Radiation Protection*, Code of Federal Regulations, as amended.

CH2M HILL Procedures

2. TFC-BSM-AD-C-01, Revision D, *Administrative Document Development and Maintenance*.
3. TFC-BSM-AD-C-01, Revision D-2, *Administrative Document Development and Maintenance*.
4. TFC-OPS-OPER-C-13, Revision A-2, *Technical Procedure Control and Use*.

CH2M HILL RadCon Program Documents

5. HNF-5183, Revision 1, *Tank Farms Radiological Control Manual*, dated February 2003.
6. HNF-MP-5184, Revision 3, *CH2M HILL Hanford Group, Inc. Radiation Protection Program*, dated February 28, 2003.

CH2M HILL RadCon Procedures

7. TFC-ESHQ-RP_ADM-P-09, Revision B-1, *Documentation of Radiological Surveys*.
8. TFC-ESHQ-RP_ARP-P-03, Revision A, *Health Physics Technicians Emergency Response Actions*.
9. TFC-ESHQ-RP_ARP-P-04, Revision A, *Continuous Air Monitor Alarm Response*.
10. TFC-ESHQ-RP_INS-P-02, Revision A, *Analyzing Air and Smear Samples for Alpha and Beta Emissions*.
11. TFC-ESHQ-RP_MON-C-14, Revision B, *Contamination Area Controls*.

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12. TFC-ESHQ-RP_MON-C-20, Revision A, *Survey Method for Restoring Outdoor Areas.*
13. TFC-ESHQ-RP_MON-C-23, Revision A, *Release Surveys For Material And Equipment.*
14. TFC-ESHQ-RP_MON-C-23, Revision A, *Release Surveys for Material and Equipment.*
15. TFC-ESHQ-RP_MON-P-10, Revision A-1, *Required Radiological Surveillances.*
16. TFC-ESHQ-RP_RWP-C-03, Revision B, *ALARA Work Planning.*
17. TFC-ESHQ-RP_RWP-C-04, Revision B-2, *Radiological Work Permits.*

CH2M HILL RadCon Instructions

18. RPP-5779, RCI-07, Revision 2, *Performance Testing Alpha and Beta Counting Instruments.*
19. RPP-5779, RCI-10, Revision 1, *Personnel Decontamination.*
20. RPP-5779, RCI-14, Revision 2, *Portable Instrumentation Operating an Performance Test Instructions.*
21. RPP-5779, RCI-22, Revision 1, *Response to Suspected Radon.*
22. RPP-5779, RCI-26, Revision 0, *Radiation Protection Interpretive Authority.*
23. RPP-5779, RCI-28, Revision 1, *Radiological Control Standing Order Guidelines.*
24. RPP-5779, RCI-29, Revision 1, *Radiological Control Logbooks.*
25. RPP-5779, RCI-34 Revision 2, *Documentation of Skin and Clothing Contaminations*

Other Documents

26. TFC-A001, Scheduled Radiation Survey Task Description, Revision 3, dated September 29, 2002, *Survey of Fixed Contamination Areas.*
27. TFC-D007, Scheduled Radiation Survey Task Description, Revision 3, dated September 29, 2002, *Facility Contamination Area Access/Exit Points.*
28. TF-FT-359-009, Revision C-14, *Perform Functional Test for C Farm Transfer Leak Detectors.*
29. Waiver Request 105, dated 1/23/03, for TFC-OPS-MAINT-C-01, *Tank Farm Contractor Work Control.*

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30. Administrative Document Change Authorization for TFC-ESHQ-RP_MON-P-10, Revision A, Verification Checklist, Validation Checklist.
31. Administrative Document Change Authorization for TFC-ESHQ-RP_RWP-C-03, Revision A, and the proposed modified procedure (in progress).
32. CH2M HILL Facility Technical Authorities.
33. Organization Chart for CHG Environmental, Safety, Health and Quality, dated March 27, 2003.
34. Problem Evaluation Request 2003-0726, dated February 19, 2003.
35. Problem Evaluation Request 2003-1281, dated March 28, 2003.
36. Problem Evaluation Request 2003-2032, dated May 29, 2003.
37. Problem Evaluation Request 2003-2059, dated May 22, 2003.
38. Problem Evaluation Request 2003-2138, dated June 4, 2003.
39. Problem Evaluation Request 2003-2223, dated June 19, 2003

3.4 List of Acronyms

CFR	Code of Federal Regulations
CH2M HILL	CH2M HILL Hanford Group, Inc.
CP	Closure Project
ESH&Q	Environmental, Safety, Health, and Quality
FTA	Functional Technical Authorities
ORP	Office of River Protection
PD	Procedure Directive
RadCon	Radiological Control
RCT	Radiological Control Technician
RPP	Radiation Protection Program
TFRCM	Tank Farm Radiological Control Manual
TSR	Technical Safety Requirement
WFO	Waste Feed Operations

E-STARSM Report
 Task Detail Report
 07/25/2003 03:15

TASK INFORMATION

Task#	ORP-ESQ-2003-0046	Status	CLOSED
Subject	CONCUR:03-ESQ-050;CH2M HILL) RADIOLOGICAL CONTROL (RADCON) PROCEDURES PROGRAM, ASSESSMENT REPORT A-03-RADCON-TANKFARM-004, JUNE 16 THROUGH 23, 2003		
Parent Task#		Due	
Reference	03-ESQ-050	Priority	None
Originator	Mosby, Debbie A	Category	None
Originator Phone	(509) 376-9106	Generic1	
Origination Date	07/17/2003 11:30	Generic2	
Remote Task#		Generic3	
Deliverable	None	View Permissions	Normal
Class	None		
Instructions	bcc: ESQ OFF FILE ESQ RDG FILE MGR RDG FILE R. C. BARR, ESQ L. R. MCKAY, ESQ J. S. O'CONNOR, OPA C. J. BOSTED, TOD M. C. BROWN, TOD B. A. HARKINS, TOD B. J. HARP, TOD S. H. PFAFF, TOD G. D. TRENCHARD, TOD K. G. WADE, TOD B. I. WILLIAMSON, TOD D. L. NOYES, TPD		

RECORD NOTE: Closes CARS 5472, Subtask #3.

ROUTING LISTS

1	Route List	Inactive
	<ul style="list-style-type: none"> ● McKay, Larry R - Approve - Approved - 07/17/2003 13:03 ● Barr, Robert C - Approve - Approved with comments - 07/21/2003 16:25 ● Swailes, John H - Approve - Approved with comments - 07/24/2003 10:07 ● O'Connor, Judith S - Approve - Approved - 07/24/2003 15:33 ● Erickson, Leif - Approve - Approved - 07/25/2003 13:41 ● Schepens, Roy J - Approve - Approved - 07/25/2003 15:10 	

ATTACHMENTS

Attachments

1. 03-ESQ-050.enc.A-03-RADCON-TANKFARM-004.doc
2. 03-ESQ-050.Transmittal Ltr - A-03-RADCON-TANKFARM-004.doc

COMMENTS

Poster Barr, Robert C (Hopkins, Dianne) - 07/21/2003 04:07
 Approve
 Lew Miller concurred, Acting ESQ/OSR

Poster Swailes, John H (Struthers, Deborah J) - 07/24/2003 10:07

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Approve

Steve Wiegman signed for John Swailes after Chris Bosted concurred 7/23/03

TASK DUE DATE HISTORY

No Due Date History

SUB TASK HISTORY

No Subtasks

-- end of report --

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E-STARSM Report
Task Detail Report
07/17/2003 11:35

TASK INFORMATION

Task#	ORP-ESQ-2003-0046	Status	Open
Subject	CONCUR:03-ESQ-050;CH2M HILL) RADIOLOGICAL CONTROL (RADCON) PROCEDURES PROGRAM, ASSESSMENT REPORT A-03-RADCON-TANKFARM-004, JUNE 16 THROUGH 23, 2003		
Parent Task#		Due	
Reference	03-ESQ-050	Priority	None
Originator	Mosby, Debbie A	Category	None
Originator Phone	(509) 376-9106	Generic1	
Origination Date	07/17/2003 11:30	Generic2	
Remote Task#		Generic3	
Deliverable	None	View Permissions	Normal
Class	None		

Instructions bcc:
 ESQ OFF FILE
 ESQ RDG FILE
 MGR RDG FILE
 R. C. BARR, ESQ
 L. R. MCKAY, ESQ
 J. S. O'CONNOR, OPA
 C. J. BOSTED, TOD
 M. C. BROWN, TOD
 B. A. HARKINS, TOD
 B. J. HARP, TOD
 S. H. PFAFF, TOD
 G. D. TRENCHARD, TOD
 K. G. WADE, TOD
 B. I. WILLIAMSON, TOD
 D. L. NOYES, TPD

*Record Note: Closes CRAS 5472
Subtask #3.*

ROUTING LISTS

1 Route List Active

- SRAC 7/16/03* • McKay, Larry R - Approve - Awaiting Response
- Refer 7/14/03* • Barr, Robert C - Approve - Awaiting Response
- Swailes, John H - Approve - Awaiting Response *Swales 7/24/03*
- O'Connor, Judith S - Approve - Awaiting Response *Opp 7/24/03*
- Erickson, Leif - Approve - Awaiting Response *Leif 25 July 2003*
- Schepens, Roy J - Approve - Awaiting Response

ATTACHMENTS

- Attachments
- 03-ESQ-050.enc.A-03-RADCON-TANKFARM-004.doc
 - 03-ESQ-050.Transmittal Ltr - A-03-RADCON-TANKFARM-004.doc

COMMENTS

No Comments

TASK DUE DATE HISTORY

No Due Date History

SUB TASK HISTORY

No Subtasks

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