

LOW-LEVEL WASTE FORECASTING
ASSESSMENT FOR THE IDAHO
NATIONAL ENGINEERING AND
ENVIRONMENTAL LABORATORY

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C. K. Mullen

August 2003

Prepared for:
U.S. Department of Energy
Idaho Operations Office
Idaho Falls, Idaho

Idaho Completion Project

Bechtel BWXT Idaho, LLC

Low-Level Waste Forecasting Assessment for the Idaho National Engineering and Environmental Laboratory

**M. K. Adler Flitton
C. K. Mullen**

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Idaho National Engineering and Environmental Laboratory

Idaho Falls, Idaho 83415

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5.	Summary:	<p>This Engineering Design File (EDF) was originally developed to determine a “best-estimate” forecast for the generation of contact-handled (CH) and remote-handled (RH) low-level radioactive waste (LLW) at the Idaho National Engineering and Environmental Laboratory (INEEL) and to use this forecast to predict when the remaining capacity of the active CH-LLW disposal pit and the RH-LLW concrete vaults at the Radioactive Waste Management Complex (RWMC) Subsurface Disposal Area (SDA) will be consumed. This revision of the EDF provides CH-LLW and RH-LLW disposal volume forecast through FY 2050 with no evaluations of onsite or offsite disposal capacity. Evaluations of onsite and offsite disposal capacity planning are considered in other LLW planning activities. The disposal volume forecast information is also used for operation budget planning.</p> <p><u>EDF Revision History</u></p> <p>EDF 787 – Rev. 1: Modified Section 2.3.4 (Forecasted Life Span of the RWMC) and added Appendix C to account for the volumetric efficiency of disposal container stacking in the RWMC active disposal pit.</p> <p>EDF 787 – Rev. 2: Updated actual generation rates through calendar year 1995 and modified “best-estimate” forecast to use historical accuracy of waste generators to determine volume projections as oppose to a static generation rate based on historical generation. Trends indicate the generation rates and projections are decreasing, and the use of a static generation rate, as in revision 1, would not convey this trend.</p> <p>EDF 787 – Rev. 3: Updated actual generation rates through calendar year 1996 and modified the ten-year forecast using the most recent generation submittal. Removed historical accuracy and best-estimate forecast for CH-LLW. The percentage of processible and non-processible CH-LLW was recalculated using historical shipments for calendar year 1987-1996 plus current storage inventory. For the processible CH-LLW, the percentage split for incineration, compaction, and sizing was also recalculated.</p> <p>EDF 787 – Rev. 4: Updated actual generation rates through calendar year 1997 and modified the ten-year forecast using the most recent generation submittal. Deleted non-applicable CH-LLW disposal scenarios. Added additional RH-LLW disposal scenarios. Removed historical accuracy and best-estimate forecast for RH-LLW.</p> <p>EDF 787 – Rev. 5: Updated actual generation rates through calendar year 1998. Updated actual versus forecast disposal. Modified the ten-year forecast using the most recent generation submittal. Transitioned to Advanced Visualization System (AVS) information for identifying LLW generation from programs other than the historical onsite generators. Deleted Chapter 4.0, identifying programs of future LLW generators as this function is now an inherent part of the AVS. Deleted incineration at WERF for CH-LLW as a disposal scenario. Changed RH-LLW scenarios to reflect two concrete vault utilization scenarios.</p>		

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<p>EDF 1591 – Rev. 0: Updated EDF 787 with new document control number. Updated actual generation rates through calendar year 1999. Updated actual versus forecast disposal. Modified the 10-year forecast using the most recent 5-year forecast submittal and verification information from facility points-of-contact. Transitioned from the AVS to Integrated Planning, Accounting, Budgeting, and Scheduling Information System (IPABS-IS) for identifying LLW generation from programs (HLW, MLLW, D&D, and ER) as well as inter-site generators. Transitioned to disposal scenarios for CH-LLW rather than treatment scenarios based on new governing documentation of the Waste Management Programmatic Environmental Impact Statement. Transitioned vault utilization calculations from overall volumetric efficiencies to vault utilization based on volume disposed per vault. Added Appendix C to provide supplemental NRF lifetime scenarios. Added Appendix D to include LLW Disposition Map and IPABS-IS core stream information for INEEL.</p> <p>EDF 1591- Rev.1: Updated actual generation rates through fiscal year 2000. Updated actual versus forecast disposal. Modified forecast to lifecycle forecast using the most recent generation submittal. Updated IPABS-IS information for identifying LLW generation from programs (HLW, MLLW, D&D, ER, and TRU (AMWTF)) and from inter-site generators (NRF and ANL-W). Developed only one planning scenario each for CH-LLW and RH-LLW. Included new section (2.3) for inclusion of Waste with No Path Identified into Waste Management Programmatic Planning. Transitioned Appendix C to include alternate scenarios. Added Appendix E to include a description of forecasting methods.</p> <p>EDF 1591- Rev.2: Updated actual LLW disposal rates through fiscal year 2001. Updated actual versus forecast disposal. Modified forecast to lifecycle forecast using the most recent generation submittal. Updated Draft of IPABS-IS input information for identifying LLW generation from programs (HLW, MLLW, D&D, ER, and TRU (AMWTP`)) and from inter-site generators (NRF and ANL-W) as of the end of May 2002. (As of the date of this revision the data remains in a Draft state due to the closure to input data into IPABS-IS and the unknown impacts of the 2012 Plan on LLW generating programs.) Revised the section of Waste with No Identified Path to Disposal based on recent information on waste characterization. Introduce new section (2.4) for inclusion of radionuclide inventory as required by the IPABS-IS but does not detail the radionuclide inventory as the 2012 Plan will impact the Performance Assessment. Appendix A and C titles remain but details were not developed for this revision. Appendix D updates the LLW Disposition Map but does not update the IPABS-IS DRAFT working core stream information for the INEEL. Started the transitioning of the EDF from evaluating onsite disposal capacity analysis to offsite disposal planning to support the 2012 Plan LLW key milestones to discontinue CH-LLW onsite disposal by the end of 2008 and RH-LLW by the end of 2009.</p> <p>EDF 1591- Rev. 3: Updated actual LLW disposal rates through fiscal year 2002. Updated actual versus forecast disposal. Modified disposal volume forecast to lifecycle disposal volume forecast using the most recent disposal submittals from the Waste Generator Facility Representatives. Removed INEEL RWMC SDA specific disposal pit capacity assessments and scenarios. Removed discussions for including waste with no path to disposal and radionuclide inventory. Incorporated company restructuring for ICP and INEEL organizational structure. The document’s purpose is now simply a forecast for LLW volume disposal instead of LLW volume generation.</p>			

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(See instructions for definitions of terms and significance of signatures.)

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APPENDICE

Appendix A. Waste Generator Facility Representative Work Sheets.

ACRONYMS

AMWTP	Advanced Mixed Waste Treatment Project
ANL-W	Argonne National Laboratory-West
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	Central Facilities Area
CH	contact-handled
D&D	Decontamination and Decommissioning
DOE	United States Department of Energy
EDF	Engineering Design File
ER	Environmental Restoration
FY	Fiscal Year
GEM	Glovebox Excavation Method
HLW	high-level waste
ICP	Idaho Completion Project
INEEL	Idaho National Engineering and Environmental Laboratory
INL	Idaho National Laboratory
INTEC	Idaho Nuclear Technology and Engineering Center
IRC	INEEL Research Center
IWAC	INEEL Waste Acceptance Criteria
LLW	low-level radioactive waste
MLLW	mixed low-level waste
NRF	Naval Reactors Facility
PBF	Power Burst Facility
PBI	Performance Based Initiative
RH	remote-handled
RWMC	Radioactive Waste Management Complex
SDA	Subsurface Disposal Area
SMC	Specific Manufacturing Capability
TAN	Test Area North
TANO	Test Area North Operations
TRA	Test Reactor Area
TRU	transuranic
WERF	Waste Experimental Reduction Facility
WGS	Waste Generator Services
WROC	Waste Reduction Operations Complex

1. INTRODUCTION

Low Level Waste (LLW) is and will continue to be generated at the Idaho National Engineering and Environmental Laboratory (INEEL) as a result of various nuclear reactor research projects, nuclear fuel handling operations, reprocessing, decontamination and decommissioning (D&D) projects, and other research-related endeavors for the Department of Energy (DOE) and Department of Defense. DOE O 435.1 requires projections of radiological wastes generated at DOE operations to ensure that sufficient disposal capacity will be available, either within DOE and/or commercially operated facilities. An annual revision of this Engineering Design File (EDF) provides a lifecycle for LLW disposal volume forecast as stated in the scope section.

The disposal volume forecast addresses three groupings of LLW generators by facilities:

- 1) Idaho National Laboratory (INL), which includes Specific Manufacturing Capability (SMC), Test Reactor Area (TRA), Idaho Research Center (IRC) and Argonne National Laboratory West ANL-W (Argonne National Laboratory West),
- 2) Idaho Completion Project (ICP), which includes Radioactive Waste Management Complex (RWMC), Test Area North Operation (TANO), Idaho Nuclear Technology and Engineering Center (INTEC), Waste Reduction Operations Complex/ Power Burst Facility (WROC/PBF), Central Facilities Area (CFA) and
- 3) Other, which includes Advanced Mixed Waste Treatment Project (AMWTP), Naval Reactors Facility (NRF) and Spent Nuclear Fuel Dry Storage Facility (SNFDSF).

Waste Generator Services (WGS) facility representatives are requested to submit an annual updated lifecycle forecast of LLW volumes requiring disposal for each facility for which they have responsibility. See Appendix A, "Waste Generator Facility Representative Work Sheets." The facility representatives were provided a pre-formatted table to record LLW disposal volume forecast data and associated planning assumptions. Separate contact was made to collect the ANL-W and NRF LLW disposal volume forecast data.

1.1 Scope

This EDF addresses INEEL LLW volume planned for disposal through FY 2050. The forecast excludes liquid LLW and LLW to be disposed in the INEEL CERCLA Disposal Facility.

This EDF is an internal working document for the express use to compile disposal volumes provided by WGS facility representatives. Disposal volumes are summarized into tables, and the tables are then used by management to plan and support operations for disposal of LLW both onsite and offsite.

1.2 Document Organization

- Chapter 2.0 identifies the current CH-LLW lifecycle disposal volume forecast.
- Chapter 3.0 identifies the current RH-LLW lifecycle disposal volume forecast.
- Chapter 4.0 provides a list of all cited references.
- Appendix A is Waste Technical Facility Representative forecast work sheets.

2. CONTACT-HANDLED LOW-LEVEL WASTE

Low-level waste (LLW) is defined in the *Idaho National Engineering and Environmental Laboratory Waste Acceptance Criteria*¹ (IWAC) as a waste that is not high-level waste, spent nuclear fuel, transuranic waste, byproduct material as defined in section 11e(2) of the Atomic Energy Act of 1954, as amended, or naturally occurring radioactive material (DOE O 435.1). Contact-handled (CH) LLW, as defined at the INEEL, has a radiation limit of less than 500 mR/h at one meter.

The primary method of obtaining LLW disposal volume forecast data is to work with WGS facility representatives who collect forecast information from waste generators. NRF and ANL-W were contacted directly by forecast personnel to collect LLW disposal volume forecast data.

Appendix A provides individual WGS facility representatives forecast work sheets with associated planning assumptions. These data are summarized in Table 2-1.

Table 2-1 provides the current INEEL lifecycle summary disposal volume forecast. Historical actual disposal versus forecasted disposal totals for CH-LLW is shown in Figure 2-1.

Table 2-1. INEEL solid CH-LLW disposal volume forecast for FY 2004- 2050 (m³).

	ICP					ICP TOTAL	INL					INL TOTAL	Other			Total by year
	RWMC	TANO	INTEC	WROC/PBF	CFA		ANL	SMC	TRA	IRC	AMWTP		NRF	SNFDSF		
FY 04	3	723.6	1505.39	38.65	0	2270.64	350	360	560.04	0.24	1270	800	810	0.36	5151.28	
FY 05	1	164.88	1501.42	2.4	0	1670.78	350	360	301.4	0.24	1012	2870	750	1.13	6302.47	
FY 06	1	223.63	1495.42	2.4	0	1724.03	350	360	301.4	0.24	1012	2870	750	1.81	6355.90	
FY 07	1	352.22	1495.42	2.4	2.7	1856.02	650	360	301.4	0.24	1312	2870	750		6785.38	
FY 08	1	379.06	1502.12	2.4	0	1884.46	300	360	301.4	0.24	961.6	2870	900		6616.22	
FY 09	1	510.05	1509.62	2.4	0	2023.45	300	360	301.4	0.24	961.6	2541	900		6425.62	
FY 10		542.11	88	2.4	0	3173.5	300	360	301.4	0.24	961.6	2541	900		5035.15	
FY 11		554.33	67.8		0	3493.2	280	360	301.4	0.24	941.6	2541	900		5004.77	
FY 12		205.34	67.8		0	2746.3	280	360	301.4	0.24	941.6	2541	900		4655.78	
FY 13		40.66	0		0	40.66	280	360	560.1	0.24	1200		900		2141.00	
FY 14		35.02	0		0	92.16	280	360	301.4	0.24	941.6		900		1876.66	
FY 15			0		2.7	148.26	250	360	301.4	0.24	911.6		900		1814.34	
FY 16-20			57.14		0	0	1250		1507	1.2	2306		4500		7315.34	
FY 21-25			142.86		2.7	2.7	1250		1765.7	1.2	2565		4260		7422.46	
FY 26-30					2.7	2.7	1250		1507	1.2	2306		4260		7020.90	
FY 31-35					0	0	1000		1765.7	1.2	2315		4250		7016.90	
FY 36-40					2.7	2.7	1000		1765.7	1.2	2315		4240		7009.60	
FY 41-45					2.7	2.7	800		1507	1.2	1856		4200		6510.90	
FY 46-50					0	0	800		1765.7	1.2	2115		3950		6516.90	

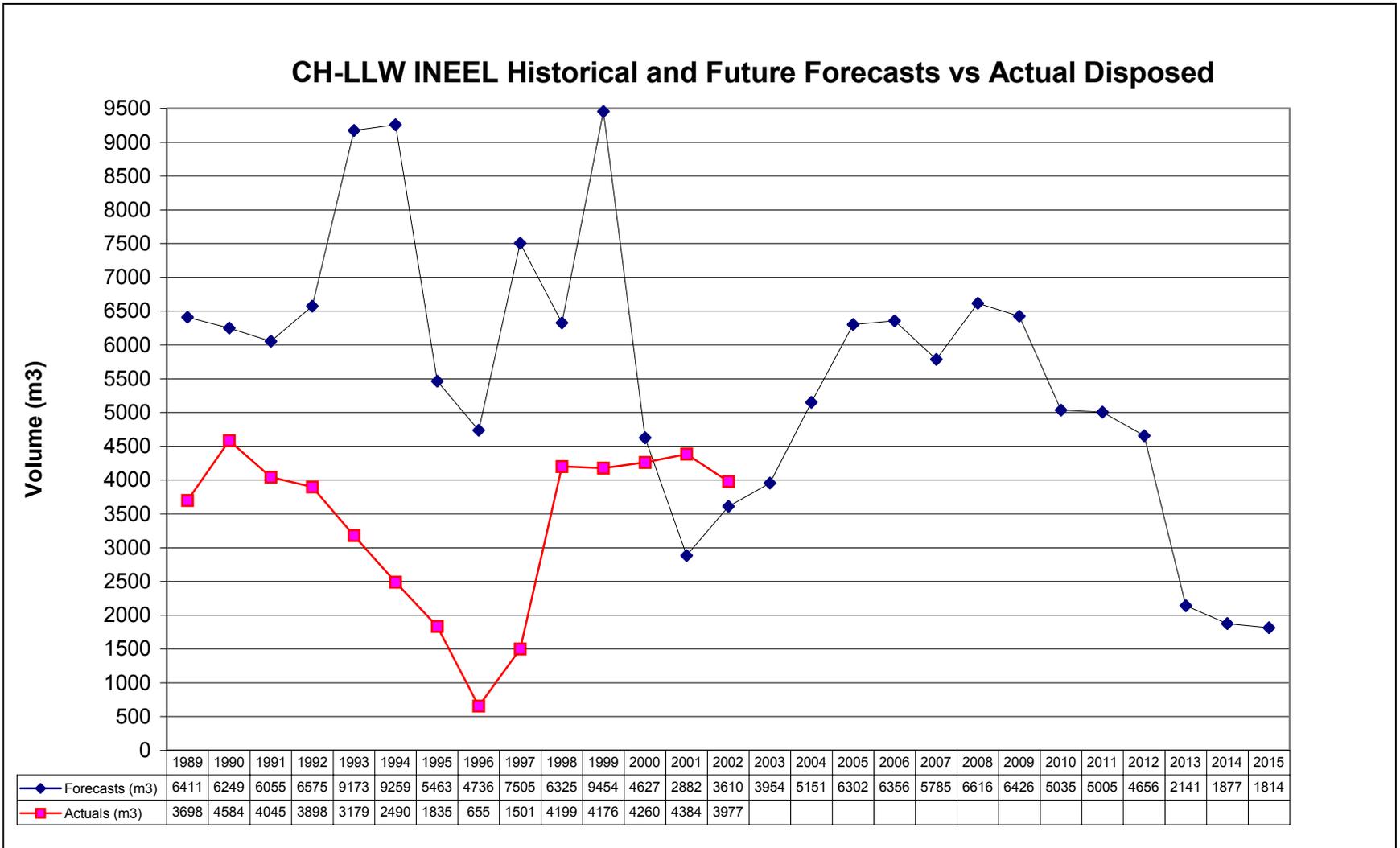


Figure 2-1. INEEL CH-LLW for disposal, forecast vs. actual.

3. REMOTE-HANDLED LOW-LEVEL WASTE

Remote-handled (RH)-LLW is defined by *the Idaho National Engineering and Environmental Laboratory Waste Acceptance Criteria*¹ as waste having a radiation limit of greater than or equal to 500 mR/h at one meter.

Appendix A provides individual WGS facility representatives forecast work sheets with associated planning assumptions. These data are summarized in Table 3-1. Table 3-2 identifies the current lifecycle disposal volume forecast for RH-LLW (INEEL bulk equivalent), Table 3-3 identifies the current lifecycle disposal volume forecast for RH-LLW (INEEL vault equivalent), and Table 3-4 identifies the current lifecycle disposal volume forecast for RH-LLW (not disposable at the RWMC). Historical actual disposed versus forecasted disposal totals for RH-LLW is shown in Figure 3-1. Figure 3-2 provides the disposal volume forecast of the three different RH-LLW categories.

Table 3-1. RH-LLW disposal volume forecast summary (m³).

Year(s)	Total by year
FY 04	130.71
FY 05	102.51
FY 06	104.57
FY 07	102.51
FY 08	102.51
FY 09	102.31
FY 10	102.25
FY 11	102.25
FY 12	102.25
FY 13	64.14
FY 14	104.21
FY 15	104.21
FY 16-20	337.85
FY 21-25	303.86
FY 26-30	337.85
FY 31-35	303.86
FY 36-40	299.74
FY 41-45	341.47
FY 46-50	213.52

Table 3-2. INEEL solid RH-LLW (INEEL Bulk equivalent) disposal volume forecast for FY 2004-2050 (m³).

	ICP			INL			Total by year
	INTEC	WROC/PBF	ICP TOTAL	ANL	TRA	INL TOTAL	
FY 04	0.0015	64.08	64.08	0.5	0	0.5	64.58
FY 05	0.001			0.5	36.05	36.55	36.55
FY 06	0.001		0	0.5	36.05	36.55	36.55
FY 07	0.001			0.5	36.05	36.55	36.55
FY 08				0.5	36.05	36.55	36.55
FY 09				0.3	36.05	36.35	36.35
FY 10				0.3	36.05	36.35	36.35
FY 11				0.3	36.05	36.35	36.35
FY 12				0.3	36.05	36.35	36.35
FY 13				0.3	0	0.3	0.3
FY 14				0.2	36.05	36.25	36.25
FY 15				0.2	36.05	36.25	36.25
FY 16-20				1	180.25	181.25	181.25
FY 21-25				1	144.2	145.2	145.2
FY 26-30				1	180.25	181.25	181.25
FY 31-35				1	144.2	145.2	145.2
FY 36-40				1	144.2	145.2	145.2
FY 41-45				0.5	180.25	180.75	180.75
FY 46-50				0.5	144.2	144.7	144.7

Table 3-3. INEEL solid RH-LLW (INEEL Vault equivalent) disposal volume forecast for FY 2004-2050 (m³).

	ICP	INL	Other	Total by year
	WROC/PBF	TRA	NRF	
FY 04	0.74	1.544	63.84	66.124
FY 05		2.036	63.9	65.936
FY 06		4.12	63.9	68.02
FY 07		2.06	63.9	65.96
FY 08		2.06	63.9	65.96
FY 09		2.06	63.9	65.96
FY 10		2.06	45.22	47.28
FY 11		2.06	42.56	44.62
FY 12		2.06	45.22	47.28
FY 13		0	45.22	45.22
FY 14		4.12	42.56	46.68
FY 15		4.12	45.22	49.34
FY 16-20		10.3	133	143.3
FY 21-25		12.36	133	145.36
FY 26-30		10.3	133	143.3
FY 31-35		12.36	133	145.36
FY 36-40		8.24	133	141.24
FY 41-45		14.42	133	147.42
FY 46-50		10.3	53.2	63.5

Table 3-4. INEEL solid RH-LLW (not disposable at the RWMC) disposal volume forecast for FY 2004-2050 (m³).

	ICP	INL	Other
	RWMC ²	TRA ¹	NRF
FY 04			
FY 05			
FY 06	2		
FY 07			
FY 08			
FY 09			
FY 10			18.62
FY 11			21.28
FY 12			18.62
FY 13			18.62
FY 14			21.28
FY 15			18.62
FY 16-20			13.3
FY 21-25			13.3
FY 26-30			13.3
FY 31-35			13.3
FY 36-40			13.3
FY 41-45			13.3
FY 46-50			5.32

¹ TRA projected volume is unknown at this time as is the potential disposal date. D&D RH-LLW potential with Material Test Reactor and Engineering Test Reactor cores (not canal basins).

² Dry Rod Consolidation at RWMC Intermediate Level Transuranic Storage Facility.

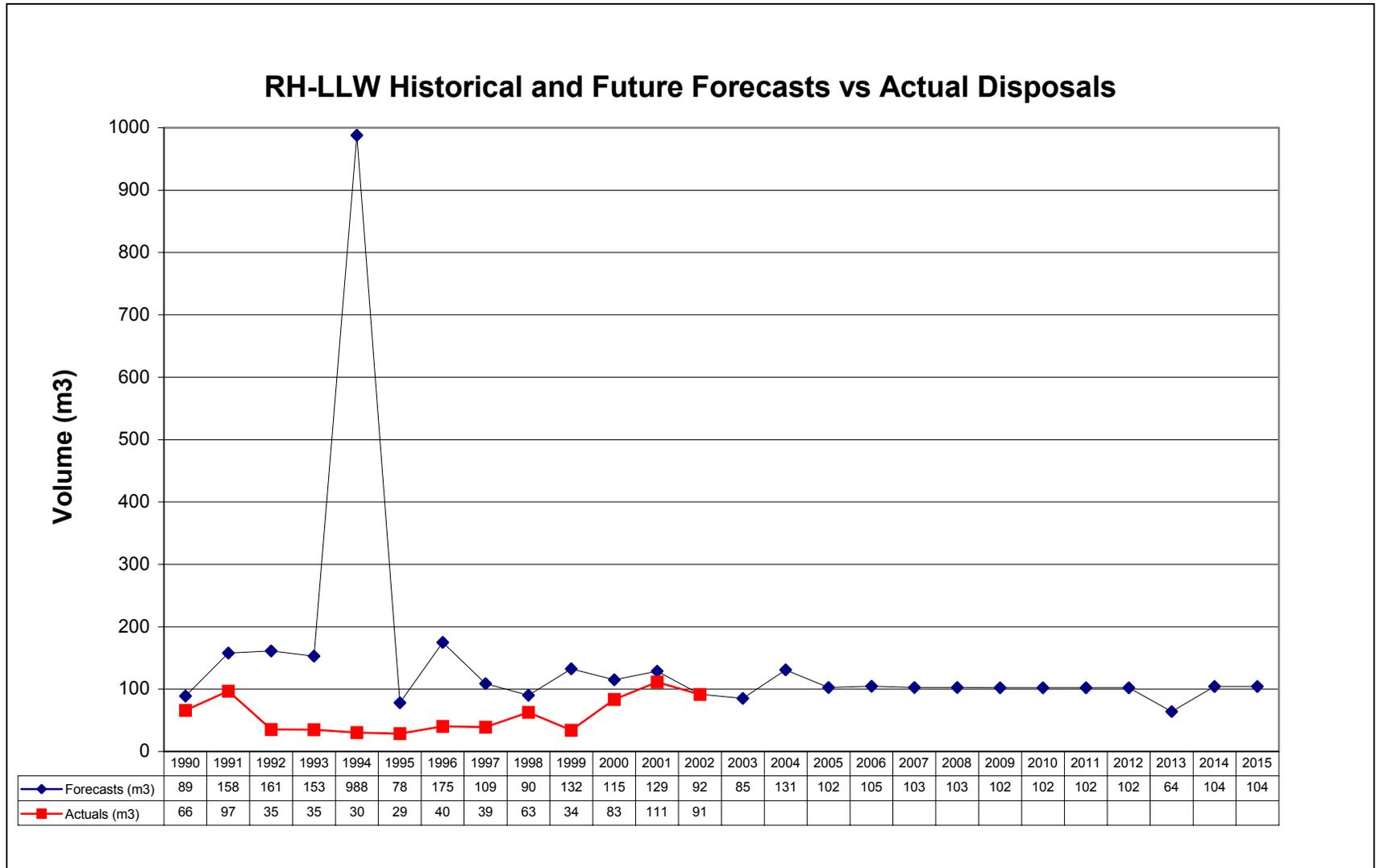


Figure 3-1. RH-LLW for disposal, forecast vs. actual.

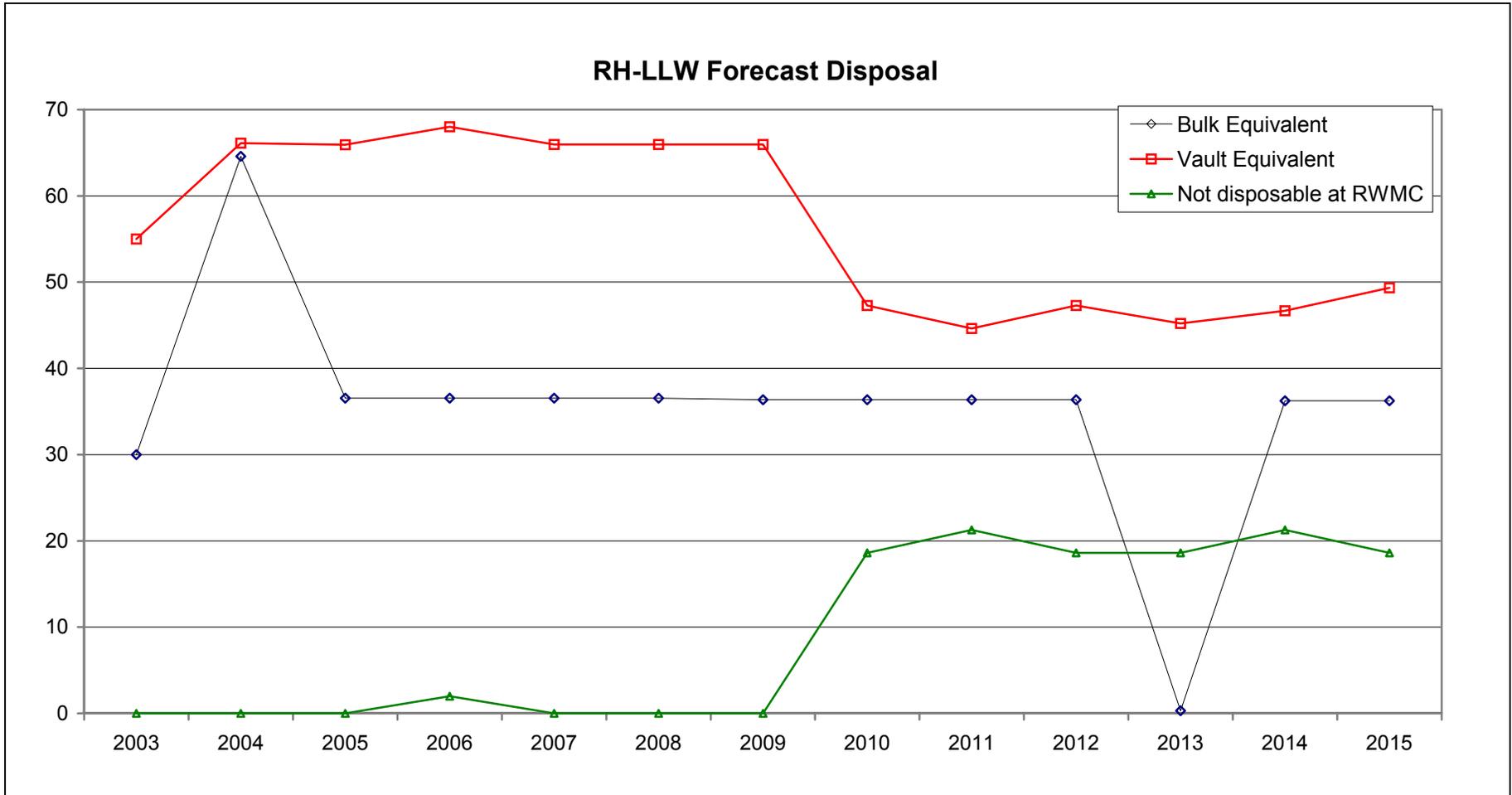


Figure 3-2. RH-LLW for disposal volume forecast.

4. REFERENCES

1. Idaho National Engineering and Environmental Laboratory Waste Acceptance Criteria, DOE/ID-01-10381, Rev. 18, May 2003.

APPENDIX A

Waste Generator Facility Representative Work Sheets

Key

CH	Contact-Handled LLW
RH	Remote-Handled LLW
RH Vault	RH-LLW equivalent to that disposed in the RWMC Vaults
RH Bulk	RH-LLW equivalent to that disposed in the RWMC Bulk Pit
RH other	RH-LLW not disposable at the RWMC

Note: All volumes are in cubic meters and are “as Packaged” unless otherwise indicated. All data collected from Facility representatives as of March 2003. The form in which the data are presented in this appendix is slightly modified from the original data submission forms for consistence purposes only – no data has been altered without the express agreement of the facility representative.

Balance of INEEL Cleanup

Surveillance, Monitoring & Long-Term Operation D/D/D, (CFA D&D)	Facility Contact/ Phone Doug Jorgensen 526-7022 Steven Wilkinson 526-4150	WGS Facility Rep Robert Lopez Robert Lopez
PBF/ WERF/ TRA Closure	Andy Baumer 526-3238	Robert Lopez

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
Surveillance, Monitoring & Long-Term Operation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
D/D/D, (CFA D&D)	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
PBF/ WERF/ TRA Closure	CH	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.4
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Totals	CH	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.4
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

Balance of INEEL Cleanup

Surveillance, Monitoring
& Long-Term Operation
D/D/D, (CFA D&D)
PBF/ WERF/ TRA Closure

Facility Contact/ Phone
Doug Jorgensen (6-7022)

Steven Wilkinson (6-4150)
Andy Baumer (6-3238)

WGS Facility Rep
Robert Lopez (6-8008)

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
Operation/ Maintenance	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Surveillance, Monitoring & Long-Term Operation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Combined WAGS 2, 4, 5, 6/10	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D/D/D, (CFA D&D)	CH	0	0	2.7	0	0	0	0	0	0	0	2.7	0	2.7	3	0	3	3	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VCO	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ICDF	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBF/ WERF/ TRA Closure	CH	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance Totals	CH	2.4	2.4	5.1	2.4	2.4	2.4	0	0	0	0	2.7	0	2.7	3	0	3	3	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Eliminate MLLW Backlog/ Services

Facility Contact Jason Chapple K. Kooda
Phone 526-1469 526-8505

ICP
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WGS Facility Rep Robert Lopez
Phone 526-8008

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
Legacy MLLW Disposition	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Totals	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
Legacy MLLW Disposition	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Legacy MLLW Totals	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Transfer SNF & Close Basins

Facility Contact/ Phone
A. Baumer 526-3238

WGS Facility Rep
Robert Lopez 526-8008

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Totals
PBF Fuel Transfer to Dry Storage	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Close PBF Basin	CH	0	0	0	0	0	0	36.25	0	0	0	0	0	36.25
	RH Vault	0.37	0.37	0	0	0	0	0	0	0	0	0	0	0.37
	RH Bulk	21.36	21.36	21.36	0	0	0	0	0	0	0	0	0	64.08
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Totals	CH	0	0	0	0	0	0	36.25	0	0	0	0	0	36.25
	RH Vault	0.37	0.37	0	0	0	0	0	0	0	0	0	0	0.37
	RH Bulk	21.36	21.36	21.36	0	0	0	0	0	0	0	0	0	64.08

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
PBF Fuel Transfer to Dry Storage	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Close PBF Basin	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNF/Basins Totals	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ANL

WGS Facility Rep/Phone

Greg Bass - DOE-CH
D. Kirschner - ANL-W 533-7700

NOTES AND COMMENTS

Low-level waste volume in m3.

Low-level waste is packaged in cargo containers (8'x8'x20') and wood boxes (4'x4'x4' and 4'x4'x8').

FY07 increase due to ZPPR material disposal.

Six shipments on a 40' flatbed trailer estimated per year.

INL

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FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
ANL-W	CH	70	0	0	0	0	70	35	0	70	0	35	70	350
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.1	0	0	0	0	0.1	0.1	0	0.1	0	0	0.1	0.5
Other - ANL	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Total	CH	70	0	0	0	0	70	35	0	70	0	35	70	350
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.1	0	0	0	0	0.1	0.1	0	0.1	0	0	0.1	0.5

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
ANL-W	CH	350	350	650	300	300	300	280	280	280	280	250	1250	1250	1250	1000	1000	800	800	800
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	1	1	1	1	0.5	0.5	0.5
Other - ANL	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANL Totals	CH	350	350	650	300	300	300	280	280	280	280	250	1250	1250	1250	1000	1000	800	800	800
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	1	1	1	1	0.5	0.5	0.5

TRA

NOTES AND COMMENTS

INL

WGS Facility Rep Rhonda Rohe
Phone 533-4245

The MTR BASIN D&D project will be generating approximately 156 cubic meters of RH-LLW in CY03, beginning in about July through September.

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(Assumed to be bulk disposed based on CKM conversation with MRL - 5/22/03)
MTR building = Landlord, Hot Cell, Misc. - other than ATR

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
ATR	CH	39.14	39.14	39.14	39.14	39.14	39.14	39.14	39.14	39.14	39.14	39.14	39.14	469.68
	RH Vault	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0	0	0	0	1.544
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
MTR building	CH	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	7.53	90.36
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Total	CH	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	46.67	560.04
	RH Vault	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0	0	0	0	1.544
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
ATR	CH	210.98	210.98	210.98	210.98	210.89	210.98	210.98	210.98	469.68	210.98	210.98	1054.90	1313.60	1054.90	1313.60	1313.60	1054.90	1313.60	0
	RH Vault	2.06	4.12	2.06	2.06	2.06	2.06	2.06	2.06	0	4.12	4.12	10.3	12.36	10.3	12.36	8.24	14.42	10.3	0
	RH Bulk	36.05	36.05	36.05	36.05	36.05	36.05	36.05	36.05	0	36.05	36.05	180.25	144.2	180.25	144.2	144.2	180.25	144.2	0
MTR building	CH	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	90.42	452.1	452.1	452.1	452.1	452.1	452.1	452.1	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRA Totals	CH	301.4	301.4	301.4	301.4	301.31	301.4	301.4	301.4	560.1	301.4	301.4	1507	1765.7	1507	1765.7	1765.7	1507	1765.7	0
	RH Vault	2.06	4.12	2.06	2.06	2.06	2.06	2.06	2.06	0	4.12	4.12	10.3	12.36	10.3	12.36	8.24	14.42	10.3	0
	RH Bulk	36.05	36.05	36.05	36.05	36.05	36.05	36.05	36.05	0	36.05	36.05	180.25	144.2	180.25	144.2	144.2	180.25	144.2	0

SMC

WGS Facility Rep Marshal Marlor 526-2581

INL

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FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
SMC	CH	30	30	30	30	30	30	30	30	30	30	30	30	360
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Totals	CH	30	30	30	30	30	30	30	30	30	30	30	30	360
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
SMC	CH	360	360	360	360	360	360	360	360	360	360	360	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SMC Totals	CH	360	360	360	360	360	360	360	360	360	360	360	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TANO

Facility Contact/ Phone
M. Duffy 526-3735

WGS Facility Rep
Marshal Marlor 526-2581

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
DD&D TAN 607 & Support Facilities	CH	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	723.6
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
DD&D WRRTF	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
DD&D LOFT	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
V-Tank Remediation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Soils Remediation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Landlord/ Utility Operator	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
VOC Tank Closure	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Close TAN 607 Basin	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly TOTALS	CH	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	723.6
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

TANO

Facility Contact/ Phone
M. Duffy 526-3735

WGS Facility Rep
Marshal Marlor 526-2581

ICP

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Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
DD&D TAN 607 & Support Facilities	CH	164.88	223.63	352.22	379.06	510.05	542.11	554.33	205.34	40.66	35.02	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DD&D WRRTF	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DD&D LOFT	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V-Tank Remediation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Soils Remediation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Landlord/ Utility Operator	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOC Tank Closure	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Close TAN 607 Basin	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANO Totals	CH	164.88	223.63	352.22	379.06	510.05	542.11	554.33	205.34	40.66	35.02	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RWMC

WGS Facility Rep	Jeff Messaros 526-4211
Generator Facility	Facility Contact/ Phone
	G. Goodson 526-4660
GEM (Pit 9)	Clay Antonson 526-5176
SDA/ Buried Waste	Bob Skinner 526-3516
RH-TRU to WIPP	Cindy Fife 526-3533
AMWTP	Richard NeSmith 557-7138
Landlord/ Utility Operator	Al Millhouse 526-6932
	Rick Horne 526-5318
Other	

NOTES AND COMMENTS

*All waste generated from Pit 9 is CERCLA waste, it may be disposed in the ICDF. This waste also may become MLLW or TRU based upon characterization. However, it was included in the estimate as a maximum generation estimate. It is also unknown what activities will occur at Pit 9 after the GEM project, and therefore is impossible to estimate waste volumes.

RH TRU removal is scheduled for end of FY04, but it will most likely be moved up.

BNFL is not contracted to operate past 2012 and the D&D will be estimated/contracted later.

Memo from R. NeSmith to MK Adler & CK Mullen (7/1/03) changing FY 04 from 2780 to 800 m³. Volumes assumed to be spread throughout the year making full box volumes.

ICP

FY 2004 Disposal Volumes

GENERATOR	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Total
GEM (Pit 9)*	CH	75	50	1	1	1	1	45	45	45	45	45	45	399
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
SDA/ Buried Waste	CH	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
RH-TRU to WIPP	CH	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
AMWTP	CH	65	67.5	65	67.5	65	67.5	65	67.5	67.5	67.5	67.5	67.5	800
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Landlord/Utility Operator	CH	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.6
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	803
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Totals	CH	140.25	117.75	66.25	68.75	66.25	68.75	110.25	112.75	112.75	112.75	112.75	112.75	1202
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0

RWMC

WGS Facility Rep	Jeff Messaros 526-4211
Generator Facility	Facility Contact/ Phone
	G. Goodson 526-4660
GEM (Pit 9)	Clay Antonson 526-5176
SDA/ Buried Waste	Bob Skinner 526-3516
RH-TRU to WIPP	Cindy Fife 526-3533
AMWTP	Richard NeSmith 557-7138
Landlord/ Utility Operator	Al Millhouse 526-6932
	Rick Home 526-5318
Other	

NOTES AND COMMENTS

RH TRU removal is scheduled for end of FY04, but it will most likely be moved up.
BNFL is not contracted to operate past 2012 and the D&D will be estimated/contracted later.

ICP

Out-year Disposal Volumes

GENERATOR	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
GEM (Pit 9)	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SDA/ Buried Waste	CH	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RH-TRU to WIPP	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Transition to AMWTP	CH	2870	2870	2870	2870	2541	2541	2541	2541	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Landlord/Utility Operator	CH	0.5	0.5	0.5	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RWMC Totals	CH	2871	2871	2871	2871	2542	2541	2541	2541	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NRF LLW FOR DISPOSAL

Naval Reactor Facility Contact/ Phone	
Monte Wise	533-5331
Jeff Fraiser	533-5237

WGS Point of contact	
Carlan Mullen	526-6040
Kay Adler	526-0525

OTHER
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CH-LLW NOTES AND COMMENTS

ASSUMPTIONS for CH-LLW:

All volumes are as-shipped volumes based on m³ of the waste container.
CH-LLW is disposed the same year as generated and are on a fiscal year basis (October through September)

ASSUMPTION for Hanford Category 1:

Defueled Prototype Plants (D&D&D) cited in the October 16, 2002 letter (4400 m³)

ASSUMPTION for Hanford Category 3:

Defueled Prototype Plants (D&D&D) cited in the October 16, 2002 letter (210 m³). This waste is assumed to not need cask handling capabilities.

FY 2004 WASTE DISPOSAL VOLUMES (m ³)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 totals
CH-LLW for INEEL Disposal	68	67	68	67	68	67	68	67	68	67	68	67	810

Outyear Forecast WASTE DISPOSAL VOLUMES (m ³)	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
CH-LLW (routine Bettis-ID)	750	750	750	750	750	750	750	750	750	750	750	3750	3750	3750	3750	3750	3750	3750	0
Hanford Category 1 (Prototype Plants)	0	0	0	150	150	150	150	150	150	150	150	750	450	450	450	450	450	200	0
Hanford Category 3 (Prototype Plants)	0	0	0	0	0	0	0	0	0	0	0	0	60	60	50	40	0	0	0
Totals	750	750	750	900	4500	4260	4260	4250	4240	4200	3950	0							

NRF LLW FOR DISPOSAL

Naval Reactor Facility Contact/ Phone	
Monte Wise	533-5331
Jeff Fraiser	533-5237

WGS Point of contact	
Carlan Mullen	526-6040
Kay Adler	526-0525

RH-LLW NOTES AND COMMENTS

ASSUMPTION for ALL RH-LLW and Hanford Greater Than Category 3 RH-LLW:

The base assumption is that the offsite shipping cask capability will be available to support annual disposal (generated and backlog).

As-shipped volumes are based on the 55ton cask and liner inserts (2.66 m³).

ASSUMPTIONS for Hanford Category 3 RH-LLW:

Annual metal volumes cited in the October 16, 2002 letter (2.61 m³) are assumed to be shipped in ten 55 ton equivalent inserts (2.66 m³). This is based on a liner weight of 1685# and a liner with waste of 5936# so waste weight is 4251#. With an assumed waste metal density of 495#/ft³ (17478#/m³), then the metal volume per liner would be approximately 0.26 m³.

The stored waste cited in the October 16, 2002 letter (10.8 m³) will be disposed starting in FY 2010 and will be disposed over 6 years.

ASSUMPTIONS for Hanford Greater Than Category 3 (GTC3) RH-LLW:

Hanford Greater than Category 3 (GTC3) - 0.295 m³/year - is assumed to exceed INEEL radiological characteristics restrictions for RWMC disposal.

Annual metal volumes cited in the October 16, 2002 letter (0.295 m³) are assumed to be shipped in one 55ton equivalent insert (2.66 m³). This is based on a liner weight of 1685# and a liner with waste of 5936# so waste weight is 4251#. With an assumed waste metal density of 495#/ft³ (17478#/m³), then the metal volume per liner would be approximately 0.26 m³.

The stored (metal volume) waste cited in the October 16, 2002 letter (7.53 m³) will not be disposed at the INEEL and the waste stream will continue to be generated at the rate of 0.295 m³/year (metal volume based on the October 16, 2002 letter). Therefore, in the interim 8 years, additional accumulation of 2.36 m³ of metal volume will be stored for a total in storage of 9.89 m³ (metal volume) at the beginning of FY 2010. Starting in FY 2010 the waste stream will be disposed over the next 6 years.

NOTE: For cask shipments offsite, the assumption used is for two 3-m³ casks to be shipped together as one shipment.

FY 2004 WASTE DISPOSAL VOLUMES (m3)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 totals
RH-LLW for INEEL Vault Disposal	5.32	5.32	5.3	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	5.32	63.84
RH-LLW for INEEL Bulk Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0

Outyear forecast WASTE DISPOSAL VOLUMES (m ³)	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY46-50	>FY50
RH-LLW for INEEL Vault Disposal	63.9	63.9	64	63.9	63.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RH-LLW for INEEL Bulk Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RH for Hanford Category 3 Disposal	0	0	0	0	0	26.6	26.6	26.6	26.6	26.6	26.6	133	133	133	133	133	133	53.2	0
RH GTC3 for Hanford disposal	0	0	0	0	0	2.66	2.66	2.66	2.66	2.66	2.66	13.3	13.3	13.3	13.3	13.3	13.3	5.32	0
Stored RH	0	0	0	0	0	18.62	15.96	18.62	18.62	15.96	18.62	0	0	0	0	0	0	0	0
Stored RH GTC3	0	0	0	0	0	15.96	18.62	15.96	15.96	18.62	15.96	0	0	0	0	0	0	0	0
Annual / 5 YEAR Totals	63.9	63.9	64	63.9	63.9	63.84	63.84	63.84	63.84	63.84	63.84	146.3	146.3	146.3	146.3	146.3	146.3	58.52	0

INTEC

GENERATOR	Facility Contact	WGS Facility Rep
ICP	M. Blake 526-1022	Jason Orme 526-6611
Clean/ Close INTEC	J. Valentine 526-3267	Jason Orme 526-6611
Facility Authority/ Oper Mng	Riley Chase 526-0018	Jason Orme 526-6611
SNF, NMED & Calcine Disposition	Joe Pruitt 526-3899	Jason Orme 526-6611
Integrated Tank Farm Closure	Diane Croson 526-3402	Jason Orme 526-6611
Excess Facilities Disposition & D/D	Doug Kuhns 526-8226	Jason Orme 526-6611

ICP

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GENERATOR	Facility	WGS Rep
SNF Consolidation	(TBD)	Jason Orme 526-6611
SNM Consolidation	Doug Burns 526-4324	Jason Orme 526-6611
SBW to WIPP	Gary Milnarich 526-1121	Jason Orme 526-6611
Close CPP-603 Basin		Jason Orme 526-6611
Other		

FY 2004 Disposal Volumes		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total FY04
GENERATOR	WASTE													
Facility Authority/ Oper Mng	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
SNF Consolidation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
SNM Consolidation	CH	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.48
	Assumptions	For SNM consolidation, in FY04 assume approximately 0.5 cubic meters of contact handled LLW from November through September. SNM consolidation is not anticipating generating any remote-handled vault LLW or remote-handled bulk LLW.												
SNF, NMED & Calcine Disposition	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
SBW to WIPP	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0.0005	0	0	0	0.0005	0	0	0	0.0005	0.0015
	Assumptions	1. For SBW, assume maximum of 3 1/2 liter column tests during FY04, each producing 1/2 liter of RH waste.(verified liter measure vs m3 on 7-23-03 mkaf with bjw) 2. Assumes that sorbent is not contaminated with RCRA metals. 3. Assumes all other waste generated in testing is MLLW or TRU.												

INTEC

ICP

FY 2004 Disposal Volumes		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total FY04
GENERATOR	WASTE													
Integrated Tank Farm Closure	CH	2.5	2.5	2.5	0.1	0.15	0.5	2.5	2.5	1	1	0.75	0.5	16.5
	Assumptions	<p>Radioactive Waste Generation - Approximately 12 cubic meters of radioactively contaminated waste may be generated by project activities scope identified in section B regarding the wash activity in VES-WM-184/185/186. This waste may be removed from the contaminated area(s). Efforts would be made to segregate hazardous waste streams to avoid generating mixed waste. Reusable/laundryable PPE would be used where applicable.</p>												
D&D	CH	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	12.24
	Assumptions	<p>The PEP for the ICP requires that we D&D 11 Buildings at INTEC by 2012. The 11 buildings have an estimated volume 10 m3 of LLW. These number are only ROM estimates, actual volumes could vary greatly.</p> <p>1. Assumed bulk of material is released/managed as non-Rad. The LLW part would be probably soil/rubble. 2. Assumed 10 m³/building * 11 buildings = 110 m³ through 2012 or 12.2 m³/year. 12.2 m³ / 12 months = 1.02/month for 2004.</p>												
D&D 601/627/640	CH	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	4.63	55.56
	Assumptions	<p>The PEP also requires that the 601/627/640 facilities be deactivated by 2012. The waste generation estimate for this effort ranges from 50 cu. meters to 500 depending on what approach used to D&D these buildings. These numbers are only ROM estimates, actual volumes could vary greatly.</p> <p>1: Assumed bulk of material is released/managed as non-Rad. The LLW part would be probably soil/rubble.</p> <p>2: Due to the large variance (50 to 500 m3), the worst case of 500 m3 will be used and then divided by nine years (2004 to 2012) to get a yearly value of 55.6 m3. For 2004, divide by 12 months to get 4.63 m3.</p>												
Other	CH	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0
CPP-749 (SNF facility)	CH	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.36
	Assumptions	<p>Assume 4 personnel anti-cs would be about 2ft3 (.06 m³)each time, 0.34 divided by 12 equals approximately .03 ft³ monthly</p>												
PBI	CH	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	1.044
	Assumptions	<p>Cell 5 of CPP-640 will not need a major decon, but might have a few small items that need to be disposed For the Performance Based Incentive associated with downgrading the hazard category for 601/627/640</p> <p>PPE is not included in these estimates. Assumed with shielding. No rad waste will be generated for activities in 601, except normal PPE Cell 5 of CPP-640 will not need a major decon, but might have a few small items that need to be disposed All the disposal activities will take place in late FY 03 or early FY 04. Will re-evaluate in FY04.</p>												

INTEC

ICP

FY 2004 Disposal Volumes		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total FY04
GENERATOR	WASTE													
VCO	CH	0.052	0	0	0.052	0	0	0.052	0	0	0.052	0	0	0.208
	Waste generated in support of sampling and closure activities													
	Assumptions													
	VCO Program does not generate much LLW since the regulatory driver for follow-on and closure activities conducted after completing the characterization EDF for VCO units is RCRA. In other words, if a VCO unit has never stored RCRA waste, there are not any compliance issues so the VCO Program is essentially "finished" with that particular unit. For this reason, the only LLW generated by the VCO Program is waste generated during sampling retrieval activities (i.e., sample tools and PPE) and from closure activities (i.e., primarily PPE). The annual LLW forecast for the VCO Program (as specified in the attached file) is limited to 0.208 cubic meters (55-gallons).													
FY 2004 Disposal Volumes		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total FY04
GENERATOR	WASTE													
GENERAL: SNF	CH	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	208.8
GENERAL: INF	CH	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	74.16	889.92
GENERAL: HLW	CH	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	26.72	320.64
	Assumptions													
	Incomplete responses from proposed generators													
	Compared to "Facility Forecast and Actual Disposal for FY-2002													
	Extrapolated/trended based upon the first five months of FY-2003													
	Added 20%													
TOTALS FY04	CH	126.6	126.6	126.6	124.24	124.2	124.6	126.6	126.59	125.1	125.1	124.8	124.587	1505.8
TOTALS FY04	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS FY04	RH Bulk	0	0	0	0.0005	0	0	0	0.0005	0	0	0	0.0005	0.0015

INTEC

Out-year Disposal Volumes		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
GENERATOR	WASTE																			
Facility Authority/ Oper Mng	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNF Consolidation	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SNM Consolidation	CH	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Assumptions	For FY05 through FY09, assume 2 cubic meters of contact handled LLW for each year. SNM consolidation is not anticipating generating any remote-handled vault LLW or remote-handled bulk LLW.																		
SNF, NMED & Calcine Disposition	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBW to WIPP	CH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.001	0.001	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Assumptions	<ol style="list-style-type: none"> For SBW, assumes maximum of 2 1/2 liter column tests during per year each producing 1/2 liter of RH waste (verified liter measure vs m3 on 7-23-03 mkaf with bjw) Assumes that sorbent is not contaminated with RCRA metals. Assumes all other waste generated in testing is MLLW or TRU (including waste generated or treated in the operational facility). 																			
Integrated Tank Farm Closure	CH	12	6	6	6	13.5	13.5	0	0	0	0	0	0	0	0	0	0	0	0	0
	Assumptions	Radioactive Waste Generation - Approximately 12 cubic meters of radioactively contaminated waste may be generated by project activities scope identified in section B regarding the wash activity in VES-WM-184/185/186. This waste may be removed from the contaminated area(s). Efforts would be made to segregate hazardous waste streams to avoid generating mixed waste. Reusable/laundryable PPE would be used where applicable For FY8 and 9 it will range from 12 to 15 so it was averaged to 13.5 m3.																		
Out year Disposal Volumes		FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
GENERATOR	WASTE																			
D&D	CH	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	0	0	0	0	0	0	0	0	0	0	0
Assumptions	The PEP for the ICP requires that we D&D 11 Buildings at INTEC by 2012. The 11 buildings have an estimated volume of LLW of approximately 10 cubic meters. These numbers are only ROM estimates, actual volumes could vary greatly.																			
		<ol style="list-style-type: none"> Assumed bulk of material is released/managed as non-Rad. The LLW part would be probably soil/rubble. Assumed 10 m3/building * 11 buildings = 110 m3 through 2012 or 12.2 m3/year. 12.2 m3 / 12 months = 1.02/month for 2004. 																		

INTEC

ICP 5 of 5

D&D 601/627/640	CH	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	0	0	0	0	0	0	0	0	0	0	0
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The PEP also requires that the 601/627/640 facilities be deactivated by 2012. The waste genera The waste generation estimate for this effort ranges from 50 cu. meters to 500 depending on what approach used to D&D these buildings. These numbers are only ROM estimates, actual volumes could vary greatly.

- Assumptions
- 1: Assumed bulk of material is released/managed as non-Rad. The LLW part would be probably soil/rubble.
 - 2: Due to the large variance (50 to 500 ft3), the worst case of 500 m3 will be used and then divided by nine years (2004 to 2012) to get a yearly value of 55.6 m3. For 2004, divide by 12 months to get 4.63 m3.

Close CPP-603 Basin	CH	0	0	0	6.7	6.7	6.7	0	0	0	0	0	0	0	57.14	142.86	0	0	0	0	0
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The total estimated LLW from the D&D of the CPP-603 facility is 220 m3. Start of this deactivation project is scheduled for FY-08 to FY-10 and will generate 20 m3 of LLW. D&D of this facility is scheduled for FY-24 to FY-30 and will generate 200 m3. The 20 m3 will be divided by 3 years for FY-08 to FY-10. The 200 m3 for FY-24 to FY-30 is divided by 7 years.

CPP-749 (SNF facility)	CH	1.13	1.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Assumptions
Assuming 4 personnel anti-cs would be about 2ft3 (.06 m3)each time

PBI For the PBI associated with downgrading the hazard category for 601/627/640

Assumptions
Completion w/l FY04

VCO waste generated in support of sampling and closure activities	CH	0.208	0.208	0.208	0.208	0.208	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Assumptions
VCO Program does not generate much LLW since the regulatory driver for follow-on and closure activities conducted after completing the characterization EDF for VCO units is RCRA. In other words, if a VCO unit has never stored RCRA waste, there are not any compliance issues so the VCO Program is essentially "finished" with that particular unit. For this reason, the only LLW generated by the VCO Program is waste generated during sampling retrieval activities (i.e., sample tools and PPE) and from closure activities (i.e., primarily PPE). The annual LLW forecast for the VCO Program (as specified in the attached file) is limited to 0.208 cubic meters (55-gallons).

GENERAL: INF	CH	889.9	889.9	889.9	889.92	889.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENERAL: SNF	CH	208.8	208.8	208.8	208.8	208.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENERAL: HLW	CH	320.7	320.7	320.7	320.69	320.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Assumptions:
Incomplete responses from proposed generators
Compared to "Facility Forecast and Actual Disposal for FY-2002
Extrapolated/trended based upon the first five months of FY-2003
Added 20%

Out-year Disposal Volumes	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
GENERATOR	CH	1503	1497	1495	1502.1	1510	88	67.8	67.8	0	0	0	57.14	142.86	0	0	0	0	0	0
	RH Vault	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RH Bulk	0.001	0.001	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

INEEL R&D

WGS Facility Rep: Leslie Soderquist

526-0437

NOTES AND COMMENTS

Because the organizations listed below are located throughout the INEEL, it is beyond this Facility Representative's scope to contact each organization listed here. Low level waste generation will be forecasted for the Town facilities only. (INEEL R&D program development has not progressed to the point where LLW forecasts can be obtained. The data presented is based on past trends.)

GENERATOR	Facility Contact/ Phone	GENERATOR	Facility Contact/ Phone
<ul style="list-style-type: none"> ● Energy & Environmental Sciences <ul style="list-style-type: none"> - Bio & Geological Sciences - Physical Sciences - Other ● Energy & Energy Technology <ul style="list-style-type: none"> - Sustainable/Intelligent Systems - Environmental Tech/ Engineering - Relationship Management - Energy Efficiency & Technology - Other ● Nuclear Energy Systems <ul style="list-style-type: none"> - Other 	David L Miller Phillip M Wright David L Miller Harold Blackman Walter Newcomb Michael Connolly Greg Frandsen Harold Blackman James Lake	<ul style="list-style-type: none"> ● National Security <ul style="list-style-type: none"> - Infrastructure & Defense Sys - Intelligence, Sensor & Info Sy - Other ● Town <ul style="list-style-type: none"> - Other ● Project/ NE Transition <ul style="list-style-type: none"> - Other 	Laurin Dodd Robert Summers Larry Freeman

It is estimated that any of the above organizations may perform research at Idaho Falls facilities which will generate low level waste. It is estimated that twelve 55-gallon drums of solid waste under Material Profile 2738Q will be generated annually over the next 5 years.

On an annual basis for the next twelve years, it is estimated that twelve drums will be disposed on three shipments consisting of four drums each approximately every four months.

FY 2004 Disposal Volumes

Town GENERATORS	WASTE	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	FY 04 Totals
		CH	0	0	0	0	0	0	0	0	0	0	0	0.24
RH Vault		0	0	0	0	0	0	0	0	0	0	0	0	0
RH Bulk		0	0	0	0	0	0	0	0	0	0	0	0	0

Out-year Disposal Volumes

Town GENERATORS	WASTE	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16-20	FY21-25	FY26-30	FY31-35	FY36-40	FY41-45	FY45-50	>FY50
		CH	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	1.2	1.2	1.2	1.2	1.2	1.2
RH Vault		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RH Bulk		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0