

**Office of River Protection, State of Washington Department of Ecology
Change Notice
(Per Hanford Federal Facility Agreement and Consent Order Section 9.3)**

1. Document Title and Number: RPP-12711 Rev. 6A, "Temporary Waste Transfer Line Management Program Plan"		
2. Minor Field Change: (Section 12.4 HFFACO Action Plan) <input type="checkbox"/> Yes: (WRPS Signature Only – Attach signed form to Primary Document for record purposes) X NO: Proceed to Box 3	3. Document Issue Date: 9/3/2010	5. Notice Number: 2011-4
	4. Document Modification Notice Date: 8/22/11	
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 X Requires modification of the document X Can be accomplished with Modification Notice.
9. Description and Justification of Change: Change Description: RPP-12711, "Temporary Waste Transfer Line Management Program Plan", Rev. 6A, must be updated to reflect the additions of HIHTLs in support of SST C-107 waste retrieval. Justification: This change adds the in-pit leak detection method in Table A-1 (replace page A-13 and add pages A-18B and A-18C). Also, add the pit hold-up/estimated time for leak detection in Table A-2 (add pages A-33B and A-33C).		
10. Impact of Change: None.		
11. Additional Requirements and/or Provisions ¹ :		
<u>Approvals</u>		
Washington River Protection Solutions, LLC.	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 9/9/11 <i>[Signature]</i>	<input checked="" type="checkbox"/> Final Approval Date 9/7/11 <i>[Signature]</i>	<input checked="" type="checkbox"/> Final Approval Date 8-30-11 <i>[Signature]</i>

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 its contractors to take specific actions identified in section 11, prior to final approval of this modification.

Table A-1. In-Pit Leak Detection Methods and Limitations.

Pit		Leak Detection				
Pit Location	Pit Type	Transfer Line Type, EIN, and Connecting Pit	Device	Method	Modification	Limitation
C Farm (located between C-108 and C-109)	Portable Diversion Box (POR209) (VI File 50307 Supplement 4 & 10, ES-C35-VP-1)	Hose-in-Hose Transfer Line I-65376-0-01 (to C-110 Sluice Box at Riser-007)	In-Line Leak Detector (H-2-34965-010)	Waste pools and leak detector alarms after 1" accumulation on pit floor.	Sump pump used to remove waste in case of leak.	Waste must fill the encasement before waste can be detected by the Diversion Box In-Line Leak Detector and alarm when 1" of liquid is accumulated. If POR209 and POR104 are set at the same elevation, waste must accumulate in both structures to the alarm level.
		Hose-in-Hose Transfer Line I-65376-0-03 (to C-110 Saltwell Pump Pit)				
		Hose-in-Hose Transfer Line I-65376-0-02 (to C-110 Sluice Box at Riser-002)				
		Hose-in-Hose Transfer Line I-12023-0-06 I-71065-0-01 (to POR104 Portable Valve Pit)				
		Hose-in-Hose Transfer Line I-12023-0-05 I-57780-0-04 (to POR104 Portable Valve Pit)				
		Hose-in-Hose Transfer Line I-63204-0-01 (2" HIHTL-C107-SN-101 to POR240 Portable Instrument and Valve Box)				
		Hose-in-Hose Transfer Line I-63204-0-02 (2" HIHTL-C107-SL-101 to POR240 Portable Instrument and Valve Box)				

Added by
ECN-10-00119

A-13

RPP-12711, Rev. 6B

Table A-1. In-Pit Leak Detection Methods and Limitations.

Pit		Leak Detection				
Pit Location	Pit Type	Transfer Line Type, EIN, and Connecting Pit	Device	Method	Modification	Limitation
C-107 (located adjacent to central riser)	Portable Instrument and Valve Box (POR240) (H-14-108007)	Hose-in-Hose Transfer Line I-53390-0-20 (POR240 to POR237 Containment Box)	In-Line Leak Detector (H-14-108101)	Waste pools and leak detector alarms after 1" accumulation in valve box sump.	Sump pump used to remove waste in case of leak.	None.
		Hose-in-Hose Transfer Line I-53390-0-19 (POR240 to POR237 Containment Box)				
		Hose-in-Hose Transfer Line I-53390-0-18 (POR240 to POR237 Containment Box)				
		Hose-in-Hose Transfer Line I-53390-0-17 (POR240 to POR237 Containment Box)				
		Hose-in-Hose Transfer Line I-63204-0-01 (2" HIHTL-C107-SN-101 to POR209 Diversion Box)				
		Hose-in-Hose Transfer Line I-63204-0-02 (2" HIHTL-C107-SL-101 to POR209 Diversion Box)				

A-18B

RPP-12711, Rev. 6B

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Table A-1. In-Pit Leak Detection Methods and Limitations.

Pit		Leak Detection				
Pit Location	Pit Type	Transfer Line Type, EIN, and Connecting Pit	Device	Method	Modification	Limitation
C-107 (located over central riser)	Containment Box (POR237) (H-14-107937)	Hose-in-Hose Transfer Line I-53390-0-20 (POR237 to POR240 Portable Instrument and Valve Box)	In-Line Leak Detector (H-2-34965-010)	Waste pools and leak detector alarms after 1/2" accumulation on floor.	Plug is installed in 1/2" low-point waste drain leading back to tank.	Waste must fill the encasement before waste can be detected by the Pit In-Line Leak Detector and alarm when 1/2" of liquid is accumulated on pit floor. Due to leak detector being recessed 1/2" below the floor of the containment box, actual waste depth at leak detector is 1" at the point of leak detection.
		Hose-in-Hose Transfer Line I-53390-0-17 (POR237 to POR240 Portable Instrument and Valve Box)				
		Hose-in-Hose Transfer Line I-53390-0-18 (POR237 to POR240 Portable Instrument and Valve Box)				
		Hose-in-Hose Transfer Line I-53390-0-19 (POR237 to POR240 Portable Instrument and Valve Box)				

A-18C

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RPP-12711, Rev. 6B

Table A-2. Transfer Line and Pit Hold-up/Estimated Time for Leak Detection.

A	B	C	D	E	F	G	H	I	J	K	L	M
Hose					Pit				Total Volume and Time @ 2 gpm			Min. Detectable Leak Rate in Pit ⁽⁴⁾ (gpm)
Transfer Line Type and EIN ⁽¹⁾	Transfer Line Length (ft)	Hold-up Volume of 4-in. annulus (gal) ⁽²⁾	Time to fill hose @ 2 gpm Leak (min)	HIHTL Assembly Drawing	Pit	Hold-up Volume of 1 in. (gal)	Time to fill Pit to 1 in. (min) ⁽³⁾	Pit Drawing	Total Hold-up Volume (Col C+G) (gal)	Total Time (Col D+H) (min)	Total Time (hr)	
HIHTL I-63204-0-01 2" HIHTL-C107-SN-101 (Hose #18)	265	91.2	45.6	H-14-107326	POR209 Diversion Box	108.6	108.6	H-14-107391	199.8	154.2	2.57	0.14
					POR240 Instrument & Valve Box	46.9	23.4	H-14-108007	138.1	69.0	1.15	0.10
HIHTL I-63204-0-02 2" HIHTL-C107-SL-101 (Hose #19)	260	89.5	44.8	H-14-107326	POR240 Instrument & Valve Box	46.9	23.4	H-14-108007	136.4	68.2	1.14	0.10
					POR209 Diversion Box	108.6	108.6	H-14-107391	198.1	153.4	2.56	0.14
HIHTL I-53390-0-20 (SLURRY)	7	2.4	1.2	H-14-108102	POR237 Containment Box	74.3	37.2	H-14-107950	76.7	38.4	0.64	0.05
					POR240 Instrument & Valve Box	1.5 (sump)	0.8	H-14-108007	3.9	2.0	0.03	0.003
HIHTL I-53390-0-17 (SUPERNATE 1)	7	2.4	1.2	H-14-108102	POR240 Instrument & Valve Box	1.5 (sump)	0.8	H-14-108007	3.9	2.0	0.03	0.003
					POR237 Containment Box	74.3	37.2	H-14-107950	76.7	38.4	0.64	0.05

A-33B

RPP-12711, Rev. 6B

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