

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Oakland**

Site Summary Level: **General Atomics**

Project **OK-012 / Hot Cell Facility D&D at General Atomics**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0271**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The objective of the GA Hot Cell Facility D&D Project is the removal of radiological and hazardous contamination from the Hot Cell Facility site leading to release of the site to unrestricted use. The Hot Cell Facility D&D Project includes the Hot Cell Facility, which refers to Building 23, the outdoor service yard located on General Atomics' main site in San Diego, CA, and the immediately adjacent area beyond the yard. The interior of Building 23 has approximately 7,400 ft² (690 m³) of floor space. Building 23 is surrounded by a 46,740 ft² (4,340 m²) fenced service yard. The General Atomics Hot Cell Facility and yard are situated on Lots 31 and 34, of Torrey Pines Science Center Unit No. 2, in the City and County of San Diego, State of California.

Technical Approach: The objective of the Hot Cell D&D Project is to obtain regulatory release of the site to unrestricted use. Of the four basic decommissioning alternatives per NRC Regulatory Guide 1.86, the "Dismantlement" alternative was the one selected. Dismantlement of the Facility includes removal of the Facility structure, and remediation of the soil under/around the Facility, as necessary, followed by the Nuclear Regulatory Commission and State of California inspections and release of the site to unrestricted use.

To achieve the above objective, the following D&D strategy was developed. Prior to the start of D&D, selected materials and equipment will be removed from the Facility salvaged and/or packaged for disposal (activities completed). External electrical lines will be supplied to the systems essential for Facility operation as necessary to avoid interruption of service and hazards inside the Facility (activities completed). These systems included the HEPA blowers, the air compressors, and the outlets for portable lighting and electrical equipment. This preparation phase will be followed by decontamination and dismantlement activities, in progress. Contaminated systems will be removed, packaged, and shipped to a low-level radioactive waste disposal facility (activities completed). Decontamination of the Facility will be performed concurrently with the system removal activity. There will be two parallel tasks during dismantlement: one will be the decontamination and dismantlement of the rooms surrounding the main building structure (activities completed) and the other will be the decontamination of the hot cells (in progress). The decontamination of the rooms included a variety of techniques; the predominant one was abrasive cleaning of the concrete surfaces. The interior of the hot cells will be cleaned using remotely operated cleaning methods followed by abrasive cleaning.

After the hot cells are decontaminated, dismantlement of the Metallography Cell will start as the final decontamination of the remaining rooms in the Facility is completed. The roof will then be removed to allow dismantlement of the remaining hot cells. This will be followed with the dismantlement of the remaining walls and slab.

The radioactively contaminated debris will result in the generation of LLW and MLLW. No TRU, Mixed Transuranic, nor HLW will be generated from the D&D activities. The radioactively contaminated debris will be packaged and shipped to a low-level radioactive waste disposal facility with due regard for waste minimization where practical (Oakland Site Technology Need No. 14). MLLW will be similarly addressed. Hazardous materials will be disposed of at a licensed hazardous waste depository. The remaining noncontaminated debris will be shipped to a local landfill.

After the Facility is dismantled, the affected soil surrounding the Facility will be remediated. Contaminated soil will either be shipped to an off-site or temporary processing facility or shipped directly to a low-level radioactive waste disposal facility. Following removal of all contamination, a

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comprehensive final radiation survey will be independently conducted, documented and submitted to the regulators with the objective of obtaining site release to unrestricted use.

Project Status in FY 2006:

None. General Atomics Hot Cell Facility D&D Project is included in the Small Site Initiative Program. With Small Site Initiative funding, Project completion is FY2000.

Post-2006 Project Scope:

None

Project End State

The Facility, with Small Site Initiative funding, will meet the EM site end state requirements by FY2000. It is the objective to obtain regulatory release of the site to unrestricted release by 2000 relieving/eliminating DOE's obligation. If post-remediation monitoring is required, such activity will be the responsibility of General Atomics.

Cost Baseline Comments:

The GA costs are negotiated costs based on contract information dated January 1996. The technical scope of the negotiated contract was based on validated baseline information.

The Hot Cell Facility D&D contract is a cost reimbursable, cost sharing, no fee contract without performance based cost incentives. The contract was definitized January 1996. The negotiated cost sharing ratio was 76% DOE and 24% GA. The costs presented in this document represent the DOE's portion (76%) only.

Safety & Health Hazards:

The hazards associated with decommissioning the Hot Cell Facility are similar to those in the construction industry. Decontamination of the building exposed the workers to many hazards, e.g., electric power tools, industrial vehicles, and heavy lifting. Operations lead to encounters with energy sources such as electrical lines and natural gas lines that required the lines to be shutdown and isolated prior to removal. In addition, removal of the contaminated components/systems under the building slab required heavy lifting equipment. Before any work was performed, all the decommissioning and decontamination tasks were evaluated for hazards. If hazards sources such as motion sources (machinery, vehicles, fork lifts, trucks, mass in motion, sharp edges), gravity-mass sources (falling, falling objects, lifting, earthquakes, tripping, slipping), pressure sources (chemical reactions, noise, high pressure liquids, confined gases, extreme wind), exposure to heat/cold from (electrical, natural gas, friction, chemical reactions), electrical sources (high voltage and current sources, transformers, static electricity), and release of hazardous chemicals (corrosive materials, flammable materials, toxic materials, reactive materials, carcinogenic materials, oxygen deficiency) were identified, a General Atomics hazardous Work Authorization (HWA) was written and approved. The HWA addressed the necessary precautions and defined the safeguards required to minimize the effects of the hazard. Before work on that task commenced, the workers was trained to the specific HWA.

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Based on Hot Cell Facility radiological surveillance records, past process knowledge, and site and facility characterization studies, it was known that existing levels of radioactive contamination of equipment and structural materials within the Hot Cell Facility environment varied over a wide range. It follows that the radioactive waste and materials removed from the site in the course of Hot Cell Facility decommissioning was reflected of this inherent variability in radioactivity levels. It can be stated that the relative radionuclide concentrations that were present as radioactive contamination in the Hot Cell Facility environment were consistent with activity inventory normally associated with reactor-irradiated, neutron-activated materials, which have been allowed to decay for greater than five years, i.e., mixed activation product and mixed fission product isotopes with half-lives greater than five years. Principal contaminants found in the Hot Cell Facility were ¹³⁷Cs, ⁶⁰Co, ⁹⁰Sr, ¹³⁴Cs, ⁹⁴Nb, ¹⁵⁴Eu, ²⁰⁸Tl, ¹²⁵Sb, ¹⁵⁵Eu, and some transuranics in order of relative concentrations (highest to lowest).

The following categories of radioactive sources that were present in the Hot Cell Facility were examined to estimate or characterize the inventories:

1. Special sealed sources stored in the Hot Cell Facility.
2. Irradiated fuel stored on site, including HTGR fuel and RERTR fuel.
3. Waste containing broken fuel particles or other radioactive substances.
4. Contamination on equipment, piping, sinks, drains, and other parts that will be removed.
5. Contamination on the building structure, floor, walls, ceiling, and roof that will be removed as waste generated during surface decontamination.

Radiation Work Permits (RWPs) were used at the Hot Cell Facility as the primary means for defining specific HP requirements for work performed within a radiological work area. The RWP provided a detailed description of requirements for radiological work performed in the restricted areas of the Hot Cell Facility. Most importantly, the RWP represented the cooperative ALARA efforts of both the General Atomics HP group and the various work groups to plan for radiological work (1) so that workers were adequately protected from radiological hazards, (2) to ensure that unusual occurrence or contingencies were considered before beginning a task so that prevention and response were planned, (3) to ensure that effective pre-job planning was employed to keep exposures ALARA, (4) to promote good communication between workers and their HP coverage, (5) to make certain that all involved parties in the work knew what to expect during the task and who would be responsible for various activities, and (6) to ensure that HP personnel covering the work were aware of when their management would consider the task's radiological conditions to be beyond what was expected.

A list of the specific hazardous (chemical) materials which were present in the Hot Cell Facility is presented in Document No. PC-000420, Rev. 3, Table 5-7. Hazardous materials as defined by the Project were considered to be those chemicals which could present a significant hazard to on-site and off-site personnel if they were released in sufficient amount, called a "Reportable Quantity". The list was compiled considering not only the CERCLA list, but also a broader range of materials classified as hazardous under federal definitions in 49 CFR 172 and 173 and under California definitions in the Health and Safety Code Section 25501.

In the Hot Cell Facility, there were no materials which had been designated as highly hazardous by OSHA in 29 CFR 1910.119 (or by California State law in 8 CCR 5189). There were also no extremely hazardous substances as defined by the US EPA in 40 CFR 355 (equivalent to acutely hazardous materials in California definitions in the Health and Safety Code Chapter 6.95).

Safety & Health Work Performance:

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Throughout the decommissioning period, aspects of the Hot Cell D&D Project are assessed by the General Atomics Quality Assurance Department, through audits, assessments, and inspections of various aspects of decommissioning performance, including Health Physics. Formal Quality Assurance audits will be performed annually in accordance with ASME NQA-1, Quality Assurance program Requirements for nuclear Facilities, to verify compliance with the Hot Cell quality assurance program and to determine effectiveness. The audits are performed in accordance with written checklists by personnel who do not have direct responsibility for performing the activities being audited. Audit reports are distributed to responsible management, up to the Senior Vice President level. Follow-up action is taken, where indicated. Project technical assessments are performed at a frequency of approximately ten to twelve assessments per year, during peak project activity to assess compliance with Project and company procedures, including Health Physics procedures. These assessments are coordinated by the Hot Cell Facility D&D Project Quality Engineer. The assessment teams consist of quality assurance and technical personnel. Assessments are performed in accordance with a written plan. Assessments reports are approved by the Project Quality Engineer and the GA Project Manager. Follow-up action is taken, where indicated. Additional assessments or management reviews are performed when deemed appropriate by the GA Project Manager. such assessments include Readiness Reviews prior to start of a new task, or Management Assessments.

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

PBS Comments:

The project is included in the Small Site Initiative program. The Small Site Initiative justifies the need for increased funding in the early years which in turn accelerates the project and eliminates outyear costs. Although the Small Site Initiative program has the potential to provide additional funds in early years, it does not however guarantee that additional funds will be available to accelerate the project.

Baseline Validation Narrative:

An Independent Cost Estimate for the General Atomics Hot Cell Facility D&D Project was developed July 18, 1995. The report, which was submitted to the Hot Cell D&D Project Contracting Officer, was the basis for contract negotiations. The contract was definitized January 1996.

General PBS Information

Project Validated?	Yes	Date Validated:	1/18/1995
Has Headquarters reviewed and approved project?	No		
Date Project was Added:	12/1/1997		
Baseline Submission Date:	7/13/1999		
FEDPLAN Project?	No		

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Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	Y	N	Y	N	Y	Y	N

Project Identification Information

DOE Project Manager: James A. Davis, III

DOE Project Manager Phone Number: 510-637-1634

DOE Project Manager Fax Number: 510-637-2031

DOE Project Manager e-mail address: james.davisIII@oak.doe.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	12,810	0	12,810	3,600	3,776	4,280	4,269	2,030	1,100	100	100	100	1,000	500	0	
PBS Baseline (constant 1999 dollars)	12,595	0	12,595	3,600	3,776	4,280	4,269	2,030	1,071	95	93	91	896	439	0	
PBS EM Baseline (current year dollars)	12,810	0	12,810	3,600	3,776	4,280	4,269	2,030	1,100	100	100	100	1,000	500	0	
PBS EM Baseline (constant 1999 dollars)	12,595	0	12,595	3,600	3,776	4,280	4,269	2,030	1,071	95	93	91	896	439	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 8/1/2000

Current Projected End Date of Project: 9/30/2005

Explanation of Project Completion Date Difference (if applicable):

Shipment date for the transfer of the irradiated fuel materials from the GA site to INEEL changed from FY00 to FY05.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	11,477	Actual 1997 Cost:	3,776	Actual 1998 Cost:	4,269
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	3,432	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			93

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Project Reconciliation

Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): 3,525

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-):

Cost Associated with New Scope (+):

890 Increase in the amount of contaminated soil to be disposed of as LLW.

Cost Growth Associated with Scope Previously Reported (+):

300 Surveillance & Maintenance of the stored IFMs

Cost Reductions Due to Science & Technology Efficiencies (-):

Subtotal:

4,715

Additional Amount to Reconcile (+):

0

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **4,715**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
BEGIN D&D OF GA HOT CELL FACILITY	OK012-08		2/1/1996			11/30/1995					
COMPLETE DEMOLITION OF FACILITY	OK012-30		12/2/1998			12/2/1998					
COMPLETE HCF SOIL REMEDIATION	OK012-33		1/30/1999								
OBTAIN REGULATORY RELEASE OF SITE TO UNRESTRICTED USE	OK012-37		9/28/1999								
PACKAGE AND SHIP IRRADIATED FUEL MATERIALS TO INEEL FOR INTERIM	OK012-41		9/30/2005								Y
PROJECT MISSION COMPLETE	OK012-42		9/28/1999								
RELEASE OF APPROVED D&D PLAN	OK012-05		8/31/1995			5/1/1996					
REQUEST A SHIPPING DATE FOR TSCA INCINERATION FOR GA-W031	OK012-31		12/31/1998	9/30/1999	9/30/1999				Y		

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Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
REQUEST A SHIPPING DATE FOR TSCA INCINERATION FOR GA-W043	OK012-19		3/31/1998	3/31/1998		1/5/1998	Y				
REQUEST SHIP DATE FOR TSCA INCINERATION FOR GA-W037	OK012-32		12/31/1998	9/30/1999	9/30/1999		Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W005	OK012-09		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W009	OK012-10		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W014	OK012-11		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W031	OK012-12		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W034	OK012-13		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W037	OK012-14		3/31/1997	3/31/1997		3/29/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W038	OK012-15		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W039	OK012-16		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W043	OK012-17		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W044	OK012-20		3/31/1998	3/31/1998		2/27/1998	Y				
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W046	OK012-29		9/30/1998	9/30/1998		8/17/1998	Y				
SELECT TREATMENT OPTION FOR GA-W007	OK012-18		3/31/1997	3/31/1997		3/28/1997	Y				
SELECT TREATMENT OPTIONS AND SCHEDULE	OK012-21		3/31/1998	3/31/1998		2/27/1998	Y				

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FOR GA-W047											
SHIP GA-W007 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-22		3/31/1998	9/30/1998	9/30/1998	8/14/1998	Y				
SHIP GA-W014 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-23		3/31/1998	3/31/1998		10/31/1997	Y				
SHIP GA-W034 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-24		3/31/1998	3/31/1998		1/5/1998	Y				
SHIP GA-W038 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-25		3/31/1998	3/31/1998		1/5/1998	Y				
SHIP GA-W047 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-34		3/31/1999	3/31/1999		8/14/1998	Y				
SUBMIT DRAFT CLOSURE REPORT TO HQ, NRC, & CAL DHS FOR RVW & COMMT	OK012-39		1/31/2001								
SUBMIT DRAFT D&D PLAN TO HQ, NRC, AND CAL DHS FOR RVW & COMMENT	OK012-03		5/20/1995			4/20/1995					
SUBMIT DRAFT PHASE 1 PROJECT MGMT PLAN/PROJECT PLAN TO DOE	OK012-01		7/20/1994			7/20/1994					
SUBMIT FINAL CLOSURE REPORT TO HQ, NRC, AND CAL DHS FOR APPROVAL	OK012-40		3/31/2001								
SUBMIT FINAL D&D PLAN TO HQ, NRC, AND CAL DHS FOR APPROVAL	OK012-04		8/15/1995			11/14/1995					
SUBMIT FINAL PHASE 1 PROJECT MGMT PLAN/PROJECT PLAN TO DOE	OK012-02		11/30/1994			11/30/1994					
SUBMIT HCF FINAL SITE CLOSURE REPORT TO REGULATORS	OK012-36		8/30/1999								
SUBMIT PHASES 2 & 3 DRAFT PP/PMP TO DOE-HQ FOR REVIEW AND COMMENT	OK012-06		10/30/1995			8/31/1995					
SUBMIT PHASES 2 & 3 FINAL PP/PMP TO DOE-	OK012-07		1/15/1996		2/29/1996	2/27/1996					

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HQ FOR APPROVAL											
TRANSFER IRRADIATED FUEL MATERIALS FROM BLDG 30/INEL FOR STORAGE	OK012-38		8/31/2000								
TREAT GA-W005 ON-SITE	OK012-26		3/31/1998	3/31/1998		12/18/1997	Y				
TREAT GA-W009 ON-SITE	OK012-27		3/31/1998	3/31/1998		6/12/1997	Y				
TREAT GA-W039 ON-SITE	OK012-28		3/31/1998	3/31/1998		9/25/1997	Y				
TREAT GA-W044 ON-SITE	OK012-35		3/31/1999	3/31/1999		7/10/1998	Y				
COMPLETE CONFIRMATORY AND FINAL SURVEYS AND INDEPENDENT VERIFICATION ACTIVITIES			7/31/1999								
DISPOSE OF PROJECT GENERATED RADIOACTIVE WASTE			7/31/1999								
Project Start			8/30/1995								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
BEGIN D&D OF GA HOT CELL FACILITY	OK012-08										
COMPLETE DEMOLITION OF FACILITY	OK012-30		Y				1	1	2		
COMPLETE HCF SOIL REMEDIATION	OK012-33		Y				1	1	2		
OBTAIN REGULATORY RELEASE OF SITE TO UNRESTRICTED USE	OK012-37		Y				1	1	2		
PACKAGE AND SHIP	OK012-41		Y		Y		1	4	4		

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Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
IRRADIATED FUEL MATERIALS TO INEEL FOR INTERIM											
PROJECT MISSION COMPLETE	OK012-42					Y					Completing the remediation of the Hot Cell Facility site.
RELEASE OF APPROVED D&D PLAN	OK012-05										
REQUEST A SHIPPING DATE FOR TSCA INCINERATION FOR GA-W031	OK012-31										
REQUEST A SHIPPING DATE FOR TSCA INCINERATION FOR GA-W043	OK012-19										
REQUEST SHIP DATE FOR TSCA INCINERATION FOR GA-W037	OK012-32										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W005	OK012-09										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W009	OK012-10										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W014	OK012-11										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W031	OK012-12										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W034	OK012-13										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W037	OK012-14										
SELECT TREATMENT OPTION	OK012-15										

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Operations/Field Office: **Oakland**

Site Summary Level: **General Atomics**

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HQ ID: **0271**

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
AND SCHEDULE FOR GA-W038											
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W039	OK012-16										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W043	OK012-17										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W044	OK012-20										
SELECT TREATMENT OPTION AND SCHEDULE FOR GA-W046	OK012-29										
SELECT TREATMENT OPTION FOR GA-W007	OK012-18										
SELECT TREATMENT OPTIONS AND SCHEDULE FOR GA-W047	OK012-21										
SHIP GA-W007 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-22										
SHIP GA-W014 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-23										
SHIP GA-W034 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-24										
SHIP GA-W038 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-25										
SHIP GA-W047 TO A COMMERCIAL FACILITY FOR TREATMENT	OK012-34										
SUBMIT DRAFT CLOSURE	OK012-39									Y	

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
REPORT TO HQ, NRC, & CAL DHS FOR RVW & COMMT											
SUBMIT DRAFT D&D PLAN TO HQ, NRC, AND CAL DHS FOR RVW & COMMENT	OK012-03										
SUBMIT DRAFT PHASE 1 PROJECT MGMT PLAN/PROJECT PLAN TO DOE	OK012-01										
SUBMIT FINAL CLOSURE REPORT TO HQ, NRC, AND CAL DHS FOR APPROVAL	OK012-40									Y	
SUBMIT FINAL D&D PLAN TO HQ, NRC, AND CAL DHS FOR APPROVAL	OK012-04										
SUBMIT FINAL PHASE 1 PROJECT MGMT PLAN/PROJECT PLAN TO DOE	OK012-02										
SUBMIT HCF FINAL SITE CLOSURE REPORT TO REGULATORS	OK012-36										
SUBMIT PHASES 2 & 3 DRAFT PP/PMP TO DOE-HQ FOR REVIEW AND COMMENT	OK012-06										
SUBMIT PHASES 2 & 3 FINAL PP/PMP TO DOE-HQ FOR APPROVAL	OK012-07										
TRANSFER IRRADIATED FUEL MATERIALS FROM BLDG 30/INEL FOR STORAGE	OK012-38									Y	
TREAT GA-W005 ON-SITE	OK012-26										

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
TREAT GA-W009 ON-SITE	OK012-27										
TREAT GA-W039 ON-SITE	OK012-28										
TREAT GA-W044 ON-SITE	OK012-35										
COMPLETE CONFIRMATORY AND FINAL SURVEYS AND INDEPENDENT VERIFICATION ACTIVITIES			Y				1	1	2		
DISPOSE OF PROJECT GENERATED RADIOACTIVE WASTE			Y				1	1	2		
Project Start				Y							Start of Phase 2 activities.

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
RS														
Assess.	NR	0.00	0.00	0.00	1.00		1.00							
RS														
Cleanup	NR	2.00	0.00	2.00				1.00		1.00				
Fac.														
Decom.- Assess.	NF	0.00	0.00	0.00	1.00									
Fac.														
Decom- Cleanup	NF	1.00	0.00	1.00					1.00					
MLLW														
Treatment	M3	0.03	0.00	0.03	0.00		0.00	0.03						

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Project **OK-012 / Hot Cell Facility D&D at General Atomics**

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planned 2004
MLLW														
Storage	M3							1.25	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
MLLW														
Comm. Disp.	M3	1.72	0.00	1.72	0.00		0.00	0.47	1.25					
LLW														
Treatment	M3	209.80	0.00	209.80	0.00		0.00	209.80						
LLW														
Storage	M3							0.00	0.00	0.00	0.00	0.00	0.00	0.00
LLW														
Comm. Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Ship to DOE Disp.	M3	5,709.23	0.00	5,709.23	0.00		0.00	1,490.23	3,105.00	943.00	57.00	57.00	57.00	
Rem. Waste														
Disposed	M3	1,320.00	0.00	1,320.00					1,320.00					
SNF														
Shipped for Consolidation	MTHM	0.06	0.00	0.06				0.00	0.00	0.00	0.00	0.00	0.06	
Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035	
RS														
Assess.	NR													

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
RS													
Cleanup	NR												
Fac.													
Decom.- Assess.	NF												
Fac.													
Decom- Cleanup	NF												
MLLW													
Treatment	M3												
MLLW													
Storage	M3	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
MLLW													
Comm. Disp.	M3												
LLW													
Treatment	M3												
LLW													
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LLW													
Comm. Disp.	M3												
LLW													
Ship to DOE Disp.	M3												
Rem. Waste													
Disposed	M3												
SNF													
Shipped for Consolidation	MTHM												

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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
RS										
Assess.	NR									2.00
RS										
Cleanup	NR									2.00
Fac.										
Decom.- Assess.	NF									1.00
Fac.										
Decom- Cleanup	NF									1.00
MLLW										
Treatment	M3									13.00
MLLW										
Storage	M3	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01		
MLLW										
Comm. Disp.	M3									0.00
LLW										
Treatment	M3									50.00
LLW										
Storage	M3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
LLW										
Comm. Disp.	M3									1,715.00
LLW										
Ship to DOE Disp.	M3								0.00	2,524.00
Rem. Waste										
Disposed	M3								0.00	0.00

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Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
SNF										
Shipped for Consolidation	MTHM									0.06

Release Sites

Site Code	RSF ID	Change Flag	Description	Class/Subclass Name	Planned Assess. Year	Forecast Assess. Year	Actual Assess. Date	Planned Comp. Year	Forecast Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
GEAT	0002		Building 23 \ Hot Cell Facility Yard	Waste/Miscellaneous Surface Debris	1996	1996	5/1/1996	2000	1999			N	Pending	Y
GEAT	0003		Building 23 \ Hot Cell Facility Yard	Tanks/Underground Storage Tanks	1998	1997	8/30/1997	1998	1998	10/1/1997		N	Pending	N

Facility Decommissioning

Site Code	RSF ID	Change Flag	Description	Class/Subclass	Hazard	Plan. Assess. Year	Fore. Assess. Year	Actual Assess. Date	Plan. Deac. Year	Fore. Deac. Year	Actual Deac. Date	Plan. Comp. Year	Fore. Comp. Year	Actual Comp. Date	Acc. Year	No Action	Comp. Status	RAD
GEAT	0001		Building 23 \ Hot Cell Facility	Buildings & Equipment\Other Buildings	Nuclear Facility, Category 3	1996	1996	5/1/1996				1999	1999	10/9/1998	1992	N	Pending	Y