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Interface Control Document Between the Tank Farm System and the Central Waste Complex (CWC) or the Low-Level Burial Ground

Thomas H. May

Numatec Hanford Company

Richland, WA 99352

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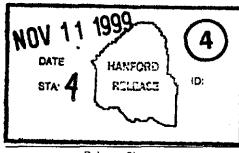
Central Waste Complex, CWC, Low-Level Burial Ground, LLBG

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INTERFACE CONTROL DOCUMENT FOR THE TANK FARM SYSTEMS AND THE CENTRAL WASTE COMPLEX OR LOW-LEVEL BURIAL GROUND

September 1999

T. H. May Numatec Hanford Corporation Richland, Washington

Approved by:

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Prepared for: Office of River Protection Richland, Washington

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TERMS

CWC	Central waste Complex
DST	Double Shell Tank
ICD	Interface Control Document
	7 7 10 110 1

Low Level Burial Ground LLBG

Low Level Waste LLW

Mixed Low Level Waste MLLW Nuclear Process Operator NPO River Protection Project **RPP**

Single Shell Tank **SST**

Solid Waste Integrated Forecast Technical **SWIFT** Solid Waste Inventory Tracking System **SWITS**

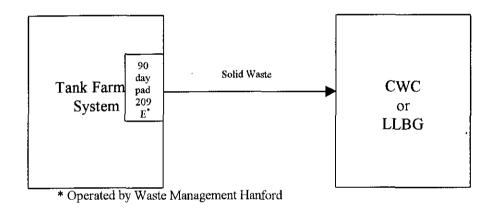
Technical Basis Review **TBR** Transuranic mixed waste TRU(M)

INTERFACE CONTROL DOCUMENT FOR THE TANK FARM SYSTEMS AND THE CENTRAL WASTE COMPLEX OR LOW-LEVEL BURIAL GROUND

1.0 SCOPE/PURPOSE

This Interface Control Document (ICD) describes the interface between the Tank Farm System and the Central Waste Complex (CWC) or the Low-Level Burial Ground (LLBG) (see Figure 1). The Tank Farm System generates solid waste during operations. These facilities do not have a direct physical interface since the waste will be moved by truck to the CWC or LLBG.

Figure 1. Interface Control Between the Tank Farm Systems and the Central Waste Complex or Low-Level Burial Ground.



The purpose of the ICD process is to formalize working agreements between the River Protection Project (RPP) Tank Farm System and organization/companies internal and external to RPP. This ICD has been developed as part of the requirements basis for design of the DST System to support the Phase I Privatization effort.

The signatures on the cover page of this document indicate agreement between the parties that this document reflects the current technical baseline for each system and that the requirements contained in this document will not be revised without the agreement of all parties.

2.0 INTERFACE DESCRIPTION

The Tank Farm System generates solid waste, such as contaminated tools or construction debris during routine operations, maintenance, and project activities within the tank farm facilities. This includes incidental waste generated by the Characterization Project. Tank farm personnel place the solid waste into appropriate waste containers such as drums or burial boxes. Waste

Management Hanford will move the containers to the 90-day storage pad. Waste Generator Services (Waste Management Hanford) personnel will then utilize trucks to move waste from the 90-day storage pad to the CWC. Radioactive waste that does not contain federal or state regulated hazardous constituents may be direct disposed in the LLBG. Tank farm personnel provide documentation on waste origin and composition to Waste Generator Services, Waste Generator Services completes the necessary forms and enters the information into the Solid Waste Inventory Tracking System (SWITS). This interface is described and controlled in Technical Basis Review (TBR) Narratives 190.936 and 190.938 of the Level 1 Logic.

This ICD defines the functional interface and requirements regarding the amount, timing and properties of the waste planned to be delivered to the CWC as a result of Tank Farm System operations.

CWCs primary mission is safe storage of radiologically and chemically contaminated waste and equipment generated throughout the Hanford Site. This waste includes non-regulated, hazardous, radioactive and mixed wastes. CWC also provides waste inspection services to various Hanford facilities.

The LLBG are a land disposal unit for controlled burial of low-level radioactive waste. The unlined disposal trenches can accept only radioactive waste not regulated for hazardous constituents under federal or state regulations.

3.0 ITEMS PASSED ACROSS INTERFACE

This section contains the item descriptions and interface requirements associated with each item passed across the interface as defined in section 2.0 above. These interface requirements are intended to be bounding requirements for the design requirements contained in HNF-SD-WM-007. For current operational estimates of waste volumes and timing, refer to the most current revision of the Solid Waste Integrated Forecast Technical Report (SWIFT HNF-EP-0918).

3.1 RIVER PROTECTION PROJECT SOLID WASTE

Waste retrieved from DSTs that is transferred to the CWC.

3.1.1 Maximum RPP Mixed Low-Level Waste and Transuranic (M) Volume

For the life cycle of site (1999-2070), the CWC system shall accept up to 50,410 m³ of mixed low-level waste (MLLW) and transuranic waste (both non-mixed and mixed) (TRU(M)) as identified in the most current version of SWIFT. The waste must meet the waste acceptance criteria contained in the Hanford Site Solid Waste Acceptance Criteria HNF-EP-0063, Rev. 5 (or

the most current version). Waste handling in RPP is controlled by TO-100-052 and TO-100-045.

3.1.2 Maximum RPP Low-Level Waste Volume

For the life cycle of site (1999-2070), the CWC system shall accept up to 63,430 m³ of low-level waste (LLW) as identified in the most current version of SWIFT. Radioactive waste not managed due to hazardous constituents may be direct disposed in the LLBG. The waste must meet the waste acceptance criteria contained in the *Hanford Site Solid Waste Acceptance Criteria*, HNF-EP-0063, Rev. 5 (or the most current version). Waste handling in RPP is controlled by TO-100-052 and TO-100-045.

4.0 ISSUES LIST

The following issues do not affect this ICD at this time, but may affect the ICD when they are resolved.

4.1 SUPER COMPACTION CONTRACT

The Hanford site super-compaction contract is extended on a year to year basis. If the contract is not extended, volumes of low level waste will increase. Then the program costs will escalate due to increased disposal volumes, increased costs for wood burial boxes, and increased work scope to process the higher volume of waste.

4.2 90 DAY PADS

Failure to transfer waste from a 90-day pad to a permitted treatment storage or disposal facility within 90 days from the accumulation date is a violation of State and Federal regulations. A notice of violation could result in penalties and/or fines.

5.0 INTERFACE DIAGRAM

This section provides a 'roadmap' to lower level ICDs that have been, or will be, developed to define and control the specific physical interfaces and interface requirements between specific elements of the Tank Farm System and CWC.

For this interface, there are no lower level ICDs.

6.0 REFERENCES

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- PHMC, 1998, Perform Inspection of Active Packages, Satellite Accumulation Areas, Storage Areas, and Related Tasks, TO-100-045, Rev. D-4, Lockheed Martin Hanford Corporation, Richland, Washington.

Continuation sheet for EDT 625290 Central Waste Complex Distribution

Reason	Disposition	Name	MSIN
3		T. B. Veneziano	H8-66
3		H. L. Boston	H6-64
3		D. I. Allen	R2-50
3		M. A. Payne	R2-58
3 3 3 3		M. D. Ebben	H7-07
3		E. E. Mayer	R2-50
3		J. E. Ferguson	H7-06
3		S. D. Brumley	H7-07
3		R. L. Treat	H6-64
3		R. W. Powell	R3-75
3 3		W. T. Thompson	R3-73
3		C. J. Rice	R2-53
3 3 3 3 3 3		R.W. Root	R2-53
3		R. A. Dodd	R3-72
3		A. F. Choho	R3-73
3		D. M. Hammond	R1-49
3		R. D. Potter	R3-73
3		E. W. Dunbar	K8-95
		S. M. O'Toole	R2-53
3		R. F. Wood	H7-07
3		T.M. Blaak	S5-13
3		D.G. Baide	S5-05
3 3		J.B. Buckley	T3-04
3		D.J. Carrell	R1-51
3 3		T.J. Conrads	R3-73
3		C. Defigh-Price	R2-12
3		B.G. Erlandson	R1-51
3		K.D. Fowler	R2-11
3		C.E. Grenard	R3-73
3		K.M. Hall	R2-12
3		D.B. Hardy	T6-12
3		G.A. Hofferber	B1-45
3		N.W. Kirch	R2-11
3		T. Laney	S5-05
3		R.E. Larson	T4-07
3		M.W. Leonard	B1-45
3		A.K. McDowell	T3-05
3		P.C. Miller	R1-51
3		C.H. Mulkey	R1-51
3		O.D. Nelson	R3-74
3		Y.M. Shehadeh	T3-04

3	D.L. Sparks	S5-03
3	J.J. Street	T3-04
3	G.C. Triner	T3-05
3	R.P. Tucker	T4-07
3	M.S. Waters	T3-05

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