**RCRA and Operational Monitoring Program Office
U.S. Department of Energy,
Richland Field Office**

**RCRA and Operational Monitoring
FY 1994 Fiscal Year Work Plan**

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RCRA and Operational Monitoring 1994 Fiscal Year Work Plan

WBS 1.5.3

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**Westinghouse
Hanford Company**

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Preface

The RCRA & Operational Monitoring (ROM) Program Office manages the direct funded Resource Conservation Recovery Act (RCRA) and Operational Monitoring under Work Breakdown Structure (WBS) 1.5.3. The ROM Program Office is a Branch of Liquid Waste Disposal, a part of Restoration and Remediation of Westinghouse Hanford Company (WHC).

The Fiscal Year Work Plan (FYWP) takes its direction from the Multi-Year Program Plan (MYPP). The FYWP provides the near term, enhanced details for the Program Office to use as baseline Cost, Scope and Schedule. Change Control administered during the fiscal year is against the baseline provided by the FYWP.

The MYPP process has been developed by WHC to meet its internal planning and integration needs and complies with the requirements of the U.S. Department of Energy, Richland Operations Office (RL) Long Range Planning Process Directive (RLID 5000.2).

Westinghouse Hanford Company (WHC) has developed the multi-year planning process for programs to establish the technical, schedule and cost baselines for program, and support activities under WHC's scope of responsibility. The baseline information is developed by each WHC support services organization (to be developed for the fiscal year (FY)1995 MYPP, and direct funded Program in the organization or Program MYPP. WHC Planning and Integration utilizes the information presented in the Program specific MYPP to develop the Site-Wide Integrated Schedule(s).

The MYPPs have been developed to establish the services organization and program specific technical, schedule and cost baseline. The MYPPs are driven by the Hanford Mission Plan (HMP) Volume 1, Site Guidance, and set forth the program plan for work scope definition, work planning, work management, and performance monitoring. The MYPP will be utilized by WHC Program and Department Managers as the baseline management tool for status and progress monitoring, performance enhancement and impact analysis studies, and as the basis for detailed fiscal year and near-term planning.

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Section 1

1. Program Description

1A. Program Mission Statement

1B. Program Objectives

1B1. Technical Requirements

1B2. Strategies for Achieving Objectives

1C. Program Priorities

1C1. FY94 Building Blocks

1D. Program Assumptions and Constraints

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1. Program Description

RCRA and Operational Monitoring manages specific environmental surveillance and monitoring activities in support of Westinghouse Hanford Company at the Hanford Site.

The program is focused on four specific goals, as follows:

- Establish, operate, maintain and close groundwater monitoring systems to satisfy Resource Conservation and Recovery Act (RCRA) regulations and DOE orders.**
- Establish, operate, maintain and close effluent monitoring systems to satisfy Clean Air Act (CAA), Clean Water Act (CWA) and DOE orders.**
- Compile, validate, interpret, and report data from groundwater and effluent monitoring systems.**
- Maintain and operate Hanford and Eastern Washington seismic network and advanced geophysical logging capability. Monitor and maintain active cribs, ponds and ditches.**
- Provide surface monitoring for worker access safety in accordance with Doe orders.**

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1A. Program Mission Statement

Our demonstrated excellence in our goals will:

- **Achieve compliance with the applicable regulations in a cost effective manner.**
- **Provide critically needed data for Hazardous Waste Permits (including Air and Water Permits).**
- **Solidify public confidence in Site activities.**
- **Provide Near-Field monitoring to determine the effects of site activities on the environment immediately adjacent to the site facilities.**
- **Provide verification that measures to protect workers, the public and the environment are effective.**
- **Provide a basis for the initiation of corrective measures if required.**

We will accomplish this through teamwork between DOE and its contractors, regulators, technical experts, and the public.

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1B. Program Objectives

The nature of our program influences our Key Objectives towards quality and continuity of service in the following focused areas:

- Complete installation of the RCRA monitoring system around Treatment, Storage and Disposal Facilities to satisfy TPA milestone M-24-00.
- Decommission wells which will have no further use for monitoring.
- Support operating permits by Groundwater, Effluent and Near-Field Monitoring.
- Report monitoring results to meet safety, statutory and operating needs.

1B1. Technical Requirements**Program Management:**

This activity provides program management, financial control and reporting, program level scheduling and administration for the RCRA and Operational Monitoring program. This activity manages the procurement of capital equipment not related to construction. (Replacement of vehicles, monitoring equipment and instrumentation.) The activity is expected to continue at the current level of activity until RCRA and Operational Monitoring is no longer required.

The aspects (and related subactivities) of the program include: RCRA Groundwater Monitoring Well Installation, Groundwater Monitoring, Groundwater Well Maintenance and Decommissioning, Monitor & Assess Basins, Effluent Monitoring, and Environmental Monitoring.

Program Management provides the response and interaction with DOE and the regulatory agencies.

Current law requires groundwater monitoring to continue for 30 years after closure of treatment, storage and disposal facilities followed by the decommissioning of monitoring wells. This would continue beyond the year 2070 under current schedules.

FYWP 1994**WBS 1.5.3****1B1. Technical Requirements****Groundwater Monitoring:**

This activity performs groundwater monitoring (water-level measurement, sampling and analysis) for RCRA regulated treatment, storage and disposal (TSD) facilities at Hanford. Also provided is groundwater monitoring for those operational facilities which may impact the quality of groundwater but are not regulated by RCRA.

Analytical services are contracted to a laboratory approved for RCRA analysis. Data verification, validation and records management assures RCRA Compliant Data for use in operational permits and closure plans.

All RCRA TSD permit applications (for continued operation) and Closure Plans must include groundwater data.

Data provided by this activity secondarily serves to assist with site characterization studies for corrective action.

Groundwater monitoring includes about 1100 well site visits per year for sampling. The number of samples will increase as a result of:

- Increasing TSD activity onsite
- Additional wells to make the existing groundwater monitoring network compliant
- Existing contamination plumes reaching monitoring wells.

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1B1. Technical Requirements

Groundwater Monitoring continued:

All groundwater monitoring activities are performed in compliance with the following state and federal Inter-Agency Guidelines and regulations:

- 40 CFR 265 (Subpart F all sections), "Interim Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities"
- QAMS 005/80, "Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans"
- Washington Administrative Codes
WAC-173-303-645, "Dangerous Waste Regulations-Groundwater Protection"
WAC-173-304, "Minimum Waste Regulations for Solid Waste Handling"

In addition, operational monitoring must satisfy the requirements of:

- DOE Order 5400.1, "General Environmental Protection Program"
- DOE Order 5480.1B, "Environment, Safety and Health Program for DOE Operations"
- DOE Order 5820.2A, "Radioactive Waste Management"
- WHC-CM-6-1, "Standard Engineering Practices"
- WHC-CM-7-7, "Environmental Investigation and Site Characterization Manual"
- "WHC RCRA Project Management Plan and Quality Assurance Program Plan"

FYWP 1994**WBS 1.5.3****1B1. Technical Requirements****Well Maintenance:**

This activity performs essential repairs and preventive maintenance on more than 500 groundwater monitoring and observation wells in the 100, 200, 300, 400, and 600 Areas.

Wells that are no longer serviceable and have no value for future use need to be decommissioned to remove the potential pathway to the groundwater. There are currently in excess of 4000 wells of varying designs and configurations on the Hanford Site. Many of these wells are being evaluated as candidates for decommissioning. Initial decommissioning activities on a sustained basis are planned for FY 1994.

Decommissioning activities will be suspended during FY 1995 due to funding limits.

Effluent Monitoring:

This activity provides environmental surveillance of gaseous and liquid effluents at the PUREX Plant, Plutonium Finishing Plant, and 222-S Laboratory. Included are Health Physics Technologist training and radiological safety engineering support.

Health Physics Technicians (HPTs), on a monthly basis, collect approximately 1000 air samples and approximately 100 liquid effluent samples, perform over 1100 equipment and source checks, and prepare 120 operational data sheets, to ensure compliance with the DOE Order 5480.11 and Environmental Compliance Manual.

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1B1. Technical Requirements

Environmental Monitoring:

This activity provides the environmental surveillance and monitoring of the cribs, ponds and ditches in the 200 Areas. Roads and land areas are monitored for potential contamination in the 100, 200 and 600 areas. Maintenance, operation, and reporting of the seismic network for Hanford and Eastern Washington is performed in conjunction with the University of Washington. Advanced vadose zone monitoring is utilized by this activity to identify and characterize contamination in the vadose zone in lieu of substantially more expensive and time consuming direct sampling, where practical.

The surveillance of road and land areas for potential contamination includes 143 monthly surveys, 35 quarterly, 6 semi-annual and 28 annual surveys to quantify and mitigate transfer of radioactive contamination.

Surveillance and maintenance is provided for cribs, ponds, and ditches in the 200 Areas. Activities include monitoring of active cribs, monitoring pond and crib water-levels, and associated maintenance. Maintenance consists of crib filter changes, dredging, water flow meters, and instrumentation. This task is essential to the continued use of cribs, ponds, and ditches for water disposal in a safe and effective manner.

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1B2. Strategies for Achieving Objectives

- Continue to sample and analyze groundwater for RCRA and Operational facilities as required by conditions and regulations.
- Repair and maintain groundwater wells to ensure valid and consistent sampling of the groundwater.
- Utilize contracted laboratory services to ensure compliance and impartial analysis of samples.
- Validate, publish, and store sample analysis data per Data Management Requirements.
- Install new and/or replacement groundwater wells as agreed to by TPA.
- Analyze & update groundwater monitoring requirements as agreed to by TPA.
- Continue to operate, maintain and perform surveillance of active and inactive (200 East & West Areas) Cribs, Ponds and Ditches to monitor and quantify potential contamination spread.
 - Continue to perform and develop Spectral Gamma logging of inactive cribs and initiate Vadose Zone monitoring.
- Continue to operate gaseous effluent monitoring systems for Purex, PFP, 222-S Lab, Tank Farms and UO3 facilities.
- Continue to operate and maintain the Seismic Array for Hanford and Eastern Washington in conjunction with the University of Washington.
- Continue to develop and maintain near field environmental monitoring and reporting of events within the Separation Areas (200 East & West) and 600 Area.

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1C. Program Priorities

Our strategy is to embrace and aggressively support environmental compliance and safety related issues, in a cost effective manner. The following ordered list focuses our priorities.

- 1) Monitor groundwater from the system of wells around the RCRA treatment, storage and disposal (TSD) and Operational Facilities. Monitoring includes sampling, analysis, scientific review and assessment, long term data management, quality control and assurance, reporting and planning activities, and purgewater management.
- 2) Monitor site surveillance of gaseous and liquid effluents. This includes the Near-Field monitoring systems that assist with the early identification and notification of unintentional releases to minimize the spread of contaminants.
- 3) Purchase necessary equipment to support program monitoring activities.
- 4) Manage programmatic activities and serve as an advocate for the program. This includes planning activities that determine distribution of site funding.
- 5) Provide environmental monitoring, support and maintenance activities for the following:
 - Active cribs, ponds, and ditches
 - Inactive cribs
 - Hanford and Eastern Washington Seismic Monitoring
- 6) Provide responsive and routine well maintenance and remediation to maintain the monitoring systems in a functional condition.

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1C. Program Priorities

- 7) Initiate and continue a planned decommissioning program for unused and noncompliant wells and boreholes to render them incapable of providing a pathway for contamination of the groundwater or the surface.**
- 8) Prepare for installation of "up to 50" RCRA wells per year as provided in the Tri-Party Agreement.**
- 9) Apply technology for more effective and efficient well installation on the site and acceptable means of analysis at the well site.**
- 10) Provide groundwater monitoring assessment at sites where significant quantities of radionuclides could be released to the environment.**

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1C1. Building Blocks					FY 1994			(\$ in 000)
ADS (TDD)	Description	RL Pri	TPA MS #	Fund Type	FY 1994	CUM FY 1994	Justification of Scope / Impact if not funded	
7340-0 (BA)	Environmental Effluent Monitoring (HPT)	A2	N/A	Expense	1120	1,120	Clean Air Act, 40CFR61 / Unmonitored gaseous emissions	
7340-0 (BB)	Environmental Surveillance (HPT) of stabilized sites	A2	N/A	Expense	1081	2,201	Ensure containment of contamination / Increased risk of contamination	
7340-0 (BB)	Inactive Crib Monitoring	B1	N/A	Expense	1355	3,556	Monitors vadose zone for contamination spread / Expensive core sampling	
7340-0 (AA)	General Capital Equipment	B1	N/A	Capital	3564	7,120	New or Replacement equipment for environmental monitoring, 40CFR61, 40CFR265 / Monitoring equipment no longer functional as equipment fails	
7340-0 (BB)	Seismic Monitoring	B1	N/A	Expense	506	7,626	Maintain surveillance of the Hanford Site and surrounding portion of eastern Washington / Could prohibit future construction	
7340-0 (BB)	Cribs, Ponds and Ditches	B1	N/A	Expense	835	8,461	Active liquid discharge sites must be monitored to ensure operating parameters are maintained / Unmonitored liquid discharges to soil column	
7340-0 (BA)	Effluent & Environmental Monitoring 200/600 Area	B1	N/A	Expense	3860	12,321	Clean Air Act, 40CFR61 / Reporting requirements would be noncompliant and an unsafe practice if not performed	
7340-0 (AD)	Groundwater Well Maintenance	B1	N/A	Expense	1600	13,921	Well must be maintained for groundwater monitoring, 40CFR265 / Without wells GW monitoring does not function	
7340-0 (AD)	Groundwater Well Decommissioning	B1	N/A	Expense	800	14,721	Washington Administrative Code (WAC-173-160), eliminates pathway to groundwater / GW continues to be at risk	
7340-0 (AC)	Purgewater Management	B1	N/A	Expense	438	15,159	Maintains Compliant disposition of Purgewater / Stored Purgewater would cause greater costs	
7340-0 (AC)	Groundwater Monitoring Well Sampling & Analysis	B1	N/A	Expense	7456	22,615	Samples collected & analyzed in support of RCRA, SDWA, CWA, and 40CFR265 requirements / Noncompliance will place GW and public at risk	
7340-0 (AC)	Groundwater Project Scientist	B1	N/A	Expense	1222	23,837	Technical support to Geoscience Monitoring activities / Loss of Geohydrological technical expertise	

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1C1. Building Blocks					FY 1994		(\$ in 000)
ADS (TDD)	Description	RL Pri	TPA MS #	Fund Type	FY 1994	CUM FY 1994	Justification of Scope / Impact if not funded
7340-0 (AC)	RCRA Reporting and Data Management	B1	N/A	Expense	1511	25,348	RCRA, WAC, and 40CFR265 require data management of GW data / Noncompliance due to lack of records
7340-0 (AC)	Groundwater Support Activities	B1	N/A	Expense	730	26,078	Administrative support to Geoscience and the GW Monitoring activity, 40CFR265 / Loss of Geohydrological Oversight
7340-0 (AA)	Program Management	B1	N/A	Expense	1573	27,651	Program planning and control / RCRA Monitoring would not exist
7340-0 (BA)	Compliance/Technical Management	B1	N/A	Expense	300	27,951	Reporting & compliance with air emissions / Air Emissions Report not submitted to EPA
7340-0 (BA)	NESHAPs Capital Equipment	B1	N/A	Capital	1351	29,302	Purchase New or Replacement monitoring equipment for NESHAPS Compliance Order / Monitoring equipment will be noncompliant
7340-1 (AG)	Groundwater Well Planning	B1	M-24-00	Expense	300	29,602	Technical Support to GW Well Planning / Noncompliance with TPA
7340-1 (AG)	Project Support for Groundwater Wells Drilling	B1	M-24-00	Expense	738	30,340	Support to the actual well drilling / Noncompliance with TPA
7340-1 (AG)	Groundwater Well Installation	B1	M-24-00	Line Item	3386	33,726	IAG for GW well installation, 40CFR265 / Noncompliance with TPA
7340-0 (BA)	NESHAPs Compliance Support	B1	N/A	Expense	1095	34,731	Study New or Replacement monitoring requirements for NESHAPS Compliance / Noncompliance with EPA-NESHAP Orders
Future (BA)	NESHAPs Compliance Project	B1	N/A	Line Item	0	34,731	Upgrade Stack Monitors to support NESHAP, 40CFR261 / Noncompliance with EPA-NESHAP Orders (Funding required after FY94)

Total CENRTC 4,915

Total Line Item 3,386

Total Operating 26,430

Grand Total 34,731

GENERAL NOTE:

Noncompliance with referenced regulations can result in "Stop Work" or "Compliance Orders", fines and/or legal actions. Response to immediate compliance is not cost effective.

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1D. Program Assumptions and Constraints

The key assumptions in planning the Program Management activity are:

- The RCRA and Operational Monitoring program will continue to operate in accordance with:
 - The milestones and schedules laid out in the Tri-Party Agreement
 - The interim status rules for treatment, storage and disposal of hazardous waste as required by 40 CFR 265 and as implemented by Washington State codes.
- The program will continue to grow as air monitoring required by the most recent revisions to the Clean Air Act are implemented at the site during the next two years before stabilizing.
- Any major perturbations to the current schedule and scope for site activities will change this activity.

The Issues and Constraints for the Program Management activity are:

- Fiscal year (FY) 1992 and 1993 Expense Funds are assumed to be carried over into FY 1994.
- There are currently no provisions for additional staff.

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1D. Program Assumptions and Constraints

The key assumptions in planning the Groundwater Monitoring activity are:

- Current sampling and analysis regulations will not change.
- Analysis costs will not change from those incurred under existing contracts.
- Two new sites per year begin groundwater Quality Assessment monitoring.
- Historical data used to formulate cost, scope and schedules can be accurately extrapolated through the planning period, in spite of differences in sizes of facilities.

The Issues and Constraints for the Groundwater Monitoring activity are:

- Standards for analysis required by the regulators and site requirements have not been achieved by subcontract laboratories.
 - A unit price increase averaging 40% by the outside laboratories, if repeated, will result in significant additional costs for analysis.
 - Cost increases like this would invalidate the cost basis for outyear ADS and budget planning.

FYWP 1994**WBS 1.5.3****1D. Program Assumptions and Constraints****The key assumptions in planning the Groundwater Well Maintenance & Decommissioning activity are:**

- The level of support to maintain the existing groundwater monitoring is near constant.
- Starting in FY94 and thereafter, funds are made available to abandon non-functional wells as prescribed by regulations.
- Extensive well remediation will not exceed \$40K per well.
- User organizations define well monitoring needs and obtain regulatory compliance in a timely manner.
- Support contractors can provide the required resources when needed.

The issues and constraints for the Groundwater Well Maintenance & Decommissioning activity are:

- Routine maintenance could identify significant additional work beyond that which could be done with proposed funding.
- The need for an aggressive well abandonment program is real and could become a regulatory issue.
 - Planning for FY94 included modest sums for a measured beginning of this activity.

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1D. Program Assumptions and Constraints

The key assumptions in planning the Effluent Monitoring activity and the Environmental Monitoring activity are:

- Facilities and areas requiring surveillance will remain near constant.
- Legal and prudent monitoring and surveillance requirements will not be changed.
- When funds become available from discontinued monitoring activities they will be used to fund activities whose scope was reduced based on available funding, where appropriate.

The Issues and Constraints for the Effluent Monitoring activity are:

- A Federal Facility Compliance Agreement (FFCA) was prepared to complete the required action. The FFCA is being negotiated with the Environmental Protection agency.

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1D. Program Assumptions and Constraints

The key assumptions in planning the RCRA Groundwater Well Installation activity are:

- It will continue to be necessary to install up to 50 new RCRA wells per year.
 - Of these, 1/4 will be drilled under hazardous and radioactive conditions.
 - Typical well depths will be similar to those in the central plateau.
 - Fifteen deep characterization wells are estimated as non-hazardous, non-radioactive, but with extensive sampling during drilling.
 - Specific needs for FY 1994 are much less than 50 wells and the program will not proceed with the 15 deep wells in FY 1994.
- New facilities will require normal depth, non-hazardous, non-radioactive wells with sampling.
- Initially identified wells to be installed during 1994 include one (1) well at the Non-Radioactive Dangerous Waste Landfill (M-24-00), three (3) wells at the the K West Irradiated Fuel Storage Basin, and as many as seven (7) assessment well at effluent discharge locations. These are included in the scope. Washington State Department of Ecology may require additional wells.

The Issues and Constraints for the RCRA Groundwater Well Installation activity are:

- FY 1994 drilling will be funded from FY 1993 carryover.

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Section 2

2. Program Technical Baseline

- 2A. Program Work Breakdown Structure (WBS)**
- 2B. WBS Index and Responsibility Assignment Matrix (RAM)**
 - 2B1. RL Site WBS Index and RAM**
 - 2B2. Contractor WBS Index and RAM**
- 2C. Program Deliverables**
- 2D. Program Logic Diagrams**
 - 2D1. Program Schedule Logic Diagram**
 - 2D2. Program Schedule Logic Diagram Narrative**
 - 2D3. Program Functional Logic Diagram**
 - 2D4. Program Functional Logic Diagram Narrative**

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WORK BREAKDOWN STRUCTURE BY PERFORMING ORGANIZATIONS

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2B1. RL Site Work Breakdown Structure Index and Programmatic Responsibility Assignment Matrix.					
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
1.5.3.1			RCRA & OPERATIONAL MONITORING	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1.5.3.1.11		PROGRAM MANAGEMENT	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.11.01	PROGRAM MANAGEMENT	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1.5.3.1.13		RCRA GROUNDWATER MONITORING	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.13.01	WELL SAMPLING & ANALYSIS	D.G. HORTON	81232 GEO/HYDRO CHEMISTRY
		1.5.3.1.13.02	RCRA REPORTING	J.S. SCHMID	81233 GEO/HYDROLOGY BASELINE
		1.5.3.1.13.03	RCRA PROJECT SCIENTIST SUPPORT	R.L. JACKSON	81235 RCRA GEOHYDROLOGY
		1.5.3.1.13.05	GROUNDWATER SUPPORT ACTIVITIES	M.J. LOVE	81230 RCRA GEOHYDROLOGY BASELINE
		1.5.3.1.13.06	PURGE WATER DISPOSAL	Y. SADA	81360 ENVIRONMENTAL DATA MANAGEMENT
	1.5.3.1.14		GW WELL MAINT AND DECOMMISSIONING	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.14.01	GW WELL MAINT & DECOMMISSIONING	D.J. MOAK	81730 ENVIRONMENTAL FIELD SERVICES
	1.5.3.1.19		MONITOR & ASSESS BASINS	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.19.01	MONITOR & ASSESS LIQUID EFFLUENT		
	1.5.3.1.21		EFFLUENT MONITORING	D.L. MITCHELL	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.21.01	ENV. EFFLUENT MONITORING (HPT)	B.H. LUECK JR.	33300 TANK WASTE REMEDIATION HP
		1.5.3.1.21.02	EFFLUENT & ENVIRONMENTAL MONITOR	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
		1.5.3.1.21.03	COMPLIANCE AND TECHNICAL MANAGEN	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
		1.5.3.1.21.04	WESHAPs COMPLIANCE	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
	1.5.3.1.22		ENVIRONMENTAL MONITORING	D.L. MITCHELL	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.1.22.01	CRIBS PONDS & DITCHES	W.E. ROSS	7C100 WASTE TANK FACILITY OPERATION
		1.5.3.1.22.02	SEISMIC MONITORING	M.H. RASMUSSEN	81234 GEOPHYSICS
		1.5.3.1.22.03	INACTIVE CRIB MONITORING	J.W. FASSETT	81234 GEOPHYSICS
		1.5.3.1.22.04	ENV. SURVEILLANCE HEALTH PHYSICS	D.S. GUNNINK	33140 SITE SURVEILLANCE HEALTH PHYSICS
1.5.3.2			RCRA GW WELL INSTALLATION	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1.5.3.2.17		RCRA GW WELL INSTALLATION	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1.5.3.2.17.01	GW WELL PLANNING	R.L. JACKSON	81235 RCRA GEOHYDROLOGY
		1.5.3.2.17.02	PROJECT SUPPORT FOR GW WELLS	J.F. KELLER	24320 ENVIRONMENTAL PROJECTS
		1.5.3.2.17.03	PROJECT W-152 WELL INSTALLATION	J.F. KELLER	24320 ENVIRONMENTAL PROJECTS

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2B2. Contractor Work Breakdown Structure Index and Programmatic Responsibility Assignment Matrix.					
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
1R43			RCRA & OPERATIONAL MONITORING	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1R43A		PROGRAM MANAGEMENT	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
		1R43A1	PROGRAM MANAGEMENT	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1R43C		RCRA GROUNDWATER MONITORING	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1R43C1	WELL SAMPLING & ANALYSIS	D.G. HORTON	81232 GEO/HYDRO CHEMISTRY
		1R43C2	RCRA REPORTING	J.S. SCHMID	81233 GEO/HYDROLOGY BASELINE
		1R43C3	RCRA PROJECT SCIENTIST SUPPORT	R.L. JACKSON	81235 RCRA GEONHYDROLOGY
		1R43C5	GROUNDWATER SUPPORT ACTIVITIES	M.J. LOVE	81230 RCRA GEONHYDROLOGY BASELINE
		1R43C6	PURGE WATER DISPOSAL	Y. SADA	81360 ENVIRONMENTAL DATA MANAGEMENT
	1R43D		GW WELL MAINT AND DECOMMISSIONING	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1R43D1	GW WELL MAINT & DECOMMISSIONING	D.J. MOAK	81730 ENVIRONMENTAL FIELD SERVICES
	1R43Z		MONITOR & ASSESS BASINS	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1R43Z1	MONITOR & ASSESS LIQUID EFFLUENT		
	1R43U		EFFLUENT MONITORING	D.L. MITCHELL	86400 RCRA & OPERATIONAL MONITORING
		1R43U1	ENV. EFFLUENT MONITORING (HPT)	B.H. LUECK JR.	33300 TANK WASTE REMEDIATION HP
		1R43U2	EFFLUENT & ENVIRONMENTAL MONITOR	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
		1R43U3	COMPLIANCE AND TECHNICAL MANAGEN	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
		1R43U4	NESHAPs COMPLIANCE	L.P. DIEDIKER	88420 EFFLUENT & EMISSION MONITORING
	1R43V		ENVIRONMENTAL MONITORING	D.L. MITCHELL	86400 RCRA & OPERATIONAL MONITORING
		1R43V1	CRIBS PONDS & DITCHES	M.E. ROSS	7C100 WASTE TANK FACILITY OPERATION
		1R43V2	SEISMIC MONITORING	N.H. RASMUSSEN	81234 GEOPHYSICS
		1R43V3	INACTIVE CRIB MONITORING	J.W. FASSETT	81234 GEOPHYSICS
		1R43V4	ENV. SURVEILLANCE HEALTH PHYSICS	D.S. GUNNINK	33140 SITE SURVEILLANCE HEALTH PHYSICS
1R42			RCRA GW WELL INSTALLATION	R.R. THOMPSON	86400 RCRA & OPERATIONAL MONITORING
	1R42G		RCRA GW WELL INSTALLATION	M.T. YORK	86400 RCRA & OPERATIONAL MONITORING
		1R42G1	GW WELL PLANNING	R.L. JACKSON	81235 RCRA GEONHYDROLOGY
		1R42G2	PROJECT SUPPORT FOR GW WELLS	J.F. KELLER	24320 ENVIRONMENTAL PROJECTS
		3R42G3	PROJECT W-152 WELL INSTALLATION	J.F. KELLER	24320 ENVIRONMENTAL PROJECTS

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2C. Program Deliverables

- **Annual Activity Data Sheets, Multi-Year Program Plan and Fiscal Year Work Plan**
- **Annual Report for Operational Groundwater Monitoring at Hanford**
- **Quarterly Groundwater Report for RCRA Facilities**
- **Annual Calendar Year Groundwater Monitoring Report**
- **Installation of the number of wells agreed to by WDOE / DOE / EPA**
- **Annual Hanford (Seismic) Network Catalog**
- **Annual Environmental Surveillance Report**
- **Annual Report of Gaseous & Liquid Effluent Discharges**
- **Annual Transmittal of EIS / ODIS data to Idaho National Engineering Labs**
- **Annual Hanford Air Emissions Report to EPA**
- **Quarterly Environmental Radiological Monitoring Report**

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2D1. Program Schedule Logic Diagram

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2D1. Program Schedule Logic Diagram

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2D2. Program Schedule Logic Diagram Narrative

RM0005 Prepare Well Decommissioning Plans

Evaluate well construction and identifies wells requiring decommissioning. Prepare decommissioning plans, specifications and procedures. This activity represents the front end planning process that will determine the future course of action for this effort.

RM0010 Decommission Non-Required Wells

Decommission wells of all types that present a danger of environmental contamination spread, are not in use, or will have no further use. Wells are decommissioned per plans approved by WDOE at the rate agreed to, and funded by, DOE.

RM0015 Decommission Remaining Wells

Decommission wells after they finish serving their useful life and will no longer be useful. Wells are decommissioned per plans approved by WDOE at the rate agreed to, and funded by, DOE. This activity emphasizes the difference between wells that are not wanted and wells that have served their useful life. As facilities close and 30 years of monitoring passes functional wells will no longer be required, however some may still be needed for water table level measurement or other purposes.

RM0020 Perform Groundwater Monitoring

Groundwater monitoring (sampling and analysis) for RCRA regulated Treatment, Storage and Disposal (TSD) facilities at Hanford. This activity also provides operational groundwater monitoring for those facilities which may impact the quality of groundwater but are not regulated by RCRA. This is an ongoing activity that will taper off as TSD facilities complete Operation, complete Decontamination and Decommissioning (D&D), complete Closure, and continue to monitor groundwater for 30 years.

RM0025 Perform Operational Environmental Monitoring

Provides Health Physics support for environmental surveillance of gaseous and liquid effluents. Environmental monitoring supports the development, administration, reporting and maintenance of activities and events within the 100, 200, 300, 400 and 600 Areas of the Hanford Site in accordance with DOE Orders (5820.2A). Analysis of stack, liquid and ambient air samples is also supported by this activity. Preparation of reports of monitoring results and transmittal of data to Idaho Engineering Laboratory (INEL) are completed within this activity.

RM0030 Perform Seismic Monitoring

Seismic monitoring encompasses operation and maintenance of the seismic monitoring network on the Hanford Site and surrounding portions of Eastern Washington. This activity includes the reporting of all locatable seismic events in the Hanford Network via an annual catalog. It also includes the execution of the contract between the DOE and the University of Washington for the maintenance and operation of the Eastern Washington seismic network.

RM0035 Prepare Annual Data Reports

Data management, verification and evaluation including statistical and trend analysis of results are performed and the results are published quarterly and annually as required. Data is essential for the preparation and continuation of operating permits and closure plans for all RCRA TSD facilities on the Hanford Site. This activity is an annual connector point for many other activities. It is intended to graphically represent the collecting point of numerous annual documents that support permitting operations and characterization.

RM0040 Monitor Groundwater (30 Yrs)

The focus of this activity is to emphasize that Groundwater monitoring will continue to be needed for 30 years after the last TSD facility has completed Operation, D&D and Closure. The end of this activity will determine the need for additional monitoring wells. Groundwater monitoring (sampling and analysis) is required for RCRA regulated TSD facilities at Hanford. This activity also provides operational groundwater monitoring for those facilities which may impact the quality of groundwater but are not regulated by RCRA.

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2D2. Program Schedule Logic Diagram Narrative

RM0045 Decommission Final Wells (7 Yrs)

Decommission wells associated with the final 30 years of groundwater monitoring that started after the last TSD facility completed D&D. Wells are decommissioned per plans approved by WDOE at the rate agreed to, and funded by, DOE.

RM0050 Final Documentation for CA RCRA Wells (W-017H)

This activity supported and coordinated the activities associated with the installation of RCRA compliance Corrective Activities (CA) groundwater monitoring wells installed in association with project "W-017H". These Corrective Activities wells were identified and agreed to in the Tri Party Agreement (TPA). Project "W-017H" started in Fiscal Year (FY) 1989 and completed drilling in FY 1992. Corrective Activities were funded specifically through ADS 7350. The final documentation of wells drilled in FY 1992 was completed in FY 1993. Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B interim status compliance and hence, continue to operate. Well installation is to continue (see activity RM0055) until all operating facilities have monitoring systems that are approved by the regulators.

RM0055 Install Additional RCRA Wells

This activity supports and coordinates the activities associated with the installation of RCRA compliance groundwater monitoring wells being installed in association with project "W-152" (ADS 7340-1). Project "W-152" continues to support TPA milestones and is expected to complete by December 31, 1999. Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B interim status compliance and hence, continue to operate. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Changes in groundwater levels as disposal of water to the soil is reduced will require replacement of wells which go dry. Some wells become unusable for other reasons and must be replaced within this time.

RM0060 M-24-00 Annual RCRA Well Installations

TPA milestone to install WDOE approved Hanford GW Monitoring System.

RM0062 Perform Crib, Ponds & Ditches Monitoring

Surveillance, maintenance, and engineering support is provided for cribs, ponds, and ditches, in the 200 Areas. Included are monitoring of active cribs; pond and crib water-level monitoring; and maintenance. Maintenance includes crib filter changes, dredging control, water flow meters, and measurement instrumentation. This task is essential to the continued use of cribs, ponds, and ditches for water disposal in a safe and effective manner. This activity will continue until the last Crib, Pond, and Ditch is completed with D&D and closed.

RM0064 Install Additional Monitoring Wells

This activity supports and coordinates the tasks associated with the installation of RCRA compliance groundwater monitoring wells being installed after completion of project "W-152". Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B interim status compliance and hence, continue to operate. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Additional well installation may be required to replace existing wells that fail to provide samples when required, or go dry because of changing water table level and other reasons.

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2D3. Program Functional Logic Diagram

RCRA & OPERATIONAL MONITORING LOGIC DIAGRAM

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2D4. Program Functional Logic Diagram Narrative

- The RCRA and Operational Monitoring (ROM) Program is driven by the Washington State Department of Ecology's authority to regulate the Resource Conservation and Recovery Act (RCRA) and the Tri-Party Agreement (DOE, EPA and Ecology). The principal responsibility is groundwater monitoring which includes installation, monitoring and maintaining groundwater monitoring wells around RCRA Treatment, Storage and Disposal (TSD) Facilities and remaining operational facilities.
- The number and location of new groundwater wells is recommended by the Hanford M&O contractor (Westinghouse) and approved by the Department of Energy and the Washington State Department of Ecology. The approved list of new wells are then established as a Tri-Party Agreement Milestone for completion.
- The completed wells are added to the inventory of wells to be maintained by the Environmental Field Services as part of the Well Remediation and Decommissioning activities. Within these activities is the determination of future need for existing wells and the fitness-for-use of those wells under RCRA and Washington Administrative Code (WAC). Those wells that are no longer needed or do not meet regulatory requirement for use will be prioritized for decommissioning. The Draft Hanford Site-Wide Part B Permit contains a requirement for state approval prior to decommissioning of an abandoned well and a time limit for decommissioning after approval. The state has expressed a desire to be involved on a well-by-well basis. There are currently approximately 4000 wells of all varieties on the Hanford Reservation.
- The new wells as completed are added to the groundwater sampling and monitoring schedule to routinely monitor active wells and measure the water level. A Statement of Work is provided to the Hanford Research and Development contractor, Pacific Northwest Laboratory (PNL) to take groundwater samples and have those samples analyzed by an offsite private laboratory. The data is published quarterly by Westinghouse and provided to the Hanford Environmental Information System for a permanent record.
- The Environmental Monitoring activity of the program includes an array of seismic monitors distributed over the eastern portion of the state. The array is operated and maintained in conjunction with the University of Washington to monitor, analyze and report on seismic events. In addition to monitoring the earthquake activity on or near the Hanford Reservation the ROM program also monitors for the spread of surface contamination as well as routinely monitoring and sampling gaseous effluents from RCRA and Operational facilities. The effluent samples are analyzed and evaluated and the results are published in a number of periodic reports.

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Section 3

3. Program Schedule Baseline

3A. FY 1994 Program Milestones

3B. Summary Program Schedule (Master Summary)

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3A. FY 1994 Program Milestones

Milestone			WHC WBS (FY 1993) FY 1994	RL WBS (FY 1993) FY 1994	ADS (FY93) FY94	Milestone Description	Baseline Revision Date	Baseline Authority	Baseline Completion Date	Estimated Completion Percent
Type	Unique ID HQ WBS	{SMS ID} FYP ID PTS ID								
FO	1R43C10H0A94001A 3.7.6.7	{RAC-94-130} 7340-00-0005	(R43C1) R43C1	(1.5.3.1.3) 1.5.3.1.13.01	(7340-0) 7340-0	FY94 Review the groundwater protection management plan (RL 89-12)		Five Year Plan FY94	09/30/94	09/30/94
FO	1R43C20A0193072A 3.7.6.7	{RAC-94-202} 7340-00-0090	(R43C2) R43C2	(1.5.3.1.4) 1.5.3.1.13.02	(7340-0) 7340-0	Issue 2nd Quarter CY93 report for RCRA groundwater monitoring program to state & federal regulators		Five Year Plan FY95	10/31/93	10/31/93
FO	1R43C20A0193073A 3.7.6.7	{RAC-94-203} 7340-00-0095	(R43C2) R43C2	(1.5.3.1.4) 1.5.3.1.13.02	(7340-0) 7340-0	Issue 3rd Quarter CY93 report for RCRA groundwater monitoring program to state & federal regulators		Five Year Plan FY95	01/31/94	01/31/94
FO	1R43C20A0193101A 3.7.6.7	{RAC-94-220} 7340-00-0205	(R43C2) R43C2	(1.5.3.1.4) 1.5.3.1.13.02	(7340-0) 7340-0	Issue CY93 groundwater monitoring report to state & federal regulators		Five Year Plan FY94	03/01/94	03/01/94
FO	1R43C20A0193074A 3.7.6.7	{RAC-94-204} 7340-00-0100	(R43C2) R43C2	(1.5.3.1.4) 1.5.3.1.13.02	(7340-0) 7340-0	Issue 4th Quarter CY93 report for RCRA groundwater monitoring program to state & federal regulators		Five Year Plan FY95	04/30/94	04/30/94
FO	1R43C20A0194071A 3.7.6.7	{RAC-94-211} 7340-00-0105	(R43C2) R43C2	(1.5.3.1.4) 1.5.3.1.13.02	(7340-0) 7340-0	Issue 1st Quarter CY94 report for RCRA groundwater monitoring program to state & federal regulators		Five Year Plan FY95	07/31/94	07/31/94
FO	1R43D1010A9301A 3.7.6.7	{RAD-94-100} 7340-00-0140	(R43D1) R43D1	(1.5.3.1.6) 1.5.3.1.14.01	(7340-0) 7340-0	Issue FY93 well remediation and decommissioning status report to RL		Five Year Plan FY94	12/31/93	12/31/93
FO	1R44BD0A0193001A 3.7.6.7	{RBA-94-240} 7340-00-0530	(R44BD) R43U2	(1.5.3.1.13) 1.5.3.1.21.02	(7340-0) 7340-0	CY93--Transmit effluent information system & onsite discharge information system data to Idaho National Engineering Laboratories		Five Year Plan FY94	03/31/94	03/31/94
FO	1R44BD0A0193002A 3.7.6.7	{RBA-94-260} 7340-00-0050	(R44BD) R43U2	(1.5.3.1.13) 1.5.3.1.21.02	(7340-0) 7340-0	Issue the CY93 annual report on gaseous & liquid effluent discharge		Five Year Plan FY94	07/31/94	07/31/94
FO	1R44BD0A0293030A 3.7.6.7	{RBA-94-250} 7340-00-0535	(R44BD) R43U2	(1.5.3.1.13) 1.5.3.1.21.02	(7340-0) 7340-0	Issue the CY93 report on environmental surveillance to RL		Five Year Plan FY94	07/31/94	07/31/94
RL	1R44DE00009415A 3.7.6.7	{RBA-94-315} 7340-00-0360	(R44DE) R43U3	(1.5.3.1.15) 1.5.3.1.21.03	(7340-0) 7340-0	Provide final draft CY93 annual air emissions from the Hanford Site to RL for HQ		FYWP FY94 Proposed	05/01/94	05/01/94

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3A. FY 1994 Program Milestones

Milestone			WHC WBS (FY 1993) FY 1994	RL WBS (FY 1993) FY 1994	ADS (FY93) FY94	Milestone Description	Baseline Revision Date	Baseline Authority	Baseline Completion Date	Estimated Completion Percent
Type	Unique ID HQ WBS	{SMS ID} FYP ID PTS ID								
FO	1R44DE00009418A 3.7.6.7	{RBA-94-330} 7340-00-0360	(R44DE) R43U3	(1.5.3.1.15) 1.5.3.1.21.03	(7340-0) 7340-0	Issue CY93 annual air emissions report to the EPA		Five Year Plan FY94	06/30/94	06/30/94
FO	1R44BBOA019437A 3.7.6.7	{RBB-94-210} 7340-00-0155	(R44BB) R43V2	(1.5.3.1.11) 1.5.3.1.22.02	(7340-0) 7340-0	Issue the FY93 annual Hanford network catalog of seismic events		Five Year Plan FY95	12/31/93	12/31/93
TPA	3R43G3.93M2400EA 3.7.6.8	{RAG-94-305} 7340-1-0085 7340-01-1080	(R43G3) R42G3	(1.5.3.2.3) 1.5.3.2.17.13	(7340-01) 7340-01	M-24-00E, Install up to 50 RCRA groundwater monitoring wells in CY93 (if required)		FYWP FY92 Baseline	12/31/93	12/31/93
TPA	3R43G3.93M2430EA 3.7.6.8	{RAG-94-330} 7340-01-0015 7340-01-1353	(R43G3) R42G3	(1.5.3.2.3) 1.5.3.2.17.13	(7340-01) 7340-01	M-24-30 Install 2 more RCRA wells around 1325-N Crib	08/03/93	FYWP-M-24-92-1 M-24-93-1	12/31/93	04/24/93 100 %
TPA	3R43G3.93M2431EA 3.7.6.8	{RAG-94-331} 7340-01-0020 7340-01-1354	(R43G3) R42G3	(1.5.3.2.3) 1.5.3.2.17.13	(7340-01) 7340-01	M-24-31 Install 2 more RCRA wells by Low Level Burial Grounds (81 total)		FYWP-M-24-92-1	12/31/93	12/31/93
TPA	3R43G3.93M2432EA 3.7.6.8	{RAG-94-332} 7340-01-0025 7340-01-1355	(R43G3) R42G3	(1.5.3.2.3) 1.5.3.2.17.13	(7340-01) 7340-01	M-24-32 Install 3 more RCRA wells by Grout Test Facilities (13 total)		FYWP-M-24-92-1	12/31/93	11/08/93 100%

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Section 4

4. Program Cost Baseline

4A. Cost Baseline

- 4A1. Cost Baseline Summary/Program Element - Operating Expense**
- 4A2. Program Summary/Cost Element - Operating Expense**
- 4A3. Program Element/Cost Element Summary - Operating Expense**
- 4A4. Cost Baseline Summary - ADS/Fund Type**
- 4A5. Cost Baseline Summary - CENRTC**
- 4A6. Cost Baseline Summary - GPP**
- 4A7. Cost Baseline Summary - Line Item**

4B. Program Funding Requirement

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4.A.1 COST BASELINE SUMMARY /				PROGRAM ELEMENT - OPERATING EXPENSE												(\$ IN 000)
PL WBS	WBS TITLE	ADS NUMBER	ADS TITLE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	1,441	1,459	1,944	2,219	2,007	2,030	2,157	2,430	2,198	2,324	2,075	3,120	25,392
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	84	83	84	112	89	87	81	88	77	78	75	82	1,039
TOTAL				1,525	1,542	2,028	2,331	2,096	2,127	2,238	2,528	2,283	2,400	2,150	3,202	26,430

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4.A.2 PROGRAM SUMMARY / COST ELEMENT - OPERATING EXPENSE (\$ IN 000)

<u>COST ELEMENT</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>TOTAL</u>
0 - Labor	701	647	642	820	690	722	738	881	693	780	676	841	8,831
1 - Materials	43	59	88	71	101	73	69	65	94	100	48	110	822
2 - Purchased Services	61	82	135	134	151	166	165	217	236	254	279	584	2,484
3 - Other Contractors	159	207	559	566	575	588	590	570	583	576	576	599	6,138
4 - Site Services	31	35	43	39	41	42	46	45	47	65	48	94	576
5 - Internal Charges	(26)	(26)	(29)	(28)	(26)	(33)	(38)	(31)	(32)	(34)	(26)	(58)	(384)
6 - IRM	23	25	24	31	33	26	46	24	31	28	26	41	358
7 - Departmental Overhead	217	197	197	254	213	223	228	274	214	241	207	258	2,723
8 - G&A / CSP	316	316	369	444	317	320	404	483	397	390	315	731	4,802
TOTAL	1,525	1,542	2,028	2,331	2,096	2,127	2,238	2,528	2,263	2,400	2,150	3,202	26,430

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4.A.3 PROGRAM ELEMENT / COST ELEMENT SUMMARY - OPERATING EXPENSE

(\$ IN 000)

PL WBS	WBS TITLE	COST ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1.5.3.1	RCRA & OPERATIONAL MONITORING	0 - Labor	665	617	614	780	656	686	704	838	662	749	660	807	8,428
		1 - Materials	41	57	86	88	99	71	68	61	80	86	44	168	888
		2 - Purchased Services	80	81	134	133	150	165	164	214	235	253	278	583	2,480
		3 - Other Contractors	153	200	549	557	547	578	572	563	575	568	567	589	6,038
		4 - Site Services	23	28	34	31	34	35	40	39	41	59	39	89	482
		5 - Internal Charges	(26)	(26)	(29)	(29)	(25)	(33)	(38)	(31)	(32)	(34)	(28)	(58)	(384)
		6 - IFM	22	23	22	30	31	23	44	22	29	26	24	39	335
		7 - Department Overhead	203	188	186	239	200	208	215	298	202	229	197	245	2,568
		8 - G&A / CSP	300	282	348	408	295	296	391	466	384	377	302	717	4,578
		SUBTOTAL	1,441	1,458	1,944	2,219	2,007	2,030	2,188	2,430	2,186	2,324	2,075	3,119	25,382
1.5.3.2	RCRA GW WELL INSTALLATION	0 - Labor	38	30	28	40	34	38	34	43	31	31	26	34	403
		1 - Materials	2	2	2	3	2	2	3	4	4	4	8	4	27
		2 - Purchased Services	.5	.5	.8	.5	.5	.9	.5	2.5	.9	.5	.5	.9	10
		3 - Other Contractors	5.8	7.4	8.5	8.5	7.5	8.5	7.5	6.5	7.8	6.8	6.5	6.5	84
		4 - Site Services	7.8	7	9	7.9	6.5	7.4	6.2	6.2	6.2	6.2	9.2	5.2	86
		5 - Internal Charges	0	0	0	0	0	0	0	0	0	0	0	0	0
		6 - IFM	1.2	2.4	2.1	1.4	1.6	2.7	1.8	2	2.3	1.9	1.8	2.4	24
		7 - Department Overhead	13.8	11.4	10.9	15.3	12.8	13.6	12.9	18	11.7	12.1	16	13	184
		8 - G&A / CSP	17	22	22	35	24	25	15	17	12	14	14	13	231
		SUBTOTAL	84	82	84	112	89	87	81	87	77	78	73	82	1,038
TOTAL			1,525	1,542	2,028	2,331	2,096	2,127	2,230	2,527	2,263	2,400	2,148	3,201	26,420

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4.A.4 COST BASELINE SUMMARY - ADS/FUND TYPE

(\$ IN 000)

PL WBS	WBS TITLE	ADS NUMBER	ADS TITLE	OPERATING EXPENSE		CEMTC		GPP		LINE ITEM		TOTAL
				FY94 BA	FY93 CARRYOVER	FY94 BA	FY93 CARRYOVER	FY94 BA	FY93 CARRYOVER	FY94 BA	FY93 CARRYOVER	
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	24,142	1290	4,915	1122	0	0	0	0	31,439
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	0	1038	0	0	0	0	0	7488	8,523
1.5.3.3	RCRA GW WELL CORRECTIVE ACTION	7350-00	RCRA CORRECTIVE ACTIONS	0	0	0	180	0	0	0	0	180
TOTAL				24,142	2,298	4,915	1,282	0	0	0	7,488	40,112

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4.A.5 COST BASELINE SUMMARY - CENRTC

(\$ IN 000)

<u>RL</u> <u>WBS</u>	<u>WBS</u> <u>TITLE</u>	<u>ADS</u> <u>NUMBER</u>	<u>ADS</u> <u>TITLE</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>TOTAL</u>
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	1132	440	440	450	440	440	450	440	440	450	440	455	6,047
1.5.3.2	RCRA GW WELL INSTALLATION	7350-00	RCRA GW WELL INSTALLATION	0	0	150	0	0	0	0	0	0	0	0	0	150
TOTAL				1,132	440	590	450	440	440	450	440	440	450	440	455	6,197

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4.A.6 COST BASELINE SUMMARY - GPP

(\$ IN 000)

<u>PL</u> <u>WBS</u>	<u>WBS</u> <u>TITLE</u>	<u>ADS</u> <u>NUMBER</u>	<u>ADS</u> <u>TITLE</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>TOTAL</u>
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL				0	0	0	0	0	0	0	0	0	0	0	0	0

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4.A.7 COST BASELINE SUMMARY - LINE ITEM																(\$ IN 000)
RL WBS	WBS TITLE	ADS NUMBER	ADS TITLE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	0	0	0	0	0	0	0	0	0	0	0	0	0.0
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	276.9	282.6	282.7	282.7	282.7	282.6	282.6	282.6	282.6	282.6	282.6	282.6	3,386.8
TOTAL				276.9	282.6	282.7	282.7	282.7	282.6	282.6	282.6	282.6	282.6	282.6	282.6	3,386.8

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4.B PROGRAM FUNDING																	(\$ IN 000)
RL WBS	WBS TITLE	ADS NUMBER	ADS TITLE	FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
APPROVED FUNDING																	
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	OE	1,441	1,459	1,944	2,219	2,007	2,030	2,187	2,430	2,187	2,324	2,075	3,119	25,382.0
				CE	1,132	440	440	450	440	440	480	440	440	450	440	480	6,047.0
				GPP	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				U	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				SUBTOTAL	2,573.0	1,899.0	2,384.0	2,669.0	2,447.0	2,470.0	2,607.0	2,870.0	2,627.0	2,774.0	2,515.0	3,604.0	31,438.0
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	OE	84	83	84	112	89	97	81	98	77	76	75	82	1,038.0
				CE	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				GPP	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				U	276.0	282.6	282.7	282.7	282.7	282.8	282.8	282.8	282.8	282.8	282.8	282.8	2,399.8
				SUBTOTAL	360.8	365.6	366.7	394.7	371.7	379.6	363.6	380.6	359.6	358.6	357.6	364.6	4,423.8
1.5.3.3	CORRECTIVE ACTIVITIES	7350-00	CORRECTIVE ACTIVITIES	OE	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				CE	0	0	100	0	0	0	0	0	0	0	0	0	100.0
				GPP	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				U	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				SUBTOTAL	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
APPROVED FUNDING TOTAL					2,933.8	2,264.6	2,800.7	3,063.7	2,818.7	2,849.6	2,970.6	3,250.6	2,986.6	3,132.6	2,872.6	36,912.8	

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4.B PROGRAM FUNDING																	(\$ IN 000)	
RL WBS	WBS TITLE	ADS NUMBER	ADS TITLE	FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
UNFUNDED WORKSCOPE																		
1.5.3.1	RCRA & OPERATIONAL MONITORING	7340-0	RCRA & OPERATIONAL MONITORING	OE	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				CE	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				GPP	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				U	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				SUBTOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.5.3.2	RCRA GW WELL INSTALLATION	7340-1	RCRA GW WELL INSTALLATION	OE	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				CE	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				(LI-W-152 to be funded by ADS 7340-1 carryover)	GPP	0	0	0	0	0	0	0	0	0	0	0	0	0.0
				U	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
				SUBTOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
UNFUNDED WORKSCOPE TOTAL					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
PROGRAM REQUIREMENTS TOTAL					2,933.9	2,264.6	2,900.7	3,063.7	2,818.7	2,949.6	2,970.6	3,290.6	2,986.6	3,132.6	2,872.6	3,968.6	36,612.6	

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Section 5

5. Program Manpower

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5. PROGRAM MANPOWER (FTE)												
PROGRAM ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1.5.3.1 RCRA & OPERATIONAL MONITORING	139.7	145.5	146.9	146.3	146.2	145.0	144.9	144.1	146.0	145.2	145.3	143.6
1.5.3.2 RCRA GW WELL INSTALLATION	3.7	3.7	3.7	3.5	3.6	3.6	3.5	2.8	3.2	2.4	2.5	2.4
TOTAL	143.4	149.2	150.6	149.8	149.8	148.6	148.4	146.9	149.2	147.6	147.8	146.0

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SECTION 6

6. Program Workscope Carryover Summary

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6. FY93 PROGRAM CARRYOVER SUMMARY

<u>WBS#</u>	<u>ADS#</u>	<u>MILESTONE/SCOPE DESCRIPTION</u>	<u>DRIVERS (e.g. TPA, DOE ORDER, COMPLIANCE, CONTROLLED MILESTONE)</u>	<u>FY94 FUNDING REQUIRED</u>	<u>FY93 FUNDING AVAILABLE</u>
1.5.3.1	7340-0	Supplement shortfall for groundwater monitoring.	RCRA groundwater monitoring and Washington Administrative Code.	\$0.50M	\$0.50M
		Vadose zone monitoring.	Draft EPA regulation for Vadose monitoring at RCRA facilities.	\$0.25M	\$0.25M
		Support additional administrative and reporting requirements and an anticipated 40% increase for contracted analytical services for groundwater samples.	Sample analysis of groundwater is required to be performed by EPA approved laboratory. Analytical charges are a function of the contract between the performing lab and the contract administrator (Pacific Northwest Laboratory). Rate increases are a pass through from the contract administrator to the operating program	\$0.50M	\$0.50M
1.5.3.2	7340-1	The Tri-Party Agreement requires Hanford to drill up to 50 RCRA groundwater monitoring wells per calendar year. Carryover is essential to complete drilling in CY-93 and continue to support the CY-94 milestone.	These expense funds are essential to the support of TPA Milestones M-24-00E and M-24-00F. Without this carryover funding the ability to provide additional RCRA Monitoring Wells , as required by TPA, will not be available.	\$1.04M	\$0.36M \$0.68M from FY 1992
1.5.3.3	7350-0	Corrective Activities	NOT APPLICABLE - Work completed in FY-1993. No plans to capture remaining FY 1993 Expense Funds.	-0-	\$0.03M

Note: This table addresses Expense Funds only.

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Section 7

7. Appendix

- 7A. FY 1994 WBS Dictionary Sheets**
- 7B. FY 1994 Cost Account Authorizations**
- 7C. FY 1994 Milestone Description Sheets**
- 7D. Program Element Schedule (Master Operating)**
- 7E. Activity Schedule (Cost Account Schedule)**
- 7F. Basis of Estimate (BOE)**
- 7G. Detailed Costs**
- 7H. Full Time Equivalent Staff by Job Classification**

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7. APPENDICES

- A. PROGRAM WBS DICTIONARY SHEETS**
- B. PROGRAM COST ACCOUNT AUTHORIZATIONS (CAA)**
- C. PROGRAM MILESTONE DESCRIPTION SHEETS**
- D. PROGRAM ELEMENT SCHEDULE**
- E. ACTIVITY SCHEDULE**
- F. BASIS OF ESTIMATES**
- G. DETAILED COSTS**
- H. FTE STAFFING BY JOB CLASSIFICATION**

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Appendix Section 7A

7A. FY 1994 WBS Dictionary Sheets

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7A. WBS Dictionary

WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1		5. WBS ELEMENT TITLE RCRA and Operational Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100 35EW3120A	
12. ELEMENT TASK DESCRIPTION			
<p>OBJECTIVE:</p> <p>The objective of this End Function is to monitor and maintain groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities and the remaining operational facilities on the Hanford site. Perform surveillance of land surface, and liquid and gaseous effluents in the 200 and 600 Areas to identify and limit the spread of surface contamination or unintentional releases and maintain the areas safe for personnel entry. Periodically maintain the surveillance equipment and procedures as required.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This End Function is represented by Activity Data Sheet (ADS) 7340-0 and encompasses activities for RCRA and Operational Monitoring outside the purview of active or standby facilities. The activities which comprise this scope are summarized in the work statement below and detailed in the individual WBS Dictionary sheet for the associated activity.</p> <p>C. Work Statement</p> <p>Specific support includes:</p> <p>AA - PROGRAM MANAGEMENT - This Activity provides management for the RCRA and Operational Groundwater Monitoring Programs and RCRA Groundwater Well installations. Response and interaction with the DOE, regulatory agencies, and associated budget reviews and procurement of new and/or replacement capital equipment is also supported.</p> <p>AC - GROUNDWATER MONITORING - This Activity consolidates support for groundwater monitoring sampling and purgeway disposal activities associated with the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities and the remaining operational facilities at Hanford site.</p> <p>AD - GROUNDWATER WELL MAINTENANCE AND DECOMMISSIONING - The well remediation / decommissioning objective of this Activity is to coordinate and perform activities associated with the remediation, upgrading and decommissioning of groundwater monitoring wells and vadose wells, on the Hanford Site. The well maintenance objective includes performing routine and non-routine maintenance on groundwater/vadose monitoring and observation wells on the Hanford Site.</p> <p>AZ - MONITOR AND ASSESS BASINS - The objective of this Activity is to monitor and assess liquid effluent irradiated fuel storage basins, both active and inactive, located in the 100 and 300 Areas which are adjacent to the Columbia River and contain hazardous and/or radioactive liquids. This assessment is to evaluate the potential for impact to the groundwater and ultimately the Columbia River.</p> <p>BA - EFFLUENT MONITORING - The objective of this Activity is to develop, administer, maintain and report on environmental monitoring and surveillance efforts in the 200 and 600 areas of the Hanford Site. The results of this activity are intended to prevent near-term adverse impacts to workers, the public and the environment. Effluent samplers and ambient air monitors are maintained, routine sampling of soil, vegetation, and surface water is conducted and National Emission Standards for Hazardous Air Pollutants (NESHAPS) compliance issues are addressed.</p> <p>BB - ENVIRONMENTAL MONITORING - The objective of this Activity is to ensure the cribs, ponds and ditches which receive waste water are maintained and monitored. Air and water surveys, of stabilized sites, are performed to monitor and quantify radioactive contamination; spread and initiate vadose zone (subsurface and above the water table) monitoring. Continuous operation, monitoring, analysis and reporting of the Hanford seismic network and University of Washington - Eastern Washington seismic network produces information that would otherwise not be available.</p>			

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7A. WBS Dictionary

WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.11	5. WBS ELEMENT TITLE Program Management	
6. CONTRACTOR WBS ELEMENT CODE: 1R43A	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100 35EW3120A	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this activity is to provide management for the RCRA and Operational Groundwater Monitoring Programs and RCRA Groundwater Well installations. Response and interaction with the DOE, regulatory agencies, and other programs is a daily routine. Associated budget reviews and procurement of replacement capital equipment is also supported.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs. All CENRTC costs are controlled by this activity.</p> <p>B. Technical Content</p> <p>This activity monitors and maintains groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Performs surveillance of land surface and liquid and gaseous effluents in the 200 and 800 Areas to identify and limit the spread of surface contamination or unintentional releases and maintain the areas safe for personnel entry. Periodically maintains the surveillance equipment and upgrades procedures as required.</p> <p>C. Work Statement</p> <p>Specific support includes:</p> <ol style="list-style-type: none"> (1) Program Management and Groundwater Support - provides management for the RCRA and operational monitoring programs and RCRA well installation; (2) Well Sampling and Analysis - includes preparation and supervision of yearly statement of work for PNL which physically gathers samples, arranges for their analysis and subsequent management of data; (3) Well Maintenance and Remediation - includes repairs, cleaning and inspections to keep wells in condition so they can be sampled; (4) Purgewater Disposal - includes collection, transportation, storage and analysis of groundwater monitoring purgewater; (5) Groundwater Management Protection Plan Program - this activity implements and updates the Groundwater Protection Management Plan required by DOE Orders; (6) Surveillance and Maintenance - performs and reports the results of activities necessary to prevent near-term adverse impacts to workers, the public and the environment. Cries, ponds and ditches which receive waste water are maintained and monitored. The development, administration, reporting and maintenance of environmental surveillance activities including analysis of environmental samples are supported in this activity. Effluent samplers and air monitors are maintained to keep them functional. The Hanford seismic network is operated and maintained by this activity. Renewal and purchase of new capital equipment for all RCRA and Operational Monitoring is supported in this activity; and (7) Air Permitting Compliance - funds annual air emissions reporting and the purchase of necessary equipment to reach compliance with the Clean Air Act for selected facilities. 		

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7A. WBS Dictionary

WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.11.01		5. WBS ELEMENT TITLE Program Management	
6. CONTRACTOR WBS ELEMENT CODE: 1R43A1		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>OBJECTIVE:</p> <p>The objective of this Cost Account is to provide program management for the Resource Conservation and Recovery Act (RCRA) & Operational Monitoring Program Office (ROM) on the Hanford site. The ROM Program Office oversees the programmatic responsibilities for two Activity Data Sheets (ADS). ADS 7340-0 is an End Function that supports the overall needs of RCRA & Operational Monitoring for the Hanford Site. ADS 7340-1 is an End Function that coordinates the projects department effort to install additional RCRA GW Monitoring wells as required by TPA agreements with regulatory agencies.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs. All CENRTC costs are controlled by this account.</p> <p>B. Technical Content</p> <p>This Cost Account is administrative in nature and provides programmatic and management control of the following technically oriented efforts:</p> <ul style="list-style-type: none"> • Monitor and maintain groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. • Perform surveillance of land surface and liquid and gaseous effluents in the 200 and 600 Areas to identify and limit the spread of surface contamination or unintentional releases and maintain the areas safe for personnel entry. • Provide for periodic maintenance and upgrading of the surveillance equipment and procedures as required. <p>C. Work Statement</p> <p><u>RCRA and Operational Monitoring Program Management activities include but are not limited to:</u></p> <ul style="list-style-type: none"> • Budget baseline preparation and annual budget submittal preparation. • Implementation and approval of change control. • Monthly reporting and presentation preparation. • Program integration, cost and schedule monitoring and control. • Long-range planning and administration of the Management Control policies and procedures. <p>This cost account and its supporting personnel will be the focal point for the programmatic interface with:</p> <ul style="list-style-type: none"> • Westinghouse organizations and programs as well as other contractors and the Department of Energy. • Federal, state and local regulatory agencies as necessary in support of the RCRA and Operational Monitoring activities. <p>Program management activity is expected to continue at a fairly constant level of activity until RCRA and Operational Monitoring is no longer required. Current law requires groundwater monitoring to continue for 30 years after closure of treatment, storage and disposal facilities. This would continue until at least the year 2070 under current schedules.</p>			

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7A. WBS Dictionary

WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.11.300	5. WBS ELEMENT TITLE FY93 CENRTC Accounts (generic form)	
6. CONTRACTOR WBS ELEMENT CODE: 2R433. (A thru Z)	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER 35EW3120A	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to procure capital equipment to assist in monitoring and maintaining groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. This equipment will support surveillance of land surface, liquid and gaseous effluents in the 200 and 600 Areas. This surveillance is required to identify and limit the spread of surface contamination, or unintentional releases, and maintain the areas safe for personnel entry. Periodic upgrade of surveillance equipment will be required.

A. Cost Content

Cost content includes the following cost types: labor, organizational overhead, materials, and equipment.

B. Technical Content

Capital Cost Accounts for monitoring equipment are required in support of Inter-Agency Agreements (IAG) such as The Resource Conservation and Recovery Act (RCRA), Clean Water Act (CWA), Clean Air Act (CAA), Tri-Party Agreements (TPA) and other regulatory drivers.

C. Work Statement

Specific support includes upgrading and purchasing new capital equipment for all RCRA and operational monitoring activities. Various geophysical logging, laboratory and surveillance equipment will be procured to support monitoring groundwater monitoring wells around the RCRA Treatment, Storage and Disposal Facilities, operational facilities on the Hanford Site, and surveillance of land surface, liquid, and gaseous effluents in the 200 and 600 areas.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.11.400	5. WBS ELEMENT TITLE FY94 CENRTC Accounts (generic form)	
6. CONTRACTOR WBS ELEMENT CODE: 2R434. (A thru Z)	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER 35EW3120A	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this Cost Account is to procure capital equipment to assist in monitoring and maintaining groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. This equipment will support surveillance of land surface, liquid and gaseous effluents in the 200 and 600 Areas. This surveillance is required to identify and limit the spread of surface contamination, or unintentional releases, and maintain the areas safe for personnel entry. Periodic upgrade of surveillance equipment will be required.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, organizational overhead, materials, and equipment.</p> <p>B. Technical Content</p> <p>Capital Cost Accounts for monitoring equipment are required in support of Inter-Agency Agreements (IAG) such as The Resource Conservation and Recovery Act (RCRA), Clean Water Act (CWA), Clean Air Act (CAA), Tri-Party Agreements (TPA) and other regulatory drivers.</p> <p>C. Work Statement</p> <p>Specific support includes upgrading and purchasing new capital equipment for all RCRA and operational monitoring activities. Various geophysical logging, laboratory and surveillance equipment will be procured to support monitoring groundwater monitoring wells around the RCRA Treatment, Storage and Disposal Facilities, operational facilities on the Hanford Site, and surveillance of land surface, liquid, and gaseous effluents in the 200 and 600 areas.</p>		

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13	5. WBS ELEMENT TITLE Groundwater Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES

10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100
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12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

This Activity consolidates support for groundwater monitoring sampling, analysis, and reporting and associated purgewater collection, transportation, storage, and disposal associated with the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal (TSD) Facilities and the remaining operational facilities at Hanford site.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Activity coordinates efforts associated with groundwater monitoring at operational waste sites and Resource Conservation and Recovery Act (RCRA) regulated Treatment, Storage, and Disposal facilities in compliance with WAC-173-303, 40 CFR 265, and DOE Order 5400.1.

C. Work Statement

Specific support includes:

- (1) Well Sampling and Analysis - includes preparation and supervision of yearly statement of work to Pacific Northwest Laboratories (PNL) for physically gathering samples, arranges for their analysis and subsequent management of data. It also implements and updates the Groundwater Protection Management Plan required by DOE Orders.
- (2) RCRA Reporting - provides RCRA Program Data Management.
- (3) RCRA Project Scientist - provides direct Geoscience support for groundwater monitoring wells.
- (4) Groundwater Support - provides Geoscience administrative support for the RCRA and Operational Monitoring Programs related work scope.
- (5) Purgewater Disposal - includes collection, transportation, storage and analysis of purgewater generated by groundwater sampling and drilling of groundwater monitoring wells.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13.01	5. WBS ELEMENT TITLE Well Sampling & Analysis	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C1	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES

10. SYSTEM DESIGN DESCRIPTION

NUMBER:
TITLE:

11. BUDGET AND REPORTING NUMBER

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12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to provide technical expertise for the groundwater monitoring program, coordinate the overall sampling and analysis process, and upgrade groundwater monitoring procedures as required.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Cost Account coordinates activities associated with groundwater monitoring at operational waste sites and RCRA regulated facilities in compliance with WAC-173-303-845, 40 CFR 265, and DOE Order 5400.1.

C. Work Statement

Activities include but are not limited to:

- Collect and analyze samples per approved procedures.
- Provide review and evaluation of analyses.
- Provide statistical and trend analysis of sample results.
- Provide QC data evaluation for regulatory reporting.

Actual chemical analyses are performed by a subcontracted, RCRA compliant laboratory. Other aspects of this activity are performed by PNL. Proposals for transfer of the sampling activity are in preparation and are expected to provide improved control over the activity and substantial cost savings.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13.02	5. WBS ELEMENT TITLE RCRA Reporting	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C2	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES

10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100
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12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to coordinate activities associated with data management in support of RCRA quarterly and annual reports.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Cost Account provides the technical expertise to insure the sample data management and reporting requirements of the Resource Conservation and Recovery Act (RCRA) and DOE Order 5400.1 are met.

C. Work Statement

Activities include but are not limited to:

- Prepare quarterly reports for RCRA groundwater monitoring in fulfillment of RCRA interim status recordkeeping and reporting requirements (40 CFR 265.94)
- Initiate testing of technology for automated data collection for groundwater monitoring.
- Provide groundwater database management and support for RCRA and other groundwater activities as required.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13.03	5. WBS ELEMENT TITLE RCRA Project Scientist	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C3	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: The objective of this Cost Account is to coordinate activities and provide technical management of groundwater monitoring activities at RCRA facilities (including solid waste landfills). A. Cost Content Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and communication costs. B. Technical Content This Cost Account ensures compliance with state and federal regulation (WAC-173-303, 40 CFR 265), DOE orders (5400.1), TPA and Compliance Orders. C. Work Statement <u>Activities include but are not limited to:</u> <ul style="list-style-type: none"> • Provide Project W-152 technical support, and coordination for RCRA Groundwater Monitoring around 21 TSD facilities. • Prepare and/or revise site specific groundwater monitoring plans, analysis of results, characterization reports and presentations to support RCRA groundwater monitoring. • Prepare and/or revise Project Management Plan (PMP) and Quality Assurance Project Plan (QAPP). • Provide expertise on aquifer testing methodology • Provide expertise to support permitting activities as needed • Prepare RCRA Groundwater assessment Plans/Reports as determined from statistical evaluations. • Conduct engineering studies to support RCRA groundwater monitoring activities. • Provide additional milestones as necessary prior to authorizing next year's CAA. 		

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13.05	5. WBS ELEMENT TITLE Groundwater Support	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C5	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to provide administrative support to Geoscience work funded by the RCRA and Operational Monitoring Program.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Cost Account is responsive to the requirements of WHC procedures and regulations for management control systems (MCS) reporting. It is also compliant with the Hanford Financial Data System (FDS) requirements.

C. Work Statement

Activities include, but are not limited to:

- Provide monthly report input to the Management Control System (MCS), SMS, PTS and DOE-HQ/DOE-RL inquiries as required.
- Provide current and outyear budget planning/scheduling, prioritization and other exercises as directed by DOE and WHC.
- Provide responses to QA audits, surveillance, appraisals, etc as required.
- Provide monthly report describing QA status.
- Provide monthly MCS status information for Geosciences RCRA Cost Accounts.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.13.06	5. WBS ELEMENT TITLE Purgewater Disposal	
6. CONTRACTOR WBS ELEMENT CODE: 1R43C6	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this Cost Account is to provide funds for the work associated with the collection, transportation, storage and analysis of groundwater monitoring well purgewater.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This Cost Account collects, monitors and disposes of groundwater monitoring well purge water in accordance with the regulations set forth in the Resource Conservation and Recovery Act (RCRA) and the Clean Water Act (CWA).</p> <p>C. Work Statement</p> <p><u>Required activities include, but are not limited to:</u></p> <ul style="list-style-type: none"> • Engineering support to purgewater activities. Ensure that purgewater trucks are in compliance with current applicable DOT standards. Maintain tracking of purgewater movement. • Provide geosciences support to purgewater activities. Update list of wells required for collection, within the strategy document, upon receipt of sampling data supplied by PNL. Provide sampling, packaging and transportation services as required for purgewater. • Provide Environmental Field Services (EFS) support for purgewater activities. • Operate Purgewater Storage Facility. Perform daily and weekly inspection practices to ensure containment within the tanks. • Provide for vehicle maintenance services and personnel to transport purgewater from wells to the storage facility. Remove tumble weeds and spray the area surrounding the ModuTanks with herbicide. • Provide analytical support for sampling and data interpretation of purgewater samples. • Provide Engineering support to include purgewater in influent stream of Waste Water Treatment Facility. 		

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.14		5. WBS ELEMENT TITLE Groundwater Well Maintenance & Decommissioning	
6. CONTRACTOR WBS ELEMENT CODE: 1R43D		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION			
<p>OBJECTIVE:</p> <p>The well remediation / decommissioning objective of this Activity is to coordinate and perform activities associated with the remediation, upgrading and decommissioning of groundwater monitoring wells and vadose wells, on the Hanford Site. The well maintenance objective includes performing routine and non-routine maintenance on groundwater/vadose monitoring and observation wells on the Hanford Site.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This Activity maintains groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Remediation activities enable wells to conform to "fitness for use" requirement or result in closure of non-compliant wells in accordance with State and Federal requirements. All work is to be performed in accordance with all applicable safety, QA, engineering, environmental and regulatory requirements.</p> <p>C. Work Statement</p> <ul style="list-style-type: none"> • <u>Well Remediation / Decommissioning Activities include but are not limited to:</u> <ul style="list-style-type: none"> • Development, revision and issuance of a Well Remediation/Decommissioning Management Plan. • Perform a survey of groundwater monitoring wells. • Evaluation of well construction and characterization data. • Implementation of remediation/decommissioning specifications and procedures. • Prepare long-range schedule implementation of activities. • Provide management and technical direction of field activities. • Prepare annual report of activities including accomplishments, work in-process and planned work/schedule for the coming year. • Wells identified as requiring remediation will be evaluated and dispositioned based on the RCRA priorities of the facilities. • <u>Well Maintenance Activities include, but are not limited to :</u> <ul style="list-style-type: none"> • Pump removal, repair and installation. • Well development, bailing and removal of obstructions within the well which effect the well structure. • Borehole video camera inspections. • Repair to surface components of the well. • Activities are in support of hydrologic data gathering mandated by State and Federal regulations and to upgrade facilities (wells) to comply with WAC standards. 			

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.14.01	5. WBS ELEMENT TITLE Groundwater Well Maintenance & Decommissioning	
6. CONTRACTOR WBS ELEMENT CODE: 1RA3D1	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES

10. SYSTEM DESIGN DESCRIPTION

NUMBER:
TITLE:

11. BUDGET AND REPORTING NUMBER

EW3120100

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The well remediation / decommissioning objective of this Cost Account is to coordinate and perform activities associated with the remediation, upgrading and decommissioning of groundwater monitoring wells and vadose wells, on the Hanford Site. The well maintenance objective includes performing routine and non-routine maintenance on groundwater/vadose monitoring and observation wells on the Hanford Site.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Cost Account maintains groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Remediation activities enable wells to conform to "fitness for use" requirement or result in closure of non-compliant wells in accordance with State and Federal requirements. All work is to be performed in accordance with all applicable safety, QA, engineering, environmental and regulatory requirements.

C. Work Statement

• Well Remediation / Decommissioning Activities include but are not limited to:

- Development, revision and issuance of a Well Remediation/Decommissioning Management Plan.
- Perform a survey of groundwater monitoring wells.
- Evaluation of well construction and characterization data.
- Implementation of remediation/decommissioning specifications and procedures.
- Prepare long-range schedule implementation of activities.
- Provide management and technical direction of field activities.
- Prepare annual report of activities including accomplishments, work in-process and planned work/schedule for the coming year.

• Wells identified as requiring remediation will be evaluated and dispositioned based on the RCRA priorities of the facilities.

• Well Maintenance Activities include, but are not limited to :

- Pump removal, repair and installation.
- Well development, bailing and removal of obstructions within the well which affect the well structure.
- Borehole video camera inspections.
- Repair to surface components of the well.
- Performing routine and non-routine maintenance on groundwater/vadose monitoring and observation wells in the 100, 200, 300, 400, and 600 Areas.
- Activities are in support of hydrologic data gathering mandated by State and Federal regulations and to upgrade facilities (wells) to comply with WAC standards.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.19	5. WBS ELEMENT TITLE Monitor & Assess Basins	
6. CONTRACTOR WBS ELEMENT CODE: 1R43Z	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES**10. SYSTEM DESIGN DESCRIPTION**NUMBER:
TITLE:**11. BUDGET AND REPORTING NUMBER**

EW3120100

12. ELEMENT TASK DESCRIPTION**OBJECTIVE:** (Scope is not currently approved therefore it is not funded).

The objective of this Activity is to monitor and assess large liquid effluent storage basins, both active and inactive, located in the 100 and 300 Areas which are adjacent to the Columbia River and contain hazardous and/or radioactive liquids. This assessment is to evaluate the potential for impact to the groundwater and ultimately the Columbia River.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Activity is responsive to Federal regulations found in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (40 CFR 300-399), Safe Drinking Water Act (40 CFR 144-149), Uranium Mill Tailings Radiation Control Act (40 CFR 192), Clean Water Act (40 CFR 122-130). It is also responsive to DOE Orders 5400.1 "General Environmental Protection Program", 5480.1B "Environment, Safety and Health Program for DOE Operations", and 5820.2A "Radioactive Waste Management".

C. Work Statement

Activities include but are not limited to:

- Evaluation of basin facilities along the Columbia River to determine which of these facilities contain hazardous and/or Radioactive liquids capable of impacting groundwater or river water.
- Evaluation of existing groundwater composition data for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. The purpose of the evaluation is to determine whether that facility has already impacted the aquifer.
- Preparation of characterization reports for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. These reports will contain the geologic and hydrologic information necessary to design a site specific groundwater monitoring plan.
- Preparation of a schedule to have necessary, site-specific, groundwater monitoring plans in place.
- Preparation of site-specific groundwater monitoring plans for those facilities deemed capable of impacting groundwater or river water.
- Sampling and analysis of groundwater to monitor for facility impact on the environment. Annual reporting of sampling and analysis results.
- Installation of new groundwater monitoring wells at needed locations such that each facility has a minimum acceptable monitoring well network.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.19.01	5. WBS ELEMENT TITLE Monitor & Assess Liquid Effluent	
6. CONTRACTOR WBS ELEMENT CODE: 1R4321	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION <p>OBJECTIVE: (Scope is not currently approved therefore it is not funded).</p> <p>The objective of this Cost Account is to monitor and assess large liquid effluent storage basins, both active and inactive, located in the 100 and 300 Areas which are adjacent to the Columbia River and contain hazardous and/or radioactive liquids. This assessment is to evaluate the potential for impact to the groundwater and ultimately the Columbia River.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This cost account is responsive to Federal regulations found in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (40 CFR 300-399), Safe Drinking Water Act (40 CFR 144-149), Uranium Mills Tailings Radiation Control Act (40 CFR 192), Clean Water Act (40 CFR 122-130). It is also responsive to DOE Orders 5400.1 "General Environmental Protection Program", 5480.1B "Environment, Safety and Health Program for DOE Operations", and 5820.2A "Radioactive Waste Management".</p> <p>C. Work Statement</p> <p><u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none"> • Evaluation of basin facilities along the Columbia River to determine which of these facilities contain hazardous and/or Radioactive liquids capable of impacting groundwater or river water. • Evaluation of existing groundwater composition data for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. The purpose of the evaluation is to determine whether that facility has already impacted the aquifer. • Preparation of characterization reports for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. These reports will contain the geologic and hydrologic information necessary to design a site specific groundwater monitoring plan. • Preparation of a schedule to have necessary, site-specific, groundwater monitoring plans in place. • Preparation of site-specific groundwater monitoring plans for those facilities deemed capable of impacting groundwater or river water. • Sampling and analysis of groundwater to monitor for facility impact on the environment. Annual reporting of sampling and analysis results. • Installation of new groundwater monitoring wells at needed locations such that each facility has a minimum acceptable monitoring well network. 		

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.21	5. WBS ELEMENT TITLE Effluent Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43U	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this Activity is to develop, administer, maintain and report on environmental monitoring and surveillance efforts in the 200 and 600 areas of the Hanford Site. The results of this activity are intended to prevent near-term adverse impacts to workers, the public and the environment. Effluent samplers and ambient air monitors are maintained, routine sampling of soil, vegetation, and surface water is conducted and National Emission Standards for Hazardous Air Pollutants (NESHAPS) compliance issues are addressed.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This Activity provides for the routine collection for analysis of air and water samples to ensure compliance with DOE Order 5480.11 and internal Environmental Compliance Manual, WHC-CM-7-5. Safe access to the 200 Areas via the 600 Area requires regular surveillance so that surface contamination does not spread into the access ways and cause unnecessary exposure of personnel to radiation (OSHA). The Clean Air Act (40 CFR 61, subpart H) places specific limits on the release of actual emission to maintain control and provide quantitative measure of releases. Liquid effluent monitoring provides a similar check on releases of liquids to soil (40 CFR 265 subpart F all sections). Near-field environmental monitoring and surveillance are planned, directed and executed in accordance with DOE Orders 5400.1, 5400.3, 5400.5 5480.1 and 5820.2.</p> <p>C. Work Statement</p> <p><u>This Activity includes but is not limited to:</u></p> <ul style="list-style-type: none"> • Plan, operate and report on specified facility gaseous effluent monitoring system. • Plan, direct, and execute near-field environmental monitoring and surveillance. • Administer Effluent Monitoring and Reporting Program for Facility Operations and Waste Management facilities. • Prepare annual reports of status of effluent releases for radioactive and hazardous contamination within the 200 and 600 areas. • Prepare calendar year air emissions for transmittal by DOE-HQ to EPA as required by 40 CFR 61, Subpart H "National Emissions Standards For Hazardous Air Pollutants (NESHAPs). 		

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.21.01	5. WBS ELEMENT TITLE Environmental Effluent (HPT)	
6. CONTRACTOR WBS ELEMENT CODE: 1R43U1	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to provide for Health Physics Technicians (HPT) that perform surveillance of gaseous effluents in the 200 and 600 Areas to identify and limit the spread of surface contamination or unintentional releases and maintain the areas safe for personnel entry. This Cost Account periodically maintains the surveillance equipment and upgrades procedures as required.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Cost Account provides the labor to operate the gaseous effluent monitoring system around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site.

C. Work Statement

PUREX, PFP, 222-S Laboratory, Tank Farms and UO3 activities include but are not limited to:

- Operate gaseous effluent monitoring system. Includes shift data recording system analysis and trouble shooting, and functional tests. Routinely pull air samples, do source checks, liquid effluent samples and stack checks. Respond to alarms. Tank Waste Remediation Health Physics (TWRHP) provide coverage to Respiratory Protection's in-tank vapor assessments to Tank Farms.

222-S Laboratory activities include but are not limited to:

- Receive and process 200 Area samples.

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WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.21.02		5. WBS ELEMENT TITLE Effluent & Environmental Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43U2		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION			
<p>OBJECTIVE:</p> <p>The objective of this Cost Account is to coordinate the development, documentation, and maintenance of environmental monitoring and surveillance equipment, activities and events within the 200 and 600 Areas of the Hanford Site.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This activity monitors and maintains liquid and gaseous effluents in the 200 and 600 Areas to identify and limit the spread of surface contamination or unintentional releases and maintain the areas safe for personnel entry.</p> <p>C. Work Statement</p> <p><u>Tasks include but are not limited to:</u></p> <ul style="list-style-type: none"> Planning, direction, and execution of near-field environmental monitoring and surveillance in accordance with DOE Orders 5400.1, 5400.3, 5400.5, 5484.1, and 5820.2 and as required by Federal and State regulations, criteria, and standards. Administer the Effluent Monitoring and Reporting Program for Facility Operations and Waste Management facilities and determine compliance with applicable DOE and Westinghouse Hanford Co. requirements. Perform surveillances of facilities and activities with potential to release pollutants to the environment for compliance requirements. Respond to environmental occurrences (including releases of radioactive and hazardous materials, fires, accidents), facilitating remedial actions where needed, and preparing formal reports of occurrences when they are required. Prepare annual reports of status of effluent releases and radioactive and hazardous material contamination within the 200 and 600 Areas. Conduct reviews of reports, criteria, designs, procedures, excavation permits, and other documentation affecting effluent control systems or having potential for effect on the environment. Interpret/enforce WHC-CM-7-5, <u>Environmental Compliance Manual</u>, and WHC-CM-7-4, <u>Environmental Monitoring Manual</u> requirements. <p><u>Environmental Surveillance tasks include:</u></p> <ul style="list-style-type: none"> Annual environmental surveillance report and monthly report on routine surveillances Support to DOE-HQ Environmental Survey and Tiger Teams (Clean Air Act, Safe Drinking Water Act, DOE Orders 5484.1, 5400.1, 5400.3 and 5820.2) Maintain stack, liquid, and ambient air monitoring equipment. Upgrade specified effluent monitoring systems to comply with regulatory requirements. 200 Area environmental program - upgrade and maintain procedures as necessary to maintain and calibrate effluent and ambient air monitoring equipment consistent with the requirements of NQA-1. Perform PM, PISCES, and corrective maintenance on Near Field Constant Air Monitors (CAMS) brought to T Plant for service. In addition, assure that spare CAMS are available for field service when required. Performance of routine surveillance of hazardous waste satellite accumulation and <90 day storage areas <p><u>Radioactive Effluent Monitoring tasks include:</u></p> <ul style="list-style-type: none"> Preparation of annual effluent monitoring reports and maintenance of effluent monitoring plans Performance of routine surveillances and sample and analysis of active effluents Maintain expertise for facility cognizance (Clean Air Act, Safe Drinking Water Act, DOE Orders 5484.1, 5400.1, 5400.3 and 5820.2) Reporting of hazardous waste effluents and support to RCRA groundwater monitoring for closure 			

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WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.21.03	5. WBS ELEMENT TITLE Compliance & Technical Management	
6. CONTRACTOR WBS ELEMENT CODE: 1R43U3	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this Cost Account is to provide expertise for Hanford Air Emissions.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This activity provides expertise and data reporting for air emissions sample data collected around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. The annual report satisfies the requirements of 40CFR 61, Subpart H, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

C. Work Statement

This is a continuing cost account to provide air emissions expertise.

Activities include but are not limited to:

- Provide regulatory requirements for monitoring, reporting and compliance with air emission from the Hanford Site.
- Provide dose calculation for inclusion in the Calendar Year 1993 air emissions.
- Prepare draft CY-93 air emissions for internal review; resolve comments and issue draft for DOE-HQ review; resolve comment and publish cleared document for transmittal to EPA and Ecology. The annual report satisfies the requirements of 40CFR 61, Subpart H, National Emissions Standards for Hazardous Air Pollutants (NESHAP).

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WORK BREAKDOWN STRUCTURE																																										
1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.6.7																																								
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.21.04	5. WBS ELEMENT TITLE NESHAP Compliance																																									
6. CONTRACTOR WBS ELEMENT CODE: 1R43U4	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable																																								
9. APPROVED CHANGES																																										
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100																																									
12. ELEMENT TASK DESCRIPTION																																										
<p>OBJECTIVE:</p> <p>The objective of this Cost Account is to provide expertise for Hanford Radioactive Air Emissions.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This activity provides expertise and data reporting for radioactive air emissions sample data collected around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. The annual report satisfies the requirements of 40 CFR 61, Subpart H, National Emissions Standards for Hazardous Air Pollutants (NESHAP).</p> <p>C. Work Statement</p> <p>This is a continuing cost account to provide radioactive air emissions expertise.</p> <p><u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none"> Scheduling and tracking completion of continuous measurement system upgrades and/or requests for approval of sampling and flow measurement equipment for the existing sixteen (16) significant stacks listed below: <table border="0"> <tr> <td>• Plutonium Uranium Extraction "PUREX" Plant</td> <td>(291-A-1)</td> <td>• PUREX</td> <td>(296-A-1)</td> </tr> <tr> <td>• Plutonium Finishing Plant "PFP"</td> <td>(291-Z-1)</td> <td>• PFP</td> <td>(296-Z-3)</td> </tr> <tr> <td>• 242-A Evaporator</td> <td>(296-A-22)</td> <td></td> <td></td> </tr> <tr> <td>• 241-AP Tank Farm Exhaust</td> <td>(296-A-40)</td> <td></td> <td></td> </tr> <tr> <td>• 340 Waste Handling Facility</td> <td>(340-NT-EX)</td> <td></td> <td></td> </tr> <tr> <td>• 308 Building</td> <td>(308-GL-EX)</td> <td></td> <td></td> </tr> <tr> <td>• Tank Farms</td> <td>(296-A-17)</td> <td>• Tank Farms</td> <td>(296-A-27)</td> </tr> <tr> <td>• Tank Farms</td> <td>(296-A-29)</td> <td>• Tank Farms</td> <td>(296-P-16)</td> </tr> <tr> <td>• Tank Farms</td> <td>(296-P-23)</td> <td>• Tank Farms</td> <td>(296-S-15)</td> </tr> <tr> <td>• ERO</td> <td>(290-S-7W)</td> <td>• BPlant</td> <td>(291-B-1)</td> </tr> </table> Developing and meeting milestones for identifying and evaluating any other RL point sources of radioactive airborne emissions and completing assessments to determine which, if any, are subject to 40 CFR 61, Subpart H continuous measurement requirements. A Compliance Order was issued by the EPA on February 1, 1993 to direct the correction of regulatory deficiencies at seven of the sixteen Hanford registered stacks. Compliance activities for four of those stacks (B Plant, 340 Facility and 2 stacks in Tank Farms) are supported by this cost account. <p>Recent Clean Air Act amendments to 40 CFR 61, Subpart H, National Emissions Standards for Hazardous Air Pollutants (NESHAP) require additional analyses and measurements for point source radioactive air emissions. Stacks, vents, pipes and other point source releases are to be continuously monitored or sampled in accordance with prescriptive requirements. Documentation must be in place to show if potential emissions are excluded from measurement requirements.</p>			• Plutonium Uranium Extraction "PUREX" Plant	(291-A-1)	• PUREX	(296-A-1)	• Plutonium Finishing Plant "PFP"	(291-Z-1)	• PFP	(296-Z-3)	• 242-A Evaporator	(296-A-22)			• 241-AP Tank Farm Exhaust	(296-A-40)			• 340 Waste Handling Facility	(340-NT-EX)			• 308 Building	(308-GL-EX)			• Tank Farms	(296-A-17)	• Tank Farms	(296-A-27)	• Tank Farms	(296-A-29)	• Tank Farms	(296-P-16)	• Tank Farms	(296-P-23)	• Tank Farms	(296-S-15)	• ERO	(290-S-7W)	• BPlant	(291-B-1)
• Plutonium Uranium Extraction "PUREX" Plant	(291-A-1)	• PUREX	(296-A-1)																																							
• Plutonium Finishing Plant "PFP"	(291-Z-1)	• PFP	(296-Z-3)																																							
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• Tank Farms	(296-A-17)	• Tank Farms	(296-A-27)																																							
• Tank Farms	(296-A-29)	• Tank Farms	(296-P-16)																																							
• Tank Farms	(296-P-23)	• Tank Farms	(296-S-15)																																							
• ERO	(290-S-7W)	• BPlant	(291-B-1)																																							

7A. WBS Dictionary**WORK BREAKDOWN STRUCTURE**

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.22	5. WBS ELEMENT TITLE Environmental Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43V	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this Activity is to ensure the cribs, ponds and ditches which receive waste water are maintained and monitored. Air and water surveys, of stabilized sites, are performed to monitor and quantify radioactive contamination spread and initiate vadose zone (subsurface and above the water table) monitoring. Continuous operation, monitoring, analysis and reporting of the Hanford seismic network and University of Washington - Eastern Washington seismic network produces information that would otherwise not be available.</p> <p>A. Cost Content Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content This Activity supports the environmental surveillance and monitoring of the cribs, ponds, and ditches in the 200 areas, the maintenance, operation and reporting of the seismic network and provision for advanced vadose zone monitoring. This activity was established to enhance the health and safety of the workers, public and the environment. This is further support by the Clean Air Act (40 CFR 61, Subpart A sections 61.01 through 61.19 and Subpart H section 61.90 through 61.97); DOE Orders 5820.2A and 5400.5; the reporting on RCRA and CAA discharges and the permitting and investigations required by TRI-Party Agreement (DOE/EPA/Ecology).</p> <p>C. Work Statement <u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none">• Ensure cribs, ponds and ditches receiving waste water are maintained and monitored.• Perform vadose zone monitoring through radionuclide logging system. Support installation of nuclear logging calibration model. Refine spectral gamma ray interpretation method. Continue to baseline active and inactive waste sites.• Collect weekly air and water samples (~13 water and ~50 air) from the 200 and 600 areas.• Complete ~143 monthly environmental surveys of cribs, ponds, reverse wells, burial grounds, unplanned releases, retention basin and tank farm perimeters.• Survey ~2000 acres annually of stabilized or remediated sites.		

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WORK BREAKDOWN STRUCTURE		
1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.22.01	5. WBS ELEMENT TITLE Cribes, Ponds & Ditches	
6. CONTRACTOR WBS ELEMENT CODE: 1R43V1	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION		
<p>OBJECTIVE:</p> <p>The objective of this Cost Account is to ensure that cribes, ponds and ditches which receive waste water are maintained and monitored. This cost account limits the spread of surface contamination or unintentional releases and maintains the areas safe for personnel entry.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This Cost Account maintains cribes, ponds and ditches around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. It focuses on maintaining compliance with regulations such as the Clean Water Act, Safe Drinking Water Act and other State and Federal Regulations but does not interface with the regulatory agencies.</p> <p>C. Work Statement</p> <p><u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none"> • Provide operations, maintenance and engineering support for the separations areas cribes, ponds, and ditches. Performance of work will comply with WHC operations procedures. • Perform all surveillance of cribes, ponds and ditches to include: <ul style="list-style-type: none"> • Drywell monitoring of active sites • Pond level monitoring • Crib level monitoring • Effluent flow rate measurements • Perform maintenance of cribes, ponds and ditches to include: <ul style="list-style-type: none"> • Dredging of ditches and ponds (also drying out) as required to maintain flow and infiltration rate • Water meters • Prepare and/or revise procedures as required. • Provide surveillance data analysis and trend reporting. • Provide support for B Pond piezometer measurements. • Waste burial assessment will be change requested if needed. • Complete FY-1994 selective herbicide spraying. 		

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WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.22.02		5. WBS ELEMENT TITLE Seismic Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43V2		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: The objective of this Cost Account is to support and maintain a seismic monitoring surveillance program that encompasses the Hanford Site and Eastern Washington. A. Cost Content Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs. B. Technical Content This Cost Account maintains seismology history essential to permitting requirements associated with Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. C. Work Statement Collection and analysis of seismic activity information is vital to the construction of environmental cleanup facilities and structures. The information to explain seismic events which may be felt at the Hanford site and vicinity is not available from other sources. <u>Activities include but are not limited to:</u> <ul style="list-style-type: none"> • Maintain minimum required seismic monitoring capabilities for determining location and magnitude of local earthquakes to Hanford facilities. • Maintain an historical seismic monitoring data base. • Maintain ability to evaluate and report seismic activities. • Interpret the continuing seismicity at and around Hanford. • Perform overall technical, administrative, and seismic network maintenance and reporting to include: <ul style="list-style-type: none"> • Negotiation and monitoring of a yearly contract with the University of Washington for reporting all events recorded by the regional network via a yearly catalog. Quarterly "preliminary" catalogs are also provided. • Interpretation of seismic data from the Hanford array and reporting all events recorded by the Hanford network via yearly catalog. • Maintain all seismic stations in the regional and Hanford arrays. • Provide an annual schedule for planned maintenance and upgrade of seismic stations. Use this schedule to status the performance of this cost account. 			

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WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE February 1, 1994	3. DOE-HQ WBS CODE: 3.7.0.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.22.03	5. WBS ELEMENT TITLE Inactive Crib Monitoring	
6. CONTRACTOR WBS ELEMENT CODE: 1R43V3	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3120100	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this cost account is to support startup of spectral gamma logging of inactive cribs per DOE directive to initiate vadose zone monitoring.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This cost account provides for the final development stages of the Radionuclide Logging System (RLS), essential to better locate, identify and quantify radionuclide species in the vadose zone between the ground surface and groundwater. Additional techniques have promise of direct measurement of soil moisture content and identification of chemical contaminants from the logging of boreholes.

C. Work Statement

Activities include but are not limited to:

- Update the Vadose Zone Monitoring Plan.
- Calibrate the Radionuclide Logging System (RLS): a spectral gamma logging system.
- Participate in CRADA for installation of the nuclear logging calibration model.
- Refine the spectral gamma ray interpretation method.
- Continue baselining active and inactive waste sites.

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1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring		2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.7
4. DOE-RL WBS ELEMENT CODE 1.5.3.1.22.04		5. WBS ELEMENT TITLE Environmental Surveillance	
6. CONTRACTOR WBS ELEMENT CODE: 1R43V4		7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES			
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:		11. BUDGET AND REPORTING NUMBER EW3120100	
12. ELEMENT TASK DESCRIPTION			
<p>OBJECTIVE:</p> <p>The objective of this cost account is to collect environmental air and water samples. Perform surveys of stabilized site, cribs, ponds and ditches to monitor and quantify contamination spreads.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This cost account takes weekly samples from various location throughout the 200 and 800 areas. Also quarterly, semi-annual and annual surveys as well as special survey request are performed. Surveys and sampling are done to ensure that Hanford complies with DOE Order 5480.11 and to quantify and mitigate any radioactive contamination. Personnel within this cost account are designated Health Physics emergency response personnel.</p> <p>C. Work Statement</p> <p><u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none"> • Complete bi-monthly road survey inside 200 east and 200 west area, perimeter roads and other special road surveys. • Complete 35 quarterly, 6 semi-annual and 28 annual routine environmental surveys. • Complete quarterly environmental TLD program. • Collect weekly air and water samples (~13 water and ~50 air) from the 200 and 800 areas. • Complete ~143 monthly environmental surveys of cribs, ponds, reverse wells, burial grounds, unplanned releases, retention basin and tank farm perimeters. • Survey ~2000 acres annually of stabilized or remediated sites. 			

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WORK BREAKDOWN STRUCTURE		
1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.8
4. DOE-RL WBS ELEMENT CODE 1.5.3.2	5. WBS ELEMENT TITLE RCRA Groundwater Well Installation	
6. CONTRACTOR WBS ELEMENT CODE: 1R42	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3130030 39EW31303	
12. ELEMENT TASK DESCRIPTION <p>OBJECTIVE: THIS IS FUNDED IN FY-1993 CARRYOVER</p> <p>The objective of this End Function is to install groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Add RCRA wells at the rate specified in Tri-Party Agreement Milestone M-24-00.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This End Function supports and coordinates all activities associated with the installation of RCRA compliant groundwater monitoring wells installed beginning in FY 93 under Line Item 93-D-180 (W-152). Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B status compliance and hence, continue to operate. The Tri-Party Agreement stipulates that there will be up to 50 RCRA wells installed each year beginning CY 91. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Includes provision for additional wells required for assessment monitoring, RCRA and Operational Background Monitoring, and replacement of monitoring wells which go dry or are not useful for other reasons.</p> <p>C. Work Statement</p> <p><u>Specific support includes but is not limited to:</u></p> <ol style="list-style-type: none"> (1) Preparation and issuance of approved site specific groundwater monitoring plans. (2) Preparation and issuance of approved procedures and QA Plans per WHC-CM-6-1. (3) Performance of Cultural Resources Review. (4) Preparation of approved data sheets to supplement groundwater well specifications. (5) Material procurement. (6) Actual drilling. (7) Provide or procure qualified drillers. (8) Field supervision of drilling, well installation, well completion and completion of all surface work. (9) HPT and site safety support as required. (10) All field geology/hydrology activities in support of site characterization, including aquifer testing at new wells. (11) Sampling pump procurement, installation and testing. (12) Preparation of all documentation resulting from drilling activities. (13) Surface completion work required prior to turning wells over for routine monitoring. (14) Complete and submit to project files, all necessary data from groundwater monitoring wells installed under W-017H and W-152. (15) Perform engineering studies to support optimum placement and construction of new RCRA wells. (16) Provide soils laboratory analyses to support well completion. (17) Dispose of wastes generated during well construction, completion and development. 		

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WBS 1.5.3

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WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.8
4. DOE-RL WBS ELEMENT CODE 1.5.3.2.17	5. WBS ELEMENT TITLE RCRA Groundwater Well Installation	
6. CONTRACTOR WBS ELEMENT CODE: 1R42G	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3130030 39EW31303	

12. ELEMENT TASK DESCRIPTION

OBJECTIVE: THIS ACTIVITY IS FUNDED IN FY-1993 CARRYOVER

The objective of this Activity is to install groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Add RCRA wells at the rate specified in Tri-Party Agreement Milestone M-24-00.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This Activity supports and coordinates all activities associated with the installation of RCRA compliant groundwater monitoring wells installed beginning in FY 93 under Line Item 93-D-180 (93W-GFW-152). Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B status compliance and hence, continue to operate. The Tri-Party Agreement stipulates that there will be up to 50 RCRA wells installed each year beginning CY 91. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Includes provision for additional wells required for assessment monitoring, RCRA and Operational Background Monitoring, and replacement of monitoring wells which go dry or are not useful for other reasons.

C. Work Statement

Specific support includes but is not limited to:

- (1) Preparation and issuance of approved site specific groundwater monitoring plans.
- (2) Preparation and issuance of approved procedures and QA Plans per WHC-CM-6-1.
- (3) Performance of Cultural Resources Review.
- (4) Preparation of approved data sheets to supplement groundwater well specifications.
- (5) Material procurement.
- (6) Actual drilling.
- (7) Provide or procure qualified drillers.
- (8) Field supervision of drilling, well installation, well completion and completion of all surface work.
- (9) HPT and site safety support as required.
- (10) All field geology/hydrology activities in support of site characterization, including aquifer testing at new wells.
- (11) Sampling pump procurement, installation and testing.
- (12) Preparation of all documentation resulting from drilling activities.
- (13) Surface completion work required prior to turning wells over for routine monitoring.
- (14) Complete and submit to project files, all necessary data from groundwater monitoring wells installed under W-017H and W-152.
- (15) Perform engineering studies to support optimum placement and construction of new RCRA wells.
- (16) Provide soil laboratory analyses to support well completion.
- (17) Dispose of wastes generated during well construction, completion and development.

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WBS 1.5.3

7A. WBS Dictionary**WORK BREAKDOWN STRUCTURE**

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.8
4. DOE-RL WBS ELEMENT CODE 1.5.3.2.17.01	5. WBS ELEMENT TITLE Groundwater Well Planning	
6. CONTRACTOR WBS ELEMENT CODE: 1R42G1	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3130030	
12. ELEMENT TASK DESCRIPTION <p>OBJECTIVE: THIS COST ACCOUNT IS FUNDED IN FY-1993 CARRYOVER</p> <p>The objective of this cost account is to support installation of groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Add RCRA wells at the rate specified in Tri-Party Agreement Milestone M-24-00.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This cost account supports and coordinates activities associated with the installation of RCRA compliant groundwater monitoring wells installed beginning in FY 93 under Line Item 93-D-180 (93W-GFW-152). Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B status compliance and hence, continue to operate. The Tri-Party Agreement stipulates that there will be up to 50 RCRA wells installed each year beginning CY 91. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Includes provision for additional wells required for assessment monitoring, RCRA and Operational Background Monitoring, and replacement of monitoring wells which go dry or are not useful for other reasons.</p> <p>C. Work Statement</p> <p><u>Activities include but are not limited to:</u></p> <ul style="list-style-type: none"> • Preparation and issuance of approved ECNs to site specific groundwater monitoring plans. • Preparation of approved datasheets to supplement groundwater well specifications. • Complete engineering studies to support Geoscience Activities. • Complete and submit to project files, all necessary data from groundwater monitoring wells installed under W-017H and W-152. This data will be used to prepare site specific characterization reports in support of RCRA Part B Permit applications. • Identify, review, and update groundwater monitoring plans. • Prepare Borehole Completion Data Packages for sites completed in CY-1993. • Initiate Borehole Completion Data Packages for sites completed in FY-1994 for inclusion in the CY-94 report. 		

RCRA & OPERATIONAL MONITORING PROGRAM WBS 1.5.3

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FYWP 1994

7A. WBS Dictionary

WORK BREAKDOWN STRUCTURE

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.8
4. DOE-RL WBS ELEMENT CODE 1.5.3.2.17.02	5. WBS ELEMENT TITLE Project Support for RCRA Groundwater Wells	
6. CONTRACTOR WBS ELEMENT CODE: 1R42G2	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable

9. APPROVED CHANGES

10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER EW3130030
--	--

12. ELEMENT TASK DESCRIPTION

OBJECTIVE:

The objective of this effort is to support installations of groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Add RCRA wells at the rate specified in Tri-Party Agreement Milestone M-24-00.

A. Cost Content

Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IRM support, organizational overhead, general and administrative, and common support pool costs.

B. Technical Content

This cost account supports and coordinates all activities associated with the installation of RCRA compliant groundwater monitoring wells installed beginning in FY 93 under Line Item 93-D-180 (93W-GFW-152). Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B status compliance and hence, continue to operate. The Tri-Party Agreement stipulates that there will be up to 50 RCRA wells installed each year beginning CY 91. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Includes provision for additional wells required for assessment monitoring, RCRA and Operational Background Monitoring, and replacement of monitoring wells which go dry or are not useful for other reasons.

C. Work Statement

This Cost Account provides project management and technical support to Project W-152 for the installation of RCRA compliant groundwater monitoring wells. Well installation complies with the approved groundwater monitoring plans which identify the location of wells. Wells will be installed to meet the requirements imposed by WAC 173-160, Minimum Standards For Construction And Maintenance Of Wells.

- Site Surveillance Health Physics : Provide health physics technicians to support the drilling operation at the well site.
- Environmental Projects : Provide overall project management. Provide facility generator and technical support on drill waste.
- Construction Projects QA : Provide construction projects quality assurance support to drilling operations.
- Personal Protective Equipment : Provide safety respiratory equipment for drilling personnel.
- Office of Sample Management : Provide RCRA approved sampling lab support as necessary to designate the potentially contaminated drill cuttings & decontamination fluids.
- Geosciences : Prepare pre-drilling procedures and documentation, Quality Assurance Plan, Groundwater Monitoring plans. Support the project by supplying field geologists and providing geophysical logging to support drilling.

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WBS 1.5.3

7A. WBS Dictionary**WORK BREAKDOWN STRUCTURE**

1. PROJECT TITLE/PARTICIPANT RCRA and Operational Monitoring	2. DATE January 31, 1994	3. DOE-HQ WBS CODE: 3.7.6.8
4. DOE-RL WBS ELEMENT CODE 1.5.3.2.17.13	5. WBS ELEMENT TITLE Project W-152 Well Installation	
6. CONTRACTOR WBS ELEMENT CODE: 3R4ZG3	7. REVISION # AND AUTHORIZATION Not Applicable	8. DATE Not Applicable
9. APPROVED CHANGES		
10. SYSTEM DESIGN DESCRIPTION NUMBER: TITLE:	11. BUDGET AND REPORTING NUMBER 39EW31303	
12. ELEMENT TASK DESCRIPTION OBJECTIVE: <p>The objective of this effort is to install groundwater monitoring wells around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site. Add RCRA wells at the rate specified in Tri-Party Agreement Milestone M-24-00.</p> <p>A. Cost Content</p> <p>Cost content includes the following cost types: labor, material, contracts, other Hanford contractors, site services, IPM support, organizational overhead, general and administrative, and common support pool costs.</p> <p>B. Technical Content</p> <p>This project coordinates all activities associated with the installation of RCRA compliant groundwater monitoring wells installed beginning in FY 93 under Line Item 93-D-180 (93W-GFW-152). Installation of RCRA compliant groundwater monitoring wells is part of the overall groundwater monitoring program which must be in place for waste management facilities to maintain RCRA Part B status compliance and hence, continue to operate. The Tri-Party Agreement stipulates that there will be up to 50 RCRA wells installed each year beginning CY 91. Well installation is to continue until all operating facilities have monitoring systems that are approved by the regulators. Includes provision for additional wells required for assessment monitoring, RCRA and Operational Background Monitoring, and replacement of monitoring wells which go dry or are not useful for other reasons.</p> <p>C. Work Statement</p> <p><u>Specific support includes but is not limited to:</u></p> <ol style="list-style-type: none"> (1) Preparation and issuance of approved procedures and QA Plans per WHC-CM-6-1. (2) Preparation of approved data sheets to supplement groundwater well specifications. (3) Material procurement. (4) Actual drilling. (5) Provide or procure qualified drillers. (6) Field supervision of drilling, well installation, well completion and completion of all surface work. (7) Site safety support as required. (8) All field geology/hydrology activities in support of site characterization, including aquifer testing at new wells. (9) Sampling pump procurement, installation and testing. (10) Preparation of all documentation resulting from drilling activities. (11) Surface completion work required prior to turning wells over for routine monitoring. (12) Complete and submit to project files, all necessary data from groundwater monitoring wells installed under W-152. (13) Dispose of wastes generated during well construction, completion and development. 		

RCRA & OPERATIONAL MONITORING PROGRAM

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Appendix Section 7B

7B. FY 1994 Cost Account Authorizations (CAA)

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43A1	CAA Title: Program Management	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr RR Thompson	Date Printed:	LATEST CR #:
	Activity Title: Program Management		October 1, 1993	November 19, 1993	

Resp. Org. Title/Code: RCRA & Operational Monitoring / 86400	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Cost Acct Mgr/Phone: RR Thompson 376-6914	1,573.1				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY____ ☐ GPP FY____ ☐ Small Projects FY____ ☐ CENRTC FY____

-2-Controlled Milestones TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key			DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
R	RAA-94-105	Submit FY 1996 Preliminary ADS Budget Submission	02/28/94
R	RAA-94-110	Update Five-Year Plan Activity Data Sheets	05/31/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This cost account will provide programmatic interface with federal, state and local regulatory agencies as necessary in support of the RCRA and Operational Monitoring Program activities. This cost account and its supporting personnel will be the focal point for the programmatic interface with all Westinghouse organizations and programs as well as other contractors and the Department of Energy.

Activities will include but are not limited to:

- Provide program management and administrative support to the RCRA and Operational Monitoring Program activities.
- Administrative support will include:
 - Budget baseline preparation and annual budget submittal preparation
 - Implementation and approval of change control
 - Monthly reporting and presentation preparation
 - Program integration, cost and schedule monitoring and control
 - Long-range planning and administration of the Management Control policies and procedures.

ADS #: 7340-00	SMS WBS 1.5.3.1.11.01	B&R#: EW3120100	Total CAP (Functional K\$): 1259.9	G&A/CSP: 313.2	Total CAA (Program K\$): \$1573.1	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date
	Activity Manager	RR Thompson		Program Administration	SB Roakes/JE Gronski	
	End Function Manager	RR Thompson		Cost Account Manager	RR Thompson	
	Program Administration	SB Roakes/JE Gronski		Activity Manager	RR Thompson	
	Cost Account Manager	RR Thompson		End Function Manager	RR Thompson	

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-1-Cost Account 1R43A1	CAA Title: Program Management	WESTINGHOUSE HANFORD COMPANY	Activity Mgr RR Thompson	Date Printed:	LATEST CR #:
	Activity Title: Program Management	COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to Level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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-1-Cost Account 1R43C1	CAA Title: Well Sampling & Analysis	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

Resp. Org.Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Geo/Hydro Chemistry / 81232	7,456.2				10/01/93	09/30/94		
Cost Acct Mgr/Phone: DG Horton 376-6868								

Funding Source: ☒ Operating Expense ☐ Line Item FY ☐ GPP FY ☐ Small Projects FY ☐ CENRTC FY

-2-Controlled Milestones		TYPE:	T = Tri-Party Agreement	M = Major DOE-HQ	F = Field Office	K = Major DOE-RL	R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION						
R	RAC-94-104	Issue status letter for 4th Qtr FY93 RCRA & Operational Groundwater sampling and analysis						10/31/93
R	RAC-94-105	Review Operational Groundwater Monitoring Plan for next year FY95						12/01/93
R	RAC-94-111	Issue status letter for 1st Qtr FY94 RCRA & Operational Groundwater sampling and analysis						01/31/93
R	RAC-94-112	Issue status letter for 2nd Qtr FY94 RCRA & Operational Groundwater sampling and analysis						04/30/94
R	RAC-94-113	Issue status letter for 3rd Qtr FY94 RCRA & Operational Groundwater sampling and analysis						07/31/94
R	RAC-94-120	Prepare draft for review of PNL's SOW for FY-95 GW Monitoring Program						08/31/94
R	RAC-94-125	Submit FY95 Operational Groundwater Monitoring Schedule						06/24/94
F	RAC-94-130	FY94 Review the Hanford Site Groundwater Protection Management Plan						09/30/94
R	RAC-94-140	Issue CY93 annual report for Operational Groundwater Monitoring at Hanford						05/31/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account will coordinate activities associated with groundwater monitoring at operational waste sites and RCRA regulated facilities in compliance with WAC-173-303, 40 CFR 265, and DOE Order 5400.1.

Activities include but are not limited to:

- Collect and analyze samples per approved procedures.
- Provide review and evaluation of analyses.
- Provide statistical and trend analysis of sample results.
- Provide QC data evaluation for regulatory reporting.

ADS #: 7340-00		SMS WBS 1.5.3.1.13.01		B&R#: EW3120100		Total CAP (Functional K\$): 6563.8		GLA/CSP: 892.4		Total CAA (Program K\$): \$7456.2	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date					
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski						
	End Function Manager	RR Thompson		Cost Account Manager	DG Horton						
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York						
	Cost Account Manager	DG Horton		End Function Manager	RR Thompson						

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-1-Cost Account 1R43C1	CAA Title: Well Sampling & Analysis	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R43C2	CAA Title: RCRA Reporting	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

Resp. Org. Title/Code: Geohydrology Baseline / 81233	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Complete	Rev. Start	Complete
Cost Acct Mgr/Phone: JS Schmid 376-0241	1510.6				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY ☐ GPP FY ☐ Small Projects FY ☐ CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key
TYPE	CONTROL NUMBER	DESCRIPTION
		DATE
F	RAC-94-202	Issue 2nd Quarter CY-1993 report for RCRA groundwater monitoring program
F	RAC-94-203	Issue 3rd Quarter CY-1993 report for RCRA groundwater monitoring program
F	RAC-94-220	Issue CY-1993 Groundwater Monitoring Report to state and federal regulators
F	RAC-94-204	Issue 4th Quarter CY-1993 report for RCRA groundwater monitoring program
F	RAC-94-211	Issue 1st Quarter CY-1994 report for RCRA groundwater monitoring program

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account will coordinate activities associated with data management in support of RCRA quarterly and annual reports per DOE Order 5400.1.

Activities include but are not limited to:

- Prepare quarterly reports for RCRA groundwater monitoring in fulfillment of RCRA interim status recordkeeping and reporting requirements (40 CFR 265.94).
- Initiate testing of technology for automated data collection for groundwater monitoring.
- Provide groundwater database management and support for RCRA and other groundwater activities as required.

ADS #: 7340-00	SMS WBS 1.5.3.1.13.02	B&R#: EW3120100	Total CAP (Functional K\$): 1,209.7	G&A/CSP: 300.9	Total CAA (Program K\$): \$1,510.6
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski
	End Function Manager	RR Thompson		Cost Account Manager	JS Schmid
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York
	Cost Account Manager	JS Schmid		End Function Manager	RR Thompson

-1-Cost Account 1R43C2	CAA Title: RCRA Reporting	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)**GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:**

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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-1-Cost Account 1R43C3	CAA Title: RCRA Project Scientist Support	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

Resp. Org.Title/Code: Geohydrology / 81235	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Complete	Rev. Start	Complete
Cost Acct Mgr/Phone: RL Jackson 372-3501	1,221.8				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY ☐ GPP FY ☐ Small Projects FY ☐ CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key
<u>TYPE</u>	<u>CONTROL NUMBER</u>	<u>DESCRIPTION</u>
R	RAC-94-305	Review/Update PMP for WHC RCRA Groundwater Monitoring Report.
R	RAC-94-310	Review/Update QAPP for WHC RCRA Groundwater Monitoring.
		DATE
		09/30/94
		09/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)	
Coordinate activities and provide technical management of groundwater monitoring activities at RCRA facilities (including solid waste landfills) to ensure compliance with state and federal regulation (WAC-173-303/304, 40 CFR 265), DOE orders (5400.1), TPA and Compliance Orders.	
<u>Activities include but are not limited to:</u>	
<ul style="list-style-type: none"> Provide overall project management, technical support, and coordination for RCRA Groundwater Monitoring around 21 TSD facilities. Prepare and/or revise site specific groundwater monitoring plans, analysis of results, characterization reports and presentations to support RCRA groundwater monitoring. Prepare and/or revise Project Management Plan (PMP) and Quality Assurance Project Plan (QAPP). Provide expertise on aquifer testing methodology. Provide expertise to support permitting activities as needed. Prepare RCRA Groundwater assessment Plans/Reports as determined from statistical evaluations. Conduct engineering studies to support RCRA groundwater monitoring activities. Provide additional milestones as necessary prior to authorizing next year CAA. 	

ADS #: 7340-00	SMS WBS 1.5.3.1.13.03	B&R#: EW3120100	Total CAP (Functional K\$): 979.0	G&A/CSP: 242.7	Total CAA (Program K\$): \$1,221.8
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski
	End Function Manager	RR Thompson		Cost Account Manager	RL Jackson
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York
	Cost Account Manager	RL Jackson		End Function Manager	RR Thompson

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R43C3	CAA Title: RCRA Project Scientist Support Activity Title: Groundwater Monitoring	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York October 1, 1993	Date Printed: November 19, 1993	Latest CR #:
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-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable MHC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to MHC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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-1-Cost Account 1R43C5	CAA Title: Groundwater Support Activities	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code: Geohydrology Baseline/81230	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Complete	Rev. <u> </u> Start	Complete
Cost Acct Mgr/Phone: MJ Love 6-0593	730.7				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY ☐ GPP FY ☐ Small Projects FY ☐ CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
		N/A	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

The objective of this cost account is to provide administrative support to Geoscience work funded by the RCRA and Operational Monitoring Program.

Support is to include, but not limited to:

- Provide monthly report input to the Management Control System (MCS), SMS, PTS and DOE-HQ/DOE-RL inquires as required.
- Provide current and outyear budget planning/scheduling, prioritization and other exercises as directed by DOE and WHC.
- Provide responses to QA audits, surveillance, appraisals, etc as required.
- Provide monthly report describing QA status.
- Provide monthly MCS status information for Geosciences RCRA Cost Accounts.

ADS #: 7340-00	SMS WBS 1.5.3.1.13.05	B&R#: EW3120100	Total CAP (Functional K\$): 577.8	G&A/CSP: 152.9	Total CAA (Program K\$): \$730.7	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski	
	End Function Manager	RR Thompson		Cost Account Manager	MJ Love	
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York	
	Cost Account Manager	MJ Love		End Function Manager	RR Thompson	

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R43C5	CAA Title: Groundwater Support Activities	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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WHC-SP-1033

-1-Cost Account 1R43C6	CAA Title: Purgewater Disposal	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

Resp. Org.Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Environmental Data Management / 81360	438				10/01/93	09/30/94		
Cost Acct Mgr/Phone: Y Sada 376-8596								

Funding Source: [X] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key			
TYPE	CONTROL NUMBER	DESCRIPTION	DATE
		N/A	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

The objective of this cost account is to provide funds for the work associated with the collection, transportation, storage and analysis of groundwater monitoring well purgewater.

Required activities include, but are not limited to:

- Engineering support to purgewater activities. Ensure that purgewater trucks are in compliance with current applicable DOT standards. Maintain tracking of purgewater movement.
- Provide geosciences support to purgewater activities. Update list of wells required for collection, within the strategy document, upon receipt of sampling data supplied by PNL. Provide sampling, packaging and transportation services as required for purgewater.
- Provide EFS support for purgewater activities per EII 10.3 procedures.
- Operate Purgewater Storage Facility. Perform daily and weekly inspection practices to ensure containment within the tanks.
- Provide for vehicle maintenance services and personnel to transport purgewater from wells to the storage facility. Remove tumble weeds and spray the area surrounding the ModuTanks with herbicide.

ADS #: 7340-00		SMS WBS 1.5.3.1.13.06		B&R#: EW3120100		Total CAP (Functional K\$): 346.3		G&A/CSP: 91.7		Total CAA (Program K\$): \$438.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date		Title	Cost Acct/Work Authority Approval		Date		
	Activity Manager	MT York				Program Administration	SB Roakes/JE Gronski				
	End Function Manager	RR Thompson				Cost Account Manager	Y Sada				
	Program Administration	SB Roakes/JE Gronski				Activity Manager	MT York				
	Cost Account Manager	Y Sada				End Function Manager	RR Thompson				

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R43C6	CAA Title: Purgewater Disposal	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Groundwater Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

- Provide analytical support for sampling and data interpretation of purgewater samples.
- Provide Engineering support to include purgewater in influent stream of Waste Water Treatment Facility.

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting (cost, schedule, and scope).
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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WMC-SP-1033

-1-Cost Account 1R43D1	CAA Title: GW Well Maintenance & Decommission	WESTINGHOUSE HANFORD COMPANY	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Well Maintenance/Decommission	COST ACCOUNT AUTHORIZATION	October 1, 1993	November 19, 1993	
Program/Project: RCRA & Operational Monitoring					

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete	
Groundwater Well Services / 81730	2,399.9		-0-		10/01/93	09/30/94			
Cost Acct Mgr/Phone: DJ Moak 376-2312									

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones				TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key			
TYPE	CONTROL NUMBER	DESCRIPTION			DATE		
F	RAD-94-100	Issue FY93 well remediation/decommissioning status to RL			12/31/93		
R	RAD-94-105	Review and Update the Well Remediation/Decommissioning Management Plan			03/31/94		
R	RAD-94-130	Update Long-Range (5 years) Level 3 Schedule for Well Remediation/Decommissioning			07/30/94		

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

WELL REMEDIATION/Decommissioning:

Coordinate and perform activities associated with the remediation, upgrading and decommissioning of groundwater monitoring wells and vadose wells, on the Hanford Site. Remediation activities enable wells to conform to "fitness for use" requirement or result in closure of non-compliant wells in accordance with State and Federal requirements.

Activities include but are not limited to:

- Develop, revise and issue a Well Remediation/Decommissioning Management Plan.
- Perform a survey of groundwater monitoring wells.
- Evaluate well construction and characterization data.
- Implement remediation/decommissioning specifications and procedures.
- Prepare long-range schedule implementation of activities.
- Provide management and technical direction of field activities.
- Prepare annual report of activities including accomplishments, work in-process and planned work schedule for the coming year.

Wells identified as requiring remediation will be evaluated and dispositioned based on the priorities of the facilities. All work is to be performed in accordance with all applicable safety, QA, engineering, environmental and regulatory requirements.

ADS #: 7340-00		SMS WBS 1.5.3.1.14.01		B&R#: EW3120100		Total CAP (Functional K\$): 1,904.0		G&A/CSP: 495.9		Total CAA (Program K\$): \$2,399.9	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date					
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski						
	End Function Manager	RR Thompson		Cost Account Manager	DJ Moak						
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York						
	Cost Account Manager	DJ Moak		End Function Manager	RR Thompson						

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RCRA & OPERATIONAL MONITORING PROGRAM

WMC-SP-1033

-1-Cost Account 1R43D1	CAA Title: GW Well Maintenance & Decommission	WESTINGHOUSE HANFORD COMPANY	Activity Mgr	MT York	Date Printed:	Latest CR #:
	Activity Title: Well Maintenance/Decommission	COST ACCOUNT AUTHORIZATION	October 1, 1993	November 19, 1993		
Program/Project: RCRA & Operational Monitoring						

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)**WELL MAINTENANCE:**

This workscope includes performing routine and non-routine maintenance on groundwater/vadose monitoring and observation wells on the Hanford Site. All work is to be performed in compliance with all applicable safety, QA, engineering, environmental and regulatory requirements.

Activities include, but are not limited to:

- Pump removal, repair and installation.
- Well development, bailing and removal of obstructions within the well which affect the well structure.
- Borehole video camera inspections.
- Repair to surface components of the well.

Activities are in support of hydrologic data gathering mandated by State and Federal regulations and to upgrade facilities (wells) to comply with WAC standards.

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to Level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting (cost, schedule, and scope).
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

WHC-SP-1033

-1-Cost Account 1R43U1	CAA Title: Env Eff Monitoring (HPT)	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code: Tank Waste Remediation Health Physics / 33300	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Cost Acct Mgr/Phone: BH Lueck Jr. 372-2492	1,120.2				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY _____ ☐ GPP FY _____ ☐ Small Projects FY _____ ☐ CENRTC FY _____

-2-Controlled Milestones TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key			DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
R	RBA-94-100	Issue letter to Program Office summarizing FY 1994 monthly sample collection status.	09/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account provides the labor to operate the gaseous effluent monitoring system around the Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities and the remaining operational facilities on the Hanford site.

Activities include but are not limited to:

- PUREX, PFP, 222-S Laboratory, Tank Farms and UO3 activities include but are not limited to:
 - Operate gaseous effluent monitoring system. Includes shift data recording system analysis and trouble shooting, and functional tests. Routinely pull air samples, do source checks, liquid effluent samples and stack checks. Respond to alarms. Tank Waste Remediation Health Physics (TMRHP) provide coverage to Respiratory Protection's in-tank vapor assessments to Tank Farms.
- 222-S Laboratory activities include but are not limited to:
 - Receive and process 200 Area samples.

ADS #: 7340-00 SMS WBS 1.5.3.1.21.01 B&R#: EV3120100		Total CAP (Functional K\$): 894.5		G&A/CSP: 225.6		Total CAA (Program K\$): \$1,120.2	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date	
	Activity Manager	DL Mitchell		Program Administration	SB Roakes/JE Gronski		
	End Function Manager	RR Thompson		Cost Account Manager	BH Lueck Jr.		
	Program Administration	SB Roakes/JE Gronski		Activity Manager	DL Mitchell		
	Cost Account Manager	BH Lueck Jr.		End Function Manager	RR Thompson		

-1-Cost Account 1R43U1	CAA Title: Env Eff Monitoring (HPT)	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)**GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:**

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43U2	CAA Title: Effluent & Environ Monitoring	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Effluent & Emission Monitoring / 88420								
Cost Acct Mgr/Phone: LP Diediker 373-1716	3,860				10/01/93	09/30/94		

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones		TYPE:	T = Tri-Party Agreement	M = Major DOE-HQ	F = Field Office	K = Major DOE-RL	R = Westinghouse Key	
TYPE	CONTROL NUMBER	DESCRIPTION						DATE
R	RBA-94-203	Issue Quarterly Environmental Radiological Monitoring Report						10/31/93
R	RBA-94-220	Issue CY94 Annual Monitoring Schedule						12/15/93
R	RBA-94-230	Refurbish & Reinstall 45 of 45 base set Constant Air Monitors						12/31/93
R	RBA-94-204	Issue Quarterly Environmental Radiological Monitoring Report						01/31/94
R	RBA-94-235	Refurbish or Prepare 15 of 15 backup set Constant Air Monitors						03/31/94
F	RBA-94-240	CY93 Transmit EIS/ODIS data to INEL, Idaho Falls						03/31/94
R	RBA-94-211	Issue Quarterly Environmental Radiological Monitoring Report						04/30/94
R	RBA-94-212	Issue Quarterly Environmental Radiological Monitoring Report						07/31/94
F	RBA-94-250	CY93 Issue Annual Report on Environmental Surveillance to RL						07/31/94
F	RBA-94-260	CY93 Issue Annual Report on Gaseous & Liquid Effluent Discharge to RL.						07/31/94

Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This cost account supports the development, administration, and maintenance of environmental monitoring and surveillance activities and reporting and monitoring of environmental events within the 200 and 600 Areas of the Hanford Site in accordance with the Environmental Compliance Manual (MHC-CN-7-5).

• Tasks include but are not limited to:

- Planning, direction, and execution of near-field environmental monitoring and surveillance in accordance with DOE Orders 5400.1, 5400.3, 5400.5, 5484.1, and 5820.2.
- Administer the Effluent Monitoring and Reporting Program for Facility Operations and Waste Management facilities and determine compliance with applicable DOE and Westinghouse Hanford Co. requirements.
- Perform surveillances of Area facilities and activities with potential to release pollutants to the environment to determine compliance with environmental protection requirements.
- Respond to environmental occurrences (including releases of radioactive and hazardous materials, fires, accidents), facilitating remedial actions where needed, and preparing formal reports of occurrences when they are required.
- Conduct hazardous waste monitoring programs as required by Federal and State regulations, criteria, and standards.

ADS #:7340-00		SMS WBS 1.5.3.1.21.02		B&R#: EW3120100		Total CAP (Functional K\$): 3,092.8		G&A/CSP: 767.1		Total CAA (Program K\$): \$3,860.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date		Title	Cost Acct/Work Authority Approval		Date		
	Activity Manager	DL Mitchell				Program Administration	SB Roakes/JE Gronski				
	End Function Manager	RR Thompson				Cost Account Manager	LP Diediker				
	Program Administration	SB Roakes/JE Gronski				Activity Manager	DL Mitchell				
	Cost Account Manager	LP Diediker				End Function Manager	RR Thompson				

-1-Cost Account 1R43U2	CAA Title: Effluent & Environ Monitoring Activity Title: Effluent Monitoring	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell Octobr 1, 1993	Date Printed: November 19, 1993	Latest CR #:
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Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

- Prepare annual reports of status of effluent releases and radioactive and hazardous material contamination within the 200 and 600 Areas.
- Conduct reviews of reports, criteria, designs, procedures, excavation permits, and other documentation affecting effluent control systems or having potential for effect on the environment.
- Interpret and enforce the requirements of WMC-CM-7-5, Environmental Compliance Manual, and WMC-CM-7-4, Environmental Monitoring Manual.
- Develop and establish technical capability and credibility for surveillance and monitoring activities.

• Basis for Environmental Surveillance (by major activity):

- 200 Area environmental program
 - soil and vegetation
 - dose rate monitoring (TLD's)
 - radiological surveys
 - ambient air sampling
- Annual environmental surveillance report
- Monthly report on routine surveillances
- Support to DOE-HQ Environmental Survey and Tiger Teams (Clean Air Act, Safe Drinking Water Act, DOE Orders 5484.1, 5400.1, 5400.3 and 5820.2)
- Maintain stack, liquid, and ambient air monitoring equipment.
- Upgrade specified effluent monitoring systems to comply with regulatory requirements.
- Upgrade and maintain procedures as necessary to maintain and calibrate effluent and ambient air monitoring equipment consistent with the requirements of NQA-1.
- Perform PM, PISCES, and corrective maintenance on Near Field Constant Air Monitors (CAMS) brought to T Plant for service. In addition, assure that spare CAMS are available for field service when required.
- Performance of routine surveillance of hazardous waste satellite accumulation and <90 day storage areas

• Basis for Radioactive Effluent Monitoring (by major activity):

- Sample and analysis of active effluents
- Preparation of annual effluent monitoring reports
- Preparation and maintenance of effluent monitoring plans
- Performance of routine surveillances
- Maintenance of expertise for facility cognizance (Clean Air Act, Safe Drinking Water Act, DOE Orders 5484.1, 5400.1, 5400.3 and 5820.2)
- Reporting of hazardous waste effluents
- Support to RCRA groundwater monitoring for closure

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
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- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders ≥50K shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone.

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WMC-SP-1033

-1-Cost Account 1R43U3	CAA Title: Compliance and Technical Mgmt	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	November 19, 1993	

Resp. Org. Title / Code: Effluent & Emission Monitoring / 88420	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Cost Acct Mgr/Phone: LP Diediker 373-1716	299.9				10/01/93	09/30/94		

Funding Source: ☒ Operating Expense ☐ Line Item FY _____ ☐ GPP FY _____ ☐ Small Projects FY _____ ☐ CENRTC FY _____

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
R	RBA-94-300	Provide dose calculations for air emissions from the Hanford site.	04/01/94
R	RBA-94-310	Provide draft CY93 air emissions from the Hanford site to RL.	04/17/94
K	RBA-94-315	Provide final draft CY93 air emissions from the Hanford site to RL for HQ.	05/01/94
F	RBA-94-330	Issue CY93 annual Air Emissions Report for EPA Region X /Washington Department of Health.	06/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This is a continuing cost account to provide air emissions expertise.

• Activities include but are not limited to:

- Provide regulatory requirements for monitoring, reporting and compliance with air emission from the Hanford Site.
- Provide dose calculation for inclusion in the Calendar Year 1993 air emissions.
- Prepare draft CY-93 air emissions for internal review; resolve comments and issue draft for DOE-HQ review; resolve comment and publish cleared document for transmittal to EPA and Ecology. The annual report satisfies the requirements of 40CFR 61, Subpart H, National Emissions Standards for Hazardous Air Pollutants (NESHAPs).

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R43U3	CAA Title: Compliance and Technical Mgmt	WESTINGHOUSE HANFORD COMPANY	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring	COST ACCOUNT AUTHORIZATION	October 1, 1993	November 19, 1993	
Program/Project: RCRA & Operational Monitoring					

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
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- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

FYWP 1994

RCRA & OPERATIONAL MONITORING PROGRAM

WHC-SP-1033

-1-Cost Account 1R43U4	CAA Title: NESHAPs Compliance	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	January 4, 1994	

Resp. Org. Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Effluent & Emission Monitoring / 88420	1,005.0				10/01/93	09/30/94		
Cost Acct Mgr/Phone: LP Diediker 373-1716								

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key				DATE
TYPE	CONTROL NUMBER	DESCRIPTION		
R	RBA-94-410	Submit to the EPA a revised schedule for upgrade of the 296-A-40 monitoring system		11/30/93
R	RBA-94-440	Submit to the EPA an assessment of all remaining Registered stacks.		12/17/93
R	RBA-94-430	Submit to the EPA a request for approval of 296-A-22 monitoring system		01/07/94
R	RBA-94-450	Submit to ROM Program Office an EPA-ready assessment of all Non-Registered stacks.		07/31/94
R	RBA-94-460	Submit to ROM Program Office an EPA-ready detailed description of the monitoring systems of newly designated stacks		07/31/94

Description/Instruction (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This cost account supports the development, administration, and maintenance of National Emission Standards for Hazardous Air Pollutants (NESHAPs) compliance activities within the 200 and 600 Areas of the Hanford Site. This compliance is done in accordance with the Environmental Protection Agency (EPA) Compliance Order and Information Request: EPA Docket No.: 1092-01-23-113/114, dated February 3, 1993.

The U.S. Department of Energy, Richland Operations Office (RL) will maintain the above milestones and following activities to achieve compliance with applicable requirements of the Code of Federal Regulations (CFR) 61, Subpart H regarding the continuous measurement of point sources (stacks or vents) of radioactive emissions to the air.

Tasks include but are not limited to:

- Scheduling and tracking completion of continuous measurement system upgrades and/or requests for approval of samples and flow measurement equipment for the existing seven significant stacks, i.e., PUREX (291-A-1), PFP (291-Z-1), B Plant (291-B-1), T Plant (291-T-1), 340 WASTE HANDLING FACILITY (340-WT-EX), 242-A EVAPORATOR (296-A-22), and 241-AP TANK FARM EXHAUST (296-A-40).
- Developing and meeting milestones for identifying and evaluating any other RL point sources of radioactive airborne emissions and completing assessments to determine which, if any, are subject to 40 CFR 61, Subpart H continuous measurement requirements.
- Developing and meeting milestones for gaining approval of or upgrading existing measurement systems of 10 stacks (assessment is still in progress) identified to be possible significant stacks in the Calendar Year (CY) 1993 stack assessment and to be subject to 40 CFR 61, Subpart H, continuous measurement requirements.

ADS #:7340-00		SMS WBS 1.5.3.1.21.04		B&R#: EV3120100		Total CAP (Functional K\$): 843.4		G&A/CSP: 161.6		Total CAA (Program K\$): 1,005.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date					
	Activity Manager	DL Mitchell		Program Administration	SB Roakes/JE Gronski						
	End Function Manager	RR Thompson		Cost Account Manager	LP Diediker						
	Program Administration	SB Roakes/JE Gronski		Activity Manager	DL Mitchell						
	Cost Account Manager	LP Diediker		End Function Manager	RR Thompson						

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43U4	CAA Title: NESHAPs Compliance	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Effluent Monitoring		October 1, 1993	January 4, 1994	

Description/Instruction (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statuting of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WHC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WHC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone.

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RCRA & OPERATIONAL MONITORING PROGRAM

WMC-SP-1033

-1-Cost Account 1R43V1	CAA Title: Cribbs, Ponds & Ditches	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

Resp. Org. Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Waste Tank Facility Operations / 7C100	834.8				10/01/93	09/30/94		
Cost Acct Mgr/Phone: WE Ross 373-4565								

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
		N/A	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

Provide operations, maintenance and engineering support for the separations areas cribs, ponds, and ditches in compliance with WMC Operations Procedures.

Task include but are not limited to:

- Perform all surveillance of cribs, ponds and ditches to include:
 - Drywell monitoring of active sites
 - Pond level monitoring
 - Crib level monitoring
 - Effluent flow rate measurements
- Perform maintenance of cribs, ponds and ditches to include:
 - Dredging of ditches and ponds (also drying out) as required to maintain flow and infiltration rate
 - Water meters
- Prepare and/or revise procedures as required.
- Provide surveillance data analysis and trend reporting.
- Provide support for B Pond piezometer measurements.
- Waste burial assessment will be change requested if needed.
- Complete FY-1994 selective herbicide spraying.

ADS #:7340-00		SMS WBS 1.5.3.1.22.01		B&R#: EW3120100		Total CAP (Functional K\$): 661.5		G&A/CSP: 173.2		Total CAA (Program K\$): \$834.8	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date		Title	Cost Acct/Work Authority Approval		Date		
	Activity Manager	DL Mitchell				Program Administration	SB Roakes/JE Gronski				
	End Function Manager	RR Thompson				Cost Account Manager	WE Ross				
	Program Administration	SB Roakes/JE Gronski				Activity Manager	DL Mitchell				
	Cost Account Manager	WE Ross				End Function Manager	RR Thompson				

-1-Cost Account 1R43V1	CAA Title: Crib, Ponds & Ditches Activity Title: Environmental Monitoring	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell October 1, 1993	Date Printed: November 19, 1993	Latest CR #:
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-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

AS FUNDING IS MADE AVAILABLE; complete safety items as follows:

High Priority

200 Areas Crib Vegetation Control
Facility Transfers

- Schedule and fund regular applications of herbicide to control vegetation in the 200 Area Crib.
- Isolate inactive pond/crib/ditch facilities and transfer ownership to Decontamination and Decommissioning.

Medium Priority

216-U-14, T-4-2, B-33 Ditch/B-3C Pond Dredging
216-Z-20 Crib
Facility Signs

- Ditches are filled with thick vegetation which must be removed and the ditch dredged.
- Drill holes through crib to improve percolation rates.
- A number of facility have missing or faded signs which should be replaced/repainted.

Low Priority

216-All Facility-General Site Cleanup
216-B-3B Pond, T-4-2 Ditch Liquid level Stakes

- Debris and old equipment laying about the sites need to be cleaned up and properly disposed of.
- If mandated by Ecology, DOE or EPA liquid level staff gages will be installed in active ditches as part of RCRA Compliance. Stakes are to be procured and installed after surveys are completed.

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders ≥50K shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

FYWP 1994

RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43V2	CAA Title: Seismic Monitoring	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete	
Geophysics / 81234	505				10/01/93	09/30/94			
Cost Acct Mgr/Phone: NH Rasmussen 376-5406									

Funding Source: [X] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones				TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key				
TYPE	CONTROL NUMBER	DESCRIPTION						DATE
F	RBB-94-210	Issue the FY93 Annual Hanford Network Catalog of seismic events						12/31/93
R	RBB-94-220	Issue Draft Annual Regional Network Bulletin						09/30/94
F	RBB-95-210	Issue the FY94 Annual Hanford Network Catalog of seismic events						12/31/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

Reference: Letter, AJ Rizzo to WM Jacobi, 'Retention of Seismic Monitoring Capability on the Hanford Site and Eastern Washington', SED:JEM, April 20, 1988. The scope of the seismic monitoring program encompasses the Hanford Site and Eastern Washington. The objective is to maintain seismic surveillance of the Hanford Site and surrounding portions of Eastern Washington.

- Activities include but are not limited to:
 - Maintain minimum required seismic monitoring capabilities for determining location and magnitude of local earthquakes to Hanford facilities.
 - Maintain an historical seismic monitoring data base.
 - Maintain ability to evaluate and report seismic activities.
 - Interpret the continuing seismicity at and around Hanford.
- Perform overall technical, administrative, and seismic network maintenance and reporting to include:
 - Negotiation and monitoring of a yearly contract with the University of Washington for reporting all events recorded by the regional network via a yearly catalog. Quarterly "preliminary" catalogs are also provided.
 - Interpretation of seismic data from the Hanford array and reporting all events recorded by the Hanford network via yearly catalog.
 - Maintain all seismic stations in the regional and Hanford arrays.
- Provide a schedule for FY 1994 planned maintenance and upgrade of seismic stations. Use this schedule to status the performance of this cost account.

ADS #:7340-00		SMS WBS 1.5.3.1.22.02	B&R#: EW3120100	Total CAP (Functional K\$): 399.2	G&A/CSP: 105.8	Total CAA (Program K\$): \$505.0
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date
	Activity Manager	DL Mitchell		Program Administration	SB Roakes/JE Gronski	
	End Function Manager	RR Thompson		Cost Account Manager	NH Rasmussen	
	Program Administration	SB Roakes/JE Gronski		Activity Manager	DL Mitchell	
	Cost Account Manager	NH Rasmussen		End Function Manager	RR Thompson	

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43V2	CAA Title: Seismic Monitoring	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HAMFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
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- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to MHC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

WHC-SP-1033

-1-Cost Account 1R43V3	CAA Title: Inactive Crib Monitoring	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Geophysics / 81234					10/01/93	09/30/94		
Cost Acct Mgr/Phone: JW Fassett 376-4224	1,355.0							

Funding Source: ☒ Operating Expense ☐ Line Item FY _____ ☐ GPP FY _____ ☐ Small Projects FY _____ ☐ CENRTC FY _____

-2-Controlled Milestones				TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key				DATE
TYPE	CONTROL NUMBER	DESCRIPTION						
R	RBB-94-305	Update the Vadose Zone Monitoring Plan						09/30/94
R	RBB-94-310	Complete Calibration RPT Phase IV, for RLS						09/30/94
R	RBB-94-320	Complete Baseline Logging of wells (~60 wells)						09/30/94
R	RBB-94-330	Prepare status report of data for logged wells						09/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account is responsive to a DOE directive to initiate vadose zone monitoring. Refinements in data collection, analysis and interpretation continue to require upgrading of equipment and instrumentation to keep abreast of the advancing requirements from the regulators and DOE. This requires attention to the items listed below and a continued effort to keep abreast of industry improvements in logging tool designs.

Activities include but are not limited to:

- Perform the following tasks, within budget limitations, to support startup of the spectral gamma logging for inactive crib facilities:
 - Participate in a CRADA for the installation of the nuclear logging calibration models.
 - Refine spectral gamma ray interpretation methods.
 - Calibrate RLS spectral gamma logging system Phase IV (including experimental work at DOE-GJ facility.), and RLS II, Phase I.
 - Refine RLS depth measurement instrumentation.
 - Make RLS II Operational.
 - Continue baselining active and inactive waste sites.
 - Update Vadose Zone Monitoring Plan, if required.

ADS #:7340-00		SMS WBS 1.5.3.1.22.03		B&R#: EW3120100		Total CAP (Functional K\$): 1,089.6		GIA/CSP: 265.4		Total CAA (Program K\$): \$1,355.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date		Title	Cost Acct/Work Authority Approval		Date		
	Activity Manager	DL Mitchell				Program Administration	SB Roakes/JE Gronski				
	End Function Manager	RR Thompson				Cost Account Manager	JW Fassett				
	Program Administration	SB Roakes/JE Gronski				Activity Manager	DL Mitchell				
	Cost Account Manager	JW Fassett				End Function Manager	RR Thompson				

APPENDIX 7

FYWP 1994

RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43V3	CAA Title: Inactive Crib Monitoring Activity Title: Environmental Monitoring	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell October 1, 1993	Date Printed: November 19, 1993	Latest CR #:
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-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
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- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to MHC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43V4	CAA Title: Envir Surveillance HPT	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Site Surveillance Health Physics / 33140								
Cost Acct Mgr/Phone: DS Gunnink 373-4286	1,080.9				10/01/93	09/30/94		

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones				TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key				DATE
TYPE	CONTROL NUMBER	DESCRIPTION						
R	RBB-94-401	Issue a letter to the program office summarizing 1st Quarter FY94 status.						12/31/93
R	RBB-94-402	Issue a letter to the program office summarizing 2nd Quarter FY94 status.						03/31/94
R	RBB-94-403	Issue a letter to the program office summarizing 3rd Quarter FY94 status.						06/30/94
R	RBB-94-404	Issue a letter to the program office summarizing 4th Quarter FY94 status.						09/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account provides for the routine and emergency collection of Environmental samples. Health Physics Technicians (HPTs) perform radiological surveys of Westinghouse Hanford Company (WHC) stabilized sites, cribs, ponds and ditches to monitor and quantify contamination spreads. The HPTs assigned are designated emergency response personnel. This account provides for one supervisor to ensure completion of these tasks. The activities are performed to comply with the following DOE orders: DOE Radiological Control Manual, DOE 5400.5, DOE 5484.1 and DOE/EH-173T.

Tasks include but are not limited to:

- Operate and Maintain the following Emergency Response Vehicles:

CAR 71:

Car 71 is tasked with performing outdoor surveys and samples. This includes approximately 165 surveys and 120 samples. The quarterly environmental TLD program is handled by this car also. Car 71 is designated as a HP emergency response vehicle. Total HP support is 1.0 HPT's.

CAR 20:

Car 20 is involved in taking weekly water and bi-weekly air samples. This includes taking approximately 1150 air samples and 550 water samples. The HPT assigned is responsible for ensuring that proper records, chain-of-custody and sampling equipment are maintained for these samples. Additionally the HPT is responsible for nitrate and Tritium sampling, 9 outdoor surveys and special surveys on request. Car 20 is also designated an HP emergency response vehicle. Total HP support is 1.0 HPT's.

ADS #: 7340-00		SMS WBS 1.5.3.1.22.04		B&R#: EW3120100		Total CAP (Functional K\$): 857.2		G&A/CSP: 223.7		Total CAA (Program K\$): \$1,080.9	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date		Title	Cost Acct/Work Authority Approval		Date		
	Activity Manager	DL Mitchell				Program Administration	SB Roakes/JE Gronski				
	End Function Manager	RR Thompson				Cost Account Manager	DS Gunnink				
	Program Administration	SB Roakes/JE Gronski				Activity Manager	DL Mitchell				
	Cost Account Manager	DS Gunnink				End Function Manager	RR Thompson				

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RCRA & OPERATIONAL MONITORING PROGRAM

WMC-SP-1033

-1-Cost Account 1R43V4	CAA Title: Envir Surveillance HPT	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr DL Mitchell	Date Printed:	Latest CR #:
	Activity Title: Environmental Monitoring		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

- CAR 74:
Car 74 performs outdoor surveys and collects soil and vegetation samples. Approximately 90 surveys are performed and over 200 soil and vegetation samples are collected. This includes aquatic sampling. Car 74 is a designated HP emergency response vehicle. Total HP support is 1.3 HPT's.
- MSCM:
The Mobil Surface Contamination Monitor (MSCM) completes approximately 80 surveys of large outdoor sites. It is fitted with special radiation monitoring equipment. The MSCM is also closely involved in special surveys conducted for Decommissioning and Decontamination Projects and for special projects in the planning stages. Use of this tractor is shared with other groups to ensure good use of resources. Total HP support for MSCM is 0.8 HPT's.
- CAR 812:
This vehicle was previously used by PNL for road and rail monitoring. It continues to function in that capacity by monitoring the Hanford Site improved roads and railways. It is also closely involved in special surveys conducted for Decommissioning and Decontamination Projects and for special projects in the planning stages. Total HP support for MSCM is 0.6 HPT's.
- CAR 22:
This vehicle is used for emergency response purposes. It houses a high volume diesel powered air sampler.
- Support for this program includes one Lead Assignment SHPT who coordinates the administrative and technical aspects of the Operational Environmental Monitoring Program (OEMP).

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly status of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
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- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 1R43Z1	CAA Title: Monitor/Assess Liquid Effluent	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Monitor & Assess Basins		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code: -TBD-	Original Budget (K\$) -0-	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start 10/01/93	Complete 09/30/94	Rev. Start	Complete
Cost Acct Mgr/Phone: -TBD-								

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones				TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key			
TYPE:	DATE:	DESCRIPTION:					
NONE							

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)	
THIS COST ACCOUNT IS NOT FUNDED	
<p>OBJECTIVE:</p> <p>The objective of this Cost Account is to monitor and assess large liquid effluent storage basins, both active and inactive, located in the 100 and 300 Areas which are adjacent to the Columbia River and contain hazardous and/or radioactive liquids. This assessment is to evaluate the potential for impact to the groundwater and ultimately the Columbia River.</p> <p>Activities include but are not limited to:</p> <ul style="list-style-type: none"> Evaluation of basin facilities along the Columbia River to determine which of these facilities contain hazardous and/or Radioactive liquids capable of impacting groundwater or river water. Evaluation of existing groundwater composition data for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. The purpose of the evaluation is to determine whether that facility has already impacted the aquifer. Preparation of characterization reports for each facility containing hazardous and/or radioactive liquids capable of impacting groundwater or river water. These reports will contain the geologic and hydrologic information necessary to design a site specific groundwater monitoring plan. 	

ADS #: 7340-00	SMS WBS 1.5.3.1.19.01	B&R#: EW3120100	Total CAP (Functional K\$): -0-	GEA/CSP: -0-	Total CAA (Program K\$): \$-0-
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski
	End Function Manager	RR Thompson		Cost Account Manager	-TBD-
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York
	Cost Account Manager	-TBD-		End Function Manager	RR Thompson

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-1-Cost Account 1R43Z1	CAA Title: Monitor/Assess Liquid Effluent	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: Monitor & Assess Basins		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

- Preparation of a schedule to have necessary, site-specific, groundwater monitoring plans in place.
- Preparation of site-specific groundwater monitoring plans for those facilities deemed capable of impacting groundwater or river water.
- Sampling and analysis of groundwater to monitor for facility impact on the environment. Annual reporting of sampling and analysis results.
- Installation of new groundwater monitoring wells at needed locations such that each facility has a minimum acceptable monitoring well network

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CM-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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-1-Cost Account 1R42G1	CAA Title: GW Well Planning	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Install		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code: RCRA Geohydrology / 81235	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Cost Acct Mgr/Phone: RL Jackson 372-3501	300				10/01/93	09/30/94		

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION	
R	RAG-94-100	Complete FY-1993 Data report with Geo Logs and Well Completions	03/31/94
R	RAG-94-110	Submit Groundwater monitoring plans for calendar year 1995 well sites	09/30/94

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account coordinates activities associated with the design, placement, and requirements for groundwater monitoring at RCRA regulated facilities. All activities are to be performed in accordance with WAC-173-160, WMC-CN-7-7, and all applicable safety, QA and environmental requirements.

Activities include but are not limited to:

- Preparation and issuance of approved ECNs to site specific groundwater monitoring plans that support the applicable annual TPA interim milestone (M24-00).
- Preparation of approved datasheets to supplement groundwater well specifications.
- Complete engineering studies to support Geoscience Activities.
- Complete and submit to project files, all necessary data from groundwater monitoring wells installed under W-152. This data will be used to prepare site specific characterization reports in support of RCRA Part B Permit applications.
- Identify, review, and update groundwater monitoring plans that support the applicable annual TPA interim milestone (M24-00).
- Prepare Borehole Completion Data Packages for sites completed in CY-1993.
- Initiate Borehole Completion Data Packages for sites completed in FY-1994 for inclusion in the CY-94 report. Complete reports for wells completed before 3/31/94.

ADS #:7340-01	SMS WBS 1.5.3.2.17.01	B&R#: EW3130030	Total CAP (Functional K\$): 241.2	G&A/CSP: 58.8	Total CAA (Program K\$): 300.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski	
	End Function Manager	RR Thompson		Cost Account Manager	RL Jackson	
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York	
	Cost Account Manager	RL Jackson		End Function Manager	RR Thompson	

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RCRA & OPERATIONAL MONITORING PROGRAM

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-1-Cost Account 1R42G1	CAA Title: GW Well Planning	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Install		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

APPENDIX 7B

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RCRA & OPERATIONAL MONITORING PROGRAM

WHC-SP-1033

-1-Cost Account 1R42G2	CAA Title: Project Support for GW Wells	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Installation		October 1, 1993	November 19, 1993	

Resp. Org.Title/Code: Environmental Projects / 24320	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Complete	Rev. Start	Complete	
Cost Acct Mgr/Phone: JF Keller 372-0239	738.0				10/01/93	09/30/94			

Funding Source: [XX] Operating Expense [] Line Item FY [] GPP FY [] Small Projects FY [] CENRTC FY

-2-Controlled Milestones		TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key	DATE
TYPE	CONTROL NUMBER	DESCRIPTION	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account provides project management and technical support to Project W-152 for the installation of RCRA compliant groundwater monitoring wells. Well installation complies with the approved groundwater monitoring plans which identify the location of wells. Wells will be installed to meet the requirements imposed by MAC 173-160, Minimum Standards For Construction And Maintenance Of Wells.

Site Surveillance Health Physics : Provide health physics technicians to support the drilling operation at the well site.
 Environmental Projects : Provide overall project management. Provide facility generator and technical support on drill waste.
 Construction Projects QA : Provide construction projects quality assurance support to drilling operations.
 Personal Protective Equipment : Provide safety respiratory equipment for drilling personnel.
 Office of Sample Management : Provide RCRA approved sampling lab support as necessary to designate the potentially contaminated drill cuttings & decontamination fluids.
 Geosciences : Prepare pre-drilling procedures and documentation, Quality Assurance Plan, Groundwater Monitoring plans. Support the project by supplying field geologists and providing geophysical logging to support drilling.

ADS #:7340-01	SMS WBS 1.5.3.2.17.02	B&R#: EW3130030	Total CAP (Functional K\$): 598.5	G&A/CSP: 139.5	Total CAA (Program K\$): 738.0	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date
	Activity Manager	MT York		Program Administration	SB Roakes/JE Gronski	
	End Function Manager	RR Thompson		Cost Account Manager	JF Keller	
	Program Administration	SB Roakes/JE Gronski		Activity Manager	MT York	
	Cost Account Manager	JF Keller		End Function Manager	RR Thompson	

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-1-Cost Account 1R42G2	CAA Title: Project Support for GW Wells	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Installation		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)**GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:**

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable WMC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to WMC-CX-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 3R42G3	CAA Title: Project W-152 Well Installation	COST ACCOUNT AUTHORIZATION WESTINGHOUSE HANFORD COMPANY Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Installation		October 1, 1993	November 19, 1993	

Resp. Org./Title/Code:	Original Budget (K\$)	Budget Prior Revision	Changes This Revision	Current Total Budget	Original Start	Original Complete	Rev. Start	Rev. Complete
Environmental Projects / 24320	3385.7				10/01/93	09/30/94		
Cost Acct Mgr/Phone: JF Keller 372-0239								

Funding Source: ☐ Operating Expense ☒ Line Item FY 94 ☐ GPP FY ☐ Small Projects FY ☐ CENRTC FY

-2-Controlled Milestones					TYPE: T = Tri-Party Agreement M = Major DOE-HQ F = Field Office K = Major DOE-RL R = Westinghouse Key		DATE
TYPE	CONTROL NUMBER	DESCRIPTION					
T	RAG-94-305	M-24-00E	Install up to 50 RCRA groundwater monitoring wells in CY 1993 (if required)				12/31/93
T	RAG-94-330	M-24-30	Install 1 more RCRA wells by 1325-M Crib (3 Total)				12/31/93
T	RAG-94-331	M-24-31	Install 2 more RCRA wells by Low Level Burial Grounds (LLBG)				12/31/93
T	RAG-94-332	M-24-32	Install 3 more RCRA wells by Grout Test Facilities (GTF)				12/31/94
T	RAG-95-306	M-24-00F	Install up to 50 RCRA groundwater monitoring wells in CY 1994 (if required)				12/31/93
R	RAG-94-360		Install 6 RCRA groundwater monitoring wells by U-14 Ditch				

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

This Cost Account provides project management and technical support to Project W-152 for the installation of RCRA compliant groundwater monitoring wells. Well installation complies with the approved groundwater monitoring plans which identify the location of wells. Wells will be installed to meet the requirements imposed by MAC 173-160, Minimum Standards For Construction And Maintenance Of Wells.

Site Surveillance Health Physics : Provide health physics technicians to support the drilling operation at the well site.

Environmental Projects : Provide overall project management. Provide facility generator and technical support on drill waste.

Construction Projects QA : Provide construction projects quality assurance support to drilling operations.

Personal Protective Equipment : Provide safety respiratory equipment for drilling personnel.

Office of Sample Management : Provide RCRA approved sampling lab support as necessary to designate the potentially contaminated drill cuttings & decontamination fluids.

Geosciences : Prepare pre-drilling procedures and documentation, Quality Assurance Plan, Groundwater Monitoring plans. Support the project by supplying field geologists and providing geophysical logging to support drilling.

ADS #:7340-01		SMS WBS 1.5.3.2.17.13		B&R#: EW3130030		Total CAP (Functional K\$): 3385.7		G&A/CSP: -0-		Total CAA (Program K\$): \$3385.7	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning	Date	Title	Cost Acct/Work Authority Approval	Date					
	Activity Manager	RR Thompson		Program Administration	SB Roakes/JE Gronski						
	End Function Manager	RR Thompson		Cost Account Manager	JF Keller						
	Program Administration	SB Roakes/JE Gronski		Activity Manager	RR Thompson						
	Cost Account Manager	JF Keller		End Function Manager	RR Thompson						

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RCRA & OPERATIONAL MONITORING PROGRAM

MHC-SP-1033

-1-Cost Account 3R42G3	CAA Title: Project W-152 Well Installation	WESTINGHOUSE HANFORD COMPANY COST ACCOUNT AUTHORIZATION Program/Project: RCRA & Operational Monitoring	Activity Mgr MT York	Date Printed:	Latest CR #:
	Activity Title: RCRA GW Well Installation		October 1, 1993	November 19, 1993	

-3-Description/Instructions (Scope, objectives, approach, constraints, further milestone definition) (capital justification)

GENERAL COST ACCOUNT MANAGER (CAM) REQUIREMENTS:

- Level 1, 2, and 3 schedules as well as more detailed, functional schedules as requested, shall be prepared showing the time phasing and relationships of the work elements which make up this task. It will include start and completion dates for each of the work elements and any associated products. The Cost Account Manager is responsible for the development, support, and monthly statusing of Level 5 schedules. The CAM may approve changes to level 5 schedules provided changes do not affect higher level scope, schedule or budget.
- The CAM shall include the Program Office on distribution for highlights/status reports (achievements, information and problems).
- The CAM is responsible to ensure that this task is executed in accordance with the applicable MHC procedures. If procedures are required and do not exist it is the responsibility of the CAM to identify and plan resources to establish procedures prior to proceeding with the work.
- The CAM shall provide support within the CAP for the following activities as they apply to this specific Cost Account: (1) training, (2) quality assurance, (3) data/records management, and (4) planning and reporting [cost, schedule, and scope].
- Statements of Work and task authorizations for Basic Ordering Agreement type contracts and external work orders $\geq 50K$ shall be copied to the program office.
- All actions that impact the cost, scope, or schedule outside the approved CAA will be provided in writing on a Change Request and approved according to MHC-CN-2-5. All Change Requests shall follow MCS requirements and be submitted in adequate time to be processed prior to the impacted milestone or effective date.

ADS #:7340-01		SMS WBS 1.5.3.2.17.13		B&R#: EW3130030		Total CAP (Functional K\$): 3385.7		GLA/CSP: -0-		Total CAA (Program K\$): \$3385.7	
-4- Distribution Orig - PBR (1) Prog Ctrl CAA File (2) End Function Manager (3) Activity Manager (4) Program Scheduler (5) Cost Acct Manager	Title	Authority to Initiate Planning		Date	Title	Cost Acct/Work Authority Approval		Date			
	Activity Manager	RR Thompson			Program Administration	SB Roakes/JE Gronski					
	End Function Manager	RR Thompson			Cost Account Manager	JF Keller					
	Program Administration	SB Roakes/JE Gronski			Activity Manager	RR Thompson					
	Cost Account Manager	JF Keller			End Function Manager	RR Thompson					

RCRA & OPERATIONAL MONITORING PROGRAM

WHC-SP-1033

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WBS 1.5.3

Appendix Section 7C

7C. FY 1994 Milestone Description Sheets

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RCRA & OPERATIONAL MONITORING PROGRAM

FYWP 1994 WBS 1.5.3

MILESTONE DESCRIPTION SHEETS

TITLE : ISSUE 2ND QTR CY93 RPT FOR RCRA GRDWTR MONITORIN
DUE DATE: 10/31/93 **DATE COMPLETED:** //
REV DATE: //
SMS ID: RAC-94-202 **ADS =** 7340-0 **CIN AUTHORITY:** Five Year Plan FY95
ASSIGNEE: WBS 1.5.3 RCRA MONITORING **MILESTONE ID:** 1R43C20A0193072A
HQ WBS : 3.7.6.7 **SITE WBS =** 1.5.3.1.13.02 **FY94 WHC WBS =** R43C2
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL { } REGULATORS {X} OTHER
DESCRIPTION: Issue 2nd Quarter CY93 report for RCRA groundwater monitoring program to state & federal regulators
 Formal transmittal of the Report to the U.S. Department of Energy - Richland Operations Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager J.S. SCHMID
 Activity Manager M.T. YORK
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON *11/9/93* Date
 DOE Monitor *m. j. furman* M.J. FURMAN *12/7/93* Date

TITLE : ISSUE 3RD QTR CY93 RPT FOR RCRA GRDWTR MONITORIN
DUE DATE: 01/31/94 **DATE COMPLETED:** //
REV DATE: //
SMS ID: RAC-94-203 **ADS =** 7340-0 **CIN AUTHORITY:** Five Year Plan FY95
ASSIGNEE: WBS 1.5.3 RCRA MONITORING **MILESTONE ID:** 1R43C20A0193073A
HQ WBS : 3.7.6.7 **SITE WBS =** 1.5.3.1.13.02 **FY94 WHC WBS =** R43C2
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL { } REGULATORS {X} OTHER
DESCRIPTION: Issue 3rd Quarter CY93 report for RCRA groundwater monitoring program to state & federal regulators
 Formal transmittal of the Report to the U.S. Department of Energy - Richland Operations Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager J.S. SCHMID
 Activity Manager M.T. YORK
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON *11/19/93* Date
 DOE Monitor *m. j. furman* M.J. FURMAN *12/7/93* Date

Liquid Waste Disposal

RCRA & OPERATIONAL MONITORING PROGRAM

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MILESTONE DESCRIPTION SHEETS

TITLE : CY93 GRD WTR MONITORING REPORT TO STATE/FEDERAL
DUE DATE: 03/01/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RAC-94-220 **ADS = 7340-0** **MILESTONE ID:** 1R43C20A0193101A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.13.02** **FY94 WHC WBS = R43C2**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL {X} REGULATORS {X} OTHER DOE REVIEW
DESCRIPTION: Issue CY93 groundwater monitoring report to state & federal regulators
 Formal transmittal of the Report to the U.S. Department of Energy - Richland Operations
 Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager J.S. SCHMID
 Activity Manager M.T. YORK
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON 11/19/93 Date
 DOE Monitor *M.J. Furman* M.J. FURMAN 12/7/93 Date

TITLE : ISSUE 4TH QTR CY93 RPT FOR RCRA GRDWTR MONITORIN
DUE DATE: 04/30/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY95
SMS ID: RAC-94-204 **ADS = 7340-0** **MILESTONE ID:** 1R43C20A0193074A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.13.02** **FY94 WHC WBS = R43C2**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL { } REGULATORS {X} OTHER
DESCRIPTION: Issue 4th Quarter CY93 report for RCRA groundwater monitoring program to state &
 federal regulators
 Formal transmittal of the Report to the U.S. Department of Energy - Richland Operations
 Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager J.S. SCHMID
 Activity Manager M.T. YORK
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON 11/19/93 Date
 DOE Monitor *M.J. Furman* M.J. FURMAN 12/7/93 Date

RCRA & OPERATIONAL MONITORING PROGRAM

FYWP 1994 WBS 1.5.3

MILESTONE DESCRIPTION SHEETS

TITLE : ISSUE 1ST QTR CY94 RPT FOR RCRA GRDWTR MONITORIN
DUE DATE: 07/31/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY95
SMS ID: RAC-94-211 **ADS = 7340-0** **MILESTONE ID:** 1R43C20A0194071A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.13.02** **FY94 WHC WBS = R43C2**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL { } REGULATORS {X} OTHER
DESCRIPTION: Issue 1st Quarter CY94 report for RCRA groundwater monitoring program to state & federal regulators
Formal transmittal of the Report to the U.S. Department of Energy - Richland Operations Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager J.S. SCHMID
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson 11/19/92 Date
DOE Monitor M.J. Furman 12/1/92 Date

TITLE : ISSUE FY93 WELL REMEDIATION/DECOMM STATUS TO RL
DUE DATE: 12/31/93 **DATE COMPLETED:** //
REV DATE: 11/30/92 **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RAD-94-100 **ADS = 7340-0** **MILESTONE ID:** 1R43D1010A9301A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.14.01** **FY94 WHC WBS = R43D1**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: { } REPORT { } LETTER { } DRAWING {X} OTHER
ADDRESSEE: { } HQ {X} RL { } REGULATORS { } OTHER
DESCRIPTION: Issue FY93 well remediation and decommissioning status report to RL
Review the requirements governing RCRA well remediation and decommissioning and report the current status of Hanford RCRA wells by formal letter. Transmittal to the U.S. Department of Energy-Richland Operations Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager D.J. MOAK
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson 11/19/93 Date
DOE Monitor M.J. Furman 3/1/94 Date

RCRA & OPERATIONAL MONITORING PROGRAM

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MILESTONE DESCRIPTION SHEETS

TITLE : REVIEW GRDWTR PROTECT. MGMT PLN (DOE/RL 89-12)
DUE DATE: 09/30/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RAC-94-130 **ADS = 7340-0** **MILESTONE ID:** 1R43C10HOA94001A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.13.01** **FY94 WHC WBS = R43C1**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: { } REPORT { } LETTER { } DRAWING {X} OTHER PLAN
ADDRESSEE: { } HQ {X} RL { } REGULATORS { } OTHER
DESCRIPTION: FY94 Review the groundwater protection management plan (RL 89-12)
Review the requirements governing Groundwater Protection Plans and report the current status of the Groundwater Protection plan by formal letter. Transmittal to the U.S. Department of Energy-Richland Operations Office constitutes completion.
RESPONSIBLE Scheduler STEVE B ROAKES
PARTIES: Cost Account Manager D.G. HORTON
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson R.R. THOMPSON 11/19/93 Date
DOE Monitor M.J. Furman M.J. FURMAN 12/2/93 Date

TITLE : M-24-00E INSTALL UP TO 50 RCRA GW WELLS IN CY93
DUE DATE: 12/31/93 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** FYWP FY92 Baseline
SMS ID: RAG-94-305 **ADS = 7340-01** **MILESTONE ID:** 3R43G3.93M2400EA
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.8 **SITE WBS = 1.5.3.2.17.13** **FY94 WHC WBS = 3R43G3**
MILESTONE {X} TPA { } DOE HQ { } RL { } WHC { } FO
CLASS: KEY
DELIVERABLE: { } REPORT { } LETTER { } DRAWING {X} OTHER
ADDRESSEE: { } HQ { } RL {X} REGULATORS {X} OTHER DOE REVIEW
DESCRIPTION: M-24-00E, Install up to 50 RCRA groundwater monitoring wells in CY93 (if required)
Wells drilled, permanent casing and seals installed, developed, and ready to sample constitutes completion.
RESPONSIBLE Scheduler STEVE B ROAKES
PARTIES: Cost Account Manager J.F. KELLER
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson R.R. THOMPSON 11/19/93 Date
DOE Monitor M.J. Furman M.J. FURMAN 12/2/93 Date

RCRA & OPERATIONAL MONITORING PROGRAM

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MILESTONE DESCRIPTION SHEETS

TITLE : M-24-30E INSTALL 1 MORE RCRA WELL BY 1325-N CRI

DUE DATE: 12/31/93 **DATE COMPLETED:** 03/03/93

REV DATE: 08/03/93 **CIN AUTHORITY:** M-24-93-1

SMS ID: RAG-94-330 **ADS = 7340-01** **MILESTONE ID:** 2R43G3.93M2430EA

ASSIGNEE: WBS 1.5.3 RCRA MONITORING

HQ WBS : 3.7.6.8 **SITE WBS = 1.5.3.2.17.13** **FY94 WHC WBS = 3R43G3**

MILESTONE {X} TPA { } DOE HQ { } RL { } WHC { } FO

CLASS: KEY

DELIVERABLE: { } REPORT { } LETTER { } DRAWING {X} OTHER

ADDRESSEE: { } HQ {X} RL {X} { } OTHER DOE REVIEW

REGULATORS

DESCRIPTION: M-24-30 Install 1 more RCRA well around 1325-N Crib
Wells drilled, permanent casing and seals installed, developed, and ready to sample constitutes completion.

RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager J.F. KELLER
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO

APPROVALS: EF Manager R.R. Thompson 11/19/93 Date
DOE Monitor M.J. Furman 12/7/93 Date

TITLE : M-24-31E INSTALL 2 MORE RCRA WELLS BY LLBG (81)

DUE DATE: 12/31/93 **DATE COMPLETED:** //

REV DATE: // **CIN AUTHORITY:** FYWP-M-24-92-1

SMS ID: RAG-94-331 **ADS = 7340-01** **MILESTONE ID:** 3R43G3.93M2431EA

ASSIGNEE: WBS 1.5.3 RCRA MONITORING

HQ WBS : 3.7.6.8 **SITE WBS = 1.5.3.2.17.13** **FY94 WHC WBS = 3R43G3**

MILESTONE {X} TPA { } DOE HQ { } RL { } WHC { } FO

CLASS: KEY

DELIVERABLE: { } REPORT { } LETTER { } DRAWING {X} OTHER

ADDRESSEE: { } HQ {X} RL {X} { } OTHER DOE REVIEW

REGULATORS

DESCRIPTION: M-24-31 Install 2 more RCRA wells by Low Level Burial Grounds (81 total)
Wells drilled, permanent casing and seals installed, developed, and ready to sample constitutes completion.

RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager J.F. KELLER
Activity Manager M.T. YORK
Program Manager T.B. VENEZIANO

APPROVALS: EF Manager R.R. Thompson 11/19/93 Date
DOE Monitor M.J. Furman 12/7/93 Date

RCRA & OPERATIONAL MONITORING PROGRAM

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MILESTONE DESCRIPTION SHEETS

TITLE : M-24-32E INSTALL 3 MORE RCRA WELLS BY GTF (13)
DUE DATE: 12/31/93 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** FYWP-M-24-92-1
SMS ID: RAG-94-332 **ADS = 7340-01** **MILESTONE ID:** 3R43G3.93M2432EA
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.8 **SITE WBS = 1.5.3.2.17.13** **FY94 WHC WBS = 3R43G3**
MILESTONE {X} TPA {} DOE HQ {} RL {} WHC {} FO
CLASS: KEY
DELIVERABLE: {} REPORT {} LETTER {} DRAWING (X) OTHER
ADDRESSEE: {} HQ (X) RL (X) OTHER DOE REVIEW
REGULATORS
DESCRIPTION: M-24-32 Install 3 more RCRA wells by Grout Test Facilities (13 total)
 Wells drilled, permanent casing and seals installed, developed, and ready to sample
 constitutes completion.
RESPONSIBLE Scheduler STEVE B ROAKES
PARTIES: Cost Account Manager J.F. KELLER
 Activity Manager M.T. YORK
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON 11/14/93 Date
 DOE Monitor *M.J. Furman* M.J. FURMAN 12/7/93 Date

TITLE : ISSUE THE FY93 ANNUAL HANFORD NETWORK CATALOG
DUE DATE: 12/31/93 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY95
SMS ID: RBB-94-210 **ADS = 7340-0** **MILESTONE ID:** 1R44BBOA019437A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.22.02** **FY94 WHC WBS = R43V2**
MILESTONE {} TPA {} DOE HQ (X) RL {} WHC {} FO
CLASS: KEY
DELIVERABLE: {} REPORT {} LETTER {} DRAWING (X) OTHER
ADDRESSEE: {} HQ (X) RL {} REGULATORS {} OTHER
DESCRIPTION: Issue the FY93 annual Hanford network catalog of seismic events
 The catalogue is a WHC report on seismic network operations presenting operational data
 and observed seismic network events. This milestone is completed when the catalogue is
 transmitted to the RL monitor by memorandum.
RESPONSIBLE Scheduler STEVE B ROAKES
PARTIES: Cost Account Manager N.H. RASMUSSEN
 Activity Manager D.L. MITCHELL
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager *R.R. Thompson* R.R. THOMPSON 11/14/93 Date
 DOE Monitor *M.J. Furman* M.J. FURMAN 12/7/93 Date

RCRA & OPERATIONAL MONITORING PROGRAM

FYWP 1994 WBS 1.5.3

MILESTONE DESCRIPTION SHEETS

TITLE : CY93 TRANSMIT EIS/ODIS DATA REPORT TO INEL RL
DUE DATE: 03/31/94 **DATE COMPLETED:** //
REV DATE: //
SMS ID: RBA-94-240 **ADS = 7340-0** **CIN AUTHORITY:** Five Year Plan FY94
ASSIGNEE: WBS 1.5.3 RCRA MONITORING **MILESTONE ID:** 1R44BD0A0193001A
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.21.02** **FY94 WHC WBS = R43U2**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ {X} RL { } REGULATORS { } OTHER
DESCRIPTION: CY93--Transmit effluent information system & onsite discharge information system data to Idaho National Engineering Laboratories
This report is required to be submitted to Information Systems Branch, EG&G Idaho, Inc., by April 1. Submittal instructions are provided in Section II of the Effluent Information System & Onsite Discharge Information System (EIS/ODIS). The EIS/ODIS systems are intended to provide a permanent data base for all off/on site releases of radioactive material at DOE facilities.

RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager L.P. DIEDIKER
Activity Manager D.L. MITCHELL
Program Manager T.B. VENEZIANO

APPROVALS: EF Manager *[Signature]* R.R. THOMPSON *11/19/93* Date
DOE Monitor *[Signature]* M.J. FURMAN *12/7/93* Date

TITLE : CY93 ISS ANN RPTS ON GASEOUS & LIQ EFF DISCHARGE
DUE DATE: 07/31/94 **DATE COMPLETED:** //
REV DATE: //
SMS ID: RBA-94-260 **ADS = 7340-0** **CIN AUTHORITY:** Five Year Plan FY94
ASSIGNEE: WBS 1.5.3 RCRA MONITORING **MILESTONE ID:** 1R44BD0A0193002A
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.21.02** **FY94 WHC WBS = R43U2**
MILESTONE { } TPA { } DOE HQ { } RL { } WHC {X} FO
CLASS: KEY
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL { } REGULATORS {X} OTHER
DESCRIPTION: Issue the CY93 annual report on gaseous & liquid effluent discharge
This report presents calendar year rad/non-radiological effluent discharge data from facilities in the 1,2,3,4 & 600 areas of the Hanford Site. Solid waste storage & disposal data is furnished. Trends & comparisons to previous years are made. This report demonstrates compliance of Westinghouse Hanford Company operated facilities with applicable standards for Environmental releases.

RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager L.P. DIEDIKER
Activity Manager D.L. MITCHELL
Program Manager T.B. VENEZIANO

APPROVALS: EF Manager *[Signature]* R.R. THOMPSON *11/19/93* Date
DOE Monitor *[Signature]* M.J. FURMAN *12/7/93* Date

Liquid Waste Disposal

RCRA & OPERATIONAL MONITORING PROGRAM

FYWP 1994 WBS 1.5.3

MILESTONE DESCRIPTION SHEETS

TITLE : ISSUE CY93 REPORT ON ENVIRON SURVEILLANCE TO RL
DUE DATE: 07/31/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RBA-94-250 **ADS = 7340-0** **MILESTONE ID:** 1R44BD0A0293030A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.21.02** **FY94 WHC WBS = R43U2**
MILESTONE ☐ TPA ☐ DOE HQ ☐ RL ☐ WHC ☒ FO
CLASS: KEY
DELIVERABLE: ☒ REPORT ☐ LETTER ☐ DRAWING ☐ OTHER
ADDRESSEE: ☐ HQ ☒ RL ☐ REGULATORS ☐ OTHER
DESCRIPTION: Issue the CY93 report on environmental surveillance to RL
 Present results of near-field environmental surveillance for the Operations Area of the Hanford site, Richland, Wa. These activities are conducted in the 1,2,3,4 & 600 Areas to assess operational impact on the work environment.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager L.P. DIEDIKER
 Activity Manager D.L. MITCHELL
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson 11/17/93 Date
 DOE Monitor M.J. Furman 7/7/94 Date

TITLE : ISSUE CY93 ANNUAL AIR EMISSIONS REPORT TO EPA
DUE DATE: 06/30/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RBA-94-330 **ADS = 7340-0** **MILESTONE ID:** 1R44DE00009418A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS = 1.5.3.1.21.03** **FY94 WHC WBS = R43U3**
MILESTONE ☐ TPA ☐ DOE HQ ☐ RL ☐ WHC ☒ FO
CLASS: KEY
DELIVERABLE: ☒ REPORT ☐ LETTER ☐ DRAWING ☐ OTHER
ADDRESSEE: ☐ HQ ☐ RL ☒ REGULATORS ☒ OTHER EPA
DESCRIPTION: Issue CY93 annual air emissions report to the EPA
 Formal transmittal of the Annual Report to the U.S. Department of Energy - Richland Operations Office constitutes completion.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
 Cost Account Manager L.P. DIEDIKER
 Activity Manager D.L. MITCHELL
 Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson 4/19/93 Date
 DOE Monitor M.J. Furman 7/7/94 Date

RCRA & OPERATIONAL MONITORING PROGRAM

FYWP 1994 WBS 1.5.3

MILESTONE DESCRIPTION SHEETS

TITLE : PROVIDE DRAFT CY93 ANNUAL AIR EMISSIONS REPORT TO RL
DUE DATE: 05/01/94 **DATE COMPLETED:** //
REV DATE: // **CIN AUTHORITY:** Five Year Plan FY94
SMS ID: RBA-94-315 **ADS =** 7340-0 **MILESTONE ID:** 1R44DE00009418A
ASSIGNEE: WBS 1.5.3 RCRA MONITORING
HQ WBS : 3.7.6.7 **SITE WBS =** 1.5.3.1.21.03 **FY94 WHC WBS =** R43U3
MILESTONE CLASS: { } TPA { } DOE HQ {X} RL { } WHC { } FO
DELIVERABLE: {X} REPORT { } LETTER { } DRAWING { } OTHER
ADDRESSEE: { } HQ { } RL {X} REGULATORS {X} OTHER EPA
DESCRIPTION: Provide final draft CY93 Annual Emissions from the Hanford Site to RL for HQ. Formal transmittal of the Draft data Annual Report to the U.S. Department of Energy - Richland Operations Office constitutes completion. HQ will issue to EPA in June.
RESPONSIBLE PARTIES: Scheduler STEVE B ROAKES
Cost Account Manager L.P. DIEDIKER
Activity Manager D.L. MITCHELL
Program Manager T.B. VENEZIANO
APPROVALS: EF Manager R.R. Thompson R.R. THOMPSON 11/19/93 Date
DOE Monitor M.J. Furman M.J. FURMAN 5/7/94 Date

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Appendix Section 7D

7D. Program Element Schedule (Master Operating)

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ADS 7340-00 MASTER OPERATING SCHEDULE

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ADS 7340-01 MASTER OPERATING SCHEDULE

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Appendix Section 7E

7E. Activity Schedule (Cost Account Schedule)

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7E. Activity Schedule (Cost Account Schedule)

NOTE: Cost Account Schedules are not included in this appendix due to the sheer volume of paper involved with these schedules. These Schedules are constantly being maintained and upgraded as part of change control and Site Management System (SMS) processes. You may obtain Cost Account Schedules by contacting the ROM Program Office Scheduling Administrator at 376-6286. Thank you, in advance, for your consideration for this act of paper conservation.

RCRA & OPERATIONAL MONITORING PROGRAM

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WBS 1.5.3

Appendix Section 7F

7F. Basis of Estimate (BOE)

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WBS 1.5.3

7F. BASIS OF ESTIMATE

COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43A1 1.5.3.1.11.01	\$	98.3	88.2	129.6	111.6	92.6	138.4	103.9	159.5	193.3	153.3	150.3	154	1,573.0
	FTEs	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8.3	8.3	8.3	7.3	7.6
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43C1 1.5.3.1.13.01	\$	238	238	635	710	736	681	702	725	679	704	685	723	7,456.0
	FTEs	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43C2 1.5.3.1.13.02	\$	92	103	114	152	115	118	131	157	130	135	121	143	1,511.0
	FTEs	9.8	9.8	9.86	9.8	9.8	9.8	9.88	9.8	9.81	9.8	9.8	9.8	9.8
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43C3 1.5.3.1.13.03	\$	92	93	96	117	96	108	108	116	93	101	87	115	1,222.0
	FTEs	9.1	10.8	11	11.2	10.2	9.7	9.9	9.7	9.7	9.4	9.4	9.4	10.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												

RCRA & OPERATIONAL MONITORING PROGRAM

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WBS 1.5.3

7F. BASIS OF ESTIMATE

COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43C5 1.5.3.1.13.05	\$	51	44	50	63	56	53	54	72	63	74	56	94	730.0
	FTEs	6.2	6.2	6.2	6.1	6.2	6.2	6.2	6.1	6.2	6.2	6.2	6.1	6.2
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43C6 1.5.3.1.13.06	\$	30	33	32	30	32	33	46	33	35	39	32	63	438.0
	FTEs	6.0	6.04	6.09	6.0	6.0	6.09	6.06	6.0	6.05	6.0	6.0	6.0	6.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43D1 1.5.3.1.14.01	\$	133	119	117	142	125	129	244	293	255	275	124	444	2,400.0
	FTEs	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43Z1 1.5.3.1.19.01	\$	0	0	0	0	0	0	0	0	0	0	0	0	0.0
	FTEs	0	0	0	0	0	0	0	0	0	0	0	0	0.0
BASIS OF ESTIMATE:		THE SCOPE OF THIS ACTIVITY HAS NOT BEEN CLEARLY DEFINED AND IT IS CURRENTLY NOT A REGULATORY ISSUE. AT THIS TIME THERE IS NO INTENT TO FUND THIS ACTIVITY.												

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7F. BASIS OF ESTIMATE

COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43U1 1.5.3.1.21.01	\$	94	85	83	101	89	91	91	107	88	98	90	103	1,120.0
	FTEs	9	9.2	9.3	8.8	9.1	9.1	9	8.7	9.1	8.9	9.1	8.8	9.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43U2 1.5.3.1.21.02	\$	333	304	302	361	318	328	304	364	296	322	298	340	3,860.0
	FTEs	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43U3 1.5.3.1.21.03	\$	25	23	23	27	24	25	24	28	24	26	24	27	300.0
	FTEs	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43U4 1.5.3.1.21.04	\$	0	57.2	70	49	48.2	49	48.6	49.2	48.3	48.6	48.8	488.1	1,005.0
	FTEs	0	2.4	2.4	1.9	2.2	2.2	2.2	1.8	2.3	2.0	2.3	1.9	2.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON THE EXPECTED COSTS FOR CONDUCTING DESIGN STUDIES.												

RCRA & OPERATIONAL MONITORING PROGRAM

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WBS 1.5.3

7F. BASIS OF ESTIMATE

COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43V1 1.5.3.1.22.02	\$	62	53	57	97	67	63	64	88	57	68	58	103	835.0
	FTEs	7	7	7	7	7	7	7	7	7	7	7	7	7.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43V2 1.5.3.1.22.02	\$	41	39	40	46	40	43	40	47	42	42	40	46	508.0
	FTEs	2	2	2	2	2	2	2	2	2	2	2	2	2.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43V3 1.5.3.1.22.03	\$	60.2	99	114.8	114.6	82.1	83	108.1	99	97.8	144.4	174.6	176.8	1,354.4
	FTEs	5.7	6.7	7.7	7.7	7.8	7.9	7.9	8.3	8.3	9.2	9.2	9.2	8.0
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R43V4 1.5.3.1.22.04	\$	91	81	81	98	86	88	88	104	85	94	86	99	1,081.0
	FTEs	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												

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7F. BASIS OF ESTIMATE

COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R42G1 1.5.3.2.17.01	\$	21.2	20.1	20.3	37.7	27.5	31.3	27.7	34	25.3	18.9	15.9	20.1	300.0
	FTEs	1.4	1.5	1.4	2	2.2	2.4	2.2	2.1	1.9	1.1	.9	1	1.7
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1R42G2 1.5.3.2.17.02	\$	63.1	62.8	63.8	74.3	61	66	53.4	63.5	52	57.2	58.7	62.2	738.0
	FTEs	5.7	6.1	6.1	6	5.9	4.8	4.8	4.8	4.8	4.8	4.6	4.6	5.3
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
3R42G3 1.5.3.2.17.13	\$	276.9	143.9	148.7	149.1	170	125.6	159.6	129.5	121.1	124.5	123.1	1713.8	3,385.8
	FTEs	3.7	3.7	3.7	3.5	3.6	3.6	3.5	2.8	3.2	2.4	2.5	2.4	3.2
BASIS OF ESTIMATE:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS. DOES NOT INCLUDE FY93 B/A PLANNED FOR CARRYOVER INTO FY95.												
COST ACCOUNT		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
TOTALS (Does not include CENRTC items)	\$	1,801.7	1,686.2	2,177.2	2,480.3	2,265.4	2,253.3	2,397.3	2,656.7	2,384.8	2,524.9	2,272.4	4,915.0	29,815.2
	FTEs	143.4	149.2	150.6	149.8	149.8	148.6	148.4	146.9	149.2	147.6	147.8	146.0	148.3
COMMENTS:		94.5% OF PRESIDENT'S BUDGET PLUS SOME CARRYOVER FUNDS WERE APPLIED TO THIS COST ACCOUNT BASED ON HISTORICAL EXPERIENCE WITH PERFORMING THESE TASKS.												

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Appendix Section 7G

7G. Detailed Costs

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NOTE: Detailed Cost information is provided by the full collection of Cost Account Plans (CAPs). These are currently loaded into the Financial Data System (FDS) and a record copy is on file in the ROM Program Office. To view these you may contact The Change Control Administrator for the ROM Program Office at 376-6286. CAPs are not included in this appendix section due to the volume of paper involved and the sincere desire to minimize paper waste. Thank you, in advance, for your consideration on this issue.

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Appendix Section 7H

7H. Full Time Equivalent Staff by Job Classification

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7H. FTE STAFFING BY JOB CLASSIFICATION

JOB CLASSIFICATION		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MANAGERS	M000	12.3	11.9	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
ENGINEERS													
CHEMICAL	E010	3	3	3	3	3	3	3	3	3	3	3	3
COMPUTER	E030	0	2	4	4	4	4	4	4	4	4	2	2
ENVIRONMENTAL	E050	10	10	11	9	9	9	12	9	10	9	9	9
NUCLEAR	E080	1	1	1	1	1	1	1	1	1	1	1	1
QUALITY CONTROL	E110	1	1	1	1	1	1	1	1	1	1	1	1
SAFETY	E120	1	1	1	1	1	1	1	1	1	1	1	1
SCIENTISTS													
CHEMISTS	S010	2	2	2	2	2	2	2	2	2	2	2	2
ENVIRONMENTAL	S020	5	5	5	4	4	4	5	4	5	4	4	4
GEOLOGISTS	S030	20.3	20.3	20.3	19.3	19.3	19.3	19.3	19.3	20.3	19.3	19.3	19.3
ADMINISTRATIVE & OTHER PROFESSIONAL OCCUPATIONS													
ACCOUNTANTS & AUDITORS	P010	0	3	3	3	3	3	4	3	4	3	3	3
BUYERS, PROCUREMENT, & CONTRACTING SPECIALIST	P030	1	.5	1	1	1	1	1	1	1	1	1	1
COMPLIANCE INSPECTORS	P050	1	2	2	2	2	2	2	2	2	2	2	2
COST ESTIMATORS & PLANNERS & SCHEDULERS	P070	8.7	9.6	8.1	8.6	8.6	8.6	11.7	8.6	8.6	8.6	8.6	8.6
HEALTH PHYSICISTS	P080	1	1	1	1	1	1	1	1	1	1	1	1
INDUSTRIAL HYGIENE	P090	1	1	1	1	1	1	1	1	1	1	1	1

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7H. FTE STAFFING BY JOB CLASSIFICATION

JOB CLASSIFICATION		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
GENERAL ADMINISTRATIVE, SECRETARIAL, & CLERICAL SUPPORT													
OFFICE CLERKS (GENERAL)	G020	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
SECRETARIES	G040	5	5	5	5	5	5	5	5	5	5	5	5
TECHNICIANS													
HEALTH PHYSICS	T050	7.7	8.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
INSTRUMENT & CONTROL TECHNICIANS	T070	5	5	5	5	5	5	5	5	5	5	5	5
CRAFTS													
GENERAL CRAFTS SUMMARY	C000	34.2	34.2	34.2	30.6	31.8	31.3	33.3	31.3	34.2	31.5	32.1	32.1
OPERATORS													
LABORERS													
TOTAL		129	135	138	131	133	132	142	132	139	132	131	131

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