

Kaiser-Hill

PROJECT BASELINE DESCRIPTION

Material Stewardship Project

**Rocky Flats Environmental Technology Site
Closure Project**

June 30, 2000

Approved:

Project Manager

date

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PROJECT BASELINE

This PBD addresses the Material Stewardship Project. The Material Stewardship Project provides the technical program direction and operational support necessary for commodities and engineered services, procurement, traffic & transportation, safeguards & security, and disposition of Special Nuclear Material (SNM) and waste generated by the other five Rocky Flats Environmental Technology Site (RFETS) Closure Projects in accordance with safety, safeguards and security, and environmental requirements. The RFETS projects organization supporting closure by 2006 and major responsibilities are shown in Figure 1.

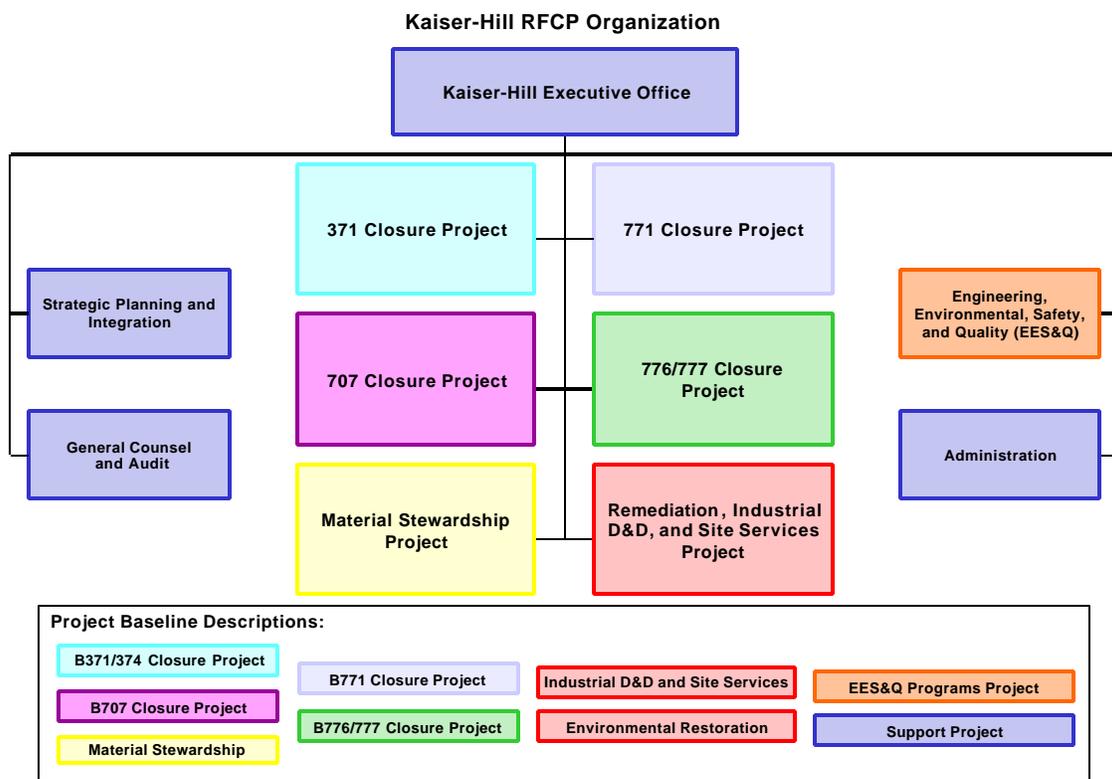


Figure 1: Kaiser-Hill RFCP Organization

1 Scope

The general work scope performed by the Material Stewardship Project includes:

- Packaging and shipping of SNM and waste materials

- Characterization of SNM and waste materials
- Storage of SNM and waste materials
- Nuclear material control and accountability
- Safeguards and security
- Commodities and engineered services procurement and warehousing
- Traffic and transportation

The work scope by cost account is provided in the following sections.

The Work Breakdown Structure (WBS) for Material Stewardship is designed to organize the work to facilitate effective implementation and performance monitoring. The WBS is shown in Table 1.

Table 1
Material Stewardship Work Breakdown Structure

WBS Element	WBS Description
F	Material Stewardship Project
FA	MS Project Management
FAA	Program Management
FAB	ESH&Q
FAC	Procurement Systems
FB	Waste Management and Transportation
FBA	Traffic and Transportation
FBB	Waste Facility Management
FBC	Waste Programs and Operation
FC	SNM Projects
FCA	Safeguards & Security
FCB	Onsite Rad Labs, 559/569 Landlord
FCC	Measurements
FCD	Material Control & Accountability
FCE	SNM Removal
FCF	PA Limited Area Closure

1.1 FAA Program Management

This work scope includes the program management, administration, and planning for Material Stewardship. It includes all management and integration tasks above the Cost Account Level. Program Management includes the Project and Deputy Project Managers, administrative support, Offsite Liaison/Shipping, and Strategic Planning & Administration.

1.2 FAB Environment, Safety, Health & Quality

The scope of work for this work element is to establish and maintain systems and standards so that Material Stewardship activities can be performed safely, in compliance, and meet quality objectives to support closure. Work includes continuous review of requirements to eliminate unnecessary and duplicative actions to streamline processes and reduce costs without compromising safety and compliance. Oversight functions will include readiness assessments, management assessments, deficiency and corrective action tracking and trending, Authorization Basis (AB) lead, Safety Management Program (SMP) interface, and ESH&Q interface. This work element includes all the necessary engineering support functions such as radiological engineering, criticality engineering, nuclear safety, fire protection, and discipline engineering. This work element will provide central radiological operations functions and resources that will be matrixed out to Material Stewardship operations (Radiological Control Technicians [RCTs] and foremen).

1.3 FAC Procurement Systems

The work scope for Procurement is to maintain the sitewide procurement systems and standards for commodities and engineered services. A primary function of this work element is to establish safe and streamlined material acquisition processes to support accelerated Site closure. Qualified commodity and engineered services buyers will be provided in this work element to directly support each of the Site projects on a full time basis. This work element also includes development, implementation, and maintenance of an effective procurement QA program; management of the IT/CP/ Foreign Ownership Control and Influence (FOCI) program, and procurement of Site commodities. This work element also includes maintaining and operating the warehouse and distribution systems as well as performing material receiving and inspection.

1.4 FBA Traffic and Transportation

Traffic and Transportation provides management, integration, oversight, technical analysis and leadership in planning, organizing, directing, and controlling transportation activities to assure that resources are safely and effectively utilized in conducting transportation operations in accordance with applicable regulations, orders, policies, plans and procedures. The organization is responsible for the management, maintenance, and operation of the government vehicle fleet and coordinates and executes on-site transfers and off-site shipping. Traffic and Transportation provides Subject Matter Experts (SMEs) and administration of regulatory requirements of Site transportation operations. They assess programmatic performance of the transportation services across the Site and adjust transportation operations, as necessary, to ensure performance is consistent with Site mission objectives. Traffic and Transportation coordinates with Projects to set strategic policy with respect to the transportation requirements to support closure and sets the programmatic direction to implement the strategy. They ensure

operations are completed safely, efficiently, and with attention paid to continuous improvement of the cost of doing business.

Traffic and Transportation maintains effective and credible relationships with internal and external customers. Traffic and Transportation also maintains and administers the Site Safety Analysis Report (SAR). This responsibility entails ensuring compliance through oversight of Site SAR implementing procedures, performing compliance assessments, tracking and trending of Site SAR deviations, administration and implementation of technical updates, compliance reporting, and personnel training to ensure effective and efficient compliance with Site SAR controls. This function works with Projects, SMPs, and Program Owners to ensure that the Site SAR controls are current and are commensurate with the risks presented by closure activities.

1.5 FBB Waste Facility Management

The Waste Facility Management scope of work for each of these waste facilities includes the landlord operations, maintenance of the AB, compliance, and stabilization/hazard reduction. This scope ensures waste management facilities are maintained and operational to perform mission work within the regulatory and AB requirements. The facilities and primary function are provided below.

Facility	Primary Function
B991/984/750Pad/B964	TRU Storage, Non-Destructive Assay, Head Space Gas Sampling, mixed waste storage
B440/664	TRU Storage, TRU Loading, Headspace Gas Sampling, Real-time Radiography, TRU repackaging, TRU visual examination/certification, LLW/M Storage, LLW/M Shipping
B906/904 Pad/Misc. Units	TRU Storage, LLW/M Storage, LLW/M Shipping, LLW/M Repackaging, Chemical Repackaging, Hazardous Waste Storage

1.6 FBC Waste Programs and Operation

The Waste Programs and Operations scope develops, manages, controls, coordinates, and executes the waste management functions and operations that are necessary to properly characterize, package, storage, ship, and dispose of wastes generated from the Closure Projects. Wastes include Transuranic/Mixed (TRU/M), Low Level Waste/Mixed (LLW/M), Sanitary, Hazardous, and Medical, and include new generation and legacy wastes. Specific scope includes:

- Receiver Site Interface
- TRU Program Management
- TRU Storage Operations
- TRU Characterization – Sampling and Analysis, Non-destructive Assay (NDA), HSGS, GGT, Real-Time Radiography (RTR), and Visual Examination
- TRU waste treatment to meet Waste Isolation Pilot Plant (WIPP) WAP
- Maintaining WIPP Certification
- TRU Shipping
- LLW/M Program Management
- LLW/M Storage Operations
- LLW/M Characterization
- LLW/M Shipping
- LLW/M Repackaging
- LLW/M Treatment
- Site Treatment Plan Implementation
- Sludge Treatment Project
- Waste Construction Projects
- Hazardous/Sanitary Waste Program Management
- Sanitary waste collection and disposal
- Chemical waste packaging and shipping
- Waste database operations and maintenance
- Waste generator instructions and guidance
- Direct in-facility technical support to waste generating projects
- Waste commodities specification and forecasting

1.7 FCA Safeguards and Security

The work scope for Safeguards and Security includes physical security, personnel security, information security, safeguards and security awareness training, human reliability programs, counter-intelligence program, operations security, communications security, classified and unclassified cyber security, vulnerability assessment and mitigation planning, threat detection, assessment, and risk reduction and monitoring of security alarms. Specific work scope includes: the protection of DOE assets, information, personnel, and SNM management of the protective force for response to sabotage, theft, or diversion threats to SNM and other emergency situations at and around RFETS; badging and Site access control; Workplace Substance Abuse and Personnel Security Assurance Program; FOCI; document classification; operations security reviews and assessment; and inquiries and investigations.

1.8 FCB Onsite Rad Labs, 559/569 Landlord

The Measurements Facility Management scope of work for each of these measurement facilities includes the landlord operations, maintenance of the AB, compliance, and stabilization/hazard reduction. This scope ensures measurement facilities maintained and operational to perform

mission work within the regulatory and AB requirements. Building 559 is operated by the Measurements organization and provides radiological analytical services for the Site. Building 569 is also under Measurements responsibility and provides NDA and RTR services.

1.9 FCC Measurements

The work scope for Measurements consists of developing and RTR and NDA and destructive assay program and equipment. It includes complete measurement program such as selection of measurement methods and instrumentation, development of calibration standards and procedures, instrument calibration, item assay, data reduction, data entry into ROCKMAS, instrument maintenance and repair, and daily measurement control monitoring. Specific NDA functions and operations are located in Buildings 371, 569, 707, 664, 984, and 559.

1.10 FCD Material Control & Accountability

The work scope for Material Control & Accountability consists of developing and maintaining the program and systems to ensure control and accountability of SNM. This includes maintenance of the SNM accountability program, maintaining the SNM and accountability records, providing certification of materials for safeguards, consolidating and reporting of NDA and analytical results, and maintaining the ROCKMAS database for material accountability. It also includes training and qualification of personnel.

1.11 FCE SNM Removal

SNM Removal includes the identification of receivers and negotiation of shipper/receiver agreements, scheduling shipments with receivers, movement of material from storage areas to packaging areas, packaging the material into approved offsite shipping containers and loading into Safe-Secure Transports. This project includes offsite shipment of: 4.5% enriched uranium, enriched uranium parts, composite items, scrub alloy pieces, metals and oxides, residues, and other types of material. Container procurement for offsite shipping of Metals and Oxides to Savannah River will also be accomplished as part of this work scope. Material movements to support building deactivation are also a major element of SNM removal.

This scope includes:

- Providing guidance, direction, and oversight for the consolidation of SNM not assigned to the Metals/Oxides or Residues Programs.
- Identifying and characterizing annually, the quantity of items to be moved among the buildings.
- Integrating the on-site transport of the SNM consolidation between buildings.
- Providing for the optimization of storage space in Building 371 as SNM consolidation is received from other buildings.
- Providing direction on budgets and schedules that support SNM Consolidation.

- Providing for the transfer of SNM above Attractiveness Level "D," oxides, and residues not scheduled for processing from their current storage locations in Building 707 to interim storage in Building 371 to support deactivation in Building 707.
- Procurement and packaging of the 9975 shipping container
- Procurement and packaging of the Pipe Overpack Container (POC)

1.12 FCF Protected Area/Limited Area Closure

This scope of work provides for the closure of the Protected Area and Limited Area. The Protected Area will initially be collapsed around Building 371 reducing the cost to maintain the collapsed Protected Area and giving efficiencies to closure activities in the old Protected Area. The Protected Area around Building 371 will be closed following removal of all Category I and II SNM from the building and the subsequent elimination of Protected Area requirements. Activities include vulnerability assessments, design, and a phased closeout of the necessary security systems and requirements for Material Access Areas (MAAs), the Protected Area and Limited Areas.

Specific functions include: (1) reduction of the Protected Area to Building 371, (2) establishment of needed Limited Areas, (3) elimination of the Reduced Building 371 Protected Area, (4) establishment of a plan for handling contingency SNM holdup, and (5) elimination of the remaining Limited Areas.

1.13 Boundaries

Material Stewardship responsibilities and interfaces are outlined in Table 2. Generally Material Stewardship involves providing services to the other Site projects. Those site projects have landlord responsibility for the physical facilities. Exceptions are limited to waste management and Plutonium (Pu) laboratory facilities (Buildings 991, 984, 440, 664, 964, and the 750 Pad, miscellaneous units, 904 Pad, and Buildings 906, 569, 559). Project interfaces are also identified in the detailed schedule which includes Materials Stewardship links to other projects, such as building deactivation and decommissioning and characterization and remediation of Individual Hazardous Substance Sites, Under Building Contamination sites, and Potential Areas of Concern.

The Material Stewardship Project includes the following facilities, tanks and storage areas:

Bldg/Area	Description
440	Waste Storage
528	Process Waste Pit (B559) Low Level Liquid
551 Pad	Waste Storage Pad (RCRA Unit 18.03)
559	Plutonium Analytical Lab
559A	Accountability Board Shelter
559-TUN	559-561 Tunnel
560	Cooling Tower - B559

561	Filter Plenum - B559
562	Emergency Generator Building - B561
563	Cooling Tower - B559
564	Production Support Office
569	Crate Counter
570	Filter Plenum - B569
664	Waste Storage and Shipping
666	Storage
668	Drum Certification
750 Pad	Pondcrete Storage Pad (Tent #'s 2, 3, 4, 5, 6 and 12)
750-DP	750 Decon Pad
750HAZ	Main Hazardous Storage Area (Unit 1, Unit 2205) (Cargo containers)
750P	Propane Tank Farm
884	Warehouse - Low Level Waste RCRA Unit 13
902 Pad	Sludge Waste Storage Pad (Tent 7)
904 Pad	Waste Storage Pad (Tents 8,9,10,11 - Low Level Mixed)
906	Central Waste Storage
964	RCRA Unit 24 Low Level Hazardous Waste Drum Storage
984	Shipping Container Storage Facility
985	Filter Plenum B996/997/999
989	Emergency Generator B991
991	Product Warehouse
992	Guard Post
996	Storage Vault - Building 991
997	Storage Vault - Building 991
998	Storage Vault - Building 991
999	Storage Vault - Building 991
T664A	Trailer (Offices)
T750F	Trailer - Locker Room/Shower
T750G	Trailer - Break Room
T760A	Trailer - Lockers/Shower - Pondcrete
Tank 018	Process Waste Tank, groundwater, abandoned (south of 884)
Tank 019	Process Waste Tank, groundwater, abandoned (south of 884)
Tank 076	Process Waste Tank (north of 441)
Tank 143	Storage Tank 450-05A (southeast of 910)
Tank 144	Storage Tank D-15 (east of 910)
Tank 149	Liquid Waste Chromium Storage Tank (south of 991)
Tank 150	Glycol Storage Tank (east of 989)
Tank 151	Storage Tank-Diesel (UST 33 east of 989)
Tank 304	Process Waste Storage Tank (UST 45 - 731)
Tank 305	Process Waste Storage Tank (UST 46 - 731)
Tank 306	Process Waste Storage Tank (UST 47 - 731)
Tank 312	Process Waste Sump (UST 62 - 889)
Tank 313	Process Waste Sump (UST 63 - 889)
Tank 334	Met Lab Waste Water Storage Tank (south of 991)
Tent 02	Mixed Waste Storage - Pondcrete / Saltcrete 750 Pad
Tent 03	Mixed Waste Storage - Solar Ponds - 750 Pad

Tent 04	Mixed Waste Storage - Solar Ponds - 750 Pad
Tent 05	Mixed Waste Storage - Pondcrete / Saltcrete 750 Pad
Tent 06	Mixed Waste Storage - Solar Ponds - 750 Pad
Tent 07	Waste Sludge Storage on 902 Pad RCRA Unit 15B
Tent 08	Pondcrete Storage Tent on 904 Pad RCRA Unit 15B
Tent 09	Pondcrete Storage Tent on 904 Pad RCRA Unit 15B
Tent 10	Pondcrete Storage Tent on 904 Pad RCRA Unit 15B
Tent 11	Pondcrete Storage Tent on 904 Pad RCRA Unit 15B
Tent 12	Pondcrete / Saltcrete Storage - 750 Pad
TK-33	Storage Tank (#2 Diesel) (replacement for UST 33/Tank 151) (E of 989)

2 Budget

The Material Stewardship Project Baseline Budget is shown in Table 2 on the following page.

Table 2. Material Stewardship Project Baseline Budget

Burdened Cost (\$000)

<i>Project/Cost Account</i>		<i>F00 Feb-Sep</i>	<i>F01</i>	<i>F02</i>	<i>F03</i>	<i>F04</i>	<i>F05</i>	<i>F06</i>	<i>F07</i>	<i>Total</i>
F	Material Stewardship Project									
FA	Project Management									
	FAA Material Stewardship Program Mgmt	4,502	9,598	7,500	7,886	6,489	5,783	5,990	221	47,969
	FAB Environmental, Safety, Health, and Quality	6,050	15,378	14,975	14,331	11,686	6,226	4,550	10	73,206
	FAC Procurement Systems	4,165	7,045	6,733	7,283	5,529	6,123	4,507	417	41,801
FB	Waste Management, Transportation & Procurement									
	FBA Traffic and Transportation	3,550	4,724	4,646	5,057	4,200	5,500	6,323	537	34,537
	FBB Waste Facility Management	16,240	16,967	9,109	8,253	6,647	8,884	8,429	10	74,540
	FBC Waste Programs & Operations	18,386	44,198	61,011	60,655	48,473	67,486	51,167	3,198	354,573
FC	Safeguards, Security & SNM Removal									
	FCA Safeguards and Security	22,448	29,740	22,868	13,296	6,169	6,367	5,119	208	106,213
	FCB Onsite Rad Labs, 559/569 Landlord	6,274	6,543	6,828	6,534	3,593	935	712	0	31,419
	FCC Measurements	17,330	17,706	16,469	10,974	5,712	5,217	5,051	285	78,743
	FCD Material Control & Accountability	2,221	4,130	4,284	3,518	2,909	1,671	1,985	124	20,842
	FCE SNM Removal	13,943	22,393	9,894	1,518	0	0	0	0	47,748
	FCF Protected Area/Limited Area Closure	882	4,117	559	508	15	0	0	0	6,081
	Project F Totals:	115,989	182,538	164,875	139,814	101,422	114,192	93,833	5,010	917,673

Thursday, June 22, 2000

rev. 2

Source: Cost Account Flash Price Spread Report, Kaiser-Hill P&I Reporting System (rpt_fps_ca, Project: BaslDevl_0622a)

FY00 Actuals from P&I Reporting System, FY00 May Database 6/28/00

3 Schedule

A summary of the Material Stewardship Project Baseline Schedule is shown in Figure 2 on the following page.

4 Assumptions

The following assumptions were utilized in developing the project baseline. Numerous internal and external requirements are specified to document the planning assumptions. Key assumptions include the timing and completion of Government Furnished Services and Items (GFS&I) for the project to be executed in accordance with Section C.3 of the Rocky Flats Closure Contract.

1. DOE will supply certified DT-22 shipping containers to support shipping schedules.
2. DOE Transportation Safeguards Division will fund and support shipments based on the proposed April 2000 RFETS Plutonium Shipment schedule.
3. 9975 shipping containers will be available to support October 00 Metal shipments.
4. 9975 container will be approved for Pu Oxide >30% by September 2000.
5. 9975 container procurement FY00-FY02 based on \$5190 per unit, plus system escalation.
6. Refurbishment of 9975 shipping containers will be \$880 each, for approximately 700 containers.
7. PuSPS hot start up will begin October 00.
8. Three hundred contaminated enriched Uranium items will be shipped to SRS in reusable DT-22's supplied, certified and funded by DOE.
9. LANL will deliver a usable shipping container by July 2000 for the "Derbies".
10. DOT 6Ms with acceptable 2R pipes will be available.
11. DOE will approve and fund the DT-22 for Composite use by July 2000.
12. SRS will accept shipments based on the Proposed April 2000 RFETS Plutonium Shipment schedule.
13. SRS will accept the balance of the classified metal based on the Proposed April 2000 RFETS Plutonium Shipment schedule.
14. LANL will accept the balance of the metal shipments based on the Proposed April 2000 RFETS Plutonium Shipment schedule.
15. POC procurement costs are based on \$1750 per unit in FY00 and \$1947 per unit in FY01.
16. Total remaining POC's to be packed will be 9678 items.
17. POC packing will be complete May 2002.
18. There will be no processing costs for Composite Items.
19. Kaiser-Hill will not fund processing, handling, repackaging or any other receiving costs for shipped items at other Sites.
20. Composite Targets will be shipped to LLNL in a DT-22 and DOE will provide funding for any LLNL processing costs.
21. Composite eU shells greater than 1000 A2 will be shipped to SRS in a DT-22.
22. Composite Bladders will be shipped to LANL in a FL.
23. Composite Special Assembly Components will be shipped to NTS.
24. There are no additional costs for shipments or containers associated with IAEA oxide shipments above current budgeted shipping costs.

25. There are no significant changes or increases in requirements for Safeguards, Security and Nuclear Material Accountability and Control activities.
26. No Top Secret materials are handled at RFETS.
27. It is assumed that DOE will approve the Plan for the Reduced PA by August 2000.
28. It is assumed that previous environmental assessment for PA Reconfiguration will form the basis for the Reduced PA construction activities, and that the environmental impact for this installation will be found to be insignificant.
29. It is assumed that CAT I&II, except for hold-up, will be removed from the east PA by 12/20/00.
30. Central Alarm Station will not be relocated to within the Reduced Protected Area.
31. Acceptance testing of the Reduced PA will occur in November/December; any adjustments will be made, then DOE notification of Readiness to Reduce the Protected Area will occur at least five days prior to the actual transition.
32. Limited Areas following PA reduction will progressively reduce as Holdup, Storage of SNM, and Storage of Classified is eliminated.
33. Measurements currently has in place, or in the procurement plan, the right type and quantity of NDA systems to support the requirements of Site Closure based on projections received to date.
34. Cost and schedule assumptions for newly generated waste are principally based on documented waste projections dated January 27, 2000, with adjustments made on a project-by-project basis by the generators.
35. All repack is assumed to occur in onsite facilities by Site resources.
36. The Tent 11 repack facility will require minimal modification for use as a repack facility for previously well-characterized, low activity wastes only.
37. The Tent 10 repack facility will be constructed to handle most types of LLW or LLMW generated at RFETS.
38. All legacy/backlog waste requiring repack will be repacked by Material Stewardship. An assumed 2.5% of the newly generated waste packaged into drums and boxes is assumed to require repack because of NCRs.
39. Repackaged legacy/backlog waste will be packaged into the largest approved container possible.
40. Total waste volumes are assumed to increase by approximately 10% because of secondary waste generation and old container carcass.
41. Repack will be performed using 100% in-process inspection and will not require RTR. Approximately 5% of waste packages will require NDA either before or after repack.
42. LLW ER Soils disposal is planned for Envirocare at a cost of \$5.25/ft³.
43. Newly generated soils from ER activities will be made LDR-compliant by the generating projects.
44. Use of rail shipping for LLW soils will be implemented in FY02 or FY03. Gondola cars with fiberglass lids will be used; each car holds approximately 65 m³. Rail transport will be coordinated and performed through an independent subcontractor. If rail shipment cannot be implemented, costs will increase.
45. Disposal cost for LLW debris and routine waste at NTS is \$9/ft³.

46. Use of strong, tight containers will be authorized for non-Pu buildings throughout the Closure Project duration.
47. Direct shipment of waste is implemented for buildings with full implementation by the end of FY01.
48. Use of reusable containers will start in FY01. Generators will pay for using reusable containers.
49. NDA assumptions: 35% of D&D waste from Pu buildings will require NDA: 10% of D&D waste from non-Pu buildings requires NDA in FY01 and 02, 5% in FY03 & 04, 2.5% through closure.
50. Offsite truck shipment costs for all other LLW to NTS are budgeted at approximately \$61/m³.
51. A “flat fee” is assigned for NTS disposal annually to cover a majority of landlord costs and prevent facility shutdowns and rate fluctuations.
52. Shipment of TRU waste to WIPP will be by ATMX railcar starting in FY03.
53. Current 100% headspace gas sampling requirement for all transuranic waste payload packages will be reduced to 10% starting in FY01.
54. RTR will not be necessary for newly generated waste starting in FY01 because operational visual verification of waste contents at time of packaging will be done instead. Since RTR will not be done for newly generated waste then confirmatory VE will also not be required.
55. All headspace gas sampling will transfer to the NFT mobile system or equivalent mobile system (for SWBs) starting in FY02.
56. D&D Newly Generated Waste will use SWBs for 80% of the waste generated (20% drums).
57. Leveling of TRU shipping volumes is assumed to stay below current storage capacity.
58. RCRA hazardous and LLM waste chemicals must be packaged and shipped for disposal or transferred to Permitted Storage within the RCRA 90-day accumulation limit, and can not be accumulated longer to achieve greater packaging efficiencies.
59. RCRA-hazardous are and LLM waste chemicals are packaged, dispositioned and disposed within six months of waste generation.
60. All ESH&Q support resources (i.e., environmental compliance, industrial safety & hygiene, nuclear safety, criticality safety, radiological protection) for MS facilities and activities in those facilities are budgeted in and supplied from MS/ESH&Q.
61. MS project needs for ESH&Q-type resources (e.g., RCTs, crit safety engineers) in other Project facilities (e.g., B371 or B707 are not in the ESH&Q budget, but are expected to be budgeted by the user project.
62. ESH&Q resources distributed to the 6 facility areas drop off the ESH&Q budget in the FY in which the given facility area is scheduled to enter D&D (i.e., ESH&Q support during D&D will be budgeted in a facility D&D budget).
63. The closure project budget and schedule reflect planned productivity improvements of greater than 20% per year over current performance in terms of both numbers of personnel and work accomplishment.

5 Project Organization

The organization chart for Material Stewardship is shown in Figure 3. The organizations closely follow the Cost Accounts for Material Stewardship, but reflect slight differences in title and function to allow for improved project management and control.

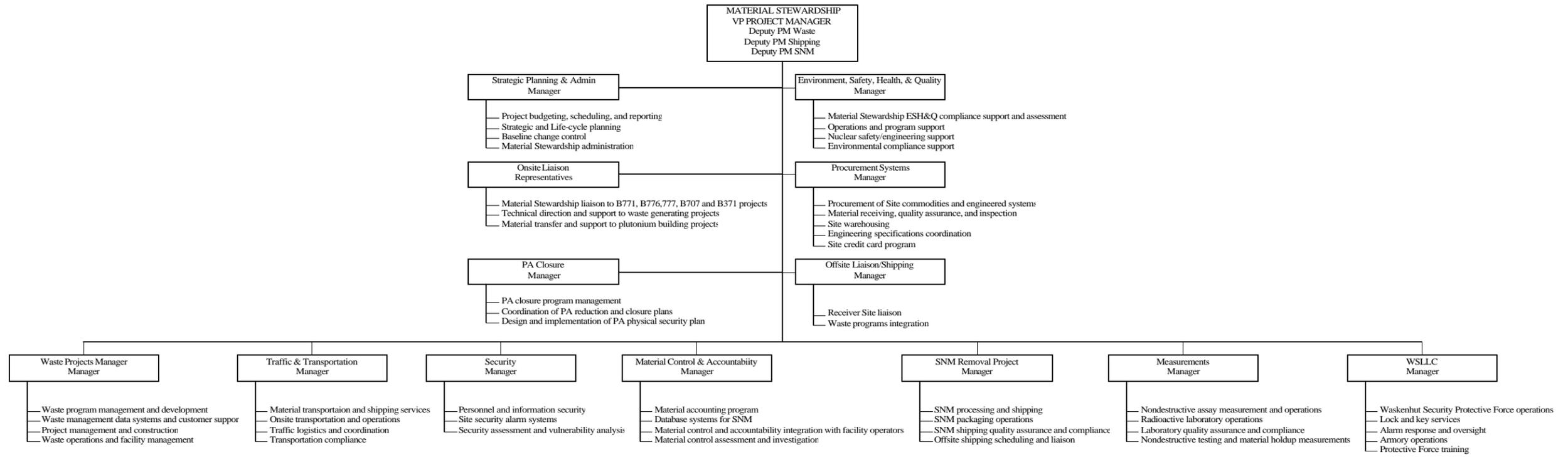


Figure 3. Materials Stewardship Organization Chart