

0069388

RPP-21895, Rev. 2B

241-C-103 and 241-C-109 Tanks Waste Retrieval Work Plan

JS Schofield
CH2M Hill Hanford Group, Inc.
Richland, WA 99352
U.S. Department of Energy Contract DE-AC27-99RL-14047

EDT/ECN: ECN-723507-R0 UC:
Org Code: Charge Code: 502391
B&R Code: Total Pages: 166

Key Words: 241-C-103, 241-C-109, Retrieval, TWRWP, Sluicing

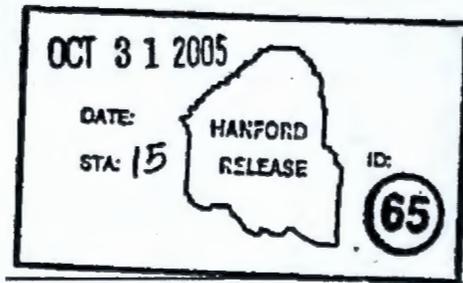
Abstract: This document establishes the C-103 and C-109 Tanks Waste Retrieval Work Plan required by Hanford Federal Facility Agreement and Consent Order.

RECEIVED
APR 27 2006
EDMC

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: Document Control Services, P.O. Box 950, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.

Nancy A. Fouad 10-31-05
Release Approval Date



APPROVED FOR PUBLIC RELEASE

0

CH2M HILL ENGINEERING CHANGE NOTICE	1a. ECN 723507 R 0
Page 1 of 2 <input checked="" type="checkbox"/> DM <input type="checkbox"/> FM <input type="checkbox"/> TM	1b. Proj. ECN N/A - - R

2. Simple Modification <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3. Design Inputs - For full ECNs, record information on the ECN-1 Form (not required for Simple Modifications)	4. Date 6/20/05
5. Originator's Name, Organization, MSIN, & Phone No. John Schofield, Closure Operations, S7-12, 373-2245		6. USQ Number No. - - - -DR- <input checked="" type="checkbox"/> N/A
7. Related ECNs N/A	8. Title Revise RPP-21895 Rev 2A to Rev 2B	9. Bldg. / Facility No. 241-C
10. Equipment / Component ID C-100 Series Tanks	11. Approval Designator E,R	12. Engineering Documents/Drawings to be Changed (Incl. Sheet & Rev. Nos.) RPP-21895, Rev 2A
13. Safety Designation <input type="checkbox"/> SC <input type="checkbox"/> SS <input type="checkbox"/> GS <input checked="" type="checkbox"/> N/A		14. Expedited/Off-Shift ECN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15a. Work Package Number N/A	15b. Modification Work Completed N/A <small>Responsible Engineer / Date</small>	15c. Restored to Original Status (TM) N/A <small>Responsible Engineer / Date</small>
16. Fabrication Support ECN? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

17. Description of the Change (Use ECN Continuation pages as needed)

Replace pages Iv, 2-1, 4-6 and 4-7 in RPP-21895, Rev. 2A with new pages Iv, 2-1, 4-6, 4-7, and add new Appendix D for RPP-21895 Rev 2B.

<p>18. Justification of the Change (Use ECN Continuation pages as needed)</p> <p>Wording change is made on pg 2-1 to maintain document consistency concerning schedule changes with WDOE required wording in RPP-22393 Rev 2B, the C-102, C-104, C-107, C-108 and C-112 TWRWP. Wording is changed on pgs 4-6 and 4-7 to permit drywell moisture monitoring baseline to be obtained with manual system if truck mounted system or the new replacement mobile system cannot be used. A typo error in drywell designation number is also fixed on pg 4-7. Appendix D is added to provide a location for all WDOE approved change notices for this document.</p> <p>No USQ evaluation required, this document does not implement any temporary or permanent changes to the facility or procedures. <i>JSS 10/15/05</i></p>	<p>19. ECN Category</p> <p><input checked="" type="checkbox"/> Direct Revision <input type="checkbox"/> Supplemental <input type="checkbox"/> Void/Cancel</p> <p>ECN Type</p> <p><input type="checkbox"/> Supercedure <input type="checkbox"/> Revision</p>
--	---

20. Distribution			
Name	MSIN	Name	MSIN
KE Carpenter	S7-66	KJ Anderson	S7-67
SD Doss	S7-03	JF Bores	S7-07
RD Smith	S7-90	WF Zuroff <i>JSS 10/13/05</i>	S7-67
RS Robinson	S7-67	WT Thompson	S7-67
RE Butler <i>JSS 10/13/05</i>	S7-75	DB Parkman	S7-67
MN Jaraysi	H6-03	JJ Luke	H6-03
JS Schofield	S7-12	Central Files	B1-07

Release Stamp

OCT 31 2005

DATE: HANFORD
STA: 15 RELEASE ID: 65

CH2M HILL ENGINEERING CHANGE NOTICE	1a. ECN 723507 R 0
Page 2 of 2	1b. Proj. ECN N/A - - R

21. Revisions Planned (Include a brief description of the contents of each revision) None. Note: All revisions shall have the approvals of the affected organizations as identified in block 11 "Approval Designator," on page 1 of this ECN.	22. Design Basis Documents <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	--

23. Commercial Grade Item Dedication Numbers (associated with this design change) N/A	24. Engineering Data Transmittal Numbers (associated with this design change, e.g., new drawings, new documents) N/A
---	--

25. Other Non Engineering (not in HDCS) documents that need to be modified due to this change			
Type of Document	Document Number	Update Completed On	Responsible Engineer (print/sign and date)
Alarm Response Procedure	N/A		
Operations Procedure	N/A		
Maintenance Procedure	N/A		
Type of Document	Document Number	Type of Document	Document Number
N/A		N/A	

26. Field Change Notice(s) Used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Record Information on the ECN-2 Form, attach form(s). Include a description of the Interim resolution on ECN Page 1, block 17, and identify permanent changes.	NOTE: ECNs are required to record and approve all FCNs issued. If the FCNs have not changed the original design media then they are just incorporated into the design media via an ECN. If the FCN did change the original design media then the ECN will include the necessary engineering changes to the original design media.	27. Design Verification Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, as a minimum attach the one page checklist from TFC-ENG-DESIGN-P-17.
--	---	---

28. Approvals			
Facility/Project Signatures	Date	A/E Signatures	Date
Design Authority <u>NA</u>		Originator/Design Agent <u>LE Urbright</u>	
Resp. Engineer <u>RS Robinson</u>	<u>10/5/05</u>	Professional Engineer	
Resp. Manager <u>WT Thompson</u>	<u>10/5/05</u>	Project Engineer	
Quality Assurance <u>NA</u>		Quality Assurance	
IS&H Engineer <u>N/A</u>		Safety	
NS&L Engineer <u>N/A</u>		Designer	
Environ. Engineer <u>SD Does</u>	<u>10-4-05</u>	Environ. Engineer	
Engineering Checker <u>JS Bostick</u>	<u>10/5/05</u>	Other	
Other <u>Rad Engineering: RL Brown</u>	<u>10/5/05</u>	Other	
Other <u>System Engineer: DB Parkman</u>	<u>10-4-05</u>	DEPARTMENT OF ENERGY / OFFICE OF RIVER PROTECTION	
Other <u>Env. Strategies: MN Jaranyi</u>	<u>10/31/05</u>	Signature or a Control Number that tracks the Approval Signature	
Other <u>Project Manager: KE Carpenter</u>	<u>10/04/05</u>	ADDITIONAL SIGNATURES	
Other <u>[Signature]</u>	<u>10/04/05</u>		
Other			
Other			

RPP-21895, Rev. 2B

4.2	LEAK DETECTION AND MONITORING SYSTEM	4-5
4.2.1	Leak Detection and Monitoring for Single-Shell Tanks.....	4-5
4.2.2	Leak Detection in Transfer Lines and Pits.....	4-6
4.2.3	Leak Detection in the Receiver Double-Shell Tank	4-6
4.3	RATIONALE FOR SELECTION OF LEAK DETECTION AND MONITORING TECHNOLOGY	4-6
4.4	LEAK DETECTION FUNCTIONS AND REQUIREMENTS	4-7
4.5	ANTICIPATED TECHNOLOGY PERFORMANCE	4-7
4.6	MITIGATION STRATEGY.....	4-9
4.6.1	Leak Mitigation for Waste Retrieval Tank Leak	4-12
4.6.2	Leak Mitigation for Receiving Tank Leak.....	4-13
4.6.3	Leak Mitigation for Transfer Line Leak.....	4-13
5.0	REGULATORY REQUIREMENTS IN SUPPORT OF RETRIEVAL OPERATIONS.....	5-1
6.0	PRELIMINARY ISOLATION EVALUATION.....	6-1
7.0	PRE-RETRIEVAL RISK ASSESSMENT.....	7-1
7.1	GROUNDWATER PATHWAY IMPACTS.....	7-2
7.1.1	Retrieval Leak Evaluation Methodology.....	7-2
7.1.2	Retrieval Leak Impacts Analysis Results	7-10
7.1.3	Waste Management Area C Risk Assessment.....	7-11
7.2	INTRUDER RISK	7-18
7.2.1	Intruder Scenarios And Performance Objectives.....	7-18
7.2.2	Methodology.....	7-19
7.2.3	Intruder Analysis Results.....	7-23
8.0	LESSONS LEARNED.....	8-1
9.0	REFERENCES	9-1

LIST OF APPENDICES

APPENDIX A – TANK C-103 LONG-TERM HUMAN HEALTH RISK.....	A-i
APPENDIX B – TANK C-109 LONG-TERM HUMAN HEALTH RISK	B-i
APPENDIX C – AVAILABLE INVENTORY AND INVENTORY UNCERTAINTY DATA.....	C-i
APPENDIX D – WASHINGTON STATE DEPARTMENT OF ECOLOGY APPROVED CHANGE NOTICE(S).....	D-i

RPP-21895, Rev. 2B

2.0 TANKS AND/OR ANCILLARY EQUIPMENT CONDITION AND CONFIGURATION AND WASTE CHARACTERISTICS

2.1 RETRIEVAL START DATES

A summary of the current schedule baseline for waste retrieval from the two tanks addressed in this document is provided in Figure 2-1. Current plans include initiating waste retrieval from tank C-103 in late summer 2005 and tank C-109 in mid 2006. The schedule information provided in this document is current as of the first quarter of calendar year 2005. However, the schedules are subject to change due to the time required to resolve the technical challenges that arise in the field during retrieval. DOE will request any schedule changes using the Change Control Form in accordance with Section 12.0 of the HFFACO Action Plan. Changes to the start date that do not affect a major milestone will be considered Class II changes. As shown in Figure 2-1, waste retrieval is planned to be completed within 12 months of the waste retrieval start date for each tank in accordance with HFFACO Appendix I requirements. The waste retrieval durations are estimated based on planning assumptions for operating efficiency and performance of the waste retrieval system (WRS).

2.2 TANK HISTORY

This work plan addresses waste retrieval from two 100-series tanks, C-103 and C-109, located in the C tank farm in the 200 East Area (Figure 2-2). Summary-level historical data related to the configuration and operating history for tanks C-103 and C-109 are provided in Table 2-1.

Table 2-1. Summary-Level Tank Data.*

Tank	C-103	C-109
Constructed	1943-44	1943-44
In service	1946	1948
Diameter (ft)	75	75
Operating depth (in.)	185	185
Design capacity (gal.)	530,000	530,000
Bottom shape	Dish	Dish
Ventilation	Passive	Passive
Nominal burial depth (ft)	6	6
Declared inactive	1979	1976
Integrity	Sound	Sound
Interim stabilized	July 2003	November 1983

* Best-basis inventory AutoTCR documents (4-13-2005) from TWINS, Web Site - <http://twinsweb.pnl.gov/twins.htm>
TWINS = Tank Waste Information Network System.

RPP-21895, Rev. 2B

For tanks C-103 and C-109, the high-resolution resistivity (HRR) system will be deployed in a demonstration mode. Although HRR will not be used for process control, Ecology will be informed if an anomaly, indicating a potential leak, is detected. If, after three months, the status of the anomaly has not been confirmed, Ecology will be consulted as to possible changes in groundwater and analyte monitoring frequency. In-tank process control parameters will be used to supplement the ex-tank methods and provide secondary leak detection. The following sections summarize these methods.

The overall strategy for leak detection during waste retrieval at tanks C-103 and C-109 is to deploy best available technologies for leak detection and leak monitoring. The HRR LDM system will be deployed as a part of a technology demonstration for tanks C-103 and C-109. The HRR LDM system has not been proven on an SST at this time. HRR leak detection has been deployed in a demonstration mode on SST 241-S-102. Following completion of waste retrieval at SST 241-S-102, a leak injection test will be performed to establish how well the HRR system performs in terms of detectable leak volumes and leak monitoring. This test is described in RPP-17191, *SST Deployment Demonstration and Injection Leak Testing of the HRR Long Electrode LDM System*. These first deployments of the HRR system (tanks S-102, C-103, and C-109) and the leak injection test are needed to validate and verify this method before it can be used as a baseline LDM method. During the HRR demonstration deployment, the existing drywells surrounding the tanks will be monitored as the primary leak detection method and mass balance calculations will be performed as a backup. The HRR demonstration deployment will provide valuable operating experience and will be used for data collection and evaluation. HRR will only be used in a demonstration mode on a tank during waste retrieval until a decision is made on whether or not it will be used as a baseline leak detection system during retrieval. Should HRR be validated before completion of waste retrieval, HRR, will at that time, become the primary leak detection system for these tanks and drywell monitoring will be stopped for the retrieval LDM where HRR is the primary LDM system.

Additional detail on the SST leak detection approach is provided in the following sections. Leak detection in the waste transfer system and in the receiver DST will be performed using standard leak detection methods in the transfer pits and DST annulus.

The results from drywell monitoring, as well as a summary and analysis of this monitoring, including tools used, calibration, boreholes logged, depth of logging, frequency, logging rate, and data analysis will be submitted to Ecology within the retrieval data report per Appendix I of the HFFACO.

4.2.1.1. Ex-Tank Leak Detection for Single-Shell Tanks. The existing logging systems or the new monitoring system described below will be used along with manually deployed moisture gauges and gross gamma detectors to monitor soil conditions surrounding the tanks for increases in gamma activity and/or moisture content that may be evidence of tank leakage. The logging systems will be deployed by qualified personnel in accordance with the applicable procedures before waste retrieval operations begin by deploying calibrated gamma and neutron moisture probes over the full depth of each drywell. The pre-retrieval logging results will provide a baseline for selection of specific regions of interest (as well as the region near the base of the tanks). Weekly logging will be performed during waste retrieval operations. Due to operational constraints, this weekly reading may be missed occasionally. Ecology will be informed of missed drywell monitoring. The drywells will be rebaselined within 6 months after retrieval

RPP-21895, Rev. 2B

operations have been completed and will be monitored quarterly for a year to ensure that no new contaminant plumes have developed as a result of the retrieval activity, and that any existing plumes have not been exacerbated.

During waste retrieval, the handheld moisture gauge will be deployed to monitor specific regions of interest in selected drywells for increases in soil moisture content. The handheld moisture gauge will be deployed by qualified personnel in accordance with TO-320-022, *Operate Model 503DR Hydroprobe Neutron Moisture Detection*. The neutron moisture probe is used to monitor the moisture (e.g., water) content in the sediments around the drywells. Manually deployed moisture gauges will be used to monitor the drywells at specific regions of interest, including the interval at the base of the tank that is 35 to 50 ft below grade and any layers with fine sediments. The base of the tank farm excavation represents a zone of material compacted by tank farm construction activity that may affect lateral movement of water in the vadose zone. Likewise, any fine sediment layers would be expected to control accumulation of any moisture associated with a new leak plume. In the event of an unexplained increase in soil moisture content, additional monitoring with the truck-mounted systems will be used if truck access is practical to determine if there have been any changes in gamma-emitting radionuclide concentration surrounding the drywells.

A new, readily transportable drywell logging system capable of concurrent gamma and moisture measurement is being acquired for use in support of waste retrieval operations in the tank farms. The retrieval monitoring system (RMS) will have calibrated neutron moisture and gross (total) gamma detectors on a combined probe. It will provide dual data logs over preselected depth intervals in the drywells. The overall size and portability of the RMS will minimize interference with surface activity, and the capability of collecting both moisture and gamma data in a single log run will result in a significant reduction in the cost of monitoring activities. The new logging system also provides for electronic data recording. When approved for use, the new drywell logging system will be substituted for the hand-held moisture gauge and may also be used in place of truck-mounted logging systems. Drywells with very high gamma activity, such as 30-05-07, may still require the use of the high rate logging system, but it is likely that a high rate detector can be developed for the RMS. Current plans include monitoring of the following drywells:

- **Tank C-103:** 30-03-01, 30-03-03, 30-03-05, 30-03-07, 30-03-09, and 30-06-04.
- **Tank C-109:** 30-09-01, 30-09-02, 30-09-06, 30-09-07, and 30-09-11, 30-06-10, 30-08-02, and 30-09-10.

There is a potential that access to some drywells may be precluded by the placement of equipment, shielding, ALARA (as low as reasonably achievable) concerns, or alterations to the tank farm surface as a part of ongoing waste retrieval activities. Any resulting changes to LDM activities described in this tank waste retrieval work plan will be approved by Ecology within 24 hours through the Change Notice form.

The following background information describes the suite of drywell logging tools, what they measure, and general measurement capabilities that can be used to monitor conditions around the drywells. Details of the drywell monitoring activities, including identification of logging tools and target logging intervals, will be defined in the process control plan or specific procedures.

RPP-21895, Rev. 2B

APPENDIX D

**WASHINGTON STATE DEPARTMENT OF ECOLOGY APPROVED CHANGE
NOTICE(S)**

RPP-21895, Rev. 2B

This blank intentionally blank

RPP-21895, Rev. 2B

**Office of River Protection, State of Washington Department of Ecology
Tank Waste Retrieval Work Plan/Functions and Requirements Modification Notice
(Per Hanford Federal Facility Agreement and Consent Order Section 9.3)**

1. Document Title and Number: RPP-21895, Rev. 2, 241-C-103 and 241-C-109 Tank Waste Retrieval Work Plan		
2. Minor Field Change: (Section 12.4 HFFACO Action Plan) <input type="checkbox"/> Yes: (CH2M HILL Hanford Signature Only – Attach signed form to Primary Document for record purposes) <input type="checkbox"/> No: Proceed to Box 3	3. Document Issue Date: May 2005	5. Notice Number:
	4. Document Modification Notice Date:	
6. Do proposed changes require schedule changes? (Would this extend completion of retrieval beyond 12 months from date of initiation?) <input type="checkbox"/> Yes <input type="checkbox"/> No	7. Do proposed changes include specific additions, deletions, or modification to scope and/or requirements which affect the overall intent of the plan? <input type="checkbox"/> Yes <input type="checkbox"/> No	8. (Check only one box) <input type="checkbox"/> Significant Modification (Check if the answer to question in either section 6 or 7 is "yes". Significant modifications require revision of the primary document.) Minor Modification <input type="checkbox"/> Requires modification of the document <input type="checkbox"/> Can be accomplished with Modification Notice.
9. Description and Justification of Change: Section 4.2.1, pg. 4-6, Revise first paragraph as shown in redline/strikeout below: For tanks C-103 and C-109, the high-resolution resistivity (HRR) system will be deployed in a demonstration mode. Although HRR will not be used for process control, Ecology will be informed if an anomaly, indicating a potential leak, is detected during retrieval . If, after three months, the status of the anomaly has not been confirmed, Ecology will be consulted as to possible changes in groundwater and analyte monitoring frequency. In-tank process control parameters will be used to supplement the ex-tank methods and provide secondary leak detection. The following sections summarize these methods.		
10. Impact of Change: None. Change made at Ecology request, there will be no impact to tank retrieval. Wording was worked out and agreed to between Ecology and CH2M Hill on 6/14/06.		
10. Additional Requirements and/or Provisions: <p align="center">NA</p>		

RPP-21895, Rev. 2B

**Office of River Protection, State of Washington Department of Ecology
Tank Waste Retrieval Work Plan/Functions and Requirements Modification Notice
(Per Hanford Federal Facility Agreement and Consent Order Section 9.3)**

1. Document Title and Number: RPP-21895, Rev. 2A, 241-C-103 and 241-C-109 Tank Waste Retrieval Work Plan		
2. Minor Field Change: (Section 12.4 HFFACO Action Plan) <input type="checkbox"/> Yes: (CHEM HILL Hanford Signature Only - Attach signed form to Primary Document for record purposes) <input checked="" type="checkbox"/> No: Proceed to Box 3	3. Document Issue Date: 6/23/05	5. Notice Number: 100505-1
	3. Document Modification Notice Date: 10/05/05	
6. Do proposed changes require schedule changes? (Would this extend completion of retrieval beyond 12 months from date of initiation?) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Do proposed changes include specific additions, deletions, or modification to scope and/or requirements which affect the overall intent of the plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. (Check only one box) <input type="checkbox"/> Significant Modification (Check if the answer to question in <u>either</u> section 6 or 7 is "yes". Significant modifications require revision of the primary document.) Minor Modification <input type="checkbox"/> Requires modification of the document <input checked="" type="checkbox"/> Can be accomplished with Modification Notice.
9. Description and Justification of Change:		
Description: A) Pg 4-6, Section 4.2.1.1, 1 st paragraph, revise first two sentences from:		
<i>The existing truck-mounted logging systems will be used along with manually deployed moisture gauges and gross gamma detectors to monitor soil conditions surrounding the tanks for increases in gamma activity and/or moisture content that may be evidence of tank leakage. The truck-mounted system will be deployed by qualified personnel in accordance with the existing procedures before waste retrieval operations begin by deploying calibrated gamma and neutron moisture probes over the full depth of each drywell.</i>		
to		
<i>The existing logging systems or the new monitoring system described below will be used along with manually deployed moisture gauges and gross gamma detectors to monitor soil conditions surrounding the tanks for increases in gamma activity and/or moisture content that may be evidence of tank leakage. The logging systems will be deployed by qualified personnel in accordance with the applicable procedures before waste retrieval operations begin by deploying calibrated gamma and neutron moisture probes over the full depth of each drywell.</i>		
B) on Pg. 4-7 change typo in drywell number from 30-06-04-18 to 30-06-04.		
C) In Section 2.1 revise the wording concerning schedule changes to be consistent with wording requested by Ecology for Section 2.1 of the C-102, C-104, C-107, C-108 and C-112 TWRWP, RPP-22393 Rev 2B.		

RPP-21895, Rev. 2B

Office of River Protection, State of Washington Department of Ecology
 Tank Waste Retrieval Work Plan/Functions and Requirements Modification Notice
 (Per Hanford Federal Facility Agreement and Consent Order Section 9.3)

Justification: A) Several issues currently prevent obtaining drywell moisture scans using a mobile system.

- 1) The retrieval equipment around C-103 prevents access to some of the C-103 drywells with the existing neutron moisture detection truck system due to the truck's size.
- 2) The new small mobile combination gamma and neutron system planned for deployment this year uses a permanently installed neutron source. Requirements for providing a security lock for storage of this equipment with the permanently installed source plus a recent related PAAA problem with control of radiological sources has temporarily delayed deployment of this system. When available for deployment, the mobile RMS (retrieval monitoring system) can be used to replace both the truck mounted gamma and hand-held or truck mounted neutron measurement systems.

Delaying C-103 retrieval indefinitely until any of these issues is resolved is unacceptable. The alternative is to use a manually deployed neutron probe to obtain pre-retrieval drywell moisture scans.

There is no impact to obtaining pre-retrieval truck mounted gamma scans.

B) Typo change made to reflect correct drywell number

C) Schedule change wording made for consistency with latest agreed to wording with Ecology.

10. Impact of Change:

- A) Negligible impact. The baseline moisture scan for each drywell may be obtained manually rather than with a mobile system.
- B) No impact.
- C) No impact

10. Additional Requirements and/or Provisions¹:

Approvals

CH2M HILL Hanford Group, Inc.	Office of River Protection	State of Wash., Dept. of Ecology
<input type="checkbox"/> Provisional Approval ² Date	<input type="checkbox"/> Provisional Approval ² Date	<input type="checkbox"/> Provisional Approval ² Date
<input checked="" type="checkbox"/> Final Approval Date 10/13/05	<input checked="" type="checkbox"/> Final Approval Date 10/26/05	<input checked="" type="checkbox"/> Final Approval Date 10/26/05

Notes

- 1 - For use by Ecology to identify any additional information needed to make a decision regarding the request for modifications. In addition, Ecology will identify actions, if any, regarding the modification request that DOE may take pending Ecology's final decision
- 2 - Provisional approval allows DOE and it's contractors to take specific actions identified in section 10, prior to final approval of this modification.