

# **Solid Waste Program Fiscal Year 1997 Multi-Year Work Plan WBS 1.2.1**

J. G. Riddelle

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Assistant Secretary for Environmental Management



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Hanford Company**

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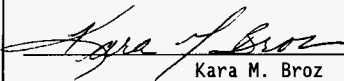
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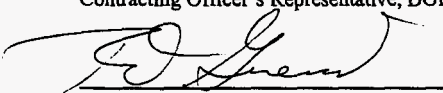
  
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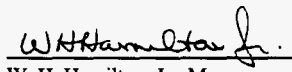
MYWP Approval Sheet  
Solid Waste Program 1.2.1

  
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This MYWP is approved with reference to letter 96-WPD-019, Waste Programs  
Fiscal Year 1997 Multi-Year Work Plan (MYWP) signed on September 26, 1996, by  
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## 1.0 TECHNICAL BASELINE

The technical baseline describes the work (functions) to be accomplished and the technical standards that govern the work. The following information is provided in this section of the MYWP: Program Mission; Program End Point Targets; Summary-Level Forecasting Data (waste type, nuclear material, facility, infrastructure needs); Drivers (key mission and regulatory); Functional Definitions; Program Life Cycle Requirements; and Program Issues and Assumptions.

### 1.1 PROGRAM MISSION

The Hanford Mission Plan, Volume 1, Site Guidance identifies the need for the Solid Waste Program to "treat, store, and dispose of a wide variety of solid material types consisting of multiple radioactive and hazardous waste classes". This includes "future Hanford Site activities which will generate new wastes that must be handled as cleanup activities are completed." Solid wastes are typically categorized as transuranic (TRU) waste, low-level waste (LLW), low-level mixed waste (LLMW), and non-radioactive hazardous waste.

To meet the mission plan need, the Solid Waste Program has defined its mission as the following - **receive, store, treat, decontaminate, and dispose of solid radioactive and nonradioactive dangerous wastes in a safe, cost effective and environmentally compliant manner.**

As part of the Hanford Site's current mission to clean up the site, the Solid Waste Program is responsible for:

- waste located in burial grounds identified in the Low Level Burial Grounds Dangerous Waste Permit Application (burial grounds 218-E-10, 218-E-12B, 218-W-3A, 218-W-3AE, 218-W-4B, 218-W-4C, 218-W-5, 218-W-6 [future site]), including final closure.
- stored solid waste mainly in buildings which are part of the Central Waste Complex, and the Transuranic Storage and Assay Facility (TRUSAF), and the Nonradioactive Dangerous Waste Storage Facility (currently in standby mode).
- managing receipts of newly generated solid waste from onsite programs and offsite generators.
- providing treatment, storage, disposal of solid waste at both onsite and offsite locations.
- storage of Shippingport Pressurized Water Reactor Core II Fuel in the T Plant canyon, and Training Reactor, Isotopes, General Atomics (TRIGA) Fuel in the active burial grounds in the 200 Areas.



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- treatment of LLMW will be principally managed through the commercial thermal treatment contract and the commercial stabilization by macroencapsulation contract.
- WRAP 1, T Plant, and a new TPA M-33/M-91 Facility will treat the TRU waste to within acceptable standards.
- providing decontamination services for high dose waste, low dose waste, and contaminated equipment.
- managing low dose rate waste equipment for repair and return to service.

The technical functions and requirements for the Solid Waste Program are delineated in the Solid Waste Program Technical Baseline Description (WHC-SD-WM-RPT-060, current revision).

The Solid Waste Program Technical Baseline Description employs a system engineering approach to establish the program's technical baseline. The purpose of this document is to view the program as a single system and document the external and internal interfaces necessary to successfully manage a program of this magnitude. By defining the program's baseline, the effects of uncertainties and changes (internally and externally driven) to key elements of the program can be understood. Impacts of these changes to the mission and the functions of the program can be assessed and controlled.

The Solid Waste Program's mission does not include management of solid waste buried in inactive burial grounds that will be remediated by the Environmental Restoration Mission Area nor does it include CERCLA waste generated on site by the Environmental Restoration contractor. However, there will be some waste generated by the ER contractor that is within the scope of the mission (i.e., it will be shipped to the Solid Waste Program as newly generated waste).

The following paragraphs describe the type of waste, decontamination services, and the storage of Reactor Irradiated Nuclear Material (RINM).

Transuranic (TRU) Waste

Management of all retrieved, stored, and newly generated TRU (and TRU mixed) waste shall be the responsibility of the Solid Waste Program. The program is responsible for retrieving waste placed in retrievable storage since 1970 (located in 218-W-3A, -4B, -4C, and 218-E-12B Burial Grounds). The program is also responsible for providing onsite TRU waste storage until an offsite disposal system is ready to accept Hanford Site material. The program is to provide for treatment and certification of TRU waste to meet waste acceptance criteria for disposal. The program is also responsible for arranging for transportation of the TRU waste prepared for

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offsite disposal at the Waste Isolation Pilot Plant (WIPP). Treatment, certification, and preparation for transport to WIPP of TRU waste will be performed at WRAP, T Plant, and a new TPA M-33/M-91 facility.

Low-Level Mixed Waste

The Solid Waste Program is responsible for the receipt, treatment, interim storage, and disposal of low-level mixed waste assigned to the Hanford Site for disposition. The Hallam sodium will continue to be maintained by the program during FY1997. The program provides systems (include tracking databases, waste configuration and permit maintenance) to assure that waste is regulatorily acceptable. Where offsite treatment is required to allow disposal of the waste, program responsibility includes onsite storage and arranging for transport to the offsite treatment location. Final disposition will occur in a RCRA permitted onsite disposal system. Program responsibility includes closure and post closure maintenance of the disposal system.

Low-Level Waste

The Solid Waste Program is responsible for the receipt and disposal of multiple categories of low-level waste assigned to the Hanford Site for disposition. Final disposition will occur in an onsite disposal system. Program responsibility includes closure of the disposal system. It is not the intent of the program to "store" LLW except in special cases.

Hazardous Waste

The Solid Waste Program provides for disposition of hazardous wastes generated by onsite programs. The program is responsible for arranging for transportation of hazardous waste to an offsite treatment, storage or disposal site. Currently the 616 building is in standby condition, and is available for interim storage of hazardous waste should it be needed.

Decontamination Services

The Solid Waste Program provides decontamination services of high dose rate waste and contaminated equipment to meet applicable standards for disposal, storage, re-use, or free release. The Solid Waste Program also performs decontamination, waste verification/characterization, and repackaging of incoming wastes for reduction in radiation fields and recategorization of wastes from mixed to non-mixed and/or Greater Than Category 3 low-level to Category 1 or 3 low-level or, if possible, to levels making the waste a releasable (nonradioactive) material. Low dose rate waste contaminated equipment is also managed for repair and return to service.

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Storage of Reactor Irradiated Nuclear Material (RINM)

The Solid Waste Program through the T Plant canyon provides storage for RINM, namely the Shippingport Pressurized Water Reactor Core II (DOE 1995). In addition a small amount of Training Reactor, Isotopes, General Atomics (TRIGA) fuel in the active burial grounds in the 200 Areas has been classified as RINM and is to be managed as such (DOE 1995). The disposition of this RINM was addressed in the DOE programmatic SNF Fuel Management and INEL ER and WM programs FEIS. The Solid Waste Program may provide functions required to implement the record of decision of this EIS. In the interim, the Solid Waste Program will continue its existing storage management of the RINM and may complete interim actions to continue safe management. As yet, no definitive date has been set for removal of the TRIGA fuel from its current storage in the burial grounds.

Canister Storage Building

The canister storage building will be maintained by the Solid Waste Program at the conclusion of the SNF Project, currently scheduled for FY2001.

Closure of LLW Burial Grounds

The LLW Burial Grounds will be closed in accordance with the applicable RCRA guidelines and Performance Assessment (PA).

Programmatic Assumptions

- The WRAP TRU schedule reflecting TRU line startup on 10/1/97 and WIPP shipment on 1/1/98 is not fully funded. Work will begin in FY1997 anticipating supplemental funding in FY1997. TRU line work will cease approximately February 28, 1997 should supplemental funding not become available.
- DOE has stated that the FY1999 ADSs may be requested by waste type. This is a significant and currently undefined effort and not included in FY 1997 planning. This may however be included in future outyear planning.
- Contact-handled LLMW stabilization treatment will consist of direct disposal, onsite treatment, and commercial treatment. Transfer of waste to the vendor awarded the CH-LLMW stabilization treatment contract will meet Tri-Party Agreement milestone M-19 on September 30, 1999.
- Trench 34 of burial ground 218-W-5 will be operated in a standby mode but will not be operated or receive waste for disposal in FY1997. Trench 31 will receive waste in a storage mode during

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FY1997, and will transfer to disposal in FY2000.

- A deep trench (approximately 72 ft deep) is planned to be constructed in FY1997 to receive forecasted waste starting in FY1998. This deeper than normal trench provides a higher disposal volume for the same RCRA cover cost.
- Processing required for oversized TRU and LLMW and RH-TRU and RH LLMW will be determined under Tri-Party Agreement Milestone M-91, as defined by the Project Management Plans due in 1999 and 2000. Funding for implementation of the PMP's, therefore, has very little basis.
- The DOE walk-in work account (1A1) is contract-approved work through the MYWP and Work Authorization signatures. Workscope will be detailed throughout the year by DOE-RL.
- Environmental Restoration Program will lead the DNFSB-94-2 composite analysis. SWP effort provides inventory estimates and source term inputs to modeling of parametric data and reviews of data outputs and draft reports. Also, the composite analysis will have no impact on LLW burial ground operations during FY1997 and outyears.
- Part B permit applications for Solid Waste facilities have been submitted to Ecology. Current new facility construction will be accomplished under interim status (Hanford Federal Facility Agreement and Consent Order, 89-10 Rev. 1). It is assumed that final status and approval of all required permits will be obtained to support facility operation. The low level burial grounds closure schedule will be renegotiated prior to approval of the Part B permit.
- The T Plant head end contains miscellaneous LLW, excess chemicals, and abandoned process equipment. This waste poses an industrial and radiological hazard to T Plant personnel during administrative controlled entries for surveillance of the area. Solid Waste Program assumes that the Nuclear Energy program (NE-60) retains responsibility for those chemicals and dispositions them properly.

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**1.2 PROGRAM END POINT TARGETS**

This section identifies the significant end point targets, technical objectives and safety objectives to be achieved in accomplishing the program mission. This includes general and specific objectives, deliverables, or activities that are essential to the program mission. This information provides an overview of the activities and deliverables that are contained in the schedule section.

**1.2.1 End Point Targets**

Table 1.2.1-1 contains the End Point Targets that are established in the Hanford Mission Direction Document. They provide the basis for the program mission and are implemented through technical requirements contained in the Hanford Site Technical Baseline.

Table 1.2.1-1 End Point Targets.

1	<b>MDD, Central Plateau, Final, 28</b> Retrievably stored TRU waste retrieved, processed, shipped offsite to WIPP.
2	<b>MDD, Central Plateau, Final, 29</b> Low-level and low-level mixed waste from onsite and offsite sources (including PNNL special case wastes) will continue to be disposed of in the 200 Areas (provided it meets the Hanford Site Solid Waste Acceptance Criteria).
3	<b>MDD, Central Plateau, Interim, 30</b> Offsite TRU shipments to Hanford for interim storage will be reinstated.

**1.2.2 Technical Objectives**

Table 1.2.2-1 contains the Technical Objectives that achieve the end point targets. They are established in various Program specific documents and are implemented through technical requirements contained in the Hanford Site Technical Baseline.

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**Table 1.2.2-1 Technical Objectives - Solid Waste Programs.**

1	Start TRU retrieval project, WRAP TRU line and transfer TRU Waste to WIPP
	Retrieve TRU waste beginning 2001 (TPA-M-91) and complete by 2004 (TPA-M-91)
	Complete RH LLMW & TRU Project Management plans by 1999 & 2000 (TPA-M-91 ) and implement
	Closure of burial grounds per RCRA and Performance Assessment requirements
	Remove Spent Fuel from T-Plant
	Establish RMW treatment contracts and process waste at TPA M-19 defined throughput rates (Note, Possible acceleration to meet "Alm 10 year plan")
	Maintain the radioactive mixed waste burial trenches (Trenches T-31 and T-34 of burial ground 218-W-5). Operation of one trench as storage capacity is planned for 1997-2000.

1.2.3 Safety Objectives

Table 1.2.3-1 contains the Safety Objectives that are established in the Mission Direction Document.

**Table 1.2.3-1 Safety Objectives.**

1	<b><u>MDD, Central Core, Safety Objective S53</u></b> Conduct operations and maintenance of the Nonradioactive Waste Storage Facility (Building 616) in cold standby mode.
2	<b><u>MDD, Central Plateau, Safety Objective S39</u></b> Maintain Liquid Waste Tank Car, provide maintenance, repairs, testing and certification.
3	<b><u>MDD, Central Plateau, Safety Objective S40</u></b> Maintain and operate WRAP I facility.
4	<b><u>MDD, Central Plateau, Safety Objective S41</u></b> Provide surveillance, maintenance and monitoring of contaminated equipment stored in 221-T canyon.
5	<b><u>MDD, Central Plateau, Safety Objective S42</u></b> provide decontamination and maintenance services in support of essential safety operations at the 2706-TA Building: equipment decontamination, LLW, and RMW packaging.
6	<b><u>MDD, Central Plateau, Safety Objective S43</u></b> Conduct operations, surveillance, and maintenance of the 224-T TRU Storage and Assay Facility (TRUSAF), the Central Waste Complex (CWC) storage facilities.
7	<b><u>MDD, Central Plateau, Safety Objective S44</u></b> Conduct of operations, surveillance and maintenance of the Low Level Waste Burial Grounds (LLBG)

1.3 SUMMARY-LEVEL FORECASTING DATA

This section contains forecast information about the program inputs and outputs during the program life

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cycle. The forecast information is an integral part of the technical basis for the planning, scheduling, and budgeting process.

**1.3.1 Waste Type Data**

Table 1.3.1-1 contains the waste (Solid Waste, Tank Waste, Liquid Effluents, Special Case Waste) inventory and volume projection data. These data are used to track the waste through generation, transfer, receipt, storage, and disposition. The Program schedule and budget reflect the plans for disposition of waste.

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 1 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
<b>FY 1997</b>														
Begin Inventory	122.78	8245.52	15982.7	292.4										
Received	5563.25	1080.29	410.29	101.871	48.03									
Generated	220.33	19.88		7.0	1.0	113.55				2072.0		225		
Reduced														
Transferred					49.18	113.55				2072.0		225		
Disposed	4846.76													
End Inventory		888.9	16357.7	391.15										
<b>FY 1998</b>														
Begin Inventory		888.9	16357.7	391.15										
Received	4641.31	719.457	477.326	126.433	41.78									
Generated	224.12	19.36			1.0	113.5				1514				
Reduced			1174.45	169.22										
Transferred					43.04	113.5				1514				
Disposed	3652.03													
End Inventory		9419.03	15645.3	338.24										
<b>FY 1999</b>														
Begin Inventory		9419.03	15645.3	338.24										
Received	4396.69	823.349	513.115	134.615	41.78									
Generated	325.31		1360.71	130.79	1.0	113.55				1514				
Reduced		475.88												
Transferred			1192.89	178.96	49.98	113.55				1514				
Disposed	3738.14													
End Inventory		9554.81	16311	414.53										
<b>FY 2000</b>														
Begin Inventory		9554.81	16311	414.53										
Received	6136.74	1181.24	634.328	100.371	41.78									
Generated	263.59	24	559.8	19.92	1.0	113.55				1514				
Reduced														
Transferred			682.3	56.06	42.78	113.55				1514				
Disposed	3374.94	955.31												
End Inventory		9420.34	16826.6	488.65										
<b>FY2001</b>														
Begin Inventory		9420.34	16826.6	488.65										
Received	5521.04	1716.33	221.621	396.776	41.52									
Generated	232.47	436.66	1354.91			113.55				1325				
Reduced				137.27										



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**Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 2 of 16)**

	LLW (SOL)	LLMW (SCL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Transferred			947.76	43.81	42.53	113.55								
Disposed	2814.32	1913.19												
End Inventory		9273.75	17440.1	674.21										
FY 2002														
Begin Inventory		9273.75	17440.1	674.21										
Received	6671.83	1865.21	250.178	384.255	42.907									
Generated	367.17	1438.46	707.07		1.0	113.55				1325				
Reduced				2.99										
Transferred			436.26	183.93	43.91	113.55				1325				
Disposed	4099.82	2925.98												
End Inventory		9258.13	17943.6	861.43										
FY 2003														
Begin Inventory		9258.13	17943.6	861.43										
Received	5297.87	1342.29	113.265	373.204	43.678									
Generated	355.09	1559.68	1027.54	9.02	1.0	113.55				1325				
Reduced														
Transferred			524.39	189.85	44.68	113.55				1325				
Disposed	2713.78	2908.46												
End Inventory		8960.43	18544.9	1043.69										
FY 2004														
Begin Inventory		8960.43	18544.9	1043.69										
Received	4844.17	1675.51	68.436	36.016	43.678									
Generated	333.67	1780.36	623.26	167.78	1.0	113.55				1325				
Reduced														
Transferred			350.19	183.67	44.68	113.55				1325				
Disposed	2338.66	2699.57												
End Inventory		9361.45	19071.2	1053.68										
FY 2005														
Begin Inventory		9361.45	19071.2	1053.68										
Received	2747.14	2141.03	85.94	35.008	43.421									
Generated	331.68	947.35	793.52	1.26	1.0	113.55				1325				
Reduced														
Transferred			367.59	16.14	44.42	113.55				1325				
Disposed	2265.79	1788.69												
End Inventory		10328.8	19567.8	1063.68										
FY2006														
Begin Inventory		10328.8	19567.8	1063.68										

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 3 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Received	2723.25	1705.67	63.581	30.382	43.421									
Generated	318.21	880.04	798.78	4.86	1.0	113.55				1325				
Reduced														
Transferred			356.02	15.12	44.42	113.55				1325				
Disposed	2233.81	1673.08												
End Inventory		10676.2	20058.9	1073.68										
FY 2007														
Begin Inventory		10676.2	20058.9	1073.68										
Received	2747.02	2002.4	89.281	30.382	43.421									
Generated	327.46	748.54	830.28	0.16	1.0	113.55				1325				
Reduced														
Transferred			382.74	10.42	44.42	113.55				1325				
Disposed	2288.64	1538.74												
End Inventory		11808.8	20580.4	1083.68										
FY 2008														
Begin Inventory		11808.8	20580.4	1083.68										
Received	2752.25	2544.84	22.461	30.382	43.421									
Generated	335.29	856.92	945.04	0.16	1.0	113.55				1325				
Reduced														
Transferred			396.49	10.42	44.42	113.55				1325				
Disposed	2279.7	1518.43												
End Inventory		13311.5	21136.2	1093.68										
FY 2009														
Begin Inventory		13311.5	21136.2	1093.68										
Received	2504.33	3174.18	22.461	10.382	33.421									
Generated	577.2				1.0	113.55				1325				
Reduced		174.02	377.17	81.59										
Transferred			273.01	10.42	34.42	113.55				1325				
Disposed	2273.88	1285.01												
End Inventory		14648.1	20493.2	1001.92										
FY 2010														
Begin Inventory		14648.1	20493.2	1001.92										
Received	2464.37	2994.78	22.461	10.382	33.421									
Generated	815.14				1.0	113.55				1325				
Reduced		1126.85	1483.91	22.1										
Transferred			507.91	92.85	34.42	113.55				1325				
Disposed	2510.78	1358.44												
End Inventory		14950.9	18498.6	887.24										

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**Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIC)	LLMW (LIC)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIC)	Sanitary (SOL)	Asbestos	Special Clean Waste
<b>FY 2011</b>														
Begin Inventory		14650.9	16498.6	667.24										
Received	4344.24	3708.39	133.396	19.357	114.119									
Generated	1367.34				1.0	113.55				1325				
Reduced		2127.59	1332.71	33.43										
Transferred			670.75	132.64	115.12	113.55				1325				
Disposed	5241.96	1767.3												
End Inventory		14581.9	16302.3	721.43										
<b>FY 2012</b>														
Begin Inventory		14581.9	16302.3	721.43										
Received	4357.24	3363.31	133.396	19.357	115.918									
Generated	1363.3			48.17	1.0	113.55				1325				
Reduced		1360.19	2667.37											
Transferred			1206.14	189.32	116.92	113.55				1325				
Disposed	5255.84	2939.53												
End Inventory	5.1	13443	12436	561.54										
<b>FY 2013</b>														
Begin Inventory	5.1	13443	12436	561.54										
Received	5572.81	4365.58	133.396	119.357	165.918									
Generated	1505.99				1.0	113.55				1325				
Reduced		2041.78	1921.17	104.81										
Transferred			1181.59	148.93	166.92	113.55				1325				
Disposed	6593.8	3348.54												
End Inventory	0.5	12199.1	9340.4	428.06										
<b>FY 2014</b>														
Begin Inventory	0.5	12199.1	9340.4	428.06										
Received	5601.78	4682.1	134.306	120.365	166.497									
Generated	1287.9			100.68	1.0	113.55				1325				
Reduced		1763.56	1097.64											
Transferred			1054.06	267.78	167.5	113.55				1325				
Disposed	6400.59	4021.08												
End Inventory		10657.5	7196.87	362.23										
<b>FY 2015</b>														
Begin Inventory		10657.5	7196.87	362.23										
Received	5558.55	2404.14	133.396	119.357	166.497									
Generated	1326.82				1.0	113.55				1325				
Reduced		1113.92	2233.54	8.96										
Transferred			434.75	184.16	167.5	113.55				1325				

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Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LQ)	LLMW (LQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Disposed	6360.88	4127.58												
End Inventory		7752.64	4535.78	289.37										
FY 2016														
Begin Inventory		7752.64	4535.78	289.37										
Received	5345.93	3094.06	7.196	100.257	167.499									
Generated	1353.72				1.0	113.55				1325				
Reduced		1215.29	2090.49	57.05										
Transferred			515.32	507.85	168.5	113.55				1325				
Disposed	6494.55	4050.23												
End Inventory		5297.87	1937.16	104.92										
FY 2017														
Begin Inventory		5297.87	1937.16	104.92										
Received	5194.51	2652.94	3.598	100.257	167.499									
Generated	1241.25			92.61	1.0	113.55				1325				
Reduced		815.4	1433.74											
Transferred			502.16	284.48	168.5	113.55				1325				
Disposed	6220.76	4115.52												
End Inventory		2679.99	4.86	13.31										
FY 2018														
Begin Inventory		2679.99	4.86	13.31										
Received	5084.51	1708.26	3.598	100.257	166.497									
Generated	803.13	2340.56	386.9	100.45	1.0	113.55				1325				
Reduced														
Transferred			360.49	200.71	167.5	113.55				1325				
Disposed	5982.64	4048.02												
End Inventory		2482.46	4.86	13.31										
FY 2019														
Begin Inventory		2482.46	4.86	13.31										
Received	5069.51	1438.66	18.198	100.257	165.661									
Generated	745.56	1364.32	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.85	111.05	166.66	113.55				1325				
Disposed	5590.07	2822.73												
End Inventory		2264.42	4.86	13.31										
FY 2020														
Received		2264.42	4.86	13.31										
Generated	744.77	1021.71	0.06	10.79	1.0	113.55				1325				

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Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Reduced														
Transferred			3.5	111.05	165.66	113.55				1325				
Disposed	5556.28	2407.23												
End Inventory		2100.25	4.86	13.31										
FY 2021														
Begin Inventory		2100.25	4.86	13.31										
Received	5022.71	1783.25	29.698	100.457	163.679									
Generated	743.34	969.56	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.65	111.05	164.66	113.55				1325				
Disposed	5522.85	2287.15												
End Inventory		1981.63	4.86	13.31										
FY 2022														
Begin Inventory		1981.63	4.86	13.31										
Received	2290.71	1020.35	29.698	100.457	63.708									
Generated	367.26	1334.56	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.65	111.05	64.71	113.55				1325				
Disposed	2414.77	2133												
End Inventory		1863.64	4.86	13.31										
FY 2023														
Begin Inventory		1863.64	4.86	13.31										
Received	2293.21	836.905	47.698	104.357	62.704									
Generated	364.83	498.73	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.65	111.05	63.7	113.55				1325				
Disposed	2380.34	1270.09												
End Inventory		1748.19	4.86	13.31										
FY 2024														
Begin Inventory		1748.19	4.86	13.31										
Received	2241.21	644.335	34.098	105.365	61.732									
Generated	364.03	478.07		9.78	1.0	113.55				1325				
Reduced			0.94											
Transferred			3.65	111.05	62.73	113.55				1325				
Disposed	2347.54	1235.52												
End Inventory		1626.07	4.86	13.31										
FY 2024														
Begin Inventory		1627.07	4.86	13.31										

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**Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Received	2241.21	644.335	34.098	105.365	61.372									
Generated	364.03	478.07		9.78	1.0	113.55				1325				
Reduced			0.94											
Transferred			3.65	111.05	62.73	113.55				1325				
Disposed	2347.54	1235.52												
End Inventory		1828.07	4.86	13.31										
FY 2025														
Begin Inventory		1828.07	4.86	13.31										
Received	2430.54	623.59	67.798	111.957	60.552									
Generated	361.61	459.05	1.07	11.81	1.0	113.55				1325				
Reduced														
Transferred			4.67	112.07	61.55	113.55				1325				
Disposed	2469.57	1187.32												
End Inventory		1506.99	4.86	13.31										
FY 2026														
Begin Inventory		1506.99	4.86	13.31										
Received	2128.46	615.333	56.298	111.757	55.723									
Generated	360.88	421.75	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.65	111.05	56.72	113.55				1325				
Disposed	2372.84	1145.79												
End Inventory		1363.89	4.86	13.31										
FY 2027														
Begin Inventory		1363.89	4.86	13.31										
Received	2129.36	609.791	62.298	112.657	55.723									
Generated	360.88	415.54	0.06	10.79	1.0	113.55				1325				
Reduced														
Transferred			3.65	111.05	56.72	113.55				1325				
Disposed	2364.85	1137.02												
End Inventory		1258.8	4.86	13.31										
FY 2028														
Begin Inventory		1258.8	4.86	13.31										
Received	1770.16	591.938	44.298	108.757	55.723									
Generated	261.97	418.79	0.06	10.79		113.55				1325				
Reduced														
Transferred			3.65	111.05	55.72	113.55				1325				
Disposed	1841.23	1130.63												
End Inventory		1135.5	4.86	13.31										

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**Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SCL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIC)	LLMW (LIC)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIC)	Sanitary (SOL)	Asbestos	Special Case Waste
<b>FY 2029</b>														
Begin Inventory		1135.5	4.86	13.31										
Received	579.562	104.978	50.999	10.257	4.57									
Generated	11.97	863.62	0.06	110.79		113.55				1325				
Reduced														
Transferred			3.65	111.05	4.57	113.55				1325				
Disposed	484.24	1103.92												
End Inventory		996.78	4.86	13.31										
<b>FY 2030</b>														
Begin Inventory		996.78	4.86	13.31										
Received	481.121	88.224	23.15	2.667	1.229									
Generated	12.96	117.24												
Reduced			6.8											
Transferred			6.65	0.26	1.23									
Disposed	441.9	321.19												
End Inventory		858.05	4.86	13.31										
<b>FY 2031</b>														
Begin Inventory		858.05	4.86	13.31										
Received	454.936	63.724	25.05	2.957	1.229									
Generated	12.94	61.14												
Reduced			3.87											
Transferred			6.58	0.26	1.23									
Disposed	433.36	258.7												
End Inventory		723.72	4.86	13.31										
<b>FY 2032</b>														
Begin Inventory		723.72	4.86	13.31										
Received	437.036	59.724	19.05	2.057	0.257									
Generated	12.95	34.94												
Reduced			3.87											
Transferred			6.58	0.26	0.26									
Disposed	426.89	241.01												
End Inventory		575.87	4.86	13.31										
<b>FY 2033</b>														
Begin Inventory		575.87	4.86	13.31										
Received	443.136	65.284	26.85	3.457	0.257									
Generated	12.96	70.32												
Reduced			3.87											
Transferred			6.58	0.26	0.26									

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Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Disposed	418.9	252.14												
End Inventory		443.14	4.86	13.31										
FY 2034														
Begin Inventory		443.14	4.86	13.31										
Received	439.588	65.284	22.95	2.905	0.257									
Generated	12.92	35.71												
Reduced			4.87	1.0										
Transferred			8.58	0.28	0.28									
Disposed	431.71	230.06												
End Inventory		297.87	4.86	13.31										
FY 2035														
Begin Inventory		297.87	4.86	13.31										
Received	436.781	61.429	11.5	1.957										
Generated	10.32	48.06	7.6	1.29										
Reduced														
Transferred			7.6	1.28										
Disposed	426.28	226.89												
End Inventory		184.48	4.86	13.57										
FY 2036														
Begin Inventory		184.48	4.86	13.57										
Received	430.061	60.929	9.6	1.857										
Generated	10.32	175.83												
Reduced														
Transferred														
Disposed	426.28	221.06												
End Inventory		184.48	4.86	13.83										
FY 2037														
Begin Inventory		184.48	4.86	13.83										
Received	417.211	60.929	9.6	1.857										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.66												
End Inventory		184.48	4.86	14.09										
FY 2038														
Begin Inventory		184.48	4.86	14.09										
Received	403.11	45.228		0.257										



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**Table 1.3.1-1 Waste Volume Inventory  
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	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Generated	10.38	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	4.86	14.35										
FY 2039														
Begin Inventory		164.48	4.86	14.35										
Received	403.11	45.229		0.257										
Generated	10.38	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	4.86	14.82										
FY 2040														
Begin Inventory		164.48	4.86	14.82										
Received	403.11	45.229		0.257										
Generated	10.38	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	4.86	14.88										
FY 2041														
Begin Inventory		164.48	4.86	14.88										
Received	403.11	45.229		0.257										
Generated	10.38	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	4.86	15.14										
FY 2042														
Begin Inventory		164.48	4.86	15.14										
Received	403.11	45.229		0.257										
Generated	10.38	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	4.86	15.4										

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 11 of 16)

	LLW (SCL)	LLMW (SCL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SCL)	Asbestos	Special Case Waste
FY 2043														
Begin Inventory		164.48	4.86	15.4										
Received	403.11	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.66												
End Inventory		164.48	4.86	15.66										
FY 2044														
Begin Inventory		164.48	4.86	15.66										
Received	403.11	45.229	1.0	1.265										
Generated	10.36	35.43	0.02	0.02										
Reduced														
Transferred														
Disposed	413.47	80.66												
End Inventory		164.48	5.88	16.94										
FY 2045														
Begin Inventory		164.48	4.86	16.94										
Received	403.11	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.66												
End Inventory		164.48	5.88	17.91										
FY 2046														
Begin Inventory		164.48	5.88	17.91										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.66												
End Inventory		164.48	5.88	17.47										
FY 2047														
Begin Inventory		164.48	5.88	17.47										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 12 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Class Waste
Disposed	413.47	80.88												
End Inventory		164.48	5.88	17.99										
FY 2048														
Begin Inventory		164.48	5.88	17.99										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.88												
End Inventory		164.48	5.88	17.99										
FY 2049														
Begin Inventory		164.48	5.88	17.99										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.88												
End Inventory		164.48	5.88	18.25										
FY 2050														
Begin Inventory		164.48	5.88	18.25										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.88												
End Inventory		164.48	5.88	18.51										
FY 2051														
Begin Inventory		164.48	5.88	18.51										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.88												
End Inventory		164.48	5.88	18.77										

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 13 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
FY 2052														
Begin Inventory		164.46	5.88	18.77										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.46	5.88	19.03										
FY 2053														
Begin Inventory		164.46	5.88	19.03										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.46	5.88	19.29										
FY 2054														
Begin Inventory		164.46	5.88	19.29										
Received	403.111	45.229	1.0	0.257										
Generated	10.36	35.43	0.01	0.02										
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.46	6.89	20.56										
FY 2055														
Begin Inventory		164.46	6.89	20.56										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.46	6.89	20.84										
FY 2056														
Begin Inventory		164.46	6.89	20.84										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 14 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Disposed	413.47	80.86												
End Inventory		164.48	6.89	21.1										
FY 2057														
Begin Inventory		164.48	6.89	21.1										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	21.36										
FY 2058														
Begin Inventory		164.48	6.89	21.36										
Received	403.111	45.229	1.0	0.257										
Generated	10.36	35.43	0.01	0.02										
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	21.62										
FY 2059														
Begin Inventory		164.48	6.89	21.62										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	21.86										
FY 2060														
Begin Inventory		164.48	6.89	21.86										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	22.15										
FY 2061														
Begin Inventory		164.48	6.89	22.15										
Received	403.111	45.229		0.257										

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 15 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	22.41										
FY 2062														
Begin Inventory		164.48	6.89	22.41										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	22.67										
FY 2063														
Begin Inventory		164.48	6.89	22.67										
Received	403.111	45.229	1.0	0.257										
Generated	10.36	35.43	0.01	0.02										
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	6.89	22.93										
FY 2064														
Begin Inventory		164.48	6.89	22.93										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	24.21										
FY 2065														
Begin Inventory		164.48	7.91	24.21										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	24.47										

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Table 1.3.1-1 Waste Volume Inventory  
(cubic meters) (Sheet 16 of 16)

	LLW (SOL)	LLMW (SOL)	TRU	TRUM	HAZ	HLW	LLW (LIQ)	LLMW (LIQ)	Industrial Waste Water	Treated Liquid Effluent	Sanitary (LIQ)	Sanitary (SOL)	Asbestos	Special Case Waste
FY 2066														
Begin Inventory		164.48	7.91	24.47										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	24.74										
FY 2067														
Begin Inventory		164.48	7.91	24.74										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	25										
FY 2068														
Begin Inventory		164.48	7.91	25										
Received	403.111	45.229	1.0	0.257										
Generated	10.36	35.43	0.01	0.02										
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	25.26										
FY 2069														
Begin Inventory		164.48	7.91	25.26										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Reduced														
Transferred														
Disposed	413.47	80.86												
End Inventory		164.48	7.91	25.52										
FY 2070														
Begin Inventory		164.48	7.91	25.52										
Received	403.111	45.229		0.257										
Generated	10.36	35.43												
Disposed	413.47	80.86												
End Inventory		164.48	7.91	25.58										

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**1.3.2 Nuclear Materials**

Table 1.3.2-1 (not yet developed in the Hanford Technical Baseline) contains the nuclear materials (Special Nuclear Materials, Nuclear Fuel, Cesium Capsules Strontium Capsules) inventory and projection data. These data are used to track the nuclear materials through transfer, receipt, storage, and disposition.

**1.3.3 Facilities**

Table 1.3.3-1 contains the facility forecasting data (facility deactivation, D&D, and closure). The facility data are used to track the facility through acquisition, operations and maintenance, and disposal. The Program schedule and budget reflect the plans for disposition of excess and deactivated facilities.

**Table 1.3.3-1 Facility Inventory.**

Complex	Facility	Facility Description	Acquisition Project	M&O Project	Deactivation Project	D&D Project	Closure Project
200-SWM	218-E-10	Burial Ground		Solid Waste			
200-SWM	218-E-12B	Burial Ground		Solid Waste			
200-SWM	218-W-3A	Burial Ground		Solid Waste			
200-SWM	218-W-4B	Burial Ground		Solid Waste			
200-SWM	218-W-5	Burial Ground		Solid Waste			
200-SWM	218-W-6	Burial Ground		Solid Waste			
200-SWM	218-W04C	Burial Ground		Solid Waste			
200-SWM	218-W-3AE	Burial Ground		Solid Waste			
200-SWM	218-W5252	ELECTRICAL CONTROL		Solid Waste	Real Estate and Property Management	Real Estate and Property Management	Real Estate and Property Management
200-SWM	218-W5252A	ELECTRICAL CONTROL		Solid Waste	Real Estate and Property Management	Real Estate and Property Management	Real Estate and Property Management
200-SWM	224-T	TRUSAF		Solid Waste		Environmental Restoration	
200-SWM	2401W	PCB/RMW Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402W	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WA	CWC Storage Building		Solid Waste		Environmental Restoration	



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200-SWM	2402WB	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WC	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WD	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WE	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WF	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WG	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WH	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WI	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WJ	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WK	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2402WL	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2403WA	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2403WB	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2403WC	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2403WD	CWC Storage Building		Solid Waste		Environmental Restoration	
200-SWM	2727W	Sodium Storage Building		Solid Waste		Environmental Restoration	
200-SWM	285W	RMW Backflow Preventer		Solid Waste	Real Estate and Property Management	Real Estate and Property Management	Real Estate and Property Management
200-SWM	286W	RMW BACKFLOW PREVENTER		Solid Waste	Real Estate and Property Management	Real Estate and Property Management	Real Estate and Property Management
200-SWM	616	Non rad Haz. Waste Facility		Solid Waste		Environmental Restoration	

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200-SWM	6653	SAMPLE AND MONITORING		Solid Waste	Real Estate and Property Management	Real Estate and Property Management	Real Estate and Property Management
200-SWM	M0223	Burial Ground Trailer		Solid Waste			
200-SWM	M0278	Mobile Office		Solid Waste			
200-SWM	M0279	Mobile Office		Solid Waste			
200-SWM	M0288	CWC Staging Trailer		Solid Waste			
200-SWM	M0289	TRUSAF Trailer		Solid Waste			
200-SWM	M0437	SWM Training Trailer		Solid Waste			
200-SWM	M0438	Health Physics Technicians Trailer		Solid Waste			
200-SWM	M0535	Document Processing and Engineering Trailer		Solid Waste			
200-SWM	M0720	Mobile Office		Solid Waste			
200-SWM	M0721	Mobile Office/Operators & Operations		Solid Waste			
200-SWM	M0738	SWM Trailer		Solid Waste			
200-SWM	M0743	Maintenance Trailer		Solid Waste			
200-SWM	M0941	TRU Retrieval Trailer		Solid Waste			
200-TP	211T	Chemical Storage/Handling		Solid Waste			
200-TP	211T52	Instrumentation Building		Solid Waste		Environmental Restoration	
200-TP	214T	Metal Chemical Storage		Solid Waste		Environmental Restoration	
200-TP	221T	T Plant Canyon		Solid Waste		Environmental Restoration	
200-TP	221TA	Fan House		Solid Waste		Environmental Restoration	
200-TP	221 TB	Storage Laundry Building		Solid Waste			
200-TP	225WA	Treated Effluent Monitoring		Solid Waste		Environmental Restoration	

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200-TP	2706T	Decon Building		Solid Waste		Environmental Restoration	
200-TP	2712T	Electrical Instrumentation Building		Solid Waste		Environmental Restoration	
200-TP	2715T	Paint Storage/Materials		Solid Waste		Environmental Restoration	
200-TP	271T	Office/Main Building		Solid Waste		Environmental Restoration	
200-TP	277T	Blowdown Building		Solid Waste		Environmental Restoration	
200-TP	291T	Stack/Exhaust		Solid Waste		Environmental Restoration	
200-TP	292T	Building Laboratory		Solid Waste		Environmental Restoration	
200-TP	296T	Gaseous Effluent Release Points		Solid Waste		Environmental Restoration	
200-TP	MO371	Change Trailer		Solid Waste			
200-TP	MO433	Change Trailer		Solid Waste			
200-TP	MO739	Change Trailer		Solid Waste			
200-TP	MO892	Training Trailer		Solid Waste			
200-TP	MO909	Training Trailer		Solid Waste			
200-TP	Tunnel Trailer	Change Trailer		Solid Waste			
200-WRAP	2336W	WRAP Module 1		Solid Waste			
200-WRAP	2404WA	CWC Storage Building		Solid Waste			
200-WRAP	2404WB	CWC Storage Building		Solid Waste			
200-WRAP	2404WC	CWC Storage Building		Solid Waste			
200-WRAP	2470W	WRAP Maintenance Trailer		Solid Waste			
200-WRAP	2620W	WRAP Administrative Trailer		Solid Waste			

**1.3.4 Infrastructure**

This section contains the forecasting data for infrastructure support. These data are used to ensure the required infrastructure is available when it is needed. Table 1.3.4-1 provides the nominal, best estimate of infrastructure needs. Table 1.3.4-2 provides an estimate of the maximum probable need. The Program schedule and budget reflect the services (infrastructure) that are necessary to achieve the program mission.

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**Table 1.3.4-1 Infrastructure Requirements - Average Demand.**

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Allocated Land	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	requests/yr
Analytical Laboratory Services	540	540	540	540	540	540	540	540	540	540	sample/yr
Bioassay and Dosimetry Services	72	72	72	72	72	72	72	72	72	72	sample/yr
Biological Laboratory Services	20	20	20	20	20	20	20	20	20	20	sample/yr
Clean Laundry	117550	117550	117550	117550	117550	117550	117550	117550	117550	117550	Lbs./yr
Custodial Services	90888	90888	90888	90888	90888	90888	90888	90888	90888	90888	Sq. Ft.
Data (HLAN) Transmission	343	343	343	343	343	343	343	343	343	343	No. Of Pc's
Development Laboratory Services	62400	62400	62400	62400	62400	62400	62400	62400	62400	62400	\$/yr
Electricity	416	416	416	416	416	416	416	416	416	416	MW-hr/yr
Fab Shop Services	1070	1070	1070	1070	1070	1070	1070	1070	1070	1070	Labor -hr/yr
Guaranteed Ride Home	73	73	73	73	73	73	73	73	73	73	passengers/yr
Hanford Road Sys. Heavy Traffic	525	525	525	525	525	525	525	525	525	525	Truck loads/yr
Heavy Equipment	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	equip-days/yr
Heavy Trucks	4186	4186	4186	4186	4186	4186	4186	4186	4186	4186	Vehicle -hr/yr
In-Field Laboratory Services	11	11	11	11	11	11	11	11	11	11	sample/yr
Industrial Hygiene Services	20	20	20	20	20	20	20	20	20	20	sample/yr
Lifting (Cranes)	670	670	670	670	670	670	670	670	670	670	Crane days/yr
Non-rad Standards (Calibrations)	40	40	40	40	40	40	40	40	40	40	Calib./yr
Office Space (Program Owned)	49088	49088	49088	49088	49088	49088	49088	49088	49088	49088	Sq. Ft.
Pager Service	208	208	208	208	208	208	208	208	208	208	No. Of pagers
Potable Water	3197	3197	3197	3197	3197	3197	3197	3197	3197	3197	mgal/yr
Radioactive Standards (Calibrations)	778	778	778	778	778	778	778	778	778	778	Calib./yr
Rail Transportation	6	6	6	6	6	6	6	6	6	6	Rail cars/yr
Sedans/Light Trucks	14	14	14	14	14	14	14	14	14	14	No. Of vehicles
Taxi Service	821	821	821	821	821	821	821	821	821	821	passengers/yr
Video Communication	2245	2245	2245	2245	2245	2245	2245	2245	2245	2245	hr/yr

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**Table 1.3.4-2 Infrastructure Requirements - Peak Demand.**

Infrastructure Type	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006-2070	Units
Allocated Land	24.0	24.0	2.40	2.40	24.0	24.0	24.0	24.0	2.40	24.0	requests/yr
Analytical Laboratory Services	900	900	900	900	900	900	900	900	900	900	sample/yr
Bioassay and Dosimetry Services	72	72	72	72	72	72	72	72	72	72	sample/yr
Biological Laboratory Services	72	72	72	72	72	72	72	72	72	72	sample/yr
Clean Laundry	117550	117550	117550	117550	117550	117550	117550	117550	117550	117550	Lbs./yr
Custodial Services	90888	90888	90888	90888	90888	90888	90888	90888	90888	90888	Sq. Ft.
Data (HLAN) Transmission	343	343	343	343	343	343	343	343	343	343	No. Of Pc's
Development Laboratory Services	124800	124800	124800	124800	124800	124800	124800	124800	124800	124800	\$/yr
Electricity	3644.16	3644.16	3644.16	3644.16	3644.16	3644.16	3644.16	3644.16	3644.16	3644.16	MW-hr/yr
Fab Shop Services	1380	1380	1380	1380	1380	1380	1380	1380	1380	1380	Labor -hr/yr
Guaranteed Ride Home	3285	3285	3285	3285	3285	3285	3285	3285	3285	3285	passengers/yr
Hanford Road Sys. Heavy Traffic	9125	9125	9125	9125	9125	9125	9125	9125	9125	9125	Truck loads/yr
Heavy Equipment	1505	1505	1505	1505	1505	1505	1505	1505	1505	1505	equip-days/yr
Heavy Trucks	13505	13505	13505	13505	13505	13505	13505	13505	13505	13505	Vehicle -hr/yr
In-Field Laboratory Services	60	60	60	60	60	60	60	60	60	60	sample/yr
Industrial Hygiene Services	72	72	72	72	72	72	72	72	72	72	sample/yr
Lifting (Cranes)	670	670	670	670	670	670	670	670	670	670	Crane days/yr
Non-rad Standards (Calibrations)	360	360	360	360	360	360	360	360	360	360	Calib./yr
Office Space (Program Owned)	49088	49088	49088	49088	49088	49088	49088	49088	49088	49088	Sq. Ft.
Pager Service	208	208	208	208	208	208	208	208	208	208	No. Of pagers
Potable Water	3554.11	3554.11	3554.11	3554.11	3554.11	3554.11	3554.11	3554.11	3554.11	3554.11	mgal/yr
Radioactive Standards (Calibrations)	852	852	852	852	852	852	852	852	852	852	Calib./yr
Rail Transportation	6	6	6	6	6	6	6	6	6	6	Rail cars/yr
Sedans/Light Trucks	14	14	14	14	14	14	14	14	14	14	No. Of vehicles
Taxi Service	5110	5110	5110	5110	5110	5110	5110	5110	5110	5110	passengers/yr
Video Communication	2245	2245	2245	2245	2245	2245	2245	2245	2245	2245	hr/yr

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#### 1.4 DRIVERS

This section identifies the documents that are sources of program requirements, including Key and Regulatory Drivers.

##### 1.4.1 Key Drivers

Table 1.4.1-1 lists the source documents that tend to drive the program mission (e.g., Mission Direction Document, Tri-Party Agreement).

Table 1.4.1-1 Key Drivers.

<b>Name</b>	<b>Title</b>
DOE Order 5633.3B	Control and Accountability of Nuclear Materials
DOE/RL-96-14	Updated Draft Mission Direction Document, June 1996
Tri-Party Agreement	Hanford Federal Facility Agreement and Consent Order:89-10, Rev. 1

##### 1.4.2 Other Drivers

All documents and applicable requirements to the Solid Waste Division are listed in WHC-IP-1120, REV. 4, "Standards/Requirements Identification Document (S/RID)."

#### 1.5 FUNCTIONAL DEFINITIONS

This section contains the Hanford Site Technical Baseline functions that are assigned to the program. It describes the program work in terms consistent with the Hanford Site Technical Baseline Database System.

##### 1.5.1 Manage Solid Waste Remediation System

Maintain a safe and compliant solid waste operational environment by continually assessing and maintaining the solid waste operational environment in a safe and compliant condition.

Maintain safe and compliant solid waste system, equipment and structures. Continually assess and maintain the solid waste facility systems, equipment, and structures, and their operation in a safe condition. Maintain a qualified solid waste staff, and maintain required solid waste facility and operating documentation.

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Maintain safe and compliant solid waste documentation [Safety Analysis Reports (SAR), Interim Operational Safety Requirements (OSR), Waste Acceptance Criteria, Performance Assessments (PAs), etc.]. Maintain required solid waste facility and operating documentation related to safe and compliant operations.

Provide program control including scheduling, financial analysis, change control preparation, organization financial/business management, programmatic organizational financial/schedule analysis and program/performing organization business reporting activities. Scheduling activities include fiscal year and outyear development, cost account monitoring, and change control tasks and reporting. Financial activities include fiscal year budget development and outyear requirements planning, cost account monitoring and change control tasks including variance analysis reports and estimate at completion report preparation.

Dispose solid waste. Schedule solid waste package disposal and prepare waste transport package and disposal documentation. Provide final inspection of the solid waste package, load, and place in disposal site.

Through a systems engineering approach develop and maintain baseline documentation including defining the technical baseline of the program and interfaces with other site programs, develop alternatives and trade studies for materials requiring a path-definition for management and tracking of solid waste through the Solid Waste Information Tracking System (SWITS).

Prepare solid waste disposition specifications. Generate specifications for solid waste operations include treatment, packaging, certification, storage, shipping, disposition, and archiving samples and records.

Assess solid waste characterization information. Evaluate the solid waste characterization information consisting of generator request information, process knowledge information, and waste sample characterization data, against solid waste disposition requirements and provide validation of meeting the disposition requirements.

Assess solid waste treatment, storage, and disposal (TSD) capability needs and resources based on required versus design throughput and capacities.

Issue environmental documentation for planned facilities and operations, in accordance with Solid Waste Program schedule.

Obtain and maintain required permits for operation and closure of solid waste facilities.

Issue and maintain an integrated "Solid Waste Program Multi-Year Work Plan."

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Maintain "Solid Waste Technical Baseline Description."

Issue and maintain "Interface Control Documents" with all programmatic interfaces.

Establish criteria for common aspects of safety analyses and issue integrated safety documentation for planned facilities and operations.

Verify LLW and LLMW packages to confirm generator characterizations.

1.5.2 Acquire Solid Waste Remediation System

Not applicable to this program.

1.5.3 Operate and Maintain Solid Waste Remediation System

Table 1.5.3-1 Operate and Maintain Solid Waste Remediation System Functions.

Number	Name/Description
4.3	<b>Remedy Solid Waste</b> This function safely stores solid waste currently contained in burial grounds and above ground storage facilities pending final disposition. It retrieves, treats, and disposes of buried wastes and solid waste materials generated during past missions, solid wastes generated during the cleanup mission, solid waste received from offsite generators, and the solid components of hazardous liquids.
4.3.1	<b>Maintain Solid Waste Safety and Compliance Envelope</b> Continually assess and maintain the waste form and the facility structures and operations in a safe and compliant condition. Includes maintaining a qualified facility staff, and maintaining required safety/compliance documentation.
4.3.2	<b>Receive Solid Waste</b> Retrieve legacy solid waste (1970-1989) and receive solid waste generated during cleanup operations and solid waste from other missions.
4.3.3	<b>Characterize Solid Waste</b> Identify, inventory, and characterize the waste by reviewing the process operations (current and historical), by reviewing new waste information and by sampling and analyzing the waste inventory. Assess the current condition of the waste. Archive the results of these investigations.
4.3.4	<b>Determine Solid Waste Disposition Requirements</b> Compile and sort imposed requirements, define requirements that result from proposed solutions and required capabilities, and assess constraints under which the function must operate.
4.3.5	<b>Disposition Solid Waste</b> Package and certify the solid waste, store or ship as needed, treat and/or immobilize it, and accomplish final disposition.



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1.5.4 Dispose of Solid Waste Remediation System

Not yet developed in Hanford Site Technical Baseline.

1.6 PROGRAM LIFE CYCLE REQUIREMENTS

This section contains the requirements for each program life cycle phase including the program management requirements.

1.6.1 Manage Solid Waste Remediation System

Not yet developed in Hanford Site Technical Baseline.

1.6.2 Acquire Solid Waste Remediation System

Not applicable to this program.

1.6.3 Operate and Maintain Solid Waste Remediation System

Table 1.6.3-1 Operate and Maintain Solid Waste Remediation System

1	<b>SW 96MYPP(9D)</b> Suspect TRU solid waste shall be retrieved and characterized.
2	<b>SW 96MYPP (20D)</b> Contaminated equipment storage and storage of spent fuel elements shall be provided at T Plant.
3	<b>SW 96MYPP(15D)</b> Solid waste shall be shipped and waste transfer verified.
4	<b>SW 96MYPP (8D)</b> Required solid waste facility and operating documentation shall be maintained.
5	<b>SW 96MYPP(1D)</b> Solid Waste minimization goals shall be met by developing repackaging techniques, planning, and recycling.
6	<b>SW 96MYPP (21D)</b> Final disposition of solid waste shall be accomplished by treatment/storage and/or immobilization for packaging; certification; packaging; and storage and/or shipment.
7	<b>SW 96MYPP(7D)</b> Safe and compliant solid waste documentation shall be maintained.
8	<b>SW 96MYPP (19D)</b> Solid waste shall be repackaged to ensure that the solid waste is in a container suitable for the waste type.
9	<b>SW 96MYPP (2D)</b> Solid Waste operations shall be within requirements established by the U.S. Environmental Protection Agency (EPA) Resources Conservation and Recovery Act (RCRA) and State of Washington Department of Ecology (Ecology) and the Department of Health (DOH) for treatment, storage, disposal, and decontamination of waste.

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10	<b>SW 96MYPP(14D)</b> Newly generated solid waste generated during Hanford Cleanup mission operations and from other missions shall be received for treatment, storage, and disposal.
11	<b>SW 96MYPP (17D)</b> High dose rate waste and contaminated equipment shall be processed in the 221-T canyon to meet applicable standards for disposal, storage, re-use, or free release.
12	<b>SW 96MYPP(25D)</b> Archival storage and retrieval operations for the analyzed solid waste process sample analysis data shall be provided.
13	<b>SW 96MYPP (13D)</b> Solid waste shall be stored in a safe and compliant manner prior to shipment to an approved treatment and/or disposal site.
14	<b>SW 96MYPP (3D)</b> Solid Waste operations shall utilize the best demonstrated available technologies shall be utilized.
15	<b>SW 96MYPP (24D)</b> Solid waste shall be certified and verified.
16	<b>SW 96MYPP(10D)</b> Solid waste shall be treated to convert the waste to an acceptable form for final disposition.
17	<b>SW 96MYPP (12D)</b> Contents of "unknown" or "backlog" wastes shall be inspected to provide segregation and ensure compliant packaging of waste.
18	<b>SW 96MYPP(22D)</b> Waste received from generators shall be identified, inventoried, and characterized, the current condition of the waste shall be assessed, and the results archived.

19	<b>96MYPP(23D)</b> Solid waste characterization information shall be assessed and validation that the disposition requirements were met provided.
20	<b>96MYPP(11D)</b> container contents of newly generated waste shall be inspected to verify waste contents.
21	<b>SW 96MYPP(4D)</b> A safe and compliant solid waste operational environment shall be maintained.
22	<b>SW 96MYPP(5D)</b> Safe and compliant solid waste systems, equipment and structures shall be maintained.
23	<b>SW 96MYPP(16D)</b> Solid waste shall be disposed of by placement in a disposal site.
24	<b>SW 96MYPP(6D)</b> A qualified solid waste staff, and required solid waste facility and operating documentation shall be maintained.
25	<b>SW 96MYPP(18D)</b> Incoming wastes shall be received, stored, contained, decontaminated, and repackaged for reduction in radiation fields and recategorization from mixed to non-mixed and/or Greater Than Category 3 low level to Category 1 or 3 low-level or, if possible, to levels making the waste a releasable (nonradioactive) material.
26	<b>MDD(229)</b> Conduct operations and maintenance of the Non-radioactive Waste Storage Facility (Building 616) in cold standby mode.
27	<b>MDD(186)</b> Maintain Liquid Waste Tank Car: provide maintenance, repairs, testing and certification.
28	<b>MDD(187)</b> Maintain and operate WRAP I facility.
29	<b>MDD(188)</b> Provide surveillance, maintenance and monitoring of contaminated equipment stored in the 221-T Canyon.
30	<b>MDD(189)</b> provide decontamination and maintenance services in support of essential safety operations at the 2708-TA Building: equipment decontamination: LW and RMW packaging.

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31	<b>MDD(190)</b> conduct operations, surveillance, and maintenance of the 221-T TRU Storage and Assay Facility (TRUSAF), the Central Waste Complex (CWC) storage facilities.
32	<b>MDD(191)</b> Conduct operations, surveillance and maintenance of the Low Level Waste burial Grounds (LLBG).
33	<b>MDD(78)</b> Retrievably stored TRU waste retrieved, processed, shipped off-site to WIPP.
34	<b>MDD(79)</b> Low-level and low-level mixed waste from on-site and off-site sources (including PNNL special case wastes) will continue to be disposed of in the 200 Area.
35	<b>MDD(77)</b> Off-site TRU shipments to Hanford for interim storage will be reinstated.
36	<b>1995 HMP, Vol. 1, para. 3.3.3.2(02D)</b> The 200 Areas disposal systems shall use barriers to limit infiltration by rainwater.
37	<b>1995 HMP, Vol. 1, para. 3.3.3.2(03D)</b> Site-specific CERCLA RODs or RCRA past-practices corrective measures shall control the actual cleanup of unsegregated buried solid waste.
38	<b>1995 HMP, Vol. 1, para. 3.3.3.2(10D)</b> Nonradioactive hazardous solid waste shall be shipped offsite for treatment and disposal.
39	<b>1995 HMP, Vol. 1, para. 3.3.3.2(13D)</b> Newly generated solid waste shall be segregated by waste type with LLW disposed of onsite, mixed waste treated and disposed of onsite, and TRU waste treated and disposed of offsite.
40	<b>1995 HMP, Vol. 1, para. 3.3.3.2(14D)</b> Disposal of retrievably stored and newly generated TRU solid waste shall be in accordance with the Hanford Defense Waste Environmental Impact Statement (HDW-EIS), DOE/EIS-113.

1.6.3.1 Remedy Solid Waste Remediation System

Table 1.6.3.1-1 Remedy Solid Waste Remediation System.

1	<b><u>Offsite Disposition of Transuranic Wastes</u></b> Transuranic wastes that have been approved for offsite disposition shall be packaged in accordance with the waste acceptance criteria of the offsite waste disposal facilities and shipped in accordance with transportation requirements to the offsite waste disposal facilities.
2	<b><u>Offsite Disposition of Hazardous and Mixed Wastes</u></b> Hazardous and mixed wastes that have been approved for offsite disposition shall be packaged in accordance with the waste acceptance criteria of the offsite waste disposal facilities and shipped in accordance with transportation requirements to the offsite waste disposal facilities.
3	<b><u>Remedy Solid Waste Mission</u></b> Buried waste, solid waste materials generated during past missions and solid waste generated during the cleanup mission shall be dispositioned.

1.6.4 Dispose of Solid Waste Remediation System

Not yet developed in Hanford Site Technical Baseline.

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## 1.7 PROGRAM ISSUES AND ASSUMPTIONS

This section contains the issues that must be resolved by the program. These include program-specific issues, as well as the site-level issues that have been assigned to the program for resolution. It also contains the assumptions that are used as a basis for the development of program plans until the issues are formally resolved with records of decision (see Table 1.7-1).

Additionally, various Program Constraints are applicable to the MYWP. The following apply:

### Uncertainties in waste data impact effective planning for treatment, storage, disposal

Volume and characterization data for some waste types are uncertain and add to planning risks. These uncertainties affect waste identified for disposition by the Solid Waste Program. Future National Environmental Policy Act (NEPA) and Federal Facility Compliance Act (FFCAct) decisions may impact the future volumes and types of waste received.

Many factors contribute to uncertainties in waste data. Data on older waste (circa post-1970 stored TRU waste) are less detailed and less specific than data on new waste. Volume forecasting contains uncertain aspects due to funding availability, programmatic impacts, and decisions awaiting approval through the NEPA process and FFCAct planning.

### Insufficient TRU Analytical Laboratory Support at Hanford

Emerging requirements regarding WRAP process support and WIPP waste acceptance criteria have outpaced available analytical capabilities, both within the DOE complex and in the commercial sector. Specialized laboratory facilities are required to analyze TRU contaminated samples to environmental protocols for waste processing and shipment to the WIPP. Facilities at the Hanford site and capacity on a national scale (commercial and DOE) is extremely limited. The Hanford site needs these services to support the WRAP facility. Commercial laboratories may provide interim services for lower-activity services (<200 nCi/gm). Hanford Analytical Labs are working with offsite DOE facilities to obtain services for >200 nCi/gm samples.

### T Plant Related Issues

Since line item funding is not provided in FY 1997 for T Plant ventilation upgrade, project C-077, then there will be a year-for-year slip in the completion date of June, 2001, resulting in risk in personnel working conditions related to temperature control, and work delays.

### TRU Head Gas Sampling

Transportation to WIPP in TRUPACT containers requires that headgas samples be taken. The headgas sampling capability was originally in Project W-112, but was removed when TRU retrieval and WRAP TRU Processing were deleted from the funding baseline. There is no current planning in place to support this effort. Funding for this will be addressed by change request early in FY1997 along with responses to a WIPP certification audit performed at the end of FY1997.

### Sodium Storage

Solid Waste Operations maintains indefinite storage of radioactively contaminated metallic sodium material (Sodium Reactor Experiment and Hallam Sodium). The DOE plan to shutdown PUREX operations has resulted in an indeterminate delay in the use of converted sodium hydroxide. Alternate users such as the Savannah River Site were evaluated, but not found viable. Currently, it remains in non-RCRA storage classified as material. Solid Waste is awaiting a decision from TWRS (planned for FY1998) regarding the potential use of the sodium in the privatized vitrification process. If no use is identified, this material will be designated as RCRA mixed waste. Once sodium material has been declared as waste, it must be placed in RCRA compliant storage and/or properly disposed. At this time, construction of storage facilities for tanks of Hallam sodium has not been initiated while commercial treatment is pursued. No funding currently allocated to Sodium Treatment.

### WIPP Operation

The current projected capacity of the CWC is based on WIPP receiving certified TRU waste from Hanford.

### Initiation of TRU Waste Shipments to WIPP

Preparatory work for shipment of TRU waste to WIPP was truncated in FY1995 and recently restarted as reflected in this MYWP. A solid basis of estimate has been performed which defines requirements for startup of the WRAP TRU line, however, a comprehensive plan for initiating shipments to WIPP (including activities such as head gas sampling originally provided by project W-112 and TRU lab capability) has not yet been completed. Additionally, a WIPP certification team recently completed an audit of WRAP and the results have not yet been published. A change request will be submitted early in FY1997 identifying all workscope required to initiate WIPP shipment on 1/7/98. If WIPP continues to be delayed, additional RCRA-compliant mixed waste storage-capacity will be required.

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**Facility Closure**

Institutional control and the future mission of the Hanford site remain an issue concerning the Low Level Waste Burial Ground closure. Due to the proximity of facilities in the 200 Areas, utilization of land for utilities, access roads, and other adjacent activities will impact the current closure schedule.

**Project W-113 TRU Retrieval**

Project W-113 planning does not reflect TPA M-91-04. A change request will be initiated in FY1997 to adjust outyear schedules and budget to meet the TPA M-91 milestones.

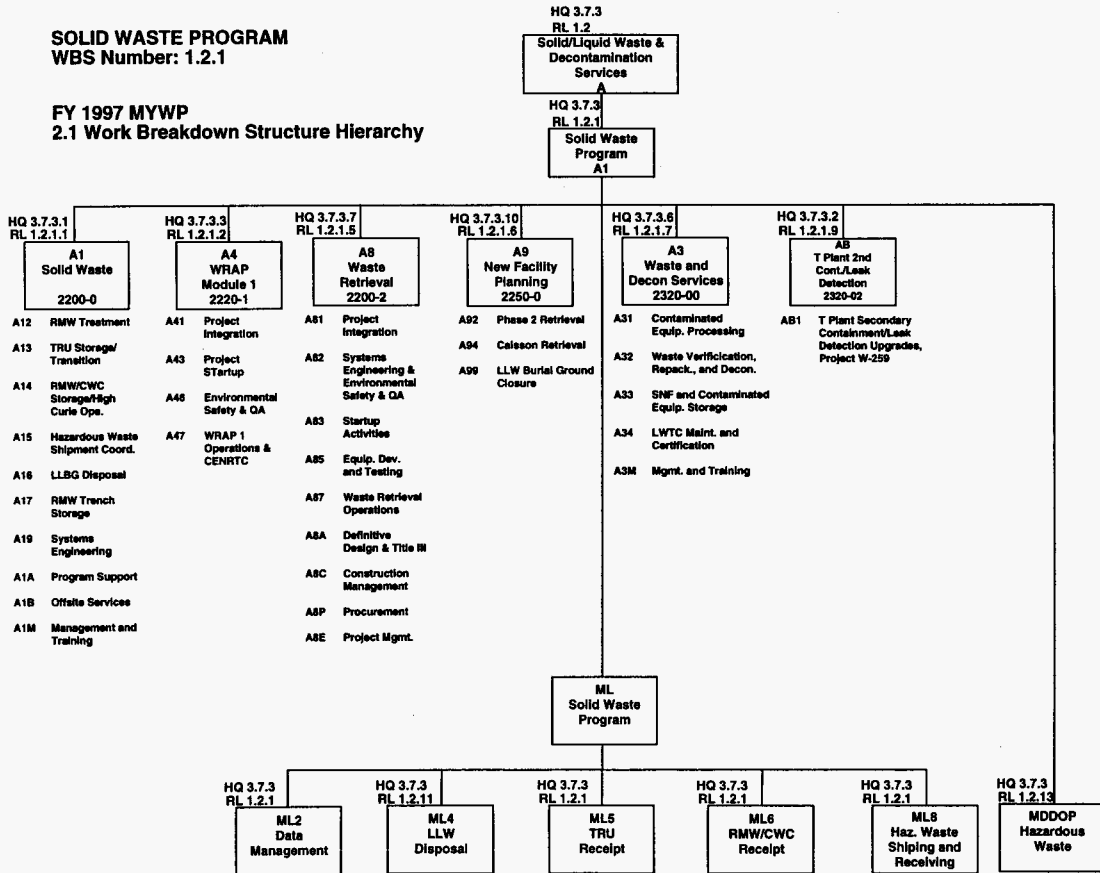
Table 1.7-1 Program Issues and Assumptions.

	Issue	Interim Decision	Champion
1	<b>Sodium Disposition</b> Potential use as a neutralization agent for tank waste is projected to be beyond 2015.	Interim store in the 400 Area and CWC until eventual use by TWR.	Mecca
2	<b>TRU Waste Disposition</b> The projected volume of TRU waste at Hanford exceeds the volume allotted for Hanford waste at WIPP.	DOE Order 5820.2A, Chapter 11, establishes the DOE policy for TRU waste. a. "Transuranic waste shall be certified to be in compliance with the Waste Isolation Pilot Plant-Waste Acceptance Criteria, placed in interim storage (if required), and sent to the Waste Isolation Pilot Plant." DOE Order 5820.2A, Chapter 11, establishes the DOE policy for TRU waste. a. "Transuranic wastes shall be certified to be in compliance with the Waste Isolation Pilot Plant-Waste Acceptance Criteria, placed in interim storage (if required), and sent to the Waste Isolation Pilot Plant."	Guercia
3	<b>TRU Waste Disposal Location</b> It has not been decided where TRU tank waste will be dispositioned. This waste is not explicitly contained in the Integrated Database (IDB) as high level waste.	DOE Order 5820.2A, Chapter 11, establishes the DOE policy for TRU waste. a. "Transuranic waste shall be certified to be in compliance with the Waste Isolation Pilot Plant-Waste Acceptance Criteria, placed in interim storage (if required), and sent to the Waste Isolation Pilot Plant." DOE Order 5820.2A, Chapter 11, establishes the DOE policy for TRU waste. a. "Transuranic wastes shall be certified to be in compliance with the Waste Isolation Pilot Plant-Waste Acceptance Criteria, placed in interim storage (if required), and sent to the Waste Isolation Pilot Plant."	Kinzer
4	<b>TRU Waste Long-Term Storage</b> Criteria for long-term storage of TRU waste have not been defined.	Continue to store TRU waste onsite in interim storage pending availability of an offsite repository.	Kinzer
5	<b>Land Use Plan 200</b> The interim end state for the 200 Areas has not been defined.	The 200 Area and central plateau will be used for the management of nuclear materials and the collection and disposal of waste materials that remain on site and for other related and compatible uses. Cleanup levels and disposal standards will be established in the CERCLA and RCRA permit modifications. Soil sites remediated consistent with ROD cleanup standards.	McClain
6	<b>Soil Cleanup Criteria</b> Criteria for contaminated soil cleanup have not been integrated.	Soil sites remediated consistent with ROD cleanup standards.	McClain
7	<b>End State for Canyon Facilities</b> The end state for the canyon facilities has not been clearly defined.	Canyon facilities will be partially demolished with material disposed onsite.	McClain

**Section 2.0**  
**Work Breakdown**  
**Structure**

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**2.1 Work Breakdown Structure Hierarchy**



2.1-1

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<b>4 WBS ELEMENT CODE</b> 1.2.1.1	<b>5 WBS ELEMENT TITLE</b> RMW Treatment	
<b>6 INDEX LINE NO.</b> 1A12	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines. Also included is computer hardware and software, vehicle maintenance, general office supplies and field supplies, and "Termination for Convenience" costs. This element consists of MW treatment activities as follows:

- Tributyl phosphate treatment
- Thermal treatment
- Direct disposal (backlog soils)
- MW characterization
- Small/unique wastes
- Macroencapsulation

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.1
<b>4 WBS ELEMENT CODE</b> 1.2.1.1.3	<b>5 WBS ELEMENT TITLE</b> Transuranic Storage/Transition	
<b>6 INDEX LINE NO.</b> 1A13	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included is computer maintenance, vehicle maintenance, general office supplies and field supplies.

Transuranic (TRU) storage is the overall operation and maintenance of the Transuranic Storage and Assay Facility (TRUSAF). TRUSAF provides Resource Conservation and Recovery Act (RCRA) compliant storage of TRU mixed wastes and certified TRU wastes. Newly generated Contact-Handled (CH) TRU waste drums are received at TRUSAF for x-ray examinations and TRU content assay. The TRUSAF (224-T Building) processes up to 3,500 ft<sup>3</sup> of CH-TRU per year and provides the final quality assurance oversight necessary to assure that the waste complies with the Waste Isolation Pilot Plants (WIPP) Waste Acceptance Criteria (WAC). The assay system is capable of distinguishing whether the TRU content is above or below the 100 nCi/g limit for Low Level Waste (LLW), thereby reducing the number of drums requiring interim storage. TRUSAF also provides mixed waste storage

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in accordance with WAC 173-303. If drums of waste are below the TRU limit they are sent to the LLW Burial Grounds for disposal or Central Waste Complex for further interim storage. Funding to perform actual receipt activities is funded by the chargeback/assessment program ML5.

These support functions include engineering analysis, building surveillance and monitoring, facility maintenance and equipment calibration, personnel training and certification, database management, quality assurance and quality control, facility utility costs, design and procurement of support equipment, Treatment, Storage, and Disposal (TSD) statutory/regulatory compliance, facility upgrades, engineering studies through development of functional design criteria, waste certification activities, waste acceptance criteria development, TSD spill prevention, RCRA dangerous waste permit application activities, safety documentation activities, National Environmental Protection Agency documentation activities, operations support, work control, facility cognizant engineering, operations, lab support, technical support, RCRA closure plan activities, sampling activities, health physics, and safety and environmental engineering support activities. This includes activities necessary for the planned transition of the 224-T Facility to EM-40. Activities include development of the memorandum of understanding (MOU) with EM-40, permit closure negotiations, work plan/procedure development, transition training, removal of waste inventory, cell entry preparation, cell characterization, and facility characterization. All inventory is planned for removal by the end of FY97 with transition to occur mid-FY98.

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.3=1
<b>4 WBS ELEMENT CODE</b> 1.2.1.1.4	<b>5 WBS ELEMENT TITLE</b> RMW/CWC Storage/High Curie Operations	
<b>6 INDEX LINE NO.</b> 1A14	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included is computer hardware and software, vehicle maintenance, general office supplies and field supplies.

Radioactive Mixed Waste (RMW)/Central Waste Complex (CWC) storage is the overall operation and maintenance of the CWC which provides permitted Resource Conservation and Recovery Act (RCRA) and Toxic Substance and Control Act (TSCA) compliant mixed waste storage for the Hanford site. Mixed waste includes radioactive low level waste and Transuranic (TRU) mixed waste. The CWC also stores other wastes such as contaminated oils, chelating agents and certain other TRU and greater than Class 3 Wastes. Approximately 12,000 cubic feet of mixed waste is received annually. The CWC consists of a series of metal above ground RMW buildings (19 total), the mixed waste storage pad, polychlorinated biphenyls storage facility, low flash point storage modules (12 total) and alkali metal waste

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storage (12 total). These support functions include engineering analysis, building surveillance and monitoring, facility maintenance and equipment calibration, personnel training and certification, data base management, quality assurance and quality control, facility utility costs, design and procurement of support equipment, Treatment, Storage, and Disposal (TSD) statutory/regulatory compliance, facility upgrades, engineering studies through development of functional design criteria, waste certification activities, waste acceptance criteria development, TSD spill prevention, RCRA dangerous waste permit application activities, safety documentation activities, National Environmental Protection Agency documentation activities, operations support, work control, facility cognizant engineering, operations, lab support, technical support, RCRA closure plan activities, sampling activities, health physics, and safety/environmental engineering support activities.

Additional activities provide for acceptance and placement in CWC of the TRU inventory from 224-T and the operations impact from the curie loading associated with this waste inventory.

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<b>4 WBS ELEMENT CODE</b>  1.2.1.1.5	<b>5 WBS ELEMENT TITLE</b>  Hazardous Waste Shipment Coordination	
<b>6 INDEX LINE NO.</b>  1A15	<b>7 REVISION NO. AND AUTHORIZATION</b>  N/A	<b>8 DATE</b>  N/A
<b>9 APPROVED CHANGES</b>  N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b>  N/A	<b>11 BUDGET AND REPORTING NUMBER</b>  EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included is computer hardware and software, vehicle maintenance, general office supplies and field supplies.

Hazardous Waste Storage Operations is the overall operation and maintenance of the 616 Non-radioactive Dangerous Waste Storage Facility (NRDWSF). The 616 Building serves as a standby storage facility in support of non-radioactive dangerous waste shipments offsite for treatment and disposal. This building provides capability for Toxic Substances Control Act (TSCA) and Resource Conservation and Recovery Act (RCRA) compliant storage of Non-radioactive Dangerous Waste per WAC 173-303. Funding to perform actual shipment activities is funded by the chargeback/assessment program ML8.

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<b>1 PROJECT TITLE/PARTICIPANT</b>  Solid Waste Program	<b>2 DATE</b>  08/31/96	<b>3 IDENTIFICATION NO.</b>  3.7.3.1
<b>4 WBS ELEMENT CODE</b>  1.2.1.1.6	<b>5 WBS ELEMENT TITLE</b>  Low-Level Burial Grounds	
<b>6 INDEX LINE NO.</b>  1A16	<b>7 REVISION NO. AND AUTHORIZATION</b>  N/A	<b>8 DATE</b>  N/A
<b>9 APPROVED CHANGES</b>  N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b>  N/A	<b>11 BUDGET AND REPORTING NUMBER</b>  EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included is computer hardware and software, vehicle maintenance, general office supplies and field supplies.

Low Level Waste Burial Ground (LLBG) Operations is the overall operation and maintenance of Hanford's Low Level Waste (LLW) near-surface disposal trenches located in 200 East and 200 West Areas. The main purpose of the LLBG operations is to receive and dispose of LLW from onsite and offsite generators. It receives for disposal approximately 200,000 cubic feet of contact handled and remote-handled waste on an annual basis. The burial grounds are composed of active (unfilled) and new trenches. Active burial grounds include 218-W 3A, 218-W-3AE, 218-W-4C, 218-E-10 and 218-E-12B, (sub reactor compartments), and 218-W-4B (caissons). Future low level burial grounds will include 218-W-6.

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This activity funds managerial, operational, technical, and administrative support to set up and operate the LLBGs. Support functions include engineering analysis, facility surveillance and monitoring, facility maintenance and equipment calibration, personnel training and certification, database management, quality assurance and quality control, facility utility costs, design and procurement of support equipment, Treatment, Storage, Disposal (TSD) Facility statutory/regulatory compliance, TSD spill prevention, Resource Conservation and Recovery Act (RCRA) dangerous waste permit application activities, safety documentation activities (except MSAR), National Environmental Policy Act (NEPA) documentation activities, operations support, work control, facility cognizant engineering, operations, lab support, technical support, sampling activities, health physics, Performance Assessment (PA), and safety and environmental engineering support activities.



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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.1
4 WBS ELEMENT CODE 1.2.1.1.7	5 WBS ELEMENT TITLE RMW Trench Storage	
6 INDEX LINE NO. 1A17	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included is computer hardware and software, vehicle maintenance, general office supplies and field supplies.

Radioactive Mixed Waste (RMW) trench storage is the overall operation and maintenance of the two RMW trenches provided by Project W-025. These two trenches are RCRA compliant and landfills which contain double lined leachate collections systems and are located in 218-W-5 Burial Ground. They provide disposal capacity for 270,000 cubic feet of low level RMW per trench. The landfill design will allow for operation of heavy equipment and placement of heavy waste loads. The waste is expected to come mainly from onsite waste generators, particularly the Environmental Restoration Program.

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This activity funds managerial, operational, technical, and administrative support to initiate storage operations in the RMW Disposal Trenches. Additionally, it provides funding for engineering and design support for final closure. Support functions include engineering analysis, facility surveillance and monitoring, facility maintenance and equipment calibration, personnel training and certification, database management, quality assurance and quality control, facility utility costs, design and procurement of support equipment, Treatment, Storage and Disposal (TSD) statutory/regulatory compliance, Resource Conservation and Recovery Act dangerous waste permit application activities, safety documentation activities, operations support, work control, facility cognizant engineering, operations, lab support, technical support, RCRA closure plan activities, sampling activities, health physics, and safety and environmental engineering support activities.

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<b>4 WBS ELEMENT CODE</b> 1.2.1.1	<b>5 WBS ELEMENT TITLE</b> Systems Engineering	
<b>6 INDEX LINE NO.</b> 1A19	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines. Also included are computer hardware and software, vehicle maintenance and general office supplies. This element consists of Systems Engineering activities as follows:

- Solid Waste Technical Baseline Document
- Interface Control Documents
- Systems Analysis
- Risk Assessment
- Site-Wide Systems Engineering
- Environmental Management System
- Site Integrated Schedule
- DNFSB 94-2

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.1
<b>4 WBS ELEMENT CODE</b> 1.2.1.1	<b>5 WBS ELEMENT TITLE</b> Program Support	
<b>6 INDEX LINE NO.</b> 1A1A	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines. Also included are computer hardware and software, and general office supplies. This element consists of Program Support activities as follows:

- Program Management (1A1A01)
- DOE Walk-in Work (1A1A06)
- Data Management (1A1A07)
- Safety and Health Integration (1A1A08)
- Master SAR (1A1A04)
- SW EIS (1A1A05)

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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.1
4 WBS ELEMENT CODE 1.2.1.1.B	5 WBS ELEMENT TITLE Offsite Services	
6 INDEX LINE NO. 1A1B	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines, as listed in more detail in the attachment. Also included are computer hardware and software, and general office supplies.

This product line represents work for off-site contractors (other U.S. Department of Energy offices and specialized agencies, i.e., PSNS) provided by Solid Waste Management. Three key areas are encompassed by this product line activity. These areas are waste receipt and handling of offsite low-level and low-level mixed wastes, off-site generator assistance, acceptance of the Navy's Defueled Submarine Reactor Compartments (SRC), and Federal Facilities Compliance Act (FFCA) technical support to the U.S. Department of Energy Richland Office (RL). Funding is provided via DOE interworks, MPO, funding (fin plan), or other approved funding mechanism, and is performed on an as requested/needed basis.

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Offsite Generator Assistance is provided via the Generator Assistance Program (GAP). This program is responsible for direct point of contact support to all offsite generators shipping low-level and radioactive mixed waste to the Hanford Site CWC and Burial Grounds. The GAP assists generators in all developmental phases of waste certification including program planning, Quality Assurance, working level procedures, training, and complete waste characterization and designation. Further support to offsite generators is provided to reclassify and maintain their program status from a limited to full approval status.

This product line further provides for the acceptance and disposal of the Navy's defueled Submarine Reactor Compartments (SRC) and other ancillary DOE wastes such as KAPL pumps, KAPL core baskets, Bettis pumps, and other Bettis wastes. Activities include preparation of waste acceptance criteria and promulgation of this criteria to the Navy via approved documentation, providing all estimates and schedules, and obtaining funding from DOE or the Navy in support of SRC disposition. Operations and maintenance of the Navy Trench (218-E-12B, Trench 94) is provided under this activity through trench preparation and construction of SRC foundations in accordance with the Navy design and applicable Hanford procedures.

Prior to receipt of waste, all necessary permits and completed documentation (e.g., Acceptance and Transport Movement Checklist) are prepared and approved. Inspection and acceptance of waste packages as they are received to verify they meet the waste acceptance criteria is also performed. For SRC disposal a Transport Manager to represent RL and the Navy during waste movements is provided under this activity to coordinate onsite organizations and offsite contractors for the safe and efficient off-loading and transport of these large waste packages for disposal at their final destination.

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.1
<b>4 WBS ELEMENT CODE</b> 1.2.1.1	<b>5 WBS ELEMENT TITLE</b> Canister Storage Building Operations	
<b>6 INDEX LINE NO.</b> 1A1C	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel and bargaining unit personnel from various disciplines. This activity is for the operation and maintenance, beginning in FY2001, of the 212-H Canister Storage Building (CSB) after the design, construction, and placement of fuel in the CSB by SNF and the hot conditioning process of the spent nuclear fuel. The new structure is designed to safely store about 2100 metric tons of irradiated metallic uranium fuel for about 40 years, or until the fuel is sent to a repository or otherwise dispositioned. This fuel is currently stored in the K Basins, but the basins have exceeded their design lives, and the fuel is deteriorating due to corrosion. The CSB is a reinforced concrete vault structure with about 220 tubes designed to hold containers (referred to as Multi-Canister Overpacks - MCOs) of K Basin spent nuclear fuel, with the tubes providing secondary containment of the radioactive fuel at Hanford.

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<b>1 PROJECT TITLE/PARTICIPANT</b>  Solid Waste Program	<b>2 DATE</b>  08/31/96	<b>3 IDENTIFICATION NO.</b>  3.7.3.1
<b>4 WBS ELEMENT CODE</b>  1.2.1.1		<b>5 WBS ELEMENT TITLE</b>  Product Line Management and Training
<b>6 INDEX LINE NO.</b>  1A1M	<b>7 REVISION NO. AND AUTHORIZATION</b>  N/A	<b>8 DATE</b>  N/A
<b>9 APPROVED CHANGES</b>  N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b>  N/A	<b>11 BUDGET AND REPORTING NUMBER</b>  EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel and bargaining unit personnel from various disciplines. Also included is tuition costs for training, contract costs for records management activities, and costs associated with the patrol allocation. This element consists of Management/Training activities as follows:

- Management activities
- Training activities
- Records Management
- Budget/schedule activities
- QA activities
- Patrol Allocation



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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.3
4 WBS ELEMENT CODE 1.2.1.2.1	5 WBS ELEMENT TITLE Project Integration	
6 INDEX LINE NO. 1A41	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines. Also included is computer training, hardware and software, and general office supplies. This activity provides project management for financial support and scheduling for the Waste Receiving and Processing (WRAP) 1 including the following activities: baseline management, change control administration, Site Management System implementation, project management plans, document control and records management, project engineering support and the development/maintenance of integrated schedules. Interface with Solid Waste Programs, review activity data sheets, and support five year planning. Also provides management of Architect/Engineer, and construction manager. Will provide validation review packages, Energy System Acquisition review support, Independent Cost Estimate support, and the associated reporting to U.S. Department of Energy, Richland Operations Office/U.S. Department of Energy Headquarters.

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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.3
4 WBS ELEMENT CODE 1.2.1.2.3		5 WBS ELEMENT TITLE Project Startup
6 INDEX LINE NO. 1A43	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines. Also included is travel, material, and equipment required for project startup. This activity provides operational preparedness and startup planning associated with the total project cost for the Waste Receiving and Processing 1. Prepare operational test procedures and operational readiness review documents. Will provide management review and engineering support to review project documents and responding information requests. Provide expertise to review the adequacy of vendor design and concepts from a facility operations feasibility perspective. Support planning and integration efforts including support permitting activities.

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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.3
4 WBS ELEMENT CODE 1.2.1.2.6	5 WBS ELEMENT TITLE Environmental Safety and QA	
6 INDEX LINE NO. 1A46	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel from various disciplines. Also included is PO contracts, travel, training, and general office supplies. This activity provides management review and engineering support to include review of project documents and responding to information requests. Will provide for completion of Final Safety Analysis Report (FSAR) for WRAP. Will provide update to Quality Assurance Project Plan.

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1 PROJECT TITLE/PARTICIPANT Solid Waste Program	2 DATE 08/31/96	3 IDENTIFICATION NO. 3.7.3.3
4 WBS ELEMENT CODE 1.2.1.2.7	5 WBS ELEMENT TITLE WRAP 1 Operations and CENRTC	
6 INDEX LINE NO. 1A47	7 REVISION NO. AND AUTHORIZATION N/A	8 DATE N/A
9 APPROVED CHANGES N/A		
10 SYSTEM DESIGN DESCRIPTION N/A	11 BUDGET AND REPORTING NUMBER EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains administrative labor and technical personnel and bargaining unit personnel from various disciplines. Also included is training, travel, network access, relocation, site telephone, computer hardware and software, and general office supplies. This activity provides support for commencing the Waste Receiving and Processing 1 Operations on or before March 31, 1997, to meet Hanford Federal Facility Agreement and Consent Order Milestone M-18-00. The activities include preparation of emergency response plans; development of waste acceptance, sampling, and batching plans; development of operating, maintenance, emergency and administrative procedures; development of waste minimization and handling plans; and technical support for permit and Final Safety Analysis Report development. This includes CENRTC funding for FY1997/1998 to acquire facility spares. This activity also covers coding the DMS software and software testing.

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.6
<b>4 WBS ELEMENT CODE</b> 1.2.1.7	<b>5 WBS ELEMENT TITLE</b> Contaminated Equipment Processing	
<b>6 INDEX LINE NO.</b> 1A31	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines to support 221-T Facility product processing, maintenance activities, environmental permitting, waste minimization/ALARA, and site non-compliance response activities. Also included are the facility assessments for the year.

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Canyon processing includes processing of high dose rate waste and contaminated equipment in accordance with the Hanford Site Solid Waste Acceptance Criteria, WHC-EP-0063-4, for disposal, re-use, or free release. The 221-T canyon processing activities include:

- Provide support for required permits.
- Support plant modifications necessary for product processing in 221-T.
- Identify and purchase equipment required for size reduction and decontamination.
- Provide waste stream forecasting.
- Utilize a variety of decontamination techniques to reduce the volume of the contaminated component of the waste.
- Reduce the size of large pieces of waste and equipment to fit in burial containers.
- Package waste for burial.
- Decontaminate, repair, and return to service reusable failed equipment.
- The equipment to be processed will consist of Tank Farms augers and contaminated equipment stored in the T Plant canyon. In addition, other high dose rate contaminated equipment and waste being stored at site facilities undergoing decommissioning and generated during the site cleanup will be treated. Treatment of high dose rate waste and equipment will take place in the 221-T canyon.
- Perform decontamination on equipment and debris utilizing CO<sub>2</sub> decontamination equipment and methods.

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.6
<b>4 WBS ELEMENT CODE</b> 1.2.1.7	<b>5 WBS ELEMENT TITLE</b> Waste Verification, Repackaging, and Decon	
<b>6 INDEX LINE NO.</b> 1A32	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines to support 2706-T Facility by maintaining compliant conditions, product processing, maintenance activities, SAR upgrades and ISB, environmental permitting, waste minimization/ALARA, site non-compliance response activities, upgrade projects and cost account plan management. Also included are the facility assessments for the year.

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Low level processing includes 2706-T hot standby activities and 2706-T product processing activities.

The hot standby work will provide safe, monitored storage for contaminated equipment located in the 2706-T facility. This work reflects the minimum scope needed to ensure public safety and environmental protection until contaminated equipment/ materials are removed from 2706-T. The 2706-T hot standby activities include:

- Provide technical support for DOE Order 5480.21 review.
- Inspection, operation, and maintenance of equipment needed to maintain the 2706-T facility in a safe configuration, including radiation monitoring equipment, fire protection and other safety equipment.
- Operation, surveillance, and maintenance of liquid waste handling equipment and ventilation systems.
- Administration and training associated with maintaining a safe, compliant facility.
- Preparation of T Plant SAR, ECNs, PSARs, FSARs.

The 2706-T product processing work will include processing of low dose rate waste and contaminated equipment in accordance with the Hanford Site Solid Waste Acceptance Criteria, WHC-EP-0063-4, for disposal, re-use, or free release per 10CFR835. The 2706-T product processing activities will include:

- Provide support for required permits.
- Support 2706-T plant modifications necessary for product processing.
- Identify and purchase equipment required for size reduction and decontamination.
- Provide waste stream forecasting.
- Utilize a variety of decontamination techniques to reduce the volume of the contaminated component of the waste. Reduce the size of large pieces of waste and equipment to fit in burial containers.
- Package waste for burial.
- Decontaminate, repair, and return to service reusable failed equipment.
- The equipment to be processed will consist of customers cranes, vehicles, rail cars, trucks, and tools. In addition, other facility services include the sampling, inspection of



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low level waste and radioactive mixed waste/equipment, inventory/verification of constituents and repackaging for disposal.

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<b>1 PROJECT TITLE/PARTICIPANT</b>  Solid Waste Program	<b>2 DATE</b>  08/31/96	<b>3 IDENTIFICATION NO.</b>  3.7.3.6
<b>4 WBS ELEMENT CODE</b>  1.2.1.7	<b>5 WBS ELEMENT TITLE</b>  SNF and Contaminated Equipment Storage	
<b>6 INDEX LINE NO.</b>  1A33	<b>7 REVISION NO. AND AUTHORIZATION</b>  N/A	<b>8 DATE</b>  N/A
<b>9 APPROVED CHANGES</b>  N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b>  N/A	<b>11 BUDGET AND REPORTING NUMBER</b>  EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines to support 221-T/271-T Facility cold standby, hot standby, and PWR pool storage and maintenance of PWR pool equipment, by maintaining compliant conditions, maintenance activities, SAR upgrades and ISB, environmental permitting, waste minimization/ALARA, site non compliance response activities, upgrade projects and cost account plan management. Also included are the facility assessments for the year.

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Contaminated equipment storage includes 221-T/271-T cold standby activities, hot standby activities, and PWR pool storage and maintenance of PWR pool equipment.

The 221-T cold standby work and the hot standby work will include providing safe, monitored storage for contaminated equipment located in the 221-T facility. This activity reflects the minimum scope needed to ensure public safety and environmental protection until contaminated equipment and materials are removed from 221-T. This scope includes Project C-157, Electrical Upgrades.

The PWR pool work includes the storage of 72 spent fuel elements, and one non-irradiated element at T Plant in accordance with the latest revision of WHC-SD-CP-SAR-007, "T Plant Safety Analysis Report". Also included is the storage of the pieces of contaminated equipment shown on figure 1 of the "T Plant Canyon Towers Work Plan", SW-PE-94-001 (April 1994) in accordance with the most recent revision of WHC-SD-CP-SAR-007. This activity reflects the minimum scope needed to ensure public safety and environmental protection until Spent Nuclear Fuels and all contaminated equipment and materials are removed from T Plant.

The contaminated equipment storage activities include:

- Provide technical support for DOE Order reviews.
- Inspection, operation, and maintenance of equipment needed to maintain the 221-T facility and the PWE pool in a safe configuration, including radiation monitoring equipment, fire protection and other safety equipment.
- Operation, surveillance, and maintenance of liquid waste handling equipment and ventilation systems.
- Administration and training associated with maintaining a safe, compliant facility.
- Preparation of T Plant SAR, ECNs, PSARs, FSARs.
- Support plant modifications necessary for the product line.
- Prepare for steam removal in the facility by replacing all systems that are dependant on steam.
- Support 221-T Canyon transition activities. By TPA agreement, liquid-based decontamination must be removed from the T Plant canyon by the end of FY99. Activities in the account include canyon cleanout, spent fuel removal, decontamination operations relocations and future mission planning.

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<b>1 PROJECT TITLE/PARTICIPANT</b> Solid Waste Program	<b>2 DATE</b> 08/31/96	<b>3 IDENTIFICATION NO.</b> 3.7.3.6
<b>4 WBS ELEMENT CODE</b> 1.2.1.7	<b>5 WBS ELEMENT TITLE</b> LWTC Maintenance and Certification	
<b>6 INDEX LINE NO.</b> 1A34	<b>7 REVISION NO. AND AUTHORIZATION</b> N/A	<b>8 DATE</b> N/A
<b>9 APPROVED CHANGES</b> N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b> N/A	<b>11 BUDGET AND REPORTING NUMBER</b> EW3130020, 35EW31302, 39EW31302	

**Element Description**

This element contains bargaining unit personnel, administrative labor and technical personnel from various disciplines to support railcar maintenance/certification by maintaining compliant conditions, maintenance activities, environmental permitting, waste minimization/ALARA, and site non compliance response activities.

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This activity assures the availability of at least one liquid waste tank car (LWTC) for the transport of liquid waste, generally from T Plant, the 300 area labs, and the 400 area to Tank Farms. The LWTCs also serve as site backup liquid waste transfer for Hanford site facilities currently utilizing hard piping. LWTC services are essential to maintain < 90 day storage requirements for facilities that do not have liquid waste storage permits, and for storage tank liquid level control. Railcar activities include:

- The performance of required corrective and preventive maintenance on the LWTCs.
- Certification of the LWTCs on a regular basis to assure they meet safety requirements as specified in T Plant's Safety Analysis Report (SAR) for continued service.
- The LWTCs now in use (HO-18581, -18582) will be retired as their replacements (HO-10T-3663, -35664) are placed in service.

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<b>1 PROJECT TITLE/PARTICIPANT</b>  Solid Waste Program	<b>2 DATE</b>  08/31/96	<b>3 IDENTIFICATION NO.</b>  3.7.3.2
<b>4 WBS ELEMENT CODE</b>  1.2.1.9.1	<b>5 WBS ELEMENT TITLE</b>  T Plant Secondary Containment/Leak Detection Upgrades, Project W-259	
<b>6 INDEX LINE NO.</b>  AB1	<b>7 REVISION NO. AND AUTHORIZATION</b>  N/A	<b>8 DATE</b>  N/A
<b>9 APPROVED CHANGES</b>  N/A		
<b>10 SYSTEM DESIGN DESCRIPTION</b>  N/A	<b>11 BUDGET AND REPORTING NUMBER</b>  EW3130020, 35EW31302, 39EW31302	

**Element Description**

Provides funding for project design, preparation of engineering documentation, procurement, purchase, and installation of secondary containment and leak detection upgrades.

This line item will provide compliant tank and piping systems for ongoing T Plant maintenance and decontamination operations and meet Hanford Federal Facility Agreement and Consent Order milestone M-32-03 due in FY 1999.

Project W-259 will provide compliant liquid waste collection, storage, and transfer systems for the 2706-T and 2706-TA facilities.

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**W-259 Project Integration**

- Administration-staff & safety meetings, HGET, and Site general training.
- Routine Performance Reports/Schedules-EAC, VAR, Mid-year, Functional Review Schedule Updates, and associated meetings.
- Project Support-manager, secretary, CAM, financial & scheduling, support on upkeep activities for project: contract negotiations, ECN review, change control, and CAP/schedule maintenance.

**Document Control & Records Management**

- Project Plans & Validation-manager, CAM, financial & scheduling, support on: PMP, CPDS, SDRD, validation, ICE review.
- ADS/MYPP Development-manager, CAM, financial & scheduling, support.

**W-259 Environmental, Safety & QA**

- Environmental Oversight-permitting plan, Environmental Permit Application, project document oversight, project close-out & record review.
- Safety Oversight-PSE review, SAR/ISB analysis, SAR revision, project document oversight, project close-out & record review.
- Quality Assurance Oversight-QA Program Plan, project document oversight, project close-out & record review.
- W-259 Design/Construction Support
- Definitive Design Support
- Title III Support
- Construction Support
- ATP Development & Performance Support
- W-259 Project Startup
- OTP Development & Performance
- Procedures Development & Update

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- As-built Drawings Support
- Operator Training
- ORR Activities



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**2.3 Work Breakdown Structure Index and Programmatic Responsibility Assignment Matrix**

<b>Program Element</b>	<b>Activity</b>	<b>Cost Account</b>	<b>Title</b>	<b>Responsible Manager</b>	<b>Responsible Organization</b>
1.2.1.1/A1			<b>Solid Waste</b>		
	A12	1A1201 1A1202 1A1203 1A1204 1A1205 1A1206	RMW Treatment	D.E. McKenney	Solid Waste Programs
	A19	1A1901	Systems Engineering	D.E. McKenney	Solid Waste Programs
	A1A	1A1A01 1A1A03 1A1A06 1A1A07 1A1A08	Program Support	D.E. McKenney	Solid Waste Programs
	A1M	1A1M01 1A1M04	Management and Training - Programs	D.E. McKenney	Solid Waste Programs
	ML2	1ML201	Data Management	D.E. McKenney	Solid Waste Programs
	A13	1A1301 1A1310	TRU Storage	P.L. Hapke	Solid Waste Management
	A14	1A1401 1A1410	RMW/CWC Storage	P.L. Hapke	Solid Waste Management
	A15	1A1501	Hazardous Waste Storage	R.D. Pierce	Generator and Waste Acceptance Services
	A1A	1A1A05	Solid Waste EIS	R.D. Pierce	Generator and Waste Acceptance Services
	A1M	1A1M03	Management and Training - GWAS	R.D. Pierce	Generator and Waste Acceptance Services

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	ML8	1ML801	Hazardous Waste Receipt & Shipping	R.D. Pierce	Generator and Waste Acceptance Services
	A16	1A1601	LLBG	P.L. Hapke	Solid Waste Management
	A17	1A1701	MW Trench Storage	P.L. Hapke	Solid Waste Management
	2A14	2A1471 2A1472	CENRTC	P.L. Hapke	Solid Waste Management
	2A16	2A1671	CENRTC	P.L. Hapke	Solid Waste Management
	2A1M	2A1M72	Management and Training	P.L. Hapke	Solid Waste Management
	5A14	5A1471	Small Projects	P.L. Hapke	Solid Waste Management
	A1A	1A1A02 1A1A04	Program Support	P.L. Hapke	Solid Waste Management
	A1M	1A1M02	Management and Training - Solid Waste	P.L. Hapke	Solid Waste Management
1.2.1.2/A4			<b>WRAP</b>		
	A41	1A4101	Project Integration	S.J. Norton	Solid Waste Management
	A46	1A4601	ES&QA	S.J. Norton	Solid Waste Management
	A47	1A4720 1A4721 1A4722 1A4724 1A4723 1A4725	WRAP Operations/ CENRTC	S.J. Norton	Solid Waste Management
	A4M	1A4M01	Management and Training - WRAP	S.J. Norton	Solid Waste Management
	2A47	2A4720	WRAP 1 CENRTC	S.J. Norton	Solid Waste Management

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1.2.1.7/A3			<b>Waste and Decontamination Services</b>		
	A31	1A3104	Canyon Processing	M.S. Wright	Waste and Decontamination Services
	A32	1A3202 1A3204	Low-Level Processing	M.S. Wright	Waste and Decontamination Services
	A33	1A3301 1A3302 1A3303 1A3305 1A3361 1A3365	Contaminated Equipment Storage, GPP, and CENRTC	M.S. Wright	Waste and Decontamination Services
	A34	1A3402	Rail Car Certification	M.S. Wright	Waste and Decontamination Services
	A3M	1A3M01	Management and Training - T Plant	M.S. Wright	Waste and Decontamination Services
	AB	1AB101	W-259 Project Integration	M.S. Wright	Waste and Decontamination Services
	3AB	3AB166	W-259 Project Construction	M.S. Wright	Waste and Decontamination Services
	4A3	4A3365	FHA Implementation	M.S. Wright	Waste and Decontamination Services
	5A3	5A3271	2706-T Free Release Annex	M.S. Wright	Waste and Decontamination Services
ML			<b>Solid Waste Assessments</b>		
	ML2	1ML201	Data Management	D.E. McKenney	Solid Waste Programs

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114. REV 2

	ML4	1ML402	LLW Disposal	P.L. Hapke	Solid Waste Management
	ML5	1ML501	TRU Receipt	P.L. Hapke	Solid Waste Management
	ML6	1ML603	RMW/CWC Receipt	P.L. Hapke	Solid Waste Management
MD			<b>Hazardous Waste</b>		
	MDD	1MDD0P	Hazardous Waste Shipping and Receiving	R.D. Pierce	Generator and Waste Acceptance Services

Section 3.0  
Schedule Baseline

Rev. No. 1\_Sep\_93  
 Rev. No. 2\_Oct  
 Rev. No. 3\_Sep98  
 Date: 1/26/98  
 Drawn: 01/02/98  
 P. No.: 2052P30

VHC - SOLID WASTE PROGRAM

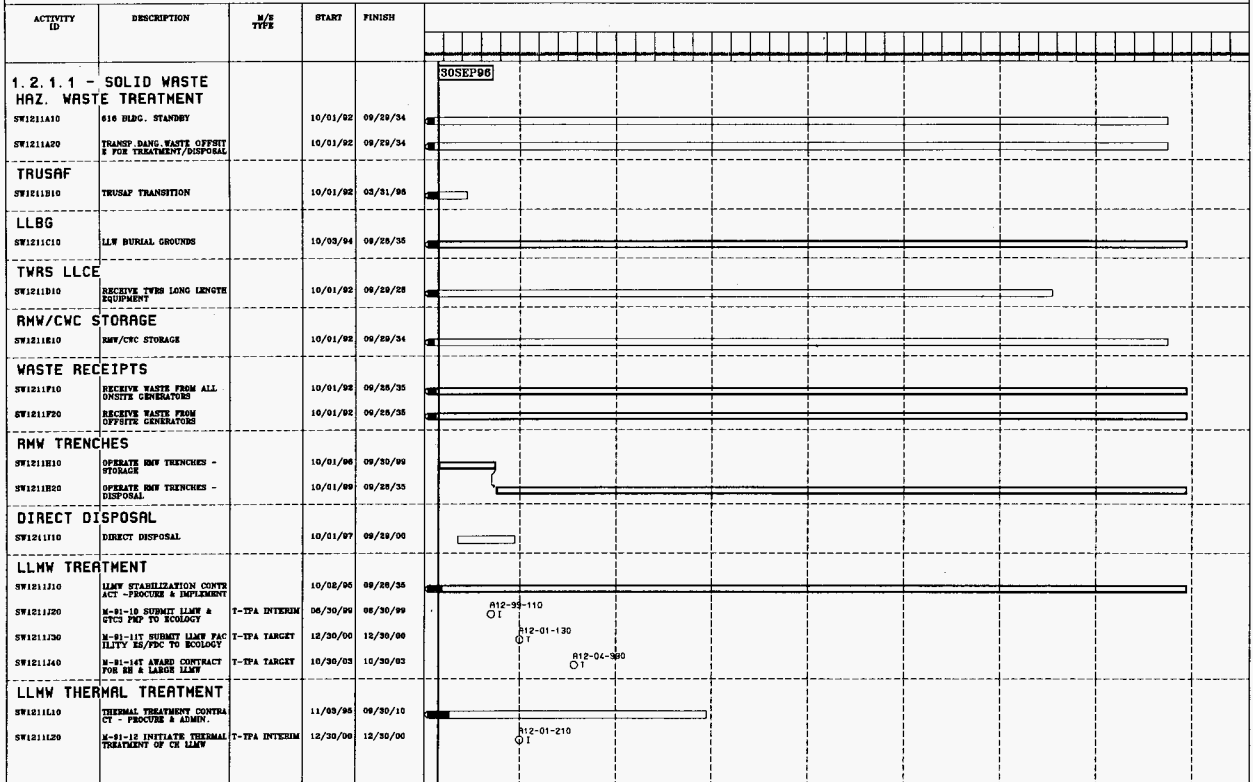
## SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035



F:\ST\MSIS / PMS / 1021PMS/10A's\_4\_Sch14\_93

STRIP 1

**MANAGER: D. McKENNEY 378-1588**  
**SCHEDULER: S. BROWN 378-5879**



DATE: 09/14/93  
 BY: J. J. WILSON  
 TITLE: DIRECTOR  
 NAME: J. J. WILSON  
 ADDRESS:



# SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035

WVC - SOLID WASTE PROGRAM  
 F197-0033 / F000-1027996/1001-1-RLWBS-235  
 STEP 2

MANAGER: D. MCKENNEY 37P-609  
 SCHEDULED BY: B. BRADWIN 37P-6079

ACTIVITY TO	DESCRIPTION	TYPE	START	FINISH
1.2.1.1	SOLID WASTE (CONT.)			
PH TRU TREATMENT				
SWISSING0	M-31-03 SUBMIT TRU/TREN FOR TO BIDDING	T-TPA INTERIM	06/20/06	06/20/06
SWISSING0	M-31-03 SUBMIT TRU/TREN FACILITY RFP/PC TO BIDDING	T-TPA TARGET	12/30/06	12/30/06
SWISSING0	M-31-03 SUBMIT TRU/TREN CONTRACTS FOR M-31-03	T-TPA TARGET	09/20/06	09/20/06
SWISSING0	M-31-03 COM. CONSIDER/PLAN T-TPA OF M-31-03/TPA FAC	T-TPA TARGET	06/20/06	06/20/06
SWISSING0	M-31-03 COM. CONSIDER/PLAN T-TPA OF M-31-03/TPA FAC	T-TPA INTERIM	09/20/06	09/20/06

30SEP96

R12-00-120  
 O  
 R12-03-310  
 O  
 R12-03-300  
 O  
 R12-03-340  
 O  
 R12-05-110  
 O

Part 1  
 State of New York  
 Office of General Services  
 Contract # 18EP00  
 Award # 180270  
 Vendor # 180270



WAC - SOLID WASTE PROGRAM

STEP 3  
 FPP #015 / FMS (274902/000)\_S14L130

# SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035

MANAGER: D. MCKENNEY 379-1689  
 SCHEDULER: E. BROWN 379-8879

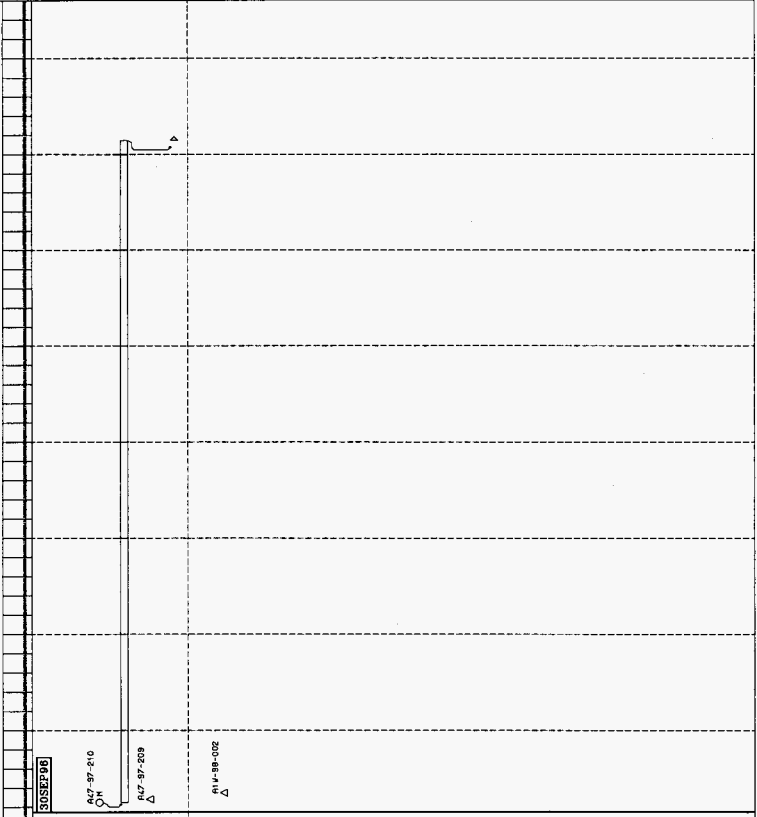
ACTIVITY ID	DESCRIPTION	WBS TYPE	START	FINISH
1.2.1.2 - WRAP MODULE 1				
WRAP 1 OPERATIONS				
07121000	W-18-99 INITIATE WRAP 1	W-TRA MAJOR	09/21/97	09/21/97
07121000	WRAP 1 OPERATION		09/21/97	09/29/97
07121000	INITIATE 18/700 LINE OPERATIONS	18-WIC-EXT	09/29/97	09/29/97
07121000	WRAP 1 END OF OPERATIONS	0-Other	09/29/97	09/29/97
WRAP 1 TRU LINE (NOT FULLY FUNDED)				
07121000	START TRU LINE OPS	18-WIC-EXT	10/01/97	10/01/97

00SESEP96

07-97-210

RL7-97-209

01-98-002





1.2.1.5 - TRU WASTE RETRIEVAL - PHASE I  
 W-113 (CR TO BE INITIATED EARLY FY97)

WMC - SOLID WASTE PROGRAM

SOLID WASTE DIVISION - RL WBS 1.2.1  
PROGRAM MASTER BASELINE SCHEDULE  
FY1997 - 2035

TYPE 4



FILE #123 / FMS (123456789) / WBS 1.2.1

MANAGER: D. McKENNEY 375-1699  
SCHEDULER: B. BROWN 375-3279

ACTIVITY ID	DESCRIPTION	M/S TYPE	START	FINISH
1.2.1.5 - TRU WASTE RETRIEVAL - PHASE I W-113 (CR TO BE INITIATED EARLY FY97)				
W1216A10	REVISE DESIGN	R-WIC-KEY	10/01/96	10/01/96
W1216A20	COMPLETE DESIGN	R-WIC-KEY	05/01/96	05/01/96
W1216A30	START CONSTRUCTION	R-WIC-KEY	09/01/96	09/01/96
W1216A40	COMPLETE TRU WASTE RETRIEVAL CONSTRUCTION	R-WIC-KEY	09/01/96	12/30/96
W1216A50	M-91-CA COMP. CONST. OF CR TRU/TRM RETRIEVAL FACIL.	T-CPA INTERIM	12/31/00	12/31/00
W1216A60	ISSUE PLAN	R-WIC-KEY	09/29/91	09/29/91
W1216A70	INITIAL RETRIEVAL OPERATIONS	R-WIC-KEY	09/29/91	09/29/91
W1216A80	PHASE I RETRIEVAL OPERATIONS	R-WIC-KEY	10/01/91	09/29/94
W1216A90	COMPLETE TRU WASTE RETRIEVAL CONSTRUCTION	T-CPA INTERIM	09/29/94	09/29/94

SUBSEP96

398-SS-P30  
 398-SS-P70  
 398-SS-P90  
 398-01-P40  
 398-01-P10  
 398-01-P20  
 398-01-P30  
 OI

SHEET NO. 101  
 DATE: 08/09/97  
 STATUS: 08/09/97  
 DATE: 10/01/98  
 SHEET: 101  
 PLOT: 101

VHC - SOLID WASTE PROGRAM

## SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035

**MANAGER: D. MCKENNEY 376-1599**  
**SCHEDULER: E. BROWN 376-5879**

ACTIVITY ID	DESCRIPTION	M/S TYPE	START	FINISH	Gantt Chart Area											
<b>1.2.1.6 - NEW FACILITY PLANNING</b>					<b>30SEP98</b>											
<b>ALPHA CAISSON RETRIEVAL</b>																
SW1216A10	ISSUE ENGINEERING STUDY	R-WHC-KEY	09/30/98	09/30/98	198-98-P10											
SW1216A20	ISSUE FDC	R-WHC-KEY	09/30/99	09/30/99	198-99-P20											
SW1216A30	ISSUE CONCEPTUAL DESIGN REPORT	R-WHC-KEY	09/18/01	09/15/01	198-01-P30											
SW1216A40	START DESIGN	R-WHC-KEY	10/01/02	10/01/02	398-03-P50											
SW1216A50	W-156 CAISSON RETRIEVAL - DESIGN	R-WHC-KEY	10/01/02	04/30/03	398-03-P60											
SW1216A60	COMPLETE DESIGN	R-WHC-KEY	09/30/03	09/30/03	398-03-P70											
SW1216A70	START CONSTRUCTION	R-WHC-KEY	10/01/03	10/01/03	398-04-P70											
SW1216A80	W-156 CAISSON RETRIEVAL - CONSTRUCTION	R-WHC-KEY	10/01/03	06/27/05												
SW1216A90	W-156 CAISSON RETRIEVAL - OPERATIONS	R-WHC-KEY	09/28/06	09/28/06												
<b>TRU WASTE RETRIEVAL - PHASE II</b>																
SW1218D10	ISSUE FDC	R-WHC-KEY	08/31/98	08/31/98	198-98-P10											
SW1218D20	ISSUE CONCEPTUAL DESIGN REPORT	R-WHC-KEY	09/18/99	06/15/99	198-99-P20											
SW1218D30	START DESIGN	R-WHC-KEY	10/01/99	10/01/99	398-00-P50											
SW1218D40	W-221 PHASE II RETRIEVAL - DESIGN	R-WHC-KEY	10/01/99	06/29/00	398-00-P60											
SW1218D50	COMPLETE DESIGN	R-WHC-KEY	09/29/00	09/29/00	398-01-P70											
SW1218D60	START CONSTRUCTION	R-WHC-KEY	10/01/00	10/01/00												
SW1218D70	W-221 PHASE II RETRIEVAL - CONSTRUCTION	R-WHC-KEY	10/02/00	09/30/03												
SW1218D80	ISSUE PSAR	R-WHC-KEY	09/30/03	09/30/03	198-03-P80											
SW1218D90	COMPLETE CONSTRUCTION	R-WHC-KEY	09/30/03	06/30/03	398-03-P90											
SW1218D00	INITIATE OPERATIONS	R-WHC-KEY	09/30/05	09/30/05	198-05-P40											
SW1218D10	W-221 PHASE II RETRIEVAL - OPERATIONS	R-WHC-KEY	10/03/05	09/30/16												
SW1218D20	TRANSFER RETRIEVED FUEL TO SUCCESSOR OF KEY	R-WHC-KEY	10/01/15	09/30/16												

Cont. No. 2-Sect. 13  
 Submit. No. ACT  
 Status Code: 000000  
 Date: 18MCP98  
 Start: 01 OCT 98  
 End: 00MCP98

VHC - SOLID WASTE PROGRAM



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## SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035

MANAGER: D. MCKENNEY 378-1589  
 SCHEDULER: B. BROWN 378-8879

ACTIVITY ID	DESCRIPTION	M/E TYPE	START	FINISH												
<b>1.2.1.7 - WASTE &amp; DECON SERVICES</b>					30SEP98											
SW1817A10	LOW DOSE EQUIPMENT DECON/SAMPLING (2708-7)		10/03/94	06/28/18												
SW1817A20	HIGH DOSE EQUIPMENT/WASTE DECONTAMINATION		10/03/94	06/28/18												
<b>SPENT NUCLEAR FUEL</b>																
SW1817D10	SNF REMOVAL - CMT NEW SNF - DSG, BLDG, TEST	R-WHC-KEY	09/30/98	09/30/98	1R3-98-R01 △											
SW1817D20	SNF REMOVAL - COMPLETE OPERATIONAL DOCUMENTATION	R-WHC-KEY	04/30/99	04/30/99	1R3-99-R01 △											
SW1817D30	SNF REMOVAL - INITIATE START-UP ACTIVITIES	R-WHC-KEY	04/30/99	04/30/99	1R3-99-R02 △											
SW1817D40	SNF REMOVAL - COMPLETE START-UP ACTIVITIES	R-WHC-KEY	02/28/00	02/28/00	1R3-00-R01 △											
SW1817D50	SNF REMOVAL - INITIATE REMOVAL	R-WHC-KEY	03/01/00	03/01/00	1R3-00-R02 △											
SW1817D60	TRANSFER SPENT FUEL FROM T-PLANT TO SNF		03/01/00	06/28/00	□											
SW1817D70	SNF REMOVAL - COMPLETE FUEL REMOVAL	R-WHC-KEY	09/30/00	06/30/00	1R3-00-R03 △											

MHC - SOLID WASTE PROGRAM

DATE: 06/01/97  
 DRAWN BY: JSC/PM  
 CHECKED BY: JSC/PM  
 SCALE: 1/1000  
 PLAN: 2002P22



FILED: 7/19/97 10:13 AM '97

SHEET #

# SOLID WASTE DIVISION - RL WBS 1.2.1 PROGRAM MASTER BASELINE SCHEDULE FY1997 - 2035

MANAGER: D. MCKENNEY 375-1088  
 SCHEDULED BY: B. BROWN 375-8878

ACTIVITY ID	DESCRIPTION	M/S TYPE	START	FINISH
1.2.1.9 - T-PLANT SECOND. CONTRIN/LEAK DET.				
W-259				
SP1218A10	COMPLETE W-259 BASELINE FOR PROJECT W-259	E-RL	10/01/96	10/01/96
SP1218A20	INITIATE CONSTRUCTION W-259	E-SL	01/20/97	01/20/97
SP1218A30	W-259 LEAK DETECTION CONSTRUCTION	E-SL	01/21/97	09/20/99
SP1218A40	COMPLETE PUMP	E-SL	04/01/97	04/01/97
SP1218A50	COMPLETE W-259 BASELINE DOCUMENTS	E-WEC-KEY	09/20/96	09/20/96
SP1218A60	COMPLETE W-259 BASELINE DOCUMENTS	E-WEC-KEY	09/20/96	09/20/96
SP1218A70	W-259 COMPLETE W-259 CONSTRUCTION	T-TVA INTERNAL	09/20/96	09/20/96
SP1218A80	COMPLETE W-259 FOR TDU CONSTRUCTION	E-WEC-KEY	09/20/02	09/20/02

**SUBSET 26**

- RL 801-97-001
- RL 801-97-002
- RL 801-97-001
- RL 188-98-RP1
- △ 188-98-RP1
- 308-95-101
- △ 308-01-601

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

MILESTONE LIST			
Milestone Type	Control Number	Milestone Description	Milestone Completion Date
RL	A12-97-015	Complete Mixed Waste Treatment Technology Needs Report (WM 1.7.1)	1/31/97
TPA/RL	A12-97-410	Send Completion of Testing Notice to DOE (backlog soils) (TPA M-19-03)	12/31/96
TPA/RL	A14-97-101	Initiate Operations at New CWC Storage Facility (TPA M-91-09)	6/1/97
RL	A16-97-101	Audits Show No Violation of Basis, PA, WAC (WM 1.6)	9/30/97
RL	A16-97-103	Implement 200 Areas LDBG PA Maintenance Program (WM 1.8)	6/30/97
RL	A1A-97-010	Submit Multi-Year Work Plan to DOE-RL	7/30/97
RL	A1M-97-P10	Submit Site Waste Management Plan to DOE (WM 1.3.1)	9/30/97
RL	A1M-97-P20	Verify Quality Performance in Waste Management to Industry Benchmarks (WM 1.3.2)	6/30/97
RL	A31-97-K01	Process Waste at Less than \$700/ft <sup>3</sup> in the 221-T Facility (WM 1.4.1)	9/30/97
RL	A32-97-K03	Process Waste at Less than \$120/ft <sup>3</sup> in the 2706-T Facility (WM 1.5.1)	9/30/97
TPA/RL	A47-97-210	Initiate WRAP 1 Operations (TPA M-18-00) (WM 1.1.1)	3/31/97
RL	AB1-97-R01	Initiate Construction for Project W-259 (WM 1.2.1)	1/30/97
TPA/RL	A12-99-110	M-91-10 Submit LLMW & GTC3 PMP to Ecology (HAN-CJB-2)	6/30/99

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

MILESTONE LIST			
Milestone Type	Control Number	Milestone Description	Milestone Completion Date
TPA/RL	A12-00-120	M-91-03 Submit TRU/TRUM PMP to Ecology	6/30/00
TPA/RL	A12-01-130	M-91-11T Submit LLMW Facility ES/FDC to Ecology	12/30/00
TPA/RL	A12-01-210	M-91-12 Initiate Thermal Treatment of CH LLMW	12/30/00
TPA/RL	A12-03-910	M-91-05T Submit TRU/TRUM Facility ES/FDC to Ecology	12/30/02
TPA/RL	A12-03-920	M-91-06T Award Contracts for RH TRU/TRUM	9/30/03
TPA/RL	A12-04-930	M-91-14T Award Contracts for RH & Large LLMW	10/30/03
TPA/RL	A12-05-940	M-91-08T Comp. Constr./Start Ops. of RH/TRU/TRUM Facility	6/30/05
TPA/RL	3A8-00-P40*	M-91-04 Comp. Constr. of CH TRU/TRUM Retrieval Facility	9/30/00
TPA/RL	3A8-04-P50	M-91-07 Comp. W-113 for Post 1970 CH TRU/TRUM Retrieval	9/30/04

\* Project W-113 planning does not reflect TPA M-91-04. A change request will be initiated in FY1997 to adjust outyear schedules and budget to meet the TPA M-91 milestones.

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Complete Mixed Waste Treatment Technology Needs Report (WM 1.7.1)			Date: 8/31/96
Assigned To: D.E. McKenney			CIN: N/A
Program WBS Designator: 1.2.1.1			Due Date: 1/31/97
Control Number: A12-97-015			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>X Report</li> <li>• Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Complete a report which documents the technologies required to treat and characterize waste in the SWD inventory.			
Description of what constitutes completion of this milestone: Completion of the report.			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

SOLID WASTE PROGRAM  
WBS 1.2.1

**Westinghouse Hanford Company  
MILESTONE DESCRIPTION SHEET**

Title: Send Completion of Testing Notice to DOE (backlog soils)  
Date: 8/31/96

Assigned To: D.E. Mckenney  
CIN: N/A

Program WBS Designator: 1.2.1.1  
Due Date: 12/31/96

Control Number: A12-97-410  
Rev: 0

MILESTONE TYPE:	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>
DIVISION:	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>• DOE</li> <li>• RCRA</li> <li>• X TPA Number M-19-03</li> </ul>
DELIVERABLE:	<ul style="list-style-type: none"> <li>• Report</li> <li>• X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>
ADDRESS TO:	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• X DOE-RL</li> <li>• Other (specify)</li> </ul>

Milestone Description: Complete sampling and analysis of backlog soils.

Description of what constitutes completion of this milestone: Receive lab analysis reports and data validation results.

Cost Account Manager: \_\_\_\_\_ Date: \_\_\_\_\_  
Program/Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Program Element Manager: \_\_\_\_\_ Date: \_\_\_\_\_  
DOE Monitor: \_\_\_\_\_ Date: \_\_\_\_\_



**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Initiate Operations at New CWC Storage Facility			Date: 8/31/96
Assigned To: P.L. Hapke			CIN: N/A
Program WBS Designator: RL 1.2.1.1			Due Date: 6/01/97
Control Number: A14-97-101			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• DOE-RL</li> <li>X DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>• DOE</li> <li>• RCRA</li> <li>X TPA Number M-91-09</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Initiate operations of the new 2404 series CWC storage facilities for long-term storage of waste.			
Description of what constitutes completion of this milestone: Contractor declaration of readiness to receive waste for long-term storage by letter to RL.			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

**Westinghouse Hanford Company  
MILESTONE DESCRIPTION SHEET**

Title: Audits Show No Violation of Basis, PA, WAC (WM 1.6)  
Date: 8/31/96

Assigned To: P.L. Hapke  
CIN: N/A

Program WBS Designator: 1.2.1.1  
Due Date: 9/30/97

Control Number: A16-97-101  
Rev: 0

MILESTONE TYPE:	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>
DIVISION:	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>• DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>
DELIVERABLE:	<ul style="list-style-type: none"> <li>• Report</li> <li>• X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>
ADDRESS TO:	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• X DOE-RL</li> <li>• Other (specify)</li> </ul>

Milestone Description: Maintain and accept waste into the LLBG in accordance with: the authorization basis for the solid waste burial grounds, the Hanford Site Solid Waste Acceptance Criteria (HSWAC), the RCRA permit application and supplemental submittals, and 200 Areas Performance Assessments (when approved).

Description of what constitutes completion of this milestone: Assessments and audits show violations of authorization basis, Performance Assessments, or HSWAC are less than or equal to 95% of FY96 case rates. Acceptance of waste as described by the generator that does not meet the Hanford Site Solid Waste Acceptance Criteria is evidenced by audit and surveillance on waste acceptance implementation and is less than or equal to 95% of FY96 case rates. Operations, maintenance, and waste acceptance are consistent with the LLEBG RCRA permit application and supplemental submittals. Findings of noncompliance by DOE or Ecology on the operating record, operations, and procedures and are less than or equal to 95% of FY96 case rates. Violation of authorization basis is defined as a notice of violation with subsequent fine or PAA violation with fine. Contingent upon proper generator classification of waste.

Cost Account Manager: \_\_\_\_\_ Date: \_\_\_\_\_  
Program/Project Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Program Element Manager: \_\_\_\_\_ Date: \_\_\_\_\_  
DOE Monitor: \_\_\_\_\_ Date: \_\_\_\_\_

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Implement 200 Areas LLBG PA Maintenance Program (WM 1.8)			Date: 8/31/96
Assigned To: P.L. Hapke			CIN: N/A
Program WBS Designator: 1.2.1.1			Due Date: 6/30/97
Control Number: A16-97-103			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Establish a maintenance program for the 200 Area LLBG PA in accordance with HQ guidance.			
Description of what constitutes completion of this milestone: DOE-RL approved program plan and procedures to ensure that operations/waste acceptance are in compliance with the PA by June 30, 1997 and PA is kept current thereafter. Confirmation to be sent to DOE-RL by letter.			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Submit Multi-Year Work Plan to DOE-RL			Date: 8/31/96
Assigned To: D.E. McKenney			CIN: N/A
Program WBS Designator: 1.2.1.1			Due Date: 7/30/97
Control Number: A1A-97-010			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>• Letter</li> <li>• Drawings</li> <li>X Other (specify) <u>Document</u></li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
<p><b>Milestone Description:</b> Integrated technical basis, cost estimates, and schedules for work required to achieve Hanford Strategies in a manner to enable timely acceptance and work authorization by DOE.</p>			
<p><b>Description of what constitutes completion of this milestone:</b> This milestone is complete when the MYWP has been formally transmitted to DOE-RL by letter for review.</p>			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET			
Title: Submit Site Waste Management Plan to DOE (WM 1.3.1)		Assigned To: D. E. McKenney	
Date: 8/31/96		CIN: N/A	
Program WBS Designator: 1.2.1.1		Due Date: 9/30/97	
Control Number: A1M-97-P10			
Rev: 0		ADDRESS TO:	
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCHA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>X Report</li> <li>• Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Submit Site Waste Management Plan.			
Description of what constitutes completion of this milestone: Submit Site Waste Management Plan to DOE for approval.			
Cost Account Manager:		Date:	
Program Element Manager		Date:	
DOE Monitor		Date:	

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Verify Quality Performance in Waste Management to Industry Benchmarks (WM1.3.2) Date: 8/31/96		Assigned To: D.E. Mckenney	
Due Date: 6/30/97		Program WBS Designator: 1.2.1.1	
Rev: 0		Control Number: A1M-97-P20	
ADDRESS TO:	DELIVERABLE:	DIVISION:	MILESTONE TYPE:
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>X DOE Federal</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>
Milestone Description: Quality performance is verified against industry benchmarks.			
Description of what constitutes completion of this milestone: Issue letter comparing performance to industry benchmarks.			
Date		Cost Account Manager:	
Date		Program/Project Manager	
Date		Program Element Manager	
Date		DOE Monitor	

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Process Waste at Less than \$700/ft <sup>3</sup> in the 221-T Facility (WM 1.4.1)			Date: 8/31/96
Assigned To: W.S. Ayers			CIN: N/A
Program WBS Designator: 1.2.1.7			Due Date: 9/30/97
Control Number: A31-97-K01			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>• Letter</li> <li>• Drawings</li> <li>X Other (specify)</li> <li><u>SMS PTS Report</u></li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
<p>Milestone Description: Proces waste/equipment for storage, disposal, and/or reuse in the T Plant Canyon for less than \$700 ft<sup>3</sup>. Decontamination is performed in accordance with approved T Plant operating procedures and the "Hanford Site Solid Waste Acceptance Criteria," WHC-EP-0063-4. Final cost will determined at the end of the reporting period, from October 1, 1996 to September 30, 1997. If volume processed is less than planned, the planned volume will be used for calculation. Current calculation assumptions to be used.</p>			
<p>Description of what constitutes completion of this milestone: Completion of this milestone will be documented in the Site Management System Report.</p>			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Process Waste at Less than \$120/ft <sup>3</sup> in the 2706-T Facility (WM 1.5.1)			Date: 8/31/96
Assigned To: W.S. Ayers			CIN: N/A
Program WBS Designator: 1.2.1.7			Due Date: 9/30/97
Control Number: A32-97-K03			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>• Letter</li> <li>• Drawings</li> <li>X Other (specify)</li> <li><u>SMS PTS Report</u></li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
<p><b>Milestone Description:</b> Proces waste/equipment for storage, disposal, and/or reuse in the 2706-T Facility for less than \$120 ft<sup>3</sup>. Decontamination is performed in accordance with approved T Plant operating procedures and the "Hanford Site Solid Waste Acceptance Criteria," WHC-EP-0063-4. Final cost will determined at the end of the reporting period, from October 1, 1996 to September 30, 1997. If volume processed is less than planned, the planned volume will be used for calculation. Current calculation assumptions to be used.</p>			
<p><b>Description of what constitutes completion of this milestone:</b> Completion of this milestone will be documented in the Site Management System Report.</p>			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date



**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Initiate WRAP 1 Operations (WM 1.1.1)			Date: 8/31/96
Assigned To: S. H. Norton			CIN: N/A
Program WBS Designator: 1.2.1.1			Due Date: 3/31/97
Control Number: A47-97-210			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>• DOE-RL</li> <li>X DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>• DOE</li> <li>• RCRA</li> <li>X TPA Number M-18-00</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>• Letter</li> <li>• Drawings</li> <li>X Other (specify) <u>SMS PTS Report</u></li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Initiate NDE/NDA and Waste Receipts at the WRAP 1 Facility.			
Description of what constitutes completion of this milestone: Initiate NDE/NDA of suspect TRU Waste at the WRAP 1 Facility by 3/31/97.			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

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<b>Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET</b>			
Title: Initiate Construction for Project W-259 (WM 1.2.1)			Date: 8/31/96
Assigned To: T. L. Blackford			CIN: N/A
Program WBS Designator: 1.2.1.1			Due Date: 1/30/97
Control Number: AB1-97-R01			Rev: 0
<b>MILESTONE TYPE:</b>	<b>DIVISION:</b>	<b>DELIVERABLE:</b>	<b>ADDRESS TO:</b>
<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• DOE-FO</li> <li>• CONTRACTOR</li> </ul>	<ul style="list-style-type: none"> <li>• State</li> <li>• Federal</li> <li>X DOE</li> <li>• RCRA</li> <li>• TPA Number</li> </ul>	<ul style="list-style-type: none"> <li>• Report</li> <li>X Letter</li> <li>• Drawings</li> <li>• Other (specify)</li> </ul>	<ul style="list-style-type: none"> <li>• DOE-HQ</li> <li>X DOE-RL</li> <li>• Other (specify)</li> </ul>
Milestone Description: Initiate procurement phase of Project W-259 construction.			
Description of what constitutes completion of this milestone: Transmittal of procurement specification to Procurement to initiate procurement process.			
Cost Account Manager:	Date	Program/Project Manager	Date
Program Element Manager	Date	DOE Monitor	Date



**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

**BUDGET AUTHORITY SUMMARY BY YEAR BY ADS**

WHC-SP-1114, REV. 2

(\$000s)

<b>RL WBS #</b>	<b>ADS #</b>	<b>TITLE</b>	<b>FY1997</b>	<b>FY1998</b>	<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>	<b>FY2006</b>	<b>TOTAL</b>
1.2.1.1	2200-0	A1-Solid Waste	28,605.6	46,546.5	55,796.0	64,829.8	78,272.0	97,573.8	102,762.4	96,728.5	107,495.8	102,231.4	780,841.9
1.2.1.2	2220-1	A4-WRAP Module 1	10,705.4										10,705.4
1.2.1.5	2200-2	A8-Waste Retrieval		818.3	18,437.8	13,258.2	4,577.6	6,153.4	6,317.0	6,487.7			56,049.9
1.2.1.6	2250-0	A9-New Facility Planning		1,422.7	4,158.0	3,039.0	16,875.0	32,517.4	26,367.9	31,876.2	26,696.8	31,309.5	174,262.5
1.2.1.7	2320-0	A3-Waste & Decon Srvc.	21,418.8	24,389.8	25,309.4	31,663.0	34,029.4	25,213.4	26,010.7	26,365.6	27,265.4	27,917.1	269,582.5
1.2.1.9	2320-2	AB-T Plant 2nd Cont.	4,770.1	3,485.7	2,616.8								10,872.6
<b>SUMMARY (1) Solid Waste Program</b>			<b>65,500.0</b>	<b>76,663.0</b>	<b>106,318.0</b>	<b>112,790.0</b>	<b>133,754.0</b>	<b>161,458.0</b>	<b>161,458.0</b>	<b>161,458.0</b>	<b>161,458.0</b>	<b>161,458.0</b>	<b>1,302,315.0</b>

(1) Summary Of All Programmatic ADS's And New B/A (See Exhibit 2); Does Not Include Expense Carryover.

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

**BUDGET AUTHORITY BY YEAR BY ADS**

WHC-SP-1114, REV. 2

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(\$000s)

RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL		
1.2.1.1	2200-0	A1-Solid Waste	Expense	28,450.8	44,483.9	53,721.5	61,500.7	75,327.5	94,413.4	89,786.7	93,529.9	104,207.4	98,858.7	754,260.6		
			CENRTC	157.1	1,426.2	1,218.6	1,223.2	1,256.3	1,290.6	1,325.0	1,360.7	1,397.6	1,435.3	12,090.6		
			Line Item													
			GPP	140.7	600.0	1,500.0	1,539.2	1,579.4	1,621.2	1,663.0	1,706.5	1,751.3	1,790.0	1,790.0	13,891.3	
			<b>Subtotal New B/A</b>	28,748.6	46,490.1	56,440.1	64,263.0	78,163.2	97,325.3	102,774.6	96,597.2	107,356.3	102,084.0	102,084.0	780,242.4	
			Expense Carryover (1)	2,334.1												2,334.1
			<b>Total B/A</b>	31,082.7	46,490.1	56,440.1	64,263.0	78,163.2	97,325.3	102,774.6	96,597.2	107,356.3	102,084.0	102,084.0	782,576.5	
1.2.1.2	2220-1	A4-WRAP Module 1	Expense	10,658.7										10,658.7		
			CENRTC	48.0											48.0	
			Line Item													
			GPP													
			<b>Subtotal New B/A</b>	10,706.7												10,706.7
Expense Carryover (1)																
<b>Total B/A</b>	10,706.7												10,706.7			
1.2.1.5	2200-2	A8-Waste Retrieval	Expense		818.3	2,064.7	3,278.2	4,577.6	6,153.4	6,317.0	6,487.7			29,696.8		
			CENRTC				1,633.5								1,633.5	
			Line Item			15,836.6	4,893.1									20,729.7
			GPP													
			<b>Subtotal New B/A</b>		818.3	17,901.3	9,804.7	4,577.6	6,153.4	6,317.0	6,487.7				52,060.0	
			Expense Carryover (1)													
<b>Total B/A</b>		818.3	17,901.3	9,804.7	4,577.6	6,153.4	6,317.0	6,487.7					52,060.0			

SOLID WASTE PROGRAM  
WBS 1.2.1

FY 1997 Program Plan

BUDGET AUTHORITY BY YEAR BY ADS

WHC-SP-1114, REV. 2

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(\$000s)

RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
1.2.1.6	2250-0	A9-New Facility Planning	Expense		1,422.7	4,158.0	2,223.5	2,876.9	3,734.1	2,648.6	2,910.7	4,125.7	6,654.9	30,755.1
			CENRTC					969.2	1,855.6	993.0	1,019.9	1,047.4	2,550.1	8,435.1
			Line Item				4,581.3	13,028.9	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	138,838.1
			GPP											
			<b>Subtotal New B/A</b>		1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,696.8	31,309.5	178,028.3
			Expense Carryover (1)											
			<b>Total B/A</b>		1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,696.8	31,309.5	178,028.3
1.2.1.7	2320-0	A3-Waste & Decon Svc	Expense	19,022.1	21,750.0	22,426.8	23,004.7	22,422.8	24,576.2	25,089.1	25,563.0	26,445.7	27,079.4	237,379.9
			CENRTC		796.0	817.4	839.5	862.2	885.8	909.4	933.9	959.2	985.1	7,988.4
			Line Item				7,920.4	10,853.3						18,773.7
			GPP	2,331.8	1,900.2	1,957.5	152.8							6,342.3
			<b>Subtotal New B/A</b>	21,353.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	270,484.3
			Expense Carryover (1)											
			<b>Total B/A</b>	21,353.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	270,484.3
1.2.1.9	2320-2	AB-T Plant 2nd Cont	Expense	690.8	785.8	717.2								2,193.8
			CENRTC											-
			Line Item	3,999.9	2,700.0	1,899.6								8,599.5
			GPP											
			<b>Subtotal New B/A</b>	4,690.8	3,485.8	2,616.8								10,793.3
			Expense Carryover (1)											
			<b>Total B/A</b>	4,690.8	3,485.8	2,616.8								10,793.3

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

**BUDGET AUTHORITY BY YEAR BY ADS**

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(\$000s)

RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
1.2.1	All Direct	Solid Waste Program	Expense	58,822.4	69,240.7	83,088.2	90,007.1	105,204.7	128,877.1	133,841.5	128,491.3	134,778.8	132,593.0	1,064,944.8
			CENRTC	205.2	2,222.1	2,036.0	3,696.2	3,087.7	4,032.0	3,227.3	3,314.5	3,404.2	4,970.4	30,195.7
			Line Item	3,999.9	2,700.0	17,736.2	17,394.8	23,882.1	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	186,940.9
			GPP	2,472.5	2,500.2	3,457.5	1,692.0	1,579.4	1,621.2	1,663.0	1,706.5	1,751.3	1,790.0	20,233.6
			<b>Subtotal New B/A</b>	65,500.0	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,302,315.0
			Expense Carryover (1)	2,334.1										2,334.1
			<b>Total B/A</b>	67,834.1	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,304,649.1

<b>PROGRAM NEW B/A</b>	65,500.0	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,302,315.0
<b>PROGRAM EXPENSE CARRYOVER</b>	2,334.1												2,334.1
<b>PROGRAM TOTAL B/A</b>	67,834.1	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,304,649.1

(1) Includes Only Expense Carryover Approved By Site Management Board (SMB) Prior To 10/1/96.

SOLID WASTE PROGRAM  
WBS 1.2.1

FY 1997 Program Plan

COST BASELINE BY YEAR BY ADS

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(\$000s)

RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL		
1.2.1.1	2200-0	A1-Solid Waste	Expense	30,784.9	44,463.9	53,721.5	61,500.7	75,327.5	94,413.4	99,786.7	93,529.9	104,207.4	98,858.7	756,594.6		
			CENRTC	297.1	1,426.2	1,218.6	1,223.2	1,256.3	1,290.6	1,325.0	1,360.7	1,397.6	1,435.3	12,230.6		
			Line Item													
			GPP	140.7	600.0	1,500.0	1,539.2	1,579.4	1,621.2	1,663.0	1,706.5	1,751.3	1,790.0	13,891.3		
			<b>Total BCWS/PMB (1)</b>	31,222.7	46,490.1	56,440.1	64,263.1	78,163.2	97,325.2	102,774.6	96,597.2	107,356.3	102,084.0	782,716.5		
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)	450.0												450.0
			<b>Total</b>	31,672.7	46,490.1	56,440.1	64,263.1	78,163.2	97,325.2	102,774.6	96,597.2	107,356.3	102,084.0	783,166.5		
1.2.1.2	2220-1	A4-WRAP Module 1	Expense	10,658.7										10,658.7		
			CENRTC	48.0											48.0	
			Line Item													
			GPP													
			<b>Total BCWS/PMB (1)</b>	10,706.7											10,706.7	
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
Expected Carryover (3)																
<b>Total</b>	10,706.7												10,706.7			
1.2.1.5	2200-2	A8-Waste Retrieval	Expense		818.3	2,064.7	3,278.2	4,577.6	6,153.4	6,317.0	6,487.7			29,696.8		
			CENRTC				1,633.5								1,633.5	
			Line Item			15,836.6	4,893.1								20,729.7	
			GPP													
			<b>Total BCWS/PMB (1)</b>		818.3	17,901.3	9,804.7	4,577.6	6,153.4	6,317.0	6,487.7				52,060.0	
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)													
<b>Total</b>		818.3	17,901.3	9,804.7	4,577.6	6,153.4	6,317.0	6,487.7					52,060.0			



SOLID WASTE PROGRAM  
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COST BASELINE BY YEAR BY ADS

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RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL		
1.2.1.6	2250-0	A9-New Facility Planning	Expense		1,422.7	4,158.0	2,223.5	2,876.9	3,734.1	2,648.6	2,910.7	4,125.7	6,654.9	30,755.1		
			CENRTC					969.2	1,855.6	993.0	1,019.9	1,047.4	2,550.1	8,435.1		
			Line Item				4,581.3	13,028.9	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	138,838.1		
			GPP													
			<b>Total BCWS/PMB (1)</b>		1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,696.8	31,309.5	178,028.3		
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)													
			<b>Total</b>		1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,696.8	31,309.5	178,028.3		
1.2.1.7	2320-0	A3-Waste & Decon Srvc	Expense	19,022.1	21,750.0	22,426.8	23,004.7	22,422.8	24,576.2	25,089.1	25,563.0	26,445.7	27,079.4	237,379.9		
			CENRTC	220.0	796.0	817.4	839.5	862.2	885.8	909.4	933.9	959.2	985.1	8,208.4		
			Line Item				7,920.4	10,853.3							18,773.7	
			GPP	2,931.8	1,900.2	1,957.5	152.8									6,942.3
			<b>Total BCWS/PMB (1)</b>	22,173.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	271,304.3		
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)													
			<b>Total</b>	22,173.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	271,304.3		
1.2.1.9	2320-2	AB-T Plant 2nd Cont	Expense	690.8	785.8	717.2								2,193.8		
			CENRTC													
			Line Item	4,099.9	2,700.0	1,899.6									8,699.5	
			GPP													
			<b>Total BCWS/PMB (1)</b>	4,790.8	3,485.7	2,616.8									10,893.3	
			Mgmt Reserve (2)													
			Line Item Contingency (2)	200.0												200.0
<b>Total</b>	4,990.8	3,485.7	2,616.8										11,093.3			

**SOLID WASTE PROGRAM  
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RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
1.2.1.4	2200-1	A7-Waste Storage & Infrastructure	Line Item	1,148.0										1,148.0
			<b>Total BCWS/PMB (1)</b>	1,148.0										1,148.0
			Line Item Contingency (2)	800.0										800.0
			<b>Total</b>	1,948.0										1,948.0
1.2.1	All Direct	Solid Waste Program	Expense	61,156.5	69,240.6	83,088.3	90,007.1	105,204.7	128,877.1	133,841.5	128,491.3	134,778.8	132,593.0	1,067,278.8
			CENRTC	565.2	2,222.2	2,036.0	3,696.2	3,087.7	4,032.0	3,227.3	3,314.5	3,404.2	4,970.4	30,555.7
			Line Item	5,247.9	2,700.0	17,736.2	17,394.8	23,882.1	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	188,189.0
			GPP	3,072.5	2,500.2	3,457.5	1,692.0	1,579.4	1,821.2	1,663.0	1,706.5	1,751.3	1,790.0	20,833.7
			<b>Total BCWS/PMB (1)</b>	70,042.1	78,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,306,857.1
			Mgmt Reserve (2)											1,000.0
			Line Item Contingency (2)	1,000.0										1,000.0
			Expected Carryover (3)	450.0										450.0
			<b>Total</b>	71,492.1	78,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,308,307.1
1.2.1.11		Solid Waste Haz Analysis Assessment	Expense	258.1										258.1
			<b>Total BCWS/PMB (1)</b>	258.1										258.1
1.2.1.11		Solid Waste 1ML Pool Assessment	Expense	6,775.9										6,775.9
			<b>Total BCWS/PMB (1)</b>	6,775.9										6,775.9
<b>PROGRAM BCWS/PMB</b>				77,076.2	78,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,313,891.2
<b>PROGRAM TOTAL</b>				78,526.2	78,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,315,341.2

- (1) Budgeted Cost of Work Scheduled (BCWS) Equals Performance Measurement Baseline (PMB).
- (2) Management Reserve And Line Item Contingency Held By RL.
- (3) Includes Expected Expense Carryover Requested By Formal Change Control in FY1997.

**SOLID WASTE PROGRAM**  
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**4.2 Basis of Estimate**

The Solid Waste Program, under direction from DOE-RL (ref. Letter No. 96-WPD-007), utilized the Liquid Effluent Programs (LEP) format and process for developing the Solid Waste Program Basis of Estimate (BOE) for Fiscal Year 1997 and outyears. This process used the activity-based cost (ABC) estimating methodology to create technically complete, fully documented, and defensible estimates. All of the BOEs for the Solid Waste Program used the process created by LEP as requested by DOE-RL.

The record copy of the Basis of Estimate for the Solid Waste Program resides with the appropriate Program Activity Engineer located in MO278/200 West Area.

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Direct Funding ("A")**

<b>COCS</b>	<b>Title</b>	<b>FY 1997</b>	<b>FY 1998</b>	<b>FY 1999</b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>
<b>C000</b>	<b>Crafts</b>	<b>38.6</b>	<b>39.8</b>	<b>38.6</b>	<b>37.3</b>	<b>41.3</b>	<b>44.8</b>	<b>45.0</b>	<b>44.9</b>	<b>39.0</b>	<b>42.9</b>
C010	Carpenters	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
C020	Electricians	12.5	12.9	12.9	12.4	13.1	13.0	13.1	13.0	13.0	13.0
C030	Heating Air-Conditioning and Refrig Mechanics (HVAC)	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
C040	Machinists	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C050	Masons	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C060	Millwrights	7.8	8.4	8.1	7.9	8.0	8.0	8.0	8.0	8.0	7.9
C070	Painters	3.0	3.1	2.9	2.8	3.1	3.1	3.1	3.1	3.1	3.1
C080	Plumbers and Pipefitters	3.0	3.2	3.1	3.0	3.0	2.9	2.9	2.9	2.9	2.9
C090	Structural and Metal Workers	2.0	2.5	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8
C100	Vehicle and Mobile Equipment Mechanics	0.9	1.1	1.1	1.1	3.1	7.1	7.1	7.1	1.2	5.1
C110	Welders	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
C120	Other Crafts	7.2	6.7	6.4	6.1	6.8	6.8	6.8	6.8	6.8	6.8
<b>E000</b>	<b>Engineers</b>	<b>130.2</b>	<b>147.5</b>	<b>159.3</b>	<b>161.0</b>	<b>148.0</b>	<b>167.8</b>	<b>168.2</b>	<b>165.5</b>	<b>157.4</b>	<b>161.6</b>
E010	Chemical Engineers	9.9	12.0	12.2	12.3	12.5	12.7	12.7	12.7	12.7	12.7
E020	Civil Engineers	1.2	1.0	0.9	0.6	0.6	0.3	0.3	0.3	0.3	0.3
E040	Electrical Engineers	7.6	6.6	7.3	6.7	6.9	7.7	7.7	7.7	7.7	7.7
E050	Environmental Engineers	14.4	15.6	15.5	15.3	14.0	16.2	16.5	16.3	16.2	16.0
E060	Industrial Engineers	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
E070	Mechanical Engineers	7.9	6.4	6.8	6.1	6.1	6.3	5.9	6.1	6.1	6.1
E080	Nuclear Engineers	3.2	2.7	2.6	3.1	3.4	3.3	3.3	3.3	3.3	3.3
E090	Petroleum/Mining Engineers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E100	Plant Engineers	29.5	32.8	33.6	35.5	30.0	32.7	32.9	32.0	35.5	35.5
E110	Quality Assurance/Control Engineers	3.6	3.4	3.3	3.0	3.1	3.0	3.0	3.0	3.0	3.0
E120	Safety Engineers	11.9	12.4	14.7	14.2	12.5	18.7	19.4	20.3	12.8	14.4
E130	Other Engineers	39.0	53.5	61.3	63.7	58.5	66.6	66.3	63.5	59.5	62.4
E140	Construction Engineers	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E150	Project Engineers	1.8	0.8	0.8	0.3	0.2	0.1	0.1	0.1	0.1	0.1
<b>G000</b>	<b>General Admin, Secretarial &amp; Clerical Support</b>	<b>30.2</b>	<b>29.8</b>	<b>28.3</b>	<b>28.4</b>	<b>27.9</b>	<b>27.9</b>	<b>28.7</b>	<b>27.5</b>	<b>27.9</b>	<b>27.9</b>
G010	Administrative Assistants	1.1	1.1	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
G020	Office Clerks (General)	5.8	5.9	5.5	5.9	6.0	6.0	6.8	5.1	6.0	6.0
G030	Office Clerks (Specialized)	7.4	6.9	6.6	6.1	6.5	6.5	6.5	6.5	6.5	6.5

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Direct Funding ("A")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
G040	Secretaries	15.9	15.9	15.3	15.5	14.6	14.7	14.6	15.1	14.6	14.6
G050	Typist and Word Processors	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
G060	Other General Admin, Secretarial and Clerical Support	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<b>L000</b>	<b>Laborers and General Service Workers</b>	<b>10.1</b>	<b>12.5</b>	<b>11.1</b>	<b>11.0</b>	<b>11.2</b>	<b>11.1</b>	<b>11.0</b>	<b>11.0</b>	<b>11.0</b>	<b>11.0</b>
L010	Firefighters	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
L020	Food Service Workers	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
L030	Janitors and Cleaners	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
L040	Laundry Workers	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
L050	Handlers, Helpers and Laborers (General)	0.2	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
L060	Handlers, Helpers and Laborers (Specialized)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
L070	Light Vehicle Drivers	2.9	5.5	3.8	3.7	3.9	3.8	3.8	3.8	3.8	3.8
L080	Security Guards	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
L090	Other Laborers and General Services Workers	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
<b>M000</b>	<b>Gen Mgrs, Exec, 1st Line Suprv'sr &amp; Prog/Proj Mgrs</b>	<b>46.0</b>	<b>50.9</b>	<b>50.8</b>	<b>49.9</b>	<b>46.2</b>	<b>48.4</b>	<b>48.4</b>	<b>48.4</b>	<b>48.4</b>	<b>48.4</b>
M010	First Line Supervisors	17.4	22.9	23.8	23.7	20.1	22.3	22.3	22.3	22.3	22.3
M020	General Managers and Executives	25.1	24.7	24.4	24.5	24.4	24.4	24.4	24.4	24.4	24.4
M030	Project and Program Managers	3.4	3.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
M040	Other Managers	0.1	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>P000</b>	<b>Professional Administrative &amp; Related Occupations</b>	<b>59.7</b>	<b>61.0</b>	<b>60.6</b>	<b>60.3</b>	<b>62.6</b>	<b>63.3</b>	<b>63.6</b>	<b>63.3</b>	<b>63.8</b>	<b>62.6</b>
P010	Accountants and Auditors	10.6	13.0	13.0	12.5	11.4	11.3	12.1	12.0	12.0	11.1
P020	Architects	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P030	Buyers, Procurement and Contracting Specialists	0.12	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
P040	Communications Specialists	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P050	Compliance Inspectors	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
P060	Computer Systems Analysts	2.4	2.3	2.4	2.4	2.4	2.7	2.7	2.7	2.7	2.7
P070	Cost Estimators and Planners and Schedulers	16.5	16.7	16.4	16.5	18.0	18.0	18.1	18.1	18.1	18.0
P080	Health Physicists	7.5	6.7	7.1	6.8	7.8	8.1	7.7	7.4	7.9	7.9
P090	Industrial Hygienists	2.6	2.6	2.4	2.4	2.6	2.6	2.6	2.6	2.6	2.6
P100	Lawyers	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P110	Personnel and Labor Relations Specialists	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P120	Physicians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P130	Physician Assist, Nurses & Oth Medical Supt Occup'tns	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Direct Funding ("A")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
P140	Safeguards and Other Security Specialists	0.4	0.9	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1
P150	Trainers	8.1	7.9	8.1	8.1	8.2	8.2	8.2	8.2	8.2	7.9
P160	Technical Writers, and Editors	1.6	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
P170	Other Administrative & Professional Other Occupations	9.1	8.6	8.0	8.5	9.1	9.1	9.1	9.1	9.1	9.1
<b>R000</b>	<b>Operators</b>	<b>63.1</b>	<b>78.1</b>	<b>85.9</b>	<b>93.3</b>	<b>92.9</b>	<b>127.8</b>	<b>127.8</b>	<b>127.8</b>	<b>98.1</b>	<b>109.9</b>
R010	Chemical System Operators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R020	Drillers	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R030	Material Moving Equipment Operators	3.2	4.4	2.9	5.1	1.2	1.1	1.1	1.1	3.1	3.1
R040	Nuclear Plant Operators	2.0	1.6	1.6	1.5	1.5	1.0	1.0	1.0	1.0	1.0
R050	Nuclear Waste Process Operators	57.9	71.9	79.8	82.7	84.3	107.8	107.8	107.8	92.0	97.8
R060	Production Systems Operators	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R070	Utilities Operators	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R080	Other Operators	0.0	0.0	1.5	4.0	5.9	17.8	17.8	17.8	2.0	7.9
<b>S000</b>	<b>Scientists</b>	<b>14.9</b>	<b>10.1</b>	<b>9.5</b>	<b>10.4</b>	<b>10.4</b>	<b>10.6</b>	<b>10.6</b>	<b>10.6</b>	<b>10.6</b>	<b>10.6</b>
S010	Chemists	2.0	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
S020	Environmental Scientists	5.5	4.3	3.5	3.2	3.2	3.1	3.1	3.1	3.1	3.1
S030	Geologists	1.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
S040	Life Scientists	1.0	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4
S050	Materials Scientists	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S060	Mathematicians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S070	Physicists	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S080	Social Scientists	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S090	Other Scientists	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S100	Computer Scientists	4.5	2.0	2.1	4.0	4.1	4.3	4.3	4.3	4.3	4.3
<b>T000</b>	<b>Technicians</b>	<b>54.2</b>	<b>61.9</b>	<b>64.9</b>	<b>64.5</b>	<b>61.7</b>	<b>76.2</b>	<b>76.8</b>	<b>77.7</b>	<b>72.8</b>	<b>75.7</b>
T010	Computer Operator/Coders	0.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6
T020	Drafters	7.9	7.2	5.9	6.0	6.8	6.8	6.8	6.8	6.8	6.8
T030	Engineering Technicians	1.0	1.0	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3
T040	Environmental Sciences Technicians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T050	Health Physics Technicians	34.7	41.5	44.6	44.9	42.4	54.5	55.0	55.9	51.0	53.9

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Direct Funding ("A")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
T060	Industrial Safety and Health Technicians	0.6	0.8	1.7	1.7	0.1	2.3	2.3	2.3	2.3	2.3
T070	Instrument and Control Technicians	8.2	8.4	8.3	7.8	8.1	8.0	8.1	8.0	8.0	8.0
T080	Laboratory Technicians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T090	Media Technicians	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T100	Survey and Mapping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T110	Other Technicians	0.9	2.6	2.8	2.5	2.8	2.8	2.8	2.8	2.8	2.8
<b>Total</b>		<b>447.1</b>	<b>492.5</b>	<b>509.9</b>	<b>516.0</b>	<b>502.2</b>	<b>577.9</b>	<b>580.2</b>	<b>576.9</b>	<b>529.0</b>	<b>550.5</b>

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("ML")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
<b>C000</b>	<b>Crafts</b>										
C010	Carpenters										
C020	Electricians										
C030	Heating Air-Conditioning and Refrig Mechanics (HVAC)										
C040	Machinists										
C050	Masons										
C060	Millwrights										
C070	Painters										
C080	Plumbers and Pipefitters										
C090	Structural and Metal Workers										
C100	Vehicle and Mobile Equipment Mechanics										
C110	Welders										
C120	Other Crafts										
<b>E000</b>	<b>Engineers</b>	<b>17.9</b>									
E010	Chemical Engineers	0.04									
E020	Civil Engineers	0.03									
E040	Electrical Engineers										
E050	Environmental Engineers	10.3									
E060	Industrial Engineers										
E070	Mechanical Engineers	0.02									
E080	Nuclear Engineers	0.04									
E090	Petroleum/Mining Engineers										
E100	Plant Engineers	2.85									
E110	Quality Assurance/Control Engineers	0.23									
E120	Safety Engineers	0.03									
E130	Other Engineers	4.17									
E140	Construction Engineers	0.22									



**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("ML")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
<b>G000</b>	<b>General Admin, Secretarial &amp; Clerical Support</b>	0.6									
G010	Administrative Assistants										
G020	Office Clerks (General)	0.5									
G030	Office Clerks (Specialized)										
G040	Secretaries	0.1									
G050	Typist and Word Processors										
G060	Other General Admin, Secretarial and Clerical Support										
<b>L000</b>	<b>Laborers and General Service Workers</b>	1.4									
L010	Firefighters										
L020	Food Service Workers										
L030	Janitors and Cleaners										
L040	Laundry Workers										
L050	Handlers, Helpers and Laborers (General)										
L060	Handlers, Helpers and Laborers (Specialized)										
L070	Light Vehicle Drivers	1.4									
L080	Security Guards										
L090	Other Laborers and General Services Workers										
<b>M000</b>	<b>Gen Mgrs, Exec, 1st Line Suprv'sr &amp; Prog/Proj Mgrs</b>	.3									
M010	First Line Supervisors	0.1									
M020	General Managers and Executives										
M030	Project and Program Managers	0.2									
M040	Other Managers										

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("ML")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
<b>P000</b>	<b>Professional Administrative &amp; Related Occupations</b>	<b>7.9</b>									
P010	Accountants and Auditors	0.10									
P020	Architects										
P030	Buyers, Procurement and Contracting Specialists	0.10									
P040	Communications Specialists										
P050	Compliance Inspectors	0.20									
P060	Computer Systems Analysts										
P070	Cost Estimators and Planners and Schedulers	1.45									
P080	Health Physicists	0.33									
P090	Industrial Hygienists	0.65									
P100	Lawyers										
P110	Personnel and Labor Relations Specialists										
P120	Physicians										
P130	Physician Assist, Nurses & Oth Medical Supt Occup'tns										
P140	Safeguards and Other Security Specialists	3.06									
P150	Trainers										
P160	Technical Writers, and Editors										
P170	Other Administrative & Professional Other Occupations	1.97									
<b>R000</b>	<b>Operators</b>	<b>12.5</b>									
R010	Chemical System Operators										
R020	Drillers										
R030	Material Moving Equipment Operators	0.54									
R040	Nuclear Plant Operators										
R050	Nuclear Waste Process Operators	11.93									
R060	Production Systems Operators										
R070	Utilities Operators										
R080	Other Operators										

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("ML")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
S000	Scientists	3.7									
S010	Chemists										
S020	Environmental Scientists	0.81									
S030	Geologists										
S040	Life Scientists	0.85									
S050	Materials Scientists										
S060	Mathematicians										
S070	Physicists										
S080	Social Scientists										
S090	Other Scientists										
S100	Computer Scientists	2.01									
T000	Technicians	10.7									
T010	Computer Operator/Coders	1.11									
T020	Drafters										
T030	Engineering Technicians	2.98									
T040	Environmental Sciences Technicians										
T050	Health Physics Technicians	5.69									
T060	Industrial Safety and Health Technicians										
T070	Instrument and Control Technicians										
T080	Laboratory Technicians										
T090	Media Technicians										
T100	Survey and Mapping										
T110	Other Technicians	0.90									
<b>Total</b>		<b>55</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>	<b>.0</b>

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("MD")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
C000	Crafts										
C010	Carpenters										
C020	Electricians										
C030	Heating Air-Conditioning and Refrig Mechanics (HVAC)										
C040	Machinists										
C050	Masons										
C060	Millwrights										
C070	Painters										
C080	Plumbers and Pipefitters										
C090	Structural and Metal Workers										
C100	Vehicle and Mobile Equipment Mechanics										
C110	Welders										
C120	Other Crafts										
E000	Engineers	1									
E010	Chemical Engineers	0.6									
E020	Civil Engineers										
E040	Electrical Engineers										
E050	Environmental Engineers										
E060	Industrial Engineers										
E070	Mechanical Engineers										
E080	Nuclear Engineers										
E090	Petroleum/Mining Engineers										
E100	Plant Engineers										
E110	Quality Assurance/Control Engineers										
E120	Safety Engineers										
E130	Other Engineers										
E140	Construction Engineers										

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("MD")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
G000	General Admin, Secretarial & Clerical Support										
G010	Administrative Assistants										
G020	Office Clerks (General)										
G030	Office Clerks (Specialized)										
G040	Secretaries										
G050	Typist and Word Processors										
G060	Other General Admin, Secretarial and Clerical Support										
L000	Laborers and General Service Workers										
L010	Firefighters										
L020	Food Service Workers										
L030	Janitors and Cleaners										
L040	Laundry Workers										
L050	Handlers, Helpers and Laborers (General)										
L060	Handlers, Helpers and Laborers (Specialized)										
L070	Light Vehicle Drivers										
L080	Security Guards										
L090	Other Laborers and General Services Workers										
M000	Gen Mgrs, Exec, 1st Line Suprv'sr & Prog/Proj Mgrs										
M010	First Line Supervisors										
M020	General Managers and Executives										
M030	Project and Program Managers										
M040	Other Managers										

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("MD")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
P000	Professional Administrative & Related Occupations	2									
P010	Accountants and Auditors										
P020	Architects										
P030	Buyers, Procurement and Contracting Specialists										
P040	Communications Specialists										
P050	Compliance Inspectors										
P060	Computer Systems Analysts										
P070	Cost Estimators and Planners and Schedulers										
P080	Health Physicists										
P090	Industrial Hygienists										
P100	Lawyers										
P110	Personnel and Labor Relations Specialists										
P120	Physicians										
P130	Physician Assist, Nurses & Oth Medical Supt Occup'tns										
P140	Safeguards and Other Security Specialists		1.7								
P150	Trainers										
P160	Technical Writers, and Editors										
P170	Other Administrative & Professional Other Occupations										
R000	Operators										
R010	Chemical System Operators										
R020	Drillers										
R030	Material Moving Equipment Operators										
R040	Nuclear Plant Operators										
R050	Nuclear Waste Process Operators										
R030	Production Systems Operators										
R070	Utilities Operators										
R080	Other Operators										

**Exhibit: Program Average FTE Projections by COCS Categories**  
**Program WBS/Title: 1.2.1 SOLID WASTE PROGRAM Indirect Funding ("MD")**

COCS	Title	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
S000	Scientists	1									
S010	Chemists	0.1									
S020	Environmental Scientists	0.4									
S030	Geologists										
S040	Life Scientists										
S050	Materials Scientists										
S060	Mathematicians										
S070	Physicists										
S080	Social Scientists										
S090	Other Scientists										
S100	Computer Scientists										
T000	Technicians										
T010	Computer Operator/Coders										
T020	Drafters										
T030	Engineering Technicians										
T040	Environmental Sciences Technicians										
T050	Health Physics Technicians										
T060	Industrial Safety and Health Technicians										
T070	Instrument and Control Technicians										
T080	Laboratory Technicians										
T090	Media Technicians										
T100	Survey and Mapping										
T110	Other Technicians										
<b>Total</b>		<b>2.8</b>									

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114, REV. 2

<b>PROJECT WORK SCOPE MAPPING</b>			
<b>- FY 1996 to FY 1997 -</b>			
<b>Work Scope Title</b>	<b>(1) Identifiers</b>		<b>(2) Comment</b>
	<b>FY 1996</b>	<b>FY 1997</b>	
Product Line Management and Training	Included in most direct activities	1A1M01, 1A1M04, 1A1M02, 1A1M03, 1A3M01,	Management accounts previously spread across all cost accounts in FY96. Consolidated in FY97 for activity management and ABC methodology.
SWITS	1A1901	1A1A07	Workscope removed from the Systems Eng. cost account to a new cost account titled Data Management.
Safety and Health	overhead	1A1A08	Safety and Health activities projectized.
Master SAR	1A1301, 1A1401, 1A1601, 1A3302, 1A3202, 1A3402	1A1A04	SAR accounts previously spread across many cost accounts in FY96. Consolidated in FY97 for activity management and ABC methodology.
DOE Walk-in Work	1A1A0107	1A1A06	In FY96, activity was a work package. In FY97, activity was made a unique cost account.
Patrol	overhead	1A1M04	Patrol costs allocated in the SWS overhead pool in FY96. In FY97, patrol costs will be allocated as a direct charge to the programs.



**PROJECT WORK SCOPE MAPPING**

- FY 1996 to FY 1997 -

Work Scope Title		(1) Identifiers		(2) Comment
		FY 1996	FY 1997	
T Plant Routine Maintenance	1A3104, 1A3302, 1A3303, 1A3302	1A3301	Changed definition of cold standby.	
T Plant Corrective Maintenance	1A3104, 1A3204, 1A3301, 1A3303	1A3202, 1A3302	Changed definition of hot standby.	
W-112 Project	ADS 2200-1	Deleted	Project completed.	
MW Treatment	1A1201	1A1201, 1A1202, 1A1203, 1A1204, 1A1205, 1A1206, 1A1207, 1A1208	FY1996 workpackages converted to cost accounts in FY1997 for activity management and ABC methodology.	
SWTS, Waste Acceptance Criteria, Data Calls	1A1901, 1A1A01	1A1A07	Activities were consolidated into a unique cost account in FY1997.	
MW Treatment	1A1201	1A1201, 1A1202, 1A1203, 1A1204, 1A1205, 1A1206, 1A1207	The workpackages for 1A1201 in FY1996 were made into cost accounts in FY1997 for enhanced management visibility.	

**FY 1997 MYWP TRANSITION CROSSWALK**  
**FY 1996 BASELINE SUMMARY REPORT**  
 Schedule 1  
 (\$ in Millions)

**Program: Solid Waste**

Baseline Analysis	1996	1997	1998	1999	TOTAL
(1) Beginning Baseline - FY 1996 MYPP (9/26/95)	79.0	58.5	51.2	51.2	239.9
(2) FY 1996 Reported Savings (Schedule 2A and 2B)					
(2.1) Deleted Workslope (includes pending items)	(21.0)	(2.0)			(23.0)
(2.2) Efficiencies	0.0	0.0	0.0	0.0	0.0
(3) FY 1996 Other C/R Activity (Schedule 2A and 2B)					
(3.1) Workslope Deferrals	(0.5)	0.0	0.0	0.0	(0.5)
(3.2) Workslope Transfers	0.0	0.0	0.0	0.0	0.0
(3.3) Workslope Additions - Accelerated	0.0	0.0	0.0	0.0	0.0
(3.4) Workslope Additions - New (includes pending items)	9.4	4.3	0.0	0.5	14.3
(4) Prior Year Carryover Workslope	4.4	0.0	0.0	0.0	4.4
(5) FY 1996 MYPP Net of FY 1996 CR Actions	71.3	60.8	51.2	51.7	235.0
(6) FY 1997 Baseline Planning Actions (Schedule 3)					
6.1 Deleted Workslope	0.0	(11.8)	(7.0)	(8.6)	(27.4)
6.2 Workslope Deferrals	0.0	0.0	0.0	0.0	0.0
6.3 Workslope Additions - Accelerated	0.0	1.0	0.0	0.0	1.0
6.4 Workslope Additions - New	0.0	15.5	32.5	63.2	111.2
6.5 Workslope Transfers	0.0	0.0	0.0	0.0	0.0
Total 1997 Planning Actions	0.0	4.7	25.5	54.6	84.8
(7) FY 1997 Approved MYWP Baseline	71.3	65.5	76.7	106.3	319.8
FY 1997 MYWP GUIDANCE from RL		*65.5	76.7	106.3	
* Pending resolution of Security and Patrol funding					

**FY 1997 MYWP TRIMMING CROSSWALK**  
 Schedule 2B Pending Change Requests  
 (\$ in Millions)

Program: **Solid Waste**

**FY 1996 Reported Savings**

C/R NUMBER	DESCRIPTION	SAVINGS TYPE	FY 1996 Reported Savings					
			1996	1997	1998	1999	TOTAL	
SWD-96-053R2	Approve Work Scope for Project W-485 and W-486	Deletion - GPPs	(0.3)					(0.3)
SWD-96-062	Power Swivel Hook Procurement Funding Change	Deletion	(0.1)					(0.1)
SWD-96-067	Support to TWRS Unfunded Work Scope	Deletion - Expense	(1.0)					(1.0)
SWD-96-067	Support to TWRS Unfunded Work Scope	Deletion - Expense	(0.1)					(0.1)
SWD-96-068	Transfer Funds from DOE Walk-in Support	Deletion	(0.1)					(0.1)
		Deletion	0.0					0.0
		<b>Sub Total Deletions</b>	<b>(1.5)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>(1.5)</b>
		Deferral	0.0					0.0
		Deferral	0.0					0.0
		<b>Sub Total Deferrals</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
		Transfer	0.0					0.0
		Transfer	0.0					0.0
		<b>Sub Total Transfers</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
		Addition-Accelerated						0.0
		Addition-Accelerated						0.0
		<b>Sub Total Accelerated</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
SWD-96-053R2	Approve Work Scope for Project W-485 and W-486	Addition-New - Small Projects	0.3					0.3
SWD-96-XXX	C-170 dollars from FY 1995	Addition-New	1.027					1.027
SWD-96-XXX	FY 1996 PBFs	Addition-New	1.658					1.658
SWD-96-XXX	Security patrol	Addition-New		1.015				1.015
SWD-96-XXX		Addition-New						0.000
		Addition-New						0.0
		<b>Sub Total New</b>	<b>3.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>4.0</b>

**Savings Actions**

ROF Activity	Efficiency	0.0
Discretionary Savings/Underruns	Efficiency	0.0
	<b>Sub Total Efficiency</b>	<b>0.0</b>

**C/R Number**

**Narrative of Major Savings by Change Request**

SWD  
SWD-96-053R2

Deletion of 2 GPPs in support of 3 new small projects.

**FY 1997 MYWP TRIMMING POSITION CROSSWALK**  
**Schedule 2B Penalties and Change Requests**  
**(\$ in Millions)**

SWD  
SWD-96-062

Defer procurement and change funding type from CENRTC FY96 to expense FY97 for power swivel hook.

SWD-96-067  
(Expense and Capital)

Reduction in FY96 scope associated with EIS contract and LLBG upgrades.

SWD-96-068

Delete BCWS from walk-in work in support of RL activities.

**FY 1997 MYWP TR ITION CROSSWALK**  
**Schedule 2A Approved Change Requests**  
 (\$ in Millions)

Program: Solid Waste

FY 1996 Reported Savings

C/R NUMBER	DESCRIPTION	SAVINGS TYPE	FY 1996 Reported Savings				
			1996	1997	1998	1999	TOTAL
SWD-96-002	Equipment Storage Buildings	Deletion - CENRTC	(0.280)				(0.280)
SWD-96-004R1	Changes to Solid Waste Program FY1996 MYPP (Carryover)	Deletion	(2.405)	(2.000)			(4.405)
SWD-96-005	Improvements in Waste Forecasting	Deletion	(0.124)				(0.124)
SWD-96-006	Create FY96 Womens's Change Trailer	Deletion	(0.120)				(0.120)
SWD-96-008	Transfer Funds to the Asbestos Abatement Portion of W-147	Deletion - DOE Walk-in	(0.147)				(0.147)
SWD-96-010	Radioactive Mixed Waste Characterization Project	Deletion - DOE Walk-in	(0.023)				(0.023)
SWD-96-011	New Railcar Mobilization	Deletion - DOE Walk-in	(0.123)				(0.123)
SWD-96-016	616 Facility Standby Mode	Deletion	(0.303)				(0.303)
SWD-96-019	CENRTC Closures and Funding Reallocation	Deletion	(0.114)				(0.114)
SWD-96-020	ML Fee Elimination	Deletion	(1.000)				(1.000)
SWD-96-023	Closeout and Transfer of WRAP 2A CENRTC Funds	Deletion	(0.120)				(0.120)
SWD-96-033	Redirection of FY96 Fee for New Worksopce	Deletion	(2.549)				(2.549)
SWD-96-035	Solid Waste Program Rebaseline Update	Deletion - Expense	(4.359)				(4.359)
SWD-96-035	Solid Waste Program Rebaseline Update	Deletion - Capital	(7.867)				(7.867)
		Deletion					0.000
		<b>Sub Total Deletions</b>	<b>(19.533)</b>	<b>(2.000)</b>	<b>0.000</b>	<b>0.000</b>	<b>(21.533)</b>
SWD-96-008	Transfer Funds to the Asbestos Abatement Portion of W-147	Deferral-vent duct study	(0.528)				(0.528)
		Deferral					
		<b>Sub Total Deferrals</b>	<b>(0.528)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>(0.528)</b>
	None	Transfer					
		<b>Sub Total Transfers</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
		<b>Addition-Accelerated</b>					<b>0.000</b>
		<b>Addition-Accelerated</b>					<b>0.000</b>
		<b>Sub Total Accelerated</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
SWD-96-002	Equipment Storage Buildings	Addition-New - Small Projects	0.280				0.280
SWD-96-004R1	Changes to Solid Waste Program FY1996	Addition-New	0.509				0.509
SWD-96-006	Create FY96 Womens's Change Trailer	Addition-New	0.120				0.120
SWD-96-008	Transfer Funds to the Asbestos Abatement Portion of W-147	Addition-New-abatement	0.675				0.675
SWD-96-010	Radioactive Mixed Waste Characterization	Addition-New - Small Projects	0.023				0.023
SWD-96-011	New Railcar Mobilization	Addition-New	0.123				0.123
SWD-96-019	CENRTC Closures and Funding Reallocation	Addition-New	0.114				0.114

**FY 1997 MYWP TR. ACTION CROSSWALK**  
**Schedule 2A Approved Change Requests**  
 (\$ in Millions)

<b>SWD-96-023</b>	<b>Closeout and Transfer of WRAP 2A CENRTC Funds</b>	<b>Addition-New - Fee Impact</b>	<b>0.120</b>		<b>0.120</b>
<b>SWD-96-033</b>	<b>Redirection of FY96 Fee for New Workslope</b>	<b>Addition-New - Expense</b>	<b>2.326</b>		<b>2.326</b>
<b>SWD-96-033</b>	<b>Redirection of FY96 Fee for New Workslope</b>	<b>Addition-New - CENRTC</b>	<b>0.223</b>		<b>0.223</b>
<b>SWD-96-045</b>	<b>PHMC Contract Transition</b>	<b>Addition-New</b>	<b>0.260</b>		<b>0.260</b>
<b>SWD-96-057</b>	<b>Site Management Board Mid-Year Review</b>	<b>Addition-New</b>	<b>1.642</b>	<b>3.334</b>	<b>4.976</b>
<b>SWD-96-008</b>	<b>Transfer Funds to the Asbestos Abatement Portion of W-147</b>	<b>Addition-New</b>			<b>0.528</b>

<b>Sub Total New</b>	<b>6.414</b>	<b>3.334</b>	<b>0.000</b>	<b>0.528</b>	<b>10.276</b>
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**Savings Actions**

<b>ROF Activity</b>	<b>Efficiency</b>	<b>0.000</b>
<b>Discretionary Savings/Underruns</b>	<b>Efficiency</b>	<b>0.000</b>
	<b>Sub Total Efficiency</b>	<b>0.000</b>

<b>Sub Total Efficiency</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
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**Narrative of Major Savings by Change Request**

**SWD-96-002** CENRTC and Small BCWS/funds from CENRTC to small project. Delete scope associated with equipment purchases in support of new small project scope.

**SWD-96-004R1** Reduce FY95 carryover scope from 20 CAAs to 11 CAAs. Reduce FY97 scope of WRAP. Add scope for DOE support and sanitary water line.

**SWD-96-005** Reduced scope associated with annual solid waste forecasting.

**SWD-96-006** (CENRTC) Change trailer CENRTC account to complete installation. New scope required by DOH.

**SWD-96-008** Defer T Plant vent and duct study and delete DOE walk-in work in support of new asbestos abatement support.

**FY 1997 MYWP TR IATION CROSSWALK**  
**Schedule 2A Approved Change Requests**  
 (\$ in Millions)

SWD-96-010 Delete DOE walk-in work in support of RMW characterization project.

SWD-96-011 Delete DOE walk-in work in support of project to provide instruments for T Plant railcar.

SWD-96-016 (ML8) Reduced operations at 616 Facility.

SWD-96-019 Deletion of scope from 5 CENRTC accounts in support of new scope in 3 separate CENRTC accounts.

SWD-96-020 (ML) Deletion of fee from ML4, ML5, ML6, and ML8 accounts.

SWD-96-023 (CENRTC) Delete procurement of extruder for WRAP 2A. Add BCWS for impacts caused from C-170 fee payment.

SWD-96-033 Deletion of FY96 fee to support new workscope items.

SWD-96-035 (Expense and CENRTC) Reductions to FY96 baseline. Deletion of special case waste project W-272, sodium treatment contract, program management fee, and W-112 storage facilities.

SWD-96-045 New scope in support of transition to new contract.

**FY 1997 MYWP TRAIL BLAZER ACTION CROSSWALK**  
**Schedule 2A Approved Change Requests**  
**(\$ in Millions)**

SWD-96-057

New scope identified for FY96 and FY97 using savings.



**FY 1997 MYWP TRU TION CROSSWALK**  
**FY 1997 BASELINE PLANNING ACTIONS**  
 Schedule 3  
 (\$ in Millions)

Program: Solid Waste

FY 1997 Baseline Planning Actions

	1996	1997	1998	1999	TOTAL
<b>(6.1) Deleted Workscope</b>					
(1) TRUSAF Mortgage Reduction		0.0	(2.1)	(2.9)	(5.0)
(2) CENRTC/Small Projects		(2.5)	(0.8)	(0.9)	(4.2)
(3) Rad Area Reduction (revised scope)		0.0	0.0	(0.4)	(0.4)
(4) Tank Car Certification		(0.2)	(0.2)	(0.2)	(0.6)
(5) Systems Engineering		(1.0)	0.0	0.0	(1.0)
(6) DOE Walk-In Work		(0.9)	(1.0)	(1.1)	(3.0)
(7) SW Fee		(2.0)	(1.6)	(1.6)	(5.2)
(8) Planned efficiencies		(5.2)	(1.3)	(1.5)	(8.0)
<b>Total</b>	<b>0.0</b>	<b>(11.8)</b>	<b>(7.0)</b>	<b>(8.6)</b>	<b>(27.4)</b>
<b>(6.2) Workscope Deferred</b>					
(1)	0.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>(6.3) Workscope Additions - Accelerated</b>					
(1) WRAP TRU Startup		0.6	0.0	0.0	0.6
(2) Project W-259 Expense Support		0.4	0.0	0.0	0.4
<b>Total</b>	<b>0.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.0</b>
<b>(6.4) Workscope Additions - New</b>					
(1) WRAP LLW Processing		0.0	0.1	0.7	0.8
(2) WRAP TRU Processing		0.0	0.4	0.8	1.2
(3) WRAP NDE/NDA		0.0	0.1	0.2	0.3
(4) WRAP Personnel Training		0.0	0.0	0.3	0.3
(5) WRAP Facility Maintenance		0.1	0.0	0.0	0.1
(6) TRUSAF Transition		0.9	1.2	0.0	2.1
(7) CWC High Curie Ops.		0.2	0.1	0.1	0.4
(8) MW Trench Storage		0.6	0.7	0.8	2.1
(9) Leachate Management		0.0	0.0	1.2	1.2
(10) MW Trench Closure Cover Design		0.0	0.5	0.0	0.5
(11) Solid Waste EIS		2.4	0.1	0.0	2.5
(12) CENRTC/Small Projects		0.3	2.3	3.4	6.0
(13) TRU Drum Relocation		0.2	0.0	0.0	0.2
(14) Rad Area Reduction		0.3	0.0	0.0	0.3
(15) Dirt Cover for Filled Trench		0.0	0.9	0.0	0.9
(16) Radcon Path Forward		0.0	0.1	0.1	0.2
(17) Facility Evaluation Board		0.1	0.0	0.0	0.1

**FY 1997 MYWP TRIBUTION CROSSWALK**  
**FY 1997 BASELINE PLANNING ACTIONS**  
**Schedule 3**  
**(\$ in Millions)**

(18) Start-up of Storage Bldgs. (W-112)	0.2	0.0	0.0	0.2	
(19) LLBG Stabilization	0.0	0.3	1.5	1.8	
(20) PHMC Performance Measures	0.1	0.1	0.1	0.3	
(21) Vegetation Management	0.2	0.2	0.2	0.6	
(22) Interim EA for Deep Trench	0.1	0.0	0.0	0.1	
(23) Master SAR (re-estimate)	0.0	0.7	0.7	1.4	
(24) Office Facilities Maintenance	0.3	0.3	0.3	0.9	
(25) CO2 Decon	0.7	0.7	0.7	2.1	
(26) FHA Upgrade	1.1	1.2	0.0	2.3	
(27) Sprung Pad Cover	0.2	0.0	0.0	0.2	
(28) Transfer of Liquid Decon	1.1	0.8	0.0	1.9	
(29) SNF Removal Activities	0.2	0.4	0.3	0.9	
(30) Asset Account	0.0	0.2	0.2	0.4	
(31) Ventilation Upgrade	0.0	0.0	2.0	2.0	
(32) TRU Treatment Preparation	0.0	0.0	0.2	0.2	
(33) Additional High-Dose Decon	0.6	2.4	2.3	5.3	
(34) Additional Low-Dose Decon	1.2	1.8	2.5	5.5	
(35) Vent Duct Study	0.0	0.0	0.5	0.5	
(36) Thermal Treatment	0.6	0.3	1.2	2.1	
(37) MW Stabilization	0.0	1.0	1.0	2.0	
(38) Macroencapsulation	0.0	1.3	1.7	3.0	
(39) Direct Disposal	0.5	0.7	1.5	2.7	
(40) MW Characterization	0.5	1.7	3.3	5.5	
(41) Small/Unique Waste	0.0	0.7	1.6	2.3	
(42) MW Treatment Acceleration	0.0	3.9	7.7	11.6	
(43) Safety/Health	0.1	0.0	0.0	0.1	
(44) Patrol	0.7	0.7	0.7	2.1	
(45) Requirements Management	0.3	0.3	0.2	0.8	
(46) Systems Engineering	0.0	1.0	1.0	2.0	
(47) TRU Retrieval (W-113)	0.0	0.8	17.9	18.7	
(48) TRU Retrieval (W-221)	0.0	0.7	1.8	2.5	
(49) Caisson Retrieval (W-156)	0.0	0.2	0.5	0.7	
(51) Burial Ground Closure	0.0	0.5	1.9	2.4	
(52) Data Management	0.0	0.8	0.9	1.7	
(53) Misc work scopes	0.9	1.5	0.4	2.8	
(54) G&A Increase	0.8	0.8	0.8	2.4	
<b>Total</b>	<b>0.0</b>	<b>15.5</b>	<b>32.5</b>	<b>63.2</b>	<b>111.2</b>

**(6.5) Workscope Transfers**

(1)					0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114. REV 2

## Subcontractor Exhibit

Dollars in Thousands

Project Hanford Breakdown Structure:

**1.2.1**

Project Hanford Title:

**Solid Waste Program**

	FY 1997		FY 1998	
	\$	FTEs	\$	FTEs
<b>Expense</b>				
Service Agreement	\$0	0	\$0	0
Technical Service	\$7,452.3	0	\$7,209.6	0
Clerical	\$369.4	0	\$379.4	0
<b>Construction</b>	\$6,281.8	0	\$485.1	0
<b>Total</b>	\$14,035.5	0	\$8,074.1	0

Section 5.0  
Execution Year

**SOLID WASTE PROGRAM**  
**WBS 1.2.1**

FY 1997 Program Plan

WHC-SP-1114. REV.2

**5.1 Performance Measure: Objectives, Measures and Expectations**

This Fiscal Year 1997 Multi-Year Work Plan (MYWP) has been aligned to the performance measures contained in the Project Hanford Management Contract (PHMC) Best and Final Offer (BAFO) as approved by DOE-RL and aligned to the MDD endpoints as noted in Section 1.0 Technical Baseline.

This MYWP contains supporting goals and objectives (as shown in the Milestone-Description Sheets located in Section 3.3 of this MYWP), measures, and objectives as noted in the attached table for the execution year. These performance measures and the associated metrics can be found in Section 1.2 Project End-Point Targets and in the Milestone Description sheets.

The performance objectives, measures, expectations applicable to the Solid Waste Program are attached with the manager, cost account, and level of milestone.

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY1997 Program Plan

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**WASTE MANAGEMENT (SOW Section C.3.B)**

OBJECTIVE	MEASURES	EXPECTATIONS	Rep. Mgr-Cost Account-Milestone
<p>WM1 Receive, store, treat, and dispose of Solid Waste in a safe and environmentally compliant manner such that capacity can always satisfy demand, and disposal costs are reduced to a level at which they are preferable to commercially available alternatives.</p>	<p>WM1.1 Conduct safe operations and maintenance of WRAP 1 Facility.</p>	<p>WM1.1.1 Initiate operations of Waste Receiving and Processing (WRAP) Module I by March 31, 1997.</p>	<p>Norton - A4721 - TPA</p>
	<p>WM1.2 Initiate Project W-259 for 2706-T (providing double containment).</p>	<p>WM1.2.1 Initiate construction of Project W-259 2706-T secondary containment by January 30, 1997.</p>	<p>Wright - 3AB166 - RL</p>
	<p>WM1.3 Site wide customer waste management needs analyzed, alternatives to reduce costs and improve performance considered and adopted where advantageous.</p>	<p>WM1.3.1 Develop and submit for DOE approval an integrated site-wide plan to provide waste management services, including waste processing, characterization, and verification based on design data from WRAP I, at a cost competitive with commercial costs by Sept. 30, 1997.</p>	<p>McKenney - A1A1MO1 - RL</p>
		<p>WM1.3.2 Quality performance in waste management functions is verified against industry benchmarks.</p>	<p>McKenney - A1A1MO1 - RL</p>
<p>WM1.4 Process, package, and ship decontaminated materials to the Central Waste Complex (CWC), bury, or return to the customer high activity waste/contaminated equipment for storage, disposal, and/or reuse.</p>	<p>WM1.4.1 Provide subject services for less than \$700/cubic foot.</p>	<p>Wright - 1A3104 - RL</p>	

**SOLID WASTE PROGRAM  
WBS 1.2.1**

EY1997 Program Plan

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OBJECTIVE	MEASURES	EXPECTATIONS	Rep. Mgr-Cost Account-Milestone
	WM1.5 Process equipment and/or waste for reuse or disposal as offered by the generators.	WM1.5.1 The waste and/or contaminated equipment shall be processed at a cost less than \$120 per cubic foot.	Wright - A3204 - RL
	WM1.6 Maintain and accept waste into the low level burial grounds in accordance with the authorization basis for the solid waste burial grounds, the Hanford Site Solid Waste Acceptance Criteria (HSWAC), the RCRA Permit Application and supplemental submittals, and 200 West Area and 200 East (when approved) Performance Assessments.	<p>WM1.6.1 Assessments and audits show violations of authorization basis, Performance Assessments, or HSWAC are less than or equal to 95% of FY96 case rates.</p> <p>WM1.6.2 Acceptance of waste as described by the generator that does not meet the Hanford Site Solid Waste Acceptance Criteria is evidenced by audit and surveillance on waste acceptance implementation and is less than or equal to 95% of FY96 case rates.</p> <p>WM1.6.3 Operations, maintenance, and waste acceptance are consistent with the LLBG RCRA permit application and supplemental submittals. Findings of noncompliance by DOE or Ecology on the operating record, operations, and procedures and are less than or equal to 95% of FY96 case rates..</p>	Hapke - A1601 - RL ML4 - WHC
	WM1.7 Identify technology needs for waste characterization, treatment, and disposal.	WM1.7.1 Prepare "Mixed Waste Technology Needs" report yearly to meet the budget cycle by January 31, 1997 and annually.	Josephson - 1201 - RL

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY1997 Program Plan

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OBJECTIVE	MEASURES	EXPECTATIONS	Rep. Mgr-Cost Account-Milestone
	<p>WM1.8 Establish a maintenance program for the 200 West/East Area Burial Grounds Performance Assessment in accordance with HO issued Guidelines.</p>	<p>WM1.8.1 Implement a DOE-RL approved program plan and procedures to ensure that performance is maintained in compliance with the Performance Assessment (PA) by June 30, 1997 and PAs kept current thereafter.</p>	<p>Hapke - A1601 - RL</p>



**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

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**5.2 Program Performance Baseline Schedule**

The record copies of the Level 4 Performance Baseline Schedules for the Solid Waste Program reside with the appropriate Program Activity Engineer located in MO278/200 West Area.

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

**COST BASELINE FOR EXECUTION YEAR  
BY PROGRAM BY FUND TYPE BY MONTH**

WHC-SP-1114, REV. 2

(\$000s)

RL WBS #	PROGRAM TITLE	FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
1.2.1	SOLID WASTE "A"	Expense	4,508.9	4,785.3	5,239.2	4,714.0	4,757.4	6,158.9	4,959.7	4,853.4	5,826.1	4,142.4	5,536.2	5,675.2	61,156.5	
		CENRTC	30.0	30.0	30.0	45.1	51.4	59.3	51.9	51.8	56.1	49.6	57.2	52.9	565.2	
		Line Item	178.3	180.1	183.9	176.3	451.7	658.2	541.6	541.0	628.4	497.3	650.2	562.8	5,247.9	
		GPP	218.4	227.2	236.1	238.1	240.4	308.3	257.6	253.6	293.5	232.6	303.6	263.0	3,072.5	
		<b>Total BCWS/PMB (1)</b>	4,933.5	5,222.7	5,689.3	5,173.4	5,500.9	7,184.7	5,810.8	5,699.7	6,804.1	4,921.9	6,547.2	6,554.0	70,042.1	
		Mgmt Reserve (2)														
		Line Item Conting (2)	160.0	160.0	160.0	160.0	160.0				40.0	40.0	40.0	40.0	40.0	1,000.0
		Expected Carryover (3)				50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	450.0
		<b>Total</b>	5,093.5	5,382.7	5,849.3	5,383.4	5,710.9	7,234.7	5,860.8	5,789.7	6,894.1	5,011.9	6,637.2	6,644.0	71,492.1	
		<hr/>														
1.2.1.11	SOLID WASTE HAZ ANL ASSESSMENT	Expense	19.3	20.3	21.3	19.3	19.3	26.8	21.8	20.5	24.4	18.3	25.4	21.3	258.1	
		<b>Total BCWS/PMB (1)</b>														
<hr/>																
1.2.1.11	SOLID WASTE 1ML POOL ASSESSMENT	Expense	436.4	455.5	476.4	434.7	438.4	649.2	544.3	637.4	730.5	569.8	765.1	638.2	6,775.9	
		<b>Total BCWS/PMB (1)</b>														
<hr/>																
<b>PROGRAM BCWS/PMB</b>			5,389.2	5,698.5	6,187.0	5,627.4	5,958.6	7,860.8	6,376.9	6,357.7	7,559.0	5,509.9	7,337.8	7,213.5	77,076.2	
<b>PROGRAM TOTAL</b>			5,549.2	5,858.5	6,347.0	5,837.4	6,168.6	7,910.8	6,426.9	6,447.7	7,649.0	5,599.9	7,427.8	7,303.5	78,526.2	

(1) Budgeted Cost Of Work Scheduled (BCWS) Equals Performance Measurement Baseline (PMB).

(2) Management Reserve Held By RL And Line Item Contingency Held By RL.

(3) Includes Expected Expense Carryover Requested By Formal Change Control In FY1997; SWD-96-081 pending.

**SOLID WASTE PROGRAM  
WBS 1.2.1**

FY 1997 Program Plan

**COST BASELINE FOR EXECUTION YEAR  
BY PROGRAM BY COST ELEMENT BY MONTH**

WHC-SP-1114, REV. 2

Page 1 of 2  
(\$000s)

RL WBS #	PROGRAM TITLE	COST ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1.2.1	SOLID WASTE "A"	0 Salaries & Cont of Serv	3,332.1	3,494.0	3,772.4	3,406.1	3,462.4	4,349.0	3,395.2	3,316.2	4,068.9	2,951.3	3,926.2	3,277.0	42,750.8
		1 Material	146.2	159.1	178.6	173.5	177.9	239.1	158.2	152.1	188.5	144.6	196.9	158.6	2,073.1
		2 Purchased Services	935.5	1,015.4	1,139.9	1,052.7	1,319.6	1,823.2	1,557.5	1,530.2	1,796.9	1,347.8	1,775.2	2,513.4	17,807.4
		3 Charges Other Contr	37.1	39.1	41.0	37.1	37.1	48.8	35.3	35.1	42.1	31.0	42.1	35.3	461.0
		4 Internal Services	265.9	285.6	314.3	284.1	283.8	374.1	364.6	366.8	412.6	235.5	316.3	326.3	3,829.9
		5 Internal Charges	156.5	166.0	176.3	159.5	159.5	273.1	242.0	241.2	225.5	157.0	213.6	178.7	2,348.6
		6 BCS Richland	22.3	23.7	25.0	22.7	22.8	27.6	18.2	18.3	21.8	18.9	27.2	22.8	271.3
		7 Fee	37.8	39.8	41.8	37.8	37.8	49.8	39.8	39.8	47.8	35.9	49.8	41.8	500.0
		<b>Salaries are burdened with</b>	<b>4,933.5</b>	<b>5,222.7</b>	<b>5,689.3</b>	<b>5,173.4</b>	<b>5,500.9</b>	<b>7,184.7</b>	<b>5,810.8</b>	<b>5,699.7</b>	<b>6,804.1</b>	<b>4,921.9</b>	<b>6,547.2</b>	<b>6,554.0</b>	<b>70,042.1</b>
		Cost elements except for fee are burdened with G&A/SWS; Salaries includes org overhead.													
1.2.1.11	SOLID WASTE HAZ ANL ASSESSMENT (1MDD0P)	0 Salaries & Cont of Serv	17.8	18.7	19.7	17.8	17.8	24.9	20.2	18.9	22.5	16.9	23.4	19.7	238.2
		1 Material	0.9	0.9	1.0	0.9	0.9	1.1	0.9	0.9	1.1	0.8	1.1	1.0	11.5
		2 Purchased Services	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	5.4
		4 Internal Services	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.1
		6 BCS Richland	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0
		<b>Total BCWS/PMB (1)</b>	<b>19.3</b>	<b>20.3</b>	<b>21.3</b>	<b>19.3</b>	<b>19.3</b>	<b>26.8</b>	<b>21.8</b>	<b>20.5</b>	<b>24.4</b>	<b>18.3</b>	<b>25.4</b>	<b>21.3</b>	<b>258.1</b>
		Salaries are burdened with org overhead (no G&A/SWS is applied).													

(1) Budgeted Cost Of Work Scheduled (BCWS) Equals Performance Measurement Baseline (PMB) And Is Consistent With BCWS/PMB (Exhibit 3).  
Above Amounts Do NOT Include Management Reserve Held By RL, Line Item Contingency Held By RL, Or Expected Expense Carryover Requested By Formal Change Control In FY1997.

## COST BASELINE FOR EXECUTION YEAR BY PROGRAM BY COST ELEMENT BY MONTH

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(\$000s)

RL WBS #	PROGRAM TITLE	COST ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
1.2.1.11	SOLID WASTE 1ML	0 Salaries & Cont of Serv	306.2	320.3	332.6	304.3	306.3	443.0	374.3	385.3	451.1	348.0	455.8	378.4	4,405.6	
		1 Material	20.9	22.0	23.1	20.9	20.9	27.5	22.0	22.0	29.3	22.4	31.2	26.2	288.3	
	POOL ASSESSMENT	2 Purchased Services	65.2	65.9	68.5	62.0	62.0	81.8	65.5	148.7	196.0	147.0	204.2	171.5	1,338.3	
		3 Charges Other Contr	20.8	22.7	26.3	24.7	26.4	42.6	34.1	26.0	8.6	21.3	30.8	25.9	310.0	
	4 Internal Services	22.7	23.9	25.1	22.7	22.7	29.9	24.0	31.3	39.6	29.8	41.4	34.8	347.9		
	5 Internal Charges						23.9	23.9	23.9	5.8	0.9	1.3	1.1	80.8		
	6 BCS Richland	0.6	0.7	0.8	0.1	0.1	0.6	0.5	0.1	0.1	0.3	0.5	0.4	5.0		
	<b>Total BCWS/PMB (1)</b>	436.4	455.5	476.4	434.7	438.4	649.2	544.3	637.4	730.5	569.8	785.1	638.2	6,775.2		
	Salaries are burdened with org overhead (no G&A/SWS is applied).															

<b>PROGRAM BCWS/PMB</b>	<b>5,389.2</b>	<b>5,698.5</b>	<b>6,187.0</b>	<b>5,627.4</b>	<b>5,958.6</b>	<b>7,860.8</b>	<b>6,376.9</b>	<b>6,357.7</b>	<b>7,559.0</b>	<b>5,509.9</b>	<b>7,337.7</b>	<b>7,213.5</b>	<b>77,076.2</b>
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(1) Budgeted Cost Of Work Scheduled (BCWS) Equals Performance Measurement Baseline (PMB) And Is Consistent With BCWS/PMB (Exhibit 3).  
Above Amounts Do NOT Include Management Reserve Held By RL, Line Item Contingency Held By RL, Or Expected Expense Carryover Requested By Formal Change Control In FY1997.

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RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL			
1.2.1.1	2200-0	A1-Solid Waste	Expense	30,784.9	44,463.9	53,721.5	61,500.7	75,327.5	94,413.4	99,786.7	93,529.9	104,207.4	98,858.7	98,858.7	756,594.6		
			CENRTC	297.1	1,426.2	1,218.6	1,223.2	1,258.3	1,290.6	1,325.0	1,360.7	1,397.8	1,435.3	1,435.3	12,230.6		
			Line Item														
			GPP	140.7	600.0	1,500.0	1,539.2	1,579.4	1,621.2	1,663.0	1,706.5	1,751.3	1,790.0	1,790.0	1,790.0	13,891.3	
			<b>Total BCWS/PMB (1)</b>	31,222.7	46,490.1	56,440.1	64,263.1	78,163.2	97,325.2	102,774.6	96,597.2	107,356.3	102,084.0	102,084.0	102,084.0	782,716.5	
			Mgmt Reserve (2)														
			Line Item Contingency (2)														
			Expected Carryover (3)														450.0
			<b>Total</b>	31,672.7	46,490.1	56,440.1	64,263.1	78,163.2	97,325.2	102,774.6	96,597.2	107,356.3	102,084.0	102,084.0	102,084.0	783,166.5	
1.2.1.2	2220-1	A4-WRAP Module 1	Expense	10,858.7											10,858.7		
			CENRTC	48.0												48.0	
			Line Item														
			GPP														
			<b>Total BCWS/PMB (1)</b>	10,706.7												10,706.7	
			Mgmt Reserve (2)														
			<b>Total</b>	10,706.7													10,706.7
1.2.1.5	2200-2	A8-Waste Retrieval	Expense		818.3	2,064.7	3,278.2	4,577.8	6,153.4	8,317.0	6,487.7				29,696.8		
			CENRTC				1,633.5									1,633.5	
			Line Item			15,836.6	4,893.1									20,729.7	
			GPP														
			<b>Total BCWS/PMB (1)</b>	818.3	17,901.3	9,804.7	4,577.8	6,153.4	6,317.0	6,487.7						52,060.0	
			Mgmt Reserve (2)														
			Line Item Contingency (2)														
			<b>Total</b>	818.3	17,901.3	9,804.7	4,577.8	6,153.4	6,317.0	6,487.7						52,060.0	

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RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL		
1.2.1.6	2250-0	A9-New Facility Planning	Expense		1,422.7	4,158.0	2,223.5	2,878.9	3,734.1	2,848.8	2,910.7	4,125.7	6,654.9	30,755.1		
			CENRTC					969.2	1,855.8	993.0	1,019.9	1,047.4	2,550.1	8,435.1		
			Line Item				4,581.3	13,028.9	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	138,838.1		
			GPP													
			<b>Total BCWS/PMB (1)</b>		1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,896.8	31,309.5	178,028.3		
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)													
<b>Total</b>			1,422.7	4,158.0	6,804.8	16,875.0	32,517.4	26,367.9	31,876.2	26,896.8	31,309.5	178,028.3				
1.2.1.7	2320-0	A3-Waste & Decon Srvc	Expense	19,022.1	21,750.0	22,426.8	23,004.7	22,422.8	24,578.2	25,089.1	25,563.0	26,445.7	27,079.4	237,379.9		
			CENRTC	220.0	796.0	817.4	839.5	862.2	885.8	909.4	933.9	959.2	985.1	8,208.4		
			Line Item				7,820.4	10,853.3							18,773.7	
			GPP	2,931.8	1,900.2	1,957.5	152.8								6,942.3	
			<b>Total BCWS/PMB (1)</b>	22,173.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	28,064.5	271,304.3	
			Mgmt Reserve (2)													
			Line Item Contingency (2)													
			Expected Carryover (3)													
<b>Total</b>			22,173.9	24,446.1	25,201.8	31,917.5	34,138.2	25,462.0	25,998.5	26,496.9	27,404.9	28,064.5	271,304.3			
1.2.1.8	2320-2	AB-T Plant 2nd Cont	Expense	690.8	785.8	717.2								2,193.8		
			CENRTC													
			Line Item	4,099.9	2,700.0	1,899.6									8,699.5	
			GPP													
			<b>Total BCWS/PMB (1)</b>	4,790.8	3,485.7	2,616.8										10,893.3
			Mgmt Reserve (2)													
			Line Item Contingency (2)	200.0												200.0
			Expected Carryover (3)													
<b>Total</b>	4,990.8	3,485.7	2,616.8										11,093.3			

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RL WBS #	ADS #	TITLE	FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
1.2.1.4	2200-1	A7-Waste Storage & Infrastructure	Line Item	1,148.0										1,148.0
			<b>Total BCWS/PMB (1)</b>	1,148.0										1,148.0
			Line Item Contingency (2)	800.0										800.0
			<b>Total</b>	1,948.0										1,948.0
1.2.1	All Direct	Solid Waste Program	Expense	61,156.5	69,240.6	83,088.3	90,007.1	105,204.7	128,877.1	133,841.5	128,491.3	134,778.8	132,593.0	1,067,278.8
			CENRTC	565.2	2,222.2	2,036.0	3,696.2	3,087.7	4,032.0	3,227.3	3,314.5	3,404.2	4,970.4	30,555.7
			Line Item	5,247.9	2,700.0	17,736.2	17,394.8	23,862.1	26,927.7	22,726.3	27,945.7	21,523.7	22,104.5	188,189.0
			GPP	3,072.5	2,500.2	3,457.5	1,692.0	1,579.4	1,621.2	1,663.0	1,706.5	1,751.3	1,790.0	20,833.7
			<b>Total BCWS/PMB (1)</b>	70,042.1	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,306,857.1
			Mgmt Reserve (2)											
			Line Item Contingency (2)	1,000.0										1,000.0
			Expected Carryover (3)	450.0										450.0
			<b>Total</b>	71,492.1	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,308,307.1
1.2.1.11		Solid Waste Haz Analysis Assessment	Expense	258.1										258.1
			<b>Total BCWS/PMB (1)</b>	258.1										258.1
1.2.1.11		Solid Waste 1ML Pool Assessment	Expense	6,775.9										6,775.9
			<b>Total BCWS/PMB (1)</b>	6,775.9										6,775.9
<b>PROGRAM BCWS/PMB</b>				77,076.2	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,313,891.2
<b>PROGRAM TOTAL</b>				78,526.2	76,663.0	106,318.0	112,790.0	133,754.0	161,458.0	161,458.0	161,458.0	161,458.0	161,458.0	1,315,341.2

(1) Budgeted Cost of Work Scheduled (BCWS) Equals Performance Measurement Baseline (PMB).

(2) Management Reserve And Line Item Contingency Held By RL.

(3) Includes Expected Expense Carryover Requested By Formal Change Control in FY1997.

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