HAMMER

FY 1998 Multi-Year Work Plan

WBS #1.9

Date Published
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Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

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Approved for public release

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TABLE OF CONTENTS

SECTION I - PROJECT SUMMARY SECTION

1.0	Technical Baseline	1
1.1	Mission Statement	1
1.2	Boundary Diagram with Major Facilities	1
1.3	Facility Responsibility Assignment Matrix	1
1.4	Planning Assumptions	2
2.0	Project Hanford Breakdown Structure	2
2.1	PHBS Hierarchy	2
2.2	Tracking Workscope Changes from FY 1997 to FY 1998	2
3.0	Schedule Baseline	3
3.1	Project SMBS by PBS	4
4.0	Cost Baseline	6
4.1	Estimate Basis	6
4.2	Summary of Life Cycle Cost Baseline (BCWS) by Project	7
4.3	Summary of Life Cycle Budget Authority (B/A) by Project	9
4.4	Cost Baseline (BCWS) for Execution Year by Month by Fund Type	11
4.5	Cost Baseline (BCWS) for Execution Year by Month by C/E	12
5.0	Performance Measures/Matrix	13

SECTION II PROJECT BASELINE SUMMARY SECTION

1.0	Technical Baseline	15
1.1	Project Mission	15
1.2	Project End Point Targets	15
1.3	Major Facilities	16
1.3.1	Facility Description	16

TABLE OF CONTENTS

SECTION II - PROJECT BASELINE SUMMARY SECTION (Cont.)

1.0	Technical Baseline (Cont.)	
	1.3.2 Facility Technical Logic	16
	1.3.3 Life-Cycle Functional Descriptions & Requirements	17
	1.3.3.1 HAMMER Execution Program Planning Work Scope Summary	17
	1.3.3.2 HAMMER Construction Work Scope Summary	17
	1.3.3.3 HAMMER Turnover Work Scope Summary	17
	1.3.3.4 HAMMER Operations & Maintenance Work Scope Summary	17
	1.3.3.5 HAMMER Operations and Maintenance Specific Functions	18
	1.3.3.6 HAMMER Post Operations Work Scope Summary	19
	1.3.3.7 Maintain Safe & Compliant HAMMER Facility	19
	1.3.3.8 Transition HAMMER Facility	19
	1.3.3.9 HAMMER D&D Workscope Summary	19
	1.3.4 Facility Boundary Diagram	19
	1.3.5 Interface Descriptions & Summary-Level Forecast	20
1.4	Drivers	21
1.5	Risk Management	22
2.0	Work Breakdown Structure	24
	2.1 Work Breakdown Structure Hierarchy	24
	2.2 Work Breakdown Structure Dictionary	25
	2.3 Work Breakdown Structure Responsibility Assignment Matrix	26
3.0	Schedule Baseline	27
	3.1 Project Master Baseline Schedule	28
	3.2 Execution Year PBS	30
	3.3 Milestone List	34
	3.3 Milestone Description Sheets	35
4.0	Cost Baseline	57
	4.1 Life Cycle Cost Baseline (BCWS) by PBS	58
	4.2 Life Cycle Budget Authority (B/A) by PBS	60
	4.3 Execution Year Cost Baseline by Month by PBS by ADS	62
	4.4 Staffing	63
Appendix A		A-1

1.0 TECHNICAL BASELINE

1.1 Mission Statement

HAMMER is a federal training and education center developed to promote realistic, hands-on training for worker health and safety that creates a partnership among DOE, its contractors, other government agencies (Federal, state, and local), labor, tribal governments, selected institutions of higher education and the private sector. Congress first appropriated funds for the program in fiscal year 1994, as a line item.

1.2 Boundary Diagram with Major Facilities

Table A.1-1 Generators to HAMMER Project

Table A.1-2 Receivers for HAMMER Project

1.3 Facility Responsibility Assignment Matrix

Table A.1-3 Facility Responsibility Assignment Matrix

Asset	Life Cycle							
	Program Planning	Pre Conceptual	Conceptual	Execute			Close Out	
				Design	Construction	Turnover	Operations & Maintenance	Post Operations
HAMMER	RL-H1001			RL-H1001	RL-H1001	RL-H1001	RL-H1001	RL-H1001

FY 1998 Work Plan

HNH-SP-1231
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1.4 Planning Assumptions

The HAMMER planning assumptions include:

- 1) Funding is received as outlined to operate the HAMMER facility. In addition, ~ \$300K will be obtained via the FDH Indirects to assist in training of Hanford Site students.
- 2) Contracting processes will be in place to successfully host and broker training at HAMMER.

2.0 Project Hanford Breakdown Structure

2.1 PHBS Hierarchy

2.2 Tracking Workscope Changes from FY 1997 to FY 1998

PBS #	PBS Title	PHBS WBS	FY97 RL WBS	1997 ADS	1998 ADS	1999 ADS
RL-HM01	HAMMER	1.9.1.1	8.2	7221 7221-1	7221 7221-1	7221 7221-1

3.0 Schedule Baseline

3.1 Project SMBS by PBS

The HAMMER Project SMBS is located on Pages 4 & 5.

HAMMER
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FY 1998 Work Plan

HNF-SP-1231
REV 0

3.1 Project SMBS by PBS

HNF-SP-1231

REV 0

3.1 Project SMBS by PBS

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4.0 Cost Baseline

4.1 Estimate Basis

The HAMMER Program utilizes activity based costing for the preparation of the FY98 budget estimate. Definition of the operational required work scope and supporting schedule were developed at the task and sub-task level, resource loaded, quantified and estimates were calculated using planning rates and escalation defined by the FDH CFO and approved by DOE-RL. Traceability defining the estimate is provided by the unification of the estimate, resource loaded schedule, and the budget into a consolidated planning process.

4.2 Summary of Life Cycle Cost Baseline (BCWS) by Project

The HAMMER Summary Life Cycle BCWS is located on Pages 7 & 8.

4.3 Summary of Life Cycle Budget Authority (B/A) by Project

The HAMMER Summary Life Cycle B/A is located on Pages 9 & 10.

4.4 Cost Baseline (BCWS) for Execution Year by Month by Fund Type

The FY 1998 HAMMER BCWS by month by Fund Type is located on Page 11.

4.5 Cost Baseline (BCWS) for Execution Year by Month by Cost Element

The FY 1998 HAMMER BCWS by month by cost element is located on Page 12.

FY 1998 Work Plan

HNF-SP-1231

REV 0

4.2 Summary of Life Cycle Cost Baseline (BCWS) by Project

HAMMER
SUMMARY OF LIFE CYCLE COST BASELINE (BCWS) BY YEAR
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

(\$000s)

[illegible]

NOTE: REFER TO APPENDIX A FOR ADDITIONAL DETAILS

1) Life Cycle costs do not include ~\$850K per year (FY 1999 - FY 2006) for workscope associated with improving worker safety and health, and assuring training at HAMMER fulfills regulatory requirements and meets training requirements throughout the Hanford Site and DOE complex.

4.2 Summary of Life Cycle Cost Baseline (BCWS) by Project

HAMMER
SUMMARY OF LIFE CYCLE COST BASELINE (BCWS) BY YEAR
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

(\$000s)

PROJECT WBS :		1.9									
PBS TITLE	PBS NO	FY2007- FY2010	FY2011- FY2015	FY2016- FY2020	FY2021- FY2025	FY2026- FY2030	FY2031- FY2035	FY2036- FY2040	FY2041- FY2045	FY2046- FY2050	TOTAL FY1997- FY2050
HAMMER*	RL-HM01	29,291	36,614	36,614	36,614	29,293	-	-	-	-	225,847
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HAMMER
SUMMARY OF LIFE CYCLE BUDGET AUTHORITY (B/A) BY YEAR
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

PROJECT WBS :		1.9										SUBTOT
PBS TITLE	PBS NO	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	FY1997- FY2006
												-
HAMMER	RL-HM01	13,203	5,053	4,934	4,799	4,895	5,005	4,963	4,930	4,886	4,753	57,421
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TOTAL NEW B/L		13,203	5,053	4,934	4,799	4,895	5,005	4,963	4,930	4,886	4,753	57,421

1) Life Cycle costs do not include ~ \$850K per year (FY 1999 - FY 2006) for workscope associated with improving worker safety and health, and assuring training at HAMMER fulfills regulatory requirements and meets training requirements throughout the Hanford Site and DOE complex.

FY 1998 Work Plan

HNF-SP-1231
REV 0

4.3 Summary of Life Cycle Budget Authority (B/A) by Project

HAMMER
SUMMARY OF LIFE CYCLE BUDGET AUTHORITY (B/A) BY YEAR
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

(\$000s)

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4.4 Cost Baseline (BCWS) for Execution Year by Month by Fund Type

HAMMER
FY 1998 COST BASELINE (BCWS) BY MONTH BY FUND TYPE BY PROJECT
EXECUTION YEAR
(\$000s)

PROJECT WBS	PROJECT TITLE	FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL	
1.9	HAMMER	Operating Expense - FDH	378	398	357	368	368	447	388	435	379	353	427	412	4,710	
		Operating Expense - RL													343	343
		CENRTC														0
		GPP														0
		Line Item														0
		Total BCWS/PMB	378	398	357	368	368	447	388	435	379	353	427	755	4,953	
		Mgmt Reserve ²														0
		Line Item Contingency ²														0
		Offsite Transfers ²														0
Total		378	398	357	368	368	447	388	435	379	353	427	755	4,953		

HAMMER
WBS 1.9

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HNF-SP-1231
REV 0

4.5 Cost Baseline (BCWS) for Execution Year by Month by Cost Element

HAMMER
FY 1998 COST BASELINE (BCWS) BY MONTH BY COST ELEMENT BY PROJECT
EXECUTION YEAR
(\$000s)

PROJECT WBS	PROJECT TITLE	COST ELEMENT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1.9	HAMMER**	0 Salaries	157	194	149	158	168	215	169	213	162	148	203	187	2,119
		1 Material	27	21	24	25	22	26	28	23	28	25	25	25	285
		2 Purchased Serv	72	58	65	65	59	68	68	62	68	65	65	68	781
		3 Other Contr Chgs	1	1	1	0	1	1	1	1	1	0	1	1	10
		4 Internal Serv	28	22	26	29	23	27	27	25	27	26	26	27	310
		5 Internal Chgs	0	0	0	0	0	0	0	0	0	0	0	0	0
		6 LMSI	19	15	18	18	16	19	19	17	19	18	17	17	212
		7 Overheads	97	108	95	97	100	114	101	114	99	94	111	106	1,236
		8 Revenue	-29	-23	-26	-26	-24	-28	-28	-29	-28	-26	-26	-26	-315
		9 Enterprise Cos	6	4	5	5	5	5	5	5	5	5	5	7	82
		TOTAL FDH	378	506	357	369	368	447	388	435	379	353	427	412	4,710
		RL	0	0	0	0	0	0	0	0	0	0	0	343	343
Total BCWS/EMBS		378	506	357	369	368	447	388	435	379	353	427	412	4,710	

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5.0 Performance Measures/Matrix

This section will be added at a later date.

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SECTION II - PROJECT BASELINE SUMMARY (PBS) LEVEL

1.0 Technical Baseline

1.1 Project Mission

The primary purpose of HAMMER is to become the premier hands-on training center for: Environmental and Waste Management; Emergency Operations; Fire Operations; Occupational Safety and Health, Transportation, Law Enforcement and Associated Technologies.

The partnership will leverage the taxpayers investment in training for the workers and emergency responders engaged in the cleanup of the DOE sites by creating a network of training providers and customers. Nationally recognized training programs hosted at HAMMER will allow for best-in-class training available to HAMMER partners while maximizing the use of the permanent facility. HAMMER will provide training critical to the clean-up activities at Hanford and the DOE complex. HAMMER will also provide training services to non-DOE customers. As such HAMMER will be a source for economic development in the region.

The core of HAMMER is the 120-acre (80-acres developed) centralized regional training center that accommodates an array of large hands-on props, other job specific training devices and more than 30 training areas. These will allow the training providers to simulate job site activities, especially for hazardous material and emergency response challenges. This facility not only provides typical classroom training, but also realistic props and settings for hands-on training. This variety of training experience does not exist elsewhere at this time.

1.2 Project End Point Targets

HAMMER will be an operational training program well into the future. HAMMER will proactively strive for continuous improvement by brokering and hosting the finest training possible and identifying only high quality training providers to meet the needs of our customers. In addition HAMMER will seek out and promote new and innovative approaches to providing hands-on training, in particular those approaches that incorporate elements of realistic job scenarios with emphasis on health and safety practices into the curriculum. The current end state for the HAMMER program is 09/30/2030.

1.3 Major Facilities

1.3.1 Facility Description

The major facility for the HAMMER Project is the HAMMER facility.

1.3.2 Facility Technical Logic

The technical logic for the HAMMER Facility is captured in the facility's functional flow block diagram which shows the functions performed for each applicable life cycle phase of the facility and the sequence in which the functions are executed.

Figure B-2 HAMMER

1.3.3 Life-Cycle Functional Descriptions & Requirements

1.3.3.1 HAMMER Execution Program Planning Work Scope Summary

Functions that include planning and developing the overall program; establishing broad priorities; providing program technical direction; preparing and defending the program budget; controlling milestones; integrating all components of the program; providing public and private sector policy liaison; expediting interface activities and follow-up actions; and retaining overall accountability for program success.

1.3.3.2 HAMMER Construction Work Scope Summary

Construction of the HAMMER Project was completed in FY 1997. This does not apply in FY 1998.

1.3.3.3 HAMMER Turnover Work Scope Summary

Construction of the HAMMER Project was completed in FY 1997. This does not apply in FY 1998.

1.3.3.4 HAMMER Operations & Maintenance Work Scope Summary

HAMMER will host and facilitate hands-on performance based training appropriate to its customer base, facilitate training of emergency responders along the hazardous materials transportation routes, create a highly skilled workforce capable of meeting the cleanup needs of the DOE by hosting proven training programs, decrease recordable injuries and exposures while increasing productivity at Hanford, demonstrate and test new technologies in each of the Product Lines at HAMMER.

Beyond Hanford, the entire DOE complex will benefit from the training approaches demonstrated at the HAMMER facility. Thus, HAMMER will: Train to save lives and reduce injuries; Reduce training costs, and Establish a new training industry for the region.

1.3.3.5 HAMMER Operations and Maintenance Specific Functions

HAMMER will broker and host training in seven specific Product Lines:

- Environmental and Waste Management
- Emergency Operations
- Fire Operations
- Occupational Safety and Health
- Transportation*
- Law Enforcement*
- Associated Technologies*

*Product Line is in the early developmental stage and not fully funded.

The HAMMER staff will:

- As a virtual organization HAMMER will broker and host the training that best meets the needs of our customers; utilizing a quality control/quality assurance continuous improvement approach to training.
- Operate and maintain the permanent HAMMER facility to include professional operation of training equipment and props; maintenance of facilities and equipment; training support services; facility safety support; and business management.
- Form partnerships to share cost and resources, and facilitate delivery of high quality training at reduced costs.
- As a virtual organization HAMMER will broker educational and training products to other federal agencies, tribal, state, local governments and the private sector by matching needs with available resources.
- Maintain the active involvement of the HAMMER partners to ensure continued support, satisfaction and the appropriate high quality products for achieving greater worker safety and productivity.
- Further develop emergency response programs for the region and support national programs as requested by DOE.
- Evaluate new techniques and approaches to training and collect data on the efficiency of these methods so as to provide the research basis for improvement in approaches and techniques.

1.3.3.6 HAMMER Post Operations Work Scope Summary

This section does not apply to HAMMER. HAMMER does not treat, store or dispose of any waste. No additional activities will be required to allow for a safe decommissioning of the HAMMER facility.

1.3.3.7 Maintain Safe & Compliant HAMMER Facility

The facilities, structures and equipment associated with HAMMER will be maintained until they are ready for cleanup.

1.3.3.8 Transition HAMMER Facility

Initiate the transition phase of HAMMER to prepare for final demolition.

1.3.3.9 HAMMER D&D Workscope Summary

This section does not apply to HAMMER. HAMMER does not treat, store or dispose of any waste. No additional activities will be required to allow for a safe decommissioning of the HAMMER facility.

1.3.4 Facility Boundary Diagram

Table B.1-1 Generators to HAMMER

Generating Facilities	HAMMER
Infrastructure Type	HAMMER
331 Complex	
Central Plateau Shop Facilities	
South 800 Area Road System	

Table B.1-2 Receivers for HAMMER

HAMMER	Receiving Facilities
HAMMER	Undefined Type
	Offsite Sales

1.3.5 Interface Descriptions & Summary-Level Forecast

Table B1-3 Incoming Forecasted Infrastructure Streams for HAMMER

Source	Stream	Category	Period	Baseline	Units
331 Complex	<u>Non-rad Standards (Calibrations) for HAMMER</u>	Non-rad Standards (Calibrations)	1997 - 1997	60	calibrations
	Non-rad Standards (Calibrations) for HAMMER				
Central Plateau Shp Facilities	<u>Lifting (Cranes) for HAMMER</u>	Lifting (Cranes)	1997 - 1997	6	crane days
	Lifting (Cranes) for HAMMER				
South EOO Area Road System	<u>Heavy Equipment for HAMMER</u>	Heavy Equipment	1997 - 1997	6	equipment-days
	Heavy Equipment for HAMMER				
	<u>Sedans/Light Trucks for HAMMER</u>	Sedans/Light Trucks	1997 - 1997	4	no. of vehicles
	Sedans/Light Trucks for HAMMER				
	<u>Heavy Trucks for HAMMER</u>	Heavy Trucks	1997 - 1997	285	vehicle-hrs
	Heavy Trucks for HAMMER				

B1.1.3.1.5.2 Outputs from HAMMER

Table B1-4 Outgoing Streams for HAMMER with No Forecast

Stream	Status
HAMMER Training Facilities for Reuse	No forecast provided.
Surplus HAMMER training facilities for reuse outside the Hanford cleanup mission.	

FY 1998 Work Plan

HNF-SP-1231
REV 0

1.4 Drivers

The key drivers for HAMMER include:

Name	Title
Section 3140	Energy & Water Development Appropriations Bill

The various regulations and requirements pertaining to protection of workers in hazardous waste operations and emergency response include:

Name	Title
29 CFR 1910	Occupational Safety and Health Administration
10 CFR 835	Occupational Radiation Protection
40 CFR 355 Part 30	Emergency Planning & Notification
49 CFR 100-178	Transportation
SARA Title II	Superfund Amendments and Reauthorization Act of 1986
WAC 173-303 Section 355	Superfund Amendments and Reauthorization Act Title III Coordination
NFPA Standard 472	National Fire Protection Association
DOE Order 151.1	Comprehensive Emergency Management System

1.5 Risk Management

Risk Management

HAMMER is critical to delivering hands-on training to the Hanford Site. In addition HAMMER plays an extremely important role in preparing offsite emergency responders for DOE HazMat shipments. Worker safety is the #1 priority onsite and HAMMER is an integral part of achieving this priority. Thousands of workers are exposed to the risks of handling hazardous material and wastes, responding to emergencies, and environmental restoration activities. Protecting workers from lost-time injuries or longer term work-related health effects cannot be accomplished by engineering safety controls alone. The workers need systematic training appropriate to their tasks and associated risks. HAMMER's hands-on training is the most effective method to satisfy these knowledge, skill and ability (KSA) requirements. Hands-on performance based training is proven to sharply increase the retention of KSA during training. Workers and emergency responders are trained to recognize and respond appropriately to anticipated and unanticipated hazards in simulated work environments.

In 1992, the DNFSB wrote a 36 page report criticizing the training provided to workers at Hanford as inadequate to qualify them to accomplish their work assignments, and do it safely. In the publication "Hazards Ahead" Tara O'Toole also criticized the worker training programs at DOE for being inadequate to prepare the workers for the unknowns in the hazardous environments where they are required to work. There have been a number of incidents at the Hanford Site which have identified inadequate training as a contributing factor (root cause) thus validating these findings. Hanford has had two fatal accidents. There have been several water hammer incidents that have resulted in damaged equipment and near misses for severe injuries to workers. There have been a number of accidents and near accidents related to crane operations. The lack of appropriate emergency response training in the explosion at PFP resulted in inappropriate and untimely emergency response and emergency notifications, and inadequate handling and treatment of exposed workers.

The HAMMER risk evaluation narrative is shown below:

1) PUBLIC SAFETY AND HEALTH:	2B-M
JUSTIFICATION:	

If not funded, workers and emergency responders will not receive the essential hands-on training needed to safely perform their work. Proper training in Environmental/Waste Management, Emergency Operations, Fire Operations, Occupational Safety and Health, Transportation, and Law Enforcement is

essential to ensure public safety. Workers and emergency responders may be ill prepared to provide assistance required in the event of an emergency thus increasing the health and safety risks of workers and emergency responders. Also, the capabilities of providing training for foreign border interdiction personnel would be severely limited until developed elsewhere - approximately 5-10 years. With the downsizing at Hanford resulting in the loss of skilled senior personnel, HAMMER's mission is essential to ensure the existing workforce maintains the skills necessary to protect the health and safety of the public. Also, Hanford's changing mission requires retraining of the existing workforce to clean up the most dangerous waste site in the United States. DOE would not meet its commitment to ensure public and private entities along transportation corridors are properly trained. Consequently there is a potential of releases affecting the public with eventual excessive exposure to the releases. The probability of occurrence is medium.

2) WORKER SAFETY AND HEALTH: 2B-H
JUSTIFICATION:

If not funded there will be inadequate training to the workers and emergency responders, thus increasing health and safety risks including occupational fatalities. Workers and emergency responders would not receive the hands-on training utilizing state-of-the-art props. Hands-on training is the best method to ensure the workers experience the level of stress that would occur during an actual event. This would be done under controlled conditions. It is also best in training the workers to effectively identify safety hazards associated with operation of heavy machinery, electrical hazards, exposure to extreme heat and cold, and confined space operations, fire and explosion hazards, exposure to toxic chemicals and radiation. Additionally workers would not be properly trained to encounter hazards associated with hazardous waste work. This could result in potentially dangerous situations such as being trapped in confined spaces, exposure to radiation and hazardous materials. The probability of occurrence is high due to hazardous material/radiological releases without proper training.

3) ENVIRONMENTAL PROTECTION: 2B-H
JUSTIFICATION:

Workers would not be properly trained to deal with an emergency and will ultimately aggravate the environmental problems associated with the event. Without HAMMER, the redeployment training on new ER & D&D technology would be hampered, which would increase costs and decrease safety and efficiency. This would delay environmental clean-up and future land use of the Hanford site.

DOE would not meet its commitment to ensure public and private entities along transportation corridors are properly trained. Additionally workers not will not receive the essential hands-on training needed to safely perform their work in facility operations and waste management which will result in significant impact on the environment with very high probability of occurrence due to hazardous material/radiological releases without proper training.

HAMMER will correct these glaring training deficiencies by utilizing the recognized best providers of training, the best proven training techniques, and state-of-the-art hands-on props and simulations to training the workers to perform their assigned tasks safely and correctly.

Without HAMMER, we will continue to always do what we've always done in training. Thus, we will get what we always got in work performance as described above in the first paragraph.

2.0 WORK BREAKDOWN STRUCTURE

2.1 Work Breakdown Structure Hierarchy

HAMMER
WBS 1.9

FY 1998 Work Plan

HNH-SP-1231
REV 0

2.2 Work Breakdown Structure Dictionary

WORK BREAKDOWN STRUCTURE DICTIONARY			
1. ACTIVITY TITLE HAMMER	2. DATE 8/15/97	3. PBS Number RL-HM01	4. Dict Rev 0
4. Contract WBS No. 1.9	5. Corresponding FDS No.		6. Baseline CR No.
6. Organization Name HAMMER			7. B & R No.
<p>8. Scope of Work</p> <p>Specific support includes:</p> <ol style="list-style-type: none"> 1) Provide FDH program management to appropriately plan, track and report the progress and cost of HAMMER activities. 2) HAMMER will host programs that are developed and offered by labor, other government agencies and the private sector to reduce the onsite costs of maintaining specialized training courses. These programs hosted at HAMMER will be able to provide hands-on, practical training in realistic situations. 3) The HAMMER facility will host many different types of training, education and evaluation programs. These programs will be offered in the following areas: <ul style="list-style-type: none"> • Environmental and Waste Management • Emergency Operations • Fire Operations • Occupational Safety and Health • Transportation* • Law Enforcement* • Associated Technologies* <p>* Product Line is in the early developmental stage and not fully funded.</p> 4) Maintain the HAMMER partnerships, facilitate worker health and safety training programs, and emergency response training. This will include hosting two HAMMER Steering Committee meetings with HAMMER partners. 5) HAMMER will continue to provide evaluations of hosted training programs to assure compliance with laws, regulations, site requirements and requirements of HAMMER's Continuous Improvement Program. 6) HAMMER will actively participate in various site forums to gain an understanding of Hanford site needs. 			

FY 1998 Work Plan

HNF-SP-1231
REV 0

2.3 Work Breakdown Structure Responsibility Assignment Matrix

Work Breakdown Structure Index and Programmatic Responsibility Assignment Matrix					
PROGRAM ELEMENT	ACTIVITY	COST ACCOUNT	TITLE	RESPONSIBLE MANAGER	RESPONSIBLE ORGANIZATION
1.9			FDH HAMMER PROGRAM	K. A. MCGINNIS	46600 HAMMER
	1.9.1 1RHD		HAMMER PROGRAM	K. A. MCGINNIS	46600 HAMMER
		1.9.1.0.0.0 1RHDA2	HAMMER PROGRAM	K. A. MCGINNIS	46600 HAMMER

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3.0 SCHEDULE BASELINE

3.1 Project Master Baseline Schedule (PBS)

The HAMMER Project Master Baseline Schedule is located on pages 28 & 29.

3.2 Execution Year PBS

The HAMMER Execution Year PBS is located on pages 30-33.

3.1 Project Master Baseline Schedule

FY 1998 Work Plan

HNF-SP-1231
REV 0

3.1 Project Master Baseline Schedule

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FY 1998 Work Plan

HNF-SP-1231
REV 0

3.2 Execution Year PBS

WBS #'S		DESCRIPTION	FY98 S O N D J F M A M J J A S O N											
IRHDA2.1 FACILITY MANAGEMENT														
1.RHDA.2.1.01.	FACILITY MANAGEMENT													
1.RHDA.2.1.01.	HMR-98-001 CONDUCT A STRATEGIC PLANNING WORKSHOP		☐ HMR-98-001 CONDUCT A STRATEGIC PLANNING WORKSHOP ☐ HMR-98-003 MOVE TARGETED ACT FROM CENTRAL TRNG ☐ HMR-98-009 REVISE/EXECUTE STAFFING PLAN ☐ HMR-98-011 PREPARE A MID-YEAR PROGRAM REVIEW ☐ HMR-98-022 CONDUCT STEERING COMMITTEE MEETING											
1.RHDA.2.1.01.	HMR-98-001 CONDUCT A STRATEGIC PLANNING WORKSHOP													
1.RHDA.2.1.01.	HMR-98-003 MOVE TARGETED ACT FROM CENTRAL TRNG													
1.RHDA.2.1.01.	HMR-98-009 REVISE/EXECUTE STAFFING PLAN													
1.RHDA.2.1.01.	HMR-98-011 PREPARE A MID-YEAR PROGRAM REVIEW													
1.RHDA.2.1.01.	HMR-98-022 CONDUCT STEERING COMMITTEE MEETING													
IRHDA2.2 ADMINISTRATION AND PROGRAM CONTROL														
1.RHDA.2.2.01.01.	FACILITY COORDINATION													
1.RHDA.2.2.01.02.	FACILITY TRAINING SUPPORT													
1.RHDA.2.2.02.01.	PROVIDE PROGRAM PLANNING AND SCHEDULING													
1.RHDA.2.2.02.01.	HMR-98-002 UPDATE THE INTEGRATED MGMT SCHEDULE													
1.RHDA.2.2.02.02.	PROVIDE PROGRAM REPORTING													
1.RHDA.2.2.02.02.	HMR-98-017 SUBMIT FY98 ANNUAL REPORT TO DOE-RL													
1.RHDA.2.2.02.02.	HMR-98-021 DOCUMENT RESULTS/FACILITY/SYS/PROPS													
1.RHDA.2.2.02.03.	MANAGE/CONTROL PROGRAM SCOPE AND BUDGETS													
1.RHDA.2.2.03.01.	SUPPORT PROCUREMENT OF MATERIAL/SERVICES													
1.RHDA.2.2.03.02.	CONDUCT STUDENT BILLING/MANAGE BILLING POOLS													
1.RHDA.2.2.03.03.	CONTRACT ADMINISTRATION													
1.RHDA.2.2.03.04.	PROVIDE BUSINESS MANAGEMENT													
1.RHDA.2.2.03.04.	HMR-98-007 DEV. FINANCIAL SYS FOR FUTURE USE													
1.RHDA.2.2.03.04.	HMR-98-010 GENERATE \$130K REVENUE													
1.RHDA.2.2.04.	PLANNING AND BUSINESS SUPPORT													
1.RHDA.2.2.04.	HMR-98-004 UPDATE STRATEGIC MGMT PLAN													
1.RHDA.2.2.04.	HMR-98-015 ESTABLISH HANMER BASELINE PROCESS													
1.RHDA.2.2.04.	HMR-98-006 UPDATE/EXPAND/IMPLEMENT BUSINESS PLAN													
1.RHDA.2.2.04.	HMR-98-008 IMPLEMENT INDEPENDENT INFO MGMT SYS													
1.RHDA.2.2.04.	HMR-98-020 EXECUTE THE HANMER BUSINESS PLAN													
IRHDA2.3 FACILITY OPERATIONS AND MAINTENANCE														
1.RHDA.2.3.01.	PROVIDE MAINTENANCE MANAGEMENT													
1.RHDA.2.3.02.	FACILITY MAINTENANCE													
1.RHDA.2.3.03.	HFD MAINTENANCE AND SUPPORT													
1.RHDA.2.3.04.	FACILITY OPERATIONS													
1.RHDA.2.3.05.	FLEET OPERATION SERVICE													
1.RHDA.2.3.06.	INDUSTRIAL SAFETY AND HYGIENE													
1.RHDA.2.3.06.	HAZARDOUS MAT'L'S MGMT													
1.RHDA.2.3.08.	HERBICIDE/PESTICIDE													
1.RHDA.2.3.09.	TRANSPORTATION													
1.RHDA.2.3.10.	GENERAL SERVICES & ASSESSMENTS													
1.RHDA.2.3.11.	UTILITY OPERATIONS													
1.RHDA.2.3.12.	TRAINING SUPPORT													
1.RHDA.2.3.13.	JANITORIAL SERVICES													
1.RHDA.2.3.14.	FLEET MAINTENANCE													
1.RHDA.2.3.15.	WASTE HANDLING													
IRHDA2.4 TRAINING PROGRAM SUPPORT & DEVELOPMENT														
1.RHDA.2.4.01.01.01.	SAFETY/HEALTH DECISIONS FOR MANAGERS													
1.RHDA.2.4.01.01.01.	TREATMENT TECHNOLOGIES FOR SUPERFUND													
1.RHDA.2.4.01.01.01.	RADIATION SAFETY AT SUPERFUND SITES													
1.RHDA.2.4.01.01.01.	CHEMICAL SAFETY AUDITS													
1.RHDA.2.4.01.01.01.	INVENTORY PRELIMINARY ASSESSMENT													
1.RHDA.2.4.01.01.01.	INTRO SITE INSPECTION TRAINING													
1.RHDA.2.4.01.01.02.	NEGOTIATE COURSES OFFERED													
1.RHDA.2.4.01.01.02.	SET SCHEDULE													
1.RHDA.2.4.01.01.02.	HOST EPA NATIONAL CLASSES													
1.RHDA.2.4.01.01.03.	SITE DEPT. OF TRANSPORTATION COURSES													

FY 1998 Work Plan

HNF-SP-1231
REV 0

3.2 Execution Year PBS

WBS #'S	ACTIVITY DESCRIPTION	FY98														
		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
1RHDA2.4 TRAINING PROGRAM SUPPORT & DEVELOPMENT																
1.RHDA.2.4.01.01.04	FACILITY SPECIFIC TRAINING															
1.RHDA.2.4.01.02	SET DOT SCHEDULE															
1.RHDA.2.4.01.02	HOT DOT CLASSES															
1.RHDA.2.4.01.02.01	GEO-PHYSICAL															
1.RHDA.2.4.01.02.02	ESA															
1.RHDA.2.4.01.03	MARKETING AND ERM PIM SUPPORT															
1.RHDA.2.4.01.03	DEVELOP ERM BUSINESS PLAN															
1.RHDA.2.4.01.04.01	CONTACT MGMT															
1.RHDA.2.4.01.04.01	SET COURSE SCHEDULE															
1.RHDA.2.4.01.04.01	HOT WASTE SAMPLING COURSES															
1.RHDA.2.4.01.04.02	HOT OPERATOR/SUPERVISOR CONTINUING TRNG #1															
1.RHDA.2.4.01.04.02	HOT DRILL #1															
1.RHDA.2.4.01.04.02	HOT OPERATOR/SUPERVISOR CONTINUING TRNG #2															
1.RHDA.2.4.01.04.02	HOT DRILL #2															
1.RHDA.2.4.01.04.02	HOT OPERATOR/SUPERVISOR CONTINUING TRNG #3															
1.RHDA.2.4.01.04.02	HOT DRILL #3															
1.RHDA.2.4.01.04.02	HOT OPERATOR/SUPERVISOR CONTINUING TRNG #4															
1.RHDA.2.4.01.04.02	HOT DRILL #4															
1.RHDA.2.4.01.05.01	CONCEPTUAL DESIGN															
1.RHDA.2.4.01.05.01	CONCEPTUAL DESIGN APPROVED BY COMMITTEE															
1.RHDA.2.4.01.05.01	MARKETING PLAN COMPLETE															
1.RHDA.2.4.01.05.01	CONSTRUCTION BY FDM															
1.RHDA.2.4.01.05.02	CONCEPTUAL DESIGN															
1.RHDA.2.4.01.05.02	CONSTRUCTION START															
1.RHDA.2.4.01.05.03	INSTALL FENCE															
1.RHDA.2.4.01.05.03	INSTALL EXHAUSTER															
1.RHDA.2.4.01.05.04	RMR-98-012 COMPLETE THE REVEGETATION OF HAMMER															
1.RHDA.2.4.01.06	STATE AGENCY TRAINERS ROUND TABLE #1															
1.RHDA.2.4.01.06	TRADE SHOW #1															
1.RHDA.2.4.01.06	STATE AGENCY TRAINERS ROUND TABLE #2															
1.RHDA.2.4.01.06	NATIVE AMERICAN LIAISON MEETING #1															
1.RHDA.2.4.01.06	ENVIRONMENTAL/ENG GEO SOCIETY															
1.RHDA.2.4.01.06	STATE AGENCY TRAINERS ROUND TABLE #3															
1.RHDA.2.4.01.06	TRADE SHOW #2															
1.RHDA.2.4.01.06	NATIVE AMERICAN LIAISON MEETING #2															
1.RHDA.2.4.01.06	STATE AGENCY TRAINERS ROUND TABLE #4															
1.RHDA.2.4.01.07.01	ADVANCED H2O TREATMENT TECHNOLOGIES															
1.RHDA.2.4.01.07.01	HOT GEO CLASS AT 'LITTLE EGYPT'															
1.RHDA.2.4.01.07.02	CLASS EVALUATION #1															
1.RHDA.2.4.01.07.02	CLASS EVALUATION #2															
1.RHDA.2.4.01.07.02	CLASS EVALUATION #3															
1.RHDA.2.4.01.07.02	CLASS EVALUATION #4															
1.RHDA.2.4.02.01.01	SUPPORT SITE EMER RESPONSE DRILL PROGRAM															
1.RHDA.2.4.02.01.02	SUPPORT DOG TRANSPORTATION EMER RESPONSE PROG															
1.RHDA.2.4.02.01.02	CONDUCT CRIMSON-ROSE EXERCISE															
1.RHDA.2.4.02.02.04	CUSTOMS TRNG FOR INT'L BORDER GUARDS #1															
1.RHDA.2.4.02.02.04	CUSTOMS TRNG FOR INT'L BORDER GUARDS #2															
1.RHDA.2.4.02.02.04	CUSTOMS TRNG FOR INT'L BORDER GUARDS #3															
1.RHDA.2.4.02.02.04	CUSTOMS TRNG FOR INT'L BORDER GUARDS #4															
1.RHDA.2.4.02.02.05	COORDINATE PORT OF MORMON EMER RESPONSE EXERCISE															
1.RHDA.2.4.02.02.06	COORD. RADIOLOGICAL INGESTION EXERCISE -MASH/ORE															
1.RHDA.2.4.02.02.06	NATIVE AM WORKSHOP ON EMER RESPONSE NEEDS															
1.RHDA.2.4.02.02.06	HOT MASH DEPT OF HEALTH RADIOLOGICAL WORKSHOP															
1.RHDA.2.4.02.02.07	HOT AMMONIA EMER RESPONSE COURSE #1															

Start Date 02/07/97
 End Date 02/28/97
 Request Date 02/27/97
 Request Title 1111

Approved Budget Base
 Approved Budget
 Approved Budget
 Approved Budget

HAMMER PROGRAM FY98
 FY98 MPM SUMMARY SCHEDULE

Start
 Session
 Credits
 Amount

Start Date: 02/01/97
End Date: 01/31/98
Project Name: 123127
Project Title: 123127

Activity Name: 123127
Activity Title: 123127
Activity Description: 123127

HAMMER PROGRAM FY98
FY98 MPM SUMMARY SCHEDULE

DATE	ACTIVITY	START DATE	END DATE

FY 1998 Work Plan

HNF-SP-1231

REV 0

3.2 Execution Year PBS

WBS #'S	ACTIVITY DESCRIPTION	FY98											
		S	O	N	D	J	F	M	A	M	J	J	A
1RHD2.4	TRAINING PROGRAM SUPPORT & DEVELOPMENT												
1.RHDA.2.4.02.02.07	HST AMMONIA EMER RESPONSE COURSE #2												
1.RHDA.2.4.02.02.07	HST AMMONIA EMER RESPONSE COURSE #3												
1.RHDA.2.4.02.02.07	HST AMMONIA EMER RESPONSE COURSE #4												
1.RHDA.2.4.02.05	MARKETING AND EMER OPS PIM SUPPORT												
1.RHDA.2.4.02.05	GENERATE S10K EMER OPS PRODUCT LINE REVENUE												
1.RHDA.2.4.02.05	HMR-98-013 CONDUCT NATIVE AM EMER OPS NEEDS WKSP												
1.RHDA.2.4.03.01.01	WFO USE OF PROPS												
1.RHDA.2.4.03.01.02	SCBA TRAINING												
1.RHDA.2.4.03.02	BOOKE SCHOOL												
1.RHDA.2.4.03.02	PAID/VOLUNTEER FIRE DEPARTMENTS												
1.RHDA.2.4.03.04	COMMERCIAL/INDUSTRIAL FIRE OPERATIONS												
1.RHDA.2.4.03.05	MARKETING AND FIRE OPERATIONS PIM SUPPORT												
1.RHDA.2.4.04.01.01	IMPLEMENTATION OF TECHNOLOGIES												
1.RHDA.2.4.04.01.02	DEMONSTRATIONS												
1.RHDA.2.4.04.01.03	APPLICATIONS TRAINING												
1.RHDA.2.4.04.02.01	TECHNOLOGY TRANSFER												
1.RHDA.2.4.04.02.02	DEMONSTRATIONS												
1.RHDA.2.4.04.02.03	DEPLOYMENT												
1.RHDA.2.4.04.02.03	HMR-98-016 DEV TECHNOLOGY DEPLOYMENT PARTNERSHIP												
1.RHDA.2.4.04.03	TECHNOLOGY PRODUCT LINE MGR												
1.RHDA.2.4.05.01	WA STATE POLICE CHIEFS AND SHERIFFS												
1.RHDA.2.4.05.02	LAW ENFORCEMENT PRODUCT LINE MGR												
1.RHDA.2.4.06.01	NIEHS MEETING #1												
1.RHDA.2.4.06.01	TRADE SHOW #1												
1.RHDA.2.4.06.01	NIEHS MEETING #2												
1.RHDA.2.4.06.01	TRADE SHOW #2												
1.RHDA.2.4.06.01	OSH PRODUCT LINE SUBCOMMITTEE MEETING												
1.RHDA.2.4.06.02	MARKETING AND OSH PIM SUPPORT												
1.RHDA.2.4.06.02	HMR-98-005 DEVELOP OSH PRODUCT LINE SUBCOMMITTEE												
1.RHDA.2.4.06.02	HMR-98-014 PERFORM VPP SAFETY IMP SELF EVAL												
1.RHDA.2.4.06.03	HADGER ZERO ACCIDENT COUNCIL (ZAC)												
1.RHDA.2.4.06.03	DEV/IMPLEMENT HAMMER VPP SITE												
1.RHDA.2.4.06.03	CLASSROOM EVALUATION #1												
1.RHDA.2.4.06.03	CLASSROOM EVALUATION #2												
1.RHDA.2.4.06.03	CLASSROOM EVALUATION #3												
1.RHDA.2.4.06.03	NATIONAL SAFETY COUNCIL MEETING												
1RHD2.5	CONDUCT OF TRAINING												
1.RHDA.2.5.01	CONDUCT OF TRAINING MGT												
1.RHDA.2.5.01	HMR-98-018 IMP TOTAL QUAL/BALDRIDGE PRINCIPLES												
1.RHDA.2.5.01	HMR-98-019 PERFORM COMPREHENSIVE COURSE EVALS												
1.RHDA.2.5.02	OUTREACH AND DEVELOPMENT												
1.RHDA.2.5.03.01	EVALUATION SUPPORT #1 - 3rd PARTY												
1.RHDA.2.5.03.01	EVALUATION SUPPORT #2 - 3rd PARTY												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-8 HR HAMMOVER #1												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-10 HR HAMMOVER												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-PROBLEM COURSE#1												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-8 HR HAMMOVER #2												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-24 HR HAMMOVER												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-8 HR HAMMOVER #3												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-ASBESTOS REFRESHER												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-NEW COURSE												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-8 HR HAMMOVER #4												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-PROBLEM COURSE#2												
1.RHDA.2.5.03.02	CLASSROOM EVALUATION-8 HR HAMMOVER #5												

HAMMER PROGRAM FY98
FY98 MWP SUMMARY SCHEDULE

FY 1998 Work Plan

REV 0

3.2 Execution Year PBS

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3.3 Milestone List

Milestone Control Number	MS Level	Milestone Title	Milestone Completion Date
HMR-98-001	RL	Conduct a Strategic Planning Workshop	10/15/97
HMR-98-002	CNTR	Update the FY 1998 HAMMER Integrated Management Baseline Schedule	10/30/97
HMR-98-003	RL	Transfer Targeted Training from Central Training to HAMMER	11/20/97
HMR-98-004	RL	Update the HAMMER Strategic Management Plan	11/20/97
HMR-98-005	CNTR	Develop OSH Product Line Subcommittee	11/20/97
HMR-98-006	RL	Update/Expand the HAMMER Business Plan	12/15/97
HMR-98-007	RL	Develop a Financial System Plan for HAMMER for the Future	01/30/98
HMR-98-008	RL	Develop an Independent Information Management System Plan	01/30/98
HMR-98-009	RL	Revise and Execute a Staffing Plan to Ensure HAMMER's Success	02/27/98
HMR-98-010	CNTR	Generate \$130K of Revenue	03/27/98
HMR-98-011	RL	Prepare a Mid-Year Program Review	03/27/98
HMR-98-012	CNTR	Complete the Revegetation of HAMMER	05/29/98
HMR-98-013	RL	Conduct a Workshop to Identify Native American Training and Emergency Operations Needs	05/29/98
HMR-98-014	CNTR	Perform HAMMER VPP Safety Improvement Self Evaluation	06/26/98
HMR-98-015	RL	Establish HAMMER Baselines	06/26/98
HMR-98-016	RL	Develop Technology Deployment Partnerships	08/28/98
HMR-98-017	RL	Submit FY 1998 Annual Report to DOE-RL	09/30/98
HMR-98-018	RL	Implement Total Quality/Malcom Baldrige Principles at HAMMER	09/30/98
HMR-98-019	CNTR	Perform Comprehensive Course Evaluations at HAMMER	09/30/98
HMR-98-020	RL	Execute the HAMMER Business Plan	09/30/98
HMR-98-021	RL	Document Results of HAMMER's Facilities, Systems and Props	09/30/98
HMR-98-022	RL	Conduct Two HAMMER Steering Committee Meetings	09/30/98

* TPA, HQ, RL, and selected contractor milestones

* On Tri-Party Agreement Milestones, also designate if they are HQ, RL

FY 1998 Work Plan

HNF-SP-1231
REV 0

3.3 Milestone Description Sheets

MILESTONE DESCRIPTION SHEET			
Title: Conduct a Strategic Review Workshop			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 10/15/97
Control Number: HMR-98-001			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
Milestone Description: Conduct a mandatory workshop for all HAMMER employees to review and analyze the key activities and accomplishments of the program during fiscal year 1997..			
Description of what constitutes completion of this milestone: Hold the workshop, including a discussion and documentation of the key accomplishments, lessons learned and plans for fiscal year 1998.			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Update the FY 1998 HAMMER Integrated Management Baseline Schedule			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 10/30/97
Control Number: HMR-98-002			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Expand the HAMMER integrated management schedule.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Update and maintain current the integrated management schedule. Demonstrate and utilize schedule to manage the HAMMER Program. The operational schedule will include incorporation/integration of the principles and tools necessary for oversight and management of the facility. The schedule will be organized by the work breakdown structure, identifying tasks, work scope, milestones, resources, estimated resource cost, relationships and logic between tasks, resource usage, and the constraints and contracts that may influence the accomplishment of the tasks.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET			
Title: Transfer Targeted Training from Central Training to HAMMER			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 11/20/97
Control Number: HMR-98-003			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
Milestone Description: Transfer targeted training from Central Training to HAMMER.			
Description of what constitutes completion of this milestone: Transfer the targeted training from Central Training to HAMMER. This includes: the transfer of budget, props and equipment, scheduling HAMMER resources, providing safety and other inspections, coordination with Central Training.			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Update the HAMMER Strategic Management Plan		Date:	
Assigned To: KA McGinnis - HAMMER		CIN:	
Program WBS Designator: 1.9.1.1		Due Date: 11/20/97	
Control Number: HMR-98-004		Rev:	
MILESTONE TYPE: DOE-HQ ☒ DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal ☒ DOE RCRA TPA Number _____	DELIVERABLE: Report Letter Drawings ☒ Other (specify) (See Below)	ADDRESS TO: DOE-HQ ☒ DOE-RL Other (specify)
Milestone Description: Update the HAMMER Strategic Management Plan to include each product line.			
Description of what constitutes completion of this milestone: Update, revise and execute the Strategic Management Plan. The plan will provide long-range (5 years +) vision, mission, values, high level strategies and objectives for the HAMMER Program. HAMMER staff will be educated on the Strategic Management Plan.			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET			
Title: Develop OSH Product Line Subcommittee			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 11/20/97
Control Number: HMR-98-005			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Develop OSH Product Line Subcommittee.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Outcomes of this meeting include; establish committee, define role of the committee, appoint members, establish objectives, and establish meeting schedule. Development of this subcommittee will nurture the HAMMER partnership by creating a broader base partnership.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Update/Expand the HAMMER Business Plan			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 12/15/97
Control Number: HMR-98-006			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Update/expand the HAMMER Business Plan to include marketing, revenue projections and economic development.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Update the Business Plan. The plan will cover projected sales, revenue and costs and will address each product line. It will also include five-year projections and economic development potential.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET			
Title: Develop a Financial System Plan for HAMMER for the Future			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 01/30/98
Control Number: HMR-98-007			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
Milestone Description: Develop a plan for an independent, but interfaced, financial system to position HAMMER for the future. A phased approach will be used to develop modules in the order of greatest need. This system must interface with existing Site systems as well as other HAMMER information management systems. A key component of the financial system will be the ability to collect cost data and produce reports which support HAMMER management decisions as well as diverse customer needs. An activity based costing approach will support future budget projections as well as pricing, product line and other business decisions.			
Description of what constitutes completion of this milestone: Completion of this milestone will be reached upon delivery of an acceptable strategic plan documenting the general approach and targeted schedule for development of an independent, but interfaced, financial system which supports HAMMER objectives. A tactical plan will be produced following completion of this milestone which reflects a multi-year, phased implementation.			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Develop an Independent Information Management System Plan			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 01/30/98
Control Number: HMR-98-008			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
Milestone Description: Develop a plan for an independent, but interfaced information management system. A phased approach will be used to develop modules in the order of greatest need. The information management system must interface with existing Site systems as well as internally.			
Description of what constitutes completion of this milestone: Completion of this milestone will be reached upon delivery of an acceptable strategic plan documenting the general approach and target schedule for development of an independent, but interfaced information management system to include financial management data. Tactical plans will be produced following completion of this milestone which reflects a multi-year, phased implementation.			

MILESTONE DESCRIPTION SHEET

Title: Revise and Execute a Staffing Plan to Ensure HAMMER's Success			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 02/27/98
Control Number: HMR-98-009			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
Milestone Description: Revise and execute the staffing plan to assure that the staff members are qualified to perform the necessary functions, in an effective and professional manner. Prioritize staff training needs and assure critical positions are covered.			
Description of what constitutes completion of this milestone: The plan and its implementation will be accomplished to assure that the necessary staff members are in place, and have sufficient skills, knowledge and abilities to support the success of HAMMER. The plan will also include the resource requirements to transfer Tulane/Xavier scope to HAMMER.			

MILESTONE DESCRIPTION SHEET			
Title: Generate \$130K of Revenue		Date:	
Assigned To: KA McGinnis - HAMMER		CIN:	
Program WBS Designator: 1.9.1.1		Due Date: 03/27/98	
Control Number: HMR-98-010		Rev:	
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Generate \$130K of revenue through contracting with customers for utilization of the HAMMER facility, and develop mechanisms to offset against incurred cost.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>HAMMER has contracted with outside entities which will result in \$130K of revenues by mid-year. This revenue is necessary to help fund the HAMMER planned costs. A mechanism will be established with the FDH CFO organization to implement this process.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Prepare a Mid-Year Program Review			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 03/27/98
Control Number: HMR-98-011			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)

Milestone Description:

Prepare a Mid-Year Program Review to evaluate HAMMER's progress in enhancing existing business, operations, product lines and Conduct of Training policies and procedures.

Description of what constitutes completion of this milestone:

Prepare a program review similar to the Program Readiness Assessment completed in September 1997. The September 1997 report will be used as a benchmark. The program review will include the following objectives: customer interface systems, provider interface systems, training operations, administration and configuration systems, business management systems, Learning Resource Center, Distance Learning Center, and training safety.

MILESTONE DESCRIPTION SHEET			
Title: Complete the Revegation of HAMMER			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 05/29/98
Control Number: HMR-98-012			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Complete the revegetation of approximately 1 ½ acres of the HAMMER Site with native plants.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Contract #5559 titled "HAMMER Training Center Interpretative Trail and Revegetation Project" will be complete. At completion ~1 ½ acres of the HAMMER site will be revegetated with native plants. Additionally interpretative information will be developed and posted along the existing walking paths. This effort is a significant step towards involving key partners in the ownership of HAMMER.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Conduct a Workshop to Identify Native American Training and Emergency Operations Needs			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 05/29/98
Control Number: HMR-98-013			Rev:
MILESTONE TYPE: DOE-HQ ☒ DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal ☒ DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings ☒ Other (specify) (See Below)	ADDRESS TO: DOE-HQ ☒ DOE-RL Other (specify)
Milestone Description: Conduct a Workshop to Identify Native American Training and Emergency Operations Needs			
Description of what constitutes completion of this milestone: Plan, coordinate, and conduct a workshop to identify native American emergency preparedness, planning and other training needs. This will include development of an agenda, sending out invitations to participate, scheduling activities, identifying facilitation processes, conducting workshop activities, and documenting the results.			

MILESTONE DESCRIPTION SHEET			
Title: Perform HAMMER VPP Safety Improvement Self Evaluation			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 06/26/98
Control Number: HMR-98-014			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Perform HAMMER VPP Safety Improvement Self Evaluation to establish a baseline for attaining VPP Star Status at HAMMER.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Complete a self evaluation using VPP criteria which documents HAMMER's strengths and weaknesses, and identification of workplace hazards and demonstrates initiation of VPP at HAMMER. Develop a work plan to reinforce strengths and address weaknesses. Establish a follow up Safety Improvement Self Evaluation for FY 1999. This effort supports the overall HAMMER Safety Value - model safety in everything we do.</p>			

MILESTONE DESCRIPTION SHEET

Title: Establish HAMMER Baselines		Date:	
Assigned To: KA McGinnis - HAMMER		CIN:	
Program WBS Designator: 1.9.1.1		Due Date: 06/26/98	
Control Number: HMR-98-015		Rev:	
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)

Milestone Description:

Establish HAMMER baselines. This will include, but not be limited to:

- hands-on components in training
- contract processing
- evaluation data
- facility downtime
- student capacity

Description of what constitutes completion of this milestone:

Identify parameters necessary to establish the baselines and measures which will be used to evaluate the facility/training/business operations at HAMMER. This also includes the development and initiation of the use of a system to collect and analyze the parameters. This will provide the basis for future evaluations which will help HAMMER increase its effectiveness.

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Develop Technology Deployment Partnerships		Date:	
Assigned To: KA McGinnis - HAMMER		CIN:	
Program WBS Designator: 1.9.1.1		Due Date: 08/28/98	
Control Number: HMR-98-016		Rev:	
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Develop Technology Deployment Partnerships</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>HAMMER will assist in developing partnerships to facilitate the deployment of technologies. Milestone completion will be based upon successful formation of the partnerships. In addition this will further strengthen partnerships and increases the potential use of the HAMMER facility while helping to disseminate technologies both within and outside the DOE complex.</p>			

FY 1998 Work Plan

HNH-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET

Title: Submit FY 1998 Annual Report to DOE-RL	Date:
Assigned To: KA McGinnis - HAMMER	CIN:
Program WBS Designator: 1.9.1.1	Due Date: 09/30/98
Control Number: HMR-98-017	Rev:

MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	X Report Letter Drawings Other (specify)	DOE-HQ X DOE-RL Other (specify)

Milestone Description:

Submit annual report to DOE-RL program manager

Description of what constitutes completion of this milestone:

Submit the annual report, including financial projections to DOE-RL. The report will include a summary of accomplishments, number of students trained, total revenue generated, financial statements, and key initiatives undertaken during the fiscal year. This effort delivers an excellent communication product in this highly visible initiative.

MILESTONE DESCRIPTION SHEET			
Title: Implement Total Quality/Malcom Baldrige Principles at HAMMER			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 09/30/98
Control Number: HMR-98-018			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Include Total Quality/Malcom Baldrige Principles into how HAMMER does business.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Complete a total quality self assessment using Malcom Baldrige as criteria for evaluation. In addition the HAMMER Total Quality Plan will incorporate appropriate recommendations from the self assessment. This effort supports the overall HAMMER values of ensuring total quality at HAMMER.</p>			

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET			
Title: Perform Comprehensive Course Evaluations at HAMMER			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 09/30/98
Control Number: HMR-98-019			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ DOE-RL DOE-FO X CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Perform Comprehensive Course Evaluations at HAMMER and establish and implement a feedback process.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Level I evaluations will be completed on all courses taught at HAMMER. Classroom evaluations will be performed as scheduled. Level III & IV evaluations will be completed through a graded approach as determined by HAMMER, Conduct of Training Manager and the customer. Additionally a feedback process will be developed in which the Level I-IV evaluation data is incorporated into the continuous course/training improvements. This effort ensures quality control of training at HAMMER.</p>			

MILESTONE DESCRIPTION SHEET

Title: Execute HAMMER Business Plan			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 09/30/98
Control Number: HMR-98-020			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Measure the execution successes of the plan by the revenues generated.</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>The successful execution of this milestone includes the generation of at least \$365K of revenue in FY 1998 and the integration of remaining Tulane/Xavier scope into HAMMER operations. This revenue is necessary to help fund the HAMMER planned costs, and ensures integration of items developed by Tulane/Xavier for successful operation of HAMMER.</p>			

MILESTONE DESCRIPTION SHEET

Title: Document Results of HAMMER's Facilities, Systems and Props			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 09/30/98
Control Number: HMR-98-021			Rev:
MILESTONE TYPE: DOE-HQ X DOE-RL DOE-FO CONTRACTOR	DIVISION: State Federal X DOE RCRA TPA Number	DELIVERABLE: Report Letter Drawings X Other (specify) (See Below)	ADDRESS TO: DOE-HQ X DOE-RL Other (specify)

Milestone Description:

Document Results of HAMMER's Facilities, Systems and Props

Description of what constitutes completion of this milestone:

Collect and analyze the results of the surveillance which will be used to help evaluate HAMMER's operational performance. This will assist HAMMER in increasing its effectiveness.

FY 1998 Work Plan

HNF-SP-1231
REV 0

MILESTONE DESCRIPTION SHEET			
Title: Conduct Two HAMMER Steering Committee Meetings			Date:
Assigned To: KA McGinnis - HAMMER			CIN:
Program WBS Designator: 1.9.1.1			Due Date: 09/30/98
Control Number: HMR-98-022			Rev:
MILESTONE TYPE:	DIVISION:	DELIVERABLE:	ADDRESS TO:
DOE-HQ X DOE-RL DOE-FO CONTRACTOR	State Federal X DOE RCRA TPA Number	Report Letter Drawings X Other (specify) (See Below)	DOE-HQ X DOE-RL Other (specify)
<p>Milestone Description:</p> <p>Conduct Two HAMMER Steering Committee Meetings</p>			
<p>Description of what constitutes completion of this milestone:</p> <p>Facilitate the Steering Committee meetings including: serving as executive director, logistics, coordinating with over 30 executive level stakeholders, preparation of all required materials, developing the agenda, documenting actions, providing a project and program update and issuing meeting minutes. The agendas demonstrate a greater emphasis on safety, health and productivity issues.</p>			

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4.0 COST BASELINE

4.1. Life Cycle Cost Baseline (BCWS) by PBS

The HAMMER Life Cycle Cost Baseline is located on Pages 58 & 59.

4.2. Life Cycle Budget Authority (B/A) by PBS

The HAMMER Life Cycle B/A is located on Pages 60 & 61.

4.3. Execution Year Cost Baseline by Month by PBS by ADS

The HAMMER Baseline by Month is located on Page 62.

4.4. Staffing

The HAMMER Staffing Profile is located on Page 63.

FY 1998 Work Plan

HNF-SP-1231
REV 0

4.1 Life Cycle Cost Baseline (BCWS) by PBS

HAMMER
LIFE CYCLE COST BASELINE (BCWS) BY YEAR BY FUND TYPE
BY PROJECT BASELINE SUMMARY (PBS)

FY 1998
(\$000s)

PROJECT WBS: 1.9		(\$000s)										
PBS NO:												
PBS TITLE: HAMMER												
FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	SUBTOT FY1997- FY2006	
OPERATING EXPENSE	5,303	5,053	4,934	4,799	4,895	5,005	4,963	4,930	4,886	4,753	49,521	
CENRTC	-	-	-	-	-	-	-	-	-	-	-	
GENERAL PLANT PROJECT	-	-	-	-	-	-	-	-	-	-	-	
LINE ITEM (List Each One)												
HAMMER PROJECT	7,900	-	-	-	-	-	-	-	-	-	-	
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NOTE: REFER TO APPENDIX A FOR ADDITIONAL DETAILS

¹ Life Cycle costs do not include ~ \$850K per year (FY 1999 - FY 2006) for workscope associated with improving worker safety and health, and assuring training at HAMMER fulfills regulatory requirements and meets training requirements throughout the Hanford Site and DOE complex.

FY 1998 Work Plan

HNF-SP-1231
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4.2 Life Cycle Budget Authority (B/A) by PBS

HAMMER
LIFE CYCLE BUDGET AUTHORITY (B/A) BY YEAR BY FUND TYPE
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

(\$000s)

PROJECT WBS:	1.9										
PBS NO:	RL-HM01										
PBS TITLE:	HAMMER										
FUND TYPE	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	FY2006	SUBTOT FY1997- FY2006
OPERATING EXPENSE	5,303	5,053	4,934	4,799	4,895	5,005	4,963	4,930	4,886	4,753	49,521
CENRTC	-	-	-	-	-	-	-	-	-	-	-
GENERAL PLANT PROJECT	-	-	-	-	-	-	-	-	-	-	-
LINE ITEM (List Each One)											
HAMMER PROJECT	7,900	-	-	-	-	-	-	-	-	-	-
Subtotal Line Items	7,900	-	-	-	-	-	-	-	-	-	7,900
TOTAL NEW B/A	7,900	5,053	4,934	4,799	4,895	5,005	4,963	4,930	4,886	4,753	57,421

NOTE: REFER TO APPENDIX A FOR ADDITIONAL DETAILS

1) Life Cycle costs do not include ~ \$850K per year (FY 1999 - FY 2006) for workscope associated with improving worker safety and health, and assuring training at HAMMER fulfills regulatory requirements and meets training requirements throughout the Hanford Site and DOE complex.

FY 1998 Work Plan

HNF-SP-1231
REV 0

4.2 Life Cycle Budget Authority (B/A) by PBS

HAMMER
LIFE CYCLE BUDGET AUTHORITY (B/A) BY YEAR BY FUND TYPE
BY PROJECT BASELINE SUMMARY (PBS)
FY 1998

(\$000s)

PROJECT WBS:	1.9									
PBS NO:	RL-HM01									
PBS TITLE:	HAMMER									
FUND TYPE	FY2007-FY2010	FY2011-FY2015	FY2016-FY2020	FY2021-FY2025	FY2026-FY2030	FY2031-FY2035	FY2036-FY2040	FY2041-FY2045	FY2046-FY2050	TOTAL FY1997-FY2050
OPERATING EXPENSE	29,291	36,614	36,614	36,614	29,293	-	-	-	-	217,947
CENRTC	-	-	-	-	-	-	-	-	-	-
GENERAL PLANT PROJECT	-	-	-	-	-	-	-	-	-	-
LINE ITEM (List Each One)										
HAMMER PROJECT	-	-	-	-	-	-	-	-	-	-
Subtotal Line Items	-	-	-	-	-	-	-	-	-	7,900
TOTAL NEW B/A	29,291	36,614	36,614	36,614	29,293	-	-	-	-	225,847

FY 1998 Work Plan

HNF-SP-1231
REV 0

4.3 Execution Year Cost Baseline by Month by PBS by ADS

HAMMER
FY 1998 COST BASELINE (BCWS) BY MONTH
BY PROJECT BASELINE SUMMARY (PBS)
BY ACTIVITY DATA SHEET (ADS)
EXECUTION YEAR

(\$000s)

PBS NO:		RL-HM01													
PBS TITLE:		HAMMER													
ADS TITLE	ADS NO	FUND TYPE	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
HAMMER	7221														
	FDH	OP EXP	378	398	357	368	368	447	388	435	379	353	427	412	4,710
	RL	OP EXP												343	343
		CENRTG													-
		GPP													-
		LI													-
		SUBTOT	378	398	357	368	368	447	388	435	379	353	427	755	5,053
		OP EXP													-
		CENRTG													-
		GPP													-
		LI													-
		SUBTOT	-	-	-	-	-	-	-	-	-	-	-	-	-
		OP EXP													-
		CENRTG													-
		GPP													-
		LI													-
		SUBTOT	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL BCWS/PMB			378	398	357	368	368	447	388	435	379	353	427	755	5,053

HAMMER
1RH
Revision 0
AVERAGE ANNUAL FULL TIME EQUIVALENTS
(Includes Major Subcontractors but not Enterprise Companies)

NOTE: REFER TO APPENDIX A FOR ADDITIONAL DETAILS

63

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FY 1998 Work Plan

APPENDIX A

FY 1998 Work Plan

Appendix A

HAMMER Project Issues

Currently the FY 1999 Target for HAMMER is \$4934K. Additional funding of \$850K (IPL item #268 - below the line) is required to complete the following workscope.

The RL Grant to Tulane and Xavier Universities ends in FY 1998. The Tulane and Xavier scope was to design, develop and hand-off to operations processes, systems and policies for improved safety and health training.

- Tulane & Xavier developed programs that will transfer to FDH and be integrated into HAMMER operations include:
 - Level 1,2,3 & 4 Evaluation Process
 - Third Party Evaluations of Classroom Presentations
 - Safety Support for the HAMMER facility
 - Reciprocity of Safety and Health Training among DOE and government
 - Regulatory review of training being conducted at HAMMER
 - Integrate HAMMER training with national Occupational and Health Programs
 - Support the integration of props and simulations into training curriculum
 - Education Programs and the Learning Resource Center which serves as a liaison between educational and technical institutions and HAMMER in focused degree and continuing education programs.

In summary, this additional workscope is critical to successful operation of HAMMER.

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