

**Fire Protection Program  
Fiscal Year 1996  
Site Support Program Plan  
Hanford Fire Department**

D. E. Good

Date Published  
September 1995

Prepared for the U.S. Department of Energy



**Westinghouse  
Hanford Company**

P.O. Box 1970  
Richland, Washington

Management and Operations Contractor for the  
U.S. Department of Energy under Contract DE-AC06-87RL10930

Approved for Public Release

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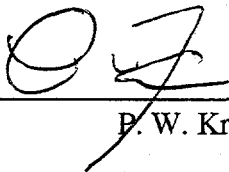
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# SITE SUPPORT PROGRAM PLAN APPROVAL SHEET

## FIRE PROTECTION PROGRAM - WHC 6.7.2.2


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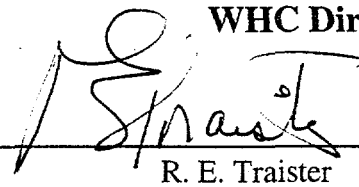
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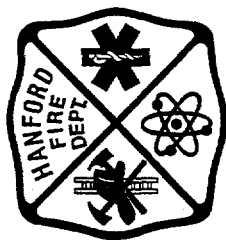
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September 15, 1995

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# Hanford Fire Department

FY 1996

# Site Support Program Plan

August 31, 1995

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# Section 1 - Program Overview

<p><b>1.A Vision/Mission</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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The mission of the Hanford Fire Department (HFD) is to support the safe and timely cleanup of the Hanford site by providing fire suppression, fire prevention, emergency rescue, emergency medical service, and hazardous materials response; and to be capable of dealing with and terminating emergency situations which could threaten the operations, employees, or interest of the U. S. Department of Energy operated Hanford Site. This includes response to surrounding fire departments/districts under a mutual aid agreement and contractual fire fighting, hazardous materials, and ambulance support to Washington Public Power Supply System (Supply System). The fire department also provides site fire marshal overview authority, fire system testing and maintenance, self-contained breathing apparatus maintenance, building tours and inspections, ignitable and reactive waste site inspections, prefire planning, and employee fire prevention education.

<p>1.B.1 Internal Assessment Summary</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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PRIMARY CUSTOMERS

Fire department services are provided to all Hanford DOE contractors and programs, sub-contractors, the Washington Public Power Supply System, the Bonneville Power Administration, and surrounding communities via mutual aid agreements.

PRODUCTS/SERVICES PROVIDED

The fire department provides life safety and property protection services on a 24 hour a day, 7 day-a-week basis and services which assure fire system operability through the call-in of fire systems maintenance personnel to repair emergency failures.

MAJOR ACTIVITIES PERFORMED TO DELIVERY PRODUCTS AND SERVICES

The specific activities and services performed by the fire department are described below:

Fire Suppression: In firefighting operations, the fire department's fire suppression effectiveness is put to the ultimate test. All of the activities used by the fire department must come together on the fireground. The HFD is trained, staff, and equipped to suppress any credible fire threat to the Hanford site. This includes special purpose building fires, structure fires, nuclear facility fires, and range or wildland fires.

Emergency Rescue: Rescue operations are the most important consideration at any fire or emergency incident and is the only acceptable reason for exposing firefighters to otherwise unnecessary risks. Hanford fire crews maintain the capability for emergency rescue from fire, building collapse, excavation cave in, confined space, vehicle accidents, and any other accident scenario requiring rescue services.

<p><b>1.B.1 Internal Assessment Summary</b> (cont.)</p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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Emergency Medical Services: These services are provided by utilizing the fire suppression personnel and cross-training them to be able to perform these essential life support tasks. These services include basic and advanced life support. Basic life support is generally limited to airway maintenance, ventilatory (breathing) support, CPR (cardio-pulmonary resuscitation), hemorrhage control, splinting of fractures, management of spinal injuries, stabilization and transportation of the patient. Advanced life support services include all basic life support measures plus invasive medical procedures, including: intravenous therapy; cardiac defibrillation; administration of antiarrhythmic medications and other specific drugs, medications, and solutions; use of adjunctive ventilation devices; and all other procedures authorized by Washington State Law.

Hazardous Materials Response: This additional service is provided to the Hanford Site by utilizing selected suppression personnel, who are cross-trained and certified to perform this essential activity. Included in this service is emergency response to all site hazardous material spills and releases for control actions. These actions involve containment, confinement, and termination of emergency situations to best protect the site employees and the environment.

Mutual Aid Response: This service is provided through written fire suppression and emergency medical plans and agreements with 10 different agencies, including surrounding fire districts, cities, and counties. Also included is a contractual agreement for firefighting and ambulance support to the Washington Public Power Supply System.

Fire System Testing and Maintenance: Fire alarm, fire suppression, and fire water distribution system testing is a service provided to all Hanford site DOE contractors and agencies. This same group, provides maintenance and repair services for all Westinghouse Hanford Company (WHC) facilities, for those ICF Kaiser facilities that were previously managed by WHC, Bechtel, the Bonneville Power Administration Ashe Substation, and the 313 Building operated by Kaiser Aluminum. These services include: functional testing of fire systems components, systems and devices in 526 Hanford buildings and facilities; and corrective and preventive maintenance of approximately 19,238 fire alarm and suppression system devices.

Self-Contained Breathing Apparatus (SCBA) maintenance and servicing: This service is provided to all Hanford contractors who own and operate SCBAs. The service includes annual and biannual inspections and functional tests of each of the approximately 550 SCBA units and over 600 high pressure breathing air cylinders located throughout the Hanford Site plus cleaning and recharging units and cylinders as required.

<p><b>1.B.1 Internal Assessment Summary</b> (cont.)</p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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Fire Prevention Program: This program is specifically authorized by DOE-RL and is administered as a part of the site fire protection program by the fire marshal. The fire marshal provides fire prevention, fire investigation, and fire and life safety education services using nationally recognized codes and standards. The prevention of fire causes and the ability to reduce potential injuries and to minimize losses when fires do occur is of the utmost priority.

EVALUATION OF MAJOR ACTIVITIES (COST, VALUE-ADDED, ETC.)

The services provided by the HFD, contribute directly to the safety of site personnel and facilities. Property loss is kept to a minimum, and personnel sickness or injuries are reduced in severity by providing prompt response of a well trained emergency response organization. Costs of services are shared by contractors through the common support pool and are kept very reasonable by having one organization with many cross-trained people able to fill a number of different emergency roles. Fire systems are tested and maintained to the requirements of national codes and standards by an efficient and cost effective organization established in response to a value engineering activity.

Building Tours and Inspections: Tours and inspections are conducted to familiarize suppression firefighters with building contents and any construction hazards of Hanford facilities and construction sites. These inspections include looking for code violations and potential fire hazards.

Prefire Planning: A prefire plan is an essential survey of a potential fire hazard and a plan for fighting a fire that might strike a particular occupancy or facility. This service is provided by the fire suppression personnel and is a sitewide service. The prefire planning process involves four steps: 1) information gathering; 2) information analysis; 3) information dissemination, and 4) review and fire scene training drills. The individual facility/building layout showing access routes, dimensions, fire systems, exposures, and fire hydrants. Details include the type of occupancy, special volatile materials and construction of adjacent buildings and the best position to station fire apparatus in relation to water supply, space, grade, and to protect exposures.

<p><b>1.B.1 Internal Assessment Summary</b> (cont.)</p>	<p><b>Westinghouse Hanford Company</b> <b>Hanford Fire Department</b> <b>Program Plan</b> <b>SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996</b> <b>Site Support Program Plan</b></p>
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**FACTORS WHICH INFLUENCE RESOURCE CONSUMPTION (CHANGES TO COST AND VOLUME)**

- When facilities are deactivated their fire systems typically remain in service and require testing and maintenance. These facilities also require continued fire protection.
- As testing and maintenance requirements (defined by NFPA codes and standards) change, the cost of compliance changes. In recent years, the trend has been slightly upward.
- During building demolition, the risk of worker injury increases, often necessitating the pre-positioning of an on-the-scene ambulance and rescue team or mobile first aid facility. Because of these factors the staffing and funding requirements of the HFD are expected to remain near constant or grow slightly over the next five years.

**FACTORS THAT INFLUENCE CHANGES IN TYPES OR NATURE OF PRODUCTS AND SERVICES**

The type and nature of the services provided by the fire department will vary slightly as the site population, and site mission changes with more emphasis placed on medical and rescue operations associated with the higher risk clean-up mission and demolition, recovery of structural materials, and construction. New buildings and systems are being activated while others are being removed from service with a net result of not much change for the foreseeable future.

Occasional changes to National Fire Protection Association (NFPA) codes and standards, Washington Administrative Codes (WACs), CFR/OSHA requirements, or DOE Orders can cause significant impacts to the type and quantity of services required. Such changes are part of the FY 1996 budget request, which factors in the cost of coming into compliance with several different NFPA codes and standards which have recently changed.

<p>1.B.2 External Assessment Summary</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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SUMMARY OF CUSTOMER REQUIREMENTS (NEEDS)

The Hanford Fire Department meets the needs of our DOE and contractor customers by providing timely emergency response services, reliable systems through testing and maintenance of fire systems, and an active fire prevention program. Meetings with DOE-RL occur several times monthly and meetings with site contractors occur at least twice monthly. These meetings are used as forums to discuss issues and services and to assure our services meet customer expectations. Formal assessments such as Value Engineering studies, external audits, and third party assessments are scheduled periodically to assure that our capabilities continue to meet customer desires and the requirements of DOE orders and appropriate national codes and standards. A 3rd party assessment of site risks is being conducted in FY 1996 at the request of RL. The results of this assessment will be used to help determine the site emergency service requirements now and in the future. Also during FY 1996, the HFD will participate in meetings with the City of Richland and RL to discuss emergency services needs and operations. WHC will not provide recommendations or judgements for fire department transitioning and outsourcing.

OTHER EXTERNAL CHALLENGES

As customer missions change, the HFD responds. For example, the increase in decontamination and decommissioning activities has previously prompted HFD to acquire an additional ambulance and crews to standby during the conduct of potentially hazardous demolition tasks. As private or non-DOE governmental agencies move on site or as site activities are privatized, HFD is negotiating to provide a full range of services to these entities. These services are currently being provided to the Washington Public Power Supply System reactor complex and Kaiser Aluminum (in the 300 Area's 313 Building). During FY 1996, service agreements are expected to be finalized with the Laser Interferometer Gravitational Wave Observatory (LIGO), the 400 Area facilities leased by the Port of Benton County (Washington), and with the Tank Waste Remediation System (TWRS) (if TWRS is privatized).

<p><b>1.C Goals and Objectives</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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GENERAL GOALS AND OBJECTIVES:

The goals and objectives of the HFD are the preservation of life by immediate, on-the-scene emergency medical treatment of the sick and injured, control and extinguishment of fires within the 560-square miles of the Hanford Site, and continuation of active testing, maintenance and prevention programs that minimize potential property losses and eliminate unsafe conditions. The HFD also has the objective to meet or exceed all federal, state, and DOE-mandated standards, requirements, and guidelines.

The general goals of the HFD are:

- ✓ Provide adequate fire protection at acceptable cost
- ✓ Reduce fire risks for the site
- ✓ Provide rescue capabilities
- ✓ Control fire losses through ongoing prevention activities and programs
- ✓ Achieve fire safety awareness at all levels of the Hanford Site
- ✓ Provide emergency medical life support services
- ✓ Provide hazardous materials control services
- ✓ Provide testing and maintenance that assures properly functioning fire systems
- ✓ Provide mutual aid services
- ✓ Reduce overlapping services to other programs and organizations

SPECIFIC OBJECTIVES:

Fire Suppression - Provide a well-trained, effective fire suppression force for the preservation of life and property as related to the Hanford Site.

Emergency Rescue - Maintain a well-trained, ready to respond emergency force for rescue operations and preservation of life.

<p>1.C Goals and Objectives (cont.)</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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Emergency Medical Services - Provide both basic and advanced life support services to all personnel located on the Hanford Site.

Fire Alarm System Testing and Maintenance - Provide site-wide fire and alarm suppression system testing to assure the operability of installed fire systems.

Hazardous Materials Response - Provide emergency response capabilities to control, contain, confine, and terminate the emergency situation for protecting the site employees, facilities, and environment.

Mutual Aid Response - Provide, when requested, emergency fire suppression and medical resources to the surrounding cities, fire districts and counties as per pre-approved agreements and contractual agreements with the Washington Public Power Supply System.

Self-Contained Breathing Apparatus (SCBA) Maintenance - Provide factory trained personnel to maintain and overhaul all site SCBA units and high-pressure breathing air cylinders.

Fire Systems Maintenance - Maintain a trained and qualified multi-disciplined organization to maintain and upgrade fire systems and to assure that failed systems are returned to service in a timely and efficient manner.

Building Tours and Inspections - Provide well-trained personnel to perform site-wide building and construction site inspections.

Prefire Planning - Conduct prefire planning on all high hazard areas and facilities on an annual basis and all other facilities/buildings as per HFD prescribed schedules for updating and maintaining current information for strategic planning of emergency operations on the Hanford Site.

Fire Prevention Program - Provide code compliance inspection and overviews of all facilities, buildings, and construction sites for the purpose of preventing fires from occurring and reduce the dollar loss in the ones that do occur.

<p>1.D Strategies</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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CUSTOMER SUPPORT STRATEGIES

- √ Provide fire suppression, emergency rescue, emergency medical services, hazardous materials response capabilities, building tours and inspections, prefire planning, and fire prevention activities from the 200 Area fire station with a 24-hour per day pumper crew and ambulance crew.
- √ Provide fire suppression, emergency rescue, emergency medical services, building tours and inspections, prefire planning, and fire prevention activities from the 400 Area fire station with a 24-hour per day pumper crew and ambulance crew.
- √ Provide fire suppression, emergency rescue, emergency medical services, hazardous materials response, capabilities, building tours and inspections, prefire planning, and fire prevention activities from the 300 Area fire station with a 24-hour per day pumper crew and ambulance crew.
- √ Provide fire system testing and maintenance support to customer organizations through a single multi-craft, multi-disciplined organization staffed with craft, engineers, planners/schedulers, and firefighters.
- √ Provide fire suppression, emergency rescue, emergency medical services, building tours and inspections, prefire planning, and fire prevention activities from the 100 Area fire station with a 24-hour per day pumper crew and ambulance crew.
- √ Provide a fire prevention program for the purpose of preventing most site fires from occurring and reducing the losses of the ones that do occur.
- √ Provide direct-funded fire protection system maintenance support for maintaining WHC fire alarm systems and components.

<p>1.D Strategies (cont.)</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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- √ Provide 24-hour-a-day dispatch capabilities. This task encompasses the timely dispatch of emergency responses to both onsite emergencies and offsite mutual aid emergencies.
- √ Provide emergency command officers for on-the-scene command of site emergencies and control of the fireground operations.
- √ Provide innovative program management through diversification and utilization of all available resources. Program management has adapted to the change-oriented environment and will remain in line with the new mission at Hanford.
- √ Remain efficient and cost-effective through continuous periodic self-assessment, customer feedback, and external assessment by independent third party sources.

ORGANIZATION AND MANAGEMENT STRATEGIES

Constantly seek self-improvement through employee involvement in an enthusiastic total quality program encompassing the WHC productivity improvement program, the Behavior Based Safety Program, the Voluntary Protection Program, self-assessments, and team building.

1.E Assumptions	Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2	FY 1996 Site Support Program Plan
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- √ The level and type of services provided to site contractors in FY 1996 will be consistent with service levels for FY 1995.
- √ HFD will continue to supply the same range of services as currently provided in the 313 building for Kaiser Aluminum company and for the Washington Public Power Supply System complex..

<p><b>1.F Issues and Constraints</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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- √ Implementation of the new NFPA 1582 Firefighter Medical Requirements will require a risk management review by Legal and Labor Relations regarding the impacts of this new standard on the existing work force; i.e., firefighters and managers.
- √ Implementation of the NFPA 1500 physical fitness requirements for firefighters will require negotiations with HAMTC firefighters and a risk management review by Legal and Labor Relations regarding the impacts on the existing work force; i.e., firefighters and managers.
- √ It is anticipated that during this fiscal year, HFD personnel will be asked to participate in the HAZWOPER emergency response demonstration pilot and other HAMMER-related support activities. That workscope is not included in this plan and will have to be addressed via change control once task scoping activities are completed. Fixed staffing levels will result in this work having a significant impact on other planned tasks by key department personnel.
- √ Activities are currently underway that are expected to result in a transfer of some respiratory protection workscope to the HFD early in FY 1996. If and when this transfer occurs, the SSPP will be modified to reflect the changes in budget and FTEs.
- √ Privatization and economic transition activities are expected to accelerate this fiscal year and the planning and special studies associated with them will be an unplanned impact to departmental workscope and budget. The scope and cost of these activities will be addressed via change control as appropriate.

<p>1.G Performance Measures</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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The fire department routinely reports on several different performance measures. The specific performance measures reported, the frequency report, and the organizations reported to are provided below:

Performance Measures	Report Frequency	Organization Reported To
Fire Alarm Responses	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Ambulance Runs	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Cost Reduction Proposal Status	Weekly	Department Manager and Division Manager
Monthly	DOE-RL	
SCBA Maintenance Statistics	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Training: given and received	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Complete 100 % of fire system testing for the year	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Complete 85 % of fire systems preventive maintenance for the year	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL

<p>1.G Performance Measures (cont.)</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1996 Site Support Program Plan</p>
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Performance Measures	Report Frequency	Organization Reported To
Complete 90% of special inspections during the month in which they are scheduled.	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Complete 90% of building tours during the quarter	Quarterly	Building Managers, WHC-Senior Staff, and DOE-RL
Delivery of 95% of fire prevention training during the month it is scheduled	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Investigate 100% of reported fires during the month they are reported	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL
Process 100% of fire permits within three working days of date requested	Monthly	Building Managers, WHC-Senior Staff, and DOE-RL

# Section 2 - Program Baselines

# Technical Baseline

2.A.1 Work Breakdown Structure and Responsibility Assignment Matrix		Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2			FY 1996 Site Support Program Plan	
Program Element	Activity/Program Sub-Element	Cost Account	Title	Responsible Manager	Responsible Organization	
6.7.2						
	6.7.2.2	1J8R00	Hanford Fire Department	D. E. Good	8R000, Hanford Fire Management	
	6.7.2.2.1	1MDBOB	Life Safety, Property Protection, and Fire Systems Testing	D. E. Good	8R000, Hanford Fire Department	
	6.7.2.2.2	1MDCOF	Fire Systems Maintenance	E. Blankingship	8R600, Fire Systems Operational Assurance	

2.A.2 Description of Activities	Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2	FY 1996 Site Support Program Plan
ACTIVITY	DESCRIPTION	
6.7.2.2.1	Life Safety and Property Protection services including: firefighting, emergency medical response, hazardous material response for containment and cleanup, fire systems functional testing, rescue services, SCBA servicing and repair, and fire prevention.	
6.7.2.2.2	Fire Systems Operational Assurance, maintenance, and repair of fire protection systems for WHC, ICF Kaiser, and Bechtel.	

Technical Objectives		Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2		FY 1996 Site Support Program Plan	
Program Sub-Element	Task	Title	Technical Objectives		
6.7.2.2	6.7.2.2.1	Life Safety, Property Protection, and Fire Systems Testing	Provide timely response to fire, medical, rescue, and hazardous materials emergencies on the Hanford Site and offsite as covered by existing aid agreements. Provide operational testing of fire alarm, fire suppression, and fire water distribution systems on site.		
	6.7.2.2.2	Fire Systems Maintenance	Perform preventive and repair maintenance on fire systems installed in or supporting facilities operated by WHC, Bechtel Hanford, those ICF Kaiser facilities previously managed by WHC, and other site facilities covered by agreements or memoranda of understanding.		

# Section 3 - Schedule Baseline

2.B.1 Milestone List		Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2		FY 1996 Site Support Program Plan	
Milestone		Milestone Description		Due Date	
Type	Number	WBS Number			
DOE-RL	96-HFD-001	6.7.2.2.1	Fire System Testing Completion		09/30/96
DOE-RL	96-HFD-002	6.7.2.2.2	Fire System Preventive Maintenance Completion		09/30/96
DOE-RL	96-HFD-003	6.7.2.2.1	3rd Party Assessment Completion		05/15/96
DOE-RL	96-HFD-004	6.7.2.2	SCBA Upgrades		09/30/96
DOE-RL	96-HFD-005	6.7.2.2	Bar code control of SCBA equipment		09/30/96
DOE-RL	96-HFD-006	6.7.2.2	Develop statistical process control based performance measurements		05/15/96

# Milestone Description Sheets

# Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: Fire System Testing Completion	Date: 10/01/95
Assigned To: Hanford Fire Department, W. M. Knight	CIN:
Program WBS Designator: 6.7.2.2.2	Due Date: 09/30/96
Control Number: 96-HFD-001	Rev.:

<b>MILESTONE TYPE:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b> <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number _____	<b>DELIVERABLE:</b> <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**  
 Complete 100 percent of the fire system testing scheduled for the year

**Description of what constitutes completion of this milestone:**  
 Progress on completion of the commitment will be measured in the statistics provided to RL in the fire department's monthly report. Tests that cannot be performed due to circumstances beyond the control of the fire department will not be included in this milestone.

Account Manager	Date	Program/Project Manager	Date
D. E. Good	<i>D. E. Good 8/30/95</i>	n/a	
Program Element Manager	Date	DOE Monitor	Date
D. E. Good	<i>D. E. Good 8/30/95</i>	W. B. Scott	

Hanford Fire Department Program  
6.7.2.2 Page 26  
August 31, 1995

WHC-SP- Rev. 2

## Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: Fire System Preventive Maintenance Completion	Date: 10/01/95
Assigned To: Hanford Fire Department, E. Blankingship	CIN:
Program WBS Designator: 6.7.2.2.2	Due Date: 09/30/96
Control Number: 96-HFD-002	Rev.:

<b>MILESTONE TYPE:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b>  <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number <hr style="width: 50%; margin-left: 0;"/>	<b>DELIVERABLE:</b>  <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**  
 Complete 85 percent of the preventive maintenance scheduled for performance by HFD personnel for the year.

**Description of what constitutes completion of this milestone:**  
 Completion of 85 percent of scheduled preventive maintenance as measured in the statistics provide to RL in the fire department monthly operations report. PMs that cannot be completed due to circumstances beyond the control of the HFD will not be included in this milestone.

Account Manager	Date	Program/Project Manager	Date
D. E. Good <i>D.E. Good</i>	8/30/95	n/a	
Program Element Manager	Date	DOE Monitor	Date
D. E. Good <i>D.E. Good</i>	8/30/95	W. B. Scott	

Hanford Fire Department Program 1  
6.7.2.2 Page 27  
August 31, 1995

WHC-SP-1, Rev. 2

## Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: 3rd Party Assessment Completion	Date: 10/01/95
Assigned To: Hanford Fire Department, W. R. Hayes	CIN:
Program WBS Designator: 6.7.2.2.1	Due Date: 05/15/96
Control Number: 96-HFD-003	Rev.:

<b>MILESTONE TYPE:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b>  <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number <hr style="width: 50%; margin-left: 0;"/>	<b>DELIVERABLE:</b>  <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**

Oversee the performance and completion of an independent 3rd party assessment to determine the emergency and non-emergency fire department services required for the Hanford Site now and in the future.

**Description of what constitutes completion of this milestone:**

Completion of this milestone will be reached when a fire department needs assessment document and a fire department master plan document have been delivered to the Hanford Fire Department in final form.

Hanford Fire Department Program

Account Manager	Date	Program/Project Manager	Date
D. E. Good	<i>D. E. Good</i> 8/30/95	n/a	
Program Element Manager	Date	DOE Monitor	Date
D. E. Good	<i>D. E. Good</i> 8/30/95	W. B. Scott	

S 6.7.2.2 Page 28  
August 31, 1995

WHC 105, Rev. 2

## Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: SCBA Upgrades	Date: 10/01/95
Assigned To: Hanford Fire Department, W. R. Hayes	CIN:
Program WBS Designator: 6.7.2.2.1	Due Date: 09/30/96
Control Number: 96-HFD-004	Rev.:

<b>MILESTONE TYPE:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b>  <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number <hr style="width: 50%; margin-left: 0;"/>	<b>DELIVERABLE:</b>  <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b>  <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**  
 Modify or replace equipment as necessary to assure that 75 percent of the firefighting SCBA equipment is in compliance with NFPA 1981 revision of 1994.

**Description of what constitutes completion of this milestone:**  
 Purchase new HFD SCBA equipment and/or modify existing equipment to meet the requirements of NFPA 1981. Report completion of 75 percent or higher to RL.

Account Manager	Date	Program/Project Manager	Date
D. E. Good	8/30/95	n/a	
Program Element Manager	Date	DOE Monitor	Date
D. E. Good	8/30/95	W. B. Scott	

Hanford Fire Department Program  
 SS 6.7.2.2 Page 29  
 August 31, 1995

WHC 1105, Rev. 2

## Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: Bar Code Control of SCBA Equipment	Date: 10/01/95
Assigned To: Hanford Fire Department, W. M. Knight	CIN:
Program WBS Designator: 6.7.2.2	Due Date: 09/30/96
Control Number: 96-HFD-005	Rev.:

<b>MILESTONE TYPE:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b> <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number <hr style="width: 50%; margin-left: 0;"/>	<b>DELIVERABLE:</b> <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**

Implement a bar coding based equipment tracking system for HFD-owned SCBA equipment.

**Description of what constitutes completion of this milestone:**

Completion will be identified through an accurate tracking system of HFD-owned SCBA equipment, using a bar-coding based system and as reported in the fire department's monthly operations report to RL.

Hanford Fire Department Program

Cost Account Manager D. E. Good <i>D. E. Good</i> 8/30/95	Program/Project Manager n/a
Program Element Manager D. E. Good <i>D. E. Good</i> 8/30/95	DOE Monitor W. B. Scott

S 6.7.2.2 Page 30  
August 31, 1995

WHC  
05, Rev. 2

## Westinghouse Hanford Company MILESTONE DESCRIPTION SHEET

Title: Develop statistical process control based performance measurements	Date: 10/01/95
Assigned To: Hanford Fire Department, D. E. Good	CIN:
Program WBS Designator: 6.7.2.2	Due Date: 05/15/96
Control Number: 96-HFD-006	Rev.:

<b>MILESTONE TYPE:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> CNTR	<b>DIVISION:</b> <input type="checkbox"/> State <input type="checkbox"/> Federal <input checked="" type="checkbox"/> DOE <input type="checkbox"/> RCRA <input type="checkbox"/> TPA Number <hr style="width: 50%; margin-left: 0;"/>	<b>DELIVERABLE:</b> <input checked="" type="checkbox"/> Report <input type="checkbox"/> Letter <input type="checkbox"/> Drawings <input type="checkbox"/> Other (specify)	<b>ADDRESS TO:</b> <input type="checkbox"/> DOE-HQ <input checked="" type="checkbox"/> DOE-RL <input type="checkbox"/> Other (specify)
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**Milestone description:**

Finalize the delivery of performance measurements for identified fire department activities using proven statistical process control methodology based on Deming's Theory of Variation.

**Description of what constitutes completion of this milestone:**

Inclusion of identified performance measurements in the fire department's monthly operations report to RL.

Hanford Fire Department Program  
S 6.7.2.2 Page 31  
August 31, 1995

Cost Account Manager D. E. Good <i>D. E. Good</i> 8/30/95	Program/Project Manager n/a
Program Element Manager D. E. Good <i>D. E. Good</i> 8/30/95	DOE Monitor W. B. Scott

# Cost Baseline

**Work Breakdown Structure Dictionary**

**Westinghouse Hanford Company**  
 HANFORD FIRE DEPARTMENT  
**Part I - Summary**  
 (Dollars in 000's)

**FY 1996 Indirect Program Plan Rev. # 0**  
 31-Aug-95

Cost Account Number 1JBR00	Cost Account Title HANFORD FIRE DEPARTMENT	Proposed Rate: (Rated Service Pool Only)
SMS WBS Number 6.7.2.2	SMS Title HANFORD FIRE DEPARTMENT OVERHEAD	Funding Source: G&A
RL SMS Program Manger W.B. SCOTT		SWS
Cost Account Manager D.E. GOOD		OST
WHC SMS Program Manager D.E. GOOD		DOH XXXXXXXXXXXXX
Financial Manager D.L. BORDERS		MGT PRO
Responsible Analyst O. JOHNSON		POOL

TYPE OF FTE	FY 1996 Approved Funding Full-Time Equivalents (FTEs)			FY 1996 Unfunded Full-Time Equivalents (FTEs)			FY 1996 Baseline Full-Time Equivalents (FTEs)		
	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining
Organizational	2.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0	0.0
Support	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
<b>TOTAL FTEs</b>	<b>2.5</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.5</b>	<b>1.0</b>	<b>0.0</b>

COST ELEMENTS	FY 1996 Approved Funding Budget			FY 1996 Unfunded Budget			FY 1996 Baseline Budget		
	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining
Labor - Regular			\$210						\$210
Labor - Overtime			\$0						\$0
0 Total Labor			\$210			\$0			\$210
1 Materials			\$0						\$0
2 Purchased Services			\$8						\$8
3 Other Hanford			\$1						\$1
<b>Subtotal Originated Costs</b>			<b>\$219</b>			<b>\$0</b>			<b>\$219</b>
4 Site Services			\$101						\$101
5 Internal Charges			\$67						\$67
6 IRM Support			\$13						\$13
7 Overheads			\$12						\$12
8 Revenue									\$0
<b>TOTAL DOLLARS</b>			<b>\$412</b>			<b>\$0</b>			<b>\$412</b>

**SIGNATURES**  
 Financial Analyst: *[Signature]* Date: 9/25/95  
 CAM: *[Signature]* Date: 9/25/95

**BASELINE APPROVAL**  
 \_\_\_\_\_ Date: \_\_\_\_\_

**COST ACCOUNT NARRATIVE SUMMARY**

WHC-SP-1105, Rev. 2

Funded under this CAP are the activities of the Chief, Hanford Fire Department, the chief's secretary, and the fire department's activity administrator. Also covered is the passdown from the level 1 organization and overhead costs to the department from other supporting organizations.

**APPROVED FUNDING BUDGET:**

Activity Detailed Description	FY 1996	
	FTEs	Dollars
<b>FIRE DEPARTMENT MANAGEMENT AND ADMINISTRATION SALARIES</b>		
	EX	\$132,860
	NEX	\$38,584
Total Activity Cost	3.0	\$171,444
<b>PROJECT &amp; SITE SERVICES SUPPORT</b>		
	EX	\$38,311
Total Activity Cost	0.5	\$38,311
	Purch Serv.	\$8,000
	Other Hanford	\$1,000
	Site Serv.	\$101,445
	Internal Chgs.	\$66,900
	Info. Serv.	\$13,000
Total Activity Cost		\$190,345
	Overhead (7C)	\$11,900
Total Activity Cost		\$11,900
<b>Total Page</b>		
<b>Total Approved Originated Budget</b>	<b>3.5</b>	<b>\$412,000</b>
<b>Total Approved Non-Originated Budget</b>	<b>0.0</b>	<b>\$219,000</b>
<b>Total Approved Funding &amp; Unfunded Budgets</b>	<b>0.0</b>	<b>\$193,000</b>
	<b>3</b>	<b>\$412,000</b>

**Work Breakdown Structure Dictionary**

**Westinghouse Hanford Company**  
 HANFORD FIRE DEPARTMENT  
**Part I - Summary**  
 (Dollars in 000's)

WHY  
**FY 1996 Indirect Program Plan Rev. # 0**  
 31-Aug-95

Cost Account Number 1MDB0B	Cost Account Title HANFORD FIRE DEPARTMENT	Proposed Rate: (Rated Service Pool Only)
SMS WBS Number 6.7.2.2.1	SMS Title LIFE SAFETY, PROPERTY PROTECTION, FIRE SYSTEMS TESTING	Funding Source: G&A
RL SMS Program Manager W.B. SCOTT		SWS XXXXXXXXXXXXX
Cost Account Manager D.E. GOOD		OST
WHC SMS Program Manager D.E. GOOD		DOH
Financial Manager D.L. BORDERS		MGT PRO
Responsible Analyst O. JOHNSON		POOL

TYPE OF FTE	FY 1996 Approved Funding Full-Time Equivalents (FTEs)			FY 1996 Unfunded Full-Time Equivalents (FTEs)			FY 1996 Baseline Full-Time Equivalents (FTEs)		
	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining
Organizational	22	1	88	0	0	0	22	1	88
Support							0	0	0
<b>TOTAL FTEs</b>	<b>22</b>	<b>1</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>1</b>	<b>88</b>

COST ELEMENTS	FY 1996 Approved Funding Budget			FY 1996 Unfunded Budget			FY 1996 Baseline Budget		
1 Labor - Regular	\$6,270								\$6,270
2 Labor - Overtime	\$630								\$630
3 Total Labor	\$6,900					\$0			\$6,900
4 Materials	\$528								\$528
5 Purchased Services	\$432								\$432
6 Other Hanford	\$65								\$65
<b>Subtotal Originated Costs</b>	<b>\$7,925</b>					<b>\$0</b>			<b>\$7,925</b>
7 Site Services	\$1,009								\$1,009
8 Internal Charges	\$375								\$375
9 IRM Support	\$309								\$309
10 Overheads	\$317								\$317
11 Revenue									\$0
<b>TOTAL DOLLARS</b>	<b>\$9,935</b>					<b>\$0</b>			<b>\$9,935</b>

**SIGNATURES**  
 Financial Analyst: *[Signature]* Date: 9/25/95  
 CAM: *[Signature]* Date: 9/25/95

**BASELINE APPROVAL**  
 \_\_\_\_\_ Date: \_\_\_\_\_

**COST ACCOUNT NARRATIVE SUMMARY**

**APPROVED FUNDING BUDGET:**

Activity Detailed Description

ACTIVITY #1 - Fundamental Fire Suppression (24 hour) (200 & 300 Areas)	EX Shift	6.0	\$419,679
This level of service provides around-the-clock, fundamental fire suppression, building tours and inspections, and prefire planning. The individuals assigned to emergency response crews are cross-trained to perform multiple suppression duties -- structural, wildland, and radiological -- and interact with the other fire station to meet minimum staffing requirements.	EX OT		\$57,406
	BU	21.0	\$1,085,790
	BU OT		\$111,633
	EX Days	1.0	\$66,503
<b>Total Activity Cost</b>		<b>28.0</b>	<b>\$1,741,010</b>

Activity Detailed Description

ACTIVITY #2 - 24-Hour Emergency Medical (200 Areas)	BU Shift	6.0	\$325,737
This ambulance would be staffed around the clock with advanced life support (ALS) capabilities. Ambulances are licensed under the Washington State Department of health and attendants are trained to meet the airborne pathogens and communicable disease prevention requirements under OSHA 29CFR 1910.1030. Paramedics are cross-certified as firefighters but would not be available to augment minimum staffing requirements. At this level there is no absence relief or backup medical response.	BU OT		\$31,895
<b>Total Activity Cost</b>		<b>6.0</b>	<b>\$357,632</b>

Activity Detailed Description

ACTIVITY #3 - Supplementary Fire Suppression (24 hour) (100 & 400 Areas)	EX Shift	6.0	\$419,679
This level of service would allow complete fire suppression capabilities, including hazardous materials and specialized rescue responses, building tours and inspections, fire watch, emergency prefire planning, and fire hydrant testing. The individuals assigned to emergency response crews are cross-trained to perform multiple emergency tasks and interact with other fire stations to meet minimum staffing requirements.	EX OT		\$57,406
	BU Shift	21.0	\$1,140,080
	BU OT		\$111,633
	EX Days	1.0	\$133,006
<b>Total Activity Cost</b>		<b>28.0</b>	<b>\$1,861,803</b>

Activity Detailed Description

ACTIVITY #4 - Dayshift Emergency medical (100, 300, & 400 Areas)	BU Shift	6.0	\$325,737
This level of service would provide dayshift, Monday through Friday, emergency medical response capability in the 100, 300, and 400 Areas during peak occupancy and operational periods.	BU OT		\$31,895
<b>Total Activity Cost</b>		<b>6.0</b>	<b>\$357,632</b>

Activity Detailed Description

ACTIVITY #5 - Administrative, Enforcement, & Support Services	EX Days	3	\$199,508
This level of service provides operational control and fire ground safety, administration, clerical, and code enforcement through the fire marshal's office. Statistical reporting of fire protection system performance; emergency incident reports; ignitable and reactive waste inspections; issuance of permits for controlled burning, occupancy, and demolition; and fire investigations are all provided within this task. Included in this task for FY 1996 is \$307K to fund completion of a 3rd party assessment of HFD services. This assessment was requested by RL, was a FY 1995 milestone, and is expected to be a FY 1996 milestone. Also included in this activity is funding for an administrative assistant position, which was overhead funded in FY 1995.	EX OT		\$16,785
	NEX	1	\$38,584
	NEX OT		\$2,538
	Materials		\$528,000
	Purch. Serv.		\$432,000
	Other Hanford		\$65,000
	Site Services		\$1,009,000
	Internal Chgs.		\$375,000
	Info. Services		\$309,000
	Overhead		\$317,000
<b>Total Activity Cost</b>		<b>4.0</b>	<b>\$3,292,415</b>

Page Total

		<b>72.0</b>	<b>\$7,610,492</b>
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**Part II - Activity**

**APPROVED FUND BUDGET:**

**Activity Detailed Description**

Activity Detailed Description	CAP # 1MDB0B	
	FY 1996	Dollars
<p><b>ACTIVITY #6 - Fire Protection System Assurance (Site-wide)</b>                      This level of service provides functional testing of fire protection systems in all DOE-owned facilities on the Hanford Site. The group is responsible for system configuration for these life safety systems. There are 530 facilities on site with operating fire protection systems. This group maintains the central auditable records for all fire system activity across the site. The firefighters assigned to this group perform functional testing of all site fire systems. These firefighters are also cross-trained to perform as emergency responders, providing immediate backup during emergencies.</p>	EX Day 2.0 EX OT \$133,006 BU Days \$8,523 BU OT \$1,306,305 \$127,645	27.0 \$1,575,479
<p><b>ACTIVITY #7 - Offshift Emergency Medical (100, 300 &amp; 400 Areas)</b>                      This level of service provides around-the-clock, offshift emergency medical response capability from all fire stations. Medical attendants are cross-trained as firefighters and, when not performing medical services, provide resources necessary to maintain minimum staffing to support multiple or secondary emergency incidents and absence relief.</p>	BU Shift \$325,737 BU OT \$31,895	6.0 \$357,632
<p><b>ACTIVITY #8 - Training and Employee Education</b>                      This level of service provides the required certifications and ongoing training necessary to operate an emergency response organization. Medical services, firefighting, confined space rescue, haz-mat emergencies, fire prevention education and fire investigation all depend on a level of professional competency to perform in an acceptable and safe manner. The primary duties of the training and fire prevention education officers are to provide instruction and/or support materials to all fire department members and site employees.</p>	EX Days \$199,508 EX OT \$12,785	3.0 \$212,293
<p><b>ACTIVITY #9 - Emergency Dispatch (24 hour)</b>                      This level of service is located in the central fire station and receives all fire alarm and trouble signals from across the site. Emergency responders are dispatched from this location for all four fire stations. Dispatchers also update the computer aided dispatch (CAD) system to provide critical information for emergency response. The alarm system is classified as a Class 1 system, as defined under NFPA 1221. This function also alarms from occurring during on-going testing and maintenance activities. This function also dispatches all emergency medical responses (ambulances) for the site.</p>	BU Shift \$162,869 BU OT \$15,948	3.0 \$178,816
<b>Total Activity Cost</b>		<b>39.0</b>
<b>Total Approved Funding Originated Budget</b>		<b>\$2,324,220</b>
<b>Total Approved Funding Non-Originated Budget</b>		<b>\$7,925,000</b>
<b>Total Approved Funding Budget</b>		<b>\$2,009,713</b>
<b>Total Approved Funding Budget</b>		<b>\$9,934,713</b>

**Total Page**

**Total Approved Funding Originated Budget**

**Total Approved Funding Non-Originated Budget**

**Total Approved Funding Budget**

**Work Breakdown Structure Dictionary**

**Westinghouse Hanford Company**  
 HANFORD FIRE DEPARTMENT  
**Part I - Summary**  
 (Dollars in 000's)

WHC  
**FY 1996 Indirect Program Plan Rev. # 0**  
 31-Aug-95

05, Rev. 2

Cost Account Number 1MDC0F	Cost Account Title FIRE SYSTEMS MAINTENANCE
SMS WBS Number 6.7.2.2.2	SMS Title FIRE SYSTEMS MAINTENANCE
RL SMS Program Manger W.B. SCOTT	
Cost Account Manager D.E. GOOD	
WHC SMS Program Manager D.E. GOOD	
Financial Manager D.L. BORDERS	
Responsible Analyst O. JOHNSON	

TYPE OF FTE	FY 1996 Approved Funding			FY 1996 Unfunded			FY 1996 Baseline		
	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining	Exempt	Non-Exempt	Bargaining
Organizational	12	2	19	0	0	0	12	2	19
Support	0	0	0	0	0	0	0	0	0
<b>TOTAL FTEs</b>	<b>12</b>	<b>2</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>2</b>	<b>19</b>
Labor - Regular			\$1,868						\$1,868
Labor - Overtime			\$112						\$112
0 Total Labor			\$1,980			\$0			\$1,980
1 Materials			\$234						\$234
2 Purchased Services			\$63						\$63
3 Other Hanford			\$6						\$6
<b>Subtotal Originated Costs</b>			<b>\$2,283</b>			<b>\$0</b>			<b>\$2,283</b>
4 Site Services			\$340						\$340
5 Internal Charges			\$208						\$208
6 IFM Support			\$126						\$126
7 Overheads			\$95						\$95
8 Revenue			\$0						\$0
<b>TOTAL DOLLARS</b>			<b>\$3,052</b>			<b>\$0</b>			<b>\$3,052</b>

**SIGNATURES**  
 Financial Analyst: *[Signature]* Date: 9/25/95  
 CAM: *[Signature]* Date: 9/25/95

**BASELINE APPROVAL**  
 \_\_\_\_\_ Date: \_\_\_\_\_

**Part II - Activity**

CAP # 1MDC0F

**COST ACCOUNT NARRATIVE**

Fire System Maintenance: Fire alarm, fire suppression, and fire water distribution maintenance service is provided for all Westinghouse Hanford Company (WHC) facilities, for those ICF Kaiser facilities that were previously managed by WHC, Bechtel, the Bonneville Power Administration, Ashe Substation, and the 313 Building operated by Kaiser Aluminum. These services include: functional testing of fire system components, systems and devices in 530 Hanford buildings and facilities; and corrective and preventive maintenance of approximately 19,238 fire alarm and suppression system devices.

WBS 67.2.2-1105, Rev. 2

**APPROVED FUNDING BUDGET:**

Activity Detailed Description	FY 1996	
	FTEs	Dollars
MF MAD - This activity involves the administrative, management, procurement, and procedure development tasks performed by the fire system maintenance organization. Included are secretarial costs, material coordinator costs, and all non-labor related costs for the organization.	5 2 3	\$332,514 \$77,168 \$1,269
		\$156,757 \$234,000 \$63,000 \$6,000 \$340,000 \$208,000 \$126,000 \$95,000
<b>Total Activity Cost</b>	<b>10</b>	<b>\$1,639,707</b>
MFMPM - This activity involves the maintenance of electrical fire systems in facilities located north of the Wye Barricade.	3	\$199,508
		\$1,474 \$313,513 \$40,057 \$554,553
<b>Total Activity Cost</b>	<b>9</b>	<b>\$554,553</b>
MFMRP - This activity involves the maintenance of fire systems (mechanical and electrical) located in facilities south of the Wye Barricade. Included in this activity is the engineering and planning/scheduling support for these tasks.	1	\$66,503
		\$478 \$209,009 \$26,705 \$302,695
<b>Total Activity Cost</b>	<b>5</b>	<b>\$302,695</b>
MFMT R - This activity involves the maintenance of mechanical fire systems, such as sprinklers, hydrants, and ground gate valves, north of the Wye Barricade. Included in this activity is the engineering and planning/scheduling support for these tasks.	3	\$199,508
		\$1,474 \$313,513 \$40,057 \$554,553
<b>Total Activity Cost</b>	<b>9</b>	<b>\$554,553</b>
<b>Page Total</b>	<b>33</b>	<b>\$3,051,507</b>
<b>Total Approved Funding Originated Budget</b>		<b>\$2,283,000</b>
<b>Total Approved Funding Non-Originated Budget</b>		<b>\$785,507</b>
<b>Total Approved Funding Budget</b>		<b>\$3,051,507</b>

<p><b>2.C.1 Cost Baseline by Program Element</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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**FY 1995 Cost Baseline**  
(\$s in 000s)

WBS No.	Title	Total \$s
6.7.2.2.1	Life Safety, Property Protection, and Fire Systems Testing	\$9,342.0
6.7.2.2.2	Fire Systems Maintenance	\$3,257.0
FY 1995 Total for 6.7.2.2		<b>\$12,599.0</b>

Excludes company adders (G&A and CSP/Oversight)

**FY 1996 Cost Baseline**  
(\$s in 000s)

WBS No.	Title	Total \$s
6.7.2.2.1	Life Safety, Property Protection, and Fire Systems Testing	\$9,935.0
6.7.2.2.2	Fire Systems Maintenance	\$3,052.0
FY 1996 Total for 6.7.2.2		<b>\$12,987.0</b>

Excludes company adders (G&A and CSP/Oversight)

<b>2.C.1</b> Cost Baseline by Program Element (cont.)	Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2	FY 1996 Site Support Program Plan
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**FY 1997 Cost Baseline**  
(\$s in 000s)

WBS No.	Title	Total \$s
6.7.2.2.1	Life Safety, Property Protection, and Fire Systems Testing	\$9,929.2
6.7.2.2.2	Fire Systems Maintenance	\$3,143.6
FY 1997 Total for 6.7.2.2		<b>\$13,072.8</b>

Excludes company address (G&A and CSP/Oversight)

**FY 1998 Cost Baseline**  
(\$s in 000s)

WBS No.	Title	Total \$s
6.7.2.2.1	Life Safety, Property Protection, and Fire Systems Testing	\$10,227.1
6.7.2.2.2	Fire Systems Maintenance	\$3,237.9
FY 1998 Total for 6.7.2.2		<b>\$13,465.0</b>

Excludes company address (G&A and CSP/Oversight)

<p><b>2.C.1.1 Cost Baseline by Activity</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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**FY 1995 Cost Baseline**  
(Dollars in Thousands)

Activity	Description	Total \$s
6.7.2.2.1	Life safety and property protection including fire suppression, rescue, emergency medical response, HAZMAT response, fire prevention, SCBA servicing and repair, and functional testing of fire alarm and suppression systems.	\$9,342.0
6.7.2.2.2	Preventive and repair maintenance of all fire systems installed in most ICF Kaiser and all WHC and Bechtel buildings and facilities located on site.	\$3,257.0
[Excludes company adders (G&A and CSP/Oversight)]		<b>FY 1995 Total for (SMS/WBS No)</b> \$12,599.0

**FY 1996 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2.1	Life safety and property protection including fire suppression, rescue, emergency medical response, hazardous materials response, fire systems testing, fire prevention, and SCBA servicing and repair. Includes 1) \$295.0K funding to complete a DOE-RL requested 3rd party assessment of fire protection services at Hanford.	\$9,935.0
6.7.2.2.1	Fire systems preventive maintenance and repair.	\$3,052.0
[Excludes company adders (G&A and CSP/Oversight)]		<b>FY 1996 Total for (SMS/WBS No)</b> \$12,987.0

<p><b>2.C.1.1 Cost Baseline by Activity (cont.)</b></p>	<p><b>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</b></p>	<p><b>FY 1996 Site Support Program Plan</b></p>
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**FY 1997 Cost Baseline**  
(Dollars in Thousands)

Activity	Description	Total \$s
6.7.2.2.1	Life safety and property protection including fire suppression, rescue, emergency medical response, fire systems testing, hazardous materials response, and SCBA service and repair. Includes 3.0% escalation.	\$9,929.2
6.7.2.2.2	Fire system assurance and maintenance of fire systems. Reflects 3.0% escalation.	\$3,143.6
[Excludes company address (G&A and CSP/Oversight)]		<b>FY 1997 Total for (SMS/WBS No)</b>
		<b>\$13,072.8</b>

**FY 1998 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2.1	Life safety and property protection including fire suppression, rescue, emergency medical response, fire systems testing, hazmat response, and SCBA service and repair. Includes 3.0% escalation.	\$10,227.1
6.7.2.2.2	Fire system assurance including testing and maintenance of fire systems. Reflects 2.9% escalation.	\$3,237.9
[Excludes company address (G&A and CSP/Oversight)]		<b>FY 1998 Total for (SMS/WBS No)</b>
		<b>\$13,465.0</b>

2.C.1.2 Cost Baseline by Funding Source		Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2				FY 1996 Site Support Program Plan	
WBS #	Title	Dept. OH	CSP/Oversight	SLP	G & A	Direct \$	TOTAL \$s

**FY 1995 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2	Functional Overhead	\$352.8					
6.7.2.2.1	Emergency Services		\$9,130.6				
6.7.2.2.2	Fire Systems Maintenance			\$3,115.6			
<b>TOTALS</b>		<b>\$352.8</b>	<b>\$9,130.6</b>	<b>\$3,115.6</b>			<b>\$12,599.0</b>

**FY 1996 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2	Functional Overhead	\$412.0					
6.7.2.2.1	Emergency Services and Fire Systems Testing		\$9,618.0				
6.7.2.2.2	Fire Systems Maintenance			\$2,957.0			
<b>TOTALS</b>		<b>\$412.0</b>	<b>\$9,618.0</b>	<b>\$2,957.0</b>			<b>\$12,987.0</b>

2.C.1.2 Cost Baseline by Funding Source		Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2				FY 1996 Site Support Program Plan	
WBS #	Title	Dept. OH	CSP/Oversight	SLP	G & A	Direct \$	TOTAL \$s

**FY 1997 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2	Functional Overhead	\$424.4					
6.7.2.2.1	Emergency Services and Fire Systems Testing		\$9,602.7				
6.7.2.2.2	Fire Systems Maintenance			\$3,045.7			
<b>TOTALS</b>		<b>\$424.4</b>	<b>\$9,602.7</b>	<b>\$3,045.7</b>			<b>\$13,072.8</b>

**FY 1998 Cost Baseline**  
(Dollars in Thousands)

6.7.2.2	Functional Overhead	\$437.1					
6.7.2.2.1	Emergency Services and Fire Systems Testing		\$9,890.8				
6.7.2.2.2	Fire Systems Maintenance			\$3,136.9			
<b>TOTALS</b>		<b>\$437.1</b>	<b>\$9,890.8</b>	<b>\$3,136.9</b>			<b>\$13,464.8</b>

<p>2.C.2 Cost Basis</p>	<p>Westinghouse Hanford Company Hanford Fire Department Program Plan SMS/WBS No. 6.7.2.2</p>	<p>FY 1995 Site Support Program Plan</p>
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Cost Estimating Assumptions: Costs are based on requirements as they exist today and do not include funds for future changes to requirement documents.

Estimating Methodology: The estimate for the emergency services portion of the budget is based on an analysis of national code and DOE order requirements and the staffing and materials required to meet these. Customer organizations are assessed a percentage of this budget based upon the size of their budget compared to the total site budget.

The estimate for the maintenance activity costs is based upon the number and type of fire system equipment items in service and the annual time required to test and maintain them to current requirements. Costs to individual customer organizations are based upon the specific equipment installed in that customer's facilities and any special hazards related to the tasks.

# HANFORD FIRE DEPARTMENT

WHC-SP-1105, Rev. 2  
FY 1996 SSPP

WBS Number 6.7.2.2

2.C.3 FTEs

Planned Staffing (FTEs)		NOTE: Job Family Only After 1997											
JOB FAMILY	COCS No.	1996	1997	1998	1999	2000	2001	2002					
Job category													
<b>MANAGERS</b>		18	18	18	18	18	18	18					
First line	M010	17	17	17	17	17	17	17					
General/executive	M020	1	1	1	1	1	1	1					
<b>ENGINEERS</b>		9	9	9	9	9	9	9					
Plant	E100	9	9	9	9	9	9	9					
<b>ADMIN/OTHER PROFESSIONALS</b>		16	16	16	16	16	16	16					
Compliance inspectors	P050	2	2	2	2	2	2	2					
Cost Est/planner/sch	P070	3	3	3	3	3	3	3					
Physician Assis/Nurs	P130	9	9	9	9	9	9	9					
Trainers	P150	2	2	2	2	2	2	2					
<b>GEN ADM/SECRETARY/CLERK</b>		7	7	7	7	7	7	7					
Admin Assistants	G010	2	2	2	2	2	2	2					
Office Clerks (Special)	G030	1	1	1	1	1	1	1					
Secretaries	G040	4	4	4	4	4	4	4					
<b>CRAFTS</b>		16	16	16	16	16	16	16					
Electricians	C020	8	8	8	8	8	8	8					
Plumbers/Pipefitters	C080	8	8	8	8	8	8	8					
<b>LABOR &amp; GEN WORKERS</b>		81	81	81	81	81	81	81					
Firefighters	L010	81	81	81	81	81	81	81					
<b>TOTAL</b>		<b>147.0</b>	<b>147.0</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>	<b>147</b>

## Distribution Sheet

RL

W. A. Scott (3)

A5-55

WHC

L. C. Brandt

B3-53

D. E. Good (6)

S3-97

O. Johnson

S2-46

L. L. Powers

H6-30

R. E. Traister

B3-63

Document Processing &amp; Administration

L8-15

Central Files

A3-88

O.S.T.I. (2)

A3-36