PC-000448/1

PROJECT PLAN/
PROJECT MANAGEMENT PLAN
PHASES 2 AND 3

prepared for

GA HOT CELL D&D PROJECT
CONTRACT NO. DE-AC03-95SF20798
PROJECT NO. 7340

FEBRUARY 1996

GENERAL ATOMICS

GA 2175 (REV. 9/89)

PROJECT CONTROL ISSUE SUMMARY

DOC. CODE	PROJECT	DOCUMENT NO.	REV.
PPM	0000	PC-000448	1

TITLE:

Project Plan/Project Management Plan—Phases 2 and 3

CM APPROVAL/ DATE	REV	PREPARED BY	APPROVAL(S) RESOURCE/ SUPPORT	APPROVAL(S) PROJECT	REVISION DESCRIPTION/ W. O. NO.
ISSUED 2 AUG 29 1995	0	A. Welch 8/29/95	V. Nicolayeff 8/29/95	for G. C. Bramblett 8/29/95	Initial Issue. 7320.700.100
ISSUED 2 FEB 28 1996	1	A. Welch 2/27/96	V. Nicolayeff 2/27/96	G.C. Bramblett 2/27/96	Incorporated DOE Comments. 7320 7340--7350.900.300

CONTINUE ON GA FORM 2175-1

* See List of Effective Pages

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FOREWORD

This document has been prepared as required by the Statement of Work dated January 12, 1996 for the General Atomics Hot Cell Decontamination and Decommissioning Project contained in Modification A005 to Contract Number DE-AC03-95SF20798.

There are two parts in the PP/PMP. Part I is the Project Plan. Part II is the Project Management Plan. This PP/PMP addresses Phases 2 and 3 activities.

The purpose of the PP is to define the essential elements of the Project and to guide the Project execution. The PMP sets forth the plans, organization, and systems which will be used in the management and implementation of the PP. The PP/PMP will be updated as needed.

PART I
PROJECT PLAN

1. MISSION NEED AND OBJECTIVES

General Atomics (GA) Hot Cell Facility (HCF) has been used for over 30 years to perform numerous post irradiative examinations on Department of Energy (DOE) fuels, structural materials, instrumentation, and/or dosimetry. Reduced demand and continuing private industrial development around the site has resulted in the requirement to remove and dispose of DOE/NE fuel and waste; and to decontaminate and decommission (D&D) the Hot Cell Facility and environmentally remediate, if necessary, the surrounding site for release to unrestricted use.

The D&D Project is planned to be accomplished in three phases. The first phase provided surveillance, maintenance and environmental monitoring support to assure that the HCF maintains the Nuclear Regulatory Commission (NRC) and the State of California Department of Health Services (CAL-DHS) health and safety levels; addressed the removal and disposition of DOE/NE fuel and waste; provided data to define the overall scope of the D&D Project; ascertained the magnitude and extent of radiological, hazardous and asbestos contamination through characterization and process knowledge; and established the Project management/Project documentation and controls required by DOE, the NRC, and CAL-DHS for the second phase. Phase 1 tasks were performed under Contract No. DE-AC03-84SF11962. Phase 2 is the implementation of HCF D&D activities, HCF surrounding site remediation, if necessary, and HCF waste handling and disposal. Phase 3 will be to perform confirmatory studies and final facility and site NRC/CAL-DHS certification for release to unrestricted use. Phases 2 and 3 are addressed in this PP/PMP.

Figure I-1 shows the location of the Hot Cell within the GA site, and Figure I-2 is a detailed plan view of the Hot Cell Facility.

This Project supports DOE objectives for Environmental Restoration and Waste Management by providing:

- Credible decision making through sound planning
- Facility decommissioning
- Elimination of unacceptable risk
- Regulatory compliance
- Pollution prevention
- Ensure sufficient infrastructure
- Efficient use of resources
- Assurance of public and worker safety and health
- Waste minimization.
- Removal of irradiated fuel, radioactive contaminated waste, hazardous materials, and industrial waste from the Hot Cell Facility and Site.
- Public involvement through the availability of environmental assessments and the DOE ADSs.
- Public involvement in the NEPA process.

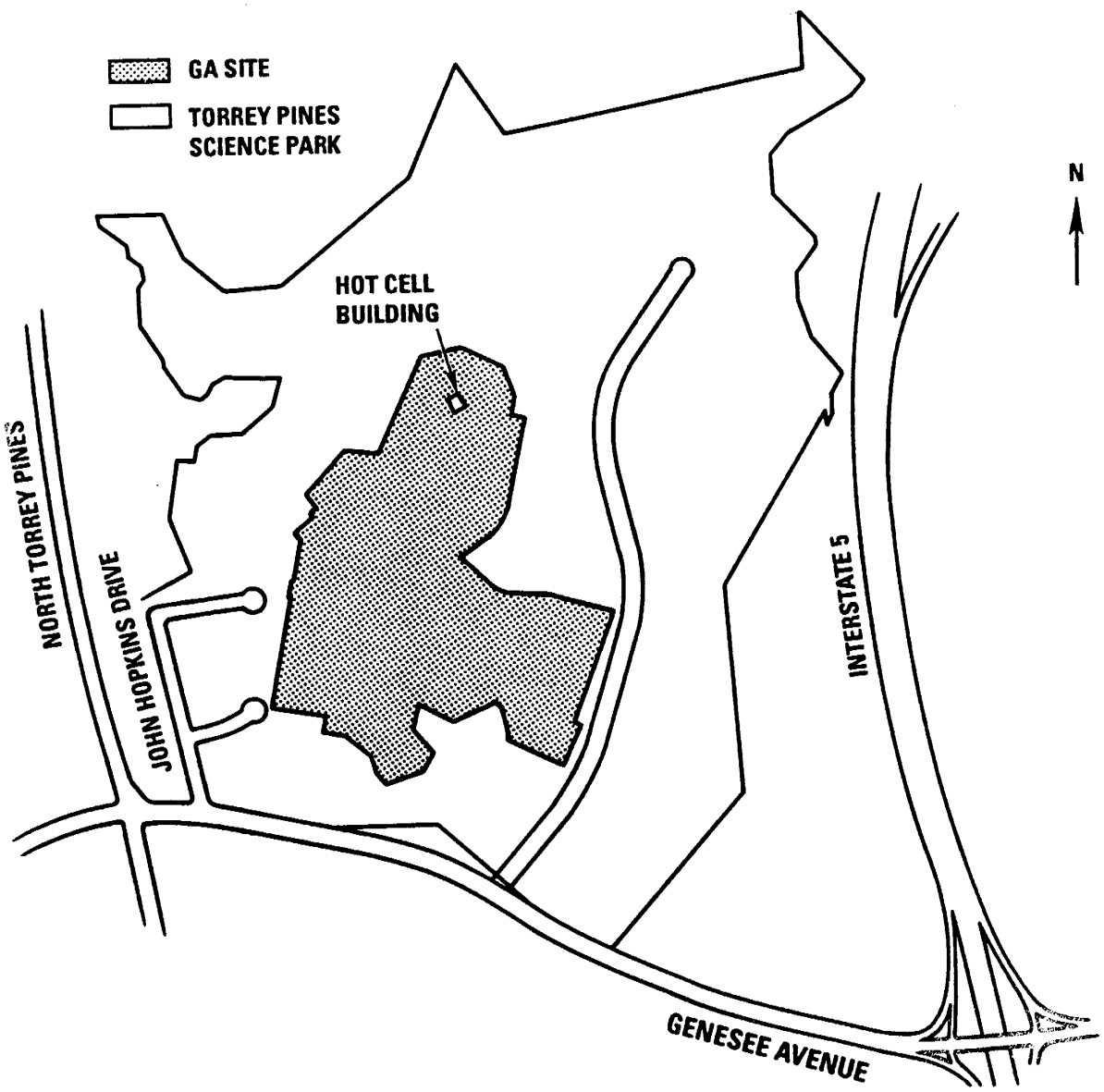

Figure I-1—Hot Cell Location Within the GA Site

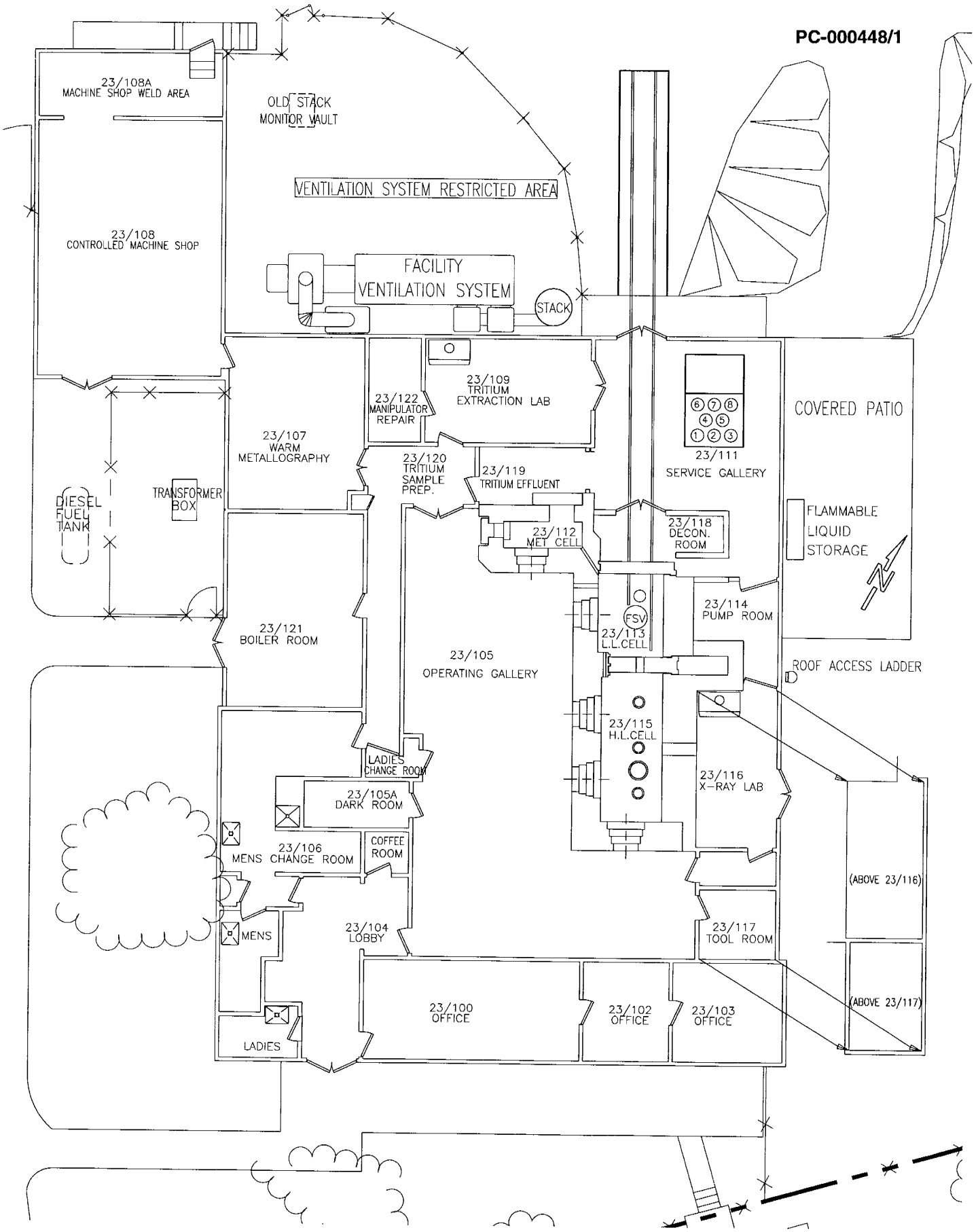

Figure I-2—GA Hot Cell Plan View

The specific measurable objectives of the GA Hot Cell Facility D&D Project that serve as a basis for evaluating the overall Project success are:

a. Technical and Economic Objectives of Phase 2 are to remove radiological and other contamination from the site to acceptable levels for site release to unrestricted use. In performing these objectives, all applicable NRC and other Federal and State requirements will be met. Waste minimization will be pursued where economically effective. Waste generated will be directed to appropriate disposal sites.

b. The Schedule Objective of Phase 2 is to complete the Technical and Economic Objectives by January 2000. Phase 3 would follow immediately after Phase 2 with the objective of obtaining site release for unrestricted use by August 13, 2000.

c. The Quality and Reliability Objective is the effective implementation of the Quality Assurance Program as defined by the Quality Assurance Program Plan (QAPP-7340) which complies with applicable standards and regulations including ASME NQA-1-1989, QA Program Requirements for Nuclear Facilities and 10 CFR 71, "Packaging and Transportation of Radioactive Materials," Subpart H, "Quality Assurance."

d. The Cost Objective is to complete the Phases 2 and 3 Technical, Economic, Schedule, and Quality and Reliability Objectives within a total estimated cost of $18,498,129 as stated in Contract DE-AC03-95SF20798, Modification A005; of this amount, $14,184,650 is DOE's share and $4,313,479 is General Atomics' share.

2. TECHNICAL PLAN

2.1 Technical Objectives

The technical objectives are to remove radiological and other contaminants from the site and obtain release of the site to unrestricted use. In performing Project activities, all applicable NRC and other Federal and State requirements will be met. The general approach is to remove all nonessential equipment to operate the Facility, then address the Facility itself. Following this, the yard area will be remediated to the extent necessary. Waste generated will be shipped to the appropriate disposal site in accordance with the waste acceptance criteria.

2.1.1 Decontamination and Decommissioning

Contaminated systems will be removed and packaged for shipment to a low-level radioactive waste disposal facility. Decontamination of the Facility will be performed concurrently with the system removal activity. There will be two parallel tasks during D&D: one will be the decontamination and dismantlement of the rooms surrounding the main building structure and the other will be the decontamination and dismantlement of the hot cells. The decontamination of the rooms will include a variety of techniques; the predominant one is planned to be abrasive cleaning of the concrete surfaces. The interior of the hot cells are planned to be cleaned using remotely operated cleaning methods followed by abrasive cleaning. Following these activities, the remaining roof, walls, and slab will be dismantled to provide access to the contaminated soil under the structure. After the Facility is dismantled, the contaminated soil will be remediated. No groundwater contamination is anticipated.

All of the above tasks will be accomplished in accordance with approved procedures.

2.1.2 Waste Disposal

In preparing waste for disposal, waste minimization will be practiced as described in the Waste Minimization Plan (PC-000421). Waste will be prepared for disposal at the Westinghouse Hanford Reservation, or if appropriate, at Envirocare of Utah. Waste previously packaged as part of Phase 1 will also be shipped for disposal. Preparation, packaging, and shipment will be done using approved procedures.

2.1.3 Surveillance and Maintenance

Surveillance and maintenance of the site and Facility will be conducted to:

1. Ensure that the Hot Cell Site and Facility is maintained in a manner that will assure safety of the general public and D&D personnel of General Atomics, its Contractors and Visitors.

2. Ensure that the Hot Cell Site and Facility is maintained and operated in compliance with the NRC License and the applicable Federal, State and local regulations.

3. Ensure that the Hot Cell Site and Facility is maintained throughout the project in a cost effective manner.

2.1.4 Site Release

Upon completion of Phase 2 activities, a Final Radiation Survey will be independently conducted with the objective of obtaining site release to unrestricted use (Phase 3). The Final Radiation Survey will demonstrate that the radiological condition of the Hot Cell site is at or below established release criteria. The State and NRC will then grant approval for release of the site to unrestricted use.

2.2 Technical Readiness

Technical readiness will be demonstrated by successful completion of Phase 1, approval of the Decommissioning Plan (PC-000423) by the DOE, NRC, and CAL-DHS, and an Operational Readiness Review. The D&D techniques to be utilized will have been proven through previous successful use.

2.3 Technical Approach

The technical approach is to decontaminate and decommission the Facility which will result in dismantlement of the structure. Following dismantlement and removal from the site, remediation of the soil will be conducted to the extent necessary. The decommissioning technical approach is more fully described in the Decommissioning Plan (PC-000423). The decommissioning will be performed in conjunction with meeting applicable, relevant, and appropriate requirements (ARAR) criteria from Federal, State and local regulations (see Figure I-3). Table I-1 is a Compliance Applicability Matrix of Federal and State regulations.

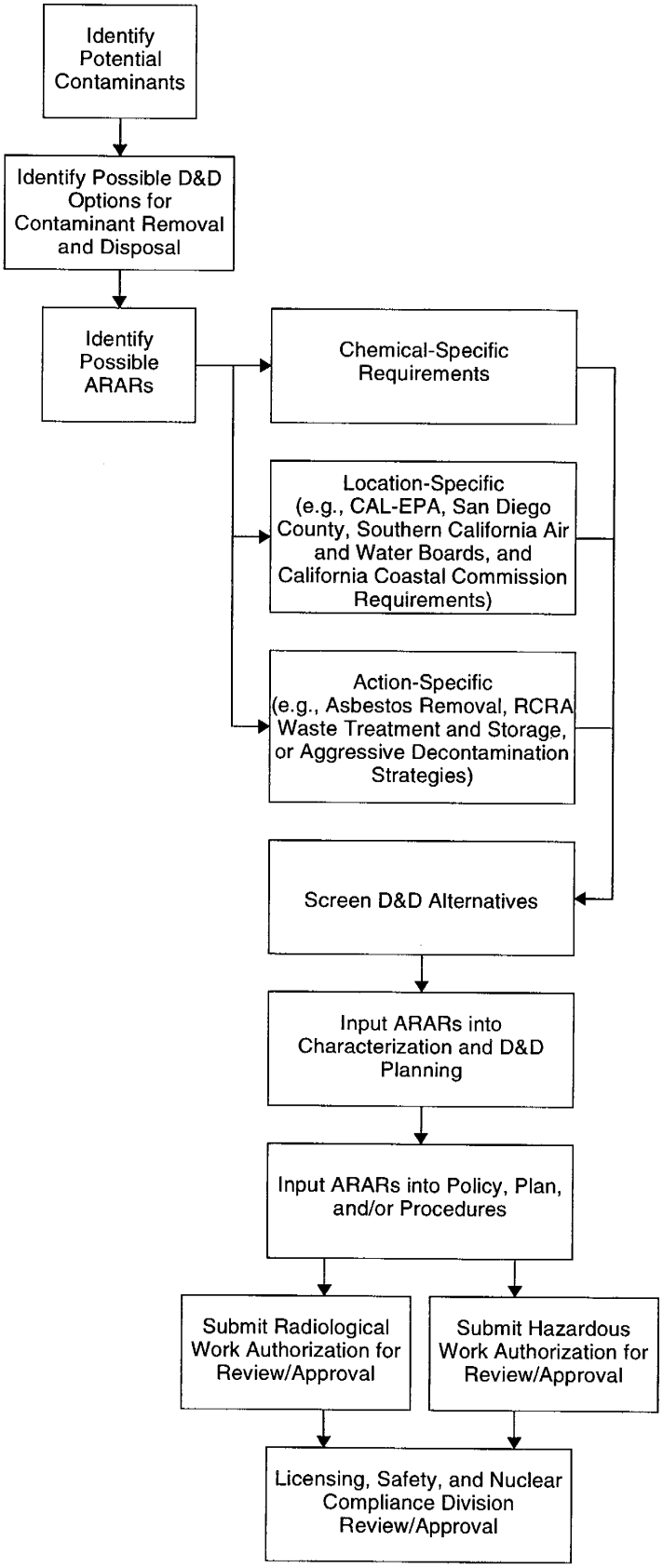

Figure I-3—ARARs Criteria Process

Table I-1—Compliance Applicability Matrix

	FEDERAL
10 CFR Parts:	ENERGY
2	Rules of practice for domestic licensing proceedings
19	Notices, instructions and reports to workers: inspections and investigations
20	Standards for protection against radiation
21	Reporting of defects and noncompliance
25	Access authorization for licensee personnel
30	Rules of general applicability to domestic licensing of byproduct material
31	General domestic licenses for byproduct material
70	Domestic licensing of special nuclear material
71	Packaging of radioactive material for transport
73	Physical protection of plants and special nuclear materials
74	Material control and accounting of special nuclear material
1021	Compliance with the National Environmental Policy Act (NEPA)
29 CFR Parts:	LABOR
1910	Occupational Safety and Health Act (OSHA)
40 CFR Parts:	PROTECTION OF THE ENVIRONMENT
50	National primary and secondary ambient air quality standards
52	Approval and promulgation of implementation plans
60	Standards of performance for new stationary sources
61	National emission standards for hazardous air pollutants
121	State certification of activities requiring a Federal license or permit
191	Environmental radiation protection standards for management and disposal of spent nuclear fuel, high-level and transuranic radioactive wastes
260	Solid Waste - Hazardous waste management system; general
261	Identification and listing of hazardous waste
262	Standards applicable to generators of hazardous waste
263	Standards applicable to transporters of hazardous waste
268	Land disposal restrictions
270	EPA administered permit programs
300	National oil and hazardous substances pollution contingency plan
302	designation, reportable quantities, and notification
355	Emergency planning and notification
761	PCB manufacturing, processing, distribution, and use prohibitions
1500-1508	Final National Environmental Policy Act (NEPA) requirements
49 CFR Parts:	TRANSPORTATION
171-179	Hazardous material transportation act regulations
	STATE OF CALIFORNIA
CCR Title 8	INDUSTRIAL RELATIONS
3.2	CAL/OSHA
CCR Title 17	HEALTH
4	Radiation
CCR Title 19	PUBLIC SAFETY
3	Hazardous Material Release Reporting, Inventory, and Response Plans
CCR Title 26	TOXICS
1	State Lands Commission
4	California Occupational Safety and Health Regs. (CAL/OSHA)
4.1	Division of Industrial Safety
5.1	Department of Motor Vehicles
6	California Highway Patrol
7	Air Resources Board
17	Department of Health Services
18	Air Resources Board
19	State Fire MARSHAL
19.1	Office of Emergency Services
21	Department of Transportation
21.5	Health and Welfare Agency
22	Department of Health Services
23	State Water Resources Control Board

2.4 Alternative Technical Approaches

Four basic decommissioning alternatives were evaluated based on NRC Regulatory Guide 1.86. They were:

- Leave in Place—Evaluated and not considered as an acceptable option due to the extensive contamination within the Facility requiring continued surveillance and maintenance and the development of other facilities in close proximity to the GA site. This alternative would not result in release to unrestricted use.
- Entombment—Evaluated and not considered as an acceptable option due to the contamination detected in the soil around the Facility requiring continued surveillance and access control. This alternative would not result in release to unrestricted use.
- Dismantlement—In this alternative, the dismantlement of the Facility would be performed, including removal of the Facility structure, and remediation of the soil around the Facility, as necessary, followed by NRC and State of California inspections and release of the site to unrestricted use. This alternative was the one selected.
- Decommissioning in Place—In this alternative, decommissioning of the Facility would be performed with the structure left in place, followed by NRC and State of California inspections and release to unrestricted use. This alternative was evaluated and was not considered as an acceptable option due to the extensive dismantlement required for access to areas that are contaminated. An example is the HEPA exhaust ducts that are buried under the walls of the hot cells. This process, when carried out in all necessary areas, would leave the building in an unsafe condition.

2.5 Project Phase Description

The Hot Cell D&D Project has three (3) phases. Phase 1 is to: 1) remove the DOE/NE irradiated fuel and pre-D&D waste from the facility; 2) assure that the Facility meets the NRC and the CAL-DHS health and safety levels and will provide data to define the overall scope of the D&D Project; 3) ascertain the magnitude and extent of contamination through characterization; 4) establish the Project management/Project documentation and controls required by DOE, the NRC, and CAL-DHS for the second and third phases; and 5) prepare and obtain approvals of the Decommissioning Plan. Phase 2 is the implementation of D&D activities, surrounding site remediation, if necessary, and waste handling and disposal. Phase 3 is confirmatory studies and final site certification to unrestricted use.

The schedule shown in Appendix B illustrates the sequence of events and milestone dates to accomplish the Phases 2 and 3 objectives. In addition, intermediate milestones will be established for each fiscal year. The milestone schedules for FY96 are shown in Appendix A.

Project events/deliverables requiring DOE (and/or NRC, CAL-DHS) approval authority and their planned dates are:

a.	Operational Readiness Review Report for Phase 2	*
b.	Draft QA Program Plan for Phases 2 and 3	1/31/96
c.	Final PP/PMP	2/28/96
d.	Final QA Program Plan	2/28/96
e.	DOE Order 5480.19 Matrix Analysis Report	2/28/96

f.	Draft Health & Safety Plan	4/30/96
g.	Final Health & Safety Plan	6/30/96
h.	Irradiated Fuel Materials Transfer ORR Report	**
i.	Irradiated Fuel Materials Transfer & Storage Procedures	**
j.	Irradiated Fuel Materials Transfer	8/13/00
k.	Draft Closure Report	6/30/00
l.	Final Closure Report	8/01/00
m.	Release Report	8/13/00
*	One month after Decommissioning Plan Approval	
**	One month before shipment to a DOE designated site	

2.6 Work Breakdown Structure (WBS)

The WBS Index is shown in Table I-2. The WBS is task oriented and presents work elements to the sixth level. This WBS conforms to the manner in which the work shall be performed and in which Project cost and schedule are controlled and reported. A WBS Dictionary is provided as Attachment D.

2.7 Project Element Sequencing

Major project elements must be completed prior to release for unrestricted use.

a. DOE/NE Fuel Disposition

b. Completion of Facility Decommissioning

c. Completion of Soil Remediation

d. Independent Final Site Survey

3. RISK ASSESSMENT

The probability for successful completion of the Project within schedule and budget is high. The basis for this assessment includes:

1. Proven technology will be utilized.
2. Site characterization has been conducted.
3. Historical records for the operation of the facility are complete.
4. The facility has been operated by GA under an NRC license throughout its history.
5. Proven planning and procedural approaches will be utilized.
6. Both the DOE and GA are committed to providing funding to this Project.
7. Phases 2 and 3 will be conducted in accordance with a DOE, CAL-DHS, and NRC approved Decommissioning Plan.
8. It is assumed that no transuranic or mixed transuranic waste will be encountered.

Risk assessment for the Project is covered in detail in the Hazards Analysis (PC-000420).

Table I-2—Work Breakdown Structure
Part I - Index

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NUMBER
General Atomics Hot Cell Project - Phase 2	12/1/95	

4 LINE NO.	5 WBS ELEMENTS INDENTURE LEVEL 1	2	3	4	5	6	7	8	TITLE	6 PARTICIPANT WBS ELEMENT CODE	7 BUDGET AND REPORTING NO.	8	9
1	X								Hot Cell D&D	1.4.8.4			
2		X							Decontamination & Decommissioning	1.4.8.4.2			
3			X						Phase 2 D&D	1.4.8.4.2.4			
4				X					Support Functions	1.4.8.4.2.4.1			
5					X				Facility Maint/Security/Surveillance	1.4.8.4.2.4.1.1	7350.100		
6						X			Maintenance	1.4.8.4.2.4.1.1.1	7350.100.100		
7						X			Security	1.4.8.4.2.4.1.1.2	7350.100.200		
8						X			Industrial Safety	1.4.8.4.2.4.1.1.3	7350.100.300		
9						X			Radiological Surveillance	1.4.8.4.2.4.1.1.4	7350.100.400		
10					X				Licensing, Safety and Nuclear Compliance	1.4.8.4.2.4.1.2	7350.200.100		
11					X				Training	1.4.8.4.2.4.1.3	7350.300.100		
12					X				Plans and Procedures	1.4.8.4.2.4.1.4	7350.400		
13						X			Radiation Safety	1.4.8.4.2.4.1.4.1	7350.400.100		
14						X			Industrial Safety	1.4.8.4.2.4.1.4.2	7350.400.200		
15						X			Facility Maintenance/Operations	1.4.8.4.2.4.1.4.3	7350.400.300		
16						X			Decontamination & Decommissioning	1.4.8.4.2.4.1.4.4	7350.400.400		
17						X			Waste Disposal	1.4.8.4.2.4.1.4.5	7350.400.500		
18					X				QA Support	1.4.8.4.2.4.1.5	7350.500.100		
19					X				Track & Trend Activities	1.4.8.4.2.4.1.6	7350.950.400		
20				X					Decommissioning	1.4.8.4.2.4.2	7350.600		
21					X				Materials and Services	1.4.8.4.2.4.2.1	7350.610.100		
22					X				Site Supervision	1.4.8.4.2.4.2.2	7350.620.100		
23					X				Engineering Support	1.4.8.4.2.4.2.3	7350.630.100		
24					X				Hot Cell Equipment	1.4.8.4.2.4.2.4	7350.640.100		
25					X				Structural Decontamination	1.4.8.4.2.4.2.5	7350.650.		
26						X			High-Level Cell	1.4.8.4.2.4.2.5.1	7350.650.501		
27						X			Low-Level Cell	1.4.8.4.2.4.2.5.2	7350.650.502		
28						X			Metallography Cell	1.4.8.4.2.4.2.5.3	7350.650.503		
29						X			Service Gallery and Decon Room	1.4.8.4.2.4.2.5.4	7350.650.504		
30						X			ESTES Rooms/Manipulator Repair Room	1.4.8.4.2.4.2.5.5	7350.650.505		
31						X			Pump Room, X-ray Lab, Tool Room, Mezzanine	1.4.8.4.2.4.2.5.6	7350.650.506		
32						X			Machine Shop	1.4.8.4.2.4.2.5.7	7350.650.507		
33						X			Warm Metallography Lab	1.4.8.4.2.4.2.5.8	7350.650.508		
34						X			Boiler Room	1.4.8.4.2.4.2.5.9	7350.650.509		
35						X			Change Room, Dark Room, Lobby and Offices	1.4.8.4.2.4.2.5.10	7350.650.510		
36						X			Operating Gallery	1.4.8.4.2.4.2.5.11	7350.650.511		
37						X			Building Exterior, Roof & Aux. Structures	1.4.8.4.2.4.2.5.12	7350.650.512		
38					X				Dismantlement	1.4.8.4.2.4.2.6	7350.660		
39						X			HLC, LLC, Metallography Cell	1.4.8.4.2.4.2.6.1	7350.660.100		
40						X			Interior Walls, Sub-ceilings	1.4.8.4.2.4.2.6.2	7350.660.200		
41						X			Roof and Exterior Walls	1.4.8.4.2.4.2.6.3	7350.660.300		
42						X			Concrete Floor	1.4.8.4.2.4.2.6.4	7350.660.400		

Table I-2—Work Breakdown Structure
Part I - Index

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NUMBER
General Atomics Hot Cell Project - Phase 2	12/1/95	

4 LINE NO.	5 WBS ELEMENTS INDENTURE LEVEL 1	2	3	4	5	6	7	8	TITLE	6 PARTICIPANT WBS ELEMENT CODE	7 BUDGET AND REPORTING NO.	8	9
43						X			Storage Pit and Wells	1.4.8.4.2.4.2.6.5	7350.660.500		
44						X			Outside Structures	1.4.8.4.2.4.2.6.6	7350.660.600		
45						X			Removal of Below ground serv. lines & equip	1.4.8.4.2.4.2.6.7	7350.660.700		
46						X			Removal of HEPA & other operating systems/services	1.4.8.4.2.4.2.6.8	7350.660.800		
47					X				Yard	1.4.8.4.2.4.2.7	7350.670		
48						X			Waste Holding Tanks	1.4.8.4.2.4.2.7.1	7350.670.100		
49						X			Asphalt	1.4.8.4.2.4.2.7.2	7350.670.200		
50						X			Depression Area	1.4.8.4.2.4.2.7.3	7350.670.300		
51						X			Soil Excavation, Removal of underground service lines	1.4.8.4.2.4.2.7.4	7350.670.400		
52				X					Waste Disposal	1.4.8.4.2.4.3	7350.700		
53					X				Clean Waste	1.4.8.4.2.4.3.1	7350.700.100		
54					X				Hazardous Waste	1.4.8.4.2.4.3.2	7350.700.2XX		
55						X			Segregation/Packaging/Documentation	1.4.8.4.2.4.3.2.1	7350.700.210		
56						X			Storage/Shipping/Disposal	1.4.8.4.2.4.3.2.2	7350.700.220		
57					X				Mixed Waste	1.4.8.4.2.4.3.3	7350.700.3XX		
58						X			Segregation/Packaging/Documentation	1.4.8.4.2.4.3.3.1	7350.700.310		
59						X			Storage/Shipping/Disposal	1.4.8.4.2.4.3.3.2	7350.700.320		
60					X				Structural Rad Waste	1.4.8.4.2.4.3.4	7350.700.4XX		
61						X			Segregation/Packaging/Documentation	1.4.8.4.2.4.3.4.1	7350.700.410		
62						X			Storage/Shipping/Disposal	1.4.8.4.2.4.3.4.2	7350.700.420		
63					X				Soil And Paving Rad & Mixed Waste	1.4.8.4.2.4.3.5	7350.700.5XX		
64						X			Processing/Documentation	1.4.8.4.2.4.3.5.1	7350.700.510		
65						X			Shipping/Disposal	1.4.8.4.2.4.3.5.2	7350.700.520		
66					X				Machinery and Equipment Rad Waste	1.4.8.4.2.4.3.6	7350.700.6XX		
67						X			Segregation/Packaging/Documentation	1.4.8.4.2.4.3.6.1	7350.700.610		
68						X			Storage/Shipping/Disposal	1.4.8.4.2.4.3.6.2	7350.700.620		
69				X					Irradiated Fuel Materials (100% DOE)	1.4.8.4.2.4.4	7340.800.		
70					X				Environmental Assessment	1.4.8.4.2.4.4.1	7340.800.100		
71					X				IFM Disposal	1.4.8.4.2.4.4.2	7340.800.200		
72			X						Phase 2 Project Management	1.4.8.4.3.4			
73				X					Project Management	1.4.8.4.3.4.1	7350.900		
74					X				Project Coordination	1.4.8.4.3.4.1.1	7350.900.100		
75					X				Operations Support	1.4.8.4.3.4.1.2	7350.900.200		
76					X				Project Plan/Project Management Plan	1.4.8.4.3.4.1.3	7350.900.300		
77					X				Administrative Procedures	1.4.8.4.3.4.1.4	7350.900.400		
78				X					DOE Requirements Support	1.4.8.4.3.4.2	7350.950		
79					X				Contract Support	1.4.8.4.3.4.2.1	7350.950.100		
80					X				PTS	1.4.8.4.3.4.2.2	7350.950.200		
81					X				EM-40 Requests	1.4.8.4.3.4.2.3	7350.950.300		

Table I-2—Work Breakdown Structure
Part I - Index

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NUMBER
General Atomics Hot Cell Project - Phase 3	12/1/95	

4 LINE NO.	5 WBS ELEMENTS INDENTURE LEVEL 1	2	3	4	5	6	7	8	TITLE	6 PARTICIPANT WBS ELEMENT CODE	7 BUDGET AND REPORTING NO.	8	9
1	X								Hot Cell D&D	1.4.8.4			
2		X							Decontamination & Decommissioning	1.4.8.4.2			
3			X						Phase 3 - Site Release	1.4.8.4.2.5			
4				X					Final Report	1.4.8.4.2.5.1			
5				X					Confirmatory Survey	1.4.8.4.2.5.2			
6				X					Site Survey/NRC Coordination	1.4.8.4.2.5.3			
7			X						Phase 3 - Project Management	1.4.8.4.3.5			
8				X					Project Management	1.4.8.4.3.5.1			
9				X					DOE Requirements Support	1.4.8.4.3.5.2			
10													
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12													
13													
14													
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4. MANAGEMENT APPROACH

Overall DOE Project responsibilities lie with the Assistant Secretary of Environmental Management (EM-1) who has further delegated authority to manage the Project to the Deputy Assistant Secretary of the Office of Environmental Restoration (EM-40) who assigned specific project management and oversight responsibilities to the DOE-HQ Program Manager, Northwestern Area Program (EM-44), Oakland Operation Division (EM-443). The management approach follows the principle of decentralization of project activities to a field office, in this case the DOE Oakland Operations Office (OAK), while providing for an appropriate level of approval oversight and reporting of project activities to DOE-HQ.

Within DOE-OAK, responsibility for management of the GA Hot Cell ER Project has been assigned to the Assistant Manager for Environmental Management and Support. Responsibility flows through the Director, Division of Environmental Restoration. The DOE-OAK Hot Cell ER Project Manager is James Davis III. DOE-OAK provides full support for the Project including Budget, Finance, Procurement, Quality Assurance, Environmental, Health and Safety, Personnel, External Affairs, Engineering, and Counsel. DOE-OAK has contracted with General Atomics to provide technical and operational management and services for the Project.

4.1 DOE Headquarters (HQ)

The Assistant Secretary to the Office of Environmental Management (EM-1) is the approving official who has overall responsibility and authority for the GA Hot Cell D&D Project. Some of the project responsibilities are delegated to the Northwest Area Program Office (EM-44) and further delegated to the Oakland Operations Division (EM-443) who will review and approve the Total Project Cost Estimate and changes thereto, the major headquarters approved milestones, the financial plan, any project scope changes above and beyond scope contractually agreed to, the D&D Work Plan and the Environmental Assessment. The Assistant Secretary to the Office of Environmental Management (EM-1) and the Deputy Assistant Secretary to the Office of Environmental Management (EM-40) have delegated these responsibilities to the Program Manager, Rod Cummings, for the GA Hot Cell Facility D&D Project. The Oakland Operations Division (EM-443) Director Anthony Kluk, through his Program Manager, acting as the HQ focal point and formal point of contact, shall perform the following:

- Review and approve the Project Plan and recommend this document for approval by the Director, Division of D&D.
- Provide overall technical and financial guidance to the Project, as necessary.
- Establish and monitor the HQ-controlled milestones and approved changes thereto.
- Obtain approval of Project schedule, cost, contingency, and technical baseline.
- Manage the independent verification contractor. Review and approve the final site certification and issue the Federal Register notice.
- Obtain approval for provision of funds through the Controller's office in the Approved Funding Program plan (AFP) issued monthly and changes thereto during the course of the Project. The AFP is the primary budget document for the current year.
- Periodically review and/or perform independent assessments of Project progress with respect to cost, schedule, and technical performance baselines, policies, HQ-controlled milestones, and provide the results of these reviews to management, as appropriate.

- Establish guidance regarding public, state, and federal interactions. Serve as focal point for contacts with the Office of Management and Budget, Congress, DOE-HQ offices, and international agencies.
- Participate in negotiations of all DOE Project agreements with state, university, local, and federal agencies to assure that programmatic goals and concerns are satisfied.
- Provide guidance with regard to release criteria and remedial action guidelines and approve site-specific guidelines, supplemental limits or exceptions, and ARAR selection.
- Review and concur with the Project Plan. Establish, review, and approve Project documents as required by Departmental Orders and other federal regulations.
- With the Project Manager's assistance, prepare HQ documentation as required for the Project. Coordinate HQ review and approval activities (e. g., major Project acquisition items, plans, reports) and expedite HQ interface activities and follow-up actions.
- Establish and implement any new DOE policy that is introduced to expedite the removal and cleanup action.

4.2 Oakland Operations Office (OAK)

The Assistant Manager for Environmental Management and Support has the responsibility and authority for the field management of the GA Hot Cell D&D Project, which includes the line management authority, interfacing with EM/HQ, responsibility and accountability for overall Project implementation and contract administration in a manner consistent with the approved Project Plan and other applicable documents and Department of Energy policies and orders.

4.2.1 Director for Environmental Restoration

The Director has the responsibility for the following:

- Select, monitor, and supervise the performance of the Project Manager and appropriate staff, and delegate to the Project Manager the authority for day-to-day implementation management and direction of the Project.
- Review and approve the Project Plan/Project Management Plan and methods to be used by the Project Manager.
- Review and approve all documents, as required, including Project environmental and safety documents prescribed by Departmental Orders or other federal regulations.
- Obtain approval of NEPA/environmental compliance documents and DOE agreements with local, state and federal agencies.

4.2.2 Project Manager

The Project Manager shall do the following:

- Serve as the DOE implementing official for the Project, responsible for executing the scope of work in accordance with the approved Project Plan and applicable HQ guidance.
- Establish and implement technical, cost, and schedule baselines. Achieve Project objectives in a cost-effective, safe, technically sound and environmentally acceptable manner, insuring the DOE policies and orders are fulfilled. Develop and obtain HQ concurrence in the Project Change-Control Board Policy and ensure implementation.
- Establish regularly scheduled Project reviews for HQ and OAK Management.

- Coordinate with the DOE-OAK Contracting Officer regarding the execution of procurement actions by the DOE-OAK Contracting Officer.
- Approve changes to the scope, schedule, and cost baseline within appropriate threshold levels.
- Provide technical management and direction to the prime ER contractor (GA) as the Contracting Officer's technical representative and evaluate unsolicited proposals relating to the Project.
- Direct GA in the development and approval of the GA Hot Cell D&D Project planning documents necessary for effective implementation of the Project.
- Through the established budgetary system, prepare and submit for HQ approval annual budget requests with supporting data, and request financial plan changes, site specific plan updates and ADS when necessary.
- Interact with the ER Contractor's Project Manager and the HQ Program Manager on Project activities, as appropriate. Maintain public/private sector interface and liaison, including interfaces with state, regional, and federal agencies on matters concerning the GA Hot Cell D&D Project. This will be done in concert with the DOE/GA Contract Amendments, in coordination with the HQ Program Manager, as appropriate, and in accordance with established HQ guidance.
- Review NEPA documents and submit to DOE-HQ and the NRC for review and approval, and propose remedial actions/response actions and submit supporting documents to ER/D&D for approval.
- Assist in the preparation and negotiations of all agreements with state, local, and federal agencies. Implement the program consistent with the signed agreements in concert with the DOE/GA Contract Amendments.
- Provide for implementation of Department Orders and policies on Project management, environmental, health, safety, engineering standards, quality assurance, security and safeguards, and other areas and ensure proper implementation by the contractor. Assure the preparation and review of all necessary safety, environmental, and otherwise required analyses and assessments. Review and approve other documents and plans to assure compliance with relevant DOE Orders and policies, as promulgated by DOE-OAK, after appropriate consultation with others (e. g., DOE-OAK staff and DOE-HQ).
- Administer, monitor, evaluate, and report progress through the development and use of appropriate Project management control systems.
- Provide for public communication and information dissemination as required in the Contract Modifications and by using the procedures to be developed in the Community Relations Plan. Coordinate and participate in Project conferences, symposiums, and workshops. Provide HQ the opportunity for informal review and concurrent, as appropriate. Support the international technology exchange by development of Project input for HQ use.
- Provide the DOE-OAK Management and the HQ Program Manager with timely information on significant Project events.
- Ensure that all items requiring HQ review and/or approval are submitted on a timely basis to permit adequate evaluations.
- Provide required reports in a timely manner to DOE-OAK Management and the HQ Program Manager.
- Submit the Project Plan to HQ Program Manager for approval and provide comment responses to all project documentation and plans reviewed by HQ.
- Provide the final certification for HQ approval and signature, certifying the radiological condition of the site following D&D and site remediation activities.

- Prepare all close out documentation for the site, assisting the DOE-OAK Manager and HQ Program Manager to bring the Project to completion.

4.3 Organization Chart

Figures I-4 and I-5 depict all participating organizations.

4.4 Industry Partner

DOE has contracted with General Atomics in a cost sharing arrangement as Prime Contractor and Site Manager of the General Atomics Hot Cell D&D Project.

The DOE-OAK Project Manager has delegated responsibilities to the General Atomics Project Manager, which include:

- DOE delegated official for the Project, responsible for executing the scope of work in accordance with the approved PP/PMP and applicable HQ guidance.
- Establish and implement technical, cost and schedule baselines. Achieve Project objectives in a cost effective, safe, technically sound and environmentally acceptable manner, insuring that DOE policies are fulfilled.
- Prepare Project reviews for HQ and DOE-OAK Management.
- Provide technical management and services as prime D&D contractor.
- Participate in the development and approval of the GA D&D Project planning documents necessary for effective implementation of the Project.
- Prepare and submit for DOE-OAK approval annual budget requests with supporting data, and request financial plan changes, when necessary.
- Interact as D&D Contractor with the DOE-OAK Program Manager on Project activities, as appropriate. Maintain public/private sector interface and liaison, including interface with state and regional federal agencies on matters concerning the GA D&D Project, coordinating with DOE-OAK Project Manager, as appropriate, and in accordance with established HQ guidance.
- Prepare NEPA documents and submit to DOE-OAK Project Manager for review and approval including coordination with ASEH for their review and approval.
- Assist DOE-OAK in the preparation and negotiations of all agreements with state, local and federal agencies. Implement the program consistent with the signed agreements.
- Provide for implementation of Department policies on Project management, environmental, health, safety, engineering standards, quality assurance, security and safeguards, and other areas and ensure proper implementation by the contractor. Assure the preparation and review of all necessary safety, environmental, and otherwise required analyses and assessment. Review and approve other documents and plans to assure compliance with relevant DOE policies, as promulgated by DOE-OAK, after appropriate consultation with others (e. g., DOE-OAK staff and DOE-HQ).

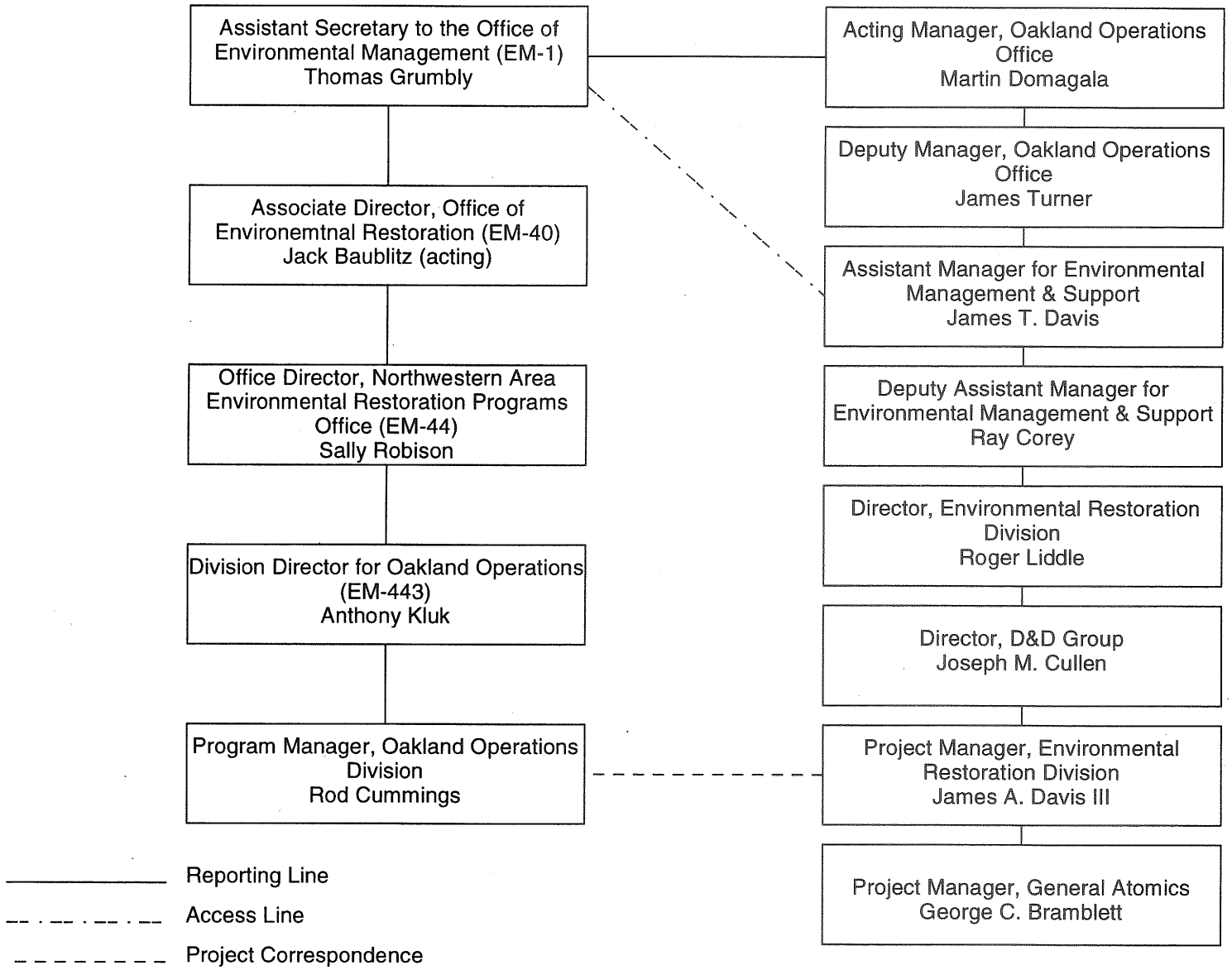


Figure I-4—DOE-HQ/Oakland Operations Office/GA D&D Project Organization

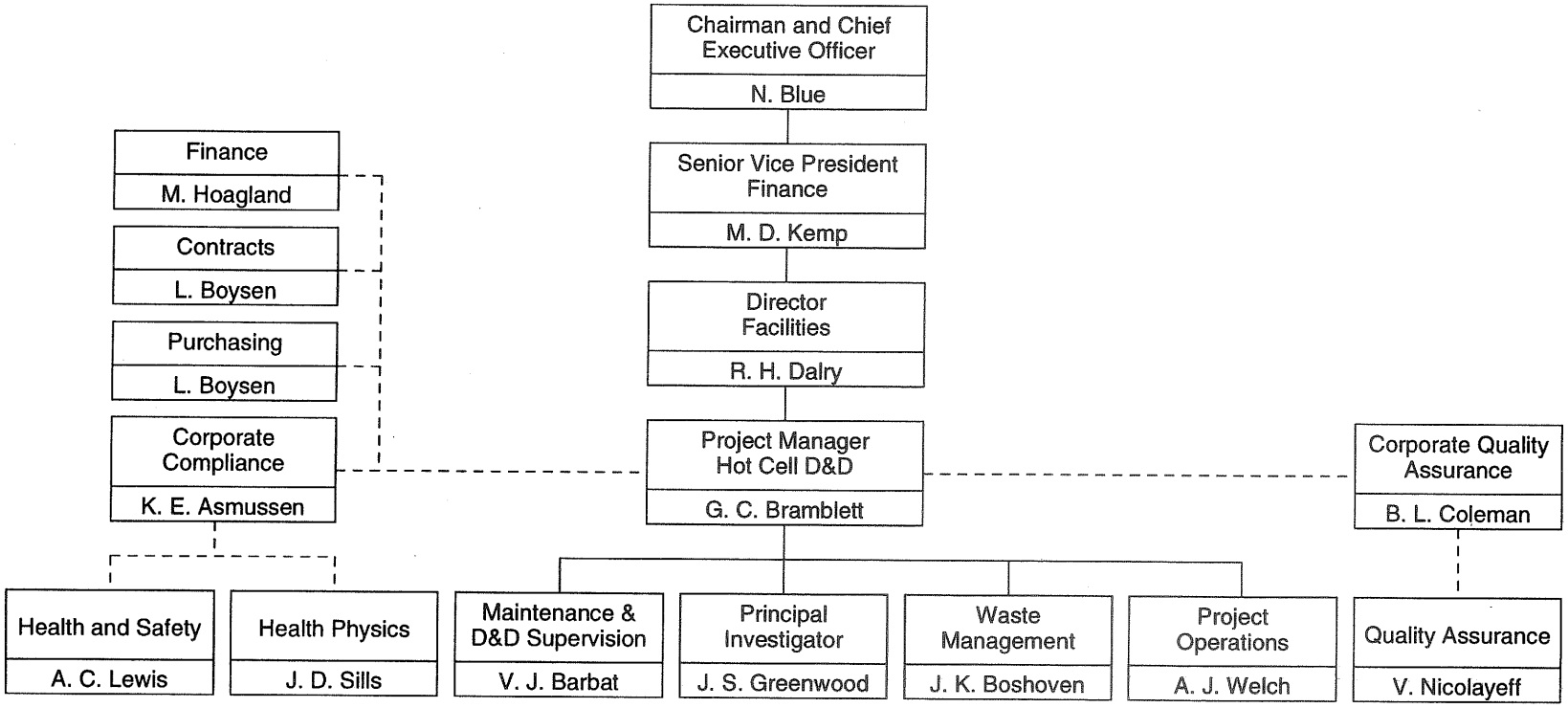


Figure I-5—GA Project Organization

- Administer, monitor, evaluate, and report progress through the development and use of appropriate Project management control systems.
- Provide for public communication and information dissemination. Coordinate and participate in Project conferences, symposiums, and workshops. Provide DOE-OAK the opportunity for informal review and concurrence, as appropriate. Support the international technology exchange by development of Project input for DOE-OAK use.
- Provide the DOE-OAK Project Manager with timely information on significant Project events.
- Ensure that all items requiring DOE-OAK review and/or approval are submitted on a timely basis to permit adequate evaluations.
- Provide required reports in a timely manner to DOE-OAK Project Manager.
- Prepare and submit the PP/PMP to the DOE-OAK Project Manager.
- Provide the final certification docket for HQ approval and signature, certifying the radiological condition of the site following D&D activities.
- Prepare all close out documentation for the site, assisting the DOE-OAK Manager to bring the Project to completion.

4.5 Project Transition

DOE-OAK and DOE-HQ have reviewed the Project Mission Objectives and have concluded this Project is a close out responsibility of DOE. It is recognized the HCF is a privately operated facility located on private property and operates under a NRC and CAL-DHS license (GA). It was determined that it would be in the best interest of the Government to assign GA as Prime Contractor and to execute Contract DE-AC03-95SF20798 for GA services. The contract contains clauses defining both the DOE's and GA's responsibilities and liabilities.

4.6 Plant Disposition

(Not Applicable)

4.7 Cleanup

The Project Scope is Facility D&D and Site Remediation, as required. There will be no "Site Cleanup" requirements at the completion of the Project.

4.8 Project Management Control/Reporting/Data Analysis

4.8.1 Controls

GA utilizes a Program/Resource Procedures Manual (P/RPM) which meets the requirements of government regulations and industry standards and has specific operating instructions for project, engineering, and support personnel. The GA P/RPM provides instructions and guidance for implementing program management, administration, planning, budgeting, scheduling, design, control, configuration management, design verification and support, research and development, procurement, roles and responsibilities of program resource personnel, and regulatory requirements.

Administrative procedures have been prepared for use in controlling the project, as follows:

HCD-1.1	Procedure Preparation
HCD-1.3	Indoctrination and Training
HCD-1.4	Communications Control
HCD-1.5	Operational Readiness Review
HCD-1.6	Technical Assessment

In addition, Project Directives are issued by the Project Manager to provide specific guidelines for technical and programmatic issues.

4.8.2 Reporting

A Project Manager's Progress Report will be prepared each week and transmitted via fax to the DOE Program Manager and Contracts Officer. This report will summarize activities for the week and planned activities.

A Monthly Report will be prepared and submitted by the 20th of the month following the reporting month. Two copies will be sent to the DOE Program Manager and one copy each to the DOE Finance Office and Contracts Officer. This report will be structured to follow the guidelines contained in the contract SOW. Appendix A shows the format used for the Cost Plan, Cost Performance Report, Labor Plan, Labor Management Report, and Milestone Schedule Status, which are included in the report.

4.8.3 Data Analysis

GA has in place a performance measurement system (PMS) for Contract Performance Measurement. The PMS is used to inform program and resource management of work progress and to highlight potential cost and schedule problems. Performance reports are generated by the GA PMS on a monthly basis. Labor hour reports are prepared each week and will be analyzed by the Operations Manager and Task Leaders against planned activities. Project costs by WBS number are reported each month by Finance. These cost reports form the basis for performance monitoring and preparation of the Cost Performance Report. Progress to scheduled milestones will be analyzed using the Microsoft Project management planning system software.

5. ACQUISITION STRATEGY

5.1 Acquisition Strategy

The DOE-OAK with DOE HQ approval has contracted with GA to complete the Project. This facility has supported DOE and private activities that have represented a facility utilization of 76% DOE and 24% private.

DOE-OAK and DOE-HQ have reviewed the Project Mission Objectives and have concluded this Project is a close out responsibility of DOE. It is recognized the HCF is a privately operated facility located on private property and operates under a NRC and CAL-DHS license (GA). It was determined that it would be in the best interest of the Government to assign GA as Prime Contractor and to execute Contract DE-AC03-95SF20798 for GA services.

5.2 Management Concepts

Acquisition strategy Project planning will incorporate technical, business, resource and miscellaneous management concepts in all documents required for Project approval and execution.

5.2.1 Management Information

Management information is limited in all areas of activity to information essential for effective control. This information will be obtained from the same databases used by the Contractor and that information will provide the data to be input into the DOE Progress Tracking System developed for proper project management, tracking oversight. A WBS has been developed as a framework for planning and assignment of responsibilities, contracting, and reporting progress.

5.2.2 Governmental Organization Utilization

DOE management and operating contractors, Government laboratories and R&D research centers will not be used in competition with private industry.

5.2.3 Affordability

Request for Proposal responses have been provided by GA to DOE describing the technical and financial magnitude of the resource commitment required to complete Phases 2 and 3. The Project Baseline will be amended as necessary.

5.2.4 Timeliness

Cost risks and technical (regulatory) risks will be minimized through coordination communications between the DOE, GA, the NRC and other regulatory agencies.

5.2.5 Competitive Concept Development

(Not Applicable)

5.2.6 Cost Estimates

Cost, schedule and technical estimates have been submitted in GA Proposal GACP 651-010.

5.2.7 Cost Participation

The contract arrangement with GA for allowable cost reimbursement is cost sharing. DOE is to reimburse GA for 76% of the shared allowable costs and 100% of the 100% DOE allowable costs. This sharing percentage is based on facility utilization funded by DOE Development Projects. All overruns on the Project will be the 100% responsibility of the Party at fault. There will be no net income generated from this Project in that the contract is cost reimbursable without fee. ADS activities will reflect DOE's commitment to complete this Project.

5.3 Project Acquisition Strategy Implementation

DOE HQ, following the principle of decentralization, has delegated major Project responsibility to the Oakland Operations Office.

DOE-OAK maintains site management control through the Terms and Conditions of the Contract, and various planning documents (i. e., PP/PMP and Status Reports).

5.4 Cost Share Agreement

The DOE and GA have agreed to share the actual cost of performance under contract as follows:

DOE	76%
GA	24%

An exception to this is Task 16, Section 5.16 of the SOW dated January 12, 1996, "Transfer of the Irradiated Fuel Materials to a DOE Location for Storage." All costs associated with this task will be a 100% DOE responsibility.

There is no treatment of future changes in Project scope of an early termination. DOE retains the right of Termination for Convenience.

5.5 Major Contract Status

Contractor:	General Atomics
Work Performed:	Prime Contractor
Award Date:	August 14, 1995
Contract Value:	$14,184,650 DOE; $4,313,479 GA; $18,498,129 Total
Contract Number:	DE-AC03-95SF20798
Contract Type:	Cost Reimbursable—No Fee

5.6 Subcontract Management

GA has submitted a Subcontracting Plan to the DOE (ref. GACP 651-010). This Subcontracting Plan has been developed implementing the provisions of Public Law 95-507, Federal Acquisition Regulation 52.219-9, the U. S. Department of Energy Acquisition Regulation 952.219-9, Executive Order 12138, and General Atomics' Policy No. CPM-215 applicable to Small Business and Small Disadvantaged Business, and will be managed accordingly.

It is the policy of GA that Small Business Concerns and Small Disadvantaged Businesses shall have the maximum practicable opportunity to participate in the performance of any contract let by the United States Government. GA agrees to carry out this policy in the awarding of Subcontracts to Small Business and Small Disadvantaged Business concerns. This policy will be carried out to the fullest extent consistent with efficient contract performance.

6. PROJECT SCHEDULE

The Phase 2 tasks will be completed in December 1999, Phase 3 is scheduled to complete in August 2000. A detailed schedule is provided in Appendix B.

7. RESOURCES PLAN

The Phases 2 and 3 Resources (Cost, Labor) Plans are shown in Appendix A. These plans show GA activities only and exclude all non-contract activity including DOE Field Office, DOE Headquarters and DOE sponsored regulatory and state coordination activities.

The Resources Plans will represent contractor estimated operating expenses of the Prime Contractor (GA). No plant or capital equipment expenditures are anticipated. The Resources Plans (Appendix A) will reflect by WBS, prior year, current year, and balance of activity for the Period of Performance.

8. CONTROLLED ITEMS/BASELINES

8.1 Controlled Baselines

The controlled baselines are performance (technical scope), schedule, and cost estimates.

Baseline (Total Project)				
Performance (Technical Scope)	1.	Facility Decommissioning		
	2.	Soil Remediation		
	3.	Final Site Survey		
	4.	Release to Unrestricted Use		
	5.	DOE Requirements Support		
	6.	Regulatory Compliance and Environmental Monitoring		
	7.	QA Support		
	8.	Health and Safety Support		
	9.	Project Management		
Schedule		Project Start Date—April 1993 (Phase 1 Start Date)		
		Scheduled Completion Date—August 13, 2000		
Cost		Total Cost Estimate *:	DOE	$23.9
			GA	5.6
			Total	$29.5

* Includes Phases 1, 2 and 3

8.2 Baseline Change Control Board (BCCB)

The following thresholds will determine the requirement for a Baseline Change Control Board (BCCB) meeting.

Thresholds	
Technical (Scope)	Changes which impact the Scope of Work
Schedule	>± 3 months to Phases 2 and 3 completion dates
Cost	>± 10% of contract value

8.3 Performance Objective Changes

Changes to performance objectives as expressed in Project Baselines (performance scope, schedule, cost estimate) will be formally documented, describing the changes in performance scope, schedule and/or cost estimate. These documented changes will be forwarded to DOE-OAK for implementation and execution through contract modifications.

9. SCHEDULED DECISION POINTS

Key DOE decision and approval points for the total Project are summarized in Table I-3.

Table I-3

DOE Decision/Approval Points

PP/PMP
Waste Disposal Site Authorization
Fuel Disposition Site Authorization
Site and Facility Characterization Initiation
Project Baselines (Phases 2 and 3)
D&D Plan Approvals
Action Description Memorandum (ADM)
Environmental Assessments (EA)
Finding of No Significant Impact (FONSI)
Authorization to Commence Phase 2 Activities under the Decommissioning Plan
Completion of Phase 2
Authorization to Commence Phase 3
Approval of Final Closure Report to release HC Site and Facility for unrestricted use

10. PROJECT CHARTER

The GA Hot Cell D&D Project Charter delineates management responsibility, authority and accountability for the Project. It establishes the operational management relationships between Headquarters and Field Project Management organizations.

10.1 DOE Managing Organization

Environmental Restoration Division, Oakland Operations Office and Office of Environmental Restoration (EM-40).

10.2 DOE Project Manager

James A. Davis III is the DOE-OAK Project Manager for the GA Hot Cell D&D Project.

10.3 DOE Project Management Office

The DOE Project Management Office is located at the Oakland Operations Office.

10.4 Support

The DOE Project Manager will receive support from:

- Environment and Safety Support, Oakland Operations Office
- Waste Management, Oakland Operations Office
- Financial Management Division, Oakland Operations Office
- Contracts Management Division, Oakland Operations Office
- Environmental Planning and Technology Division
- DOE/RL, Waste Management Division
- DOE/ORNL, Operations Office
- General Atomics (Site Prime Contractor)

10.5 Authority

The DOE Project Manager authorities include:

- DOE Order 4700.1 (Chapter II, Part A/Attachment II-3, Chapter II, Part B)
- Project Plan/Project Management Plan

10.6 Reporting Channel

See Figure I-4.

10.7 Special Instructions/Delegations

None.

10.8 Transition/Termination Plan

The GA Hot Cell D&D Project will be terminated (complete) upon NRC/CAL-DHS certification for release to unrestricted use and agreement that the terms and conditions of Contract No. DE-AC03-95SF20798 have been met.

PART II
PROJECT MANAGEMENT PLAN

1. INTRODUCTION

1.1 Background

In support of company efforts involving predominantly government funded nuclear research and development (R&D), General Atomics (GA) has continuously maintained a fully operational Hot Cell facility for over 30 years. Built in 1958 as a heavily shielded remote-handling laboratory, the facility has supported a wide variety of radiologically hazardous and/or toxic experimental operations.

The hot cells have been used to perform post-irradiation examinations on fuels, structural materials, instrumentation, and for dosimetry. Most of the Projects involved examination of irradiated fuel and graphite for High Temperature Gas-Cooled Reactors (HTGR). Some of the very earliest examinations involved Hastelloy X-clad uranium oxide-beryllium oxide fuel for the Marine Gas Cooled Reactor (MGCR), which later was called the Experimental Beryllium Oxide Reactor (EBOR). The UO_2-BeO fuel for the EBOR was made in the part of the GA Hot Cell building that is currently the machine shop.

More recently, the Hot Cell facility has been used for the examination of thermionic fuel elements (TFE) for space power application.

Usage of the Hot Cell has dropped significantly over the past years. This in conjunction with the continuing private industrial development around the site prompted the decision to decontaminate and decommission (D&D) the facility and remediate the surrounding area if necessary for release to unrestricted use.

1.2 Scope

The scope of work continues the efforts from Phase 1 leading to regulatory release of the Hot Cell Facility and surrounding site to unrestricted use. The primary intention of Phases 2 and 3 is to accomplish the tasks as described in the Decommissioning Plan (PC-000423). The work scope is itemized below.

1. Reduce the concentration of individual radionuclides which could contribute to residual radioactivity to regulatory prescribed clean-up limits and levels;
2. Reduce and/or remove from the site any hazardous constituents of concern found at levels above regulatory prescribed levels and limits;
3. Dismantle the HCF;
4. Dispose of all HCF generated radiologically contaminated construction debris;
5. Implement the commitments in the Site Treatment Plan for DOE mixed wastes at GA as applicable to the Project;
6. Ensure the site generated hazardous wastes and clean wastes are treated and disposed of in accordance with all applicable orders, laws and regulations;
7. Remove the HCF foundation and dispose of the generated material;
8. Dispose of Phase 1 low-level waste (LLW), mixed low-level waste (MLLW), and hazardous waste;

9. Provide the systems and procedures necessary, including continued surveillance and maintenance, to ensure protection of the health and safety of the workers, the environment, and the public from contamination associated with the HCF decommissioning and site remediation activities;
10. Provide the physical security and material accountability measures required for decommissioning;
11. Remediate groundwater, if necessary, to acceptable levels to be negotiated between DOE and GA;
12. Perform site final radiation and hazardous material surveys;
13. Prepare the Site Closure Report and coordinate confirmatory studies activities with the appropriate parties;
14. Obtain NRC and CAL-DHS release of the site for unrestricted use;
15. Assist DOE in completion of the Environmental Assessment for transfer of the Irradiated Fuel Materials (IFM) to a DOE location for storage;
16. Store the IFM in GA Building 30 for a period up to August 13, 2000; and
17. Transfer the IFM to a DOE designated location for storage.

1.3 Primary Participants and Contracts

The DOE-OAK, has contracted with GA (DE-AC03-95SF20798) to perform Phases 2 and 3 of the D&D Project.

Primary subcontractors to GA are:

National Surface Cleaning, Inc.—Asbestos Removal
Westinghouse Hanford Co.—Waste Disposal
Envirocare of Utah, Inc.—Waste Disposal
Ries Construction—General Contractor Services

1.4 Plan Organization

This PMP has been organized in a manner consistent with the Project goals.

Related documents are listed in Section 21.0, References.

1.5 Implementation

After review and approval by GA, approval is required by DOE-OAK.

Copies of the PMP and revisions thereto will be distributed in a controlled manner. The initial issue of the PMP and all changes will be provided to personnel identified on a distribution list approved by the Hot Cell D&D Project Manager.

Revisions to the PMP will be reviewed, approved, and controlled in the same manner as the original issue.

2. OBJECTIVES

2.1 Hot Cell D&D Objectives

The objective of this Project is to remove contamination from the Facility and surrounding site resulting from past and present DOE funded activities. The site is to be approved by the NRC and CAL-DHS for release to unrestricted use by GA.

The subject of this PMP is the implementation of Phases 2 and 3 of the Hot Cell D&D Project and will:

1. Assure that the facility meets the NRC and CAL-DHS health and safety levels.
2. Provide surveillance and maintenance to maintain the site and facility in compliance with the NRC license and applicable Federal, State and local regulations.
3. Dispose of contaminated waste, including soil, from the site.
4. Remove the irradiated fuel materials from the facility.
5. Coordinate a confirmatory survey to verify that the site can be released to unrestricted use.
6. Prepare a closure report.

2.2 Technical Objectives

1. Removal of irradiated fuel from the Hot Cell and eventual transfer off-site to a DOE designated location.
2. Removal and disposal of contaminated waste.
3. Prevent the creation of additional waste streams during D&D operations.
4. Minimize the volume of LLW through decontamination activities.

2.3 Economic Objectives

It is the objective of this Project to minimize the D&D costs as much as possible while assuring the health and safety of the Project staff and the public. The estimate at completion for Phases 2 and 3 is $18.5 million. Details are shown in the Cost Plan (see Appendix A).

2.4 Schedule Objectives

The objective is to obtain release to unrestricted use by the end of FY00. A detailed schedule for the Project is presented in Appendix B.

Major milestones for Phases 2 and 3 are:

Removal from Hot Cell of HTGR/RERTR Fuel
Operational Readiness Review
Final PP/PMP
Final Health and Safety Plan
Final QA Program Plan
Draft Closure Report
Final Closure Report

3. MANAGEMENT ORGANIZATION AND RESPONSIBILITIES

3.1 Project Overview

DOE has contracted with General Atomics in a cost sharing arrangement as Prime Contractor and Site Manager of the General Atomics Hot Cell D&D Project. The DOE organization and the DOE Project Manager's ties with the GA Project Manager are depicted in Figure II-1.

The GA Hot Cell D&D Project management philosophy is to build upon the Phase 1 accomplishments and organization and to incorporate lessons learned from prior decommissioning Projects, good management practices, and direct lines of communication. Emphasis is placed on clear, concise Project task definitions including staff responsibilities, specifications, criteria, costs, schedule, and resource requirements.

3.2 Project Organization

The Project organization chart for the work discussed in this PMP is shown in Figure II-2. This Project is organized within the GA corporate structure to assure high management visibility and priority. The organization will be supported by other GA technical and administrative personnel as required. Overall responsibility for the Project lies with the Project Manager.

The roles of the GA Project staff are described below:

- Alan Lewis is responsible for the Health and Safety (H&S) function. He reports to Dr. Keith Asmussen, Director of Licensing, Safety and Nuclear Compliance (LS&NC), and also has a direct line of communication with Mr. George Bramblett, Hot Cell D&D Project Manager. In this Project capacity, Alan receives appropriate H&S assignments directly from the Project Manager.

- Judd Sills is responsible for all Health Physics related tasks. He also reports to Dr. Keith Asmussen (LS&NC) and has a direct line of communication with the Project Manager. Judd will be a major contributor to the success of the Project.

- Virgil Barbat is responsible for maintenance of the Hot Cell site and facility and supervision of the D&D personnel at the Hot Cell. He reports directly to the Project Manager.

- John Greenwood is the Principal Investigator for the Hot Cell, providing technical support to the Project Manager.

- Jack Boshoven is responsible for waste management interface with the Nuclear Waste Processing Facility and waste disposal sites.

- Alan Welch is responsible for records management, configuration control, planning and scheduling, and supporting DOE requests on project administrative tasks. He reports directly to the Project Manager.

- Vlad Nicolayeff is responsible for Quality Assurance (QA) on the Project. He reports to Mr. Billy Coleman, Director of QA and also has a direct line of communication with the Project Manager. Vlad is responsible for assuring that the Project staff comply with GA site and project specific plans and procedures through reviews, assessments, and audits.

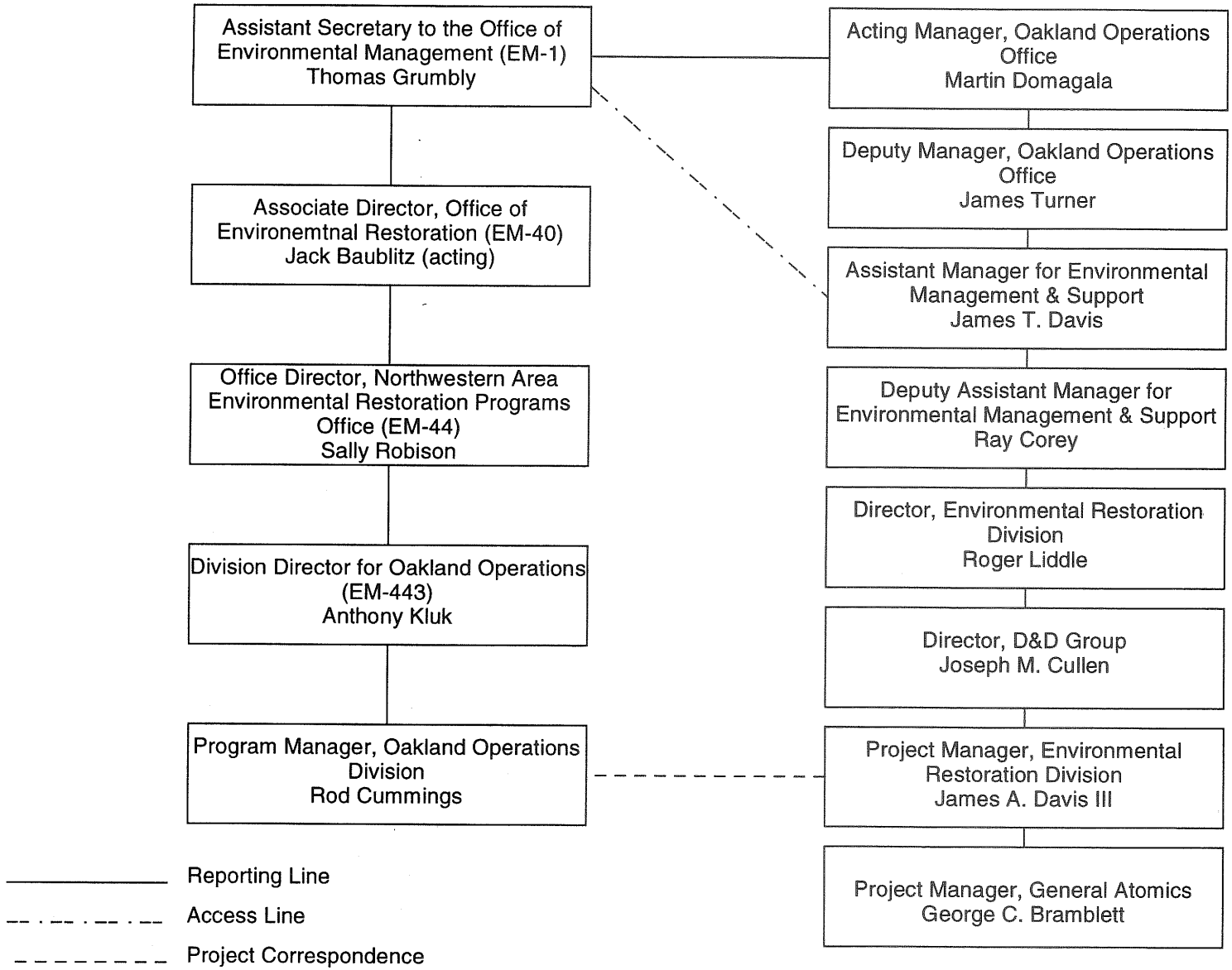


Figure II-1—DOE-HQ/Oakland Operations Office/GA D&D Project Organization

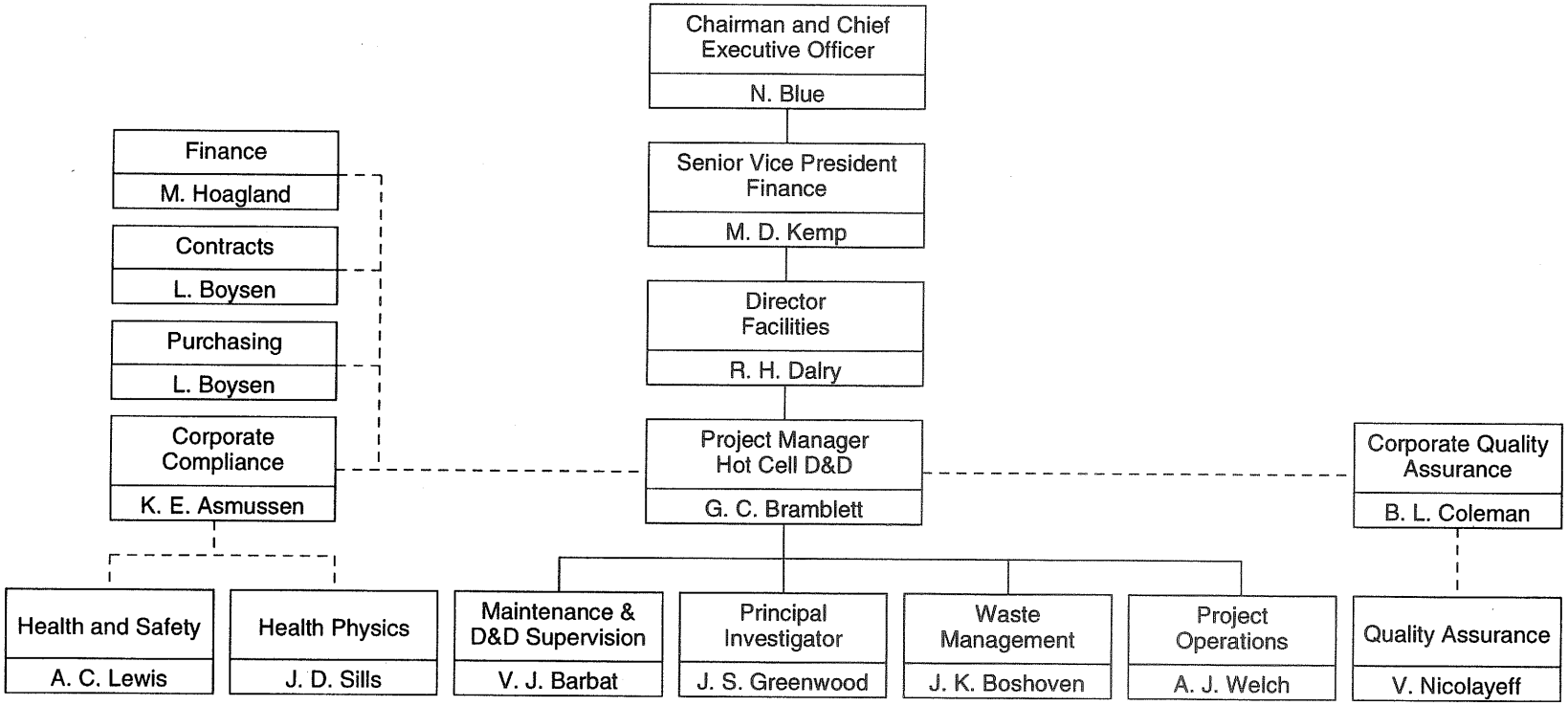


Figure II-2—Project Organization

All of the above mentioned staff interface on a daily basis as needed. On a regular basis, usually weekly, the Project Manager holds a staff meeting which may also include representatives from Finance, Contracts, Nuclear Waste Processing Facility, Licensing, Safety & Nuclear Compliance, and Human Resources for an update on progress and general discussions. Separate meetings are called on specific topics on an as needed basis for appropriate staff members and other GA support groups and/or subcontractors.

The principal support functions at GA for the Hot Cell D&D Project are part of the Licensing, Safety, and Nuclear Compliance Division which includes Health Physics, Nuclear Materials Accountability, Nuclear Safety, Statistics and Measurement Control, Criticality and Radiation Safety Committee, Emergency Services, Industrial Safety, and Industrial Hygiene. Their support requirements are listed below.

- Director, Licensing, Safety, and Nuclear Compliance (LS&NC)
  - Administering licenses and review and approval of all Work Authorizations (WAs).
  - Interpreting licensing requirements and regulations.
  - Administers NMA, NS, IS, and IH.
  - Focal point for interface with governmental regulating agencies on compliance issues.
- Health Physics (HP)
  - Assuring compliance with Title 10 Code of Federal Regulations, Parts 19 and 20.
  - Providing personnel for reviewing WAs.
  - Personnel radiation monitoring.
  - Maintaining a laboratory of monitoring equipment.
- Nuclear Materials Accountability (NMA)
  - Assuring compliance with SNM custody.
  - Maintaining and operating storage areas for interim and long term storage of radioactive materials.
  - Assuring the safe and proper transport of radioactive material.
- Nuclear Safety (NS)
  - Assuring nuclear criticality safety.
- Statistics and Measurement Control (SMC)
  - Overseeing all measurement processes directly related to the accountability of SNM.
- Emergency Services (ES)
  - Assuring adequate fire and safety protection.
  - Responding to all emergencies.
- Industrial Safety (IS)
  - Reviewing operations involving hazardous work, employee training, and safety inspections.
  - Organizing safety committees and conducting regular meetings.
- Industrial Hygiene (IH)

- Maintaining a master file of Material Safety Data Sheets (MSDS).
- Training personnel in the handling of hazardous materials.

3.3 Staffing

A labor plan which utilizes the employee levels described below is shown in Appendix A.

EMPLOYEE LEVELS		
Employee Level	**Typical Title**	**Typical Qualifications**
M	Division Director Project Manager	M.S., Ph.D., or equivalent plus 20 years of pertinent experience. Recognized senior expert in field. Responsible for directing, planning, and managing major programs.
5	Senior Technical Advisor Senior Principal Engineer Department Manager	M.S., Ph.D., or equivalent plus 20 years of pertinent experience. Internationally recognized authority in field, or responsible for planning and management.
6	Senior Staff Engineer Principal Engineer Branch Manager	M.S., Ph.D., or equivalent plus 15 to 20 years of pertinent experience. Recognized expert in field. Responsible for planning and management.
7	Staff Engineer Senior Section Leader	B.S., M.S., Ph.D., or equivalent plus 10 to 15 years of pertinent experience. Recognized specialist in field. Mature professional.
8	Senior Engineer Section Leader	B.S., M.S., Ph.D., or equivalent plus 5 years of pertinent experience. Maturing professional.
9	Engineer	B.S., M.S., or equivalent plus 2 years of pertinent experience. Emerging professional.
10	Associate Engineer	B.S. or equivalent with minimal pertinent experience. Junior professional.
Senior non-exempt (SN)	Senior Technician	Specialized schooling and training plus 10 years of pertinent experience. Works under minimal supervision of senior exempt technical/management personnel.
Non-exempt (NE)	Technician	Specialized schooling and training plus 5 years of pertinent experience. Works under general guidance and supervision of more senior technical personnel.

4. WORK PLAN

The planned steps toward a successful Project completion are:

- Removal of HTGR/RERTR fuel from the Hot Cell
- Operational Readiness Review
- Decontamination activities
- Removal, packaging, shipping of contaminated waste from the Facility
- Structural dismantlement, including wells
- Soil remediation
- Confirmatory survey
- Closure report

- Release to unrestricted use

The Project will be accomplished using the plans listed below and supporting procedures which were prepared during Phase 1.

PC-000423	Decommissioning Plan
PC-000420	Hazards Analysis
PC-000395	Hot Cell Site and Facility Characterization Plan, Appendix A—Environmental Monitoring Plan
PC-000395	Hot Cell Site and Facility Characterization Plan, Appendix D—Surveillance and Maintenance Plan
PC-000457	Safeguards and Security Measures for the Irradiated Fuel Materials Temporary Storage Facility
PC-000389	Low-Level Waste Certification Plan
PC-000424	Hot Cell Site and Facility Characterization Report
PC-000421	Waste Minimization Plan
PC-000418	Asbestos Survey Document
PC-000439	Asbestos Investigation—Building 23, Hot Cell
PC-000440	Concrete and Soil Sampling and Testing

The applicable quality assurance regulations and standards which apply to the Hot Cell D&D Project are:

- Code of Federal Regulations Title 10, Part 71, "Packaging and Transportation of Radioactive Material," Subpart H, "Quality Assurance."
- ASME NQA-1-1989, "Quality Assurance Program Requirements for Nuclear Facilities."

QAPP-7340 addresses implementation of controls to meet these regulations and standards.

The Licensing, Safety and Nuclear Compliance Division oversees compliance with federal, state, and local regulatory requirements, environmental monitoring activities, and health and safety practices.

5. WORK BREAKDOWN STRUCTURE

The WBS is a multi-tiered frame work which is used to organize and accomplish elements of work in logical relationships. Each WBS element is essentially a work package which is scheduled, budgeted and performance tracked by WBS element code number. The cost and schedule performance is reported each month on the Cost Performance Report and Labor Management Report. Each of the WBS tasks is described in the WBS Dictionary (Appendix C). The cost and labor content of each WBS element was used in developing the Cost Plan and Labor Plan shown in Appendix A. The WBS also allows for segregation of costs by that which is a DOE responsibility and that which is a GA responsibility and by ADS (ADS SF-1484-02 and -03).

This Project is defined as WBS Element 1.4.8.4, General Atomics Hot Cell Facility D&D Project in the statement of work for contract DE-AC03-95SF20798. This element is defined as the top level WBS for setting up accounts on this Project.

The WBS Index is shown as Table I-2 in the Project Plan.

6. SCHEDULE

The schedule developed for this Project is shown in Appendix B.

7. LOGIC DIAGRAM

A logic diagram is included as Appendix D.

8. PERFORMANCE CRITERIA

Project performance criteria will be based on guidelines established in Section 11. Project Management, Measurement, and Planning and Control Systems.

Specific performance criteria for each WBS element is reflected in the cost and labor plans (Appendix A) which were compiled to achieve the Project objectives through accomplishment of the WBS tasks described in the WBS dictionary (Appendix C) in conjunction with the Project schedule (Appendix B).

9. COST AND MANPOWER ESTIMATES

Detailed cost and labor plans are included in Appendix A. Estimates by fiscal years are shown below.

	95	96	97	98	99	00	Total
Estimated Cost							
DOE	334	2,915	3,600	4,000	3,000	336	**14,185**
GA	104	851	1,116	1,170	932	140	**4,313**
Total	438	3,766	4,716	5,170	3,932	476	**18,498**
Estimated Labor Hours	3,503	33,215	39,270	41,139	31,456	5,270	**153,853**

10. PROJECT FUNCTIONAL SUPPORT REQUIREMENTS

The relationships between the project office, field office, and headquarters with respect to project functional support requirements is described in Project Charter, Section 10 of Part 1.

Conflicts in performance of the contract would be resolved through the provisions of the appropriate contract clause(s).

11. PROJECT MANAGEMENT, MEASUREMENT, AND PLANNING AND CONTROL SYSTEMS

11.1 Project Management

The management approach for the Decontamination and Decommissioning of the Hot Cell will be consistent with the requirements of the Contract Statement of Work (SOW).

General Atomics uses a Program/Resource Procedures Manual (P/RPM) which meets the requirements of government regulations and industry standards and has specific operating instructions for Project, engineering, and support personnel. The GA P/RPM provides instructions and guidance for implementing program management, administration, planning, budgeting, scheduling, engineering, and configuration management.

Section 3 of this PMP discusses the Project's management organization and responsibilities. This management organization will be responsible for the execution of the Project.

In performing these functions, the Project Management Organization will:

1. Establish the Project Cost and Labor Baselines for the purpose of reporting cost and schedule performance.

2. Integrate all activities (such as organization, planning and budgeting accounting, analysis, and change control) directly related to or supporting the Project to meet the Project objectives.

3. Manage all interfaces during execution of the Project.

11.2 Planning

11.2.1 Scheduling

The tasks will be indentured to establish measurable milestones in terms of cost and schedule.

11.2.2 Budgeting

Each WBS element will have a cost and labor budget. From this basis the Cost Plan and Labor Plan will be developed.

11.3 Measurement

11.3.1 Earned Value Method, Calculation and Use

Detailed variance analysis is essential for proper Project cost and schedule control, and provides the ability to take effective corrective action in a timely manner. The basis of this process will be the WBS which will provide the breakdown of the work into manageable size elements. Each of these elements will allow the Operations Manager to assess who is working on the individual tasks and to track the cost.

Progress will be measured by the application of consistent methods for determining earned value, i.e., "Budgeted Cost of Work Performed" (BCWP). This is based on the

percent of baseline work achieved. The Operations Manager will be responsible for selecting the most applicable earned value method for a work package or task. Earned values will be tied to an appropriate milestone except for level of effort tasks such as management functions, QA support and Health and Safety support.

Cost and schedule performance measurement data will be reported to the DOE-OAK monthly through the Monthly Report and electronically into the DOE Progress Tracking System (PTS).

Two (2) basic earned value methods (Milestones and Level of Effort) will be implemented on this Project. Descriptions of these methods are provided in the following paragraphs.

11.3.1.1 Milestone Method

Discrete work will have milestones that are planned to occur during the course of the effort. Full credit of the BCWP will only be earned after completion of the milestones. Partial credit will be earned for tasks in progress but not completed.

11.3.1.2 Level of Effort Method

The Level of Effort is a non-measurable type of BCWP. Level of effort work packages "earn" BCWP equal to the planned Budgeted Cost of Work Scheduled (BCWS) with the passage of time. Budgeted cost for work scheduled for Level of Effort tasks is planned based on anticipated resource requirements to perform management, administration, or continuously repetitive type of tasks or activities.

11.3.2 Comparison of Actual Versus Planned Performance.

The generation of cost performance reports produced by the GA management control system will provide a numerical calculation of actual versus planned performance based on the earned value calculations for each individual task element, i.e., cost account. These calculations will be used in preparing the Cost Performance Report and Labor Management Report. Progress will be reported graphically as discussed in Section 12.0, Information and Reporting.

11.3.3 Variance Analysis

Cost and schedule variances occur when a deviation from the established baseline exceeds certain threshold values (in percent or dollars). A Cost Variance (CV) is the difference between the earned value of the budgeted cost of work performed (BCWP) and the actual costs reported (Actual Cost of Work Performed, [ACWP]) for the same item of work. A Schedule Variance (SV) is the difference between the BCWP and the budgeted cost of work scheduled (BCWS) to be accomplished. These variances can be expressed as follows:

$$CV = BCWP - ACWP, \qquad SV = BCWP - BCWS$$

Whenever a cost and schedule variance condition exists exceeding 10% of the budgeted project value, a Variance Analysis will be prepared and reported in the Monthly Cost Report. This report will include the dollar value and percent of the variance, as well as analysis of the problem, the impact on the scope, schedule and/or cost, and, where appropriate, a description of the corrective action to be initiated.

11.3.4 Estimate at Completion

An important function of the Cost Performance Reports is the reporting and determination of the Estimate at Completion (EAC) data. The EAC is a summary of the actual total direct and indirect costs (ACWP), expended through a specified date, plus the estimate of costs (direct and indirect) to complete the remaining authorized work (Estimate to Complete, ETC).

At the beginning of the Project, the budgeted cost is equal to the EAC. As the Project work continues, the EAC becomes the ACWP plus the ETC. The EAC must consider the performance to date and an update of the Projections of future performance. In other words, for example, if a task is 50% complete but 60% of the funds are expended, but the task leader feels that the future performance will increase, the EAC for the task will remain the baseline EAC. However, if the task leader feels that the future performance will remain the same or will decrease, the estimated total effort will be increased thereby increasing the EAC. On the other hand, if tasks can be accomplished under the budgeted effort, the estimated effort will be decreased thus reducing the EAC for the task.

The EAC will be developed on the following basis:

- A monthly review of the EAC for each reporting task will be made based on an analysis of progress and will be updated as warranted.

The EAC will be monitored to provide identification of any potential cost problems in time for corrective action to be taken by the Project Manager.

The EAC data will be included in the Monthly Cost Performance Report.

12. INFORMATION AND REPORTING

12.1 Project Documentation

Project documentation will be as required by Contract No. DE-AC03-95SF20798.

Deliverable documents, other than as shown under Section 12.2, Reporting Requirements, are:

Project Plan/Project Management Plan
Health & Safety Plan
Quality Assurance Program Plan
Closure Report
Release Report
ORR Report
Irradiated Fuel Materials Transfer ORR Report
Irradiated Fuel Materials Transfer and Storage Procedures

12.2 Reporting Requirements

12.2.1 Project Manager's Progress Report

The Project Manager will provide to the DOE a weekly Project status report. This report will summarize activities for the week and planned activities.

12.2.2 Monthly Cost Report

The monthly cost report will be structured in the following format:

12.2.2.1 Status Report

The status report is the Project Manager's narrative assessment of the work being performed under the contractual agreement. The report includes funding status, a description of activities, and variance analysis.

12.2.2.2 Cost Performance Report

A table showing the status of each WBS. The baseline for this report is the Cost Plan. The table will include the following for the month being reported, and cumulative to date:

a. Actual Cost against each cost account for the month (ACWP).

b. Planned budget expenditure to complete the work actually performed to date in the cost account (BCWP).

c. The budgeted cost expenditure to complete the work originally scheduled for completion by the end of the month (BCWS).

d. The variance between the work actually performed and the work scheduled to be performed (SV).

e. The variance between the money actually spent in performance of the work and the money budgeted to be spent in performance of the work (CV).

The table will also include an estimated cost at the completion of the work.

12.2.2.3 Labor Management Report

This is a table which reports the status of actual and Projected labor expenditures and their variances. The basis for the Labor Management Report is the Labor Plan.

12.2.2.4 Cost Plan

The Cost Plan establishes the plan for accruing total costs for the life of the contractual agreement. The time-phased baseline plan establishes the basis for the measurement of actual cost accumulation and provides basic information for updating and forecasting budget requirements. The Cost Plan itemizes accrued costs for prior fiscal years, the current fiscal year by month, and future fiscal years until completion of the contractual agreement.

12.2.2.5 Labor Plan

The Labor Plan establishes the planned utilization of labor for the term of the contract and addresses the total labor to be utilized to perform the agreed work. It itemizes labor requirements for prior fiscal years, the current fiscal year by month, and future fiscal years until contract completion.

12.2.2.6 Milestone Schedule Status Report

Provides the WBS overall task durations, the associated milestone completion dates, and the progress to schedule.

12.2.2.7 Summary Report

This is a graphic depiction of the Project's progress showing the BCWS, BCWP, and ACWP.

12.2.2.8 Progress Tracking System (PTS) Report

GA will provide input to the DOE PTS separate from the Monthly Cost Report. The basis for the input will be the Cost Plan (ref. Appendix A) and actual costs.

12.2.2.9 Trend Reports

The following Trend Reports will be provided on a semi-annual basis:

Waste Minimization
Violations and Findings
Environmental Releases
Public Radiation Doses
Regulatory Commitments
Occupational Radiation Doses
Exposure Prevention

12.2.2.10 Waste Shipping Reporting

GA will provide copies of all shipping documents to the DOE PM for review at least one business day prior to shipment of waste. GA will also provide copies of all final shipping documents to the DOE PM after shipment.

12.3 Review Meetings

Internal project reviews will be held periodically by the Project Manager. In addition, review meetings will be held between GA and the DOE-OAK as requested by the DOE-OAK.

12.4 Records Management Plan

Technical documents are subject to the requirements of the GA Program/Resource Procedures Manual (P/RPM), QAPP-7340 and project administrative procedures. After a technical document is issued or released, the original is kept in the Records Center vault and a microfilm is made and filed in an independent fire proof vault. Changes to the documents are subject to rigorous controls as discussed in the procedures.

Contractual and Project documents and correspondence are maintained in the files of the GA Contracts Departments and/or Project Manager's files. All technical data contained in these files is incorporated in technical documents and controlled as discussed above.

12.5 Security Plan

General Atomics has in place a plan which identifies those security controls and physical protection measures which are employed to meet the requirements of 10 CFR 73.60 and those of 10 CFR 73.67 for the protection of all locations having SNM of moderate and low strategic significance. This plan will be reviewed and updated, if appropriate.

12.6 Public Information on the Project

GA will provide information to interested parties such as information packets and fact sheets as appropriate.

13. SYSTEMS ENGINEERING MANAGEMENT

This section is not applicable to the Hot Cell D&D Project.

14. CONFIGURATION MANAGEMENT

GA uses a Program/Resource Procedures Manual (P/RPM) which meets the requirements of government regulations and industry standards. Included in the P/RPM is the Configuration Management Plan. The Configuration Management Plan ensures that documentation is controlled to meet contractual and legal requirements and industrial code standards. Four areas of work comprise the Configuration Management System: 1) Configuration Identification, 2) Configuration Control, 3) Configuration Status Accounting, and 4) Configuration Audits. The Configuration Management Plan is further supplemented by project specific administration procedures.

Control of Project documentation (monthly reports, QAPP, plans, technical reports) will be handled as described in QAPP-7340 and administrative procedures. In addition all GA contract related internal correspondence and all contract related outgoing external correspondence will be filed, indexed, and stored in the Engineering Data File (EDF).

15. CONTINGENCY

The GA budgeting process provides for establishing budgets at a task level for all authorized work without inclusion of a contingency. Information will be provided to the DOE-OAK to facilitate determination of a need for a contingency in their budget.

The Director of Contracts is responsible for negotiating changes with the DOE-OAK Contracting Officer. If the need arises for changes in schedule or budget, the Project Manager will provide details of the change, with justification, to the Director of Contracts. Preliminary discussions on changes may be held between the GA and DOE-OAK to help clarify and define the required changes. However, all formal negotiations for changes are the responsibility of the Contract Administrator assigned to this task.

16. QUALITY ASSURANCE

The GA QA program for this Project is described in GA Document QAPP-7340 and in the GA Quality Assurance Manual. It establishes the basic quality assurance requirements and approach governing activities performed by GA in providing services for the Hot Cell D&D effort.

The GA QA program has been reviewed and accepted by the NRC Performance and Quality Evaluation Branch, Division of Reactor Inspection and Licensee Performance, Office of Nuclear Reactor Regulation, as well as by the NRC Transportation Branch, Division of Industrial and Medical Nuclear Safety, Office of Nuclear Material Safety and Safeguards.

QAPP-7340 meets the requirements of the following quality assurance regulations and standards which apply to the Hot Cell D&D Project:

- Code of Federal Regulations Title 10, Part 71, "Packaging and Transportation of Radioactive Material," Subpart H, "Quality Assurance."
- ASME NQA-1-1989, "Quality Assurance Program Requirements for Nuclear Facilities."

17. UTILITY SERVICES

Sufficient services are currently available to meet Project needs.

18. RESPONSIBILITY MATRIX

Table II-1 presents a responsibility matrix at WBS Level 3.

Table II-1—Responsibility Matrix

Decision	DOE-HQ	DOE-OAK	Project Manager	Operations Manager	Contract Administrator*	Financial Representative
Change in Budget	A	A	R, A	C, I	A	I
Allocate Manpower	—	—	R, A	C, I	—	—
Change in Work Scope	C, A	R, A	R, A	C, I	A	—
Change in Schedule	A	A	R, A	C, I	A	I

R = Responsible
A = Approve
C = Consult
I = Inform
* Approves via contract modification.

19. ANNEXES

19.1 Advance Acquisition or Assistance Plan (AAAP)

(Not Applicable)

19.2 Test and Evaluation Plan

(Not Applicable)

19.3 Environmental, Safety and Health Protection

The following documents address Environmental, Safety, and Health Protection:

a. Site and Facility Characterization Plan—PC-000395 (Health and Safety Plan, and Environmental Monitoring Plan)

b. Hazards Analysis Document—PC-000420

c. Environmental Assessment—DOE/EA-1053

d. Health and Safety Plan, Phases 2 and 3—PC-000450

e. Decommissioning Plan—PC-000423

20. SUBMISSION AND APPROVAL

The Project Control Issue Summary form GA-2175 at the front of this document is used for obtaining approval of appropriate GA Management. After approval by GA management, this document will be submitted to DOE-OAK for approval.

21. REFERENCES

Contract No. DE-AC03-95SF20798

Site and Facility Characterization Plan—PC-000395

Quality Assurance Project Plan—QAPP-7340

Waste Certification Plan—PC-000389

Decommissioning Plan—PC-000423

Environmental Assessment (Site and Facility)—DOE/EA-1053

Hazards Analysis Document—PC-000420

Waste Minimization Plan—PC-000421

Health and Safety Plan— PC-000450

Irradiated Fuel Materials and Waste Materials Characterization Plan—PC-000382

Safeguards & Security Measures for the Irradiated Fuel Materials Temporary Storage Facility—PC-000457

Hot Cell Site and Facility Characterization Report—PC-000424

Asbestos Survey Document—PC-000418

Asbestos Investigation—Building 23, Hot Cell—PC-000439

Concrete and Soil Sampling and Testing—PC-000440

APPENDIX A—COST AND SCHEDULE REPORTING FORMS

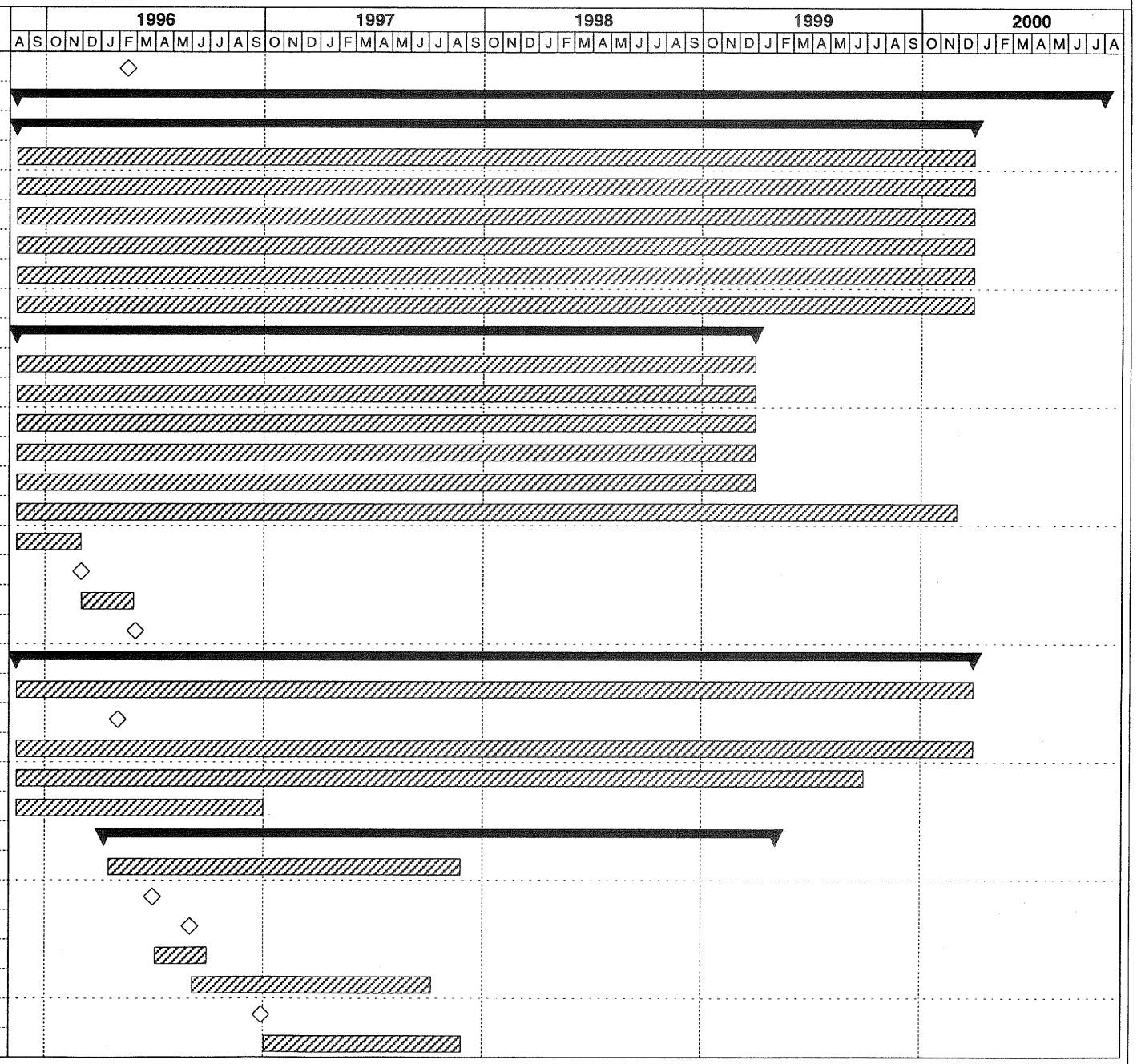
This appendix contains proprietary information.
It is not available to the public.

APPENDIX B—SCHEDULE

HOT CELL D&D - PHASE 2 & 3

FISCAL YEARS

ID	Name
1	*Decommissioning Plan Approval*
2	Phase 2 D&D
3	Facility Maint/Security/Surveillance
4	Maintenance
5	Security
6	Industrial Safety
7	Radiological Surveillance
8	Licensing, Safety & Nuclear Compliance
9	Training
10	Plans and Procedures
11	Radiation Safety
12	Industrial Safety
13	Facility Maintenance/Operations
14	Decontamination & Decommissioning
15	Waste Disposal
16	QA Support
17	Prepare QA Plan (Draft)
18	*QA Plan (Draft)*
19	Incorporate comments
20	*QA Plan (Final)*
21	Decommissioning
22	Materials and Services
23	*Asbestos removal*
24	Site Supervision
25	Engineering Support
26	Hot Cell Eqpt (prepare for disposal)
27	Stuctural Decontamination
28	Metallography Cell
29	*Removal of equip/items*
30	*Complete surface decon*
31	Machine Shop
32	High-Level Cell
33	*Complete surface decon*
34	Low-Level Cell



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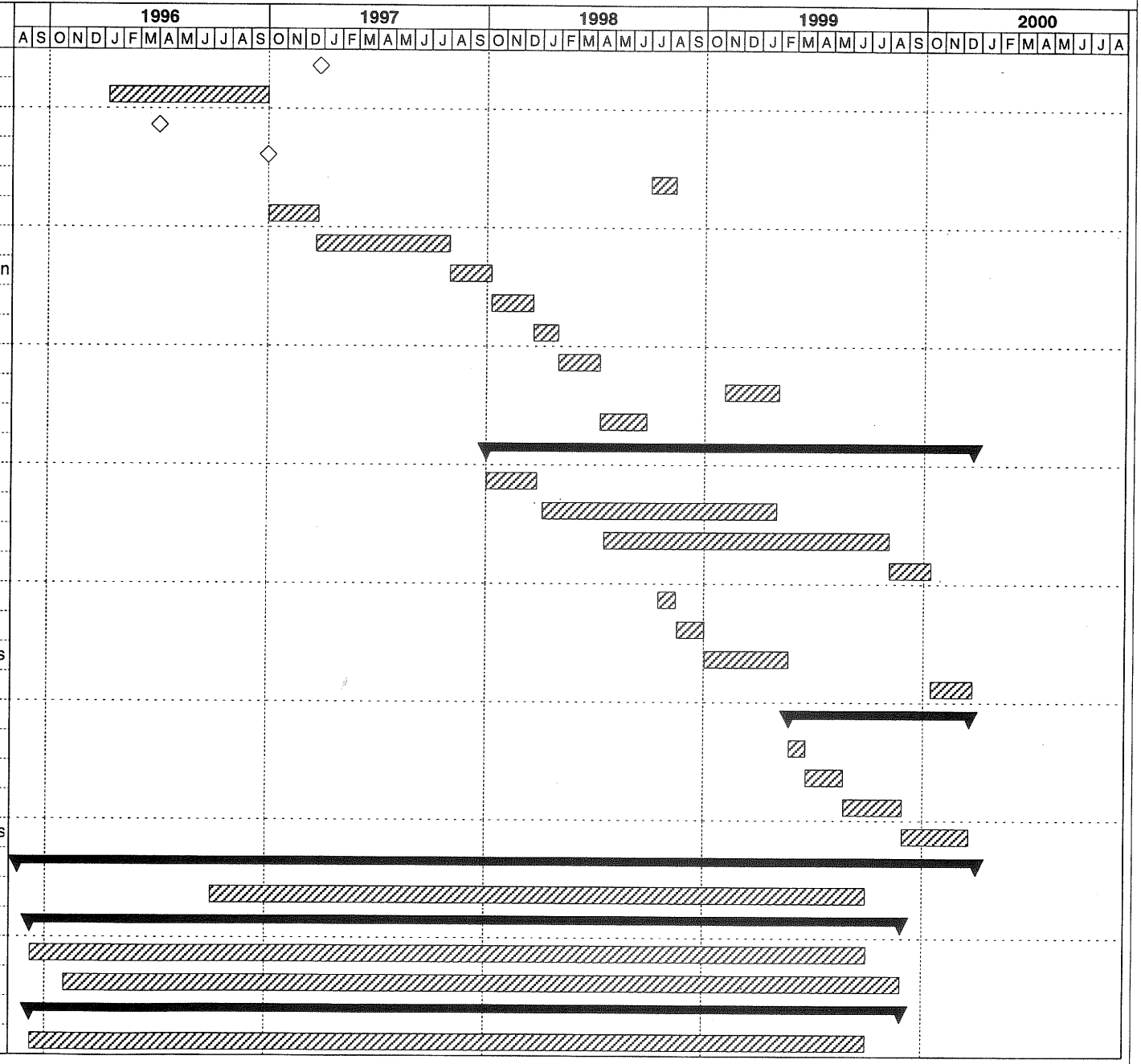
HOT CELL D&D - PHASE 2 & 3

FISCAL YEARS

ID	Name
35	*Complete surface decon*
36	Change Rm,Dark Rm,Lobby,Offices
37	*Compl Restrooms & Change Rm*
38	*Compl Dark Rm & Counting Rm*
39	Complete Lobby/offices
40	Warm Metallography Lab
41	ESTES Rms/Manipulator Repair Rm
42	Pump Rm, X-ray Lab,Tool Rm,Mezzan
43	Service Gallery and Decon Room
44	Operating Gallery
45	Building Exterior(Roof & aux structs)
46	Building Exterior(Walls)
47	Boiler Room
48	Dismantlement
49	Interior Walls, Sub-ceilings
50	Roof and Exterior Walls
51	HLC, LLC, Metallography Cell
52	Concrete Floor (Remaning slab)
53	Outside Structures/BeO Shed
54	Remove Below grnd serv lines & eqpt
55	Remove HEPA &other op sys/services
56	Storage Pit and Wells
57	Yard
58	Waste Holding Tanks
59	Asphalt
60	Depression Area
61	Soil Excav,Remove undrgnd serv lines
62	Waste Disposal
63	Clean Waste
64	Hazardous Waste
65	Segregation/Pkg/Documentation
66	Storage/Shipping/Disposal
67	Mixed Waste
68	Segregation/Pkg/Documentation



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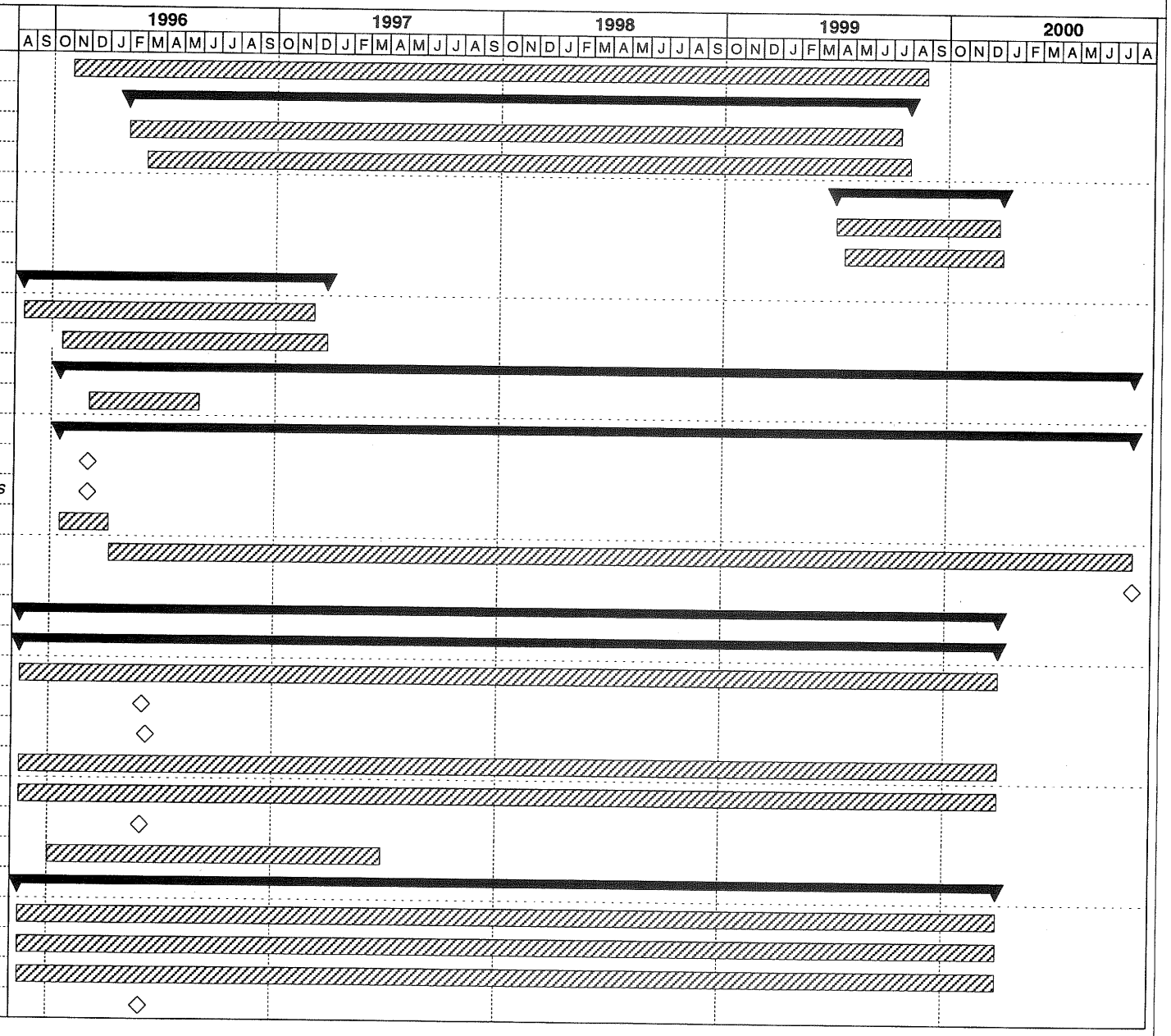
HOT CELL D&D - PHASE 2 & 3

FISCAL YEARS

ID	Name
69	Storage/Shipping/Disposal
70	Structural Rad Waste
71	Segregation/Pkg/Documentation
72	Storage/Shipping/Disposal
73	Soil and Paving Rad Waste
74	Processing/Documentation
75	Shipping/Disposal
76	Machinery & Eqpt Rad Waste
77	Segregation/Pkg/Documentation
78	Storage/Shipping/Disposal
79	Irradiated Fuel Materials(IFM)
80	Environmental Assessment
81	IFM Storage/Disposal
82	*IFM Transfer Activity ORR Rpt*
83	*IFM Storage and Transfer Procedures*
84	Move IFM to Bldg. 30
85	Store IFM in Bldg. 30
86	*Transfer IFM to designated site*
87	Phase 2 Project Management
88	Project Management
89	Project Coordination
90	*Operational Readiness Rvw (ORR)*
91	*ORR Report*
92	Operations Support
93	PP/PMP
94	*Final PP/PMP*
95	Administrative Procedures
96	DOE Requirements Support
97	Contract Support
98	PTS
99	EM-40 Requests
100	*Matrix Analysis Report*



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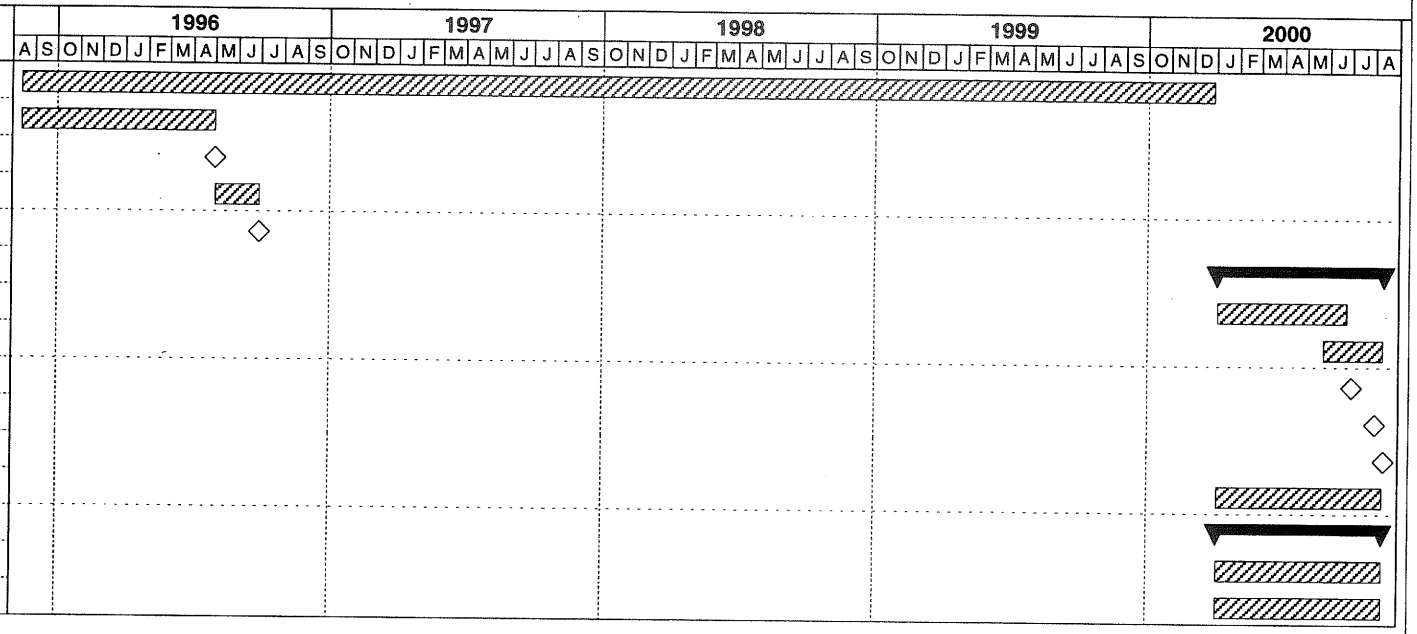
HOT CELL D&D - PHASE 2 & 3

FISCAL YEARS

ID	Name
101	Track and Trend Act. and H&S Plan
102	Prepare Health & Safety Plan
103	*H&S Plan (Draft)*
104	Incorporate comments
105	*H&S Plan (Final)*
106	Phase 3 - Site Release
107	Confirmatory Survey
108	Final Report
109	*Draft Closure Report*
110	*Final Closure Report*
111	*Release Report*
112	NRC Coordination/Support
113	Phase 3 - Project Management
114	Project Management
115	DOE Requirements Support



Summary

Scheduled Activity

Milestone

2/20/96

PC-000448/1

APPENDIX C—WBS DICTIONARY

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4	Hot Cell D&D

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
1	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2	Decontamination & Decommissioning

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
2	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.	Phase 2 D&D

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
3	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1	Support Functions

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
4	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.1	Facility Maintenance/Security/Surveillance

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
5	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350 100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.1.1	Maintenance

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
6	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350100100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

General maintenance tasks to ensure the facility is maintained in a safe condition and that all necessary services are operational as required through out the D&D (Phase 2). Includes supervision, hot cell maintenance technicians, outside services, facility related costs such as: trailer rental, utilities, materials/supplies and the cost of building a temporary loading dock.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.1.2	Security

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
7	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350100200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Covers the cost of Security tasks and equipment.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.1.3	Industrial Safety

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
8	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350100300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Implementation of the Industrial Safety program for the project. Includes the preparation and release of Hazardous Work Authorizations, safety walkdowns, and industrial safety supplies.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.1.4	Radiological Surveillance

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
9	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350100400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

The primary task is to maintain radiological safety at the Hot Cell site and facility. This includes; personnel and environmental monitoring, dose rate measurement, radiological materials detection and assay. Other tasks include; review and approval of Work Authorizations, preparation of Radiological Work Permits, calibration of instruments, purchase of dedicated equipment and supplies, and surveillance records.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.2	Licensing, Safety, and Nuclear Compliance

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
10	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350200100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Licensing, Safety, and Nuclear Compliance

b. Task Description

Administration associated with licenses.
Review and approval of Work Authorizations(WA).
Administer Nuclear Material Accountability(NMA) and Nuclear Safety(NS).
Interface with NRC and other Federal and State agencies on compliance issues.
Radiological lab services.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.3	Training

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
11	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350300100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Personnel training on specific plans and procedures of the project.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4	Plans and Procedures

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
12	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Repro
Travel

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4.1	Radiation Safety

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
13	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Prepare new and revise existing radiation safety procedures.
Preparation of Work Authorizations (WA)

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4.2	Industrial Safety

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
14	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Prepare and revise project specific Industrial Safety procedures.
Preparation of Hazardous Work Authorizations (HWA).

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4.3	Facility Maintenance/Operations

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
15	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Repro

b. Task Description

Prepare and revise facility maintenance/operations procedures.
Includes facility modifications documents.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4.4	Decontamination & Decommissioning

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
16	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Prepare, update and make revisions to D&D plans and procedures .

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.4.5	Waste Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
17	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350400500

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Prepare and revise procedures for new waste streams, with updates and revisions to existing procedures.
Preparation of WSDRs and SDARs.
Tasks associated with Envirocare approval status and coordination with Westinghouse Hanford.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.5	QA Support

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
18	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350500100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Oversees the project to assure that the project staff comply with the appropriate plans and procedures through reviews, assessments, surveillances and audits.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.1.6	Track and Trend Activities

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
19	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350950400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Data gathering and report preparation to support the DOE imposed track and trend activities for Environmental Protection, Health and Safety, Waste Minimization, and Ocurrence Reporting.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2	Decommissioning

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
20	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350600

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT GA HOT CELL D&D PROJECT - PHASE 2	2. DATE 2/20/96	3. IDENTIFICATION NO.
4. WBS ELEMENT CODE 1.4.8.4.2.4.2.1	5. WBS ELEMENT TITLE Materials and Services	
6. INDEX LINE NUMBER 21	7. REVISION NO. & AUTHORIZATION N/A	8. DATE N/A
9. APPROVED CHANGES N/A		
10. SYSTEM DESIGN DESCRIPTION N/A	11. BUDGET & REPORTING NO. 7350610100	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Materials & Services

b. Task Description

Procurement of material and services associated with the decommissioning of the Hot Cell, (not specific to any area).
Includes health physics supplies, personal protective clothing, laundry services, safety items, Asbestos removal services, Lab analysis and structural engineering services.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.2	Site Supervision

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
22	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350620100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Supervision of personnel engaged in D&D activities on the Hot Cell site.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.3	Engineering Support

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
23	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350630100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Engineering support to the project including D&D techniques, calculations and design work.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.4	Hot Cell Equipment

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
24	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350640100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal and preparation for disposal (including decontamination if cost effective) those equipment items which are not required to maintain the facility in a safe, shutdown condition.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5	Structural Decontamination

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
25	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Subcontracts
Materials & Services
Lab

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.1	High-Level Cell

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
26	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650501

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Decontamination of High-Level Cell.

Removal of equipment from cell. Decontaminate walls, floor, wells, ceiling and doors.
Removal of windows and steel liners.
Decontamination of concrete under liners.
Removal of guillotine door.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.2	Low-Level Cell

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
27	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650502

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of equipment from inside cell.
Decontaminate walls, floors, well and ceiling.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.3	Metallography Cell

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
28	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650503

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of equipment and items from cell.
Decontaminate walls, floor, and ceiling.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.4	Service Gallery and Decon Room

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
29	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650504

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Decontaminate walls, floor, ceiling, storage pit and wells.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.5	ESTES Rooms/Manipulator Repair Room

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
30	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650505

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Manipulator Repair Room 122
Removal of hot sink. Decontaminate walls, floors, ceiling.
Removal of steel liner. Removal of floor sink. Removal of hot drain lines.

ESTES Rooms 109, 116, 116A, 117, 117A
Removal of equipment. Decontaminate walls, floor, ceiling.
Removal of hot drain lines.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.6	Pump Room, X-Ray Lab, Tool Room, Mezzanine

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
31	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650506

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Decontaminate walls, floors, ceiling. Removal of non-supporting walls.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.7	Machine Shop

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
32	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650507

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Rooms 108 and 108A
Decontaminate walls, floor, and ceilings.
Removal of sub-floor
Isolate ventilation system.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.8	Warm Metallography Lab

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
33	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650508

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Remove all equipment.
Decontaminate walls, floors, ceiling.
Removal of hot drain line.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.9	Boiler Room

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
34	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650509

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Remove equipment.
Decontaminate floor, walls, ceiling.
Remove hot drain lines.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.10	Change Room, Dark Room, Lobby and Offices

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
35	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650510

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of equipment.
Decontaminate walls, floors, ceiling.
Removal of non-supporting walls.
Removal of sub-ceiling.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.11	Operating Gallery

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
36	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650511

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of equipment.
Decontaminate walls, floor, and ceiling.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.5.12	Building Exterior, Roof & Aux. Structures

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
37	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350650512

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of equipment.
Decontaminate service shed, remove concrete slab.
Decontaminate old stack monitor shack, remove concrete slab.
Remove contaminated roof sections.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6	Dismantlement

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
38	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services
Lab

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.1	HLC, LLC, Metallography Cell

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
39	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services
Lab

b. Task Description

Demolition of Met. Cell
Remove Hot Cell roof and walls.
Remove horizontal door (HLC), LLC and Met. Cell doors
Remove concrete floors.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.2	Interior Walls, Sub-ceilings

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
40	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Dismantle interior walls and sub-ceilings.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.3	Roof and Exterior Walls

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
41	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Dismantle Hot Cell roof and walls

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.4	Concrete FLoor

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
42	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Cut-up and remove all concrete flooring.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.5	Storage Pit and Wells

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
43	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660500

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services
Lab

b. Task Description

Break-up and remove below-ground storage wells and pit.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.6	Outside Structures

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
44	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660600

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Dismantle storage shed.
Removal of concrete slabs.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.7	Removal of Below ground service lines & equipment

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
45	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660700

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Removal of all below ground service lines and equipment: electrical, gas, water.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.6.8	Removal of HEPA & other operating sys/services

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
46	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350660800

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Remove HEPA ducts and system, stack monitor, ventilation system, transformers, misc. operating equipment.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.7	Yard

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
47	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350670

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.7.1	Waste Holding Tanks

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
48	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350670100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Drain and remove waste holding tanks and prepare for disposal.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.7.2	Asphalt

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
49	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350670200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Break-up asphalt for disposal.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.7.3	Depression Area

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
50	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350670300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Break-up depression area for disposal.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.2.7.4	Soil Excavation, Removal of underground service lines

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
51	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350670400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Excavate soil and prepare for disposal.
Removal of remaining underground service lines.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3	Waste Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
52	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services
Lab

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.1	Clean Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
53	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Segregation, preparation, disposal and documentation of clean waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.2	Hazardous Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
54	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	73507002XX

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.2.1	Segregation/Packaging/Documentation

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
55	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700210

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Segregate hazardous waste, package for disposal, prepare documentation.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.2.2	Storage/Shipping/Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
56	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700220

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Storage, shipping and disposal costs of hazardous waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.3	Mixed Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
57	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	73507003XX

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.3.1	Segregation/Packaging/Documentation

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
58	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700310

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Segregation, packaging and documentation for transfer of Mixed Waste to NWPF(MWPF).

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.3.2	Storage/Shipping/Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
59	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700320

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Storage at NWPF(MWPF), shipping and disposal costs of Mixed Waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.4	Structural Rad Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
60	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	73507004XX

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.4.1	Segregation/Packaging/Documentation

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
61	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700410

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Segregate, package for disposal, and document structural Rad waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.4.2	Storage/Shipping/Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
62	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700420

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Staging at the Hot Cell, shipping and disposal of Structural Rad Waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.5	Soil and Paving Rad & Mixed Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
63	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	73507005XX

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.5.1	Processing/Documentation

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
64	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700510

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Preparation of soil and paving Rad and Mixed waste for disposal, documentation preparation.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.5.2	Shipping/Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
65	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700520

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Shipping and disposal of soil and paving Rad & Mixed waste.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.6	Machinery and Equipment Rad Waste

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
66	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	73507006XX

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.6.1	Segregation/Packaging/Documentation

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
67	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700610

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Segregate Hot Cell equipment, package for disposal and prepare documentation.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.3.6.2	Storage/Shipping/Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
68	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350700620

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services

b. Task Description

Staging, shipping and disposal of machinery from Room 108 and other hot cell equipment.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT GA HOT CELL D&D PROJECT - PHASE 2	2. DATE 2/20/96	3. IDENTIFICATION NO.
4. WBS ELEMENT CODE 1.4.8.4.2.4.4	5. WBS ELEMENT TITLE Irradiated Fuel Materials	
6. INDEX LINE NUMBER 69	7. REVISION NO. & AUTHORIZATION N/A	8. DATE N/A
9. APPROVED CHANGES N/A		
10. SYSTEM DESIGN DESCRIPTION N/A	11. BUDGET & REPORTING NO. 7340800	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Used to collect all associated costs
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT GA HOT CELL D&D PROJECT - PHASE 2	2. DATE 2/20/96	3. IDENTIFICATION NO.
4. WBS ELEMENT CODE 1.4.8.4.2.4.4.1	5. WBS ELEMENT TITLE Environmental Assessment	
6. INDEX LINE NUMBER 70	7. REVISION NO. & AUTHORIZATION N/A	8. DATE N/A
9. APPROVED CHANGES N/A		
10. SYSTEM DESIGN DESCRIPTION N/A	11. BUDGET & REPORTING NO. 7340800100	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Support to DOE in preparation of a site specific EA.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.4.4.2	IFM Disposal

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
71	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7340800200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services

b. Task Description

Preparation of a site-specific Characterization Report.
Preparation and packaging of the IFM for shipment.
Temporary location at GA for up to 12 months.
Surveillance and maintenance activities.
Shipment to the DOE designated interim storage location.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4	Phase 2 Project Management

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
72	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Repro

b. Task Description

Used to collect all associated costs
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.1	Project Management

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
73	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350900

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Repro

b. Task Description

Used to collect all associated costs
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.1.1	Project Coordination

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
74	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350900100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Oversees the implementation of assignments to meet the project goals and objectives. Primary interface with the DOE Program Manager.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.1.2	Operations Support

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
75	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350900200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Assignment of budgets.
Tracking performance to cost and schedule.
Preparation of the monthly report.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.1.3	Project Plan/Project Management Plan

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
76	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350900300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Prepare and update as required the PP/PMP.
Revisions to the Project Baseline.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.1.4	Administrative Procedures

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
77	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350900400

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Preparation and revisions of administrative procedures and project directives.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.2	DOE Requirements Support

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
78	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350950

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Used to collect all associated costs
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.2.1	Contract Issues

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
79	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350950100

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Activities associated with responding to DOE requests related to work scope changes, changes in funding, schedule changes.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.2.2	Progress Tracking System (PTS)

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
80	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350950200

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Preparation of input to the PTS.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 2	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.4.2.3	EM-40 Requests

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
81	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	7350950300

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Support to the DOE in the preparation of ADS submittals, Waste Data Information submittals, Current Year Work Plans, and other similar requests for support from the DOE including DOE reviews and support for non-contract related visits.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4	Hot Cell D&D

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
1	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2	Decontamination & Decommissioning

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
2	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.5	Phase 3 - Site Release

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
3	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel
Materials & Services
Licensing, Safety, and Nuclear Compliance
Lab
Repro

b. Task Description

Used to collect all associated costs.
This is a summary level element, no work will be charged directly to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.5.1	Final Report

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
4	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Repro

b. Task Description

Preparation of draft and final closure report.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.5.2	Confirmatory Survey

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
5	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Materials and Services

b. Task Description

Independent survey by ORISE.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.2.5.3	Site Survey/NRC Coordination

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
6	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Materials & Services
Travel
Licensing, Safety, and Nuclear Compliance

b. Task Description

Coordination with the NRC on closure activities and associated costs.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.5	Phase 3 - Project Management

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
7	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Used to collect all associated costs
This is a summary level element, no work will be charged to it.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.5.1	Project Management

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
8	N/A	N/A

9. APPROVED CHANGES

N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related
Travel

b. Task Description

Oversees the implementation of assignments to meet the project goals and objectives. Primary interface with the DOE Program Manager.

WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT	2. DATE	3. IDENTIFICATION NO.
GA HOT CELL D&D PROJECT - PHASE 3	2/20/96	

4. WBS ELEMENT CODE	5. WBS ELEMENT TITLE
1.4.8.4.3.5.2	DOE Requirements Support

6. INDEX LINE NUMBER	7. REVISION NO. & AUTHORIZATION	8. DATE
9	N/A	N/A

9. APPROVED CHANGES
N/A

10. SYSTEM DESIGN DESCRIPTION	11. BUDGET & REPORTING NO.
N/A	

12. ELEMENT TASK DESCRIPTION

a. Cost Content

Labor Related

b. Task Description

Activities to support specific DOE requests.

APPENDIX D— LOGIC DIAGRAM

This appendix is not available in electronic format.
Please email lm.records@gjo.doe.gov to request this appendix.