

# The Mixed Waste Management Facility

Project Baseline  
Revision 1.2

April 1995

Lawrence Livermore National Laboratory  
Environmental Programs



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## 1.0 Introduction and Summary

Revision 1.2 to the Project Baseline (PB) for the Mixed Waste Management Facility (MWMF) is in response to DOE directives and verbal guidance (see Appendix A) to

- Collocate the Decontamination and Waste Treatment Facility (DWTF) and MWMF into a single complex, integrate certain and overlapping functions as a cost-saving measure;
- Meet certain fiscal year (FY) new-BA funding objectives (\$15.3M in FY95 with lower and roughly balanced funding for out years);
- Reduce Total Project Cost (TPC) for the MWMF Project;
- Include costs for all appropriate permitting activities in the project TPC.

This baseline revision also incorporates revisions in the technical baseline design for Molten Salt Oxidation (MSO) and Mediated Electrochemical Oxidation (MEO). Changes in the WBS dictionary that are necessary as a result of this rebaseline, as well as minor title changes, at WBS Level 3 or above (DOE control level) are approved as a separate document. For completeness, the WBS dictionary that reflects these changes is contained in Appendix B.

The PB, with revisions as described in this document, were also the basis for the FY97 Validation Process, presented to DOE and their reviewers on March 21–22, 1995. Appendix C lists information related to prior revisions to the PB.

Several key changes relate to the integration of functions and sharing of facilities between the portion of the DWTF that will house the MWMF and those portions that are used by the Hazardous Waste Management (HWM) Division at LLNL. This collocation has been directed by DOE as a cost-saving measure and has been implemented in a manner that maintains separate operational elements from a safety and permitting viewpoint. Appendix D provides background information on the decision and implications of collocating the two facilities. Key elements of the collocation addressed by this revision are as follows:

- The DWTF and MWMF have been collocated into a single complex. The building structures and operational elements continue to be separate, for functional, safety, permitting, and schedule reasons.
- Several overlapping functions have been integrated, and cost savings have been realized:
  - HWM will have primary responsibility for shipping and receiving, thereby reducing the cost of that element in the MWMF.
  - The MWMF will have lead responsibility for providing analytical services to the complex, resulting in cost savings for the DWTF and net savings overall.
  - The MWMF will lead and provide supervisory controls for Building 695 (MWMF and Liquid Waste Processing Building), resulting in cost savings for the DWTF and net savings overall.
  - HWM will provide water treatment function for all except "demonstration water," per the results of the Water Treatment Trade Study. This reduces MWMF costs.
  - The HWM infrastructure will be used to provide certain operational-support functions (training, engineering, supervisory, etc.) that heretofore were costed

under the MWMF. This has reduced the estimate for the Start-Up and Activation WBS elements 1.2.2 and 1.2.3.

- Overall costs of the facility were reduced by the integration of a number of common areas between the MWMF and DWTF. This integration has reduced DWTF costs, but does not directly affect MWMF costs. These include shared bathrooms, change rooms, and storage with HWM, resulting in a reduced footprint of Building 695.
- Due to the DWTF and MWMF merge and reduced DWTF budgets, the Technical Integration WBS element (1.3.3) added a person to handle facility interfaces.
- Certain integration functions that have yet to be resolved are *not* part of the rebaseline. Examples include shared feed preparation, drum opening area, and decontamination areas with HWM; reduced negative pressure/zoning requirements; and further building footprint reductions. These are required to achieve the remaining cost-reduction objectives of the integration, but require further, detailed trade studies.

The collocation of the DWTF and MWMF has resulted in a delay in project completion of about 12 months from that presented in Revision 1.0, and about 22 months from that presented in Revision 0 [the Conceptual Design Report (CDR)]. The motivation for the collocation is an overall cost savings for the sum of the two projects and a reduction in operational costs of the facility by means of improved efficiencies.

In spite of the additional schedule delay and the inclusion of permitting costs, the revised TPC for MWMF has been reduced to below \$60M, a key objective. This has been accomplished by a combination of mechanisms:

- LLNL has agreed that the CENRTC-funded portion of the MWMF Project will be excluded from the Laboratory Directed Research and Development (LDRD) tax (see Section 4).
- The project has been downscoped in several areas to reduce costs (see Sections 2 and 5).
- During preliminary/Title I design activities in several areas, the engineering team has found more cost-effective approaches to meeting System Design Requirements (SDRs) than were envisioned and cost-estimated for the CDR. Where appropriate, these changes have been reflected in the current cost estimates (see Sections 4 and 5).

Based on an agreement between project management and DOE/OAK, the estimates in this rebaseline are based on modifications of Rev 1.0 estimates. In a few specific cases, new bottom-up estimates were developed to support new cost estimates. A complete bottom-up estimate at this time would not be cost-effective, given the status of the Project. Key factors leading to this agreement are as follows:

- The Project is nearing completion of Title I design. A bottom-up estimate will be prepared near the conclusion of this design effort (during July, 1995) and will be reviewed as part of the DOE management process.
- Current DOE guidance indicates that further significant changes in funding, scope, and schedule are likely in the near term. The impact of these changes will be included in the next rebaseline.
- This rebaseline incorporates significant scope changes or cost savings that have been identified to this point in the Title I design. However, additional value-engineering design changes are expected by the completion of Title I.

- The use of Primavera software for cost roll-up and the newly imposed LLNL indirect-cost accounting structure limited the standardization of the input data that could be achieved (see Section 4). This will be resolved by the next revision.

All changes are controlled at WBS Level 3 and are reported and cost-reconciled in the Level 3 Summaries in Section 5. As a modification to the Rev 1.0 Baseline, this rebaseline represents a valid and useful snapshot in time, which provides a basis for traceability and approval of the directed changes.

## 2.0 Revised Technical Baseline

Scope changes included in this rebaseline are discussed in detail in the WBS Level 3 Summaries contained in Section 5. Changes are taken with respect to the Project Baseline, Revision 1.0, issued September, 1994.

The major changes are summarized as follows:

- The baseline design concept for MSO has been modified from a single, large, refractory-brick-lined primary vessel to one that integrates two to three, smaller, all-metal vessels. This concept evolved from the Engineering Development and Title I design activities. The multiple-vessel design offers a number of significant advantages, including cost reduction, greater use of standard components, and operational flexibility. The proposed throughput, however, may be reduced somewhat to achieve the total cost-savings goals. The proposal was reviewed by a committee of LLNL project staff, other LLNL scientific staff, and ETEC scientific support on February 15, with favorable responses. Subsequently, the review documents have been supplied to DOE for review.
- The throughput of MEO has been reduced significantly (~50%) and the solid-feed waste stream was deleted to achieve the necessary cost savings. A revised acquisition plan, which will make use of some existing equipment, results in cost savings and reduces overall project risk. Design work to include "hooks" for future decontamination applications have been included.
- The general scope of Analytical Services, Supervisory Controls, Water Treatment, and Shipping and Receiving have been modified to reflect the MWMF/DWTF collocation, as discussed above.
- The scope of Water Treatment has been reduced in a benign manner to reflect the results of the Water Treatment trade study. Specifically, the MWMF will be responsible for funding equipment and design related to water-treatment elements required for the demonstration purposes. Other water will be directed to HWM for disposition as part of HWM ongoing operations. Certain appropriate scope and costs were transferred to Process Transport and Storage.
- Experimental Off-Gas has been significantly reduced in scope to allow wrap-up of current development work (which will be directly applicable to MEO). A small budget near the end of the Project for high-priority work (e.g., metal HEPA filters) has been maintained.
- One output stream—inorganic solid residues that would volatilize during immobilization—has been deleted from Final Forms.
- Certain functions (such as training, engineering, and supervision) in the Start-Up and Activation WBS elements have been reduced in scope in keeping with the integration of MWMF and HWM operations.

### 3.0 Revised Schedule Baseline

The Integrated Project Schedule (IPS) associated with this Project Baseline revision is presented in Appendix E. Key milestones associated with this schedule are summarized in Appendix F, which compares these new milestone dates with those from prior baseline revisions.

Significant changes were required to accommodate the slip in beneficial occupancy of the facility to house the MWMF. With the collocation of the MWMF and DWTF, a new building (Building 695) will be constructed instead of upgrading Building 494. This results in a 15-month delay in beneficial occupancy, at which time installation of MWMF equipment can begin. The time for installation, engineering tests, integrated tests, and operational tests has been compressed from that used in the Rev 1.0 schedule, so that a 13-month delay in initial operations and a 12-month delay in project completion results from the decision to collocate the facilities.

To accommodate the delay in beneficial occupancy and minimize stretch-out costs, the design and procurement activities have been delayed and resources flattened. Given prior indications of planned delay and reduced funding by DOE, the planned ramp-up in manpower for design had already been essentially deferred except for critical areas. Title I completion is delayed by six months and Title II completion by 11 months. Where possible, designs are accomplished in series, rather than parallel, using existing staff or with minimal personnel commitments. Similarly, engineering development activities (in support of engineering design) are stretched out, but maintained at a lower rate to reflect the design stretch-out and to minimize cost impact.

The installation, test, and acceptance phases of the Project are accomplished using a phased completion as integrated into PB Revision 1.0. In this plan, the most important early-phase systems (MSO and crucial support systems) are installed and accepted first to allow initial operations to begin, while those systems (or portions of systems that can be delayed from initial operations) are installed later. The current time separation of early- and late-phase systems is five months, similar to that for the Rev 1.0 schedule.

Start-Up and Activation activities are ramped up at a later date, supported by a low-level activity (about 1 FTE total) continuing through the design and procurement phases.

## 4.0 Revised Cost Baseline

Cost estimates were, in general, based on the Rev. 1.0 costs, as estimated using the Automated Estimating System (AES). Where appropriate, due to large scope or schedule changes, a new bottom-up estimate was completed. Details of changes in scope and cost (along with detailed cost reconciliation) that are associated with this revision are contained in the WBS Level 3 Summaries in Section 5. Appendix G presents a summary of the escalated project costs by Fiscal Year at WBS Level 3. Appendix H presents a summary of the unescalated project costs (along with summary cost reconciliation information) at WBS Level 3. Appendix I summarizes the cost and funding profiles for OPEX and CENRTC.

The mechanism and constraints by which the cost estimates are developed were modified for this revision. Two major changes occurred:

1. Beginning October, 1995, LLNL introduced a new institutional financial structure to manage indirect costs, with an objective of identifying and eventually reducing cost centers. In summary, the general Laboratory overhead rate was eliminated in favor of a "value-added" corporate [general and administrative (G&A)] charge, along with "lower-level" charges for specific program, personnel, and facility costs that can be better controlled by individual Laboratory elements (programs, departments, support elements, etc.). The new structure was designed to be revenue-neutral (i.e., no increased indirect costs, on average, to Laboratory programs).

Implementation of the Project required a more detailed breakout between manpower, procurements, and expenses, since each category received different indirect-cost rates. This required a different estimation methodology than was used for Revision 0 and Revision 1.0.

Other specific impacts and assumptions by this change are as follows:

- MWMF capital-funded elements were made exempt from the new G&A charge, although the overhead charge had been previously waived for the MWMF.
  - A significant change in this revision is the agreement by the Laboratory to waive charges for the LDRD tax for MWMF capital-funded elements.
  - Preliminary rates for program, personnel, and facility charges have been used in the present cost estimates. Among these, the Programmatic Management Charge (PMC) for the Environmental Directorate is assumed to be waived.
2. Primavera management-control software has been used to time-spread and roll up estimated costs. Revisions 0 and 1.0 used the AES to distribute the estimated costs over the duration of the project, to roll up the costs from "bills of materials" (manpower and material listings), and to report the costs (by activity/participant code, manpower type, etc.). Primavera was already used during this process to develop the detailed IPS, which was summarized in AES to distribute costs. The major visible effect of this change is to modify the summary reports that are available, although significant changes also occur in the way that bottom-up estimates are input and that escalation is incorporated into the cost estimate.

Prior to this rebaseline, the MWMF Project selected Primavera as a primary project-control tool since it was already used in the Project and, with some ancillary interfaces, could become the central tool for a cost-effective project cost and schedule

control system. AES typically is used for early project estimating, but not project control. Since Primavera was already partially implemented, it was decided to use Primavera to spread and roll up costs for this revision. As noted in Section 1, this limits the standardization of the input data that could be achieved at this time. However, it was more cost-effective and produced more meaningful information than another derivative estimate using the AES format, and it shortened the turnaround time considerably for the several iterations required to achieve consistency between work scope and the DOE-directed FY cost profiles.

The major visible changes from the use of Primavera are as follows:

- Summary reports appear different from and are somewhat more limited (at this time) than those obtained previously using AES.
- Excel spreadsheets are used to provide final roll-up of separate OPEX and CENRTC costs and to apply escalation.
- Primavera cost profiles represent "as-costed"/"actual" costs. To determine "Budget Authority"/"Obligation" funding profiles, Excel spreadsheets are used to calculate the estimated funds that are required in prior year(s) to allow liens for contracts or multiyear procurement actions.

The revised TPC for the MWMF has been reduced below \$60M, a key objective for this revision. Further, this reduction includes the additional schedule delay, with its associated stretch-out costs, and the DOE-directed inclusion of permitting costs. As discussed in Section 2, while there have been certain reductions in scope to achieve this goal, all key elements of the Project remain in place with this revision. The cost reduction has been accomplished by a combination of mechanisms:

- LLNL has agreed that the CENRTC-funded portion of the MWMF Project will be excluded from the LDRD charge. This is in addition to the previous waiver of overhead (now corporate G&A) charges. The resulting savings exceed \$2M.
- During Preliminary/Title I design activities, the engineering team has found more cost-effective approaches, in certain WBS elements, to meeting SDRs than was envisioned and cost-estimated for the CDR. The savings are significant in several cases, although the Title I work is not complete at this time. Rather than unnecessarily downscoping the Project, these changes have been reflected in the current cost estimates (see summary below and Section 5).
- The Project has been downscoped in several areas to reduce costs. These represent true reduction or change in scope of the Project. Major changes are summarized below, but details are discussed in Section 5.

### **Summary of Changes Reported in Section 5**

Section 5 contains details of scope and cost changes, and provides cost reconciliation, at WBS Level 5. However, these are the major cost changes associated with this revision:

- Two groups of WBS elements are essentially level-of-effort activities for the Project. Although resources are minimized within these elements, a schedule delay necessarily results in stretch-out costs. One group of WBS elements is Project Management, which includes WBS 1.1.5, 1.3.1, and 1.3.2; the other group is Project Support (QA, safety, environmental, regulatory, public participation, technical

integration, and start-up and activation), which includes WBS 1.1.1, 1.1.2, 1.1.3, 1.1.4, 1.1.6, 1.2.2, 1.2.3, and 1.3.3.

- DOE/OAK directed the Project to direct-charge all appropriate permitting costs to the Project. Typically, these costs are borne by the Permits and Regulatory Affairs Group section, as part of the overhead activities at the Laboratory. Although costs associated with work for the MWMF have been tracked separately so that they could be specifically identified, DOE/OAK wished to have permitting costs included as part of the TPC.

To minimize this impact, discussions with Laboratory and DOE/OAK financial organizations resulted in agreement that permitting during and after FY95 (i.e., essentially following the CDR) should be charged as a CENRTC-funded activity instead of an OPEX-funded activity, since it is in support of equipment fabrication and installation.

- In the Start-Up and Activation WBS elements, costs for certain functions (such as training, engineering, and supervision) have been reduced, assuming integration of MWMF and HWM operations. The buildup of an operations team has been delayed to reflect delayed installation. A low-level (about 1 FTE) of "operational presence" is maintained during the design and fabrication phases to provide operational review of designs, definition of operational requirements, and long-range planning (Transition Plans, Demonstration Plans, Readiness Plans, etc.).
- Costs of several WBS elements have been adjusted up or down to reflect changes in scope due to the DWTF/MWMF collocation. This is discussed in Section 1.
- Due to the DWTF/MWMF merge and reduced DWTF budgets, the Technical Integration WBS element added a person to handle facility interfaces.
- The results of Title I design work in Shipping and Receiving, Solids Feed Preparation, and Liquids Feed Preparation have been incorporated to reflect a reduced cost without a significant reduction in scope.
- MEO costs were significantly reduced by a revised acquisition strategy (using certain existing equipment), small capability reduction (elimination of solid feed), and significant reductions in throughput. A small cost increase was included to design "hooks" for future decontamination applications.
- MSO costs were reduced by changing the baseline design to a multiple-vessel concept. The revised baseline design also offers more flexibility in performance and cost tradeoffs.
- The cost for Experimental Off-Gas is reduced by a significant and adverse reduction in scope.
- Certain appropriate scope and costs were transferred between the Water Treatment and Process Transport and Storage WBS elements.
- Due to a requirement for more frequent salt encapsulation operations in Final Forms, the cast thermosetting polymer process is costed for completion in-house. This is a change from the earlier revision, in which this effort was to be completed by an outside contractor using operating funds. Additional Project costs are incurred to gain experience and train personnel prior to operation, but these should be offset by reduced operations cost in out years.
- Costs for the CDR WBS element (WBS 1.2.1) are increased from Rev 1.0 as a result of the delayed KD-1 and response to CDR actions. This work has now been closed.

- In most cases and unless appropriate, Management Reserve (MR) has been maintained at the same percentage of cost-to-complete, at WBS Level 3, as was used and validated in the CDR. WBS elements 1.1.5, 1.3.1, and 1.3.3 contained no MR in the CDR. In this revision, MR is added to these elements to reflect unplanned and ongoing requests for additional trade studies, baseline revisions, etc. by DOE.

The calculation of requested Budget Authority (BA) is accomplished differently for this revision than previously. In AES, essentially all schedule procurements were *advanced* by six months to estimate the average requirement for authorized funds (BA) to cover liens for contracts or procurements that overlapped fiscal years. Such procurements were also *delayed* by several months to reflect the average time for charges to appear in the Laboratory General Ledger [Budget Outlay (BO)], which is the basis of comparing "planned" versus "actual" costs and is used for Project cost control. These actions provided the "funding request"/BA and the "as-costed"/BO profiles, respectively, in AES.

For this revision, the FY profiles developed by Primavera are directed to be "as-costed" profiles. To determine the BA profile, each Level 3 element identified what liens ("commitments" or "obligations") would be necessary, on a year-by-year basis, to approve and release contracts or long-duration procurements at LLNL. The "as-costed" profiles were then adjusted by these liens to develop the BA profile. For this revision, the DOE-directed funding profile requires significant expenditures in FY95, and requires that significant commitments be made late in—or immediately after—Title II. The assumptions made to accomplish this profile are identified in Table A.

For this revision, a breakout of costs is presented in Table B. The values are within typical ranges for similar high-technology projects.

**Table A**  
**Assumed Budget Authority adjustments, Revision 1.2**

<b>WBS</b>	<b>Obligations</b>
1.4.2	Overhead crane/transport system, decontamination system
1.4.3	Tanks and sensors, liquid/solid and liquid/liquid separation equipment
1.5.1	Enclosures, distillation column, evaporator, centrifuges
1.5.2	Design contract for salt recycle system, fabrication contracts for primary vessel, enclosures, and off-gas system
1.6.2	Long-lead analytical equipment
1.6.3	Rotary calciner, pellet press
1.6.5	Computer hardware, application software, consoles, surveillance CCTV, intercom equipment

**Table B**  
**Breakout of costs for Project Baseline, Revision 1.2**

<b>Category</b>	<b>% of Cost-To-Complete (CTC)<sup>1</sup></b>	<b>% of Estimate-At-Completion (EAC)<sup>1</sup></b>
Management <sup>2</sup>	15	17
Conceptual Design	0	4
Start-Up & Activation	14	12
Treatment Technologies <sup>3</sup>	29	27
Treatment Technologies and Support Systems <sup>4</sup>	66	61

<sup>1</sup>Based on unescalated costs, without management reserve.

<sup>2</sup>WBS 1.1.5, 1.3.1, 1.3.2 adjusted for costs related to CDR and delayed KD-1.

<sup>3</sup>WBS 1.5 only.

<sup>4</sup>WBS 1.4, 1.5, 1.6, 1.3.3.

## 5.0 WBS Level 3 Revised Baseline Summaries

**WBS Element:** 1.1.1 Quality Assurance

**Task Description:** Quality Assurance provides QA support to the MWMF Project. This effort includes development and implementation of the Project's QA program and oversight for conformance to the approved plan and other quality and ES&H requirements. This WBS element covers only a proportional fraction of the OPEX QA effort, with the CENRTC portion contained under WBS 1.3.2, Project Control.

**Changes from Previous Baseline:** No significant change in scope or cost basis. The duration of the activity has been lengthened by 12 months to reflect the delayed Project completion date.

The apparent increase (+\$133K for Rev 1.2) is due to higher costs in FY94; the annual spending rate for Rev 1.0 and Rev 1.2 are about the same. These larger FY94 costs occurred for two reasons:

1. In Rev 1.0, costs prior to April 1994 (the start date for Rev 1.0 estimate) were inadvertently excluded (about +\$50K impact for Rev 1.2).
2. During FY94, the FTE rate ran about 0.7/mo., instead of the 0.2/mo. assumed in the Rev 1.0 roll-up (about +\$70K impact for Rev 1.2). This apparent cost *increase* in WBS 1.1.1 was reflected in an associated cost *decrease* in WBS 1.3.2, where related costs were contained. Therefore, TPC did not increase.

These deviations appear transitory and related to the changing baselines and start-up issues in the cost control system. Expenses in both WBS 1.1.1 and 1.3.2 tracked close to the *Revised FY94 Plan*. Also, FTE rates and costs for FY95 are tracking near the plan reflected in the Rev 1.2 estimate. Therefore, these estimates appear reasonable.

The MR has been maintained at 16% of remaining costs, in accordance with CDR estimates.

### Funding Profile: (BO/spending profiles, unescalated, \$K)

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	105	33	34	35	29	236
Management Reserve	0	0	5	5	5	5	20

**Major Milestones:** This element is a low-cost level-of-effort activity, so that no new milestones are identified here. Since most QA costs are identified in WBS 1.3.2, major QA milestones are identified under that WBS element.

Milestone	Date
Project QA Plan issued	10/93 (complete)

**WBS Element:** 1.1.2 PSAR

**Task Description:** The *Preliminary Safety Analysis Report* (PSAR) provides the integration of safety input, design reviews, and safety analysis for Phases I and II of the integrated MWMF/DWTF Project. Safety analysis includes analysis, generation of documentation, and documentation review and approval. The element includes the generation of the PSAR, which must be completed prior to major procurements and follow-on analysis required for the generation of the *Final Safety Analysis Report* (FSAR). The FSAR is required after construction and before operation.

**Changes from Previous Baseline:** There are no significant ongoing activities on the PSAR because the document was completed and distributed in 1994.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	342	20	0	0	0	361
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

	Milestone	Date
	PSAR to DOE for review	12/94 (complete)

**WBS Element:** 1.1.3 Environmental Documentation

**Task Description:** The National Environmental Policy Act (NEPA) portion of this WBS element provides for preparing the *Environmental Assessment* (EA) and all follow-up documentation required by DOE to determine impacts. The effort includes preliminary evaluations, preparation of technical information, EA preparation, comment, and resolution.

The California Environmental Quality Act (CEQA) and permitting portion of this WBS element provide for preparing permit applications and associated environmental analysis to support the regulatory agency permitting and CEQA review process. The effort includes preliminary evaluations, preparation of technical information to support the agency CEQA document and permit evaluation, comment, and resolution. This element prepares and coordinates approval of State and local permits and supports public participation activities associated with the permit approvals.

**Changes from Previous Baseline:** An EA was drafted and forwarded to DOE for consideration in August 1994. DOE requested changes to reflect changes in scope of the Project and reorganize data analysis. These changes were completed, and the document was resubmitted to DOE in February 1995.

Permit applications are being drafted in FY95 for submittal to regulatory agencies. An RD&D permit is being pursued for demonstrating mixed waste treatment technology, and air permits are required for air-pollution-control equipment on sources of regulated pollutants. To comply with the CEQA, the regulatory agencies may request assistance from LLNL to provide documentation to support their analysis of potential environmental impacts resulting from permitting of the proposed project.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	190	247	287	52	0	776
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

Milestone	Date
Submit revised EA to DOE	2/95 (complete)
Submit RD&D permit application to DTSC	2/95 (in progress)
EA determination by DOE	4/95
Submit air permit to BAAQMD	4/96
Authority to Construct issued by BAAQMD	7/96
RD&D permit issued by DTSC	4/96

**WBS Element:** 1.1.4 ES&H

**Task Description:** This task provides for ongoing environment, safety, and health (ES&H) representation to the MWMF Project by ES&H specialists to ensure that all activities are conducted in a safe and environmentally sound manner and to ensure that ES&H standards have been properly applied.

**Changes from Previous Baseline:** This is an ongoing level of effort activity to supply ES&H specialists to assist project members in meeting ES&H requirements (hold design reviews, develop operational procedures, inspect and monitor activities).

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	136	162	155	155	195	803
Management Reserve	0	0	0	0	0	0	0

### Major Milestones

	Milestone	Date
	Level-of-effort activity	

**WBS Element:** 1.1.5 Program Support

**Task Description:** Program Support provides top-level planning, control, and support of MWMF Project OPEX-funded activities. Specific activities include managing Project assurances and interfacing with development activities. This element encompasses support for the Project Office, including organization, schedule and budgeting activities, project plans and reporting, personnel hiring and housing, project operations control, facility technical support, and OPEX-funded technical support.

**Changes from Previous Baseline:** As part of the Rev 1.2 effort, the cost for Program Support activities was addressed by a bottom-up analysis for FY95 through the end of the Project. As noted below, a significant portion of the Program Support budget was expended in FY94. For the remainder of the Project, a minimum possible manpower level was determined consistent with Project goals, and where reasonable, costs were shifted to CENRTC activities. Technical-support manpower, generally reserved for out-of-scope trade studies not covered by CENRTC (e.g., Water Treatment Study, MSO/Incineration position paper), has been significantly reduced. General management support has been reduced to specific individual "level-of-effort," with all facility (OFC) charges shifted to CENRTC as appropriate. Finally, in anticipation of operations in the latter half of FY98, MWMF Project costs were reduced commensurate with the anticipated increase of operations funding. These changes significantly reduce the funding requirements for FY95 through FY98.

Actual costs also are included for FY94. These costs reflect the extended OPEX support of project activities during CDR and following CDR prior to KD-1 approval. Although a number of cost elements were reallocated to CENRTC accounts as appropriate, a number of significant cost elements, which could not be attributed directly to specific capital items, were left in place. These include systems integration and flowsheet modeling, project control, Building 494 facility relocation costs, and treatment process support.

**Description of Changes, Assumptions, and Impact**

- Higher FY94 costs due to delayed approval of KD-1
  - Impact: Increase of approximately \$828K in FY94.
- Stretch-out of level-of-effort activity to account for Project revised schedule
  - Impact: Increase of approximately \$400K.
- Added Management reserve to account for unanticipated, but within-scope, cost elements. This has been used to cover the increasing number of schedule and cost assessments of funding alternatives.
  - Impact: Potential increase of \$262K.
- Reduction of general and technical support manpower
  - Impact: Reduced ability and/or longer turnaround in addressing out-of-scope technical issues. Impact can be minimized by freezing Project scope and limiting excursion studies. A separate account will ultimately have to be set up to address operations and for technical support of future technologies. Project reporting, beyond what has been put in place, may be significantly limited.

- Shifting of cost burdens to operations in FY98
  - Assume: Ongoing "Program Demonstrations" will be funded from separate operations budget.
  - Impact: Assuming ongoing demonstrations are covered by separate budget element, there should not be an impact from this reduction. However, if funding is not available, there will be a significant impact on our ability to initiate demonstrations beyond start-up and activation of any of the systems.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	1904	374	376	497	249	3400
Management Reserve	0	0	60	60	84	58	262

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete Project Management Plan (Final)	1/95
Complete and Submit FYXX Plans	10/XX
Complete Project Validations	3/XX
Complete and Submit Monthly Reports	Monthly

**WBS Element:** 1.1.6 Public Participation

**Task Description:** Public Participation provides for public input to the planning and execution phases of the MWMF Project. Included are a National Review Panel (NRP), a Community Newsletter, and preparing and coordinating press releases and community tours.

**Changes from Previous Baseline:** This element has been reduced in scope as a level-of-effort activity. The essential elements relative to the NRP will not be changed significantly from the previous baseline. However, due to changes in schedule and scope mandated by the revised DOE budget, many of the early schedule dates have been revised to be consistent with Project activities. The number of other outside participation meetings will have to be limited to stay within budget guidelines.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	11	97	97	100	102	407
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

Milestone	Date
National Review Panel (NRP) formed	4/95
First meeting of NRP	5/95
Issue first public newsletter	6/95
Second meeting of NRP	11/95
Issue second newsletter	12/95

**WBS Element:** 1.2.1 Conceptual Design

**Task Description:** Conceptual Design provides the Project's technical, cost, and schedule baselines that form the basis for KD-1.

**Changes from Previous Baseline:** Conceptual design activity is complete. No further activities remain in this WBS element.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	483	1754	0	0	0	0	2237
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

	Milestone	Date
	No activity	

**WBS Element:** 1.2.2 Plant Start-Up Management

**Task Description:** Plant Start-Up Management provides (1) operations and maintenance review of system designs; (2) the development of top-level plans for staffing, training, testing, and readiness review; (3) task analysis and preparation, review, and revision of site operating plan, maintenance, instrument calibration, and emergency response procedures; (4) recruiting, hiring, clearing, and providing general employee training for the plant staff; and (5) the development of training materials, training the trainers, and special technical and on-the-job training for the plant staff.

**Changes from Previous Baseline**

Plant Start-Up (WBS 1.2.2) and Activation (WBS 1.2.3) activities are closely coupled and only maintained separately due to the original WBS structure. All aspects of these combined activities are reported under WBS element 1.2.3, since the major effort and cost are contained therein. The cost profiles are shown separately. However, as detailed work under these activities begin in the future, these WBS elements may be combined.

**Funding Profile (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL Rev 1.2
Cost Plan			98	263	984	355	1700
Management Reserve			12	32	118	43	204

**Major Milestones**

Milestone	Date
Issue Start-Up and Activation Plan	9/95
Operational Readiness Assessment (ORA) Plan	7/96
Complete MWMF Training Plan	7/97
Complete initial operational procedures	10/97
Complete operational safety documents	11/97
Complete initial test procedures	12/97

**WBS Element:** 1.2.3 Activation

**Task Description:** Activation provides (1) the preparation, review, revision, and release of all Operational Test Procedures (OTPs); (2) plant systems activation, integration, and performance of OTPs in each of the technology areas, including Operational Readiness Reviews (ORRs); (3) technical support for the preparation of Operational Safety Requirements (OSRs) and Facility Safety Requirements (FSRs), as well as the identification and resolution of problems during plant operational testing, start-up, and activation, including finalization of design documentation for equipment and process modifications; (4) maintenance support to perform equipment or process modifications during start-up, testing, and activation; (5) all operational spares and the initial stores inventory; and (6) all manpower and materials required to deliver support services (e.g., utilities, power) during construction, testing, and activation of the MWMF.

**Changes from Previous Baseline:** Plant Start-Up (WBS 1.2.2) and Activation activities (WBS 1.2.3) are closely coupled and are maintained separately only because of the original WBS structure. All aspects of these combined activities are reported under this WBS element, although the cost profiles are shown separately. In the future, as detailed work under these activities begins, these WBS elements may be combined.

While the scope did not significantly change the for Start-Up and Activation (SUA) elements for Rev. 1.2 (versus Rev 1.0), the significant schedule delay and integration of the MWMF and DWTF into a common facility required that essentially a new bottom-up cost estimate was completed. New estimating worksheets were used, and assumptions of the operations staff were integrated with those of HWM, which will likely play a significant role in operating the MWMF.

Overall, the revised estimates for SUA resulted in a lower cost estimate than in Rev 1.0 (about \$425K). Significant items include the following:

- In an attempt to minimize the impact of the extended schedule, a lower level of monitoring during the extended design and procurement phases was assumed.
- The staff of the "initial operations" team was reduced, with certain functions to be provided by HWM using functions that already exist or will exist. These include training and certain clerical, engineering, design, technical, and coordinator support activities. In total, it is estimated that about 3-6 FTEs are involved.
- A more rapid ramp-up of the initial operations team was assumed.
- After completion and acceptance of first-phase Project activities (MSO, essential support functions, etc.) it is assumed that 33% of the ongoing initial-operation expenses are to be costed against the MWMF TPC in support of completion of the remaining Project activities. The remaining portion of the expenses is assumed to be covered by an operating budget (outside of the MWMF TPC) in support of actual operations and demonstrations.

**Funding Profile (BO/spending profiles, unescalated, \$K)**

WBS 1.2.3	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	0	0	0	584	3638	4222
Management Reserve	0	0	0	0	70	437	507

1.2.2+1.2.3	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	0	98	263	1568	3993	5922
Management Reserve	0	0	12	32	188	480	712

**Major Milestones**

Milestone	Date
Complete initial-phase preoperational integrated tests	3/98
Complete initial-phase Operational Readiness Assessment	4/98
Complete late-phase pre-operational integrated tests	8/98
Complete late-phase Operational Readiness Assessment	9/98

**WBS Element:** 1.3.1 Project Management

**Task Description:** Project Management provides top-level project planning, direction, and control of the MWMF Project CENRTC-funded systems. Specific activities include project management and support of the Project Office, project assurance (including QA, safeguards, environmental, and safety oversight), management overview of information management and technical activities, and interface with DOE.

**Changes from Previous Baseline:** As part of the Rev 1.2 rebaseline effort, the cost for Project Management activities was addressed from a bottom-up analysis for FY95 through the end of the Project. The primary results of this evaluation were an increase in budget to account for Project stretch-out, and the addition of a management reserve to account for unanticipated but within-scope cost. A minimum possible manpower level was determined consistent with Project goals. Technical support manpower was shifted to specific technical elements and system integration, as appropriate. General project management has been reduced to specific individual "level-of-effort." Finally, in anticipation of operations in the latter half of FY98, MWMF Project costs were reduced commensurate with the anticipated increase of operations funding. These changes significantly reduced the funding requirements for FY98. Actual costs also are included for FY94.

**Description of Changes, Assumptions, and Impact**

- Stretch-out of level-of-effort activity to account for project revised schedule
  - Impact: Increase of approximately \$800K.
- Added management reserve to account for unanticipated, but within-scope, cost elements. This has been used to cover the increasing number of schedule and cost assessments of funding alternatives
  - Impact: Potential increase of \$471K.
- Reduction of general and technical support manpower
  - Impact: Reduced ability and/or longer turnaround in addressing out-of-scope technical issues. Impact can be minimized by freezing project scope and limiting excursion studies. A separate account ultimately will have to be set up for operations and for technical support of future technologies. Project reporting, beyond what has been put in place, may be significantly limited. Results in savings of approximately \$150K.
- Shifting of cost burdens to operations in FY98
  - Assume: Ongoing "Program Demonstrations" will be funded from separate operations budget
  - Impact: Assuming ongoing demonstrations are covered by separate budget element, there should not be an impact from this reduction. However, if funding is not available, there will be a significant impact on our ability to initiate demonstrations beyond start-up and activation for any of the systems. Results in savings of approximately \$325K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	169	862	822	805	448	3106
Management Reserve	0	0	138	132	129	72	471

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete Project Management Plan (Final)	1/95
Complete and Submit FYXX Plans	10/XX
Complete Project Validations	3/XX
Complete and Submit Monthly Reports	Monthly

**WBS Element:** 1.3.2 Project Control

**Task Description:** Project Control provides for the Project integration, configuration management, cost and schedule control, QA (see WBS 1.1.1), and administration of the CENRTC-funded systems. It develops and maintains the management systems used to monitor progress against the established baselines and to ensure configuration control (drawings, documents, etc.).

**Changes from Previous Baseline:** No significant changes in scope in this WBS element have occurred since PB Rev 1.0. The duration of the activity has been lengthened by 12 months to reflect the delayed Project completion date, and a bottom-up cost estimate was done, using new estimating worksheets. These essentially account for the increased cost estimate.

Since this element is largely level-of-effort, in direct support of ongoing project management, the full cost impact of the 12-month delay was felt. Where possible—largely in the QA task—durations of inspection and clerical support were adjusted to reflect only the necessary period of activity and to minimize cost. FTE levels were maintained at essentially the same values as for Rev 1.1. Other changes and items affecting cost are outlined below:

- Extended Project 12 months (at nominal \$500K/yr)
- Maintained a rampdown of Project Control during the “initial operation” period (last 5 months of project). This had already been incorporated into Rev 1.0.
- Deleted secretary for Project Control; integrated with WBS 1.3.1.
- Completed bottom-up estimate, based on new LLNL Accounting system (and the associated institutional rates) and using a new cost roll-up software (Primavera, versus AES).
- Management reserve had been maintained at 10% of remaining costs, in accordance with CDR estimates.

**Funding Profile (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	157	484	534	549	415	2138
Management Reserve	0	0	48	53	55	42	198

**Major Milestones**

Milestone	Date
Input to Conceptual Design Report	4/94 (complete)
Input to Project Preliminary Design Review	7/95
Input to Project Final Design Review	7/96
Input to annual <i>FYxx Plan</i>	Annually, Oct
Input to annual project <i>FYxx Validation</i>	Annually, Mar
QA Self-Assessment Document	Annually, Aug

**WBS Element:** 1.3.3 Technical Systems Integration

**Task Description:** Technical Systems Integration provides the oversight and performance studies intended to verify or document system integration performance, system analysis, special process diagnostics, and planning and analysis of the process aspects of integrated tests. It covers technical issues that affect all primary and support processes. It also includes the responsibility for ensuring that the system interfaces are addressed in the integrated design, including interfaces with LLNL HWM and facility engineering. The element coordinates the SDRs, the MWMF floor plan, and the Integrated Operating Plan.

**Changes from Previous Baseline:**

- Interface to facility construction liaison has been added to the scope of system integration due to MWMF/DWTF integration.
  - Impact: \$85K increase.
- An additional level of effort is required for the extra year of project stretch-out.
  - Impact: \$300K increase.
- Added management reserve
  - Impact: \$123K increase.

Total Estimated Increase: \$385K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	106	328	293	301	307	1334
Management Reserve	0	0	33	30	30	30	123

**WBS Element:** 1.4.1 Receiving and Shipping

**Task Description:** The principal objective of the Receiving and Shipping (RAS) system is to provide for receiving, logging, identification and characterization of all incoming waste containers and to determine the acceptability of processing the waste. The system also provides for the receipt of reagents and surrogate materials. Receiving and Shipping provides the management, system analysis and support, design (Title I, II, III) engineering, Title III inspection support, and acceptance test procedure (ATP) support. Receiving and Shipping includes both receiving and shipping equipment and systems integration.

**Changes from Previous Baseline:** The scope of this element has been reduced to reflect the integration of DWTF with HWM, which will be responsible for the receiving and shipping function for the integrated facility. Only funds for the local I&C functions required in Building 695 are now included.

**Description of Changes, Assumptions, and Impact**

- Delete equipment/procurement/installation from scope
  - Budget: \$120K reduction.
  - Basis: Delete relevant hardware and manpower.
  - Technical impact: Assumes that the MWMF uses available storage areas within current HWM facilities and that the MWMF can plan requisitions such that waste shipment will be received and removed directly into the MWMF with minimal staging.
  - Schedule impact: None.

Total Potential Estimate Reduction: \$120K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	30	160	82	84	14	370
Management Reserve	0	0	14	14	12	5	45

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete System Preliminary Design	7/95
Complete Final Design	7/96
Major Procurements Complete	12/96
Complete Installation and Testing	2/98

**WBS Element:** 1.4.2 Solids Feed Preparation

**Task Description:** The principal objective of the Solids Feed Preparation (SFP) system is to provide for the receipt, characterization, preparation for processing, and handling of homogeneous and heterogeneous solids received from storage and other processes in the facility. This includes segregating the incoming waste stream into combustible solids, heterogeneous solids, homogeneous inorganic solids and metals, and liquids not previously identified. SFP provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of SFP equipment, Title III inspection, and acceptance test procedures (ATP). SFP includes both solids feed preparation equipment and systems integration.

**Changes from Previous Baseline:** Combining common functions and areas of SFP with LFP has resulted in cost savings without affecting scope or schedule. Design improvements, using common areas, have reduced the number of vestibules and enclosures within SFP.

**Description of changes, assumptions, and impact**

- Delete vestibules/enclosures from scope
  - Budget: \$500K reduction.
  - Assume: Delete relevant hardware.
  - Technical impact: None.
  - Schedule impact: None.
- Delete MEO cellulose feed from scope
  - Budget: \$50K reduction.
  - Assume: Delete relevant hardware.
  - Technical impact: Fine cellulose will not be available for feed.
  - Schedule impact: None.

Total Potential Estimate Reduction: \$550K.

NOTE: This estimate does not include any possible *increases* in MWMF costs that might result from integration/consolidation of DWTF & MWMF functions into the MWMF SFP area. *Total* costs for DWTF and MWMF would *decrease*. This tradeoff is being included in MWMF and DWTF Title I work.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	158	962	1141	2560	500	5320
Management Reserve	0	0	179	160	228	39	606

**Major Milestones**

<b>Milestone</b>	<b>Date</b>
Complete Conceptual Design	4/94
KD-1	6/94
Complete System Preliminary Design	7/95
Complete Final Design	7/96
Major Procurements Complete	7/97
Complete Installation and Testing	3/98

**WBS Element:** 1.4.3 Liquids Feed Preparation

**Task Description:** The principal objective of the Liquids Feed Preparation (LFP) system is to provide for the receipt, characterization, preparation for processing, and handling of homogeneous and heterogeneous liquids and solids/liquids mixtures received from storage and other processes in the facility. This includes *processing* the incoming waste stream *by waste type* (i.e., aqueous with Trimsol, chlorinated organic liquids, oils, solvents and scintillation cocktails). LFP provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of LFP equipment, Title III inspection, and acceptance test procedures (ATP). LFP includes both liquids feed preparation equipment and systems integration.

**Changes from Previous Baseline:** The combination of common functions and areas of SFP with LFP has resulted in cost savings without affecting scope or schedule. Using common areas has reduced the number of vestibules and enclosures within LFP.

**Description of Changes, Assumptions, and Impact**

- Delete from the scope some vestibules/enclosures and liquid/solid separation equipment that are no longer needed
  - Budget: \$124K reduction.
  - Basis: Deletion of redundant hardware based upon current scope of input waste streams.
  - Technical impact: None.
  - Schedule impact: None.

Total Potential Estimate Reduction: \$124K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	143	287	423	775	261	1888
Management Reserve	0	0	42	69	59	11	181

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete System Preliminary Design	7/95
Complete Final Design	7/96
Major Procurements Complete	3/97
Complete Installation and Testing	3/98

**WBS Element:** 1.5.1 Mediated Electrochemical Oxidation

**Task Description:** The principal objective of Mediated Electrochemical Oxidation (MEO) is to receive appropriately characterized mixed waste streams, and completely convert the organic portions to CO<sub>2</sub> and water, to recycle acid and silver, and to remove ash containing the radioactive constituents. The MEO element provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, and installation of the MEO equipment, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities.

**Changes from Previous Baseline:** The following changes in the scope and schedule are assumed in developing the preliminary spending plan outlined below:

**Description of Changes, Assumptions, and Impact**

- Reduce the MEO maximum organic feed rate to 0.5 kg/hr, use the existing ICI FM 21 cell, and replace the FM-21 with a smaller FM-01 in FY95
  - Budget: \$731K reduction.
  - Assume: Delete purchase of hardware and assembly manpower.
  - Technical impact: FM-01 provides direct scale-up to the FM-21 and is easier to use in a laboratory situation.
  - Schedule impact: None.
- Delete cellulose feed to MEO
  - Budget: \$92K reduction.
  - Assume: Delete purchase of hardware and assembly manpower.
  - Technical impact: Deletes cellulose feed at start-up, but can be added later if desired.
  - Schedule impact: None.
- Add scientific support for engineering development and shared use of technicians during assembly and installation
  - Budget: \$133K increase.
  - Assume: Scheduled start-up at end of June 1998.
  - Technical impact: Allows bench-scale testing of Secondary Processes with additional scientific support.
  - Schedule impact: None, if assembly goes smoothly.

- Do sufficient scope work to allow addition of "hooks" for an MEO decontamination unit to be added to MWMF at a later date
    - Budget: \$50K increase.
    - Assume: E&D required and design time for equipment search, PFD and layout.
    - Technical impact: Will allow future addition of a decontamination unit to the MWMF to handle crushed vials, contaminated tools, and miscellaneous large solids.
    - Schedule impact: None, if completion is within the first 2 months of Title II.
- Total Potential Estimate Reduction: \$640K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	717	1050	924	1563	1143	5397
Management Reserve	0	0	50	150	640	470	1310

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94 (complete)
KD-1	6/94 (complete)
Complete System Preliminary Design	9/95
Complete Final Design	9/96
Major Procurements Complete	12/97
Complete Installation and Testing	9/98

**WBS Element:** 1.5.2 Molten Salt Oxidation

**Task Description:** The principal objectives of Molten Salt Oxidation (MSO) are to receive appropriately characterized mixed waste streams and completely convert the organic portions to CO<sub>2</sub> and water, to remove ash containing the radioactive constituents, and to recycle/process the spent salt. The MSO element provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, and installation of the MSO equipment, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities.

**Changes from Previous Baseline:****Description of changes, assumptions, and impact**

- Construct multiple modular primary units using smaller less costly vessels
  - Budget: \$300K reduction.
  - Assume: Two or three intermediate-size vessels with associated structure and peripherals will result in an approximate reduction of 33% in hardware procurements. The engineering costs will remain the same. There may be some additional savings in staging and installation due to the modular (easier-to-handle) equipment.
  - Technical impact: Could limit scalability to larger units without an interim prototype. Total throughput may be less, depending on the number of modules constructed.
  - Schedule impact: None.
- Reduce Salt Recycle capacity
  - Budget: \$171K reduction.
  - Assume: Better operating cycle efficiency due to more but smaller batches of salt from multiple vessels. Savings will be about 25%. Greater savings will not be realized because new data dictate that Salt Recycle handle a greater fraction of carbonate salt.
  - Technical impact: None. All Salt Recycle components are still required.
  - Schedule impact: None.
- Reduce Primary Unit Title-III support
  - Budget: \$35K reduction.
  - Assume: Multiple smaller units will require less support because there will be less custom and large assemblies. Assume 10% reduction.
  - Technical impact: None. All components are still required, but they are smaller, simpler, and more commercially available.
  - Schedule impact: None.
- Reduce Salt Recycle Title-III support
  - Budget: \$22K reduction.
  - Assume: Salt Recycle components scale will be reduced, requiring less custom equipment, hence less support. Assume 10% reduction.
  - Technical impact: None. All components are still required, but they are smaller, simpler, and more commercially available.

- Schedule impact: None.
  - Reduce hot standby fuel system size
    - Budget: \$5K reduction.
    - Assume: Electric heaters will provide heat for standby. Small system may still be required for backup.
    - Technical impact: None.
    - Schedule impact: None.
- Total Potential Estimate Reduction: \$533K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	438	2426	2184	2003	679	7729
Management Reserve	0	0	607	480	400	136	1623

**Major Milestones**

Milestone	Date
Complete Design Specification	Dec 94
Conduct Industrial Partner meeting	Dec 94
Start Title II design	Jul 95
Start long lead procurements	Dec 95
Start Title III	Jul 96
Start installation in MWMF	Jul 97
MSO system complete	May 98

**WBS Element:** 1.5.3 Wet Oxidation

**Task Description:** The principal objective of Wet Oxidation (WOX) is to demonstrate treatment of organic mixed wastes using a wet oxidation process to convert the organic portions to CO<sub>2</sub>, water, and inorganic ions, leaving ash, salts, metals, and radionuclides in a residual solution/slurry. The WOX element provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, and installation of the WOX equipment, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities.

**Changes from Previous Baseline:** This activity has been closed out. No further activities are planned.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	98	0	0	0	0	98
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

	Milestone	Date
No activity		

**WBS Element:** 1.5.4 UV Photolysis

**Task Description:** The principal objective of UV Photolysis (UVP) is to demonstrate ultraviolet-driven treatment of the hazardous and toxic organic constituents in the condensate from the Wet Oxidation process (WBS 1.5.3) to produce a sewerable water stream. The UVP element provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, and installation of the UVP equipment, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities.

**Changes from Previous Baseline:** This activity has been closed out. No further activity is planned.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	24	0	0	0	0	24
Management Reserve	0	0	0	0	0	0	0

**Major Milestones**

	Milestone	Date
	No activity	

**WBS Element:** 1.5.5 Experimental Off-Gas

**Task Description:** The principal objective of the Experimental Off-Gas Treatment (XOG) is to demonstrate advanced, more effective off-gas treatment technologies that minimize secondary waste. These are acidic urea DeNO<sub>x</sub> scrubbing and advanced metal filters. The second objective is to demonstrate feasibility and effectiveness of off-gas treatment at or near the source of the gas where the treatment can be tailored to that specific source. The XOG element provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, and installation of XOG equipment, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities. The XOG will be backed by the Facility off-gas system.

**Changes from Previous Baseline:** The following changes in the scope and schedule are assumed in developing the preliminary spending plan outlined below:

**Description of Changes, Assumptions, and Impact**

- Delete selective Catalytic Reduction (SCR) of NO<sub>x</sub> from the scope of XOG
  - Budget: \$731K reduction.
  - Technical impact: SCR will not be demonstrated in initial MWMF operations.
  - Schedule impact: None.
- Defer advanced metal filters to 1998
  - Budget: No reduction.
  - Technical impact: None.
  - Schedule impact: None.

Total Estimate Reduction: \$275K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	108	158	0	0	150	416
Management Reserve	0	0	29	0	0	28	57

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94 (complete)
KD-1	6/94 (complete)
Complete Installation and Testing	6/98

**WBS Element:** 1.6.1 Process Transport and Storage

**Task Description:** The principal objective of the Process Transport and Storage (PTS) system is to collect, transfer, deposit, store, and handle containers, discrete items, dry and wet bulk materials, slurries, and liquids. PTS provides management, system analysis and support, design (Title I, II, and III) engineering, procurement, installation of Process Support Systems equipment, Title III inspection, and acceptance test procedures (ATP). PTS includes both PTS equipment and systems integration.

**Changes from Previous Baseline:** All piping to Water Treatment is removed to fit new Water Treatment plan. Portable tanks are added from Water Treatment. The bagless transfer interface is expanded to meet all process needs, and additional batch hardware is included. Staging is removed due to schedule relaxation. Fork trucks are removed and will be leased or provided through HWM interface. I&C is simplified and reduced to account for fewer stations and simpler control.

**Description of Changes, Assumptions, and Impact**

- Delete bulk transport of liquids and shift to batch transport only
  - Budget: \$154K reduction.
  - Assume: Delete piping and valving to Water Treatment.
  - Technical impact: Insignificant.
  - Schedule impact: None.
- Delete fork trucks
  - Budget: \$50K reduction.
  - Assume: Fork trucks will be leased, or HWM will provide service using HWM equipment.
  - Technical impact: None.
  - Schedule impact: None to minor.
  - Recommend this change.
- Reduce I&C due to scope changes
  - Budget: \$46K reduction.
  - Basis: Reduced number of stations. Complexity reduced after most of valving is removed.
  - Technical impact: None.
  - Schedule impact: None.
- Delete staging
  - Budget: \$65K reduction.
  - Basis: Schedule no longer requires staging to meet installation deadlines.
  - Technical impact: None.
  - Schedule impact: Minor schedule risk if integration lags.
- Move portable tanks from Water Treatment to PTS
  - Budget: \$150K increase.
  - Basis: PTS is handling all other batch moves.
  - Technical impact: None.
  - Schedule impact: None.

- Bagless transfer
  - Budget: \$90K increase.
  - Basis: Interface design remains the same as CDR. Additional interface hardware for all pick-up/drop-off locations.
  - Technical impact: None.
  - Schedule impact: None.

Total Potential Estimate Reduction: \$225K (PTS) - \$150K (tanks from WT) = \$75K

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	26	95	200	309	37	666
Management Reserve	0	0	14	26	46	13	99

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete System Preliminary Design	7/95
Complete Final Design	7/96
Major Procurements Complete	8/97
Complete Installation and Testing	12/97

**WBS Element:** 1.6.2 Analytical Services

**Task Description:** The principal objective of Analytical Services is to provide chemical analysis support for process control and characterization, material control, and regulatory requirements. Analytical Services provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of chemical analysis equipment, Title III inspection, and acceptance test procedures (ATP). Analytical Services includes Sample Management, Analytical Laboratory Equipment, Local Process I&C, External Contracts, and Process Off-Gas.

**Changes from Previous Baseline:** MWMF will be lead in this area. This function has been modified to provide process support to the DWTF as well as the MWMF. On the basis of historical data, a minimum increase in sample load of approximately 1000 samples/year (3000 analyses/year) is expected as a result of this modification. Critical process support (defined as chemical characterization required within the typical workday that cannot be contracted to existing analytical laboratories effectively) will be provided within the facility. All other chemical analysis and characterization needs will be provided at other facilities, either within the LLNL site or at off-site facilities, as described previously in the preliminary CDR and SDR. *(NOTE: This is NOT a change from previous project baseline/scope/plan).* Sample management (defined as tracking of samples and analysis results, assistance with sampling, sample receiving, handling, storage, and transport for analysis) will be provided within the facility. Changes have been made to sample management database development.

**Description of Changes, Assumptions, and Impact**

- Increase scope to accommodate merging of MWMF/DWTF functions
  - Budget: \$349K increase.
  - Basis: Additional labor required to integrate additional functions and equipment required for DWTF.
  - Technical impact: Increased throughput and types of analytical samples required for handling, disposition, and documentation.
  - Schedule impact: None. Implementation after MWMF/DWTF merge.
- Defer sample management database development to operational phase.
  - Budget: \$125K reduction.
  - Basis: Delay on-line results portion of sample management database to operational phase of MWMF/DWTF.
  - Technical impact: Primary processes will not receive analysis results on-line, but will receive hard-copy (paper) analysis information. May delay availability of analysis information to process operators by 24 hours or more. Delay of this element until occupancy and operation will require an additional 1-2 years before chemical analysis data becomes available on-line.
  - Schedule impact: None. Implementation after MWMF/DWTF occupancy and start-up will result in increased operational costs (approximately \$150-200K/year increase for 2 years) due to increased manpower costs and time required to complete development.

Total Estimated Increase: \$349K - \$125K = \$224K.

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan (\$K)	0	36	160	349	622	450	1616
Management Reserve	0	0	31	53	121	86	291

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
Complete System Preliminary Design	8/95
Complete Final Design	9/96
Major Procurements Complete	9/97
Complete Installation and Testing	5/98
Complete Sample Management Database System	9/99

**WBS Element:** 1.6.3 Water Treatment

**Task Description:** Water Treatment is an integral part of treatment train demonstrations, continuing treatment of aqueous byproducts as part of demonstration tests to produce solid residuals suitable for Final Forms and fully treated water that meets treatment standards and sewer limits. The Water Treatment element provides the management, system analysis and support, design and engineering (Title I, II, III), procurement, and installation of the water-treatment equipment necessary to demonstrate treatment trains, Title III inspection, and acceptance test procedures (ATP) covering both equipment and system integration activities.

**Changes from Previous Baseline:** A Water Treatment trade-off study was recently completed in which the merging and collocating of the MWMF and DWTF were addressed. In this trade study, the waste water was categorized as *of demonstration interest* or *not of demonstration interest*. The recommended Water Treatment system at the MWMF will treat most of the *demonstration interest water* and send the *not of demonstration interest water* to HWM for treatment in HWM's equipment available in FY97. Responsibility for engineering, design, and acquisition for the MWMF Water Treatment system has been assigned to HWM, under MWMF direction as defined in the Water Treatment Memorandum of Understanding.

**Description of Changes, Assumptions, and Impact**

- Delete water storage and retention tanks from MWMF Water Treatment system
  - Budget: \$340K reduction.
  - Assume: HWM provides retention tanks and manages sewer releases.
  - Technical impact: Limits batch sizes that can be treated and limits scheduling of treatment.
  - Schedule impact: None.
- Downsize Water Treatment equipment
  - Budget: \$215K reduction.
  - Assume: Not necessary to treat water without demonstration interest.
  - Technical impact: Limits the maximum batch size that can be processed. Aqueous streams without demonstration interest are treated by HWM in a manner not fully traceable.
  - Schedule impact: None to minor.
- Add portable water containers for moving water within the MWMF
  - Budget: \$150K increase in PTS.
  - Assume: Storage of water not required.
  - Technical impact: Limits the maximum batch size that can be processed.
  - Schedule impact: None to minor.

Total Water Treatment Reduction:  $\$340 + \$215 = \$555\text{K}$ .

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan (\$K)	0	32	121	153	360	299	964
Management Reserve	0	0	30	37	87	76	230

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	2/95
Complete System Preliminary Design	6/95
Complete Final Design	5/96
Major Procurements Complete	1/98
Complete Installation and Testing	5/98

**WBS Element:** 1.6.4 Final Forms

**Task Description:** The Final Forms task is to immobilize the residues from the treatment of the mixed-waste input streams by the primary processes and residue resulting from secondary support processes that are integral to the primary treatment processes. The final form types are (1) ceramics for mineral residues, and (2) polymer microencapsulation for salt.

**Changes from Previous Baseline:** The scope of work for designing the polymer microencapsulation system, to be used for salt immobilization, has increased. The Conceptual Design called for the use of a cast thermosetting polymer, with the work to be done in-house by an external subcontractor on an occasional basis (roughly annually). By Rev 1 it had been recognized that encapsulation would have to be done more frequently and should therefore be done by LLNL personnel. This increased costs. The proposed PB Rev 1.2 maintains the choice of a cast thermosetting polymer, but with extruded polyethylene as a backup. Extruded polyethylene is considered a lower technical risk, but involves higher capital equipment costs. The cost increase associated with maintaining the engineering expertise to exercise the backup option is modest.

**Description of Changes, Assumptions, and Impact**

- Modify selection and development of the polymer microencapsulation system to be used for salt immobilization. The baseline is thermosetting polymer, with extruded polyethylene as a backup
  - Budget: \$150K increase.
  - Assume: It is necessary to have a backup because the risk of failure of cast thermosetting polymer microencapsulation is high.
  - Technical impact: Additional design work necessary.
  - Schedule impact: None.
  - Extruded polyethylene, if required later, will cost an additional \$300K. (Included in management reserve.)
- Delete sulfur-polymer microencapsulation of volatile inorganic solids
  - Budget: \$200K reduction.
  - Assume: Delete development manpower and minor equipment for a reduction of \$100K. Eliminate simple extrusion system and associated development costs for an additional \$100K reduction.
  - Technical impact: Minor, because quantities of volatile inorganic solids in LLNL low-level mixed-waste streams are very low. Could be added during operations.
  - Schedule impact: None.
- Reduce engineering development and design of waste-form materials, processes, and minor ancillary equipment
  - Budget: \$300K reduction.
  - Technical impact: Increased risk of occasional operational difficulties.
  - Schedule impact: None.

Total Potential Estimate Increase:  $\$150K - \$200K + \$300K = \$250K$ .

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	367	374	534	493	269	2073
Management Reserve	0	0	40	45	300	49	434

**Major Milestones**

Milestone	Date
Complete Conceptual Design 4/94 KD-1	6/94
Complete System Preliminary Design	9/95
Complete Final Design	9/96
Major Procurements Complete	12/97
Complete Installation and Testing	4/98

**WBS Element:** 1.6.5 Supervisory Instrumentation and Control

**Task Description:** Supervisory Instrumentation and Control (SI&C) systems will be provided and integrated to demonstrate, test, and evaluate mixed-waste destruction technologies in a safe, environmentally acceptable, reliable, and cost-effective manner. I&C systems provide the management, system analysis and support, design (Title I, II, III) engineering, procurement, equipment installation, Title III inspection, and acceptance test procedures (ATP) covering equipment and system integration activities for facility database management, safety control, process I&C standards, supervisory control, and ancillary systems and equipment, including the instrumentation and equipment database, intercom communication, process and surveillance CCTV, cable and power distribution and grounding, and control room facilities.

**Changes from Previous Baseline:** SI&C will assume additional scope as part of the integration activities planned for the MWMF and DWTF. The extent of this increase, while not expected to be significant, is not well known at this time and will be determined as part of Preliminary Design.

To meet the extended schedule and funding guidance, SI&C has made the following changes:

- Stage and System Assembly (WBS 1.6.5.5)
  - Budget: \$56.0K reduction.
  - Assume: Eliminate all Stage & System Assembly activities.
  - Technical impact: Integration issues during final assembly are likely and anticipated, but no serious issues are expected due to appropriate/adequate Engineering Development assessment activities.
  - Schedule impact: Potential delay in SI&C activation. Impact to the many individual local process I&C systems possible.
- Inventory Tracking System/Facility Database Management System (WBS 1.6.5.1)
  - Budget: \$216.1K moved to management reserve.
  - Assume: LLNL/HWM's Total Waste Manage Management System (TWMS) will meet MWMF inventory tracking (regulatory compliance) requirements.
  - Technical impact: Design/implementation of TWMS is tailored to existing HWM operational procedures. Applying TWMS without some restructuring may dictate inefficient operational procedures in the MWMF. This change will be evaluated during Preliminary Design. Long-term/continuing MWMF operating costs will be considered.
  - Schedule impact: None

**Funding Profile: (BO/spending profiles, unescalated, \$K)**

	FY93	FY94	FY95	FY96	FY97	FY98	TOTAL
Cost Plan	0	477	515	488	705	424	2608
Management Reserve	0	0	113	161	262	148	685

**Major Milestones**

Milestone	Date
Complete Conceptual Design	4/94
KD-1	6/94
SI&C integrated control system design Peer Review	3/95
SI&C System Preliminary Design Review	6/95
Complete System Preliminary Design	6/95
Complete Final Design	7/96
Major Procurements Complete	8/97
Complete Installation and Testing	10/98

## Section 6.0 Cost Summary Reports

This section is intended mainly for reference, and so for usability has page numbers independent of the previous sections.

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## 6.0 Cost and Resource Summary Reports

## 6.1 Cost Summary Reports

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

### **6.1.1 Overall Project Costs**

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 12APR95 RUN NO. 571  
14:29

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

TOTAL DOLLAR PROFILE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -						
1JUL94	108053.28	840094.59	.00	.00	.00	.00
1AUG94	172038.73	1012133.33	.00	.00	.00	.00
1SEP94	6997341.00	8009474.33	.00	.00	.00	.00
***DATA DATE***						
1OCT94	678284.81	8687759.14	.00	.00	.00	.00
1NOV94	663170.00	9350929.14	.00	.00	.00	.00
1DEC94	690062.00	10040991.14	.00	.00	.00	.00
1JAN95	753309.56	10794300.70	.00	.00	.00	.00
1FEB95	728130.50	11522431.20	.00	.00	.00	.00
1MAR95	846917.00	12369348.20	.00	.00	.00	.00
1APR95	775744.13	13145092.33	.00	.00	.00	.00
1MAY95	869302.75	14014395.08	.00	.00	.00	.00
1JUN95	761426.50	14775821.58	.00	.00	.00	.00
1JUL95	682024.25	15457845.83	.00	.00	.00	.00
1AUG95	856897.81	16314743.64	.00	.00	.00	.00
1SEP95	706550.75	17021294.39	.00	.00	.00	.00
1OCT95	783052.31	17804346.70	.00	.00	.00	.00
1NOV95	674500.25	18478846.95	.00	.00	.00	.00
1DEC95	592975.31	19071822.27	.00	.00	.00	.00
1JAN96	616035.00	19687857.27	.00	.00	.00	.00
1FEB96	622255.75	20310113.02	.00	.00	.00	.00
1MAR96	716152.00	21026265.02	.00	.00	.00	.00
1APR96	731693.13	21757958.14	.00	.00	.00	.00
1MAY96	737346.88	22495305.02	.00	.00	.00	.00
1JUN96	685583.94	23180888.95	.00	.00	.00	.00
1JUL96	1068119.88	24249008.83	.00	.00	.00	.00
1AUG96	1110602.38	25359611.20	.00	.00	.00	.00
1SEP96	988693.38	26348304.58	.00	.00	.00	.00
1OCT96	1150631.38	27498935.95	.00	.00	.00	.00
1NOV96	995601.06	28494537.02	.00	.00	.00	.00
1DEC96	1049636.88	29544173.89	.00	.00	.00	.00
1JAN97	1275303.88	30819477.77	.00	.00	.00	.00
1FEB97	1018015.31	31837493.08	.00	.00	.00	.00
1MAR97	1019698.31	32857191.39	.00	.00	.00	.00
1APR97	1014967.50	33872158.89	.00	.00	.00	.00
1MAY97	1133535.38	35005694.27	.00	.00	.00	.00
1JUN97	1104829.50	36110523.77	.00	.00	.00	.00
1JUL97	1314206.75	37424730.52	.00	.00	.00	.00
1AUG97	1213912.25	38638642.77	.00	.00	.00	.00
1SEP97	1218441.00	39857083.77	.00	.00	.00	.00
1OCT97	1315593.50	41172677.27	.00	.00	.00	.00
1NOV97	1058196.88	42230874.14	.00	.00	.00	.00
1DEC97	1188065.00	43418939.14	.00	.00	.00	.00
1JAN98	1172229.00	44591168.14	.00	.00	.00	.00
1FEB98	1075199.38	45666367.52	.00	.00	.00	.00
1MAR98	1171755.38	46838122.89	.00	.00	.00	.00
1APR98	858535.50	47696658.39	.00	.00	.00	.00
1MAY98	461793.41	48158451.80	.00	.00	.00	.00
1JUN98	480659.47	48639111.27	.00	.00	.00	.00
1JUL98	408712.78	49047824.05	.00	.00	.00	.00
1AUG98	373172.59	49420996.64	.00	.00	.00	.00
1SEP98	390942.66	49811939.30	.00	.00	.00	.00
1OCT98	.00	49811939.30	.00	.00	.00	.00
1NOV98	.00	49811939.30	.00	.00	.00	.00
1DEC98	.00	49811939.30	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 701  
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COST LOADING REPORT

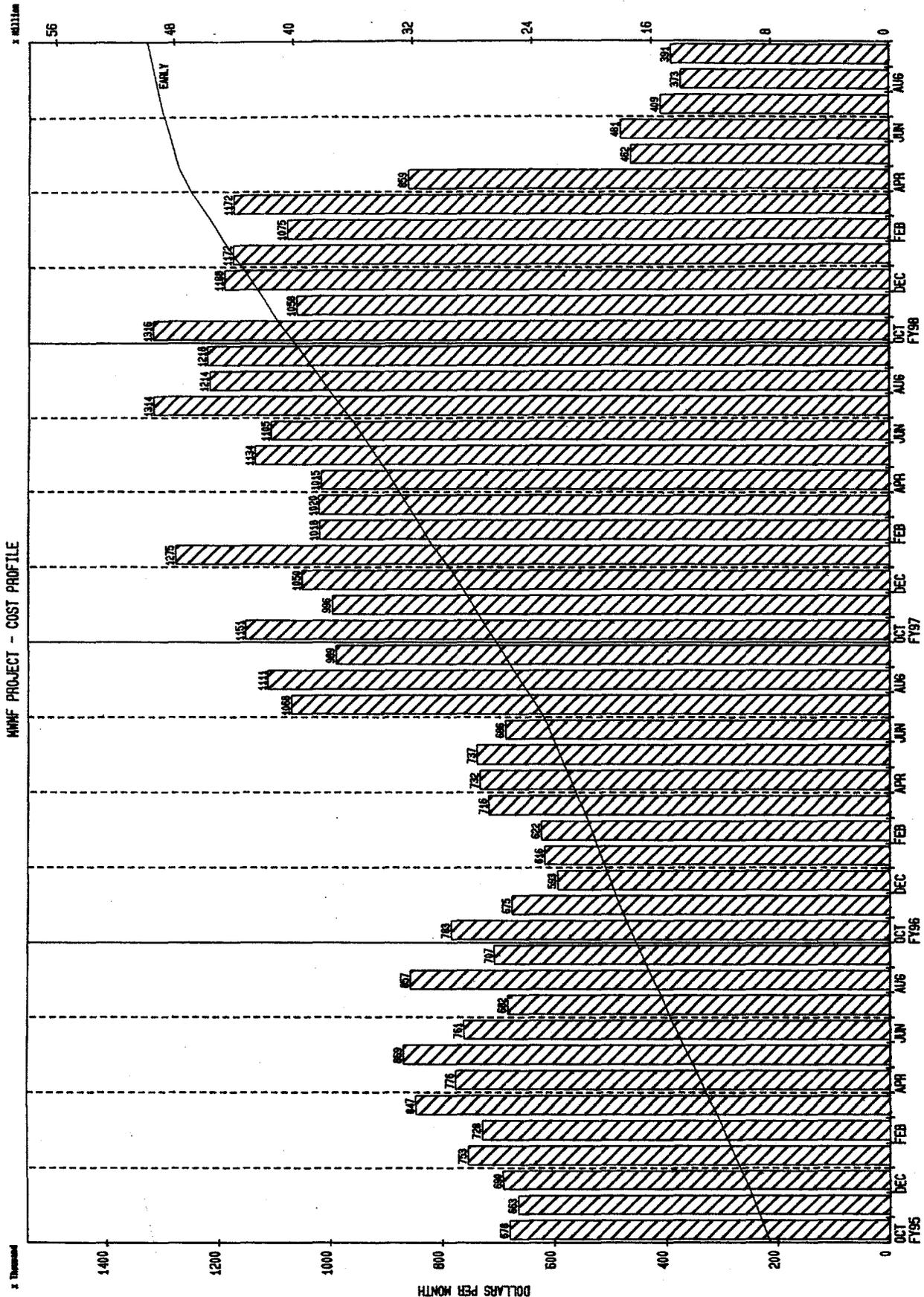
START DATE 01JUN93 FIN DATE 02OCT98

DATA DATE 01OCT94 PAGE NO. 1

MWMF - COST LOADING - TOTAL BY FISCAL YEAR

TOTAL USAGE FOR YEAR

RESOURCE	RESOURCE DESCRIPTION	FY 1995	FY 1996	FY 1997	FY 1998	TOTAL
AI	ADMIN EXEMPT	157811.3	166260.0	153617.7	49064.6	526753.7
AI 0	ADMIN EXEMPT - OPEX	27750.2	35704.5	112296.7	104425.4	280176.8
AM	CLERICAL SUPPT	45855.3	41539.3	28941.2	24415.8	140751.7
AM 0	CLERICAL SUPPT-OPEX			6282.4	15077.7	21360.0
BM	BOILER MAKER		12189.7	60193.3	6677.9	79060.9
C	CARPENTRY			1416.0	2218.4	3634.4
CE	CHEMICAL ENGR	468951.1	303614.0	187262.0	260387.9	1220215.0
CE 0	CHEMICAL ENGR - OPEX	21927.7	61455.0	65506.1	98024.3	246913.0
CP	COMPUTER PROGRAMMER	5018.5	4894.1	5031.7	5129.9	20074.2
CS	COMPUTER SCIENT	128551.0	219505.0	164353.2	117390.3	629799.4
CS 0	COMP SCIENT - OPEX			37987.1	59826.7	97813.8
CT	COMPUTER TECH	14901.9	9650.7	67909.0	61914.0	154375.5
CT 0	COMPUTER TECH - OPEX			12764.4	60843.8	73608.2
CTD-L3 0	COSTS TO DATE - OPEX					
CTD-LIII	COSTS TO DATE-CENRTC					
E	ELEC WORK	18402.3	44268.3	276923.9	173625.2	513219.7
EA	ELEC ASSOC	60055.0	62627.6	54623.8	28394.4	205700.8
EA 0	ELEC ASSOC - OPEX			150014.1	210062.0	360076.1
EC	ELEC COORD	11621.5	26532.0	58955.0	37561.5	134669.9
EC 0	ELEC COORD - OPEX			19796.5	64503.7	84300.2
ED	ELEC DESIGNER	120873.9	108311.3	70544.9	39656.6	339386.6
ED 0	ELEC DESIGNER - OPEX				5655.8	5655.8
EE	ELEC ENGR	655575.7	575013.5	472422.0	400363.4	2103374.5
EE 0	ELEC ENGR - OPEX			47697.2	79294.1	126991.3
EI	ELEC INSP		1297.9	19427.5	11020.2	31745.6
EP 0	ENGR-PLANT - OPEX			55984.3	109636.0	165620.3
ET	ELEC TECH	37158.5	19943.9	100893.6	108432.5	266428.5
ET 0	ELEC TECH - OPEX			15462.1	161321.1	176783.2
EXP 0	MISC EXP - OPEX	227471.3	266378.3	573665.1	1178040.4	2245555.0
EXPENSES	MISC EXP - CENRTC	468900.4	407356.8	341254.1	274196.7	1491708.0
FT	ELEC FAB TECH	13983.2	13193.0	54994.7	59650.8	141821.6
L	LABORER	2481.2	6577.7	70968.9	35057.6	115085.3
MA	MECH ASSOC	39625.4	39785.2	40903.7	15618.5	135932.8
MA 0	MECH ASSOC - OPEX	16355.1	30270.1	195979.8	280026.2	522631.3
MC	MECH COORD	82177.1	125507.2	127467.2	51248.1	386399.7
MC 0	MECH COORD - OPEX			19796.5	99911.8	119708.3
MD	MECH DESIGNER	654793.9	342411.0	113133.3	57828.1	1168166.4
MD 0	MECH DESIGNER - OPEX				32265.4	32265.4
ME	MECH ENGR	1295644.8	906606.8	634592.8	374561.1	3211405.5
ME 0	MECH ENGR - OPEX	90171.2	110385.8	156454.5	342730.6	699742.0
MI	MECH INSP		8385.1	52512.5	15394.1	76291.7
MT	MECH TECH	202407.7	129141.8	516481.3	303144.8	1151175.5
MT 0	MECH TECH - OPEX			15462.1	353517.4	368979.5
MW	MILLWRIGHT	2540.9	11674.6	115101.4	108515.9	237832.9
OE	OPS ENG L13	169711.3	91767.5	46860.0		308338.8
OE 0	OPS ENG L13 - OPEX	214874.3	214711.1	462530.9	510994.0	1403110.3
OT 0	OPS TECH L10 - OPEX			27377.2	35600.5	62977.6
P	PAINT WORK		2595.3	40008.5	31016.6	73620.5
PE	PROGRAM ENGR	38452.8	38952.4	40047.4	28347.6	145800.2
PF	PIPE FITTING	6538.9	18977.0	290410.3	222378.9	538305.1
PG	PROJECT MGMT	332485.0	334716.7	331129.7	176661.1	1174992.5
PG 0	PROJECT MGMT - OPEX	96323.7	96712.1	121236.9	59148.1	373420.8
PROC 0	PROC DOLLARS - OPEX	48639.7	53362.1	197529.3	482868.9	782400.0
PROCURE	PROC DOLLARS-CENRTC	2627632.8	3854818.0	6100435.5	1891875.3	14474761.0
QE	QUALITY ENGR	60231.6	88568.9	91058.8	62302.6	302161.9
QE 0	QUALITY ENGR - OPEX	33324.0	33756.9	38205.0	52003.4	157289.3
SC	SCIENT CHEMIST	327642.9	259014.9	239510.1	182635.6	1008803.6
SC 0	SCIENT CHEM - OPEX	19339.0	19417.0	19962.9	138562.7	197281.6
SM	SHEET METAL WORKER	3242.3	3680.4	53566.2	58177.5	118666.4
TC	CHEM TECH	162375.7	125479.8	133837.1	117388.3	539080.9
TC 0	CHEM TECH - OPEX				28262.4	28262.4
REPORT TOTAL		9011821.0	9327011.0	13508779.0	9954853.0	41802464.0



MONTH

MIXED WASTE MANAGEMENT FACILITY  
FOR REVIEW & COMMENT ONLY  
MMMF DOLLAR PROFILE

Sheet 1 of 1

Project Name	Agency	Fiscal Year	Month	Quarter

(c) Performance Systems, Inc.

## **6.1.2 Project Procurements**

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 13APR95 RUN NO. 773  
15:02

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

TOTAL PROCUREMENTS - OPEX

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROC	O - PROC DOLLARS - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	3724.43	3724.43	.00	.00	.00	.00
1NOV94	3547.07	7271.50	.00	.00	.00	.00
1DEC94	3369.72	10641.22	.00	.00	.00	.00
1JAN95	3547.07	14188.30	.00	.00	.00	.00
1FEB95	3369.72	17558.02	.00	.00	.00	.00
1MAR95	4079.14	21637.15	.00	.00	.00	.00
1APR95	4071.81	25708.96	.00	.00	.00	.00
1MAY95	4714.73	30423.69	.00	.00	.00	.00
1JUN95	4714.73	35138.41	.00	.00	.00	.00
1JUL95	4286.11	39424.52	.00	.00	.00	.00
1AUG95	4929.03	44353.55	.00	.00	.00	.00
1SEP95	4286.11	48639.67	.00	.00	.00	.00
1OCT95	4714.73	53354.39	.00	.00	.00	.00
1NOV95	4286.11	57640.51	.00	.00	.00	.00
1DEC95	4071.81	61712.32	.00	.00	.00	.00
1JAN96	4286.11	65998.43	.00	.00	.00	.00
1FEB96	4286.11	70284.54	.00	.00	.00	.00
1MAR96	4500.42	74784.96	.00	.00	.00	.00
1APR96	4500.42	79285.38	.00	.00	.00	.00
1MAY96	4714.73	84000.11	.00	.00	.00	.00
1JUN96	4286.11	88286.22	.00	.00	.00	.00
1JUL96	4714.73	93000.95	.00	.00	.00	.00
1AUG96	4714.73	97715.67	.00	.00	.00	.00
1SEP96	4286.11	102001.78	.00	.00	.00	.00
1OCT96	4929.03	106930.82	.00	.00	.00	.00
1NOV96	4071.81	111002.62	.00	.00	.00	.00
1DEC96	4071.81	115074.43	.00	.00	.00	.00
1JAN97	4929.03	120003.46	.00	.00	.00	.00
1FEB97	4286.11	124289.58	.00	.00	.00	.00
1MAR97	9731.40	134020.98	.00	.00	.00	.00
1APR97	14798.82	148819.80	.00	.00	.00	.00
1MAY97	14798.82	163618.61	.00	.00	.00	.00
1JUN97	14126.14	177744.75	.00	.00	.00	.00
1JUL97	38136.91	215881.66	.00	.00	.00	.00
1AUG97	40852.05	256733.71	.00	.00	.00	.00
1SEP97	42797.39	299531.10	.00	.00	.00	.00
1OCT97	46711.56	346242.66	.00	.00	.00	.00
1NOV97	40618.75	386861.41	.00	.00	.00	.00
1DEC97	40105.75	426967.16	.00	.00	.00	.00
1JAN98	54204.84	481172.01	.00	.00	.00	.00
1FEB98	50519.55	531691.56	.00	.00	.00	.00
1MAR98	55571.51	587263.07	.00	.00	.00	.00
1APR98	53697.05	640960.13	.00	.00	.00	.00
1MAY98	43071.41	684031.54	.00	.00	.00	.00
1JUN98	45122.44	729153.98	.00	.00	.00	.00
1JUL98	18555.44	747709.41	.00	.00	.00	.00
1AUG98	16941.92	764651.33	.00	.00	.00	.00
1SEP98	17748.68	782400.01	.00	.00	.00	.00
1OCT98	.00	782400.01	.00	.00	.00	.00
1NOV98	.00	782400.01	.00	.00	.00	.00
1DEC98	.00	782400.01	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 772  
15:01

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

TOTAL PROCUREMENTS - CENRTC

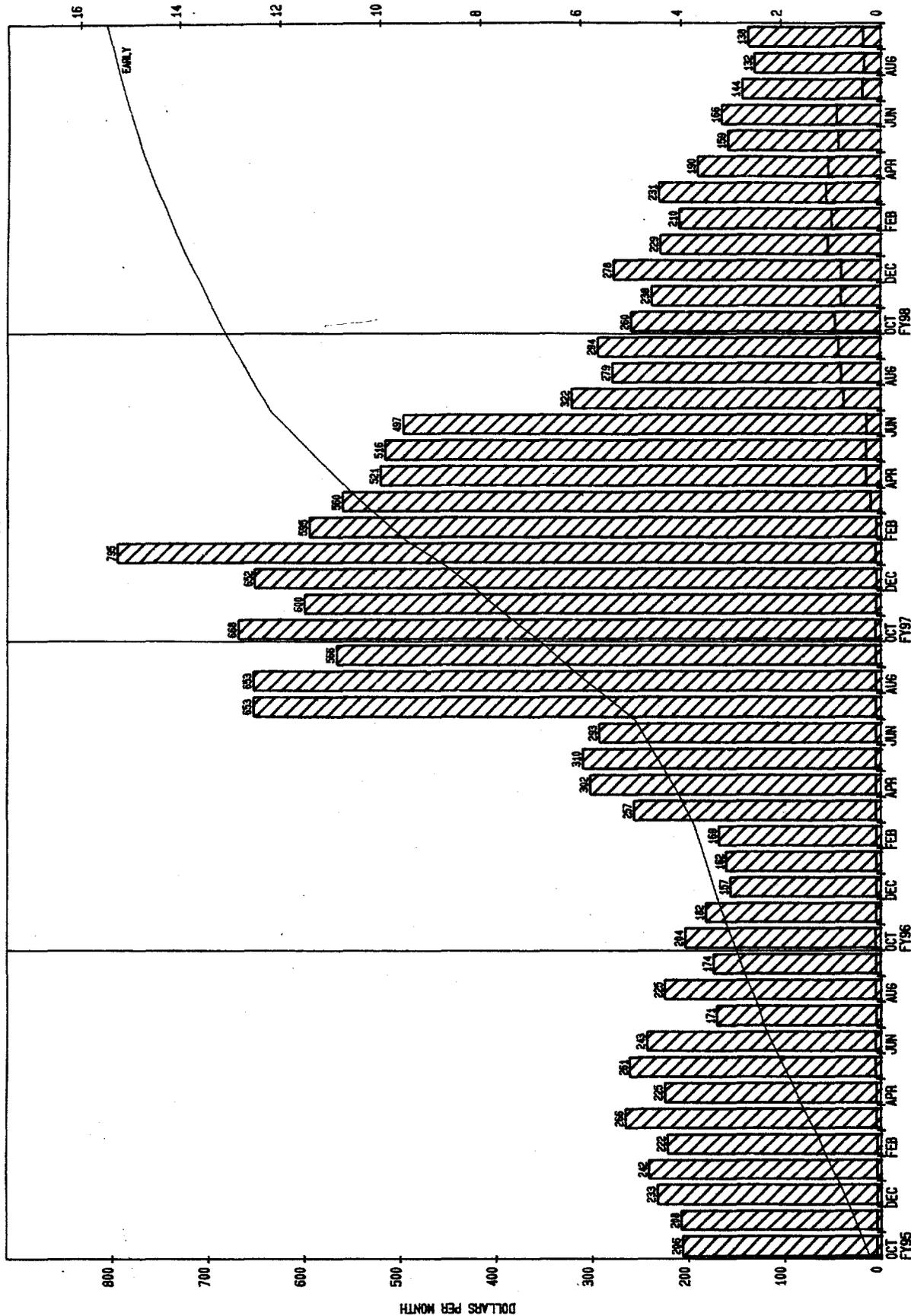
DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROC DOLLARS-CENRTC		UNIT OF MEASURE = COST			
1JUL94	35228.52	126004.88	.00	.00	.00	.00
1AUG94	45485.30	171490.18	.00	.00	.00	.00
1SEP94	40292.09	211782.27	.00	.00	.00	.00
***DATA DATE***						
1OCT94	202646.09	414428.36	.00	.00	.00	.00
1NOV94	204434.39	618862.75	.00	.00	.00	.00
1DEC94	229218.52	848081.27	.00	.00	.00	.00
1JAN95	238151.98	1086233.25	.00	.00	.00	.00
1FEB95	219006.16	1305239.41	.00	.00	.00	.00
1MAR95	261455.05	1566694.46	.00	.00	.00	.00
1APR95	220896.23	1787590.69	.00	.00	.00	.00
1MAY95	256519.31	2044110.00	.00	.00	.00	.00
1JUN95	238582.86	2282692.86	.00	.00	.00	.00
1JUL95	166427.36	2449120.22	.00	.00	.00	.00
1AUG95	220534.42	2669654.64	.00	.00	.00	.00
1SEP95	169760.38	2839415.02	.00	.00	.00	.00
1OCT95	199170.92	3038585.94	.00	.00	.00	.00
1NOV95	178059.22	3216645.16	.00	.00	.00	.00
1DEC95	152872.80	3369517.96	.00	.00	.00	.00
1JAN96	157219.86	3526737.82	.00	.00	.00	.00
1FEB96	164671.66	3691409.47	.00	.00	.00	.00
1MAR96	252510.80	3943920.27	.00	.00	.00	.00
1APR96	297765.63	4241685.89	.00	.00	.00	.00
1MAY96	305416.47	4547102.36	.00	.00	.00	.00
1JUN96	288766.00	4835868.36	.00	.00	.00	.00
1JUL96	648409.19	5484277.55	.00	.00	.00	.00
1AUG96	648409.19	6132686.74	.00	.00	.00	.00
1SEP96	561546.31	6694233.05	.00	.00	.00	.00
1OCT96	663453.13	7357686.18	.00	.00	.00	.00
1NOV96	595541.13	7953227.30	.00	.00	.00	.00
1DEC96	647631.75	8600859.05	.00	.00	.00	.00
1JAN97	789705.63	9390564.68	.00	.00	.00	.00
1FEB97	590517.63	9981082.30	.00	.00	.00	.00
1MAR97	550141.38	10531223.68	.00	.00	.00	.00
1APR97	505796.94	11037020.61	.00	.00	.00	.00
1MAY97	500984.44	11538005.05	.00	.00	.00	.00
1JUN97	482849.75	12020854.80	.00	.00	.00	.00
1JUL97	283618.06	12304472.86	.00	.00	.00	.00
1AUG97	238641.95	12543114.82	.00	.00	.00	.00
1SEP97	251553.59	12794668.41	.00	.00	.00	.00
1OCT97	212789.69	13007458.10	.00	.00	.00	.00
1NOV97	197662.98	13205121.08	.00	.00	.00	.00
1DEC97	237922.64	13443043.72	.00	.00	.00	.00
1JAN98	175240.66	13618284.38	.00	.00	.00	.00
1FEB98	159309.70	13777594.08	.00	.00	.00	.00
1MAR98	175240.66	13952834.74	.00	.00	.00	.00
1APR98	136456.30	14089291.04	.00	.00	.00	.00
1MAY98	115656.25	14204947.29	.00	.00	.00	.00
1JUN98	120399.06	14325346.35	.00	.00	.00	.00
1JUL98	125871.75	14451218.10	.00	.00	.00	.00
1AUG98	114926.38	14566144.47	.00	.00	.00	.00
1SEP98	120399.06	14686543.54	.00	.00	.00	.00
1OCT98	.00	14686543.54	.00	.00	.00	.00
1NOV98	.00	14686543.54	.00	.00	.00	.00
1DEC98	.00	14686543.54	.00	.00	.00	.00

1 MILLION

MWPF PROJECT - PROCUREMENT PROFILE

1 THOUSAND



Project Name	Project Phase	Project Status	Project Objective
MWPF	Design	Active	Design / Constructive

Sheet 1 of 1

MIXED WASTE MANAGEMENT FACILITY  
FOR REVIEW & COMMENT ONLY  
MWPF PROCUREMENT PROFILE

Project No. 1490  
Project Name: SOUTH  
Project Phase: DESIGN  
Project Status: ACTIVE  
Project Objective: DESIGN / CONSTRUCTIVE

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### 6.1.3 Project Expenses

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 13APR95 RUN NO. 770

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

14:57

TOTAL EXPENSES - OPEX

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXP O - MISC EXP - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	17693.58	17693.58	.00	.00	.00	.00
1NOV94	16851.03	34544.61	.00	.00	.00	.00
1DEC94	16008.48	50553.09	.00	.00	.00	.00
1JAN95	16851.03	67404.12	.00	.00	.00	.00
1FEB95	16008.48	83412.59	.00	.00	.00	.00
1MAR95	19378.68	102791.28	.00	.00	.00	.00
1APR95	18800.96	121592.24	.00	.00	.00	.00
1MAY95	21769.53	143361.77	.00	.00	.00	.00
1JUN95	21769.53	165131.30	.00	.00	.00	.00
1JUL95	19790.49	184921.79	.00	.00	.00	.00
1AUG95	22759.06	207680.85	.00	.00	.00	.00
1SEP95	19790.49	227471.34	.00	.00	.00	.00
1OCT95	21476.79	248948.13	.00	.00	.00	.00
1NOV95	19524.36	268472.48	.00	.00	.00	.00
1DEC95	22931.31	291403.79	.00	.00	.00	.00
1JAN96	24138.22	315542.01	.00	.00	.00	.00
1FEB96	24138.22	339680.23	.00	.00	.00	.00
1MAR96	25345.13	365025.36	.00	.00	.00	.00
1APR96	25345.13	390370.49	.00	.00	.00	.00
1MAY96	21476.79	411847.28	.00	.00	.00	.00
1JUN96	19524.36	431371.63	.00	.00	.00	.00
1JUL96	21476.79	452848.43	.00	.00	.00	.00
1AUG96	21476.79	474325.22	.00	.00	.00	.00
1SEP96	19524.36	493849.57	.00	.00	.00	.00
1OCT96	23478.31	517327.88	.00	.00	.00	.00
1NOV96	19395.13	536723.01	.00	.00	.00	.00
1DEC96	19395.13	556118.14	.00	.00	.00	.00
1JAN97	23433.73	579551.87	.00	.00	.00	.00
1FEB97	19524.36	599076.23	.00	.00	.00	.00
1MAR97	25545.54	624621.77	.00	.00	.00	.00
1APR97	28283.53	652905.30	.00	.00	.00	.00
1MAY97	49064.52	701969.82	.00	.00	.00	.00
1JUN97	46834.32	748804.14	.00	.00	.00	.00
1JUL97	117833.62	866637.76	.00	.00	.00	.00
1AUG97	107587.22	974224.98	.00	.00	.00	.00
1SEP97	93289.73	1067514.71	.00	.00	.00	.00
1OCT97	124770.17	1192284.88	.00	.00	.00	.00
1NOV97	97095.54	1289380.42	.00	.00	.00	.00
1DEC97	111659.87	1401040.29	.00	.00	.00	.00
1JAN98	142264.77	1543305.05	.00	.00	.00	.00
1FEB98	134108.64	1677413.70	.00	.00	.00	.00
1MAR98	147519.52	1824933.21	.00	.00	.00	.00
1APR98	140820.45	1965753.66	.00	.00	.00	.00
1MAY98	63696.82	2029450.48	.00	.00	.00	.00
1JUN98	66730.01	2096180.49	.00	.00	.00	.00
1JUL98	52054.75	2148235.24	.00	.00	.00	.00
1AUG98	47528.25	2195763.48	.00	.00	.00	.00
1SEP98	49791.50	2245554.98	.00	.00	.00	.00
1OCT98	.00	2245554.98	.00	.00	.00	.00
1NOV98	.00	2245554.98	.00	.00	.00	.00
1DEC98	.00	2245554.98	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 771  
14:58

TABULAR COST REPORT - MONTHLY

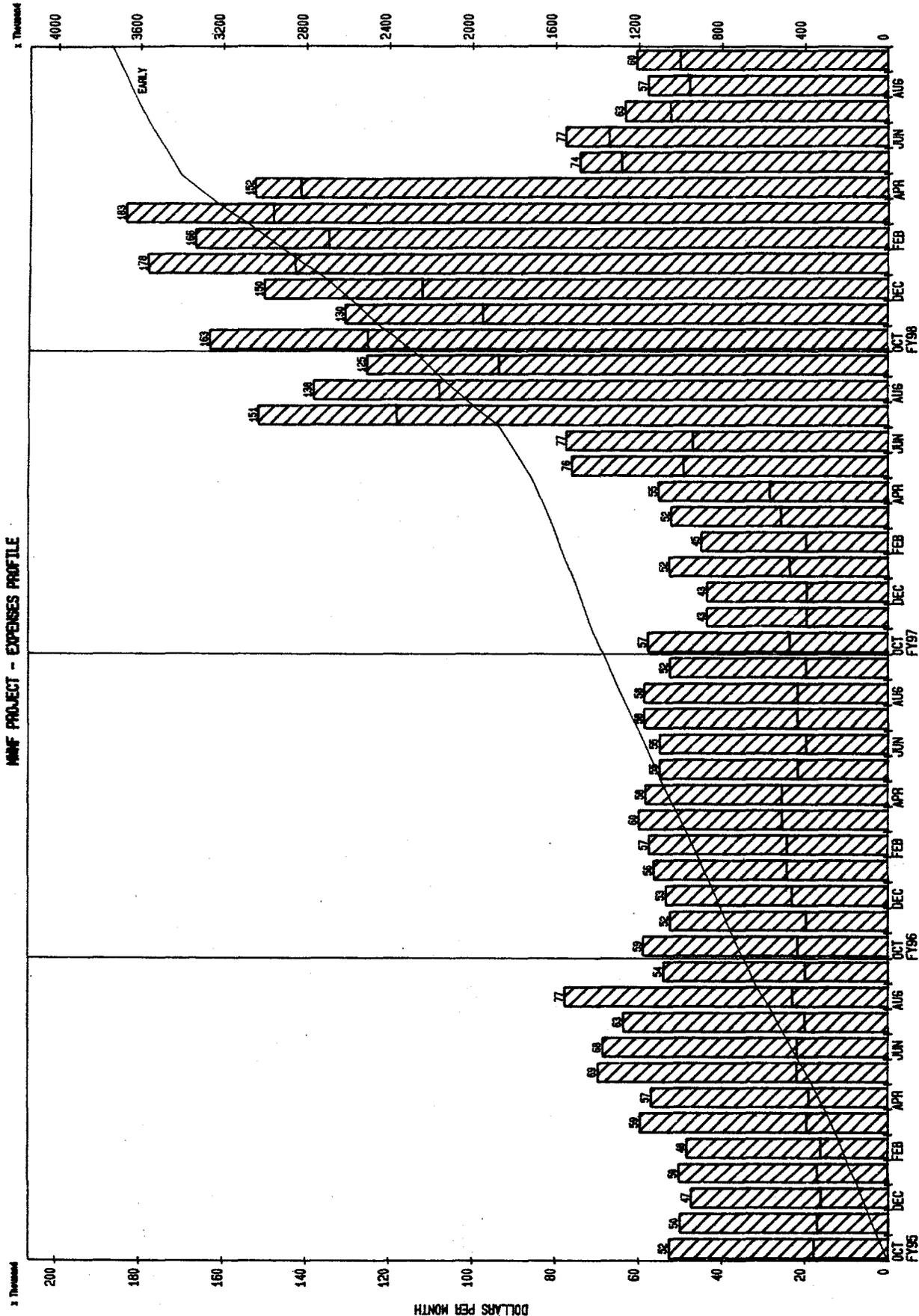
START DATE 1JUN93 FIN DATE 2OCT98

TOTAL EXPENSES - CENRTC

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXP - CENRTC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	992.00	992.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	34755.56	35747.56	.00	.00	.00	.00
1NOV94	33050.16	68797.72	.00	.00	.00	.00
1DEC94	31210.27	100007.99	.00	.00	.00	.00
1JAN95	33280.66	133288.65	.00	.00	.00	.00
1FEB95	32226.32	165514.96	.00	.00	.00	.00
1MAR95	40079.61	205594.57	.00	.00	.00	.00
1APR95	37849.70	243444.28	.00	.00	.00	.00
1MAY95	47682.72	291127.00	.00	.00	.00	.00
1JUN95	46534.21	337661.21	.00	.00	.00	.00
1JUL95	43591.66	381252.87	.00	.00	.00	.00
1AUG95	54639.91	435892.78	.00	.00	.00	.00
1SEP95	33999.61	469892.39	.00	.00	.00	.00
1OCT95	37132.37	507024.76	.00	.00	.00	.00
1NOV95	32714.59	539739.35	.00	.00	.00	.00
1DEC95	30314.30	570053.65	.00	.00	.00	.00
1JAN96	31958.34	602011.99	.00	.00	.00	.00
1FEB96	33143.40	635155.39	.00	.00	.00	.00
1MAR96	34381.77	669537.16	.00	.00	.00	.00
1APR96	32748.10	702285.26	.00	.00	.00	.00
1MAY96	33221.91	735507.18	.00	.00	.00	.00
1JUN96	35193.97	770701.15	.00	.00	.00	.00
1JUL96	36862.82	807563.96	.00	.00	.00	.00
1AUG96	36862.82	844426.78	.00	.00	.00	.00
1SEP96	32822.46	877249.24	.00	.00	.00	.00
1OCT96	34004.23	911253.47	.00	.00	.00	.00
1NOV96	23960.02	935213.49	.00	.00	.00	.00
1DEC96	23960.02	959173.50	.00	.00	.00	.00
1JAN97	29004.23	988177.74	.00	.00	.00	.00
1FEB97	25221.07	1013398.81	.00	.00	.00	.00
1MAR97	26482.13	1039880.93	.00	.00	.00	.00
1APR97	26655.86	1066536.80	.00	.00	.00	.00
1MAY97	26655.86	1093192.66	.00	.00	.00	.00
1JUN97	30271.82	1123464.48	.00	.00	.00	.00
1JUL97	33154.85	1156619.33	.00	.00	.00	.00
1AUG97	30222.41	1186841.74	.00	.00	.00	.00
1SEP97	31661.57	1218503.31	.00	.00	.00	.00
1OCT97	38057.85	1256561.16	.00	.00	.00	.00
1NOV97	33093.78	1289654.94	.00	.00	.00	.00
1DEC97	38057.85	1327712.79	.00	.00	.00	.00
1JAN98	35263.27	1362976.06	.00	.00	.00	.00
1FEB98	32057.51	1395033.57	.00	.00	.00	.00
1MAR98	35263.27	1430296.84	.00	.00	.00	.00
1APR98	10923.38	1441220.22	.00	.00	.00	.00
1MAY98	9937.87	1451158.08	.00	.00	.00	.00
1JUN98	10385.48	1461543.57	.00	.00	.00	.00
1JUL98	10857.55	1472401.12	.00	.00	.00	.00
1AUG98	9913.42	1482314.53	.00	.00	.00	.00
1SEP98	10385.48	1492700.02	.00	.00	.00	.00
1OCT98	.00	1492700.02	.00	.00	.00	.00
1NOV98	.00	1492700.02	.00	.00	.00	.00
1DEC98	.00	1492700.02	.00	.00	.00	.00

MMF PROJECT - EXPENSES PROFILE



DATE	INITIALS	REVISION	DESCRIPTION

MIXED WASTE MANAGEMENT FACILITY  
 FOR REVIEW & COMMENT ONLY  
 MMF EXPENSES PROFILE

PROJECT START DATE: 02/01/95  
 PROJECT FINISH DATE: 08/31/98  
 DRAWN BY: JMM  
 CHECKED BY: JMM  
 PROJECT MANAGER: JMM  
 (S) Preparation Systems, Inc.

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#### **6.1.4 OPEX Costs**

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 12APR95 RUN NO. 574  
14:32

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

OPEX DOLLARS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	2687821.00	2687821.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	59095.26	2746916.26	.00	.00	.00	.00
1NOV94	56281.21	2803197.46	.00	.00	.00	.00
1DEC94	53467.14	2856664.60	.00	.00	.00	.00
1JAN95	56281.21	2912945.81	.00	.00	.00	.00
1FEB95	53467.14	2966412.95	.00	.00	.00	.00
1MAR95	64723.39	3031136.33	.00	.00	.00	.00
1APR95	68288.54	3099424.87	.00	.00	.00	.00
1MAY95	79070.95	3178495.82	.00	.00	.00	.00
1JUN95	79070.95	3257566.76	.00	.00	.00	.00
1JUL95	71882.69	3329449.45	.00	.00	.00	.00
1AUG95	82665.09	3412114.54	.00	.00	.00	.00
1SEP95	71882.69	3483997.22	.00	.00	.00	.00
1OCT95	75389.62	3559386.84	.00	.00	.00	.00
1NOV95	68536.02	3627922.86	.00	.00	.00	.00
1DEC95	78066.77	3705989.64	.00	.00	.00	.00
1JAN96	82175.55	3788165.19	.00	.00	.00	.00
1FEB96	82175.55	3870340.75	.00	.00	.00	.00
1MAR96	86284.32	3956625.07	.00	.00	.00	.00
1APR96	86284.32	4042909.39	.00	.00	.00	.00
1MAY96	75389.62	4118299.00	.00	.00	.00	.00
1JUN96	68536.02	4186835.03	.00	.00	.00	.00
1JUL96	75389.62	4262224.64	.00	.00	.00	.00
1AUG96	75389.62	4337614.26	.00	.00	.00	.00
1SEP96	68536.02	4406150.29	.00	.00	.00	.00
1OCT96	89508.23	4495658.52	.00	.00	.00	.00
1NOV96	73941.57	4569600.09	.00	.00	.00	.00
1DEC96	73941.57	4643541.66	.00	.00	.00	.00
1JAN97	89026.65	4732568.31	.00	.00	.00	.00
1FEB97	68201.55	4800769.86	.00	.00	.00	.00
1MAR97	113412.27	4914182.14	.00	.00	.00	.00
1APR97	137330.92	5051513.06	.00	.00	.00	.00
1MAY97	244077.36	5295590.42	.00	.00	.00	.00
1JUN97	232982.92	5528573.34	.00	.00	.00	.00
1JUL97	456366.81	5984940.15	.00	.00	.00	.00
1AUG97	422714.19	6407654.34	.00	.00	.00	.00
1SEP97	350486.94	6758141.28	.00	.00	.00	.00
1OCT97	501457.91	7259599.18	.00	.00	.00	.00
1NOV97	358819.75	7618418.93	.00	.00	.00	.00
1DEC97	406036.84	8024455.78	.00	.00	.00	.00
1JAN98	527609.63	8552065.40	.00	.00	.00	.00
1FEB98	505492.50	9057557.90	.00	.00	.00	.00
1MAR98	556041.88	9613599.78	.00	.00	.00	.00
1APR98	538650.50	10152250.28	.00	.00	.00	.00
1MAY98	275908.13	10428158.40	.00	.00	.00	.00
1JUN98	289046.69	10717205.09	.00	.00	.00	.00
1JUL98	210324.06	10927529.15	.00	.00	.00	.00
1AUG98	192034.98	11119564.14	.00	.00	.00	.00
1SEP98	201179.53	11320743.67	.00	.00	.00	.00
1OCT98	.00	11320743.67	.00	.00	.00	.00
1NOV98	.00	11320743.67	.00	.00	.00	.00
1DEC98	.00	11320743.67	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 700  
09:31

COST LOADING REPORT

START DATE 01JUN93 FIN DATE 02OCT98

MWMF - COST LOADING - OPEX BY FISCAL YEAR

TOTAL USAGE FOR YEAR

DATA DATE 01OCT94 PAGE NO. 1

RESOURCE	RESOURCE DESCRIPTION	1995	1996	1997	1998	TOTAL
AI	0 ADMIN EXEMPT - OPEX	27750.2	35704.5	112296.7	104425.4	280176.8
AM	0 CLERICAL SUPPT-OPEX			6282.4	15077.7	21360.0
CE	0 CHEMICAL ENGR - OPEX	21927.7	61455.0	65506.1	98024.3	246913.0
CS	0 COMP SCIENT - OPEX			37987.1	59826.7	97813.8
CT	0 COMPUTER TECH - OPEX			12764.4	60843.8	73608.2
CTD-L3	0 COSTS TO DATE - OPEX					
EA	0 ELEC ASSOC - OPEX			150014.1	210062.0	360076.1
EC	0 ELEC COORD - OPEX			19796.5	64503.7	84300.2
ED	0 ELEC DESIGNER - OPEX				5655.8	5655.8
EE	0 ELEC ENGR - OPEX			47697.2	79294.1	126991.3
EP	0 ENGR-PLANT - OPEX			55984.3	109636.0	165620.3
ET	0 ELEC TECH - OPEX			15462.1	161321.1	176783.2
EXP	0 MISC EXP - OPEX	227471.3	266378.3	573665.1	1178040.4	2245555.0
MA	0 MECH ASSOC - OPEX	16355.1	30270.1	195979.8	280026.2	522631.3
MC	0 MECH COORD - OPEX			19796.5	99911.8	119708.3
MD	0 MECH DESIGNER - OPEX				32265.4	32265.4
ME	0 MECH ENGR - OPEX	90171.2	110385.8	156454.5	342730.6	699742.0
MT	0 MECH TECH - OPEX			15462.1	353517.4	368979.5
OE	0 OPS ENG L13 - OPEX	214874.3	214711.1	462530.9	510994.0	1403110.3
OT	0 OPS TECH L10 - OPEX			27377.2	35600.5	62977.6
PG	0 PROJECT MGMT - OPEX	96323.7	96712.1	121236.9	59148.1	373420.8
PROC	0 PROC DOLLARS - OPEX	48639.7	53362.1	197529.3	482868.9	782400.0
QE	0 QUALITY ENGR - OPEX	33324.0	33756.9	38205.0	52003.4	157289.3
SC	0 SCIENT CHEM - OPEX	19339.0	19417.0	19962.9	138562.7	197281.6
TC	0 CHEM TECH - OPEX				28262.4	28262.4
REPORT TOTAL		796176.2	922153.0	2351991.3	4562602.5	8632923.0

REPORT DATE 12APR95 RUN NO. 646  
15:38

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

OPEX DOLLARS - EXPENSES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	O - MISC EXPENSES - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	17693.58	17693.58	.00	.00	.00	.00
1NOV94	16851.03	34544.61	.00	.00	.00	.00
1DEC94	16008.48	50553.09	.00	.00	.00	.00
1JAN95	16851.03	67404.12	.00	.00	.00	.00
1FEB95	16008.48	83412.59	.00	.00	.00	.00
1MAR95	19378.68	102791.28	.00	.00	.00	.00
1APR95	18800.96	121592.24	.00	.00	.00	.00
1MAY95	21769.53	143361.77	.00	.00	.00	.00
1JUN95	21769.53	165131.30	.00	.00	.00	.00
1JUL95	19790.49	184921.79	.00	.00	.00	.00
1AUG95	22759.06	207680.85	.00	.00	.00	.00
1SEP95	19790.49	227471.34	.00	.00	.00	.00
1OCT95	21476.79	248948.13	.00	.00	.00	.00
1NOV95	19524.36	268472.48	.00	.00	.00	.00
1DEC95	22931.31	291403.79	.00	.00	.00	.00
1JAN96	24138.22	315542.01	.00	.00	.00	.00
1FEB96	24138.22	339680.23	.00	.00	.00	.00
1MAR96	25345.13	365025.36	.00	.00	.00	.00
1APR96	25345.13	390370.49	.00	.00	.00	.00
1MAY96	21476.79	411847.28	.00	.00	.00	.00
1JUN96	19524.36	431371.63	.00	.00	.00	.00
1JUL96	21476.79	452848.43	.00	.00	.00	.00
1AUG96	21476.79	474325.22	.00	.00	.00	.00
1SEP96	19524.36	493849.57	.00	.00	.00	.00
1OCT96	23478.31	517327.88	.00	.00	.00	.00
1NOV96	19395.13	536723.01	.00	.00	.00	.00
1DEC96	19395.13	556118.14	.00	.00	.00	.00
1JAN97	23433.73	579551.87	.00	.00	.00	.00
1FEB97	19524.36	599076.23	.00	.00	.00	.00
1MAR97	25545.54	624621.77	.00	.00	.00	.00
1APR97	28283.53	652905.30	.00	.00	.00	.00
1MAY97	49064.52	701969.82	.00	.00	.00	.00
1JUN97	46834.32	748804.14	.00	.00	.00	.00
1JUL97	117833.62	866637.76	.00	.00	.00	.00
1AUG97	107587.22	974224.98	.00	.00	.00	.00
1SEP97	93289.73	1067514.71	.00	.00	.00	.00
1OCT97	124770.17	1192284.88	.00	.00	.00	.00
1NOV97	97095.54	1289380.42	.00	.00	.00	.00
1DEC97	111659.87	1401040.29	.00	.00	.00	.00
1JAN98	142264.77	1543305.05	.00	.00	.00	.00
1FEB98	134108.64	1677413.70	.00	.00	.00	.00
1MAR98	147519.52	1824933.21	.00	.00	.00	.00
1APR98	140820.45	1965753.66	.00	.00	.00	.00
1MAY98	63696.82	2029450.48	.00	.00	.00	.00
1JUN98	66730.01	2096180.49	.00	.00	.00	.00
1JUL98	52054.75	2148235.24	.00	.00	.00	.00
1AUG98	47528.25	2195763.48	.00	.00	.00	.00
1SEP98	49791.50	2245554.98	.00	.00	.00	.00
1OCT98	.00	2245554.98	.00	.00	.00	.00
1NOV98	.00	2245554.98	.00	.00	.00	.00
1DEC98	.00	2245554.98	.00	.00	.00	.00

## 6.1.5 CENRTC Costs

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 12APR95 RUN NO. 575  
14:32

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

CENRTC DOLLARS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	108053.28	840094.59	.00	.00	.00	.00
1NOV94	172038.73	1012133.33	.00	.00	.00	.00
1SEP94	4309522.50	5321655.83	.00	.00	.00	.00
***DATA DATE***						
1OCT94	619189.50	5940845.33	.00	.00	.00	.00
1NOV94	606888.94	6547734.27	.00	.00	.00	.00
1DEC94	636594.75	7184329.02	.00	.00	.00	.00
1JAN95	697028.31	7881357.33	.00	.00	.00	.00
1FEB95	674663.25	8556020.58	.00	.00	.00	.00
1MAR95	782193.69	9338214.27	.00	.00	.00	.00
1APR95	707455.44	10045669.70	.00	.00	.00	.00
1MAY95	790231.56	10835901.27	.00	.00	.00	.00
1JUN95	682355.44	11518256.70	.00	.00	.00	.00
1JUL95	610141.75	12128398.45	.00	.00	.00	.00
1AUG95	774232.81	12902631.27	.00	.00	.00	.00
1SEP95	634668.13	13537299.39	.00	.00	.00	.00
1OCT95	707662.75	14244962.14	.00	.00	.00	.00
1NOV95	605964.13	14850926.27	.00	.00	.00	.00
1DEC95	514908.78	15365835.05	.00	.00	.00	.00
1JAN96	533859.56	15899694.61	.00	.00	.00	.00
1FEB96	540080.31	16439774.92	.00	.00	.00	.00
1MAR96	629867.44	17069642.36	.00	.00	.00	.00
1APR96	645408.75	17715051.11	.00	.00	.00	.00
1MAY96	661957.19	18377008.30	.00	.00	.00	.00
1JUN96	617047.88	18994056.17	.00	.00	.00	.00
1JUL96	992730.13	19986786.30	.00	.00	.00	.00
1AUG96	1035212.13	21021998.42	.00	.00	.00	.00
1SEP96	920157.31	21942155.73	.00	.00	.00	.00
1OCT96	1061123.75	23003279.48	.00	.00	.00	.00
1NOV96	921659.44	23924938.92	.00	.00	.00	.00
1DEC96	975695.44	24900634.36	.00	.00	.00	.00
1JAN97	1186277.25	26086911.61	.00	.00	.00	.00
1FEB97	949813.81	27036725.42	.00	.00	.00	.00
1MAR97	906285.94	27943011.36	.00	.00	.00	.00
1APR97	877636.69	28820648.05	.00	.00	.00	.00
1MAY97	889457.38	29710105.42	.00	.00	.00	.00
1JUN97	871846.56	30581951.98	.00	.00	.00	.00
1JUL97	857840.56	31439792.55	.00	.00	.00	.00
1AUG97	791197.75	32230990.30	.00	.00	.00	.00
1SEP97	867952.69	33098942.98	.00	.00	.00	.00
1OCT97	814136.38	33913079.36	.00	.00	.00	.00
1NOV97	699377.00	34612456.36	.00	.00	.00	.00
1DEC97	782028.06	35394484.42	.00	.00	.00	.00
1JAN98	644618.25	36039102.67	.00	.00	.00	.00
1FEB98	569706.69	36608809.36	.00	.00	.00	.00
1MAR98	615712.25	37224521.61	.00	.00	.00	.00
1APR98	319885.16	37544406.77	.00	.00	.00	.00
1MAY98	185885.25	37730292.02	.00	.00	.00	.00
1JUN98	191612.89	37921904.91	.00	.00	.00	.00
1JUL98	198388.83	38120293.73	.00	.00	.00	.00
1AUG98	181137.63	38301431.36	.00	.00	.00	.00
1SEP98	189763.20	38491194.56	.00	.00	.00	.00
1OCT98	.00	38491194.56	.00	.00	.00	.00
1NOV98	.00	38491194.56	.00	.00	.00	.00
1DEC98	.00	38491194.56	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 699  
09:28

COST LOADING REPORT

START DATE 01JUN93 FIN DATE 02OCT98

MWMF - COST LOADING - CENRTC BY FISCAL YEAR

TOTAL USAGE FOR YEAR

DATA DATE 01OCT94 PAGE NO. 1

RESOURCE	RESOURCE DESCRIPTION	1995	1996	1997	1998	TOTAL
AI	ADMIN EXEMPT	157811.3	166260.0	153617.7	49064.6	526753.7
AM	CLERICAL SUPPT	45855.3	41539.3	28941.2	24415.8	140751.7
BM	BOILER MAKER		12189.7	60193.3	6677.9	79060.9
C	CARPENTRY			1416.0	2218.4	3634.4
CE	CHEMICAL ENGR	468951.1	303614.0	187262.0	260387.9	1220215.0
CP	COMPUTER PROGRAMMER	5018.5	4894.1	5031.7	5129.9	20074.2
CS	COMPUTER SCIENT	128551.0	219505.0	164353.2	117390.3	629799.4
CT	COMPUTER TECH	14901.9	9650.7	67909.0	61914.0	154375.5
CTD-LIII	COSTS TO DATE-CENRTC					
E	ELEC WORK	18402.3	44268.3	276923.9	173625.2	513219.7
EA	ELEC ASSOC	60055.0	62627.6	54623.8	28394.4	205700.8
EC	ELEC COORD	11621.5	26532.0	58955.0	37561.5	134669.9
ED	ELEC DESIGNER	120873.9	108311.3	70544.9	39656.6	339386.6
EE	ELEC ENGR	655575.7	575013.5	472422.0	400363.4	2103374.5
EI	ELEC INSP		1297.9	19427.5	11020.2	31745.6
ET	ELEC TECH	37158.5	19943.9	100893.6	108432.5	266428.5
EXPENSES	MISC EXP - CENRTC	468900.4	407356.8	341254.1	274196.7	1491708.0
FT	ELEC FAB TECH	13983.2	13193.0	54994.7	59650.8	141821.6
L	LABORER	2481.2	6577.7	70968.9	35057.6	115085.3
MA	MECH ASSOC	39625.4	39785.2	40903.7	15618.5	135932.8
MC	MECH COORD	82177.1	125507.2	127467.2	51248.1	386399.7
MD	MECH DESIGNER	654793.9	342411.0	113133.3	57828.1	1168166.4
ME	MECH ENGR	1295644.8	906606.8	634592.8	374561.1	3211405.5
MI	MECH INSP		8385.1	52512.5	15394.1	76291.7
MT	MECH TECH	202407.7	129141.8	516481.3	303144.8	1151175.5
MW	MILLWRIGHT	2540.9	11674.6	115101.4	108515.9	237832.9
OE	OPS ENG L13	169711.3	91767.5	46860.0		308338.8
P	PAINT WORK		2595.3	40008.5	31016.6	73620.5
PE	PROGRAM ENGR	38452.8	38952.4	40047.4	28347.6	145800.2
PF	PIPE FITTING	6538.9	18977.0	290410.3	222378.9	538305.1
PG	PROJECT MGMT	332485.0	334716.7	331129.7	176661.1	1174992.5
PROCURE	PROC DOLLARS-CENRTC	2627632.8	3854818.0	6100435.5	1891875.3	14474761.0
QE	QUALITY ENGR	60231.6	88568.9	91058.8	62302.6	302161.9
SC	SCIENT CHEMIST	327642.9	259014.9	239510.1	182635.6	1008803.6
SM	SHEET METAL WORKER	3242.3	3680.4	53566.2	58177.5	118666.4
TC	CHEM TECH	162375.7	125479.8	133837.1	117388.3	539080.9
	REPORT TOTAL	8215644.0	8404858.0	11156788.0	5392251.5	33169542.0

REPORT DATE 12APR95 RUN NO. 643  
15:34

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

CENRTC DOLLARS - PROCUREMENTS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	35228.52	126004.88	.00	.00	.00	.00
1AUG94	45485.30	171490.18	.00	.00	.00	.00
1SEP94	40292.09	211782.27	.00	.00	.00	.00
***DATA DATE***						
1OCT94	202646.09	414428.36	.00	.00	.00	.00
1NOV94	204434.39	618862.75	.00	.00	.00	.00
1DEC94	229218.52	848081.27	.00	.00	.00	.00
1JAN95	238151.98	1086233.25	.00	.00	.00	.00
1FEB95	219006.16	1305239.41	.00	.00	.00	.00
1MAR95	261455.05	1566694.46	.00	.00	.00	.00
1APR95	220896.23	1787590.69	.00	.00	.00	.00
1MAY95	256519.31	2044110.00	.00	.00	.00	.00
1JUN95	238582.86	2282692.86	.00	.00	.00	.00
1JUL95	166427.36	2449120.22	.00	.00	.00	.00
1AUG95	220534.42	2669654.64	.00	.00	.00	.00
1SEP95	169760.38	2839415.02	.00	.00	.00	.00
1OCT95	199170.92	3038585.94	.00	.00	.00	.00
1NOV95	178059.22	3216645.16	.00	.00	.00	.00
1DEC95	152872.80	3369517.96	.00	.00	.00	.00
1JAN96	157219.86	3526737.82	.00	.00	.00	.00
1FEB96	164671.66	3691409.47	.00	.00	.00	.00
1MAR96	252510.80	3943920.27	.00	.00	.00	.00
1APR96	297765.63	4241685.89	.00	.00	.00	.00
1MAY96	305416.47	4547102.36	.00	.00	.00	.00
1JUN96	288766.00	4835868.36	.00	.00	.00	.00
1JUL96	648409.19	5484277.55	.00	.00	.00	.00
1AUG96	648409.19	6132686.74	.00	.00	.00	.00
1SEP96	561546.31	6694233.05	.00	.00	.00	.00
1OCT96	663453.13	7357686.18	.00	.00	.00	.00
1NOV96	595541.13	7953227.30	.00	.00	.00	.00
1DEC96	647631.75	8600859.05	.00	.00	.00	.00
1JAN97	789705.63	9390564.68	.00	.00	.00	.00
1FEB97	590517.63	9981082.30	.00	.00	.00	.00
1MAR97	550141.38	10531223.68	.00	.00	.00	.00
1APR97	505796.94	11037020.61	.00	.00	.00	.00
1MAY97	500984.44	11538005.05	.00	.00	.00	.00
1JUN97	482849.75	12020854.80	.00	.00	.00	.00
1JUL97	283618.06	12304472.86	.00	.00	.00	.00
1AUG97	238641.95	12543114.82	.00	.00	.00	.00
1SEP97	251553.59	12794668.41	.00	.00	.00	.00
1OCT97	212789.69	13007458.10	.00	.00	.00	.00
1NOV97	197662.98	13205121.08	.00	.00	.00	.00
1DEC97	237922.64	13443043.72	.00	.00	.00	.00
1JAN98	175240.66	13618284.38	.00	.00	.00	.00
1FEB98	159309.70	13777594.08	.00	.00	.00	.00
1MAR98	175240.66	13952834.74	.00	.00	.00	.00
1APR98	136456.30	14089291.04	.00	.00	.00	.00
1MAY98	115656.25	14204947.29	.00	.00	.00	.00
1JUN98	120399.06	14325346.35	.00	.00	.00	.00
1JUL98	125871.75	14451218.10	.00	.00	.00	.00
1AUG98	114926.38	14566144.47	.00	.00	.00	.00
1SEP98	120399.06	14686543.54	.00	.00	.00	.00
1OCT98	.00	14686543.54	.00	.00	.00	.00
1NOV98	.00	14686543.54	.00	.00	.00	.00
1DEC98	.00	14686543.54	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 644  
15:34

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

CENRTC DOLLARS - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	992.00	992.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	34755.56	35747.56	.00	.00	.00	.00
1NOV94	33050.16	68797.72	.00	.00	.00	.00
1DEC94	31210.27	100007.99	.00	.00	.00	.00
1JAN95	33280.66	133288.65	.00	.00	.00	.00
1FEB95	32226.32	165514.96	.00	.00	.00	.00
1MAR95	40079.61	205594.57	.00	.00	.00	.00
1APR95	37849.70	243444.28	.00	.00	.00	.00
1MAY95	47682.72	291127.00	.00	.00	.00	.00
1JUN95	46534.21	337661.21	.00	.00	.00	.00
1JUL95	43591.66	381252.87	.00	.00	.00	.00
1AUG95	54639.91	435892.78	.00	.00	.00	.00
1SEP95	33999.61	469892.39	.00	.00	.00	.00
1OCT95	37132.37	507024.76	.00	.00	.00	.00
1NOV95	32714.59	539739.35	.00	.00	.00	.00
1DEC95	30314.30	570053.65	.00	.00	.00	.00
1JAN96	31958.34	602011.99	.00	.00	.00	.00
1FEB96	33143.40	635155.39	.00	.00	.00	.00
1MAR96	34381.77	669537.16	.00	.00	.00	.00
1APR96	32748.10	702285.26	.00	.00	.00	.00
1MAY96	33221.91	735507.18	.00	.00	.00	.00
1JUN96	35193.97	770701.15	.00	.00	.00	.00
1JUL96	36862.82	807563.96	.00	.00	.00	.00
1AUG96	36862.82	844426.78	.00	.00	.00	.00
1SEP96	32822.46	877249.24	.00	.00	.00	.00
1OCT96	34004.23	911253.47	.00	.00	.00	.00
1NOV96	23960.02	935213.49	.00	.00	.00	.00
1DEC96	23960.02	959173.50	.00	.00	.00	.00
1JAN97	29004.23	988177.74	.00	.00	.00	.00
1FEB97	25221.07	1013398.81	.00	.00	.00	.00
1MAR97	26482.13	1039880.93	.00	.00	.00	.00
1APR97	26655.86	1066536.80	.00	.00	.00	.00
1MAY97	26655.86	1093192.66	.00	.00	.00	.00
1JUN97	30271.82	1123464.48	.00	.00	.00	.00
1JUL97	33154.85	1156619.33	.00	.00	.00	.00
1AUG97	30222.41	1186841.74	.00	.00	.00	.00
1SEP97	31661.57	1218503.31	.00	.00	.00	.00
1OCT97	38057.85	1256561.16	.00	.00	.00	.00
1NOV97	33093.78	1289654.94	.00	.00	.00	.00
1DEC97	38057.85	1327712.79	.00	.00	.00	.00
1JAN98	35263.27	1362976.06	.00	.00	.00	.00
1FEB98	32057.51	1395033.57	.00	.00	.00	.00
1MAR98	35263.27	1430296.84	.00	.00	.00	.00
1APR98	10923.38	1441220.22	.00	.00	.00	.00
1MAY98	9937.87	1451158.08	.00	.00	.00	.00
1JUN98	10385.48	1461543.57	.00	.00	.00	.00
1JUL98	10857.55	1472401.12	.00	.00	.00	.00
1AUG98	9913.42	1482314.53	.00	.00	.00	.00
1SEP98	10385.48	1492700.02	.00	.00	.00	.00
1OCT98	.00	1492700.02	.00	.00	.00	.00
1NOV98	.00	1492700.02	.00	.00	.00	.00
1DEC98	.00	1492700.02	.00	.00	.00	.00

### 6.1.6 WBS Level 3 Costs

**Note: Project cost reports include all resources, procurements, and expenses. Figures are in dollars.**

REPORT DATE 12APR95 RUN NO. 576  
14:33

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.1 QUALITY ASSURANCE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	105179.00	105179.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	2821.79	108000.79	.00	.00	.00	.00
1NOV94	2687.42	110688.21	.00	.00	.00	.00
1DEC94	2553.05	113241.26	.00	.00	.00	.00
1JAN95	2687.42	115928.68	.00	.00	.00	.00
1FEB95	2553.05	118481.73	.00	.00	.00	.00
1MAR95	3090.53	121572.26	.00	.00	.00	.00
1APR95	2553.05	124125.31	.00	.00	.00	.00
1MAY95	2956.16	127081.47	.00	.00	.00	.00
1JUN95	2956.16	130037.63	.00	.00	.00	.00
1JUL95	2687.42	132725.05	.00	.00	.00	.00
1AUG95	3090.53	135815.58	.00	.00	.00	.00
1SEP95	2687.42	138503.00	.00	.00	.00	.00
1OCT95	2982.54	141485.54	.00	.00	.00	.00
1NOV95	2711.40	144196.94	.00	.00	.00	.00
1DEC95	2575.83	146772.78	.00	.00	.00	.00
1JAN96	2711.40	149484.18	.00	.00	.00	.00
1FEB96	2711.40	152195.58	.00	.00	.00	.00
1MAR96	2846.97	155042.55	.00	.00	.00	.00
1APR96	2846.97	157889.52	.00	.00	.00	.00
1MAY96	2982.54	160872.06	.00	.00	.00	.00
1JUN96	2711.40	163583.47	.00	.00	.00	.00
1JUL96	2982.54	166566.01	.00	.00	.00	.00
1AUG96	2982.54	169548.55	.00	.00	.00	.00
1SEP96	2711.40	172259.95	.00	.00	.00	.00
1OCT96	3118.11	175378.06	.00	.00	.00	.00
1NOV96	2575.83	177953.89	.00	.00	.00	.00
1DEC96	2575.83	180529.73	.00	.00	.00	.00
1JAN97	3118.11	183647.84	.00	.00	.00	.00
1FEB97	2711.40	186359.24	.00	.00	.00	.00
1MAR97	2846.97	189206.21	.00	.00	.00	.00
1APR97	2982.54	192188.75	.00	.00	.00	.00
1MAY97	2982.54	195171.29	.00	.00	.00	.00
1JUN97	2846.97	198018.27	.00	.00	.00	.00
1JUL97	3118.11	201136.38	.00	.00	.00	.00
1AUG97	2846.97	203983.35	.00	.00	.00	.00
1SEP97	2982.54	206965.89	.00	.00	.00	.00
1OCT97	3118.11	210084.00	.00	.00	.00	.00
1NOV97	2711.40	212795.40	.00	.00	.00	.00
1DEC97	3118.11	215913.52	.00	.00	.00	.00
1JAN98	2982.54	218896.06	.00	.00	.00	.00
1FEB98	2711.40	221607.46	.00	.00	.00	.00
1MAR98	2982.54	224590.00	.00	.00	.00	.00
1APR98	1865.47	226455.47	.00	.00	.00	.00
1MAY98	1780.67	228236.14	.00	.00	.00	.00
1JUN98	1865.47	230101.60	.00	.00	.00	.00
1JUL98	1950.26	232051.86	.00	.00	.00	.00
1AUG98	1780.67	233832.54	.00	.00	.00	.00
1SEP98	1865.47	235698.00	.00	.00	.00	.00
1OCT98	.00	235698.00	.00	.00	.00	.00
1NOV98	.00	235698.00	.00	.00	.00	.00
1DEC98	.00	235698.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 577  
14:34

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.2 PSAR

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	341923.00	341923.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1649.99	343572.99	.00	.00	.00	.00
1NOV94	1571.42	345144.40	.00	.00	.00	.00
1DEC94	1492.85	346637.25	.00	.00	.00	.00
1JAN95	1571.42	348208.67	.00	.00	.00	.00
1FEB95	1492.85	349701.51	.00	.00	.00	.00
1MAR95	1807.13	351508.64	.00	.00	.00	.00
1APR95	1492.85	353001.49	.00	.00	.00	.00
1MAY95	1728.56	354730.05	.00	.00	.00	.00
1JUN95	1728.56	356458.61	.00	.00	.00	.00
1JUL95	1571.42	358030.02	.00	.00	.00	.00
1AUG95	1807.13	359837.15	.00	.00	.00	.00
1SEP95	1571.42	361408.57	.00	.00	.00	.00
1OCT95	.00	361408.57	.00	.00	.00	.00
1NOV95	.00	361408.57	.00	.00	.00	.00
1DEC95	.00	361408.57	.00	.00	.00	.00
1JAN96	.00	361408.57	.00	.00	.00	.00
1FEB96	.00	361408.57	.00	.00	.00	.00
1MAR96	.00	361408.57	.00	.00	.00	.00
1APR96	.00	361408.57	.00	.00	.00	.00
1MAY96	.00	361408.57	.00	.00	.00	.00
1JUN96	.00	361408.57	.00	.00	.00	.00
1JUL96	.00	361408.57	.00	.00	.00	.00
1AUG96	.00	361408.57	.00	.00	.00	.00
1SEP96	.00	361408.57	.00	.00	.00	.00
1OCT96	.00	361408.57	.00	.00	.00	.00
1NOV96	.00	361408.57	.00	.00	.00	.00
1DEC96	.00	361408.57	.00	.00	.00	.00
1JAN97	.00	361408.57	.00	.00	.00	.00
1FEB97	.00	361408.57	.00	.00	.00	.00
1MAR97	.00	361408.57	.00	.00	.00	.00
1APR97	.00	361408.57	.00	.00	.00	.00
1MAY97	.00	361408.57	.00	.00	.00	.00
1JUN97	.00	361408.57	.00	.00	.00	.00
1JUL97	.00	361408.57	.00	.00	.00	.00
1AUG97	.00	361408.57	.00	.00	.00	.00
1SEP97	.00	361408.57	.00	.00	.00	.00
1OCT97	.00	361408.57	.00	.00	.00	.00
1NOV97	.00	361408.57	.00	.00	.00	.00
1DEC97	.00	361408.57	.00	.00	.00	.00
1JAN98	.00	361408.57	.00	.00	.00	.00
1FEB98	.00	361408.57	.00	.00	.00	.00
1MAR98	.00	361408.57	.00	.00	.00	.00
1APR98	.00	361408.57	.00	.00	.00	.00
1MAY98	.00	361408.57	.00	.00	.00	.00
1JUN98	.00	361408.57	.00	.00	.00	.00
1JUL98	.00	361408.57	.00	.00	.00	.00
1AUG98	.00	361408.57	.00	.00	.00	.00
1SEP98	.00	361408.57	.00	.00	.00	.00
1OCT98	.00	361408.57	.00	.00	.00	.00
1NOV98	.00	361408.57	.00	.00	.00	.00
1DEC98	.00	361408.57	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	931.45	931.45	.00	.00	.00	.00
1NOV94	887.10	1818.55	.00	.00	.00	.00
1DEC94	842.74	2661.29	.00	.00	.00	.00
1JAN95	887.10	3548.39	.00	.00	.00	.00
1FEB95	842.74	4391.13	.00	.00	.00	.00
1MAR95	1020.16	5411.29	.00	.00	.00	.00
1APR95	842.74	6254.03	.00	.00	.00	.00
1MAY95	975.81	7229.84	.00	.00	.00	.00
1JUN95	975.81	8205.65	.00	.00	.00	.00
1JUL95	887.10	9092.74	.00	.00	.00	.00
1AUG95	1020.16	10112.90	.00	.00	.00	.00
1SEP95	887.10	11000.00	.00	.00	.00	.00
1OCT95	.00	11000.00	.00	.00	.00	.00
1NOV95	.00	11000.00	.00	.00	.00	.00
1DEC95	.00	11000.00	.00	.00	.00	.00
1JAN96	.00	11000.00	.00	.00	.00	.00
1FEB96	.00	11000.00	.00	.00	.00	.00
1MAR96	.00	11000.00	.00	.00	.00	.00
1APR96	.00	11000.00	.00	.00	.00	.00
1MAY96	.00	11000.00	.00	.00	.00	.00
1JUN96	.00	11000.00	.00	.00	.00	.00
1JUL96	.00	11000.00	.00	.00	.00	.00
1AUG96	.00	11000.00	.00	.00	.00	.00
1SEP96	.00	11000.00	.00	.00	.00	.00
1OCT96	.00	11000.00	.00	.00	.00	.00
1NOV96	.00	11000.00	.00	.00	.00	.00
1DEC96	.00	11000.00	.00	.00	.00	.00
1JAN97	.00	11000.00	.00	.00	.00	.00
1FEB97	.00	11000.00	.00	.00	.00	.00
1MAR97	.00	11000.00	.00	.00	.00	.00
1APR97	.00	11000.00	.00	.00	.00	.00
1MAY97	.00	11000.00	.00	.00	.00	.00
1JUN97	.00	11000.00	.00	.00	.00	.00
1JUL97	.00	11000.00	.00	.00	.00	.00
1AUG97	.00	11000.00	.00	.00	.00	.00
1SEP97	.00	11000.00	.00	.00	.00	.00
1OCT97	.00	11000.00	.00	.00	.00	.00
1NOV97	.00	11000.00	.00	.00	.00	.00
1DEC97	.00	11000.00	.00	.00	.00	.00
1JAN98	.00	11000.00	.00	.00	.00	.00
1FEB98	.00	11000.00	.00	.00	.00	.00
1MAR98	.00	11000.00	.00	.00	.00	.00
1APR98	.00	11000.00	.00	.00	.00	.00
1MAY98	.00	11000.00	.00	.00	.00	.00
1JUN98	.00	11000.00	.00	.00	.00	.00
1JUL98	.00	11000.00	.00	.00	.00	.00
1AUG98	.00	11000.00	.00	.00	.00	.00
1SEP98	.00	11000.00	.00	.00	.00	.00
1OCT98	.00	11000.00	.00	.00	.00	.00
1NOV98	.00	11000.00	.00	.00	.00	.00
1DEC98	.00	11000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 578  
14:34

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.3 CEQA

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	189737.00	189737.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	20930.76	210667.76	.00	.00	.00	.00
1NOV94	19934.06	230601.82	.00	.00	.00	.00
1DEC94	18937.35	249539.17	.00	.00	.00	.00
1JAN95	19934.06	269473.23	.00	.00	.00	.00
1FEB95	18937.35	288410.58	.00	.00	.00	.00
1MAR95	22924.17	311334.75	.00	.00	.00	.00
1APR95	18937.35	330272.10	.00	.00	.00	.00
1MAY95	21927.46	352199.57	.00	.00	.00	.00
1JUN95	21927.46	374127.03	.00	.00	.00	.00
1JUL95	19934.06	394061.09	.00	.00	.00	.00
1AUG95	22924.17	416985.25	.00	.00	.00	.00
1SEP95	19934.06	436919.31	.00	.00	.00	.00
1OCT95	25336.63	462255.95	.00	.00	.00	.00
1NOV95	23033.30	485289.24	.00	.00	.00	.00
1DEC95	21881.64	507170.88	.00	.00	.00	.00
1JAN96	23033.30	530204.18	.00	.00	.00	.00
1FEB96	23033.30	553237.48	.00	.00	.00	.00
1MAR96	24184.96	577422.44	.00	.00	.00	.00
1APR96	24184.96	601607.41	.00	.00	.00	.00
1MAY96	25336.63	626944.04	.00	.00	.00	.00
1JUN96	23033.30	649977.34	.00	.00	.00	.00
1JUL96	25336.63	675313.97	.00	.00	.00	.00
1AUG96	25336.63	700650.61	.00	.00	.00	.00
1SEP96	23033.30	723683.90	.00	.00	.00	.00
1OCT96	4659.30	728343.20	.00	.00	.00	.00
1NOV96	3848.98	732192.19	.00	.00	.00	.00
1DEC96	3848.98	736041.17	.00	.00	.00	.00
1JAN97	4659.30	740700.47	.00	.00	.00	.00
1FEB97	4051.56	744752.03	.00	.00	.00	.00
1MAR97	4254.14	749006.17	.00	.00	.00	.00
1APR97	4456.72	753462.89	.00	.00	.00	.00
1MAY97	4456.72	757919.61	.00	.00	.00	.00
1JUN97	4254.14	762173.75	.00	.00	.00	.00
1JUL97	4659.30	766833.04	.00	.00	.00	.00
1AUG97	4254.14	771087.19	.00	.00	.00	.00
1SEP97	4456.72	775543.90	.00	.00	.00	.00
1OCT97	.00	775543.90	.00	.00	.00	.00
1NOV97	.00	775543.90	.00	.00	.00	.00
1DEC97	.00	775543.90	.00	.00	.00	.00
1JAN98	.00	775543.90	.00	.00	.00	.00
1FEB98	.00	775543.90	.00	.00	.00	.00
1MAR98	.00	775543.90	.00	.00	.00	.00
1APR98	.00	775543.90	.00	.00	.00	.00
1MAY98	.00	775543.90	.00	.00	.00	.00
1JUN98	.00	775543.90	.00	.00	.00	.00
1JUL98	.00	775543.90	.00	.00	.00	.00
1AUG98	.00	775543.90	.00	.00	.00	.00
1SEP98	.00	775543.90	.00	.00	.00	.00
1OCT98	.00	775543.90	.00	.00	.00	.00
1NOV98	.00	775543.90	.00	.00	.00	.00
1DEC98	.00	775543.90	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 641  
15:30

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.3 CEQA - PROCUREMENTS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	14578.31	14578.31	.00	.00	.00	.00
1NOV95	13253.01	27831.33	.00	.00	.00	.00
1DEC95	12590.36	40421.69	.00	.00	.00	.00
1JAN96	13253.01	53674.70	.00	.00	.00	.00
1FEB96	13253.01	66927.71	.00	.00	.00	.00
1MAR96	13915.66	80843.37	.00	.00	.00	.00
1APR96	13915.66	94759.04	.00	.00	.00	.00
1MAY96	14578.31	109337.35	.00	.00	.00	.00
1JUN96	13253.01	122590.36	.00	.00	.00	.00
1JUL96	14578.31	137168.67	.00	.00	.00	.00
1AUG96	14578.31	151746.99	.00	.00	.00	.00
1SEP96	13253.01	165000.00	.00	.00	.00	.00
1OCT96	.00	165000.00	.00	.00	.00	.00
1NOV96	.00	165000.00	.00	.00	.00	.00
1DEC96	.00	165000.00	.00	.00	.00	.00
1JAN97	.00	165000.00	.00	.00	.00	.00
1FEB97	.00	165000.00	.00	.00	.00	.00
1MAR97	.00	165000.00	.00	.00	.00	.00
1APR97	.00	165000.00	.00	.00	.00	.00
1MAY97	.00	165000.00	.00	.00	.00	.00
1JUN97	.00	165000.00	.00	.00	.00	.00
1JUL97	.00	165000.00	.00	.00	.00	.00
1AUG97	.00	165000.00	.00	.00	.00	.00
1SEP97	.00	165000.00	.00	.00	.00	.00
1OCT97	.00	165000.00	.00	.00	.00	.00
1NOV97	.00	165000.00	.00	.00	.00	.00
1DEC97	.00	165000.00	.00	.00	.00	.00
1JAN98	.00	165000.00	.00	.00	.00	.00
1FEB98	.00	165000.00	.00	.00	.00	.00
1MAR98	.00	165000.00	.00	.00	.00	.00
1APR98	.00	165000.00	.00	.00	.00	.00
1MAY98	.00	165000.00	.00	.00	.00	.00
1JUN98	.00	165000.00	.00	.00	.00	.00
1JUL98	.00	165000.00	.00	.00	.00	.00
1AUG98	.00	165000.00	.00	.00	.00	.00
1SEP98	.00	165000.00	.00	.00	.00	.00
1OCT98	.00	165000.00	.00	.00	.00	.00
1NOV98	.00	165000.00	.00	.00	.00	.00
1DEC98	.00	165000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 639  
15:29

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.3 CEQA - EXPENSES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
EXP	O - MISC EXPENSES - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	279.44	279.44	.00	.00	.00	.00
1NOV94	266.13	545.56	.00	.00	.00	.00
1DEC94	252.82	798.39	.00	.00	.00	.00
1JAN95	266.13	1064.52	.00	.00	.00	.00
1FEB95	252.82	1317.34	.00	.00	.00	.00
1MAR95	306.05	1623.39	.00	.00	.00	.00
1APR95	252.82	1876.21	.00	.00	.00	.00
1MAY95	292.74	2168.95	.00	.00	.00	.00
1JUN95	292.74	2461.69	.00	.00	.00	.00
1JUL95	266.13	2727.82	.00	.00	.00	.00
1AUG95	306.05	3033.87	.00	.00	.00	.00
1SEP95	266.13	3300.00	.00	.00	.00	.00
1OCT95	.00	3300.00	.00	.00	.00	.00
1NOV95	.00	3300.00	.00	.00	.00	.00
1DEC95	.00	3300.00	.00	.00	.00	.00
1JAN96	.00	3300.00	.00	.00	.00	.00
1FEB96	.00	3300.00	.00	.00	.00	.00
1MAR96	.00	3300.00	.00	.00	.00	.00
1APR96	.00	3300.00	.00	.00	.00	.00
1MAY96	.00	3300.00	.00	.00	.00	.00
1JUN96	.00	3300.00	.00	.00	.00	.00
1JUL96	.00	3300.00	.00	.00	.00	.00
1AUG96	.00	3300.00	.00	.00	.00	.00
1SEP96	.00	3300.00	.00	.00	.00	.00
1OCT96	.00	3300.00	.00	.00	.00	.00
1NOV96	.00	3300.00	.00	.00	.00	.00
1DEC96	.00	3300.00	.00	.00	.00	.00
1JAN97	.00	3300.00	.00	.00	.00	.00
1FEB97	.00	3300.00	.00	.00	.00	.00
1MAR97	.00	3300.00	.00	.00	.00	.00
1APR97	.00	3300.00	.00	.00	.00	.00
1MAY97	.00	3300.00	.00	.00	.00	.00
1JUN97	.00	3300.00	.00	.00	.00	.00
1JUL97	.00	3300.00	.00	.00	.00	.00
1AUG97	.00	3300.00	.00	.00	.00	.00
1SEP97	.00	3300.00	.00	.00	.00	.00
1OCT97	.00	3300.00	.00	.00	.00	.00
1NOV97	.00	3300.00	.00	.00	.00	.00
1DEC97	.00	3300.00	.00	.00	.00	.00
1JAN98	.00	3300.00	.00	.00	.00	.00
1FEB98	.00	3300.00	.00	.00	.00	.00
1MAR98	.00	3300.00	.00	.00	.00	.00
1APR98	.00	3300.00	.00	.00	.00	.00
1MAY98	.00	3300.00	.00	.00	.00	.00
1JUN98	.00	3300.00	.00	.00	.00	.00
1JUL98	.00	3300.00	.00	.00	.00	.00
1AUG98	.00	3300.00	.00	.00	.00	.00
1SEP98	.00	3300.00	.00	.00	.00	.00
1OCT98	.00	3300.00	.00	.00	.00	.00
1NOV98	.00	3300.00	.00	.00	.00	.00
1DEC98	.00	3300.00	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	3556.45	3556.45	.00	.00	.00	.00
1NOV94	3387.10	6943.55	.00	.00	.00	.00
1DEC94	3217.74	10161.29	.00	.00	.00	.00
1JAN95	3387.10	13548.39	.00	.00	.00	.00
1FEB95	3217.74	16766.13	.00	.00	.00	.00
1MAR95	3895.16	20661.29	.00	.00	.00	.00
1APR95	3217.74	23879.03	.00	.00	.00	.00
1MAY95	3725.81	27604.84	.00	.00	.00	.00
1JUN95	3725.81	31330.65	.00	.00	.00	.00
1JUL95	3387.10	34717.74	.00	.00	.00	.00
1AUG95	3895.16	38612.90	.00	.00	.00	.00
1SEP95	3387.10	42000.00	.00	.00	.00	.00
1OCT95	2208.84	44208.84	.00	.00	.00	.00
1NOV95	2008.03	46216.87	.00	.00	.00	.00
1DEC95	1907.63	48124.50	.00	.00	.00	.00
1JAN96	2008.03	50132.53	.00	.00	.00	.00
1FEB96	2008.03	52140.56	.00	.00	.00	.00
1MAR96	2108.43	54249.00	.00	.00	.00	.00
1APR96	2108.43	56357.43	.00	.00	.00	.00
1MAY96	2208.84	58566.27	.00	.00	.00	.00
1JUN96	2008.03	60574.30	.00	.00	.00	.00
1JUL96	2208.84	62783.13	.00	.00	.00	.00
1AUG96	2208.84	64991.97	.00	.00	.00	.00
1SEP96	2008.03	67000.00	.00	.00	.00	.00
1OCT96	449.22	67449.22	.00	.00	.00	.00
1NOV96	371.09	67820.31	.00	.00	.00	.00
1DEC96	371.09	68191.41	.00	.00	.00	.00
1JAN97	449.22	68640.63	.00	.00	.00	.00
1FEB97	390.63	69031.25	.00	.00	.00	.00
1MAR97	410.16	69441.41	.00	.00	.00	.00
1APR97	429.69	69871.09	.00	.00	.00	.00
1MAY97	429.69	70300.78	.00	.00	.00	.00
1JUN97	410.16	70710.94	.00	.00	.00	.00
1JUL97	449.22	71160.16	.00	.00	.00	.00
1AUG97	410.16	71570.31	.00	.00	.00	.00
1SEP97	429.69	72000.00	.00	.00	.00	.00
1OCT97	.00	72000.00	.00	.00	.00	.00
1NOV97	.00	72000.00	.00	.00	.00	.00
1DEC97	.00	72000.00	.00	.00	.00	.00
1JAN98	.00	72000.00	.00	.00	.00	.00
1FEB98	.00	72000.00	.00	.00	.00	.00
1MAR98	.00	72000.00	.00	.00	.00	.00
1APR98	.00	72000.00	.00	.00	.00	.00
1MAY98	.00	72000.00	.00	.00	.00	.00
1JUN98	.00	72000.00	.00	.00	.00	.00
1JUL98	.00	72000.00	.00	.00	.00	.00
1AUG98	.00	72000.00	.00	.00	.00	.00
1SEP98	.00	72000.00	.00	.00	.00	.00
1OCT98	.00	72000.00	.00	.00	.00	.00
1NOV98	.00	72000.00	.00	.00	.00	.00
1DEC98	.00	72000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 579  
14:35

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.4 ES&H

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	135912.00	135912.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	13718.59	149630.59	.00	.00	.00	.00
1NOV94	13065.32	162695.91	.00	.00	.00	.00
1DEC94	12412.06	175107.97	.00	.00	.00	.00
1JAN95	13065.32	188173.29	.00	.00	.00	.00
1FEB95	12412.06	200585.35	.00	.00	.00	.00
1MAR95	15025.12	215610.47	.00	.00	.00	.00
1APR95	12412.06	228022.52	.00	.00	.00	.00
1MAY95	14371.85	242394.38	.00	.00	.00	.00
1JUN95	14371.85	256766.23	.00	.00	.00	.00
1JUL95	13065.32	269831.56	.00	.00	.00	.00
1AUG95	15025.12	284856.68	.00	.00	.00	.00
1SEP95	13065.32	297922.00	.00	.00	.00	.00
1OCT95	13455.29	311377.29	.00	.00	.00	.00
1NOV95	12232.08	323609.37	.00	.00	.00	.00
1DEC95	11620.48	335229.84	.00	.00	.00	.00
1JAN96	12232.08	347461.92	.00	.00	.00	.00
1FEB96	12232.08	359694.00	.00	.00	.00	.00
1MAR96	12843.68	372537.69	.00	.00	.00	.00
1APR96	12843.68	385381.37	.00	.00	.00	.00
1MAY96	13455.29	398836.66	.00	.00	.00	.00
1JUN96	12232.08	411068.74	.00	.00	.00	.00
1JUL96	13455.29	424524.03	.00	.00	.00	.00
1AUG96	13455.29	437979.32	.00	.00	.00	.00
1SEP96	12232.08	450211.40	.00	.00	.00	.00
1OCT96	13682.25	463893.65	.00	.00	.00	.00
1NOV96	11302.73	475196.38	.00	.00	.00	.00
1DEC96	11302.73	486499.11	.00	.00	.00	.00
1JAN97	13682.25	500181.36	.00	.00	.00	.00
1FEB97	11897.61	512078.97	.00	.00	.00	.00
1MAR97	12492.49	524571.46	.00	.00	.00	.00
1APR97	13087.37	537658.83	.00	.00	.00	.00
1MAY97	13087.37	550746.20	.00	.00	.00	.00
1JUN97	12492.49	563238.69	.00	.00	.00	.00
1JUL97	13682.25	576920.94	.00	.00	.00	.00
1AUG97	12492.49	589413.43	.00	.00	.00	.00
1SEP97	13087.37	602500.80	.00	.00	.00	.00
1OCT97	16846.56	619347.35	.00	.00	.00	.00
1NOV97	14649.18	633996.53	.00	.00	.00	.00
1DEC97	16846.56	650843.09	.00	.00	.00	.00
1JAN98	16114.10	666957.19	.00	.00	.00	.00
1FEB98	14649.18	681606.37	.00	.00	.00	.00
1MAR98	16114.10	697720.47	.00	.00	.00	.00
1APR98	16114.10	713834.56	.00	.00	.00	.00
1MAY98	15381.64	729216.20	.00	.00	.00	.00
1JUN98	16114.10	745330.30	.00	.00	.00	.00
1JUL98	16846.56	762176.86	.00	.00	.00	.00
1AUG98	15381.64	777558.50	.00	.00	.00	.00
1SEP98	16114.10	793672.59	.00	.00	.00	.00
1OCT98	.00	793672.59	.00	.00	.00	.00
1NOV98	.00	793672.59	.00	.00	.00	.00
1DEC98	.00	793672.59	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 580  
14:35

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.5 PROGRAM SUPPORT

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	1903676.00	1903676.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	31695.63	1935371.63	.00	.00	.00	.00
1NOV94	30186.32	1965557.96	.00	.00	.00	.00
1DEC94	28677.01	1994234.96	.00	.00	.00	.00
1JAN95	30186.32	2024421.28	.00	.00	.00	.00
1FEB95	28677.01	2053098.29	.00	.00	.00	.00
1MAR95	34714.27	2087812.55	.00	.00	.00	.00
1APR95	28677.01	2116489.56	.00	.00	.00	.00
1MAY95	33204.96	2149694.52	.00	.00	.00	.00
1JUN95	33204.96	2182899.47	.00	.00	.00	.00
1JUL95	30186.32	2213085.79	.00	.00	.00	.00
1AUG95	34714.27	2247800.06	.00	.00	.00	.00
1SEP95	30186.32	2277986.38	.00	.00	.00	.00
1OCT95	33204.96	2311191.34	.00	.00	.00	.00
1NOV95	30186.32	2341377.66	.00	.00	.00	.00
1DEC95	28677.01	2370054.66	.00	.00	.00	.00
1JAN96	30186.32	2400240.98	.00	.00	.00	.00
1FEB96	30186.32	2430427.30	.00	.00	.00	.00
1MAR96	31695.63	2462122.94	.00	.00	.00	.00
1APR96	31695.63	2493818.57	.00	.00	.00	.00
1MAY96	33204.96	2527023.53	.00	.00	.00	.00
1JUN96	30186.32	2557209.85	.00	.00	.00	.00
1JUL96	33204.96	2590414.81	.00	.00	.00	.00
1AUG96	33204.96	2623619.76	.00	.00	.00	.00
1SEP96	30186.32	2653806.08	.00	.00	.00	.00
1OCT96	34714.27	2688520.35	.00	.00	.00	.00
1NOV96	28677.01	2717197.36	.00	.00	.00	.00
1DEC96	28677.01	2745874.36	.00	.00	.00	.00
1JAN97	34714.27	2780588.63	.00	.00	.00	.00
1FEB97	30186.32	2810774.95	.00	.00	.00	.00
1MAR97	31695.63	2842470.58	.00	.00	.00	.00
1APR97	51723.00	2894193.58	.00	.00	.00	.00
1MAY97	51723.00	2945916.58	.00	.00	.00	.00
1JUN97	49371.96	2995288.54	.00	.00	.00	.00
1JUL97	54074.05	3049362.59	.00	.00	.00	.00
1AUG97	49371.96	3098734.55	.00	.00	.00	.00
1SEP97	51723.00	3150457.55	.00	.00	.00	.00
1OCT97	34113.16	3184570.71	.00	.00	.00	.00
1NOV97	26166.92	3210737.63	.00	.00	.00	.00
1DEC97	30091.95	3240829.58	.00	.00	.00	.00
1JAN98	28783.61	3269613.19	.00	.00	.00	.00
1FEB98	26166.92	3295780.10	.00	.00	.00	.00
1MAR98	28783.61	3324563.71	.00	.00	.00	.00
1APR98	12509.31	3337073.02	.00	.00	.00	.00
1MAY98	11940.70	3349013.72	.00	.00	.00	.00
1JUN98	12509.31	3361523.03	.00	.00	.00	.00
1JUL98	13077.92	3374600.95	.00	.00	.00	.00
1AUG98	11940.70	3386541.65	.00	.00	.00	.00
1SEP98	12509.31	3399050.96	.00	.00	.00	.00
1OCT98	.00	3399050.96	.00	.00	.00	.00
1NOV98	.00	3399050.96	.00	.00	.00	.00
1DEC98	.00	3399050.96	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 637  
15:24

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.5 PROGRAM SUPPORT - PROCUREMENTS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROC	O - PROCUREMENT DOLLARS - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	2498.39	2498.39	.00	.00	.00	.00
1NOV94	2379.42	4877.81	.00	.00	.00	.00
1DEC94	2260.45	7138.26	.00	.00	.00	.00
1JAN95	2379.42	9517.68	.00	.00	.00	.00
1FEB95	2260.45	11778.14	.00	.00	.00	.00
1MAR95	2736.33	14514.47	.00	.00	.00	.00
1APR95	2260.45	16774.92	.00	.00	.00	.00
1MAY95	2617.36	19392.28	.00	.00	.00	.00
1JUN95	2617.36	22009.65	.00	.00	.00	.00
1JUL95	2379.42	24389.07	.00	.00	.00	.00
1AUG95	2736.33	27125.40	.00	.00	.00	.00
1SEP95	2379.42	29504.82	.00	.00	.00	.00
1OCT95	2617.36	32122.19	.00	.00	.00	.00
1NOV95	2379.42	34501.61	.00	.00	.00	.00
1DEC95	2260.45	36762.06	.00	.00	.00	.00
1JAN96	2379.42	39141.48	.00	.00	.00	.00
1FEB96	2379.42	41520.90	.00	.00	.00	.00
1MAR96	2498.39	44019.29	.00	.00	.00	.00
1APR96	2498.39	46517.68	.00	.00	.00	.00
1MAY96	2617.36	49135.05	.00	.00	.00	.00
1JUN96	2379.42	51514.47	.00	.00	.00	.00
1JUL96	2617.36	54131.83	.00	.00	.00	.00
1AUG96	2617.36	56749.20	.00	.00	.00	.00
1SEP96	2379.42	59128.62	.00	.00	.00	.00
1OCT96	2736.33	61864.95	.00	.00	.00	.00
1NOV96	2260.45	64125.40	.00	.00	.00	.00
1DEC96	2260.45	66385.85	.00	.00	.00	.00
1JAN97	2736.33	69122.19	.00	.00	.00	.00
1FEB97	2379.42	71501.61	.00	.00	.00	.00
1MAR97	2498.39	74000.00	.00	.00	.00	.00
1APR97	7221.37	81221.37	.00	.00	.00	.00
1MAY97	7221.37	88442.75	.00	.00	.00	.00
1JUN97	6893.13	95335.88	.00	.00	.00	.00
1JUL97	7549.62	102885.50	.00	.00	.00	.00
1AUG97	6893.13	109778.63	.00	.00	.00	.00
1SEP97	7221.37	117000.00	.00	.00	.00	.00
1OCT97	3715.38	120715.38	.00	.00	.00	.00
1NOV97	3230.77	123946.15	.00	.00	.00	.00
1DEC97	3715.38	127661.54	.00	.00	.00	.00
1JAN98	3553.85	131215.38	.00	.00	.00	.00
1FEB98	3230.77	134446.15	.00	.00	.00	.00
1MAR98	3553.85	138000.00	.00	.00	.00	.00
1APR98	1679.39	139679.39	.00	.00	.00	.00
1MAY98	1603.05	141282.44	.00	.00	.00	.00
1JUN98	1679.39	142961.83	.00	.00	.00	.00
1JUL98	1755.73	144717.56	.00	.00	.00	.00
1AUG98	1603.05	146320.61	.00	.00	.00	.00
1SEP98	1679.39	148000.00	.00	.00	.00	.00
1OCT98	.00	148000.00	.00	.00	.00	.00
1NOV98	.00	148000.00	.00	.00	.00	.00
1DEC98	.00	148000.00	.00	.00	.00	.00

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
EXP	O - MISC EXPENSES - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	10445.21	10445.21	.00	.00	.00	.00
1NOV94	9947.82	20393.03	.00	.00	.00	.00
1DEC94	9450.43	29843.46	.00	.00	.00	.00
1JAN95	9947.82	39791.28	.00	.00	.00	.00
1FEB95	9450.43	49241.71	.00	.00	.00	.00
1MAR95	11439.99	60681.70	.00	.00	.00	.00
1APR95	9450.43	70132.13	.00	.00	.00	.00
1MAY95	10942.60	81074.73	.00	.00	.00	.00
1JUN95	10942.60	92017.33	.00	.00	.00	.00
1JUL95	9947.82	101965.15	.00	.00	.00	.00
1AUG95	11439.99	113405.14	.00	.00	.00	.00
1SEP95	9947.82	123352.96	.00	.00	.00	.00
1OCT95	10942.60	134295.56	.00	.00	.00	.00
1NOV95	9947.82	144243.38	.00	.00	.00	.00
1DEC95	9450.43	153693.81	.00	.00	.00	.00
1JAN96	9947.82	163641.63	.00	.00	.00	.00
1FEB96	9947.82	173589.45	.00	.00	.00	.00
1MAR96	10445.21	184034.66	.00	.00	.00	.00
1APR96	10445.21	194479.87	.00	.00	.00	.00
1MAY96	10942.60	205422.47	.00	.00	.00	.00
1JUN96	9947.82	215370.29	.00	.00	.00	.00
1JUL96	10942.60	226312.89	.00	.00	.00	.00
1AUG96	10942.60	237255.49	.00	.00	.00	.00
1SEP96	9947.82	247203.31	.00	.00	.00	.00
1OCT96	11439.99	258643.30	.00	.00	.00	.00
1NOV96	9450.43	268093.73	.00	.00	.00	.00
1DEC96	9450.43	277544.16	.00	.00	.00	.00
1JAN97	11439.99	288984.15	.00	.00	.00	.00
1FEB97	9947.82	298931.97	.00	.00	.00	.00
1MAR97	10445.21	309377.18	.00	.00	.00	.00
1APR97	12464.14	321841.31	.00	.00	.00	.00
1MAY97	12464.14	334305.45	.00	.00	.00	.00
1JUN97	11897.58	346203.03	.00	.00	.00	.00
1JUL97	13030.69	359233.72	.00	.00	.00	.00
1AUG97	11897.58	371131.30	.00	.00	.00	.00
1SEP97	12464.14	383595.44	.00	.00	.00	.00
1OCT97	9345.35	392940.79	.00	.00	.00	.00
1NOV97	8126.39	401067.19	.00	.00	.00	.00
1DEC97	9345.35	410412.54	.00	.00	.00	.00
1JAN98	8939.03	419351.58	.00	.00	.00	.00
1FEB98	8126.39	427477.97	.00	.00	.00	.00
1MAR98	8939.03	436417.00	.00	.00	.00	.00
1APR98	2239.97	438656.97	.00	.00	.00	.00
1MAY98	2138.15	440795.13	.00	.00	.00	.00
1JUN98	2239.97	443035.10	.00	.00	.00	.00
1JUL98	2341.79	445376.88	.00	.00	.00	.00
1AUG98	2138.15	447515.04	.00	.00	.00	.00
1SEP98	2239.97	449755.00	.00	.00	.00	.00
1OCT98	.00	449755.00	.00	.00	.00	.00
1NOV98	.00	449755.00	.00	.00	.00	.00
1DEC98	.00	449755.00	.00	.00	.00	.00

PERIOD BEGINNING	----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	11394.00	11394.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	8194.97	19588.97	.00	.00	.00	.00
1NOV94	7804.73	27393.70	.00	.00	.00	.00
1DEC94	7414.50	34808.20	.00	.00	.00	.00
1JAN95	7804.73	42612.94	.00	.00	.00	.00
1FEB95	7414.50	50027.43	.00	.00	.00	.00
1MAR95	8975.44	59002.88	.00	.00	.00	.00
1APR95	7414.50	66417.37	.00	.00	.00	.00
1MAY95	8585.21	75002.58	.00	.00	.00	.00
1JUN95	8585.21	83587.79	.00	.00	.00	.00
1JUL95	7804.73	91392.52	.00	.00	.00	.00
1AUG95	8975.44	100367.96	.00	.00	.00	.00
1SEP95	7804.73	108172.70	.00	.00	.00	.00
1OCT95	8585.21	116757.91	.00	.00	.00	.00
1NOV95	7804.73	124562.64	.00	.00	.00	.00
1DEC95	7414.50	131977.14	.00	.00	.00	.00
1JAN96	7804.73	139781.87	.00	.00	.00	.00
1FEB96	7804.73	147586.60	.00	.00	.00	.00
1MAR96	8194.97	155781.57	.00	.00	.00	.00
1APR96	8194.97	163976.55	.00	.00	.00	.00
1MAY96	8585.21	172561.75	.00	.00	.00	.00
1JUN96	7804.73	180366.49	.00	.00	.00	.00
1JUL96	8585.21	188951.69	.00	.00	.00	.00
1AUG96	8585.21	197536.90	.00	.00	.00	.00
1SEP96	7804.73	205341.63	.00	.00	.00	.00
1OCT96	8975.44	214317.08	.00	.00	.00	.00
1NOV96	7414.50	221731.57	.00	.00	.00	.00
1DEC96	7414.50	229146.07	.00	.00	.00	.00
1JAN97	8975.44	238121.52	.00	.00	.00	.00
1FEB97	7804.73	245926.25	.00	.00	.00	.00
1MAR97	8194.97	254121.22	.00	.00	.00	.00
1APR97	8585.21	262706.43	.00	.00	.00	.00
1MAY97	8585.21	271291.63	.00	.00	.00	.00
1JUN97	8194.97	279486.60	.00	.00	.00	.00
1JUL97	8975.44	288462.05	.00	.00	.00	.00
1AUG97	8194.97	296657.02	.00	.00	.00	.00
1SEP97	8585.21	305242.23	.00	.00	.00	.00
1OCT97	8975.44	314217.67	.00	.00	.00	.00
1NOV97	7804.73	322022.40	.00	.00	.00	.00
1DEC97	8975.44	330997.85	.00	.00	.00	.00
1JAN98	8585.21	339583.05	.00	.00	.00	.00
1FEB98	7804.73	347387.79	.00	.00	.00	.00
1MAR98	8585.21	355972.99	.00	.00	.00	.00
1APR98	8585.21	364558.20	.00	.00	.00	.00
1MAY98	8194.97	372753.17	.00	.00	.00	.00
1JUN98	8585.21	381338.38	.00	.00	.00	.00
1JUL98	8975.44	390313.82	.00	.00	.00	.00
1AUG98	8194.97	398508.79	.00	.00	.00	.00
1SEP98	8585.21	407094.00	.00	.00	.00	.00
1OCT98	.00	407094.00	.00	.00	.00	.00
1NOV98	.00	407094.00	.00	.00	.00	.00
1DEC98	.00	407094.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 635  
15:21

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.6 PUBLIC PARTICIPATION - PROCUREMENTS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROC O - PROCUREMENT DOLLARS - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1226.04	1226.04	.00	.00	.00	.00
1NOV94	1167.65	2393.69	.00	.00	.00	.00
1DEC94	1109.27	3502.96	.00	.00	.00	.00
1JAN95	1167.65	4670.61	.00	.00	.00	.00
1FEB95	1109.27	5779.88	.00	.00	.00	.00
1MAR95	1342.80	7122.68	.00	.00	.00	.00
1APR95	1109.27	8231.95	.00	.00	.00	.00
1MAY95	1284.42	9516.37	.00	.00	.00	.00
1JUN95	1284.42	10800.79	.00	.00	.00	.00
1JUL95	1167.65	11968.44	.00	.00	.00	.00
1AUG95	1342.80	13311.24	.00	.00	.00	.00
1SEP95	1167.65	14478.90	.00	.00	.00	.00
1OCT95	1284.42	15763.31	.00	.00	.00	.00
1NOV95	1167.65	16930.97	.00	.00	.00	.00
1DEC95	1109.27	18040.24	.00	.00	.00	.00
1JAN96	1167.65	19207.89	.00	.00	.00	.00
1FEB96	1167.65	20375.54	.00	.00	.00	.00
1MAR96	1226.04	21601.58	.00	.00	.00	.00
1APR96	1226.04	22827.61	.00	.00	.00	.00
1MAY96	1284.42	24112.03	.00	.00	.00	.00
1JUN96	1167.65	25279.68	.00	.00	.00	.00
1JUL96	1284.42	26564.10	.00	.00	.00	.00
1AUG96	1284.42	27848.52	.00	.00	.00	.00
1SEP96	1167.65	29016.17	.00	.00	.00	.00
1OCT96	1342.80	30358.97	.00	.00	.00	.00
1NOV96	1109.27	31468.24	.00	.00	.00	.00
1DEC96	1109.27	32577.51	.00	.00	.00	.00
1JAN97	1342.80	33920.32	.00	.00	.00	.00
1FEB97	1167.65	35087.97	.00	.00	.00	.00
1MAR97	1226.04	36314.00	.00	.00	.00	.00
1APR97	1284.42	37598.42	.00	.00	.00	.00
1MAY97	1284.42	38882.84	.00	.00	.00	.00
1JUN97	1226.04	40108.88	.00	.00	.00	.00
1JUL97	1342.80	41451.68	.00	.00	.00	.00
1AUG97	1226.04	42677.71	.00	.00	.00	.00
1SEP97	1284.42	43962.13	.00	.00	.00	.00
1OCT97	1342.80	45304.93	.00	.00	.00	.00
1NOV97	1167.65	46472.58	.00	.00	.00	.00
1DEC97	1342.80	47815.38	.00	.00	.00	.00
1JAN98	1284.42	49099.80	.00	.00	.00	.00
1FEB98	1167.65	50267.46	.00	.00	.00	.00
1MAR98	1284.42	51551.87	.00	.00	.00	.00
1APR98	1284.42	52836.29	.00	.00	.00	.00
1MAY98	1226.04	54062.33	.00	.00	.00	.00
1JUN98	1284.42	55346.74	.00	.00	.00	.00
1JUL98	1342.80	56689.55	.00	.00	.00	.00
1AUG98	1226.04	57915.58	.00	.00	.00	.00
1SEP98	1284.42	59200.00	.00	.00	.00	.00
1OCT98	.00	59200.00	.00	.00	.00	.00
1NOV98	.00	59200.00	.00	.00	.00	.00
1DEC98	.00	59200.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 634  
15:20

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.6 PUBLIC PARTICIPATION - EXPENSES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---		
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE	
EXP	O - MISC EXPENSES - OPEX						UNIT OF MEASURE = COST
1JUL94	.00	.00	.00	.00	.00	.00	
1AUG94	.00	.00	.00	.00	.00	.00	
1SEP94	.00	.00	.00	.00	.00	.00	
***DATA DATE***							
1OCT94	6968.94	6968.94	.00	.00	.00	.00	
1NOV94	6637.08	13606.02	.00	.00	.00	.00	
1DEC94	6305.23	19911.24	.00	.00	.00	.00	
1JAN95	6637.08	26548.32	.00	.00	.00	.00	
1FEB95	6305.23	32853.55	.00	.00	.00	.00	
1MAR95	7632.64	40486.19	.00	.00	.00	.00	
1APR95	6305.23	46791.42	.00	.00	.00	.00	
1MAY95	7300.79	54092.21	.00	.00	.00	.00	
1JUN95	7300.79	61393.00	.00	.00	.00	.00	
1JUL95	6637.08	68030.08	.00	.00	.00	.00	
1AUG95	7632.64	75662.72	.00	.00	.00	.00	
1SEP95	6637.08	82299.80	.00	.00	.00	.00	
1OCT95	7300.79	89600.59	.00	.00	.00	.00	
1NOV95	6637.08	96237.67	.00	.00	.00	.00	
1DEC95	6305.23	102542.90	.00	.00	.00	.00	
1JAN96	6637.08	109179.98	.00	.00	.00	.00	
1FEB96	6637.08	115817.06	.00	.00	.00	.00	
1MAR96	6968.94	122786.00	.00	.00	.00	.00	
1APR96	6968.94	129754.93	.00	.00	.00	.00	
1MAY96	7300.79	137055.72	.00	.00	.00	.00	
1JUN96	6637.08	143692.80	.00	.00	.00	.00	
1JUL96	7300.79	150993.59	.00	.00	.00	.00	
1AUG96	7300.79	158294.38	.00	.00	.00	.00	
1SEP96	6637.08	164931.46	.00	.00	.00	.00	
1OCT96	7632.64	172564.11	.00	.00	.00	.00	
1NOV96	6305.23	178869.33	.00	.00	.00	.00	
1DEC96	6305.23	185174.56	.00	.00	.00	.00	
1JAN97	7632.64	192807.20	.00	.00	.00	.00	
1FEB97	6637.08	199444.28	.00	.00	.00	.00	
1MAR97	6968.94	206413.22	.00	.00	.00	.00	
1APR97	7300.79	213714.01	.00	.00	.00	.00	
1MAY97	7300.79	221014.80	.00	.00	.00	.00	
1JUN97	6968.94	227983.73	.00	.00	.00	.00	
1JUL97	7632.64	235616.38	.00	.00	.00	.00	
1AUG97	6968.94	242585.31	.00	.00	.00	.00	
1SEP97	7300.79	249886.10	.00	.00	.00	.00	
1OCT97	7632.64	257518.74	.00	.00	.00	.00	
1NOV97	6637.08	264155.82	.00	.00	.00	.00	
1DEC97	7632.64	271788.47	.00	.00	.00	.00	
1JAN98	7300.79	279089.26	.00	.00	.00	.00	
1FEB98	6637.08	285726.34	.00	.00	.00	.00	
1MAR98	7300.79	293027.13	.00	.00	.00	.00	
1APR98	7300.79	300327.92	.00	.00	.00	.00	
1MAY98	6968.94	307296.85	.00	.00	.00	.00	
1JUN98	7300.79	314597.64	.00	.00	.00	.00	
1JUL98	7632.64	322230.28	.00	.00	.00	.00	
1AUG98	6968.94	329199.22	.00	.00	.00	.00	
1SEP98	7300.79	336500.01	.00	.00	.00	.00	
1OCT98	.00	336500.01	.00	.00	.00	.00	
1NOV98	.00	336500.01	.00	.00	.00	.00	
1DEC98	.00	336500.01	.00	.00	.00	.00	

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	483000.00	.00	.00	.00	.00
1AUG94	.00	483000.00	.00	.00	.00	.00
1SEP94	1753892.00	2236892.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	2236892.00	.00	.00	.00	.00
1NOV94	.00	2236892.00	.00	.00	.00	.00
1DEC94	.00	2236892.00	.00	.00	.00	.00
1JAN95	.00	2236892.00	.00	.00	.00	.00
1FEB95	.00	2236892.00	.00	.00	.00	.00
1MAR95	.00	2236892.00	.00	.00	.00	.00
1APR95	.00	2236892.00	.00	.00	.00	.00
1MAY95	.00	2236892.00	.00	.00	.00	.00
1JUN95	.00	2236892.00	.00	.00	.00	.00
1JUL95	.00	2236892.00	.00	.00	.00	.00
1AUG95	.00	2236892.00	.00	.00	.00	.00
1SEP95	.00	2236892.00	.00	.00	.00	.00
1OCT95	.00	2236892.00	.00	.00	.00	.00
1NOV95	.00	2236892.00	.00	.00	.00	.00
1DEC95	.00	2236892.00	.00	.00	.00	.00
1JAN96	.00	2236892.00	.00	.00	.00	.00
1FEB96	.00	2236892.00	.00	.00	.00	.00
1MAR96	.00	2236892.00	.00	.00	.00	.00
1APR96	.00	2236892.00	.00	.00	.00	.00
1MAY96	.00	2236892.00	.00	.00	.00	.00
1JUN96	.00	2236892.00	.00	.00	.00	.00
1JUL96	.00	2236892.00	.00	.00	.00	.00
1AUG96	.00	2236892.00	.00	.00	.00	.00
1SEP96	.00	2236892.00	.00	.00	.00	.00
1OCT96	.00	2236892.00	.00	.00	.00	.00
1NOV96	.00	2236892.00	.00	.00	.00	.00
1DEC96	.00	2236892.00	.00	.00	.00	.00
1JAN97	.00	2236892.00	.00	.00	.00	.00
1FEB97	.00	2236892.00	.00	.00	.00	.00
1MAR97	.00	2236892.00	.00	.00	.00	.00
1APR97	.00	2236892.00	.00	.00	.00	.00
1MAY97	.00	2236892.00	.00	.00	.00	.00
1JUN97	.00	2236892.00	.00	.00	.00	.00
1JUL97	.00	2236892.00	.00	.00	.00	.00
1AUG97	.00	2236892.00	.00	.00	.00	.00
1SEP97	.00	2236892.00	.00	.00	.00	.00
1OCT97	.00	2236892.00	.00	.00	.00	.00
1NOV97	.00	2236892.00	.00	.00	.00	.00
1DEC97	.00	2236892.00	.00	.00	.00	.00
1JAN98	.00	2236892.00	.00	.00	.00	.00
1FEB98	.00	2236892.00	.00	.00	.00	.00
1MAR98	.00	2236892.00	.00	.00	.00	.00
1APR98	.00	2236892.00	.00	.00	.00	.00
1MAY98	.00	2236892.00	.00	.00	.00	.00
1JUN98	.00	2236892.00	.00	.00	.00	.00
1JUL98	.00	2236892.00	.00	.00	.00	.00
1AUG98	.00	2236892.00	.00	.00	.00	.00
1SEP98	.00	2236892.00	.00	.00	.00	.00
1OCT98	.00	2236892.00	.00	.00	.00	.00
1NOV98	.00	2236892.00	.00	.00	.00	.00
1DEC98	.00	2236892.00	.00	.00	.00	.00

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	14821.40	14821.40	.00	.00	.00	.00
1MAY95	17161.63	31983.03	.00	.00	.00	.00
1JUN95	17161.63	49144.65	.00	.00	.00	.00
1JUL95	15601.48	64746.13	.00	.00	.00	.00
1AUG95	17941.70	82687.83	.00	.00	.00	.00
1SEP95	15601.48	98289.31	.00	.00	.00	.00
1OCT95	17161.63	115450.93	.00	.00	.00	.00
1NOV95	15601.48	131052.41	.00	.00	.00	.00
1DEC95	27778.96	158831.38	.00	.00	.00	.00
1JAN96	29241.02	188072.39	.00	.00	.00	.00
1FEB96	29241.02	217313.41	.00	.00	.00	.00
1MAR96	30703.06	248016.47	.00	.00	.00	.00
1APR96	30703.06	278719.54	.00	.00	.00	.00
1MAY96	17161.63	295881.16	.00	.00	.00	.00
1JUN96	15601.48	311482.64	.00	.00	.00	.00
1JUL96	17161.63	328644.26	.00	.00	.00	.00
1AUG96	17161.63	345805.89	.00	.00	.00	.00
1SEP96	15601.48	361407.37	.00	.00	.00	.00
1OCT96	29018.15	390425.51	.00	.00	.00	.00
1NOV96	23971.51	414397.03	.00	.00	.00	.00
1DEC96	23971.51	438368.54	.00	.00	.00	.00
1JAN97	28536.56	466905.10	.00	.00	.00	.00
1FEB97	15601.48	482506.58	.00	.00	.00	.00
1MAR97	52572.38	535078.96	.00	.00	.00	.00
1APR97	55075.82	590154.78	.00	.00	.00	.00
1MAY97	161822.30	751977.07	.00	.00	.00	.00
1JUN97	154466.70	906443.78	.00	.00	.00	.00
1JUL97	185202.94	1091646.71	.00	.00	.00	.00
1AUG97	169098.31	1260745.03	.00	.00	.00	.00
1SEP97	84794.10	1345539.13	.00	.00	.00	.00
1OCT97	178875.67	1524414.80	.00	.00	.00	.00
1NOV97	81810.05	1606224.85	.00	.00	.00	.00
1DEC97	94081.55	1700306.40	.00	.00	.00	.00
1JAN98	.00	1700306.40	.00	.00	.00	.00
1FEB98	.00	1700306.40	.00	.00	.00	.00
1MAR98	.00	1700306.40	.00	.00	.00	.00
1APR98	.00	1700306.40	.00	.00	.00	.00
1MAY98	.00	1700306.40	.00	.00	.00	.00
1JUN98	.00	1700306.40	.00	.00	.00	.00
1JUL98	.00	1700306.40	.00	.00	.00	.00
1AUG98	.00	1700306.40	.00	.00	.00	.00
1SEP98	.00	1700306.40	.00	.00	.00	.00
1OCT98	.00	1700306.40	.00	.00	.00	.00
1NOV98	.00	1700306.40	.00	.00	.00	.00
1DEC98	.00	1700306.40	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 632  
15:18

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.2.2 PLANT START-UP MANAGEMENT - PROCURES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1. SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROC	O - PROCUREMENT DOLLARS - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	702.09	702.09	.00	.00	.00	.00
1MAY95	812.94	1515.03	.00	.00	.00	.00
1JUN95	812.94	2327.97	.00	.00	.00	.00
1JUL95	739.04	3067.01	.00	.00	.00	.00
1AUG95	849.90	3916.91	.00	.00	.00	.00
1SEP95	739.04	4655.95	.00	.00	.00	.00
1OCT95	812.94	5468.89	.00	.00	.00	.00
1NOV95	739.04	6207.93	.00	.00	.00	.00
1DEC95	702.09	6910.02	.00	.00	.00	.00
1JAN96	739.04	7649.06	.00	.00	.00	.00
1FEB96	739.04	8388.10	.00	.00	.00	.00
1MAR96	775.99	9164.09	.00	.00	.00	.00
1APR96	775.99	9940.08	.00	.00	.00	.00
1MAY96	812.94	10753.03	.00	.00	.00	.00
1JUN96	739.04	11492.07	.00	.00	.00	.00
1JUL96	812.94	12305.01	.00	.00	.00	.00
1AUG96	812.94	13117.95	.00	.00	.00	.00
1SEP96	739.04	13856.99	.00	.00	.00	.00
1OCT96	849.90	14706.89	.00	.00	.00	.00
1NOV96	702.09	15408.98	.00	.00	.00	.00
1DEC96	702.09	16111.06	.00	.00	.00	.00
1JAN97	849.90	16960.96	.00	.00	.00	.00
1FEB97	739.04	17700.00	.00	.00	.00	.00
1MAR97	6006.98	23706.98	.00	.00	.00	.00
1APR97	6293.02	30000.00	.00	.00	.00	.00
1MAY97	6293.02	36293.02	.00	.00	.00	.00
1JUN97	6006.98	42300.00	.00	.00	.00	.00
1JUL97	.00	42300.00	.00	.00	.00	.00
1AUG97	.00	42300.00	.00	.00	.00	.00
1SEP97	.00	42300.00	.00	.00	.00	.00
1OCT97	.00	42300.00	.00	.00	.00	.00
1NOV97	.00	42300.00	.00	.00	.00	.00
1DEC97	.00	42300.00	.00	.00	.00	.00
1JAN98	.00	42300.00	.00	.00	.00	.00
1FEB98	.00	42300.00	.00	.00	.00	.00
1MAR98	.00	42300.00	.00	.00	.00	.00
1APR98	.00	42300.00	.00	.00	.00	.00
1MAY98	.00	42300.00	.00	.00	.00	.00
1JUN98	.00	42300.00	.00	.00	.00	.00
1JUL98	.00	42300.00	.00	.00	.00	.00
1AUG98	.00	42300.00	.00	.00	.00	.00
1SEP98	.00	42300.00	.00	.00	.00	.00
1OCT98	.00	42300.00	.00	.00	.00	.00
1NOV98	.00	42300.00	.00	.00	.00	.00
1DEC98	.00	42300.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 631  
15:17

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.2.2 PLANT START-UP MANAGEMENT - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---		
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE	
	EXP 0 - MISC EXPENSES - OPEX						
	UNIT OF MEASURE = COST						
1JUL94	.00	.00	.00	.00	.00	.00	
1AUG94	.00	.00	.00	.00	.00	.00	
1SEP94	.00	.00	.00	.00	.00	.00	
***DATA DATE***							
1OCT94	.00	.00	.00	.00	.00	.00	
1NOV94	.00	.00	.00	.00	.00	.00	
1DEC94	.00	.00	.00	.00	.00	.00	
1JAN95	.00	.00	.00	.00	.00	.00	
1FEB95	.00	.00	.00	.00	.00	.00	
1MAR95	.00	.00	.00	.00	.00	.00	
1APR95	2792.48	2792.48	.00	.00	.00	.00	
1MAY95	3233.40	6025.89	.00	.00	.00	.00	
1JUN95	3233.40	9259.29	.00	.00	.00	.00	
1JUL95	2939.46	12198.75	.00	.00	.00	.00	
1AUG95	3380.38	15579.12	.00	.00	.00	.00	
1SEP95	2939.46	18518.58	.00	.00	.00	.00	
1OCT95	3233.40	21751.98	.00	.00	.00	.00	
1NOV95	2939.46	24691.44	.00	.00	.00	.00	
1DEC95	7175.65	31867.09	.00	.00	.00	.00	
1JAN96	7553.32	39420.41	.00	.00	.00	.00	
1FEB96	7553.32	46973.73	.00	.00	.00	.00	
1MAR96	7930.98	54904.72	.00	.00	.00	.00	
1APR96	7930.98	62835.70	.00	.00	.00	.00	
1MAY96	3233.40	66069.10	.00	.00	.00	.00	
1JUN96	2939.46	69008.56	.00	.00	.00	.00	
1JUL96	3233.40	72241.96	.00	.00	.00	.00	
1AUG96	3233.40	75475.37	.00	.00	.00	.00	
1SEP96	2939.46	78414.82	.00	.00	.00	.00	
1OCT96	4405.68	82820.50	.00	.00	.00	.00	
1NOV96	3639.47	86459.97	.00	.00	.00	.00	
1DEC96	3639.47	90099.45	.00	.00	.00	.00	
1JAN97	4361.10	94460.54	.00	.00	.00	.00	
1FEB97	2939.46	97400.00	.00	.00	.00	.00	
1MAR97	7594.19	104994.19	.00	.00	.00	.00	
1APR97	7955.81	112950.00	.00	.00	.00	.00	
1MAY97	28736.81	141686.81	.00	.00	.00	.00	
1JUN97	27430.59	169117.40	.00	.00	.00	.00	
1JUL97	34009.68	203127.08	.00	.00	.00	.00	
1AUG97	31052.31	234179.39	.00	.00	.00	.00	
1SEP97	13110.31	247289.70	.00	.00	.00	.00	
1OCT97	27328.49	274618.18	.00	.00	.00	.00	
1NOV97	12363.64	286981.82	.00	.00	.00	.00	
1DEC97	14218.18	301200.00	.00	.00	.00	.00	
1JAN98	.00	301200.00	.00	.00	.00	.00	
1FEB98	.00	301200.00	.00	.00	.00	.00	
1MAR98	.00	301200.00	.00	.00	.00	.00	
1APR98	.00	301200.00	.00	.00	.00	.00	
1MAY98	.00	301200.00	.00	.00	.00	.00	
1JUN98	.00	301200.00	.00	.00	.00	.00	
1JUL98	.00	301200.00	.00	.00	.00	.00	
1AUG98	.00	301200.00	.00	.00	.00	.00	
1SEP98	.00	301200.00	.00	.00	.00	.00	
1OCT98	.00	301200.00	.00	.00	.00	.00	
1NOV98	.00	301200.00	.00	.00	.00	.00	
1DEC98	.00	301200.00	.00	.00	.00	.00	

REPORT DATE 12APR95 RUN NO. 584  
 14:37  
 WBS 1.2.3 ACTIVATION

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98  
 DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	.00	.00	.00	.00	.00	.00
1AUG96	.00	.00	.00	.00	.00	.00
1SEP96	.00	.00	.00	.00	.00	.00
1OCT96	.00	.00	.00	.00	.00	.00
1NOV96	.00	.00	.00	.00	.00	.00
1DEC96	.00	.00	.00	.00	.00	.00
1JAN97	.00	.00	.00	.00	.00	.00
1FEB97	.00	.00	.00	.00	.00	.00
1MAR97	5609.84	5609.84	.00	.00	.00	.00
1APR97	5876.97	11486.81	.00	.00	.00	.00
1MAY97	5876.97	17363.78	.00	.00	.00	.00
1JUN97	5609.84	22973.62	.00	.00	.00	.00
1JUL97	191314.02	214287.63	.00	.00	.00	.00
1AUG97	180709.42	394997.06	.00	.00	.00	.00
1SEP97	189314.64	584311.70	.00	.00	.00	.00
1OCT97	259529.03	843840.73	.00	.00	.00	.00
1NOV97	225677.44	1069518.17	.00	.00	.00	.00
1DEC97	252923.22	1322441.38	.00	.00	.00	.00
1JAN98	471144.19	1793585.57	.00	.00	.00	.00
1FEB98	454160.28	2247745.85	.00	.00	.00	.00
1MAR98	499576.41	2747322.26	.00	.00	.00	.00
1APR98	499576.41	3246898.67	.00	.00	.00	.00
1MAY98	238610.11	3485508.78	.00	.00	.00	.00
1JUN98	249972.55	3735481.32	.00	.00	.00	.00
1JUL98	169473.88	3904955.20	.00	.00	.00	.00
1AUG98	154737.00	4059692.20	.00	.00	.00	.00
1SEP98	162105.44	4221797.63	.00	.00	.00	.00
1OCT98	.00	4221797.63	.00	.00	.00	.00
1NOV98	.00	4221797.63	.00	.00	.00	.00
1DEC98	.00	4221797.63	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROC	O - PROCUREMENT DOLLARS - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	.00	.00	.00	.00	.00	.00
1AUG96	.00	.00	.00	.00	.00	.00
1SEP96	.00	.00	.00	.00	.00	.00
1OCT96	.00	.00	.00	.00	.00	.00
1NOV96	.00	.00	.00	.00	.00	.00
1DEC96	.00	.00	.00	.00	.00	.00
1JAN97	.00	.00	.00	.00	.00	.00
1FEB97	.00	.00	.00	.00	.00	.00
1MAR97	.00	.00	.00	.00	.00	.00
1APR97	.00	.00	.00	.00	.00	.00
1MAY97	.00	.00	.00	.00	.00	.00
1JUN97	.00	.00	.00	.00	.00	.00
1JUL97	29244.49	29244.49	.00	.00	.00	.00
1AUG97	32732.88	61977.37	.00	.00	.00	.00
1SEP97	34291.59	96268.97	.00	.00	.00	.00
1OCT97	41653.38	137922.35	.00	.00	.00	.00
1NOV97	36220.33	174142.68	.00	.00	.00	.00
1DEC97	35047.57	209190.24	.00	.00	.00	.00
1JAN98	49366.58	258556.82	.00	.00	.00	.00
1FEB98	46121.13	304677.96	.00	.00	.00	.00
1MAR98	50733.25	355411.20	.00	.00	.00	.00
1APR98	50733.25	406144.45	.00	.00	.00	.00
1MAY98	40242.32	446386.77	.00	.00	.00	.00
1JUN98	42158.63	488545.40	.00	.00	.00	.00
1JUL98	15456.91	504002.31	.00	.00	.00	.00
1AUG98	14112.83	518115.14	.00	.00	.00	.00
1SEP98	14784.87	532900.01	.00	.00	.00	.00
1OCT98	.00	532900.01	.00	.00	.00	.00
1NOV98	.00	532900.01	.00	.00	.00	.00
1DEC98	.00	532900.01	.00	.00	.00	.00

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
EXP	O - MISC EXPENSES - OPEX		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	.00	.00	.00	.00	.00	.00
1AUG96	.00	.00	.00	.00	.00	.00
1SEP96	.00	.00	.00	.00	.00	.00
1OCT96	.00	.00	.00	.00	.00	.00
1NOV96	.00	.00	.00	.00	.00	.00
1DEC96	.00	.00	.00	.00	.00	.00
1JAN97	.00	.00	.00	.00	.00	.00
1FEB97	.00	.00	.00	.00	.00	.00
1MAR97	537.21	537.21	.00	.00	.00	.00
1APR97	562.79	1100.00	.00	.00	.00	.00
1MAY97	562.79	1662.79	.00	.00	.00	.00
1JUN97	537.21	2200.00	.00	.00	.00	.00
1JUL97	63160.61	65360.61	.00	.00	.00	.00
1AUG97	57668.38	123028.99	.00	.00	.00	.00
1SEP97	60414.50	183443.49	.00	.00	.00	.00
1OCT97	80463.69	263907.18	.00	.00	.00	.00
1NOV97	69968.43	333875.61	.00	.00	.00	.00
1DEC97	80463.69	414339.29	.00	.00	.00	.00
1JAN98	126024.94	540364.23	.00	.00	.00	.00
1FEB98	119345.18	659709.41	.00	.00	.00	.00
1MAR98	131279.70	790989.11	.00	.00	.00	.00
1APR98	131279.70	922268.82	.00	.00	.00	.00
1MAY98	54589.73	976858.55	.00	.00	.00	.00
1JUN98	57189.25	1034047.79	.00	.00	.00	.00
1JUL98	42080.32	1076128.11	.00	.00	.00	.00
1AUG98	38421.16	1114549.27	.00	.00	.00	.00
1SEP98	40250.74	1154800.00	.00	.00	.00	.00
1OCT98	.00	1154800.00	.00	.00	.00	.00
1NOV98	.00	1154800.00	.00	.00	.00	.00
1DEC98	.00	1154800.00	.00	.00	.00	.00

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	168543.00	168543.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	59619.41	228162.41	.00	.00	.00	.00
1NOV94	56780.38	284942.79	.00	.00	.00	.00
1DEC94	53941.36	338884.16	.00	.00	.00	.00
1JAN95	56780.38	395664.54	.00	.00	.00	.00
1FEB95	53941.36	449605.90	.00	.00	.00	.00
1MAR95	65297.44	514903.34	.00	.00	.00	.00
1APR95	53941.36	568844.71	.00	.00	.00	.00
1MAY95	101400.05	670244.75	.00	.00	.00	.00
1JUN95	101400.05	771644.80	.00	.00	.00	.00
1JUL95	92181.87	863826.67	.00	.00	.00	.00
1AUG95	106009.14	969835.81	.00	.00	.00	.00
1SEP95	60635.34	1030471.15	.00	.00	.00	.00
1OCT95	65994.63	1096465.77	.00	.00	.00	.00
1NOV95	59995.11	1156460.89	.00	.00	.00	.00
1DEC95	56995.36	1213456.24	.00	.00	.00	.00
1JAN96	59995.11	1273451.36	.00	.00	.00	.00
1FEB96	59995.11	1333446.47	.00	.00	.00	.00
1MAR96	62994.88	1396441.34	.00	.00	.00	.00
1APR96	62994.88	1459436.22	.00	.00	.00	.00
1MAY96	65994.63	1525430.84	.00	.00	.00	.00
1JUN96	77944.96	1603375.80	.00	.00	.00	.00
1JUL96	85739.45	1689115.26	.00	.00	.00	.00
1AUG96	85739.45	1774854.71	.00	.00	.00	.00
1SEP96	77944.96	1852799.67	.00	.00	.00	.00
1OCT96	68994.38	1921794.05	.00	.00	.00	.00
1NOV96	56995.36	1978789.41	.00	.00	.00	.00
1DEC96	56995.36	2035784.77	.00	.00	.00	.00
1JAN97	68994.38	2104779.15	.00	.00	.00	.00
1FEB97	59995.11	2164774.26	.00	.00	.00	.00
1MAR97	62994.88	2227769.14	.00	.00	.00	.00
1APR97	60874.04	2288643.18	.00	.00	.00	.00
1MAY97	60874.04	2349517.21	.00	.00	.00	.00
1JUN97	74319.59	2423836.81	.00	.00	.00	.00
1JUL97	81397.65	2505234.46	.00	.00	.00	.00
1AUG97	74319.59	2579554.05	.00	.00	.00	.00
1SEP97	77858.62	2657412.67	.00	.00	.00	.00
1OCT97	62858.05	2720270.71	.00	.00	.00	.00
1NOV97	54659.16	2774929.88	.00	.00	.00	.00
1DEC97	62858.05	2837787.93	.00	.00	.00	.00
1JAN98	60125.08	2897913.00	.00	.00	.00	.00
1FEB98	54659.16	2952572.17	.00	.00	.00	.00
1MAR98	60125.08	3012697.25	.00	.00	.00	.00
1APR98	15517.80	3028215.05	.00	.00	.00	.00
1MAY98	14812.45	3043027.50	.00	.00	.00	.00
1JUN98	15517.80	3058545.30	.00	.00	.00	.00
1JUL98	16223.16	3074768.46	.00	.00	.00	.00
1AUG98	14812.45	3089580.91	.00	.00	.00	.00
1SEP98	15517.80	3105098.71	.00	.00	.00	.00
1OCT98	.00	3105098.71	.00	.00	.00	.00
1NOV98	.00	3105098.71	.00	.00	.00	.00
1DEC98	.00	3105098.71	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 627  
15:13

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.3.1 PROJECT MANAGEMENT - PROCUREMENTS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
10CT94	9314.52	9314.52	.00	.00	.00	.00
1NOV94	8870.97	18185.48	.00	.00	.00	.00
1DEC94	8427.42	26612.90	.00	.00	.00	.00
1JAN95	8870.97	35483.87	.00	.00	.00	.00
1FEB95	8427.42	43911.29	.00	.00	.00	.00
1MAR95	10201.61	54112.90	.00	.00	.00	.00
1APR95	8427.42	62540.32	.00	.00	.00	.00
1MAY95	30670.71	93211.03	.00	.00	.00	.00
1JUN95	30670.71	123881.74	.00	.00	.00	.00
1JUL95	27882.46	151764.20	.00	.00	.00	.00
1AUG95	32064.83	183829.04	.00	.00	.00	.00
1SEP95	8870.97	192700.00	.00	.00	.00	.00
1OCT95	9147.06	201847.06	.00	.00	.00	.00
1NOV95	8315.51	210162.57	.00	.00	.00	.00
1DEC95	7899.73	218062.30	.00	.00	.00	.00
1JAN96	8315.51	226377.81	.00	.00	.00	.00
1FEB96	8315.51	234693.32	.00	.00	.00	.00
1MAR96	8731.28	243424.60	.00	.00	.00	.00
1APR96	8731.28	252155.88	.00	.00	.00	.00
1MAY96	9147.06	261302.94	.00	.00	.00	.00
1JUN96	18160.75	279463.69	.00	.00	.00	.00
1JUL96	19976.82	299440.51	.00	.00	.00	.00
1AUG96	19976.82	319417.33	.00	.00	.00	.00
1SEP96	18160.75	337578.08	.00	.00	.00	.00
1OCT96	9562.83	347140.91	.00	.00	.00	.00
1NOV96	7899.73	355040.64	.00	.00	.00	.00
1DEC96	7899.73	362940.37	.00	.00	.00	.00
1JAN97	9562.83	372503.21	.00	.00	.00	.00
1FEB97	8315.51	380818.72	.00	.00	.00	.00
1MAR97	8731.28	389550.00	.00	.00	.00	.00
1APR97	9656.49	399206.49	.00	.00	.00	.00
1MAY97	9656.49	408862.98	.00	.00	.00	.00
1JUN97	19198.59	428061.57	.00	.00	.00	.00
1JUL97	21027.03	449088.60	.00	.00	.00	.00
1AUG97	19198.59	468287.19	.00	.00	.00	.00
1SEP97	20112.81	488400.00	.00	.00	.00	.00
1OCT97	17780.77	506180.77	.00	.00	.00	.00
1NOV97	15461.54	521642.31	.00	.00	.00	.00
1DEC97	17780.77	539423.08	.00	.00	.00	.00
1JAN98	17007.69	556430.77	.00	.00	.00	.00
1FEB98	15461.54	571892.31	.00	.00	.00	.00
1MAR98	17007.69	588900.00	.00	.00	.00	.00
1APR98	2519.08	591419.08	.00	.00	.00	.00
1MAY98	2404.58	593823.66	.00	.00	.00	.00
1JUN98	2519.08	596342.75	.00	.00	.00	.00
1JUL98	2633.59	598976.33	.00	.00	.00	.00
1AUG98	2404.58	601380.91	.00	.00	.00	.00
1SEP98	2519.08	603900.00	.00	.00	.00	.00
1OCT98	.00	603900.00	.00	.00	.00	.00
1NOV98	.00	603900.00	.00	.00	.00	.00
1DEC98	.00	603900.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 626  
15:12

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.1 PROJECT MANAGEMENT - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	SCHEDULE CUMULATIVE	USAGE	SCHEDULE CUMULATIVE	USAGE	SCHEDULE CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	15731.64	15731.64	.00	.00	.00	.00
1NOV94	14982.52	30714.16	.00	.00	.00	.00
1DEC94	14233.39	44947.55	.00	.00	.00	.00
1JAN95	14982.52	59930.07	.00	.00	.00	.00
1FEB95	14233.39	74163.46	.00	.00	.00	.00
1MAR95	17229.90	91393.36	.00	.00	.00	.00
1APR95	14233.39	105626.75	.00	.00	.00	.00
1MAY95	27623.75	133250.50	.00	.00	.00	.00
1JUN95	27623.75	160874.25	.00	.00	.00	.00
1JUL95	25112.50	185986.75	.00	.00	.00	.00
1AUG95	28879.38	214866.13	.00	.00	.00	.00
1SEP95	15917.10	230783.22	.00	.00	.00	.00
1OCT95	17415.56	248198.78	.00	.00	.00	.00
1NOV95	15832.33	264031.11	.00	.00	.00	.00
1DEC95	15040.71	279071.82	.00	.00	.00	.00
1JAN96	15832.33	294904.15	.00	.00	.00	.00
1FEB96	15832.33	310736.47	.00	.00	.00	.00
1MAR96	16623.94	327360.42	.00	.00	.00	.00
1APR96	16623.94	343984.36	.00	.00	.00	.00
1MAY96	17415.56	361399.92	.00	.00	.00	.00
1JUN96	20594.23	381994.15	.00	.00	.00	.00
1JUL96	22653.66	404647.81	.00	.00	.00	.00
1AUG96	22653.66	427301.46	.00	.00	.00	.00
1SEP96	20594.23	447895.69	.00	.00	.00	.00
1OCT96	18207.18	466102.87	.00	.00	.00	.00
1NOV96	15040.71	481143.58	.00	.00	.00	.00
1DEC96	15040.71	496184.29	.00	.00	.00	.00
1JAN97	18207.18	514391.47	.00	.00	.00	.00
1FEB97	15832.33	530223.79	.00	.00	.00	.00
1MAR97	16623.94	546847.74	.00	.00	.00	.00
1APR97	16328.25	563175.98	.00	.00	.00	.00
1MAY97	16328.25	579504.23	.00	.00	.00	.00
1JUN97	20413.64	599917.87	.00	.00	.00	.00
1JUL97	22357.79	622275.66	.00	.00	.00	.00
1AUG97	20413.64	642689.30	.00	.00	.00	.00
1SEP97	21385.72	664075.02	.00	.00	.00	.00
1OCT97	28442.60	692517.61	.00	.00	.00	.00
1NOV97	24732.69	717250.30	.00	.00	.00	.00
1DEC97	28442.60	745692.90	.00	.00	.00	.00
1JAN98	27205.96	772898.86	.00	.00	.00	.00
1FEB98	24732.69	797631.55	.00	.00	.00	.00
1MAR98	27205.96	824837.51	.00	.00	.00	.00
1APR98	5183.02	830020.53	.00	.00	.00	.00
1MAY98	4947.42	834967.95	.00	.00	.00	.00
1JUN98	5183.02	840150.97	.00	.00	.00	.00
1JUL98	5418.61	845569.57	.00	.00	.00	.00
1AUG98	4947.42	850517.00	.00	.00	.00	.00
1SEP98	5183.02	855700.01	.00	.00	.00	.00
1OCT98	.00	855700.01	.00	.00	.00	.00
1NOV98	.00	855700.01	.00	.00	.00	.00
1DEC98	.00	855700.01	.00	.00	.00	.00

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PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	156886.00	156886.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	40981.21	197867.21	.00	.00	.00	.00
1NOV94	39029.73	236896.95	.00	.00	.00	.00
1DEC94	37078.24	273975.19	.00	.00	.00	.00
1JAN95	39029.73	313004.92	.00	.00	.00	.00
1FEB95	37078.24	350083.16	.00	.00	.00	.00
1MAR95	44884.19	394967.35	.00	.00	.00	.00
1APR95	37078.24	432045.59	.00	.00	.00	.00
1MAY95	42932.70	474978.30	.00	.00	.00	.00
1JUN95	42932.70	517911.00	.00	.00	.00	.00
1JUL95	39029.73	556940.73	.00	.00	.00	.00
1AUG95	44884.19	601824.92	.00	.00	.00	.00
1SEP95	39029.73	640854.65	.00	.00	.00	.00
1OCT95	47181.89	688036.54	.00	.00	.00	.00
1NOV95	42892.62	730929.16	.00	.00	.00	.00
1DEC95	40747.99	771677.15	.00	.00	.00	.00
1JAN96	42892.62	814569.77	.00	.00	.00	.00
1FEB96	42892.62	857462.39	.00	.00	.00	.00
1MAR96	45037.25	902499.64	.00	.00	.00	.00
1APR96	45037.25	947536.89	.00	.00	.00	.00
1MAY96	47181.89	994718.78	.00	.00	.00	.00
1JUN96	42892.62	1037611.40	.00	.00	.00	.00
1JUL96	47181.89	1084793.29	.00	.00	.00	.00
1AUG96	47181.89	1131975.17	.00	.00	.00	.00
1SEP96	42892.62	1174867.79	.00	.00	.00	.00
1OCT96	49326.52	1224194.31	.00	.00	.00	.00
1NOV96	40747.99	1264942.30	.00	.00	.00	.00
1DEC96	40747.99	1305690.29	.00	.00	.00	.00
1JAN97	49326.52	1355016.80	.00	.00	.00	.00
1FEB97	42892.62	1397909.42	.00	.00	.00	.00
1MAR97	45037.25	1442946.67	.00	.00	.00	.00
1APR97	47181.89	1490128.56	.00	.00	.00	.00
1MAY97	47181.89	1537310.45	.00	.00	.00	.00
1JUN97	45037.25	1582347.70	.00	.00	.00	.00
1JUL97	49326.52	1631674.21	.00	.00	.00	.00
1AUG97	45037.25	1676711.46	.00	.00	.00	.00
1SEP97	47181.89	1723893.35	.00	.00	.00	.00
1OCT97	49326.52	1773219.86	.00	.00	.00	.00
1NOV97	42892.62	1816112.48	.00	.00	.00	.00
1DEC97	49326.52	1865439.00	.00	.00	.00	.00
1JAN98	47181.89	1912620.89	.00	.00	.00	.00
1FEB98	42892.62	1955513.51	.00	.00	.00	.00
1MAR98	47181.89	2002695.39	.00	.00	.00	.00
1APR98	22785.43	2025480.82	.00	.00	.00	.00
1MAY98	21749.73	2047230.55	.00	.00	.00	.00
1JUN98	22785.43	2070015.97	.00	.00	.00	.00
1JUL98	23821.13	2093837.10	.00	.00	.00	.00
1AUG98	21749.73	2115586.83	.00	.00	.00	.00
1SEP98	22785.43	2138372.25	.00	.00	.00	.00
1OCT98	.00	2138372.25	.00	.00	.00	.00
1NOV98	.00	2138372.25	.00	.00	.00	.00
1DEC98	.00	2138372.25	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 625  
15:11

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.2 PROJECT CONTROL - PROCUREMENTS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	8637.10	8637.10	.00	.00	.00	.00
1NOV94	8225.81	16862.90	.00	.00	.00	.00
1DEC94	7814.52	24677.42	.00	.00	.00	.00
1JAN95	8225.81	32903.23	.00	.00	.00	.00
1FEB95	7814.52	40717.74	.00	.00	.00	.00
1MAR95	9459.68	50177.42	.00	.00	.00	.00
1APR95	7814.52	57991.94	.00	.00	.00	.00
1MAY95	9048.39	67040.32	.00	.00	.00	.00
1JUN95	9048.39	76088.71	.00	.00	.00	.00
1JUL95	8225.81	84314.52	.00	.00	.00	.00
1AUG95	9459.68	93774.19	.00	.00	.00	.00
1SEP95	8225.81	102000.00	.00	.00	.00	.00
1OCT95	9392.44	111392.44	.00	.00	.00	.00
1NOV95	8538.58	119931.02	.00	.00	.00	.00
1DEC95	8111.65	128042.68	.00	.00	.00	.00
1JAN96	8538.58	136581.26	.00	.00	.00	.00
1FEB96	8538.58	145119.84	.00	.00	.00	.00
1MAR96	8965.51	154085.36	.00	.00	.00	.00
1APR96	8965.51	163050.87	.00	.00	.00	.00
1MAY96	9392.44	172443.31	.00	.00	.00	.00
1JUN96	8538.58	180981.89	.00	.00	.00	.00
1JUL96	9392.44	190374.33	.00	.00	.00	.00
1AUG96	9392.44	199766.77	.00	.00	.00	.00
1SEP96	8538.58	208305.36	.00	.00	.00	.00
1OCT96	9819.37	218124.73	.00	.00	.00	.00
1NOV96	8111.65	226236.38	.00	.00	.00	.00
1DEC96	8111.65	234348.03	.00	.00	.00	.00
1JAN97	9819.37	244167.40	.00	.00	.00	.00
1FEB97	8538.58	252705.99	.00	.00	.00	.00
1MAR97	8965.51	261671.50	.00	.00	.00	.00
1APR97	9392.44	271063.94	.00	.00	.00	.00
1MAY97	9392.44	280456.38	.00	.00	.00	.00
1JUN97	8965.51	289421.89	.00	.00	.00	.00
1JUL97	9819.37	299241.26	.00	.00	.00	.00
1AUG97	8965.51	308206.78	.00	.00	.00	.00
1SEP97	9392.44	317599.22	.00	.00	.00	.00
1OCT97	9819.37	327418.59	.00	.00	.00	.00
1NOV97	8538.58	335957.17	.00	.00	.00	.00
1DEC97	9819.37	345776.54	.00	.00	.00	.00
1JAN98	9392.44	355168.98	.00	.00	.00	.00
1FEB98	8538.58	363707.56	.00	.00	.00	.00
1MAR98	9392.44	373100.01	.00	.00	.00	.00
1APR98	4467.18	377567.18	.00	.00	.00	.00
1MAY98	4264.12	381831.30	.00	.00	.00	.00
1JUN98	4467.18	386298.48	.00	.00	.00	.00
1JUL98	4670.23	390968.71	.00	.00	.00	.00
1AUG98	4264.12	395232.83	.00	.00	.00	.00
1SEP98	4467.18	399700.01	.00	.00	.00	.00
1OCT98	.00	399700.01	.00	.00	.00	.00
1NOV98	.00	399700.01	.00	.00	.00	.00
1DEC98	.00	399700.01	.00	.00	.00	.00

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	3962.90	3962.90	.00	.00	.00	.00
1NOV94	3774.19	7737.10	.00	.00	.00	.00
1DEC94	3585.48	11322.58	.00	.00	.00	.00
1JAN95	3774.19	15096.77	.00	.00	.00	.00
1FEB95	3585.48	18682.26	.00	.00	.00	.00
1MAR95	4340.32	23022.58	.00	.00	.00	.00
1APR95	3585.48	26608.06	.00	.00	.00	.00
1MAY95	4151.61	30759.68	.00	.00	.00	.00
1JUN95	4151.61	34911.29	.00	.00	.00	.00
1JUL95	3774.19	38685.48	.00	.00	.00	.00
1AUG95	4340.32	43025.81	.00	.00	.00	.00
1SEP95	3774.19	46800.00	.00	.00	.00	.00
1OCT95	4659.84	51459.84	.00	.00	.00	.00
1NOV95	4236.22	55696.06	.00	.00	.00	.00
1DEC95	4024.41	59720.47	.00	.00	.00	.00
1JAN96	4236.22	63956.69	.00	.00	.00	.00
1FEB96	4236.22	68192.91	.00	.00	.00	.00
1MAR96	4448.03	72640.95	.00	.00	.00	.00
1APR96	4448.03	77088.98	.00	.00	.00	.00
1MAY96	4659.84	81748.82	.00	.00	.00	.00
1JUN96	4236.22	85985.04	.00	.00	.00	.00
1JUL96	4659.84	90644.88	.00	.00	.00	.00
1AUG96	4659.84	95304.73	.00	.00	.00	.00
1SEP96	4236.22	99540.95	.00	.00	.00	.00
1OCT96	4871.65	104412.60	.00	.00	.00	.00
1NOV96	4024.41	108437.01	.00	.00	.00	.00
1DEC96	4024.41	112461.42	.00	.00	.00	.00
1JAN97	4871.65	117333.07	.00	.00	.00	.00
1FEB97	4236.22	121569.29	.00	.00	.00	.00
1MAR97	4448.03	126017.32	.00	.00	.00	.00
1APR97	4659.84	130677.17	.00	.00	.00	.00
1MAY97	4659.84	135337.01	.00	.00	.00	.00
1JUN97	4448.03	139785.04	.00	.00	.00	.00
1JUL97	4871.65	144656.69	.00	.00	.00	.00
1AUG97	4448.03	149104.73	.00	.00	.00	.00
1SEP97	4659.84	153764.57	.00	.00	.00	.00
1OCT97	4871.65	158636.22	.00	.00	.00	.00
1NOV97	4236.22	162872.44	.00	.00	.00	.00
1DEC97	4871.65	167744.09	.00	.00	.00	.00
1JAN98	4659.84	172403.94	.00	.00	.00	.00
1FEB98	4236.22	176640.16	.00	.00	.00	.00
1MAR98	4659.84	181300.00	.00	.00	.00	.00
1APR98	4685.50	185985.50	.00	.00	.00	.00
1MAY98	4472.52	190458.02	.00	.00	.00	.00
1JUN98	4685.50	195143.51	.00	.00	.00	.00
1JUL98	4898.47	200041.98	.00	.00	.00	.00
1AUG98	4472.52	204514.50	.00	.00	.00	.00
1SEP98	4685.50	209200.00	.00	.00	.00	.00
1OCT98	.00	209200.00	.00	.00	.00	.00
1NOV98	.00	209200.00	.00	.00	.00	.00
1DEC98	.00	209200.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 587  
14:38

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.3 TECHNICAL SYSTEMS INTEGRATION

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	106362.00	106362.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	27771.89	134133.89	.00	.00	.00	.00
1NOV94	26449.42	160583.31	.00	.00	.00	.00
1DEC94	25126.95	185710.26	.00	.00	.00	.00
1JAN95	26449.42	212159.68	.00	.00	.00	.00
1FEB95	25126.95	237286.63	.00	.00	.00	.00
1MAR95	30416.83	267703.47	.00	.00	.00	.00
1APR95	25126.95	292830.42	.00	.00	.00	.00
1MAY95	29094.36	321924.78	.00	.00	.00	.00
1JUN95	29094.36	351019.14	.00	.00	.00	.00
1JUL95	26449.42	377468.56	.00	.00	.00	.00
1AUG95	30416.83	407885.40	.00	.00	.00	.00
1SEP95	26449.42	434334.82	.00	.00	.00	.00
1OCT95	25841.70	460176.52	.00	.00	.00	.00
1NOV95	23492.46	483668.98	.00	.00	.00	.00
1DEC95	22317.83	505986.81	.00	.00	.00	.00
1JAN96	23492.46	529479.27	.00	.00	.00	.00
1FEB96	23492.46	552971.73	.00	.00	.00	.00
1MAR96	24667.08	577638.81	.00	.00	.00	.00
1APR96	24667.08	602305.90	.00	.00	.00	.00
1MAY96	25841.70	628147.60	.00	.00	.00	.00
1JUN96	23492.46	651640.06	.00	.00	.00	.00
1JUL96	25841.70	677481.76	.00	.00	.00	.00
1AUG96	25841.70	703323.46	.00	.00	.00	.00
1SEP96	23492.46	726815.92	.00	.00	.00	.00
1OCT96	27016.33	753832.24	.00	.00	.00	.00
1NOV96	22317.83	776150.08	.00	.00	.00	.00
1DEC96	22317.83	798467.91	.00	.00	.00	.00
1JAN97	27016.33	825484.24	.00	.00	.00	.00
1FEB97	23492.46	848976.70	.00	.00	.00	.00
1MAR97	24667.08	873643.78	.00	.00	.00	.00
1APR97	25841.70	899485.48	.00	.00	.00	.00
1MAY97	25841.70	925327.18	.00	.00	.00	.00
1JUN97	24667.08	949994.26	.00	.00	.00	.00
1JUL97	27016.33	977010.59	.00	.00	.00	.00
1AUG97	24667.08	1001677.67	.00	.00	.00	.00
1SEP97	25841.70	1027519.37	.00	.00	.00	.00
1OCT97	27016.33	1054535.70	.00	.00	.00	.00
1NOV97	23492.46	1078028.16	.00	.00	.00	.00
1DEC97	27016.33	1105044.48	.00	.00	.00	.00
1JAN98	25841.70	1130886.19	.00	.00	.00	.00
1FEB98	23492.46	1154378.64	.00	.00	.00	.00
1MAR98	25841.70	1180220.35	.00	.00	.00	.00
1APR98	25841.70	1206062.05	.00	.00	.00	.00
1MAY98	24667.08	1230729.13	.00	.00	.00	.00
1JUN98	25841.70	1256570.83	.00	.00	.00	.00
1JUL98	27016.33	1283587.16	.00	.00	.00	.00
1AUG98	24667.08	1308254.24	.00	.00	.00	.00
1SEP98	25841.70	1334095.94	.00	.00	.00	.00
1OCT98	.00	1334095.94	.00	.00	.00	.00
1NOV98	.00	1334095.94	.00	.00	.00	.00
1DEC98	.00	1334095.94	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 623  
15:09

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.3.3 TECHNICAL SYS INTEGRATION - PROCURES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1862.90	1862.90	.00	.00	.00	.00
1NOV94	1774.19	3637.10	.00	.00	.00	.00
1DEC94	1685.48	5322.58	.00	.00	.00	.00
1JAN95	1774.19	7096.77	.00	.00	.00	.00
1FEB95	1685.48	8782.26	.00	.00	.00	.00
1MAR95	2040.32	10822.58	.00	.00	.00	.00
1APR95	1685.48	12508.06	.00	.00	.00	.00
1MAY95	1951.61	14459.68	.00	.00	.00	.00
1JUN95	1951.61	16411.29	.00	.00	.00	.00
1JUL95	1774.19	18185.48	.00	.00	.00	.00
1AUG95	2040.32	20225.81	.00	.00	.00	.00
1SEP95	1774.19	22000.00	.00	.00	.00	.00
1OCT95	1895.56	23895.56	.00	.00	.00	.00
1NOV95	1723.24	25618.80	.00	.00	.00	.00
1DEC95	1637.08	27255.88	.00	.00	.00	.00
1JAN96	1723.24	28979.11	.00	.00	.00	.00
1FEB96	1723.24	30702.35	.00	.00	.00	.00
1MAR96	1809.40	32511.75	.00	.00	.00	.00
1APR96	1809.40	34321.15	.00	.00	.00	.00
1MAY96	1895.56	36216.71	.00	.00	.00	.00
1JUN96	1723.24	37939.95	.00	.00	.00	.00
1JUL96	1895.56	39835.51	.00	.00	.00	.00
1AUG96	1895.56	41731.07	.00	.00	.00	.00
1SEP96	1723.24	43454.31	.00	.00	.00	.00
1OCT96	1981.72	45436.03	.00	.00	.00	.00
1NOV96	1637.08	47073.11	.00	.00	.00	.00
1DEC96	1637.08	48710.18	.00	.00	.00	.00
1JAN97	1981.72	50691.91	.00	.00	.00	.00
1FEB97	1723.24	52415.14	.00	.00	.00	.00
1MAR97	1809.40	54224.54	.00	.00	.00	.00
1APR97	1895.56	56120.10	.00	.00	.00	.00
1MAY97	1895.56	58015.67	.00	.00	.00	.00
1JUN97	1809.40	59825.07	.00	.00	.00	.00
1JUL97	1981.72	61806.79	.00	.00	.00	.00
1AUG97	1809.40	63616.19	.00	.00	.00	.00
1SEP97	1895.56	65511.75	.00	.00	.00	.00
1OCT97	1981.72	67493.47	.00	.00	.00	.00
1NOV97	1723.24	69216.71	.00	.00	.00	.00
1DEC97	1981.72	71198.43	.00	.00	.00	.00
1JAN98	1895.56	73094.00	.00	.00	.00	.00
1FEB98	1723.24	74817.23	.00	.00	.00	.00
1MAR98	1895.56	76712.79	.00	.00	.00	.00
1APR98	1895.56	78608.36	.00	.00	.00	.00
1MAY98	1809.40	80417.76	.00	.00	.00	.00
1JUN98	1895.56	82313.32	.00	.00	.00	.00
1JUL98	1981.72	84295.04	.00	.00	.00	.00
1AUG98	1809.40	86104.44	.00	.00	.00	.00
1SEP98	1895.56	88000.00	.00	.00	.00	.00
1OCT98	.00	88000.00	.00	.00	.00	.00
1NOV98	.00	88000.00	.00	.00	.00	.00
1DEC98	.00	88000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 622  
15:08

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.3 TECHNICAL SYS INTEGRATION - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC						
UNIT OF MEASURE = COST						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	508.06	508.06	.00	.00	.00	.00
1NOV94	483.87	991.94	.00	.00	.00	.00
1DEC94	459.68	1451.61	.00	.00	.00	.00
1JAN95	483.87	1935.48	.00	.00	.00	.00
1FEB95	459.68	2395.16	.00	.00	.00	.00
1MAR95	556.45	2951.61	.00	.00	.00	.00
1APR95	459.68	3411.29	.00	.00	.00	.00
1MAY95	532.26	3943.55	.00	.00	.00	.00
1JUN95	532.26	4475.81	.00	.00	.00	.00
1JUL95	483.87	4959.68	.00	.00	.00	.00
1AUG95	556.45	5516.13	.00	.00	.00	.00
1SEP95	483.87	6000.00	.00	.00	.00	.00
1OCT95	516.97	6516.97	.00	.00	.00	.00
1NOV95	469.97	6986.95	.00	.00	.00	.00
1DEC95	446.48	7433.42	.00	.00	.00	.00
1JAN96	469.97	7903.39	.00	.00	.00	.00
1FEB96	469.97	8373.37	.00	.00	.00	.00
1MAR96	493.47	8866.84	.00	.00	.00	.00
1APR96	493.47	9360.31	.00	.00	.00	.00
1MAY96	516.97	9877.28	.00	.00	.00	.00
1JUN96	469.97	10347.26	.00	.00	.00	.00
1JUL96	516.97	10864.23	.00	.00	.00	.00
1AUG96	516.97	11381.20	.00	.00	.00	.00
1SEP96	469.97	11851.17	.00	.00	.00	.00
1OCT96	540.47	12391.64	.00	.00	.00	.00
1NOV96	446.48	12838.12	.00	.00	.00	.00
1DEC96	446.48	13284.60	.00	.00	.00	.00
1JAN97	540.47	13825.07	.00	.00	.00	.00
1FEB97	469.97	14295.04	.00	.00	.00	.00
1MAR97	493.47	14788.51	.00	.00	.00	.00
1APR97	516.97	15305.48	.00	.00	.00	.00
1MAY97	516.97	15822.45	.00	.00	.00	.00
1JUN97	493.47	16315.93	.00	.00	.00	.00
1JUL97	540.47	16856.40	.00	.00	.00	.00
1AUG97	493.47	17349.87	.00	.00	.00	.00
1SEP97	516.97	17866.84	.00	.00	.00	.00
1OCT97	540.47	18407.31	.00	.00	.00	.00
1NOV97	469.97	18877.28	.00	.00	.00	.00
1DEC97	540.47	19417.75	.00	.00	.00	.00
1JAN98	516.97	19934.73	.00	.00	.00	.00
1FEB98	469.97	20404.70	.00	.00	.00	.00
1MAR98	516.97	20921.67	.00	.00	.00	.00
1APR98	516.97	21438.64	.00	.00	.00	.00
1MAY98	493.47	21932.11	.00	.00	.00	.00
1JUN98	516.97	22449.09	.00	.00	.00	.00
1JUL98	540.47	22989.56	.00	.00	.00	.00
1AUG98	493.47	23483.03	.00	.00	.00	.00
1SEP98	516.97	24000.00	.00	.00	.00	.00
1OCT98	.00	24000.00	.00	.00	.00	.00
1NOV98	.00	24000.00	.00	.00	.00	.00
1DEC98	.00	24000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 588  
14:38

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.1 RECEIVING & SHIPPING

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	30447.00	30447.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	17765.79	48212.79	.00	.00	.00	.00
1NOV94	16919.80	65132.58	.00	.00	.00	.00
1DEC94	16073.81	81206.39	.00	.00	.00	.00
1JAN95	16919.80	98126.19	.00	.00	.00	.00
1FEB95	16073.81	114199.99	.00	.00	.00	.00
1MAR95	19457.77	133657.76	.00	.00	.00	.00
1APR95	13584.88	147242.64	.00	.00	.00	.00
1MAY95	15189.50	162432.14	.00	.00	.00	.00
1JUN95	15189.50	177621.65	.00	.00	.00	.00
1JUL95	4070.34	181691.99	.00	.00	.00	.00
1AUG95	4680.90	186372.89	.00	.00	.00	.00
1SEP95	4070.34	190443.23	.00	.00	.00	.00
1OCT95	4477.38	194920.61	.00	.00	.00	.00
1NOV95	4070.34	198990.95	.00	.00	.00	.00
1DEC95	3866.83	202857.78	.00	.00	.00	.00
1JAN96	4070.34	206928.12	.00	.00	.00	.00
1FEB96	4070.34	210998.46	.00	.00	.00	.00
1MAR96	4273.86	215272.33	.00	.00	.00	.00
1APR96	4273.86	219546.19	.00	.00	.00	.00
1MAY96	4477.38	224023.56	.00	.00	.00	.00
1JUN96	4070.34	228093.91	.00	.00	.00	.00
1JUL96	14979.71	243073.62	.00	.00	.00	.00
1AUG96	14979.71	258053.33	.00	.00	.00	.00
1SEP96	14736.26	272789.60	.00	.00	.00	.00
1OCT96	16946.70	289736.30	.00	.00	.00	.00
1NOV96	13999.45	303735.75	.00	.00	.00	.00
1DEC96	13999.45	317735.20	.00	.00	.00	.00
1JAN97	16946.70	334681.91	.00	.00	.00	.00
1FEB97	2155.18	336837.09	.00	.00	.00	.00
1MAR97	2262.94	339100.03	.00	.00	.00	.00
1APR97	2370.70	341470.73	.00	.00	.00	.00
1MAY97	2370.70	343841.43	.00	.00	.00	.00
1JUN97	2262.94	346104.37	.00	.00	.00	.00
1JUL97	3424.99	349529.37	.00	.00	.00	.00
1AUG97	3127.17	352656.53	.00	.00	.00	.00
1SEP97	3276.08	355932.62	.00	.00	.00	.00
1OCT97	3424.99	359357.61	.00	.00	.00	.00
1NOV97	2978.25	362335.86	.00	.00	.00	.00
1DEC97	3424.99	365760.86	.00	.00	.00	.00
1JAN98	2135.56	367896.41	.00	.00	.00	.00
1FEB98	1941.41	369837.83	.00	.00	.00	.00
1MAR98	.00	369837.83	.00	.00	.00	.00
1APR98	.00	369837.83	.00	.00	.00	.00
1MAY98	.00	369837.83	.00	.00	.00	.00
1JUN98	.00	369837.83	.00	.00	.00	.00
1JUL98	.00	369837.83	.00	.00	.00	.00
1AUG98	.00	369837.83	.00	.00	.00	.00
1SEP98	.00	369837.83	.00	.00	.00	.00
1OCT98	.00	369837.83	.00	.00	.00	.00
1NOV98	.00	369837.83	.00	.00	.00	.00
1DEC98	.00	369837.83	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	13839.19	13839.19	.00	.00	.00	.00
1AUG96	13839.19	27678.38	.00	.00	.00	.00
1SEP96	12581.08	40259.46	.00	.00	.00	.00
1OCT96	14468.24	54727.70	.00	.00	.00	.00
1NOV96	11952.03	66679.73	.00	.00	.00	.00
1DEC96	11952.03	78631.76	.00	.00	.00	.00
1JAN97	14468.24	93100.00	.00	.00	.00	.00
1FEB97	.00	93100.00	.00	.00	.00	.00
1MAR97	.00	93100.00	.00	.00	.00	.00
1APR97	.00	93100.00	.00	.00	.00	.00
1MAY97	.00	93100.00	.00	.00	.00	.00
1JUN97	.00	93100.00	.00	.00	.00	.00
1JUL97	.00	93100.00	.00	.00	.00	.00
1AUG97	.00	93100.00	.00	.00	.00	.00
1SEP97	.00	93100.00	.00	.00	.00	.00
1OCT97	.00	93100.00	.00	.00	.00	.00
1NOV97	.00	93100.00	.00	.00	.00	.00
1DEC97	.00	93100.00	.00	.00	.00	.00
1JAN98	.00	93100.00	.00	.00	.00	.00
1FEB98	.00	93100.00	.00	.00	.00	.00
1MAR98	.00	93100.00	.00	.00	.00	.00
1APR98	.00	93100.00	.00	.00	.00	.00
1MAY98	.00	93100.00	.00	.00	.00	.00
1JUN98	.00	93100.00	.00	.00	.00	.00
1JUL98	.00	93100.00	.00	.00	.00	.00
1AUG98	.00	93100.00	.00	.00	.00	.00
1SEP98	.00	93100.00	.00	.00	.00	.00
1OCT98	.00	93100.00	.00	.00	.00	.00
1NOV98	.00	93100.00	.00	.00	.00	.00
1DEC98	.00	93100.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 589  
14:39

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.4.2 SOLIDS FEED PREPARATION

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	158429.00	158429.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	95083.20	253512.20	.00	.00	.00	.00
1NOV94	90555.45	344067.64	.00	.00	.00	.00
1DEC94	86027.67	430095.31	.00	.00	.00	.00
1JAN95	90555.45	520650.76	.00	.00	.00	.00
1FEB95	86027.67	606678.43	.00	.00	.00	.00
1MAR95	104138.76	710817.19	.00	.00	.00	.00
1APR95	86027.67	796844.86	.00	.00	.00	.00
1MAY95	99610.99	896455.85	.00	.00	.00	.00
1JUN95	99610.99	996066.84	.00	.00	.00	.00
1JUL95	39375.40	1035442.25	.00	.00	.00	.00
1AUG95	45281.71	1080723.96	.00	.00	.00	.00
1SEP95	39375.40	1120099.36	.00	.00	.00	.00
1OCT95	43312.94	1163412.30	.00	.00	.00	.00
1NOV95	39375.40	1202787.70	.00	.00	.00	.00
1DEC95	37406.63	1240194.33	.00	.00	.00	.00
1JAN96	39375.40	1279569.73	.00	.00	.00	.00
1FEB96	39375.40	1318945.14	.00	.00	.00	.00
1MAR96	41344.17	1360289.30	.00	.00	.00	.00
1APR96	41344.17	1401633.47	.00	.00	.00	.00
1MAY96	43312.94	1444946.41	.00	.00	.00	.00
1JUN96	39375.40	1484321.82	.00	.00	.00	.00
1JUL96	264499.88	1748821.69	.00	.00	.00	.00
1AUG96	264499.88	2013321.57	.00	.00	.00	.00
1SEP96	240454.44	2253776.00	.00	.00	.00	.00
1OCT96	276522.63	2530298.63	.00	.00	.00	.00
1NOV96	228431.72	2758730.35	.00	.00	.00	.00
1DEC96	228431.72	2987162.07	.00	.00	.00	.00
1JAN97	276522.63	3263684.69	.00	.00	.00	.00
1FEB97	240454.44	3504139.13	.00	.00	.00	.00
1MAR97	252477.14	3756616.27	.00	.00	.00	.00
1APR97	264499.88	4021116.14	.00	.00	.00	.00
1MAY97	264499.88	4285616.02	.00	.00	.00	.00
1JUN97	252477.14	4538093.16	.00	.00	.00	.00
1JUL97	88203.81	4626296.97	.00	.00	.00	.00
1AUG97	80533.92	4706830.89	.00	.00	.00	.00
1SEP97	84368.87	4791199.76	.00	.00	.00	.00
1OCT97	88203.81	4879403.57	.00	.00	.00	.00
1NOV97	76698.96	4956102.54	.00	.00	.00	.00
1DEC97	88203.81	5044306.35	.00	.00	.00	.00
1JAN98	84368.87	5128675.21	.00	.00	.00	.00
1FEB98	76698.96	5205374.18	.00	.00	.00	.00
1MAR98	84368.87	5289743.04	.00	.00	.00	.00
1APR98	.00	5289743.04	.00	.00	.00	.00
1MAY98	.00	5289743.04	.00	.00	.00	.00
1JUN98	.00	5289743.04	.00	.00	.00	.00
1JUL98	.00	5289743.04	.00	.00	.00	.00
1AUG98	.00	5289743.04	.00	.00	.00	.00
1SEP98	.00	5289743.04	.00	.00	.00	.00
1OCT98	.00	5289743.04	.00	.00	.00	.00
1NOV98	.00	5289743.04	.00	.00	.00	.00
1DEC98	.00	5289743.04	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 619  
15:04

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.2 SOLIDS FEED PREPARATION - PROCUREMENTS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	60843.24	60843.24	.00	.00	.00	.00
1NOV94	57945.95	118789.19	.00	.00	.00	.00
1DEC94	55048.65	173837.84	.00	.00	.00	.00
1JAN95	57945.95	231783.78	.00	.00	.00	.00
1FEB95	55048.65	286832.43	.00	.00	.00	.00
1MAR95	66637.84	353470.27	.00	.00	.00	.00
1APR95	55048.65	408518.91	.00	.00	.00	.00
1MAY95	63740.54	472259.45	.00	.00	.00	.00
1JUN95	63740.54	535999.99	.00	.00	.00	.00
1JUL95	5000.00	540999.99	.00	.00	.00	.00
1AUG95	5750.00	546749.99	.00	.00	.00	.00
1SEP95	5000.00	551749.99	.00	.00	.00	.00
1OCT95	5500.00	557249.99	.00	.00	.00	.00
1NOV95	5000.00	562249.99	.00	.00	.00	.00
1DEC95	4750.00	566999.99	.00	.00	.00	.00
1JAN96	5000.00	571999.99	.00	.00	.00	.00
1FEB96	5000.00	576999.99	.00	.00	.00	.00
1MAR96	5250.00	582249.99	.00	.00	.00	.00
1APR96	5250.00	587499.99	.00	.00	.00	.00
1MAY96	5500.00	592999.99	.00	.00	.00	.00
1JUN96	5000.00	597999.99	.00	.00	.00	.00
1JUL96	228765.36	826765.35	.00	.00	.00	.00
1AUG96	228765.36	1055530.71	.00	.00	.00	.00
1SEP96	207968.50	1263499.21	.00	.00	.00	.00
1OCT96	239163.78	1502662.99	.00	.00	.00	.00
1NOV96	197570.08	1700233.07	.00	.00	.00	.00
1DEC96	197570.08	1897803.15	.00	.00	.00	.00
1JAN97	239163.78	2136966.93	.00	.00	.00	.00
1FEB97	207968.50	2344935.43	.00	.00	.00	.00
1MAR97	218366.92	2563302.35	.00	.00	.00	.00
1APR97	228765.36	2792067.71	.00	.00	.00	.00
1MAY97	228765.36	3020833.07	.00	.00	.00	.00
1JUN97	218366.92	3239199.99	.00	.00	.00	.00
1JUL97	.00	3239199.99	.00	.00	.00	.00
1AUG97	.00	3239199.99	.00	.00	.00	.00
1SEP97	.00	3239199.99	.00	.00	.00	.00
1OCT97	.00	3239199.99	.00	.00	.00	.00
1NOV97	.00	3239199.99	.00	.00	.00	.00
1DEC97	.00	3239199.99	.00	.00	.00	.00
1JAN98	.00	3239199.99	.00	.00	.00	.00
1FEB98	.00	3239199.99	.00	.00	.00	.00
1MAR98	.00	3239199.99	.00	.00	.00	.00
1APR98	.00	3239199.99	.00	.00	.00	.00
1MAY98	.00	3239199.99	.00	.00	.00	.00
1JUN98	.00	3239199.99	.00	.00	.00	.00
1JUL98	.00	3239199.99	.00	.00	.00	.00
1AUG98	.00	3239199.99	.00	.00	.00	.00
1SEP98	.00	3239199.99	.00	.00	.00	.00
1OCT98	.00	3239199.99	.00	.00	.00	.00
1NOV98	.00	3239199.99	.00	.00	.00	.00
1DEC98	.00	3239199.99	.00	.00	.00	.00

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REPORT DATE 12APR95 RUN NO. 618  
15:04

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.4.2 SOLIDS FEED PREPARATION - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1589.19	1589.19	.00	.00	.00	.00
1NOV94	1513.51	3102.70	.00	.00	.00	.00
1DEC94	1437.84	4540.54	.00	.00	.00	.00
1JAN95	1513.51	6054.05	.00	.00	.00	.00
1FEB95	1437.84	7491.89	.00	.00	.00	.00
1MAR95	1740.54	9232.43	.00	.00	.00	.00
1APR95	1437.84	10670.27	.00	.00	.00	.00
1MAY95	1664.86	12335.14	.00	.00	.00	.00
1JUN95	1664.86	14000.00	.00	.00	.00	.00
1JUL95	1290.32	15290.32	.00	.00	.00	.00
1AUG95	1483.87	16774.19	.00	.00	.00	.00
1SEP95	1290.32	18064.52	.00	.00	.00	.00
1OCT95	1419.35	19483.87	.00	.00	.00	.00
1NOV95	1290.32	20774.19	.00	.00	.00	.00
1DEC95	1225.81	22000.00	.00	.00	.00	.00
1JAN96	1290.32	23290.32	.00	.00	.00	.00
1FEB96	1290.32	24580.65	.00	.00	.00	.00
1MAR96	1354.84	25935.48	.00	.00	.00	.00
1APR96	1354.84	27290.32	.00	.00	.00	.00
1MAY96	1419.35	28709.68	.00	.00	.00	.00
1JUN96	1290.32	30000.00	.00	.00	.00	.00
1JUL96	.00	30000.00	.00	.00	.00	.00
1AUG96	.00	30000.00	.00	.00	.00	.00
1SEP96	.00	30000.00	.00	.00	.00	.00
1OCT96	.00	30000.00	.00	.00	.00	.00
1NOV96	.00	30000.00	.00	.00	.00	.00
1DEC96	.00	30000.00	.00	.00	.00	.00
1JAN97	.00	30000.00	.00	.00	.00	.00
1FEB97	.00	30000.00	.00	.00	.00	.00
1MAR97	.00	30000.00	.00	.00	.00	.00
1APR97	.00	30000.00	.00	.00	.00	.00
1MAY97	.00	30000.00	.00	.00	.00	.00
1JUN97	.00	30000.00	.00	.00	.00	.00
1JUL97	.00	30000.00	.00	.00	.00	.00
1AUG97	.00	30000.00	.00	.00	.00	.00
1SEP97	.00	30000.00	.00	.00	.00	.00
1OCT97	.00	30000.00	.00	.00	.00	.00
1NOV97	.00	30000.00	.00	.00	.00	.00
1DEC97	.00	30000.00	.00	.00	.00	.00
1JAN98	.00	30000.00	.00	.00	.00	.00
1FEB98	.00	30000.00	.00	.00	.00	.00
1MAR98	.00	30000.00	.00	.00	.00	.00
1APR98	.00	30000.00	.00	.00	.00	.00
1MAY98	.00	30000.00	.00	.00	.00	.00
1JUN98	.00	30000.00	.00	.00	.00	.00
1JUL98	.00	30000.00	.00	.00	.00	.00
1AUG98	.00	30000.00	.00	.00	.00	.00
1SEP98	.00	30000.00	.00	.00	.00	.00
1OCT98	.00	30000.00	.00	.00	.00	.00
1NOV98	.00	30000.00	.00	.00	.00	.00
1DEC98	.00	30000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 590  
14:39

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.3 LIQUIDS FEED PREPARATION

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	142893.00	142893.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	26506.55	169399.55	.00	.00	.00	.00
1NOV94	25244.33	194643.88	.00	.00	.00	.00
1DEC94	23982.12	218626.00	.00	.00	.00	.00
1JAN95	25244.33	243870.33	.00	.00	.00	.00
1FEB95	23982.12	267852.45	.00	.00	.00	.00
1MAR95	29030.98	296883.43	.00	.00	.00	.00
1APR95	23982.12	320865.55	.00	.00	.00	.00
1MAY95	27768.77	348634.32	.00	.00	.00	.00
1JUN95	27768.77	376403.08	.00	.00	.00	.00
1JUL95	16831.11	393234.20	.00	.00	.00	.00
1AUG95	19355.78	412589.97	.00	.00	.00	.00
1SEP95	16831.11	429421.09	.00	.00	.00	.00
1OCT95	18514.22	447935.31	.00	.00	.00	.00
1NOV95	16831.11	464766.42	.00	.00	.00	.00
1DEC95	15989.56	480755.98	.00	.00	.00	.00
1JAN96	16831.11	497587.09	.00	.00	.00	.00
1FEB96	16831.11	514418.21	.00	.00	.00	.00
1MAR96	17672.67	532090.87	.00	.00	.00	.00
1APR96	17672.67	549763.54	.00	.00	.00	.00
1MAY96	18514.22	568277.76	.00	.00	.00	.00
1JUN96	16831.11	585108.88	.00	.00	.00	.00
1JUL96	88020.44	673129.32	.00	.00	.00	.00
1AUG96	88020.44	761149.75	.00	.00	.00	.00
1SEP96	91553.66	852703.41	.00	.00	.00	.00
1OCT96	105286.69	957990.10	.00	.00	.00	.00
1NOV96	86975.97	1044966.07	.00	.00	.00	.00
1DEC96	86975.97	1131942.03	.00	.00	.00	.00
1JAN97	105286.69	1237228.72	.00	.00	.00	.00
1FEB97	91553.66	1328782.38	.00	.00	.00	.00
1MAR97	96131.34	1424913.71	.00	.00	.00	.00
1APR97	23752.10	1448665.82	.00	.00	.00	.00
1MAY97	23752.10	1472417.92	.00	.00	.00	.00
1JUN97	22672.46	1495090.38	.00	.00	.00	.00
1JUL97	46154.66	1541245.03	.00	.00	.00	.00
1AUG97	42141.21	1583386.24	.00	.00	.00	.00
1SEP97	44147.93	1627534.17	.00	.00	.00	.00
1OCT97	46154.66	1673688.82	.00	.00	.00	.00
1NOV97	40134.48	1713823.30	.00	.00	.00	.00
1DEC97	46154.66	1759977.96	.00	.00	.00	.00
1JAN98	44147.93	1804125.89	.00	.00	.00	.00
1FEB98	40134.48	1844260.37	.00	.00	.00	.00
1MAR98	44147.93	1888408.29	.00	.00	.00	.00
1APR98	.00	1888408.29	.00	.00	.00	.00
1MAY98	.00	1888408.29	.00	.00	.00	.00
1JUN98	.00	1888408.29	.00	.00	.00	.00
1JUL98	.00	1888408.29	.00	.00	.00	.00
1AUG98	.00	1888408.29	.00	.00	.00	.00
1SEP98	.00	1888408.29	.00	.00	.00	.00
1OCT98	.00	1888408.29	.00	.00	.00	.00
1NOV98	.00	1888408.29	.00	.00	.00	.00
1DEC98	.00	1888408.29	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 617  
15:02

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.4.3 LIQUIDS FEED PREPARATION - PROCUREMENT

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	6470.27	6470.27	.00	.00	.00	.00
1NOV94	6162.16	12632.43	.00	.00	.00	.00
1DEC94	5854.05	18486.49	.00	.00	.00	.00
1JAN95	6162.16	24648.65	.00	.00	.00	.00
1FEB95	5854.05	30502.70	.00	.00	.00	.00
1MAR95	7086.49	37589.19	.00	.00	.00	.00
1APR95	5854.05	43443.24	.00	.00	.00	.00
1MAY95	6778.38	50221.62	.00	.00	.00	.00
1JUN95	6778.38	57000.00	.00	.00	.00	.00
1JUL95	.00	57000.00	.00	.00	.00	.00
1AUG95	.00	57000.00	.00	.00	.00	.00
1SEP95	.00	57000.00	.00	.00	.00	.00
1OCT95	.00	57000.00	.00	.00	.00	.00
1NOV95	.00	57000.00	.00	.00	.00	.00
1DEC95	.00	57000.00	.00	.00	.00	.00
1JAN96	.00	57000.00	.00	.00	.00	.00
1FEB96	.00	57000.00	.00	.00	.00	.00
1MAR96	.00	57000.00	.00	.00	.00	.00
1APR96	.00	57000.00	.00	.00	.00	.00
1MAY96	.00	57000.00	.00	.00	.00	.00
1JUN96	.00	57000.00	.00	.00	.00	.00
1JUL96	72285.71	129285.71	.00	.00	.00	.00
1AUG96	72285.71	201571.42	.00	.00	.00	.00
1SEP96	65714.29	267285.71	.00	.00	.00	.00
1OCT96	75571.43	342857.14	.00	.00	.00	.00
1NOV96	62428.57	405285.71	.00	.00	.00	.00
1DEC96	62428.57	467714.28	.00	.00	.00	.00
1JAN97	75571.43	543285.71	.00	.00	.00	.00
1FEB97	65714.29	609000.00	.00	.00	.00	.00
1MAR97	69000.00	678000.00	.00	.00	.00	.00
1APR97	.00	678000.00	.00	.00	.00	.00
1MAY97	.00	678000.00	.00	.00	.00	.00
1JUN97	.00	678000.00	.00	.00	.00	.00
1JUL97	.00	678000.00	.00	.00	.00	.00
1AUG97	.00	678000.00	.00	.00	.00	.00
1SEP97	.00	678000.00	.00	.00	.00	.00
1OCT97	.00	678000.00	.00	.00	.00	.00
1NOV97	.00	678000.00	.00	.00	.00	.00
1DEC97	.00	678000.00	.00	.00	.00	.00
1JAN98	.00	678000.00	.00	.00	.00	.00
1FEB98	.00	678000.00	.00	.00	.00	.00
1MAR98	.00	678000.00	.00	.00	.00	.00
1APR98	.00	678000.00	.00	.00	.00	.00
1MAY98	.00	678000.00	.00	.00	.00	.00
1JUN98	.00	678000.00	.00	.00	.00	.00
1JUL98	.00	678000.00	.00	.00	.00	.00
1AUG98	.00	678000.00	.00	.00	.00	.00
1SEP98	.00	678000.00	.00	.00	.00	.00
1OCT98	.00	678000.00	.00	.00	.00	.00
1NOV98	.00	678000.00	.00	.00	.00	.00
1DEC98	.00	678000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 616  
15:02

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.3 LIQUIDS FEED PREPARATION - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1702.70	1702.70	.00	.00	.00	.00
1NOV94	1621.62	3324.32	.00	.00	.00	.00
1DEC94	1540.54	4864.86	.00	.00	.00	.00
1JAN95	1621.62	6486.49	.00	.00	.00	.00
1FEB95	1540.54	8027.03	.00	.00	.00	.00
1MAR95	1864.86	9891.89	.00	.00	.00	.00
1APR95	1540.54	11432.43	.00	.00	.00	.00
1MAY95	1783.78	13216.22	.00	.00	.00	.00
1JUN95	1783.78	15000.00	.00	.00	.00	.00
1JUL95	1209.68	16209.68	.00	.00	.00	.00
1AUG95	1391.13	17600.81	.00	.00	.00	.00
1SEP95	1209.68	18810.48	.00	.00	.00	.00
1OCT95	1330.65	20141.13	.00	.00	.00	.00
1NOV95	1209.68	21350.81	.00	.00	.00	.00
1DEC95	1149.19	22500.00	.00	.00	.00	.00
1JAN96	1209.68	23709.68	.00	.00	.00	.00
1FEB96	1209.68	24919.35	.00	.00	.00	.00
1MAR96	1270.16	26189.52	.00	.00	.00	.00
1APR96	1270.16	27459.68	.00	.00	.00	.00
1MAY96	1330.65	28790.32	.00	.00	.00	.00
1JUN96	1209.68	30000.00	.00	.00	.00	.00
1JUL96	.00	30000.00	.00	.00	.00	.00
1AUG96	.00	30000.00	.00	.00	.00	.00
1SEP96	.00	30000.00	.00	.00	.00	.00
1OCT96	.00	30000.00	.00	.00	.00	.00
1NOV96	.00	30000.00	.00	.00	.00	.00
1DEC96	.00	30000.00	.00	.00	.00	.00
1JAN97	.00	30000.00	.00	.00	.00	.00
1FEB97	.00	30000.00	.00	.00	.00	.00
1MAR97	.00	30000.00	.00	.00	.00	.00
1APR97	.00	30000.00	.00	.00	.00	.00
1MAY97	.00	30000.00	.00	.00	.00	.00
1JUN97	.00	30000.00	.00	.00	.00	.00
1JUL97	.00	30000.00	.00	.00	.00	.00
1AUG97	.00	30000.00	.00	.00	.00	.00
1SEP97	.00	30000.00	.00	.00	.00	.00
1OCT97	.00	30000.00	.00	.00	.00	.00
1NOV97	.00	30000.00	.00	.00	.00	.00
1DEC97	.00	30000.00	.00	.00	.00	.00
1JAN98	.00	30000.00	.00	.00	.00	.00
1FEB98	.00	30000.00	.00	.00	.00	.00
1MAR98	.00	30000.00	.00	.00	.00	.00
1APR98	.00	30000.00	.00	.00	.00	.00
1MAY98	.00	30000.00	.00	.00	.00	.00
1JUN98	.00	30000.00	.00	.00	.00	.00
1JUL98	.00	30000.00	.00	.00	.00	.00
1AUG98	.00	30000.00	.00	.00	.00	.00
1SEP98	.00	30000.00	.00	.00	.00	.00
1OCT98	.00	30000.00	.00	.00	.00	.00
1NOV98	.00	30000.00	.00	.00	.00	.00
1DEC98	.00	30000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 591  
14:40

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.5.1 MEDIATED ELECTROCHEMICAL OXIDATION

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	716837.00	716837.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	88911.29	805748.29	.00	.00	.00	.00
1NOV94	84677.42	890425.71	.00	.00	.00	.00
1DEC94	80443.55	970869.26	.00	.00	.00	.00
1JAN95	84677.42	1055546.68	.00	.00	.00	.00
1FEB95	80443.55	1135990.23	.00	.00	.00	.00
1MAR95	97379.03	1233369.26	.00	.00	.00	.00
1APR95	80443.55	1313812.80	.00	.00	.00	.00
1MAY95	93145.16	1406957.97	.00	.00	.00	.00
1JUN95	93145.16	1500103.13	.00	.00	.00	.00
1JUL95	84677.42	1584780.55	.00	.00	.00	.00
1AUG95	97379.03	1682159.59	.00	.00	.00	.00
1SEP95	84677.42	1766837.01	.00	.00	.00	.00
1OCT95	81638.55	1848475.56	.00	.00	.00	.00
1NOV95	74216.87	1922692.43	.00	.00	.00	.00
1DEC95	70506.02	1993198.45	.00	.00	.00	.00
1JAN96	74216.87	2067415.32	.00	.00	.00	.00
1FEB96	74216.87	2141632.19	.00	.00	.00	.00
1MAR96	77927.71	2219559.90	.00	.00	.00	.00
1APR96	77927.71	2297487.61	.00	.00	.00	.00
1MAY96	81638.55	2379126.16	.00	.00	.00	.00
1JUN96	74216.87	2453343.03	.00	.00	.00	.00
1JUL96	81638.55	2534981.59	.00	.00	.00	.00
1AUG96	81638.55	2616620.14	.00	.00	.00	.00
1SEP96	74216.87	2690837.01	.00	.00	.00	.00
1OCT96	140425.78	2831262.79	.00	.00	.00	.00
1NOV96	116003.91	2947266.70	.00	.00	.00	.00
1DEC96	116003.91	3063270.60	.00	.00	.00	.00
1JAN97	140425.78	3203696.38	.00	.00	.00	.00
1FEB97	122109.38	3325805.76	.00	.00	.00	.00
1MAR97	128214.84	3454020.60	.00	.00	.00	.00
1APR97	134320.31	3588340.91	.00	.00	.00	.00
1MAY97	134320.31	3722661.23	.00	.00	.00	.00
1JUN97	128214.84	3850876.07	.00	.00	.00	.00
1JUL97	140425.78	3991301.85	.00	.00	.00	.00
1AUG97	128214.84	4119516.70	.00	.00	.00	.00
1SEP97	134320.31	4253837.01	.00	.00	.00	.00
1OCT97	100724.14	4354561.15	.00	.00	.00	.00
1NOV97	87586.20	4442147.35	.00	.00	.00	.00
1DEC97	100724.14	4542871.49	.00	.00	.00	.00
1JAN98	96344.83	4639216.32	.00	.00	.00	.00
1FEB98	87586.20	4726802.52	.00	.00	.00	.00
1MAR98	96344.83	4823147.35	.00	.00	.00	.00
1APR98	96344.83	4919492.18	.00	.00	.00	.00
1MAY98	91965.52	5011457.70	.00	.00	.00	.00
1JUN98	96344.83	5107802.52	.00	.00	.00	.00
1JUL98	100724.14	5208526.66	.00	.00	.00	.00
1AUG98	91965.52	5300492.18	.00	.00	.00	.00
1SEP98	96344.83	5396837.01	.00	.00	.00	.00
1OCT98	.00	5396837.01	.00	.00	.00	.00
1NOV98	.00	5396837.01	.00	.00	.00	.00
1DEC98	.00	5396837.01	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 614  
14:59  
WBS 1.5.1 MEO - PROCUREMENTS

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	88911.29	88911.29	.00	.00	.00	.00
1NOV94	84677.42	173588.71	.00	.00	.00	.00
1DEC94	80443.55	254032.26	.00	.00	.00	.00
1JAN95	84677.42	338709.68	.00	.00	.00	.00
1FEB95	80443.55	419153.23	.00	.00	.00	.00
1MAR95	97379.03	516532.26	.00	.00	.00	.00
1APR95	80443.55	596975.80	.00	.00	.00	.00
1MAY95	93145.16	690120.97	.00	.00	.00	.00
1JUN95	93145.16	783266.13	.00	.00	.00	.00
1JUL95	84677.42	867943.55	.00	.00	.00	.00
1AUG95	97379.03	965322.59	.00	.00	.00	.00
1SEP95	84677.42	1050000.01	.00	.00	.00	.00
1OCT95	81638.55	1131638.56	.00	.00	.00	.00
1NOV95	74216.87	1205855.43	.00	.00	.00	.00
1DEC95	70506.02	1276361.45	.00	.00	.00	.00
1JAN96	74216.87	1350578.32	.00	.00	.00	.00
1FEB96	74216.87	1424795.19	.00	.00	.00	.00
1MAR96	77927.71	1502722.90	.00	.00	.00	.00
1APR96	77927.71	1580650.61	.00	.00	.00	.00
1MAY96	81638.55	1662289.16	.00	.00	.00	.00
1JUN96	74216.87	1736506.03	.00	.00	.00	.00
1JUL96	81638.55	1818144.59	.00	.00	.00	.00
1AUG96	81638.55	1899783.14	.00	.00	.00	.00
1SEP96	74216.87	1974000.01	.00	.00	.00	.00
1OCT96	140425.78	2114425.79	.00	.00	.00	.00
1NOV96	116003.91	2230429.70	.00	.00	.00	.00
1DEC96	116003.91	2346433.60	.00	.00	.00	.00
1JAN97	140425.78	2486859.38	.00	.00	.00	.00
1FEB97	122109.38	2608968.76	.00	.00	.00	.00
1MAR97	128214.84	2737183.60	.00	.00	.00	.00
1APR97	134320.31	2871503.91	.00	.00	.00	.00
1MAY97	134320.31	3005824.23	.00	.00	.00	.00
1JUN97	128214.84	3134039.07	.00	.00	.00	.00
1JUL97	140425.78	3274464.85	.00	.00	.00	.00
1AUG97	128214.84	3402679.70	.00	.00	.00	.00
1SEP97	134320.31	3537000.01	.00	.00	.00	.00
1OCT97	100724.14	3637724.15	.00	.00	.00	.00
1NOV97	87586.20	3725310.35	.00	.00	.00	.00
1DEC97	100724.14	3826034.49	.00	.00	.00	.00
1JAN98	96344.83	3922379.32	.00	.00	.00	.00
1FEB98	87586.20	4009965.52	.00	.00	.00	.00
1MAR98	96344.83	4106310.35	.00	.00	.00	.00
1APR98	96344.83	4202655.18	.00	.00	.00	.00
1MAY98	91965.52	4294620.70	.00	.00	.00	.00
1JUN98	96344.83	4390965.52	.00	.00	.00	.00
1JUL98	100724.14	4491689.66	.00	.00	.00	.00
1AUG98	91965.52	4583655.18	.00	.00	.00	.00
1SEP98	96344.83	4680000.01	.00	.00	.00	.00
1OCT98	.00	4680000.01	.00	.00	.00	.00
1NOV98	.00	4680000.01	.00	.00	.00	.00
1DEC98	.00	4680000.01	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 592  
14:40

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.5.2 MOLTEN SALT OXIDATION (MSO)

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	36913.08	36913.08	.00	.00	.00	.00
1AUG94	90227.53	127140.61	.00	.00	.00	.00
1SEP94	310434.44	437575.05	.00	.00	.00	.00
***DATA DATE***						
1OCT94	139543.48	577118.53	.00	.00	.00	.00
1NOV94	144975.25	722093.78	.00	.00	.00	.00
1DEC94	193037.02	915130.80	.00	.00	.00	.00
1JAN95	210525.47	1125656.27	.00	.00	.00	.00
1FEB95	208667.09	1334323.36	.00	.00	.00	.00
1MAR95	197345.05	1531668.41	.00	.00	.00	.00
1APR95	234830.19	1766498.59	.00	.00	.00	.00
1MAY95	221078.23	1987576.83	.00	.00	.00	.00
1JUN95	153943.91	2141520.73	.00	.00	.00	.00
1JUL95	201799.84	2343320.58	.00	.00	.00	.00
1AUG95	278965.06	2622285.64	.00	.00	.00	.00
1SEP95	241647.02	2863932.66	.00	.00	.00	.00
1OCT95	278636.69	3142569.34	.00	.00	.00	.00
1NOV95	211881.81	3354451.16	.00	.00	.00	.00
1DEC95	140872.66	3495323.81	.00	.00	.00	.00
1JAN96	137138.11	3632461.92	.00	.00	.00	.00
1FEB96	125707.80	3758169.72	.00	.00	.00	.00
1MAR96	196078.34	3954248.06	.00	.00	.00	.00
1APR96	190281.31	4144529.38	.00	.00	.00	.00
1MAY96	180568.05	4325097.42	.00	.00	.00	.00
1JUN96	160262.97	4485360.39	.00	.00	.00	.00
1JUL96	169447.30	4654807.69	.00	.00	.00	.00
1AUG96	213601.98	4868409.67	.00	.00	.00	.00
1SEP96	179102.94	5047512.61	.00	.00	.00	.00
1OCT96	180228.52	5227741.13	.00	.00	.00	.00
1NOV96	194079.02	5421820.14	.00	.00	.00	.00
1DEC96	243296.63	5665116.77	.00	.00	.00	.00
1JAN97	293334.13	5958450.89	.00	.00	.00	.00
1FEB97	180074.55	6138525.44	.00	.00	.00	.00
1MAR97	91346.34	6229871.77	.00	.00	.00	.00
1APR97	87747.73	6317619.50	.00	.00	.00	.00
1MAY97	100125.87	6417745.37	.00	.00	.00	.00
1JUN97	107307.08	6525052.45	.00	.00	.00	.00
1JUL97	154527.14	6679579.59	.00	.00	.00	.00
1AUG97	166168.86	6845748.45	.00	.00	.00	.00
1SEP97	204899.20	7050647.65	.00	.00	.00	.00
1OCT97	170525.52	7221173.16	.00	.00	.00	.00
1NOV97	123472.41	7344645.58	.00	.00	.00	.00
1DEC97	107353.05	7451998.63	.00	.00	.00	.00
1JAN98	94033.30	7546031.93	.00	.00	.00	.00
1FEB98	65604.72	7611636.65	.00	.00	.00	.00
1MAR98	72165.18	7683801.83	.00	.00	.00	.00
1APR98	45398.52	7729200.34	.00	.00	.00	.00
1MAY98	.00	7729200.34	.00	.00	.00	.00
1JUN98	.00	7729200.34	.00	.00	.00	.00
1JUL98	.00	7729200.34	.00	.00	.00	.00
1AUG98	.00	7729200.34	.00	.00	.00	.00
1SEP98	.00	7729200.34	.00	.00	.00	.00
1OCT98	.00	7729200.34	.00	.00	.00	.00
1NOV98	.00	7729200.34	.00	.00	.00	.00
1DEC98	.00	7729200.34	.00	.00	.00	.00

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REPORT DATE 12APR95 RUN NO. 613  
14:58

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.5.2 MOLTEN SALT OXIDATION (MSO) - PROCURES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	6410.63	6410.63	.00	.00	.00	.00
1AUG94	12344.72	18755.34	.00	.00	.00	.00
1SEP94	10033.31	28788.65	.00	.00	.00	.00
***DATA DATE***						
1OCT94	7882.90	36671.55	.00	.00	.00	.00
1NOV94	18945.63	55617.18	.00	.00	.00	.00
1DEC94	53004.19	108621.37	.00	.00	.00	.00
1JAN95	52663.24	161284.61	.00	.00	.00	.00
1FEB95	42791.84	204076.46	.00	.00	.00	.00
1MAR95	41817.99	245894.44	.00	.00	.00	.00
1APR95	39456.92	285351.37	.00	.00	.00	.00
1MAY95	26205.57	311556.94	.00	.00	.00	.00
1JUN95	14319.11	325876.05	.00	.00	.00	.00
1JUL95	23875.56	349751.61	.00	.00	.00	.00
1AUG95	51685.74	401437.35	.00	.00	.00	.00
1SEP95	41752.71	443190.06	.00	.00	.00	.00
1OCT95	41766.97	484957.02	.00	.00	.00	.00
1NOV95	34964.71	519921.74	.00	.00	.00	.00
1DEC95	16932.99	536854.73	.00	.00	.00	.00
1JAN96	14739.23	551593.96	.00	.00	.00	.00
1FEB96	13604.72	565198.68	.00	.00	.00	.00
1MAR96	93890.48	659089.16	.00	.00	.00	.00
1APR96	119924.16	779013.32	.00	.00	.00	.00
1MAY96	119106.40	898119.72	.00	.00	.00	.00
1JUN96	109547.89	1007667.61	.00	.00	.00	.00
1JUL96	124691.50	1132359.11	.00	.00	.00	.00
1AUG96	124691.50	1257050.61	.00	.00	.00	.00
1SEP96	93628.64	1350679.25	.00	.00	.00	.00
1OCT96	81156.63	1431835.88	.00	.00	.00	.00
1NOV96	109290.69	1541126.57	.00	.00	.00	.00
1DEC96	157506.31	1698632.88	.00	.00	.00	.00
1JAN97	190665.53	1889298.41	.00	.00	.00	.00
1FEB97	77400.80	1966699.22	.00	.00	.00	.00
1MAR97	5331.24	1972030.45	.00	.00	.00	.00
1APR97	5585.11	1977615.56	.00	.00	.00	.00
1MAY97	5585.11	1983200.66	.00	.00	.00	.00
1JUN97	5331.24	1988531.90	.00	.00	.00	.00
1JUL97	5838.97	1994370.87	.00	.00	.00	.00
1AUG97	5331.24	1999702.11	.00	.00	.00	.00
1SEP97	5585.11	2005287.22	.00	.00	.00	.00
1OCT97	5838.97	2011126.19	.00	.00	.00	.00
1NOV97	5077.37	2016203.56	.00	.00	.00	.00
1DEC97	3046.42	2019249.98	.00	.00	.00	.00
1JAN98	.00	2019249.98	.00	.00	.00	.00
1FEB98	.00	2019249.98	.00	.00	.00	.00
1MAR98	.00	2019249.98	.00	.00	.00	.00
1APR98	.00	2019249.98	.00	.00	.00	.00
1MAY98	.00	2019249.98	.00	.00	.00	.00
1JUN98	.00	2019249.98	.00	.00	.00	.00
1JUL98	.00	2019249.98	.00	.00	.00	.00
1AUG98	.00	2019249.98	.00	.00	.00	.00
1SEP98	.00	2019249.98	.00	.00	.00	.00
1OCT98	.00	2019249.98	.00	.00	.00	.00
1NOV98	.00	2019249.98	.00	.00	.00	.00
1DEC98	.00	2019249.98	.00	.00	.00	.00

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REPORT DATE 12APR95 RUN NO. 612  
14:57

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.5.2 MOLTEN SALT OXIDATION (MSO) - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---		
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE	
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC						UNIT OF MEASURE = COST
1JUL94	.00	.00	.00	.00	.00	.00	
1AUG94	.00	.00	.00	.00	.00	.00	
1SEP94	992.00	992.00	.00	.00	.00	.00	
***DATA DATE***							
1OCT94	1922.22	2914.22	.00	.00	.00	.00	
1NOV94	1780.31	4694.53	.00	.00	.00	.00	
1DEC94	1503.90	6198.44	.00	.00	.00	.00	
1JAN95	2010.81	8209.25	.00	.00	.00	.00	
1FEB95	2067.57	10276.82	.00	.00	.00	.00	
1MAR95	2457.60	12734.42	.00	.00	.00	.00	
1APR95	7534.50	20268.93	.00	.00	.00	.00	
1MAY95	3622.33	23891.26	.00	.00	.00	.00	
1JUN95	3539.46	27430.72	.00	.00	.00	.00	
1JUL95	5140.65	32571.37	.00	.00	.00	.00	
1AUG95	5787.18	38358.55	.00	.00	.00	.00	
1SEP95	5032.33	43390.88	.00	.00	.00	.00	
1OCT95	5762.47	49153.34	.00	.00	.00	.00	
1NOV95	4196.50	53349.84	.00	.00	.00	.00	
1DEC95	3158.03	56507.87	.00	.00	.00	.00	
1JAN96	3071.09	59578.96	.00	.00	.00	.00	
1FEB96	3566.96	63145.92	.00	.00	.00	.00	
1MAR96	3326.50	66472.42	.00	.00	.00	.00	
1APR96	1643.43	68115.84	.00	.00	.00	.00	
1MAY96	636.06	68751.91	.00	.00	.00	.00	
1JUN96	248.09	69000.00	.00	.00	.00	.00	
1JUL96	.00	69000.00	.00	.00	.00	.00	
1AUG96	.00	69000.00	.00	.00	.00	.00	
1SEP96	.00	69000.00	.00	.00	.00	.00	
1OCT96	.00	69000.00	.00	.00	.00	.00	
1NOV96	.00	69000.00	.00	.00	.00	.00	
1DEC96	.00	69000.00	.00	.00	.00	.00	
1JAN97	.00	69000.00	.00	.00	.00	.00	
1FEB97	.00	69000.00	.00	.00	.00	.00	
1MAR97	.00	69000.00	.00	.00	.00	.00	
1APR97	.00	69000.00	.00	.00	.00	.00	
1MAY97	.00	69000.00	.00	.00	.00	.00	
1JUN97	.00	69000.00	.00	.00	.00	.00	
1JUL97	.00	69000.00	.00	.00	.00	.00	
1AUG97	.00	69000.00	.00	.00	.00	.00	
1SEP97	.00	69000.00	.00	.00	.00	.00	
1OCT97	.00	69000.00	.00	.00	.00	.00	
1NOV97	.00	69000.00	.00	.00	.00	.00	
1DEC97	.00	69000.00	.00	.00	.00	.00	
1JAN98	.00	69000.00	.00	.00	.00	.00	
1FEB98	.00	69000.00	.00	.00	.00	.00	
1MAR98	.00	69000.00	.00	.00	.00	.00	
1APR98	.00	69000.00	.00	.00	.00	.00	
1MAY98	.00	69000.00	.00	.00	.00	.00	
1JUN98	.00	69000.00	.00	.00	.00	.00	
1JUL98	.00	69000.00	.00	.00	.00	.00	
1AUG98	.00	69000.00	.00	.00	.00	.00	
1SEP98	.00	69000.00	.00	.00	.00	.00	
1OCT98	.00	69000.00	.00	.00	.00	.00	
1NOV98	.00	69000.00	.00	.00	.00	.00	
1DEC98	.00	69000.00	.00	.00	.00	.00	

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	108107.00	108107.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	13377.10	121484.10	.00	.00	.00	.00
1NOV94	12740.10	134224.20	.00	.00	.00	.00
1DEC94	12103.09	146327.29	.00	.00	.00	.00
1JAN95	12740.10	159067.39	.00	.00	.00	.00
1FEB95	12103.09	171170.49	.00	.00	.00	.00
1MAR95	14651.11	185821.60	.00	.00	.00	.00
1APR95	12103.09	197924.69	.00	.00	.00	.00
1MAY95	14014.11	211938.80	.00	.00	.00	.00
1JUN95	14014.11	225952.91	.00	.00	.00	.00
1JUL95	12740.10	238693.01	.00	.00	.00	.00
1AUG95	14651.11	253344.12	.00	.00	.00	.00
1SEP95	12740.10	266084.22	.00	.00	.00	.00
1OCT95	.00	266084.22	.00	.00	.00	.00
1NOV95	.00	266084.22	.00	.00	.00	.00
1DEC95	.00	266084.22	.00	.00	.00	.00
1JAN96	.00	266084.22	.00	.00	.00	.00
1FEB96	.00	266084.22	.00	.00	.00	.00
1MAR96	.00	266084.22	.00	.00	.00	.00
1APR96	.00	266084.22	.00	.00	.00	.00
1MAY96	.00	266084.22	.00	.00	.00	.00
1JUN96	.00	266084.22	.00	.00	.00	.00
1JUL96	.00	266084.22	.00	.00	.00	.00
1AUG96	.00	266084.22	.00	.00	.00	.00
1SEP96	.00	266084.22	.00	.00	.00	.00
1OCT96	.00	266084.22	.00	.00	.00	.00
1NOV96	.00	266084.22	.00	.00	.00	.00
1DEC96	.00	266084.22	.00	.00	.00	.00
1JAN97	.00	266084.22	.00	.00	.00	.00
1FEB97	.00	266084.22	.00	.00	.00	.00
1MAR97	.00	266084.22	.00	.00	.00	.00
1APR97	.00	266084.22	.00	.00	.00	.00
1MAY97	.00	266084.22	.00	.00	.00	.00
1JUN97	.00	266084.22	.00	.00	.00	.00
1JUL97	.00	266084.22	.00	.00	.00	.00
1AUG97	.00	266084.22	.00	.00	.00	.00
1SEP97	.00	266084.22	.00	.00	.00	.00
1OCT97	26491.26	292575.48	.00	.00	.00	.00
1NOV97	23035.88	315611.36	.00	.00	.00	.00
1DEC97	26491.26	342102.62	.00	.00	.00	.00
1JAN98	25339.47	367442.09	.00	.00	.00	.00
1FEB98	23035.88	390477.97	.00	.00	.00	.00
1MAR98	25339.47	415817.44	.00	.00	.00	.00
1APR98	.00	415817.44	.00	.00	.00	.00
1MAY98	.00	415817.44	.00	.00	.00	.00
1JUN98	.00	415817.44	.00	.00	.00	.00
1JUL98	.00	415817.44	.00	.00	.00	.00
1AUG98	.00	415817.44	.00	.00	.00	.00
1SEP98	.00	415817.44	.00	.00	.00	.00
1OCT98	.00	415817.44	.00	.00	.00	.00
1NOV98	.00	415817.44	.00	.00	.00	.00
1DEC98	.00	415817.44	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 594  
14:42

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.1 PROCESS TRANSPORT & STORAGE

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	26299.00	26299.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	7145.42	33444.42	.00	.00	.00	.00
1NOV94	7109.43	40553.85	.00	.00	.00	.00
1DEC94	6753.96	47307.81	.00	.00	.00	.00
1JAN95	7109.43	54417.24	.00	.00	.00	.00
1FEB95	8912.58	63329.82	.00	.00	.00	.00
1MAR95	11722.15	75051.98	.00	.00	.00	.00
1APR95	9683.52	84735.49	.00	.00	.00	.00
1MAY95	11212.49	95947.99	.00	.00	.00	.00
1JUN95	11212.49	107160.48	.00	.00	.00	.00
1JUL95	4333.50	111493.99	.00	.00	.00	.00
1AUG95	4983.53	116477.52	.00	.00	.00	.00
1SEP95	4333.50	120811.02	.00	.00	.00	.00
1OCT95	4766.86	125577.88	.00	.00	.00	.00
1NOV95	4333.50	129911.38	.00	.00	.00	.00
1DEC95	4116.83	134028.21	.00	.00	.00	.00
1JAN96	4333.50	138361.72	.00	.00	.00	.00
1FEB96	6721.43	145083.15	.00	.00	.00	.00
1MAR96	7684.33	152767.48	.00	.00	.00	.00
1APR96	27968.70	180736.18	.00	.00	.00	.00
1MAY96	29300.54	210036.71	.00	.00	.00	.00
1JUN96	26636.85	236673.57	.00	.00	.00	.00
1JUL96	28901.70	265575.26	.00	.00	.00	.00
1AUG96	28901.70	294476.96	.00	.00	.00	.00
1SEP96	26274.27	320751.23	.00	.00	.00	.00
1OCT96	30215.41	350966.64	.00	.00	.00	.00
1NOV96	24960.56	375927.20	.00	.00	.00	.00
1DEC96	24960.56	400887.76	.00	.00	.00	.00
1JAN97	30215.41	431103.17	.00	.00	.00	.00
1FEB97	26274.27	457377.44	.00	.00	.00	.00
1MAR97	27587.99	484965.43	.00	.00	.00	.00
1APR97	28901.70	513867.12	.00	.00	.00	.00
1MAY97	28901.70	542768.82	.00	.00	.00	.00
1JUN97	27587.99	570356.81	.00	.00	.00	.00
1JUL97	35035.52	605392.33	.00	.00	.00	.00
1AUG97	11704.60	617096.93	.00	.00	.00	.00
1SEP97	12261.96	629358.89	.00	.00	.00	.00
1OCT97	12819.32	642178.21	.00	.00	.00	.00
1NOV97	11147.23	653325.44	.00	.00	.00	.00
1DEC97	12819.32	666144.76	.00	.00	.00	.00
1JAN98	.00	666144.76	.00	.00	.00	.00
1FEB98	.00	666144.76	.00	.00	.00	.00
1MAR98	.00	666144.76	.00	.00	.00	.00
1APR98	.00	666144.76	.00	.00	.00	.00
1MAY98	.00	666144.76	.00	.00	.00	.00
1JUN98	.00	666144.76	.00	.00	.00	.00
1JUL98	.00	666144.76	.00	.00	.00	.00
1AUG98	.00	666144.76	.00	.00	.00	.00
1SEP98	.00	666144.76	.00	.00	.00	.00
1OCT98	.00	666144.76	.00	.00	.00	.00
1NOV98	.00	666144.76	.00	.00	.00	.00
1DEC98	.00	666144.76	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 609  
14:54

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.1 PROCESS TRANSPORT & STORAGE - PROCURE

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROCURE - PROCUREMENT DOLLARS			UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	2327.03	2327.03	.00	.00	.00	.00
1NOV94	2216.22	4543.24	.00	.00	.00	.00
1DEC94	2105.41	6648.65	.00	.00	.00	.00
1JAN95	2216.22	8864.87	.00	.00	.00	.00
1FEB95	2105.41	10970.27	.00	.00	.00	.00
1MAR95	2548.65	13518.92	.00	.00	.00	.00
1APR95	2105.41	15624.32	.00	.00	.00	.00
1MAY95	2437.84	18062.16	.00	.00	.00	.00
1JUN95	2437.84	20500.00	.00	.00	.00	.00
1JUL95	.00	20500.00	.00	.00	.00	.00
1AUG95	.00	20500.00	.00	.00	.00	.00
1SEP95	.00	20500.00	.00	.00	.00	.00
1OCT95	.00	20500.00	.00	.00	.00	.00
1NOV95	.00	20500.00	.00	.00	.00	.00
1DEC95	.00	20500.00	.00	.00	.00	.00
1JAN96	.00	20500.00	.00	.00	.00	.00
1FEB96	.00	20500.00	.00	.00	.00	.00
1MAR96	.00	20500.00	.00	.00	.00	.00
1APR96	19221.18	39721.18	.00	.00	.00	.00
1MAY96	20136.47	59857.65	.00	.00	.00	.00
1JUN96	18305.88	78163.53	.00	.00	.00	.00
1JUL96	20136.47	98300.00	.00	.00	.00	.00
1AUG96	20136.47	118436.47	.00	.00	.00	.00
1SEP96	18305.88	136742.35	.00	.00	.00	.00
1OCT96	21051.77	157794.12	.00	.00	.00	.00
1NOV96	17390.59	175184.71	.00	.00	.00	.00
1DEC96	17390.59	192575.30	.00	.00	.00	.00
1JAN97	21051.77	213627.06	.00	.00	.00	.00
1FEB97	18305.88	231932.94	.00	.00	.00	.00
1MAR97	19221.18	251154.12	.00	.00	.00	.00
1APR97	20136.47	271290.59	.00	.00	.00	.00
1MAY97	20136.47	291427.06	.00	.00	.00	.00
1JUN97	19221.18	310648.24	.00	.00	.00	.00
1JUL97	21051.77	331700.00	.00	.00	.00	.00
1AUG97	.00	331700.00	.00	.00	.00	.00
1SEP97	.00	331700.00	.00	.00	.00	.00
1OCT97	.00	331700.00	.00	.00	.00	.00
1NOV97	.00	331700.00	.00	.00	.00	.00
1DEC97	.00	331700.00	.00	.00	.00	.00
1JAN98	.00	331700.00	.00	.00	.00	.00
1FEB98	.00	331700.00	.00	.00	.00	.00
1MAR98	.00	331700.00	.00	.00	.00	.00
1APR98	.00	331700.00	.00	.00	.00	.00
1MAY98	.00	331700.00	.00	.00	.00	.00
1JUN98	.00	331700.00	.00	.00	.00	.00
1JUL98	.00	331700.00	.00	.00	.00	.00
1AUG98	.00	331700.00	.00	.00	.00	.00
1SEP98	.00	331700.00	.00	.00	.00	.00
1OCT98	.00	331700.00	.00	.00	.00	.00
1NOV98	.00	331700.00	.00	.00	.00	.00
1DEC98	.00	331700.00	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	49.41	49.41	.00	.00	.00	.00
1MAY96	51.76	101.18	.00	.00	.00	.00
1JUN96	47.06	148.24	.00	.00	.00	.00
1JUL96	51.76	200.00	.00	.00	.00	.00
1AUG96	51.76	251.76	.00	.00	.00	.00
1SEP96	47.06	298.82	.00	.00	.00	.00
1OCT96	54.12	352.94	.00	.00	.00	.00
1NOV96	44.71	397.65	.00	.00	.00	.00
1DEC96	44.71	442.35	.00	.00	.00	.00
1JAN97	54.12	496.47	.00	.00	.00	.00
1FEB97	47.06	543.53	.00	.00	.00	.00
1MAR97	49.41	592.94	.00	.00	.00	.00
1APR97	51.76	644.71	.00	.00	.00	.00
1MAY97	51.76	696.47	.00	.00	.00	.00
1JUN97	49.41	745.88	.00	.00	.00	.00
1JUL97	54.12	800.00	.00	.00	.00	.00
1AUG97	.00	800.00	.00	.00	.00	.00
1SEP97	.00	800.00	.00	.00	.00	.00
1OCT97	.00	800.00	.00	.00	.00	.00
1NOV97	.00	800.00	.00	.00	.00	.00
1DEC97	.00	800.00	.00	.00	.00	.00
1JAN98	.00	800.00	.00	.00	.00	.00
1FEB98	.00	800.00	.00	.00	.00	.00
1MAR98	.00	800.00	.00	.00	.00	.00
1APR98	.00	800.00	.00	.00	.00	.00
1MAY98	.00	800.00	.00	.00	.00	.00
1JUN98	.00	800.00	.00	.00	.00	.00
1JUL98	.00	800.00	.00	.00	.00	.00
1AUG98	.00	800.00	.00	.00	.00	.00
1SEP98	.00	800.00	.00	.00	.00	.00
1OCT98	.00	800.00	.00	.00	.00	.00
1NOV98	.00	800.00	.00	.00	.00	.00
1DEC98	.00	800.00	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	35828.00	35828.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	9769.67	45597.67	.00	.00	.00	.00
1NOV94	9304.45	54902.12	.00	.00	.00	.00
1DEC94	8839.22	63741.34	.00	.00	.00	.00
1JAN95	9304.45	73045.79	.00	.00	.00	.00
1FEB95	8839.22	81885.01	.00	.00	.00	.00
1MAR95	10700.11	92585.13	.00	.00	.00	.00
1APR95	8839.22	101424.35	.00	.00	.00	.00
1MAY95	10234.89	111659.24	.00	.00	.00	.00
1JUN95	10234.89	121894.13	.00	.00	.00	.00
1JUL95	9304.45	131198.58	.00	.00	.00	.00
1AUG95	37383.19	168581.76	.00	.00	.00	.00
1SEP95	27297.98	195879.75	.00	.00	.00	.00
1OCT95	30027.79	225907.53	.00	.00	.00	.00
1NOV95	27297.98	253205.52	.00	.00	.00	.00
1DEC95	25933.09	279138.61	.00	.00	.00	.00
1JAN96	27297.98	306436.59	.00	.00	.00	.00
1FEB96	27297.98	333734.58	.00	.00	.00	.00
1MAR96	28662.89	362397.46	.00	.00	.00	.00
1APR96	28662.89	391060.35	.00	.00	.00	.00
1MAY96	30027.79	421088.13	.00	.00	.00	.00
1JUN96	29336.18	450424.31	.00	.00	.00	.00
1JUL96	32387.79	482812.10	.00	.00	.00	.00
1AUG96	32387.79	515199.90	.00	.00	.00	.00
1SEP96	29443.45	544643.35	.00	.00	.00	.00
1OCT96	57635.92	602279.26	.00	.00	.00	.00
1NOV96	41909.27	644188.53	.00	.00	.00	.00
1DEC96	41909.27	686097.80	.00	.00	.00	.00
1JAN97	50732.27	736830.07	.00	.00	.00	.00
1FEB97	44115.02	780945.08	.00	.00	.00	.00
1MAR97	46320.77	827265.85	.00	.00	.00	.00
1APR97	48526.53	875792.38	.00	.00	.00	.00
1MAY97	52124.80	927917.18	.00	.00	.00	.00
1JUN97	49755.48	977672.66	.00	.00	.00	.00
1JUL97	54494.10	1032166.76	.00	.00	.00	.00
1AUG97	58370.09	1090536.86	.00	.00	.00	.00
1SEP97	75814.95	1166351.81	.00	.00	.00	.00
1OCT97	73031.97	1239383.78	.00	.00	.00	.00
1NOV97	70792.10	1310175.88	.00	.00	.00	.00
1DEC97	79257.27	1389433.15	.00	.00	.00	.00
1JAN98	54181.16	1443614.30	.00	.00	.00	.00
1FEB98	48891.29	1492505.60	.00	.00	.00	.00
1MAR98	59726.33	1552231.93	.00	.00	.00	.00
1APR98	61082.31	1613314.24	.00	.00	.00	.00
1MAY98	2776.47	1616090.71	.00	.00	.00	.00
1JUN98	.00	1616090.71	.00	.00	.00	.00
1JUL98	.00	1616090.71	.00	.00	.00	.00
1AUG98	.00	1616090.71	.00	.00	.00	.00
1SEP98	.00	1616090.71	.00	.00	.00	.00
1OCT98	.00	1616090.71	.00	.00	.00	.00
1NOV98	.00	1616090.71	.00	.00	.00	.00
1DEC98	.00	1616090.71	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 607  
14:52

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.2 ANALYTICAL LABORATORY - PROCUREMENTS

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	4914.09	4914.09	.00	.00	.00	.00
1SEP95	4467.35	9381.44	.00	.00	.00	.00
1OCT95	4914.09	14295.53	.00	.00	.00	.00
1NOV95	4467.35	18762.89	.00	.00	.00	.00
1DEC95	4243.99	23006.87	.00	.00	.00	.00
1JAN96	4467.35	27474.23	.00	.00	.00	.00
1FEB96	4467.35	31941.58	.00	.00	.00	.00
1MAR96	4690.72	36632.30	.00	.00	.00	.00
1APR96	4690.72	41323.02	.00	.00	.00	.00
1MAY96	4914.09	46237.11	.00	.00	.00	.00
1JUN96	4467.35	50704.47	.00	.00	.00	.00
1JUL96	4914.09	55618.56	.00	.00	.00	.00
1AUG96	4914.09	60532.65	.00	.00	.00	.00
1SEP96	4467.35	65000.00	.00	.00	.00	.00
1OCT96	16668.48	81668.48	.00	.00	.00	.00
1NOV96	13867.61	95536.10	.00	.00	.00	.00
1DEC96	13867.61	109403.71	.00	.00	.00	.00
1JAN97	16787.11	126190.82	.00	.00	.00	.00
1FEB97	14597.49	140788.31	.00	.00	.00	.00
1MAR97	15327.36	156115.67	.00	.00	.00	.00
1APR97	16057.24	172172.91	.00	.00	.00	.00
1MAY97	16057.24	188230.15	.00	.00	.00	.00
1JUN97	15327.36	203557.51	.00	.00	.00	.00
1JUL97	16787.11	220344.62	.00	.00	.00	.00
1AUG97	19582.68	239927.30	.00	.00	.00	.00
1SEP97	27759.36	267686.67	.00	.00	.00	.00
1OCT97	29021.15	296707.82	.00	.00	.00	.00
1NOV97	25235.79	321943.60	.00	.00	.00	.00
1DEC97	27957.32	349900.93	.00	.00	.00	.00
1JAN98	16057.24	365958.17	.00	.00	.00	.00
1FEB98	14597.49	380555.65	.00	.00	.00	.00
1MAR98	16057.24	396612.89	.00	.00	.00	.00
1APR98	16057.24	412670.13	.00	.00	.00	.00
1MAY98	729.87	413400.00	.00	.00	.00	.00
1JUN98	.00	413400.00	.00	.00	.00	.00
1JUL98	.00	413400.00	.00	.00	.00	.00
1AUG98	.00	413400.00	.00	.00	.00	.00
1SEP98	.00	413400.00	.00	.00	.00	.00
1OCT98	.00	413400.00	.00	.00	.00	.00
1NOV98	.00	413400.00	.00	.00	.00	.00
1DEC98	.00	413400.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 606  
14:51

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.6.2 ANALYTICAL LABORATORY - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---		
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE	
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC						UNIT OF MEASURE = COST
1JUL94	.00	.00	.00	.00	.00	.00	
1AUG94	.00	.00	.00	.00	.00	.00	
1SEP94	.00	.00	.00	.00	.00	.00	
***DATA DATE***							
1OCT94	1024.39	1024.39	.00	.00	.00	.00	
1NOV94	975.61	2000.00	.00	.00	.00	.00	
1DEC94	926.83	2926.83	.00	.00	.00	.00	
1JAN95	975.61	3902.44	.00	.00	.00	.00	
1FEB95	926.83	4829.27	.00	.00	.00	.00	
1MAR95	1121.95	5951.22	.00	.00	.00	.00	
1APR95	926.83	6878.05	.00	.00	.00	.00	
1MAY95	1073.17	7951.22	.00	.00	.00	.00	
1JUN95	1073.17	9024.39	.00	.00	.00	.00	
1JUL95	975.61	10000.00	.00	.00	.00	.00	
1AUG95	5756.01	15756.01	.00	.00	.00	.00	
1SEP95	687.29	16443.30	.00	.00	.00	.00	
1OCT95	756.01	17199.31	.00	.00	.00	.00	
1NOV95	687.29	17886.60	.00	.00	.00	.00	
1DEC95	652.92	18539.52	.00	.00	.00	.00	
1JAN96	687.29	19226.80	.00	.00	.00	.00	
1FEB96	687.29	19914.09	.00	.00	.00	.00	
1MAR96	721.65	20635.74	.00	.00	.00	.00	
1APR96	721.65	21357.39	.00	.00	.00	.00	
1MAY96	756.01	22113.40	.00	.00	.00	.00	
1JUN96	1247.76	23361.16	.00	.00	.00	.00	
1JUL96	1404.98	24766.14	.00	.00	.00	.00	
1AUG96	1404.98	26171.12	.00	.00	.00	.00	
1SEP96	1277.26	27448.38	.00	.00	.00	.00	
1OCT96	6240.81	33689.19	.00	.00	.00	.00	
1NOV96	1025.02	34714.21	.00	.00	.00	.00	
1DEC96	1025.02	35739.23	.00	.00	.00	.00	
1JAN97	1240.81	36980.04	.00	.00	.00	.00	
1FEB97	1078.97	38059.01	.00	.00	.00	.00	
1MAR97	1132.92	39191.93	.00	.00	.00	.00	
1APR97	1186.86	40378.79	.00	.00	.00	.00	
1MAY97	1186.86	41565.66	.00	.00	.00	.00	
1JUN97	1132.92	42698.57	.00	.00	.00	.00	
1JUL97	1240.81	43939.39	.00	.00	.00	.00	
1AUG97	1132.92	45072.30	.00	.00	.00	.00	
1SEP97	1186.86	46259.17	.00	.00	.00	.00	
1OCT97	562.35	46821.52	.00	.00	.00	.00	
1NOV97	489.00	47310.51	.00	.00	.00	.00	
1DEC97	562.35	47872.86	.00	.00	.00	.00	
1JAN98	537.90	48410.76	.00	.00	.00	.00	
1FEB98	489.00	48899.76	.00	.00	.00	.00	
1MAR98	537.90	49437.65	.00	.00	.00	.00	
1APR98	537.90	49975.55	.00	.00	.00	.00	
1MAY98	24.45	50000.00	.00	.00	.00	.00	
1JUN98	.00	50000.00	.00	.00	.00	.00	
1JUL98	.00	50000.00	.00	.00	.00	.00	
1AUG98	.00	50000.00	.00	.00	.00	.00	
1SEP98	.00	50000.00	.00	.00	.00	.00	
1OCT98	.00	50000.00	.00	.00	.00	.00	
1NOV98	.00	50000.00	.00	.00	.00	.00	
1DEC98	.00	50000.00	.00	.00	.00	.00	

REPORT DATE 12APR95 RUN NO. 596  
14:43

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.3 WASTE WATER TREATMENT

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	31452.00	31452.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	31452.00	.00	.00	.00	.00
1NOV94	.00	31452.00	.00	.00	.00	.00
1DEC94	.00	31452.00	.00	.00	.00	.00
1JAN95	17074.74	48526.74	.00	.00	.00	.00
1FEB95	16221.00	64747.74	.00	.00	.00	.00
1MAR95	19635.95	84383.68	.00	.00	.00	.00
1APR95	16221.00	100604.68	.00	.00	.00	.00
1MAY95	18782.21	119386.89	.00	.00	.00	.00
1JUN95	5021.88	124408.77	.00	.00	.00	.00
1JUL95	8815.49	133224.27	.00	.00	.00	.00
1AUG95	10137.82	143362.09	.00	.00	.00	.00
1SEP95	8815.49	152177.58	.00	.00	.00	.00
1OCT95	9697.04	161874.63	.00	.00	.00	.00
1NOV95	8815.49	170690.12	.00	.00	.00	.00
1DEC95	8374.72	179064.84	.00	.00	.00	.00
1JAN96	8826.69	187891.53	.00	.00	.00	.00
1FEB96	8826.69	196718.23	.00	.00	.00	.00
1MAR96	4805.38	201523.60	.00	.00	.00	.00
1APR96	4805.38	206328.98	.00	.00	.00	.00
1MAY96	9799.21	216128.19	.00	.00	.00	.00
1JUN96	9245.84	225374.03	.00	.00	.00	.00
1JUL96	28945.61	254319.64	.00	.00	.00	.00
1AUG96	28945.61	283265.24	.00	.00	.00	.00
1SEP96	21479.23	304744.47	.00	.00	.00	.00
1OCT96	5963.51	310707.98	.00	.00	.00	.00
1NOV96	10241.67	320949.65	.00	.00	.00	.00
1DEC96	14252.28	335201.93	.00	.00	.00	.00
1JAN97	23181.26	358383.19	.00	.00	.00	.00
1FEB97	25120.27	383503.46	.00	.00	.00	.00
1MAR97	32613.59	416117.05	.00	.00	.00	.00
1APR97	42618.17	458735.22	.00	.00	.00	.00
1MAY97	37626.31	496361.53	.00	.00	.00	.00
1JUN97	30384.76	526746.29	.00	.00	.00	.00
1JUL97	54157.39	580903.68	.00	.00	.00	.00
1AUG97	43912.13	624815.80	.00	.00	.00	.00
1SEP97	40144.62	664960.42	.00	.00	.00	.00
1OCT97	49332.76	714293.18	.00	.00	.00	.00
1NOV97	56610.85	770904.03	.00	.00	.00	.00
1DEC97	80533.30	851437.33	.00	.00	.00	.00
1JAN98	34393.26	885830.59	.00	.00	.00	.00
1FEB98	36005.58	921836.17	.00	.00	.00	.00
1MAR98	25116.87	946953.03	.00	.00	.00	.00
1APR98	17270.33	964223.37	.00	.00	.00	.00
1MAY98	.00	964223.37	.00	.00	.00	.00
1JUN98	.00	964223.37	.00	.00	.00	.00
1JUL98	.00	964223.37	.00	.00	.00	.00
1AUG98	.00	964223.37	.00	.00	.00	.00
1SEP98	.00	964223.37	.00	.00	.00	.00
1OCT98	.00	964223.37	.00	.00	.00	.00
1NOV98	.00	964223.37	.00	.00	.00	.00
1DEC98	.00	964223.37	.00	.00	.00	.00

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
PROCURE - PROCUREMENT DOLLARS			UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	17187.50	17187.50	.00	.00	.00	.00
1AUG96	17187.50	34375.00	.00	.00	.00	.00
1SEP96	15625.00	50000.00	.00	.00	.00	.00
1OCT96	3593.75	53593.75	.00	.00	.00	.00
1NOV96	8093.75	61687.50	.00	.00	.00	.00
1DEC96	11968.75	73656.25	.00	.00	.00	.00
1JAN97	20218.75	93875.00	.00	.00	.00	.00
1FEB97	22375.00	116250.00	.00	.00	.00	.00
1MAR97	29531.25	145781.25	.00	.00	.00	.00
1APR97	30937.50	176718.75	.00	.00	.00	.00
1MAY97	26125.00	202843.75	.00	.00	.00	.00
1JUN97	19593.75	222437.50	.00	.00	.00	.00
1JUL97	15406.25	237843.75	.00	.00	.00	.00
1AUG97	8718.75	246562.50	.00	.00	.00	.00
1SEP97	3437.50	250000.00	.00	.00	.00	.00
1OCT97	10219.70	260219.70	.00	.00	.00	.00
1NOV97	21515.15	281734.85	.00	.00	.00	.00
1DEC97	39265.15	321000.00	.00	.00	.00	.00
1JAN98	.00	321000.00	.00	.00	.00	.00
1FEB98	.00	321000.00	.00	.00	.00	.00
1MAR98	.00	321000.00	.00	.00	.00	.00
1APR98	.00	321000.00	.00	.00	.00	.00
1MAY98	.00	321000.00	.00	.00	.00	.00
1JUN98	.00	321000.00	.00	.00	.00	.00
1JUL98	.00	321000.00	.00	.00	.00	.00
1AUG98	.00	321000.00	.00	.00	.00	.00
1SEP98	.00	321000.00	.00	.00	.00	.00
1OCT98	.00	321000.00	.00	.00	.00	.00
1NOV98	.00	321000.00	.00	.00	.00	.00
1DEC98	.00	321000.00	.00	.00	.00	.00

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	.00	.00	.00	.00	.00	.00
1NOV94	.00	.00	.00	.00	.00	.00
1DEC94	.00	.00	.00	.00	.00	.00
1JAN95	.00	.00	.00	.00	.00	.00
1FEB95	.00	.00	.00	.00	.00	.00
1MAR95	.00	.00	.00	.00	.00	.00
1APR95	.00	.00	.00	.00	.00	.00
1MAY95	.00	.00	.00	.00	.00	.00
1JUN95	.00	.00	.00	.00	.00	.00
1JUL95	.00	.00	.00	.00	.00	.00
1AUG95	.00	.00	.00	.00	.00	.00
1SEP95	.00	.00	.00	.00	.00	.00
1OCT95	.00	.00	.00	.00	.00	.00
1NOV95	.00	.00	.00	.00	.00	.00
1DEC95	.00	.00	.00	.00	.00	.00
1JAN96	.00	.00	.00	.00	.00	.00
1FEB96	.00	.00	.00	.00	.00	.00
1MAR96	.00	.00	.00	.00	.00	.00
1APR96	.00	.00	.00	.00	.00	.00
1MAY96	.00	.00	.00	.00	.00	.00
1JUN96	.00	.00	.00	.00	.00	.00
1JUL96	1139.90	1139.90	.00	.00	.00	.00
1AUG96	1139.90	2279.79	.00	.00	.00	.00
1SEP96	1036.27	3316.06	.00	.00	.00	.00
1OCT96	1191.71	4507.77	.00	.00	.00	.00
1NOV96	984.46	5492.23	.00	.00	.00	.00
1DEC96	984.46	6476.68	.00	.00	.00	.00
1JAN97	1191.71	7668.39	.00	.00	.00	.00
1FEB97	1036.27	8704.66	.00	.00	.00	.00
1MAR97	1088.08	9792.75	.00	.00	.00	.00
1APR97	1139.90	10932.64	.00	.00	.00	.00
1MAY97	1139.90	12072.54	.00	.00	.00	.00
1JUN97	1088.08	13160.62	.00	.00	.00	.00
1JUL97	1191.71	14352.33	.00	.00	.00	.00
1AUG97	1088.08	15440.41	.00	.00	.00	.00
1SEP97	1139.90	16580.31	.00	.00	.00	.00
1OCT97	1191.71	17772.02	.00	.00	.00	.00
1NOV97	1036.27	18808.29	.00	.00	.00	.00
1DEC97	1191.71	20000.00	.00	.00	.00	.00
1JAN98	.00	20000.00	.00	.00	.00	.00
1FEB98	.00	20000.00	.00	.00	.00	.00
1MAR98	.00	20000.00	.00	.00	.00	.00
1APR98	.00	20000.00	.00	.00	.00	.00
1MAY98	.00	20000.00	.00	.00	.00	.00
1JUN98	.00	20000.00	.00	.00	.00	.00
1JUL98	.00	20000.00	.00	.00	.00	.00
1AUG98	.00	20000.00	.00	.00	.00	.00
1SEP98	.00	20000.00	.00	.00	.00	.00
1OCT98	.00	20000.00	.00	.00	.00	.00
1NOV98	.00	20000.00	.00	.00	.00	.00
1DEC98	.00	20000.00	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 597

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

14:43

WBS 1.6.4 FINAL FORMS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE----- USAGE CUMULATIVE		-----LATE SCHEDULE----- USAGE CUMULATIVE		---TARGET 1 SCHEDULE--- USAGE CUMULATIVE	
COST ACCOUNT = ?????????????? -						
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	366708.00	366708.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	27105.87	393813.87	.00	.00	.00	.00
1NOV94	30618.66	424432.53	.00	.00	.00	.00
1DEC94	33827.79	458260.32	.00	.00	.00	.00
1JAN95	38414.73	496675.05	.00	.00	.00	.00
1FEB95	38167.90	534842.95	.00	.00	.00	.00
1MAR95	66017.63	600860.57	.00	.00	.00	.00
1APR95	44554.57	645415.15	.00	.00	.00	.00
1MAY95	35183.98	680599.13	.00	.00	.00	.00
1JUN95	17040.55	697639.68	.00	.00	.00	.00
1JUL95	14632.83	712272.51	.00	.00	.00	.00
1AUG95	15819.36	728091.87	.00	.00	.00	.00
1SEP95	12865.15	740957.02	.00	.00	.00	.00
1OCT95	29905.74	770862.76	.00	.00	.00	.00
1NOV95	31227.22	802089.98	.00	.00	.00	.00
1DEC95	29323.19	831413.17	.00	.00	.00	.00
1JAN96	33854.94	865268.11	.00	.00	.00	.00
1FEB96	49118.18	914386.29	.00	.00	.00	.00
1MAR96	54107.53	968493.82	.00	.00	.00	.00
1APR96	55161.47	1023655.29	.00	.00	.00	.00
1MAY96	57612.27	1081267.56	.00	.00	.00	.00
1JUN96	51207.98	1132475.54	.00	.00	.00	.00
1JUL96	54638.32	1187113.85	.00	.00	.00	.00
1AUG96	53030.54	1240144.39	.00	.00	.00	.00
1SEP96	34526.86	1274671.25	.00	.00	.00	.00
1OCT96	35074.77	1309746.02	.00	.00	.00	.00
1NOV96	29150.84	1338896.87	.00	.00	.00	.00
1DEC96	29958.50	1368855.36	.00	.00	.00	.00
1JAN97	36692.57	1405547.93	.00	.00	.00	.00
1FEB97	32791.21	1438339.14	.00	.00	.00	.00
1MAR97	34907.09	1473246.23	.00	.00	.00	.00
1APR97	46338.55	1519584.78	.00	.00	.00	.00
1MAY97	47174.91	1566759.69	.00	.00	.00	.00
1JUN97	45435.24	1612194.93	.00	.00	.00	.00
1JUL97	54400.13	1666595.06	.00	.00	.00	.00
1AUG97	49748.60	1716343.66	.00	.00	.00	.00
1SEP97	51572.91	1767916.57	.00	.00	.00	.00
1OCT97	53711.64	1821628.21	.00	.00	.00	.00
1NOV97	46265.95	1867894.15	.00	.00	.00	.00
1DEC97	52313.94	1920208.09	.00	.00	.00	.00
1JAN98	40881.54	1961089.63	.00	.00	.00	.00
1FEB98	36359.84	1997449.48	.00	.00	.00	.00
1MAR98	39710.25	2037159.72	.00	.00	.00	.00
1APR98	.00	2037159.72	.00	.00	.00	.00
1MAY98	.00	2037159.72	.00	.00	.00	.00
1JUN98	.00	2037159.72	.00	.00	.00	.00
1JUL98	.00	2037159.72	.00	.00	.00	.00
1AUG98	.00	2037159.72	.00	.00	.00	.00
1SEP98	.00	2037159.72	.00	.00	.00	.00
1OCT98	.00	2037159.72	.00	.00	.00	.00
1NOV98	.00	2037159.72	.00	.00	.00	.00
1DEC98	.00	2037159.72	.00	.00	.00	.00

PERIOD BEGINNING	----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	1493.63	1493.63	.00	.00	.00	.00
1NOV94	1422.50	2916.13	.00	.00	.00	.00
1DEC94	1351.38	4267.50	.00	.00	.00	.00
1JAN95	1422.50	5690.00	.00	.00	.00	.00
1FEB95	1351.38	7041.38	.00	.00	.00	.00
1MAR95	7960.88	15002.25	.00	.00	.00	.00
1APR95	6576.38	21578.63	.00	.00	.00	.00
1MAY95	6928.23	28506.85	.00	.00	.00	.00
1JUN95	878.23	29385.08	.00	.00	.00	.00
1JUL95	798.39	30183.47	.00	.00	.00	.00
1AUG95	918.15	31101.61	.00	.00	.00	.00
1SEP95	798.39	31900.00	.00	.00	.00	.00
1OCT95	14434.34	46334.34	.00	.00	.00	.00
1NOV95	13122.13	59456.47	.00	.00	.00	.00
1DEC95	12466.02	71922.49	.00	.00	.00	.00
1JAN96	12508.25	84430.74	.00	.00	.00	.00
1FEB96	21094.55	105525.28	.00	.00	.00	.00
1MAR96	22149.27	127674.56	.00	.00	.00	.00
1APR96	22149.27	149823.83	.00	.00	.00	.00
1MAY96	23204.00	173027.83	.00	.00	.00	.00
1JUN96	21094.55	194122.38	.00	.00	.00	.00
1JUL96	23204.00	217326.38	.00	.00	.00	.00
1AUG96	23204.00	240530.38	.00	.00	.00	.00
1SEP96	12905.36	253435.73	.00	.00	.00	.00
1OCT96	20250.98	273686.71	.00	.00	.00	.00
1NOV96	16729.07	290415.78	.00	.00	.00	.00
1DEC96	16729.07	307144.85	.00	.00	.00	.00
1JAN97	20250.98	327395.83	.00	.00	.00	.00
1FEB97	17609.55	345005.38	.00	.00	.00	.00
1MAR97	18490.02	363495.40	.00	.00	.00	.00
1APR97	20605.20	384100.60	.00	.00	.00	.00
1MAY97	20605.20	404705.79	.00	.00	.00	.00
1JUN97	19668.60	424374.39	.00	.00	.00	.00
1JUL97	21541.79	445916.18	.00	.00	.00	.00
1AUG97	19668.60	465584.78	.00	.00	.00	.00
1SEP97	20605.20	486189.98	.00	.00	.00	.00
1OCT97	21541.79	507731.77	.00	.00	.00	.00
1NOV97	18732.00	526463.77	.00	.00	.00	.00
1DEC97	21485.67	547949.44	.00	.00	.00	.00
1JAN98	19370.50	567319.94	.00	.00	.00	.00
1FEB98	17609.55	584929.49	.00	.00	.00	.00
1MAR98	19370.50	604299.99	.00	.00	.00	.00
1APR98	.00	604299.99	.00	.00	.00	.00
1MAY98	.00	604299.99	.00	.00	.00	.00
1JUN98	.00	604299.99	.00	.00	.00	.00
1JUL98	.00	604299.99	.00	.00	.00	.00
1AUG98	.00	604299.99	.00	.00	.00	.00
1SEP98	.00	604299.99	.00	.00	.00	.00
1OCT98	.00	604299.99	.00	.00	.00	.00
1NOV98	.00	604299.99	.00	.00	.00	.00
1DEC98	.00	604299.99	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 603

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

14:48

WBS 1.6.4 FINAL FORMS - EXPENSES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EXPENSES - MISC EXPENSES - TRAVEL, TID, S&E, ETC		UNIT OF MEASURE = COST			
1JUL94	.00	.00	.00	.00	.00	.00
1AUG94	.00	.00	.00	.00	.00	.00
1SEP94	.00	.00	.00	.00	.00	.00
***DATA DATE***						
1OCT94	4758.00	4758.00	.00	.00	.00	.00
1NOV94	4531.43	9289.42	.00	.00	.00	.00
1DEC94	4304.85	13594.28	.00	.00	.00	.00
1JAN95	4531.43	18125.71	.00	.00	.00	.00
1FEB95	4757.24	22882.94	.00	.00	.00	.00
1MAR95	6872.82	29755.76	.00	.00	.00	.00
1APR95	4913.69	34669.46	.00	.00	.00	.00
1MAY95	3505.14	38174.60	.00	.00	.00	.00
1JUN95	2439.52	40614.11	.00	.00	.00	.00
1JUL95	2217.74	42831.85	.00	.00	.00	.00
1AUG95	2550.40	45382.26	.00	.00	.00	.00
1SEP95	2217.74	47600.00	.00	.00	.00	.00
1OCT95	3062.68	50662.68	.00	.00	.00	.00
1NOV95	2784.25	53446.93	.00	.00	.00	.00
1DEC95	2709.12	56156.05	.00	.00	.00	.00
1JAN96	3153.41	59309.46	.00	.00	.00	.00
1FEB96	3842.60	63152.07	.00	.00	.00	.00
1MAR96	4034.73	67186.80	.00	.00	.00	.00
1APR96	4034.73	71221.54	.00	.00	.00	.00
1MAY96	4226.86	75448.40	.00	.00	.00	.00
1JUN96	3842.60	79291.00	.00	.00	.00	.00
1JUL96	4226.86	83517.87	.00	.00	.00	.00
1AUG96	4226.86	87744.73	.00	.00	.00	.00
1SEP96	3153.41	90898.15	.00	.00	.00	.00
1OCT96	2449.07	93347.22	.00	.00	.00	.00
1NOV96	2023.15	95370.37	.00	.00	.00	.00
1DEC96	2023.15	97393.52	.00	.00	.00	.00
1JAN97	2449.07	99842.59	.00	.00	.00	.00
1FEB97	2129.63	101972.22	.00	.00	.00	.00
1MAR97	2236.11	104208.33	.00	.00	.00	.00
1APR97	2342.59	106550.93	.00	.00	.00	.00
1MAY97	2342.59	108893.52	.00	.00	.00	.00
1JUN97	2236.11	111129.63	.00	.00	.00	.00
1JUL97	2449.07	113578.71	.00	.00	.00	.00
1AUG97	2236.11	115814.82	.00	.00	.00	.00
1SEP97	2342.59	118157.41	.00	.00	.00	.00
1OCT97	2449.07	120606.48	.00	.00	.00	.00
1NOV97	2129.63	122736.11	.00	.00	.00	.00
1DEC97	2449.07	125185.19	.00	.00	.00	.00
1JAN98	2342.59	127527.78	.00	.00	.00	.00
1FEB98	2129.63	129657.41	.00	.00	.00	.00
1MAR98	2342.59	132000.00	.00	.00	.00	.00
1APR98	.00	132000.00	.00	.00	.00	.00
1MAY98	.00	132000.00	.00	.00	.00	.00
1JUN98	.00	132000.00	.00	.00	.00	.00
1JUL98	.00	132000.00	.00	.00	.00	.00
1AUG98	.00	132000.00	.00	.00	.00	.00
1SEP98	.00	132000.00	.00	.00	.00	.00
1OCT98	.00	132000.00	.00	.00	.00	.00
1NOV98	.00	132000.00	.00	.00	.00	.00
1DEC98	.00	132000.00	.00	.00	.00	.00

PERIOD BEGINNING	---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????						
1JUL94	71140.20	320181.62	.00	.00	.00	.00
1AUG94	81811.20	401992.82	.00	.00	.00	.00
1SEP94	74697.20	476690.02	.00	.00	.00	.00
***DATA DATE***						
1OCT94	45692.09	522382.11	.00	.00	.00	.00
1NOV94	43516.27	565898.38	.00	.00	.00	.00
1DEC94	41340.47	607238.85	.00	.00	.00	.00
1JAN95	43234.89	650473.75	.00	.00	.00	.00
1FEB95	41059.10	691532.84	.00	.00	.00	.00
1MAR95	49703.11	741235.95	.00	.00	.00	.00
1APR95	43019.36	784255.30	.00	.00	.00	.00
1MAY95	49719.57	833974.88	.00	.00	.00	.00
1JUN95	40881.39	874856.27	.00	.00	.00	.00
1JUL95	36932.12	911788.39	.00	.00	.00	.00
1AUG95	42471.93	954260.31	.00	.00	.00	.00
1SEP95	36932.12	991192.43	.00	.00	.00	.00
1OCT95	42330.52	1033522.95	.00	.00	.00	.00
1NOV95	38501.28	1072024.23	.00	.00	.00	.00
1DEC95	36576.22	1108600.45	.00	.00	.00	.00
1JAN96	38501.28	1147101.73	.00	.00	.00	.00
1FEB96	38501.28	1185603.02	.00	.00	.00	.00
1MAR96	40426.34	1226029.36	.00	.00	.00	.00
1APR96	40426.34	1266455.70	.00	.00	.00	.00
1MAY96	42351.40	1308807.10	.00	.00	.00	.00
1JUN96	38501.28	1347308.38	.00	.00	.00	.00
1JUL96	45171.28	1392479.66	.00	.00	.00	.00
1AUG96	45106.62	1437586.28	.00	.00	.00	.00
1SEP96	41006.01	1478592.29	.00	.00	.00	.00
1OCT96	62827.37	1541419.66	.00	.00	.00	.00
1NOV96	51996.95	1593416.61	.00	.00	.00	.00
1DEC96	51996.95	1645413.57	.00	.00	.00	.00
1JAN97	62943.68	1708357.24	.00	.00	.00	.00
1FEB97	54733.64	1763090.88	.00	.00	.00	.00
1MAR97	57470.31	1820561.19	.00	.00	.00	.00
1APR97	60206.99	1880768.18	.00	.00	.00	.00
1MAY97	60206.99	1940975.18	.00	.00	.00	.00
1JUN97	57470.31	1998445.49	.00	.00	.00	.00
1JUL97	64616.99	2063062.48	.00	.00	.00	.00
1AUG97	58998.12	2122060.60	.00	.00	.00	.00
1SEP97	61807.55	2183868.15	.00	.00	.00	.00
1OCT97	50515.15	2234383.30	.00	.00	.00	.00
1NOV97	39609.91	2273993.21	.00	.00	.00	.00
1DEC97	45551.40	2319544.61	.00	.00	.00	.00
1JAN98	35644.32	2355188.93	.00	.00	.00	.00
1FEB98	32403.93	2387592.86	.00	.00	.00	.00
1MAR98	35644.32	2423237.18	.00	.00	.00	.00
1APR98	35644.32	2458881.50	.00	.00	.00	.00
1MAY98	29913.96	2488795.46	.00	.00	.00	.00
1JUN98	31123.14	2519918.60	.00	.00	.00	.00
1JUL98	30604.06	2550522.66	.00	.00	.00	.00
1AUG98	27942.84	2578465.50	.00	.00	.00	.00
1SEP98	29273.45	2607738.95	.00	.00	.00	.00
1OCT98	.00	2607738.95	.00	.00	.00	.00
1NOV98	.00	2607738.95	.00	.00	.00	.00
1DEC98	.00	2607738.95	.00	.00	.00	.00

REPORT DATE 12APR95 RUN NO. 600  
14:46

TABULAR COST REPORT - MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.6.5 SUPERVISORY I&C (SIC) - PROCUREMENTS

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	PROCURE - PROCUREMENT DOLLARS		UNIT OF MEASURE = COST			
1JUL94	28817.89	119594.25	.00	.00	.00	.00
1AUG94	33140.58	152734.83	.00	.00	.00	.00
1SEP94	30258.79	182993.62	.00	.00	.00	.00
***DATA DATE***						
1OCT94	13971.77	196965.39	.00	.00	.00	.00
1NOV94	13306.45	210271.84	.00	.00	.00	.00
1DEC94	12641.13	222912.97	.00	.00	.00	.00
1JAN95	13306.45	236219.42	.00	.00	.00	.00
1FEB95	12641.13	248860.55	.00	.00	.00	.00
1MAR95	15302.42	264162.97	.00	.00	.00	.00
1APR95	12641.13	276804.10	.00	.00	.00	.00
1MAY95	14637.10	291441.20	.00	.00	.00	.00
1JUN95	14637.10	306078.29	.00	.00	.00	.00
1JUL95	13306.45	319384.74	.00	.00	.00	.00
1AUG95	15302.42	334687.16	.00	.00	.00	.00
1SEP95	13306.45	347993.61	.00	.00	.00	.00
1OCT95	15903.61	363897.23	.00	.00	.00	.00
1NOV95	14457.83	378355.06	.00	.00	.00	.00
1DEC95	13734.94	392090.00	.00	.00	.00	.00
1JAN96	14457.83	406547.83	.00	.00	.00	.00
1FEB96	14457.83	421005.66	.00	.00	.00	.00
1MAR96	15180.72	436186.38	.00	.00	.00	.00
1APR96	15180.72	451367.11	.00	.00	.00	.00
1MAY96	15903.61	467270.72	.00	.00	.00	.00
1JUN96	14457.83	481728.55	.00	.00	.00	.00
1JUL96	15903.61	497632.17	.00	.00	.00	.00
1AUG96	15903.61	513535.78	.00	.00	.00	.00
1SEP96	14457.83	527993.61	.00	.00	.00	.00
1OCT96	29738.28	557731.89	.00	.00	.00	.00
1NOV96	24566.41	582298.30	.00	.00	.00	.00
1DEC96	24566.41	606864.71	.00	.00	.00	.00
1JAN97	29738.28	636602.99	.00	.00	.00	.00
1FEB97	25859.38	662462.36	.00	.00	.00	.00
1MAR97	27152.34	689614.71	.00	.00	.00	.00
1APR97	28445.31	718060.02	.00	.00	.00	.00
1MAY97	28445.31	746505.33	.00	.00	.00	.00
1JUN97	27152.34	773657.67	.00	.00	.00	.00
1JUL97	29738.28	803395.96	.00	.00	.00	.00
1AUG97	27152.34	830548.30	.00	.00	.00	.00
1SEP97	28445.31	858993.61	.00	.00	.00	.00
1OCT97	15862.07	874855.68	.00	.00	.00	.00
1NOV97	13793.10	888648.78	.00	.00	.00	.00
1DEC97	15862.07	904510.85	.00	.00	.00	.00
1JAN98	15172.41	919683.27	.00	.00	.00	.00
1FEB98	13793.10	933476.37	.00	.00	.00	.00
1MAR98	15172.41	948648.79	.00	.00	.00	.00
1APR98	15172.41	963821.20	.00	.00	.00	.00
1MAY98	14482.76	978303.96	.00	.00	.00	.00
1JUN98	15172.41	993476.37	.00	.00	.00	.00
1JUL98	15862.07	1009338.44	.00	.00	.00	.00
1AUG98	14482.76	1023821.20	.00	.00	.00	.00
1SEP98	15172.41	1038993.61	.00	.00	.00	.00
1OCT98	.00	1038993.61	.00	.00	.00	.00
1NOV98	.00	1038993.61	.00	.00	.00	.00
1DEC98	.00	1038993.61	.00	.00	.00	.00

## 6.2 Resource Summary Reports

**Note: Project resource reports do not include procurements or expenses. Figures are in ManDays.**

## **6.2.1 Overall Project Resources**

**Note: Project resource reports do not include procurements or expenses. Figures are in ManDays.**

REPORT DATE 13APR95 RUN NO. 762  
14:13

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

TOTAL RESOURCE PROFILE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
1JUL94	0	0	161.53	507.64	.00	.00	.00	.00
1AUG94	0	0	289.23	796.87	.00	.00	.00	.00
1SEP94	0	0	361.61	1158.48	.00	.00	.00	.00
***DATA DATE***								
1OCT94	0	0	1001.99	2160.47	.00	.00	.00	.00
1NOV94	0	0	972.30	3132.77	.00	.00	.00	.00
1DEC94	0	0	989.65	4122.43	.00	.00	.00	.00
1JAN95	0	0	1106.30	5228.72	.00	.00	.00	.00
1FEB95	0	0	1100.83	6329.55	.00	.00	.00	.00
1MAR95	0	0	1257.18	7586.74	.00	.00	.00	.00
1APR95	0	0	1203.37	8790.11	.00	.00	.00	.00
1MAY95	0	0	1288.82	10078.93	.00	.00	.00	.00
1JUN95	0	0	1072.19	11151.12	.00	.00	.00	.00
1JUL95	0	0	1062.66	12213.79	.00	.00	.00	.00
1AUG95	0	0	1322.13	13535.92	.00	.00	.00	.00
1SEP95	0	0	1143.90	14679.81	.00	.00	.00	.00
1OCT95	0	0	1257.27	15937.08	.00	.00	.00	.00
1NOV95	0	0	1052.76	16989.84	.00	.00	.00	.00
1DEC95	0	0	902.58	17892.42	.00	.00	.00	.00
1JAN96	0	0	928.00	18820.43	.00	.00	.00	.00
1FEB96	0	0	917.35	19737.77	.00	.00	.00	.00
1MAR96	0	0	929.90	20667.67	.00	.00	.00	.00
1APR96	0	0	864.17	21531.84	.00	.00	.00	.00
1MAY96	0	0	893.34	22425.17	.00	.00	.00	.00
1JUN96	0	0	803.53	23228.71	.00	.00	.00	.00
1JUL96	0	0	854.03	24082.74	.00	.00	.00	.00
1AUG96	0	0	950.70	25033.44	.00	.00	.00	.00
1SEP96	0	0	892.91	25926.34	.00	.00	.00	.00
1OCT96	0	0	1020.73	26947.07	.00	.00	.00	.00
1NOV96	0	0	849.36	27796.43	.00	.00	.00	.00
1DEC96	0	0	854.11	28650.54	.00	.00	.00	.00
1JAN97	0	0	1030.76	29681.30	.00	.00	.00	.00
1FEB97	0	0	912.47	30593.77	.00	.00	.00	.00
1MAR97	0	0	959.60	31553.37	.00	.00	.00	.00
1APR97	0	0	1017.86	32571.23	.00	.00	.00	.00
1MAY97	0	0	1192.42	33763.64	.00	.00	.00	.00
1JUN97	0	0	1165.30	34928.94	.00	.00	.00	.00
1JUL97	0	0	1852.41	36781.35	.00	.00	.00	.00
1AUG97	0	0	1745.14	38526.50	.00	.00	.00	.00
1SEP97	0	0	1748.63	40275.13	.00	.00	.00	.00
1OCT97	0	0	1888.37	42163.50	.00	.00	.00	.00
1NOV97	0	0	1513.32	43676.82	.00	.00	.00	.00
1DEC97	0	0	1661.36	45338.18	.00	.00	.00	.00
1JAN98	0	0	1609.18	46947.36	.00	.00	.00	.00
1FEB98	0	0	1466.02	48413.39	.00	.00	.00	.00
1MAR98	0	0	1601.45	50014.84	.00	.00	.00	.00
1APR98	0	0	1017.91	51032.75	.00	.00	.00	.00
1MAY98	0	0	428.79	51461.54	.00	.00	.00	.00
1JUN98	0	0	442.65	51904.19	.00	.00	.00	.00
1JUL98	0	0	384.09	52288.28	.00	.00	.00	.00
1AUG98	0	0	350.69	52638.97	.00	.00	.00	.00
1SEP98	0	0	367.39	53006.36	.00	.00	.00	.00
1OCT98	0	0	.00	53006.36	.00	.00	.00	.00
1NOV98	0	0	.00	53006.36	.00	.00	.00	.00
1DEC98	0	0	.00	53006.36	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 698  
09:26

RESOURCE LOADING REPORT

START DATE 01JUN93 FIN DATE 02OCT9

MWMF - RESOURCE LOADING - TOTAL BY FISCAL YEAR

TOTAL USAGE FOR YEAR

DATA DATE 01OCT94 PAGE NO. 1

RESOURCE	RESOURCE DESCRIPTION	1995	1996	1997	1998	TOTAL
AI	ADMIN EXEMPT	892.8	940.6	869.1	277.6	2980.0
AI	0 ADMIN EXEMPT - OPEX	87.4	112.5	353.7	328.9	882.5
AM	CLERICAL SUPPT	275.3	249.4	173.7	146.6	845.0
AM	0 CLERICAL SUPPT-OPEX			21.0	50.4	71.4
BM	BOILER MAKER		23.0	113.4	12.6	149.0
C	CARPENTRY			2.7	4.2	6.9
CE	CHEMICAL ENGR	899.7	582.5	359.3	499.5	2340.9
CE	0 CHEMICAL ENGR - OPEX	25.4	71.2	75.9	113.6	286.1
CP	COMPUTER PROGRAMMER	15.0	14.6	15.0	15.3	60.0
CS	COMPUTER SCIENT	350.1	597.7	447.5	319.7	1715.0
CS	0 COMP SCIENT - OPEX			63.0	99.2	162.2
CT	COMPUTER TECH	60.4	39.1	275.2	250.9	625.6
CT	0 COMPUTER TECH - OPEX			31.5	150.1	181.6
CTD-L3	0 COSTS TO DATE - OPEX					
CTD-LIII	COSTS TO DATE-CENRTC					
E	ELEC WORK	31.5	75.8	474.0	297.2	878.5
EA	ELEC ASSOC	150.3	156.8	136.7	71.1	515.0
EA	0 ELEC ASSOC - OPEX			227.5	318.5	546.0
EC	ELEC COORD	32.1	73.4	163.1	103.9	372.5
EC	0 ELEC COORD - OPEX			33.2	108.1	141.2
ED	ELEC DESIGNER	366.9	328.8	214.1	120.4	1030.1
ED	0 ELEC DESIGNER - OPEX				10.4	10.4
EE	ELEC ENGR	1346.9	1181.4	970.6	822.6	4321.4
EE	0 ELEC ENGR - OPEX			59.4	98.7	158.0
EI	ELEC INSP		3.8	56.9	32.3	93.0
EP	0 ENGR-PLANT - OPEX			100.8	197.4	298.2
ET	ELEC TECH	125.0	67.1	339.3	364.7	896.1
ET	0 ELEC TECH - OPEX			31.5	328.6	360.1
EXP	0 MISC EXP - OPEX					
EXPENSES	MISC EXP - CENRTC					
FT	ELEC FAB TECH	47.0	44.4	185.0	200.6	477.0
L	LABORER	6.4	16.9	182.8	90.3	296.4
MA	MECH ASSOC	99.2	99.6	102.4	39.1	340.3
MA	0 MECH ASSOC - OPEX	24.8	45.9	297.2	424.6	792.5
MC	MECH COORD	227.3	347.2	352.6	141.8	1068.8
MC	0 MECH COORD - OPEX			33.2	167.4	200.5
MD	MECH DESIGNER	1987.5	1039.3	343.4	175.5	3545.7
MD	0 MECH DESIGNER - OPEX				59.3	59.3
ME	MECH ENGR	2661.9	1862.6	1303.8	769.5	6597.9
ME	0 MECH ENGR - OPEX	112.2	137.4	194.7	426.5	870.8
MI	MECH INSP		24.6	153.8	45.1	223.5
MT	MECH TECH	680.8	434.4	1737.1	1019.6	3871.8
MT	0 MECH TECH - OPEX			31.5	720.2	751.7
MW	MILLWRIGHT	5.0	23.0	226.5	213.5	468.0
OE	OPS ENG L13	434.6	235.0	120.0		789.6
OE	0 OPS ENG L13 - OPEX	331.6	331.3	713.7	788.5	2165.2
OT	0 OPS TECH L10 - OPEX			56.9	74.0	130.8
P	PAINT WORK		5.7	87.5	67.8	161.0
PE	PROGRAM ENGR	120.0	121.6	125.0	88.5	455.0
PF	PIPE FITTING	10.5	30.5	466.3	357.1	864.4
PG	PROJECT MGMT	497.3	500.7	495.3	264.2	1757.6
PG	0 PROJECT MGMT - OPEX	86.8	87.2	109.3	53.3	336.5
PROC	0 PROC DOLLARS - OPEX					
PROCURE	PROC DOLLARS-CENRTC					
QE	QUALITY ENGR	180.0	264.7	272.1	186.2	903.0
QE	0 QUALITY ENGR - OPEX	60.0	60.8	68.8	93.6	283.2
SC	SCIENT CHEMIST	695.5	549.8	508.4	387.7	2141.5
SC	0 SCIENT CHEM - OPEX	24.8	24.9	25.6	177.7	253.0
SM	SHEET METAL WORKER	5.0	5.7	82.6	89.7	183.0
TC	CHEM TECH	564.3	436.1	465.1	408.0	1873.5
TC	0 CHEM TECH - OPEX				59.3	59.3
REPORT TOTAL		13521.3	11246.5	14348.8	12731.2	51847.9



## 6.2.2 OPEX Resources

**Note: Project resource reports do not include procurements or expenses. Figures are in ManDays.**

REPORT DATE 13APR95 RUN NO. 763  
14:15

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

OPEX RESOURCE PROFILE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ???????????? -								
1JUL94	0	0	.00	.00	.00	.00	.00	.00
1AUG94	0	0	.00	.00	.00	.00	.00	.00
1SEP94	0	0	.00	.00	.00	.00	.00	.00
***DATA DATE***								
1OCT94	0	0	54.08	54.08	.00	.00	.00	.00
1NOV94	0	0	51.50	105.58	.00	.00	.00	.00
1DEC94	0	0	48.93	154.51	.00	.00	.00	.00
1JAN95	0	0	51.50	206.02	.00	.00	.00	.00
1FEB95	0	0	48.93	254.95	.00	.00	.00	.00
1MAR95	0	0	59.23	314.18	.00	.00	.00	.00
1APR95	0	0	66.17	380.35	.00	.00	.00	.00
1MAY95	0	0	76.62	456.97	.00	.00	.00	.00
1JUN95	0	0	76.62	533.59	.00	.00	.00	.00
1JUL95	0	0	69.66	603.25	.00	.00	.00	.00
1AUG95	0	0	80.10	683.35	.00	.00	.00	.00
1SEP95	0	0	69.66	753.01	.00	.00	.00	.00
1OCT95	0	0	71.40	824.41	.00	.00	.00	.00
1NOV95	0	0	64.91	889.31	.00	.00	.00	.00
1DEC95	0	0	73.51	962.83	.00	.00	.00	.00
1JAN96	0	0	77.38	1040.21	.00	.00	.00	.00
1FEB96	0	0	77.38	1117.59	.00	.00	.00	.00
1MAR96	0	0	81.25	1198.84	.00	.00	.00	.00
1APR96	0	0	81.25	1280.10	.00	.00	.00	.00
1MAY96	0	0	71.40	1351.50	.00	.00	.00	.00
1JUN96	0	0	64.91	1416.40	.00	.00	.00	.00
1JUL96	0	0	71.40	1487.80	.00	.00	.00	.00
1AUG96	0	0	71.40	1559.20	.00	.00	.00	.00
1SEP96	0	0	64.91	1624.11	.00	.00	.00	.00
1OCT96	0	0	88.02	1712.12	.00	.00	.00	.00
1NOV96	0	0	72.71	1784.83	.00	.00	.00	.00
1DEC96	0	0	72.71	1857.54	.00	.00	.00	.00
1JAN97	0	0	87.41	1944.95	.00	.00	.00	.00
1FEB97	0	0	64.39	2009.34	.00	.00	.00	.00
1MAR97	0	0	116.75	2126.10	.00	.00	.00	.00
1APR97	0	0	153.11	2279.21	.00	.00	.00	.00
1MAY97	0	0	290.40	2569.61	.00	.00	.00	.00
1JUN97	0	0	277.20	2846.81	.00	.00	.00	.00
1JUL97	0	0	496.03	3342.85	.00	.00	.00	.00
1AUG97	0	0	452.90	3795.74	.00	.00	.00	.00
1SEP97	0	0	356.58	4152.32	.00	.00	.00	.00
1OCT97	0	0	537.99	4690.31	.00	.00	.00	.00
1NOV97	0	0	366.60	5056.91	.00	.00	.00	.00
1DEC97	0	0	421.59	5478.51	.00	.00	.00	.00
1JAN98	0	0	556.56	6035.07	.00	.00	.00	.00
1FEB98	0	0	539.24	6574.30	.00	.00	.00	.00
1MAR98	0	0	593.16	7167.46	.00	.00	.00	.00
1APR98	0	0	577.39	7744.85	.00	.00	.00	.00
1MAY98	0	0	282.93	8027.78	.00	.00	.00	.00
1JUN98	0	0	296.40	8324.18	.00	.00	.00	.00
1JUL98	0	0	235.79	8559.97	.00	.00	.00	.00
1AUG98	0	0	215.29	8775.25	.00	.00	.00	.00
1SEP98	0	0	225.54	9000.79	.00	.00	.00	.00
1OCT98	0	0	.00	9000.79	.00	.00	.00	.00
1NOV98	0	0	.00	9000.79	.00	.00	.00	.00
1DEC98	0	0	.00	9000.79	.00	.00	.00	.00

RESOURCE	RESOURCE DESCRIPTION	1995	1996	1997	1998	TOTAL
AI	0 ADMIN EXEMPT - OPEX	87.4	112.5	353.7	328.9	882.5
AM	0 CLERICAL SUPPT-OPEX			21.0	50.4	71.4
CE	0 CHEMICAL ENGR - OPEX	25.4	71.2	75.9	113.6	286.1
CS	0 COMP SCIENT - OPEX			63.0	99.2	162.2
CT	0 COMPUTER TECH - OPEX			31.5	150.1	181.6
CTD-L3	0 COSTS TO DATE - OPEX					
EA	0 ELEC ASSOC - OPEX			227.5	318.5	546.0
EC	0 ELEC COORD - OPEX			33.2	108.1	141.2
ED	0 ELEC DESIGNER - OPEX				10.4	10.4
EE	0 ELEC ENGR - OPEX			59.4	98.7	158.0
EP	0 ENGR-PLANT - OPEX			100.8	197.4	298.2
ET	0 ELEC TECH - OPEX			31.5	328.6	360.1
EXP	0 MISC EXP - OPEX					
MA	0 MECH ASSOC - OPEX	24.8	45.9	297.2	424.6	792.5
MC	0 MECH COORD - OPEX			33.2	167.4	200.5
MD	0 MECH DESIGNER - OPEX				59.3	59.3
ME	0 MECH ENGR - OPEX	112.2	137.4	194.7	426.5	870.8
MT	0 MECH TECH - OPEX			31.5	720.2	751.7
OE	0 OPS ENG L13 - OPEX	331.6	331.3	713.7	788.5	2165.2
OT	0 OPS TECH L10 - OPEX			56.9	74.0	130.8
PG	0 PROJECT MGMT - OPEX	86.8	87.2	109.3	53.3	336.5
PROC	0 PROC DOLLARS - OPEX					
QE	0 QUALITY ENGR - OPEX	60.0	60.8	68.8	93.6	283.2
SC	0 SCIENT CHEM - OPEX	24.8	24.9	25.6	177.7	253.0
TC	0 CHEM TECH - OPEX				59.3	59.3
REPORT TOTAL		753.0	871.1	2528.2	4848.5	9000.8

### **6.2.3 CENRTC Resources**

**Note: Project resource reports do not include procurements or expenses. Figures are in ManDays.**

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
1JUL94	0	0	161.53	507.64	.00	.00	.00	.00
1AUG94	0	0	289.23	796.87	.00	.00	.00	.00
1SEP94	0	0	361.61	1158.48	.00	.00	.00	.00
***DATA DATE***								
1OCT94	0	0	947.91	2106.39	.00	.00	.00	.00
1NOV94	0	0	920.80	3027.19	.00	.00	.00	.00
1DEC94	0	0	940.72	3967.91	.00	.00	.00	.00
1JAN95	0	0	1054.79	5022.70	.00	.00	.00	.00
1FEB95	0	0	1051.90	6074.61	.00	.00	.00	.00
1MAR95	0	0	1197.95	7272.56	.00	.00	.00	.00
1APR95	0	0	1137.20	8409.76	.00	.00	.00	.00
1MAY95	0	0	1212.20	9621.96	.00	.00	.00	.00
1JUN95	0	0	995.57	10617.53	.00	.00	.00	.00
1JUL95	0	0	993.01	11610.54	.00	.00	.00	.00
1AUG95	0	0	1242.02	12852.56	.00	.00	.00	.00
1SEP95	0	0	1074.24	13926.80	.00	.00	.00	.00
1OCT95	0	0	1185.87	15112.67	.00	.00	.00	.00
1NOV95	0	0	987.86	16100.53	.00	.00	.00	.00
1DEC95	0	0	829.07	16929.60	.00	.00	.00	.00
1JAN96	0	0	850.62	17780.22	.00	.00	.00	.00
1FEB96	0	0	839.96	18620.18	.00	.00	.00	.00
1MAR96	0	0	848.64	19468.83	.00	.00	.00	.00
1APR96	0	0	782.92	20251.74	.00	.00	.00	.00
1MAY96	0	0	821.94	21073.68	.00	.00	.00	.00
1JUN96	0	0	738.63	21812.31	.00	.00	.00	.00
1JUL96	0	0	782.63	22594.94	.00	.00	.00	.00
1AUG96	0	0	879.30	23474.24	.00	.00	.00	.00
1SEP96	0	0	828.00	24302.24	.00	.00	.00	.00
1OCT96	0	0	932.71	25234.95	.00	.00	.00	.00
1NOV96	0	0	776.65	26011.60	.00	.00	.00	.00
1DEC96	0	0	781.40	26793.00	.00	.00	.00	.00
1JAN97	0	0	943.35	27736.35	.00	.00	.00	.00
1FEB97	0	0	848.07	28584.43	.00	.00	.00	.00
1MAR97	0	0	842.84	29427.27	.00	.00	.00	.00
1APR97	0	0	864.74	30292.01	.00	.00	.00	.00
1MAY97	0	0	902.01	31194.03	.00	.00	.00	.00
1JUN97	0	0	888.10	32082.13	.00	.00	.00	.00
1JUL97	0	0	1356.38	33438.51	.00	.00	.00	.00
1AUG97	0	0	1292.25	34730.75	.00	.00	.00	.00
1SEP97	0	0	1392.06	36122.81	.00	.00	.00	.00
1OCT97	0	0	1350.38	37473.19	.00	.00	.00	.00
1NOV97	0	0	1146.72	38619.91	.00	.00	.00	.00
1DEC97	0	0	1239.77	39859.68	.00	.00	.00	.00
1JAN98	0	0	1052.62	40912.30	.00	.00	.00	.00
1FEB98	0	0	926.79	41839.09	.00	.00	.00	.00
1MAR98	0	0	1008.29	42847.38	.00	.00	.00	.00
1APR98	0	0	440.52	43287.90	.00	.00	.00	.00
1MAY98	0	0	145.87	43433.77	.00	.00	.00	.00
1JUN98	0	0	146.25	43580.02	.00	.00	.00	.00
1JUL98	0	0	148.30	43728.32	.00	.00	.00	.00
1AUG98	0	0	135.40	43863.72	.00	.00	.00	.00
1SEP98	0	0	141.85	44005.57	.00	.00	.00	.00
1OCT98	0	0	.00	44005.57	.00	.00	.00	.00
1NOV98	0	0	.00	44005.57	.00	.00	.00	.00
1DEC98	0	0	.00	44005.57	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 684  
09:02

RESOURCE LOADING REPORT

START DATE 01JUN93 FIN DATE 02OCT98

MWMF - RESOURCE LOADING - CENRTC BY FISCAL YEAR

TOTAL USAGE FOR YEAR

DATA DATE 01OCT94 PAGE NO. 1

RESOURCE	RESOURCE DESCRIPTION	1995	1996	1997	1998	TOTAL
AI	ADMIN EXEMPT	892.8	940.6	869.1	277.6	2980.0
AM	CLERICAL SUPPT	275.3	249.4	173.7	146.6	845.0
BM	BOILER MAKER		23.0	113.4	12.6	149.0
C	CARPENTRY			2.7	4.2	6.9
CE	CHEMICAL ENGR	899.7	582.5	359.3	499.5	2340.9
CP	COMPUTER PROGRAMMER	15.0	14.6	15.0	15.3	60.0
CS	COMPUTER SCIENT	350.1	597.7	447.5	319.7	1715.0
CT	COMPUTER TECH	60.4	39.1	275.2	250.9	625.6
CTD-LIII	COSTS TO DATE-CENRTC					
E	ELEC WORK	31.5	75.8	474.0	297.2	878.5
EA	ELEC ASSOC	150.3	156.8	136.7	71.1	515.0
EC	ELEC COORD	32.1	73.4	163.1	103.9	372.5
ED	ELEC DESIGNER	366.9	328.8	214.1	120.4	1030.1
EE	ELEC ENGR	1346.9	1181.4	970.6	822.6	4321.4
EI	ELEC INSP		3.8	56.9	32.3	93.0
ET	ELEC TECH	125.0	67.1	339.3	364.7	896.1
EXPENSES	MISC EXP - CENRTC					
FT	ELEC FAB TECH	47.0	44.4	185.0	200.6	477.0
L	LABORER	6.4	16.9	182.8	90.3	296.4
MA	MECH ASSOC	99.2	99.6	102.4	39.1	340.3
MC	MECH COORD	227.3	347.2	352.6	141.8	1068.8
MD	MECH DESIGNER	1987.5	1039.3	343.4	175.5	3545.7
ME	MECH ENGR	2661.9	1862.6	1303.8	769.5	6597.9
MI	MECH INSP		24.6	153.8	45.1	223.5
MT	MECH TECH	680.8	434.4	1737.1	1019.6	3871.8
MW	MILLWRIGHT	5.0	23.0	226.5	213.5	468.0
OE	OPS ENG L13	434.6	235.0	120.0		789.6
P	PAINT WORK		5.7	87.5	67.8	161.0
PE	PROGRAM ENGR	120.0	121.6	125.0	88.5	455.0
PF	PIPE FITTING	10.5	30.5	466.3	357.1	864.4
PG	PROJECT MGMT	497.3	500.7	495.3	264.2	1757.6
PROCURE	PROC DOLLARS-CENRTC					
QE	QUALITY ENGR	180.0	264.7	272.1	186.2	903.0
SC	SCIENT CHEMIST	695.5	549.8	508.4	387.7	2141.5
SM	SHEET METAL WORKER	5.0	5.7	82.6	89.7	183.0
TC	CHEM TECH	564.3	436.1	465.1	408.0	1873.5
	REPORT TOTAL	12768.3	10375.4	11820.6	7882.8	42847.1

## 6.11 WBS Level 3 Resources

**Note: Project resource reports do not include procurements or expenses. Figures are in ManDays.**

REPORT DATE 13APR95 RUN NO. 703  
12:00

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.1 QUALITY ASSURANCE - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	5.08	5.08	.00	.00	.00	.00
1NOV94	0	0	4.84	9.92	.00	.00	.00	.00
1DEC94	0	0	4.60	14.52	.00	.00	.00	.00
1JAN95	0	0	4.84	19.35	.00	.00	.00	.00
1FEB95	0	0	4.60	23.95	.00	.00	.00	.00
1MAR95	0	0	5.56	29.52	.00	.00	.00	.00
1APR95	0	0	4.60	34.11	.00	.00	.00	.00
1MAY95	0	0	5.32	39.44	.00	.00	.00	.00
1JUN95	0	0	5.32	44.76	.00	.00	.00	.00
1JUL95	0	0	4.84	49.60	.00	.00	.00	.00
1AUG95	0	0	5.56	55.16	.00	.00	.00	.00
1SEP95	0	0	4.84	60.00	.00	.00	.00	.00
1OCT95	0	0	5.37	65.37	.00	.00	.00	.00
1NOV95	0	0	4.88	70.25	.00	.00	.00	.00
1DEC95	0	0	4.64	74.89	.00	.00	.00	.00
1JAN96	0	0	4.88	79.77	.00	.00	.00	.00
1FEB96	0	0	4.88	84.65	.00	.00	.00	.00
1MAR96	0	0	5.13	89.78	.00	.00	.00	.00
1APR96	0	0	5.13	94.91	.00	.00	.00	.00
1MAY96	0	0	5.37	100.28	.00	.00	.00	.00
1JUN96	0	0	4.88	105.16	.00	.00	.00	.00
1JUL96	0	0	5.37	110.53	.00	.00	.00	.00
1AUG96	0	0	5.37	115.90	.00	.00	.00	.00
1SEP96	0	0	4.88	120.78	.00	.00	.00	.00
1OCT96	0	0	5.61	126.39	.00	.00	.00	.00
1NOV96	0	0	4.64	131.03	.00	.00	.00	.00
1DEC96	0	0	4.64	135.67	.00	.00	.00	.00
1JAN97	0	0	5.61	141.28	.00	.00	.00	.00
1FEB97	0	0	4.88	146.17	.00	.00	.00	.00
1MAR97	0	0	5.13	151.29	.00	.00	.00	.00
1APR97	0	0	5.37	156.66	.00	.00	.00	.00
1MAY97	0	0	5.37	162.03	.00	.00	.00	.00
1JUN97	0	0	5.13	167.16	.00	.00	.00	.00
1JUL97	0	0	5.61	172.77	.00	.00	.00	.00
1AUG97	0	0	5.13	177.90	.00	.00	.00	.00
1SEP97	0	0	5.37	183.27	.00	.00	.00	.00
1OCT97	0	0	5.61	188.88	.00	.00	.00	.00
1NOV97	0	0	4.88	193.76	.00	.00	.00	.00
1DEC97	0	0	5.61	199.38	.00	.00	.00	.00
1JAN98	0	0	5.37	204.75	.00	.00	.00	.00
1FEB98	0	0	4.88	209.63	.00	.00	.00	.00
1MAR98	0	0	5.37	215.00	.00	.00	.00	.00
1APR98	0	0	3.36	218.36	.00	.00	.00	.00
1MAY98	0	0	3.21	221.56	.00	.00	.00	.00
1JUN98	0	0	3.36	224.92	.00	.00	.00	.00
1JUL98	0	0	3.51	228.44	.00	.00	.00	.00
1AUG98	0	0	3.21	231.64	.00	.00	.00	.00
1SEP98	0	0	3.36	235.00	.00	.00	.00	.00
1OCT98	0	0	.00	235.00	.00	.00	.00	.00
1NOV98	0	0	.00	235.00	.00	.00	.00	.00
1DEC98	0	0	.00	235.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 707  
12:06

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.1 QUALITY ASSURANCE - OPEX RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	5.08	5.08	.00	.00	.00	.00
1NOV94	0	0	4.84	9.92	.00	.00	.00	.00
1DEC94	0	0	4.60	14.52	.00	.00	.00	.00
1JAN95	0	0	4.84	19.35	.00	.00	.00	.00
1FEB95	0	0	4.60	23.95	.00	.00	.00	.00
1MAR95	0	0	5.56	29.52	.00	.00	.00	.00
1APR95	0	0	4.60	34.11	.00	.00	.00	.00
1MAY95	0	0	5.32	39.44	.00	.00	.00	.00
1JUN95	0	0	5.32	44.76	.00	.00	.00	.00
1JUL95	0	0	4.84	49.60	.00	.00	.00	.00
1AUG95	0	0	5.56	55.16	.00	.00	.00	.00
1SEP95	0	0	4.84	60.00	.00	.00	.00	.00
1OCT95	0	0	5.37	65.37	.00	.00	.00	.00
1NOV95	0	0	4.88	70.25	.00	.00	.00	.00
1DEC95	0	0	4.64	74.89	.00	.00	.00	.00
1JAN96	0	0	4.88	79.77	.00	.00	.00	.00
1FEB96	0	0	4.88	84.65	.00	.00	.00	.00
1MAR96	0	0	5.13	89.78	.00	.00	.00	.00
1APR96	0	0	5.13	94.91	.00	.00	.00	.00
1MAY96	0	0	5.37	100.28	.00	.00	.00	.00
1JUN96	0	0	4.88	105.16	.00	.00	.00	.00
1JUL96	0	0	5.37	110.53	.00	.00	.00	.00
1AUG96	0	0	5.37	115.90	.00	.00	.00	.00
1SEP96	0	0	4.88	120.78	.00	.00	.00	.00
1OCT96	0	0	5.61	126.39	.00	.00	.00	.00
1NOV96	0	0	4.64	131.03	.00	.00	.00	.00
1DEC96	0	0	4.64	135.67	.00	.00	.00	.00
1JAN97	0	0	5.61	141.28	.00	.00	.00	.00
1FEB97	0	0	4.88	146.17	.00	.00	.00	.00
1MAR97	0	0	5.13	151.29	.00	.00	.00	.00
1APR97	0	0	5.37	156.66	.00	.00	.00	.00
1MAY97	0	0	5.37	162.03	.00	.00	.00	.00
1JUN97	0	0	5.13	167.16	.00	.00	.00	.00
1JUL97	0	0	5.61	172.77	.00	.00	.00	.00
1AUG97	0	0	5.13	177.90	.00	.00	.00	.00
1SEP97	0	0	5.37	183.27	.00	.00	.00	.00
1OCT97	0	0	5.61	188.88	.00	.00	.00	.00
1NOV97	0	0	4.88	193.76	.00	.00	.00	.00
1DEC97	0	0	5.61	199.38	.00	.00	.00	.00
1JAN98	0	0	5.37	204.75	.00	.00	.00	.00
1FEB98	0	0	4.88	209.63	.00	.00	.00	.00
1MAR98	0	0	5.37	215.00	.00	.00	.00	.00
1APR98	0	0	3.36	218.36	.00	.00	.00	.00
1MAY98	0	0	3.21	221.56	.00	.00	.00	.00
1JUN98	0	0	3.36	224.92	.00	.00	.00	.00
1JUL98	0	0	3.51	228.44	.00	.00	.00	.00
1AUG98	0	0	3.21	231.64	.00	.00	.00	.00
1SEP98	0	0	3.36	235.00	.00	.00	.00	.00
1OCT98	0	0	.00	235.00	.00	.00	.00	.00
1NOV98	0	0	.00	235.00	.00	.00	.00	.00
1DEC98	0	0	.00	235.00	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	1.84	1.84	.00	.00	.00	.00
1NOV94	0	0	1.75	3.59	.00	.00	.00	.00
1DEC94	0	0	1.66	5.26	.00	.00	.00	.00
1JAN95	0	0	1.75	7.01	.00	.00	.00	.00
1FEB95	0	0	1.66	8.67	.00	.00	.00	.00
1MAR95	0	0	2.02	10.69	.00	.00	.00	.00
1APR95	0	0	1.66	12.35	.00	.00	.00	.00
1MAY95	0	0	1.93	14.28	.00	.00	.00	.00
1JUN95	0	0	1.93	16.21	.00	.00	.00	.00
1JUL95	0	0	1.75	17.96	.00	.00	.00	.00
1AUG95	0	0	2.02	19.98	.00	.00	.00	.00
1SEP95	0	0	1.75	21.73	.00	.00	.00	.00
1OCT95	0	0	.00	21.73	.00	.00	.00	.00
1NOV95	0	0	.00	21.73	.00	.00	.00	.00
1DEC95	0	0	.00	21.73	.00	.00	.00	.00
1JAN96	0	0	.00	21.73	.00	.00	.00	.00
1FEB96	0	0	.00	21.73	.00	.00	.00	.00
1MAR96	0	0	.00	21.73	.00	.00	.00	.00
1APR96	0	0	.00	21.73	.00	.00	.00	.00
1MAY96	0	0	.00	21.73	.00	.00	.00	.00
1JUN96	0	0	.00	21.73	.00	.00	.00	.00
1JUL96	0	0	.00	21.73	.00	.00	.00	.00
1AUG96	0	0	.00	21.73	.00	.00	.00	.00
1SEP96	0	0	.00	21.73	.00	.00	.00	.00
1OCT96	0	0	.00	21.73	.00	.00	.00	.00
1NOV96	0	0	.00	21.73	.00	.00	.00	.00
1DEC96	0	0	.00	21.73	.00	.00	.00	.00
1JAN97	0	0	.00	21.73	.00	.00	.00	.00
1FEB97	0	0	.00	21.73	.00	.00	.00	.00
1MAR97	0	0	.00	21.73	.00	.00	.00	.00
1APR97	0	0	.00	21.73	.00	.00	.00	.00
1MAY97	0	0	.00	21.73	.00	.00	.00	.00
1JUN97	0	0	.00	21.73	.00	.00	.00	.00
1JUL97	0	0	.00	21.73	.00	.00	.00	.00
1AUG97	0	0	.00	21.73	.00	.00	.00	.00
1SEP97	0	0	.00	21.73	.00	.00	.00	.00
1OCT97	0	0	.00	21.73	.00	.00	.00	.00
1NOV97	0	0	.00	21.73	.00	.00	.00	.00
1DEC97	0	0	.00	21.73	.00	.00	.00	.00
1JAN98	0	0	.00	21.73	.00	.00	.00	.00
1FEB98	0	0	.00	21.73	.00	.00	.00	.00
1MAR98	0	0	.00	21.73	.00	.00	.00	.00
1APR98	0	0	.00	21.73	.00	.00	.00	.00
1MAY98	0	0	.00	21.73	.00	.00	.00	.00
1JUN98	0	0	.00	21.73	.00	.00	.00	.00
1JUL98	0	0	.00	21.73	.00	.00	.00	.00
1AUG98	0	0	.00	21.73	.00	.00	.00	.00
1SEP98	0	0	.00	21.73	.00	.00	.00	.00
1OCT98	0	0	.00	21.73	.00	.00	.00	.00
1NOV98	0	0	.00	21.73	.00	.00	.00	.00
1DEC98	0	0	.00	21.73	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 706  
12:04

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.2 PSAR - CENRTC RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ???????????? -								
***DATA DATE***								
1OCT94	0	0	1.84	1.84	.00	.00	.00	.00
1NOV94	0	0	1.75	3.59	.00	.00	.00	.00
1DEC94	0	0	1.66	5.26	.00	.00	.00	.00
1JAN95	0	0	1.75	7.01	.00	.00	.00	.00
1FEB95	0	0	1.66	8.67	.00	.00	.00	.00
1MAR95	0	0	2.02	10.69	.00	.00	.00	.00
1APR95	0	0	1.66	12.35	.00	.00	.00	.00
1MAY95	0	0	1.93	14.28	.00	.00	.00	.00
1JUN95	0	0	1.93	16.21	.00	.00	.00	.00
1JUL95	0	0	1.75	17.96	.00	.00	.00	.00
1AUG95	0	0	2.02	19.98	.00	.00	.00	.00
1SEP95	0	0	1.75	21.73	.00	.00	.00	.00
1OCT95	0	0	.00	21.73	.00	.00	.00	.00
1NOV95	0	0	.00	21.73	.00	.00	.00	.00
1DEC95	0	0	.00	21.73	.00	.00	.00	.00
1JAN96	0	0	.00	21.73	.00	.00	.00	.00
1FEB96	0	0	.00	21.73	.00	.00	.00	.00
1MAR96	0	0	.00	21.73	.00	.00	.00	.00
1APR96	0	0	.00	21.73	.00	.00	.00	.00
1MAY96	0	0	.00	21.73	.00	.00	.00	.00
1JUN96	0	0	.00	21.73	.00	.00	.00	.00
1JUL96	0	0	.00	21.73	.00	.00	.00	.00
1AUG96	0	0	.00	21.73	.00	.00	.00	.00
1SEP96	0	0	.00	21.73	.00	.00	.00	.00
1OCT96	0	0	.00	21.73	.00	.00	.00	.00
1NOV96	0	0	.00	21.73	.00	.00	.00	.00
1DEC96	0	0	.00	21.73	.00	.00	.00	.00
1JAN97	0	0	.00	21.73	.00	.00	.00	.00
1FEB97	0	0	.00	21.73	.00	.00	.00	.00
1MAR97	0	0	.00	21.73	.00	.00	.00	.00
1APR97	0	0	.00	21.73	.00	.00	.00	.00
1MAY97	0	0	.00	21.73	.00	.00	.00	.00
1JUN97	0	0	.00	21.73	.00	.00	.00	.00
1JUL97	0	0	.00	21.73	.00	.00	.00	.00
1AUG97	0	0	.00	21.73	.00	.00	.00	.00
1SEP97	0	0	.00	21.73	.00	.00	.00	.00
1OCT97	0	0	.00	21.73	.00	.00	.00	.00
1NOV97	0	0	.00	21.73	.00	.00	.00	.00
1DEC97	0	0	.00	21.73	.00	.00	.00	.00
1JAN98	0	0	.00	21.73	.00	.00	.00	.00
1FEB98	0	0	.00	21.73	.00	.00	.00	.00
1MAR98	0	0	.00	21.73	.00	.00	.00	.00
1APR98	0	0	.00	21.73	.00	.00	.00	.00
1MAY98	0	0	.00	21.73	.00	.00	.00	.00
1JUN98	0	0	.00	21.73	.00	.00	.00	.00
1JUL98	0	0	.00	21.73	.00	.00	.00	.00
1AUG98	0	0	.00	21.73	.00	.00	.00	.00
1SEP98	0	0	.00	21.73	.00	.00	.00	.00
1OCT98	0	0	.00	21.73	.00	.00	.00	.00
1NOV98	0	0	.00	21.73	.00	.00	.00	.00
1DEC98	0	0	.00	21.73	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 708  
12:07

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.3 NEPA / CEQA - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	44.99	44.99	.00	.00	.00	.00
1NOV94	0	0	42.85	87.84	.00	.00	.00	.00
1DEC94	0	0	40.71	128.55	.00	.00	.00	.00
1JAN95	0	0	42.85	171.40	.00	.00	.00	.00
1FEB95	0	0	40.71	212.10	.00	.00	.00	.00
1MAR95	0	0	49.28	261.38	.00	.00	.00	.00
1APR95	0	0	40.71	302.09	.00	.00	.00	.00
1MAY95	0	0	47.13	349.22	.00	.00	.00	.00
1JUN95	0	0	47.13	396.36	.00	.00	.00	.00
1JUL95	0	0	42.85	439.20	.00	.00	.00	.00
1AUG95	0	0	49.28	488.48	.00	.00	.00	.00
1SEP95	0	0	42.85	531.33	.00	.00	.00	.00
1OCT95	0	0	23.41	554.74	.00	.00	.00	.00
1NOV95	0	0	21.29	576.03	.00	.00	.00	.00
1DEC95	0	0	20.22	596.25	.00	.00	.00	.00
1JAN96	0	0	21.29	617.53	.00	.00	.00	.00
1FEB96	0	0	21.29	638.82	.00	.00	.00	.00
1MAR96	0	0	22.35	661.17	.00	.00	.00	.00
1APR96	0	0	22.35	683.52	.00	.00	.00	.00
1MAY96	0	0	23.41	706.93	.00	.00	.00	.00
1JUN96	0	0	21.29	728.22	.00	.00	.00	.00
1JUL96	0	0	23.41	751.63	.00	.00	.00	.00
1AUG96	0	0	23.41	775.04	.00	.00	.00	.00
1SEP96	0	0	21.29	796.33	.00	.00	.00	.00
1OCT96	0	0	10.78	807.11	.00	.00	.00	.00
1NOV96	0	0	8.91	816.02	.00	.00	.00	.00
1DEC96	0	0	8.91	824.92	.00	.00	.00	.00
1JAN97	0	0	10.78	835.71	.00	.00	.00	.00
1FEB97	0	0	9.38	845.08	.00	.00	.00	.00
1MAR97	0	0	9.84	854.92	.00	.00	.00	.00
1APR97	0	0	10.31	865.24	.00	.00	.00	.00
1MAY97	0	0	10.31	875.55	.00	.00	.00	.00
1JUN97	0	0	9.84	885.39	.00	.00	.00	.00
1JUL97	0	0	10.78	896.17	.00	.00	.00	.00
1AUG97	0	0	9.84	906.02	.00	.00	.00	.00
1SEP97	0	0	10.31	916.33	.00	.00	.00	.00
1OCT97	0	0	.00	916.33	.00	.00	.00	.00
1NOV97	0	0	.00	916.33	.00	.00	.00	.00
1DEC97	0	0	.00	916.33	.00	.00	.00	.00
1JAN98	0	0	.00	916.33	.00	.00	.00	.00
1FEB98	0	0	.00	916.33	.00	.00	.00	.00
1MAR98	0	0	.00	916.33	.00	.00	.00	.00
1APR98	0	0	.00	916.33	.00	.00	.00	.00
1MAY98	0	0	.00	916.33	.00	.00	.00	.00
1JUN98	0	0	.00	916.33	.00	.00	.00	.00
1JUL98	0	0	.00	916.33	.00	.00	.00	.00
1AUG98	0	0	.00	916.33	.00	.00	.00	.00
1SEP98	0	0	.00	916.33	.00	.00	.00	.00
1OCT98	0	0	.00	916.33	.00	.00	.00	.00
1NOV98	0	0	.00	916.33	.00	.00	.00	.00
1DEC98	0	0	.00	916.33	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 709  
12:08

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.3 NEPA / CEQA - OPEX RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	3.68	3.68	.00	.00	.00	.00
1NOV94	0	0	3.50	7.18	.00	.00	.00	.00
1DEC94	0	0	3.33	10.51	.00	.00	.00	.00
1JAN95	0	0	3.50	14.02	.00	.00	.00	.00
1FEB95	0	0	3.33	17.35	.00	.00	.00	.00
1MAR95	0	0	4.03	21.38	.00	.00	.00	.00
1APR95	0	0	3.33	24.71	.00	.00	.00	.00
1MAY95	0	0	3.86	28.56	.00	.00	.00	.00
1JUN95	0	0	3.86	32.42	.00	.00	.00	.00
1JUL95	0	0	3.50	35.92	.00	.00	.00	.00
1AUG95	0	0	4.03	39.96	.00	.00	.00	.00
1SEP95	0	0	3.50	43.46	.00	.00	.00	.00
1OCT95	0	0	.00	43.46	.00	.00	.00	.00
1NOV95	0	0	.00	43.46	.00	.00	.00	.00
1DEC95	0	0	.00	43.46	.00	.00	.00	.00
1JAN96	0	0	.00	43.46	.00	.00	.00	.00
1FEB96	0	0	.00	43.46	.00	.00	.00	.00
1MAR96	0	0	.00	43.46	.00	.00	.00	.00
1APR96	0	0	.00	43.46	.00	.00	.00	.00
1MAY96	0	0	.00	43.46	.00	.00	.00	.00
1JUN96	0	0	.00	43.46	.00	.00	.00	.00
1JUL96	0	0	.00	43.46	.00	.00	.00	.00
1AUG96	0	0	.00	43.46	.00	.00	.00	.00
1SEP96	0	0	.00	43.46	.00	.00	.00	.00
1OCT96	0	0	.00	43.46	.00	.00	.00	.00
1NOV96	0	0	.00	43.46	.00	.00	.00	.00
1DEC96	0	0	.00	43.46	.00	.00	.00	.00
1JAN97	0	0	.00	43.46	.00	.00	.00	.00
1FEB97	0	0	.00	43.46	.00	.00	.00	.00
1MAR97	0	0	.00	43.46	.00	.00	.00	.00
1APR97	0	0	.00	43.46	.00	.00	.00	.00
1MAY97	0	0	.00	43.46	.00	.00	.00	.00
1JUN97	0	0	.00	43.46	.00	.00	.00	.00
1JUL97	0	0	.00	43.46	.00	.00	.00	.00
1AUG97	0	0	.00	43.46	.00	.00	.00	.00
1SEP97	0	0	.00	43.46	.00	.00	.00	.00
1OCT97	0	0	.00	43.46	.00	.00	.00	.00
1NOV97	0	0	.00	43.46	.00	.00	.00	.00
1DEC97	0	0	.00	43.46	.00	.00	.00	.00
1JAN98	0	0	.00	43.46	.00	.00	.00	.00
1FEB98	0	0	.00	43.46	.00	.00	.00	.00
1MAR98	0	0	.00	43.46	.00	.00	.00	.00
1APR98	0	0	.00	43.46	.00	.00	.00	.00
1MAY98	0	0	.00	43.46	.00	.00	.00	.00
1JUN98	0	0	.00	43.46	.00	.00	.00	.00
1JUL98	0	0	.00	43.46	.00	.00	.00	.00
1AUG98	0	0	.00	43.46	.00	.00	.00	.00
1SEP98	0	0	.00	43.46	.00	.00	.00	.00
1OCT98	0	0	.00	43.46	.00	.00	.00	.00
1NOV98	0	0	.00	43.46	.00	.00	.00	.00
1DEC98	0	0	.00	43.46	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 710  
12:09

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.3 NEPA / CEQA - CENRTC RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	41.31	41.31	.00	.00	.00	.00
1NOV94	0	0	39.34	80.66	.00	.00	.00	.00
1DEC94	0	0	37.38	118.03	.00	.00	.00	.00
1JAN95	0	0	39.34	157.38	.00	.00	.00	.00
1FEB95	0	0	37.38	194.75	.00	.00	.00	.00
1MAR95	0	0	45.25	240.00	.00	.00	.00	.00
1APR95	0	0	37.38	277.38	.00	.00	.00	.00
1MAY95	0	0	43.28	320.66	.00	.00	.00	.00
1JUN95	0	0	43.28	363.94	.00	.00	.00	.00
1JUL95	0	0	39.34	403.28	.00	.00	.00	.00
1AUG95	0	0	45.25	448.53	.00	.00	.00	.00
1SEP95	0	0	39.34	487.87	.00	.00	.00	.00
1OCT95	0	0	23.41	511.28	.00	.00	.00	.00
1NOV95	0	0	21.29	532.57	.00	.00	.00	.00
1DEC95	0	0	20.22	552.79	.00	.00	.00	.00
1JAN96	0	0	21.29	574.07	.00	.00	.00	.00
1FEB96	0	0	21.29	595.36	.00	.00	.00	.00
1MAR96	0	0	22.35	617.71	.00	.00	.00	.00
1APR96	0	0	22.35	640.06	.00	.00	.00	.00
1MAY96	0	0	23.41	663.47	.00	.00	.00	.00
1JUN96	0	0	21.29	684.76	.00	.00	.00	.00
1JUL96	0	0	23.41	708.17	.00	.00	.00	.00
1AUG96	0	0	23.41	731.58	.00	.00	.00	.00
1SEP96	0	0	21.29	752.87	.00	.00	.00	.00
1OCT96	0	0	10.78	763.65	.00	.00	.00	.00
1NOV96	0	0	8.91	772.56	.00	.00	.00	.00
1DEC96	0	0	8.91	781.46	.00	.00	.00	.00
1JAN97	0	0	10.78	792.25	.00	.00	.00	.00
1FEB97	0	0	9.38	801.62	.00	.00	.00	.00
1MAR97	0	0	9.84	811.46	.00	.00	.00	.00
1APR97	0	0	10.31	821.78	.00	.00	.00	.00
1MAY97	0	0	10.31	832.09	.00	.00	.00	.00
1JUN97	0	0	9.84	841.93	.00	.00	.00	.00
1JUL97	0	0	10.78	852.71	.00	.00	.00	.00
1AUG97	0	0	9.84	862.56	.00	.00	.00	.00
1SEP97	0	0	10.31	872.87	.00	.00	.00	.00
1OCT97	0	0	.00	872.87	.00	.00	.00	.00
1NOV97	0	0	.00	872.87	.00	.00	.00	.00
1DEC97	0	0	.00	872.87	.00	.00	.00	.00
1JAN98	0	0	.00	872.87	.00	.00	.00	.00
1FEB98	0	0	.00	872.87	.00	.00	.00	.00
1MAR98	0	0	.00	872.87	.00	.00	.00	.00
1APR98	0	0	.00	872.87	.00	.00	.00	.00
1MAY98	0	0	.00	872.87	.00	.00	.00	.00
1JUN98	0	0	.00	872.87	.00	.00	.00	.00
1JUL98	0	0	.00	872.87	.00	.00	.00	.00
1AUG98	0	0	.00	872.87	.00	.00	.00	.00
1SEP98	0	0	.00	872.87	.00	.00	.00	.00
1OCT98	0	0	.00	872.87	.00	.00	.00	.00
1NOV98	0	0	.00	872.87	.00	.00	.00	.00
1DEC98	0	0	.00	872.87	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????								
***DATA DATE***								
1OCT94	0	0	21.17	21.17	.00	.00	.00	.00
1NOV94	0	0	20.16	41.33	.00	.00	.00	.00
1DEC94	0	0	19.15	60.48	.00	.00	.00	.00
1JAN95	0	0	20.16	80.65	.00	.00	.00	.00
1FEB95	0	0	19.15	99.80	.00	.00	.00	.00
1MAR95	0	0	23.19	122.98	.00	.00	.00	.00
1APR95	0	0	19.15	142.14	.00	.00	.00	.00
1MAY95	0	0	22.18	164.31	.00	.00	.00	.00
1JUN95	0	0	22.18	186.49	.00	.00	.00	.00
1JUL95	0	0	20.16	206.65	.00	.00	.00	.00
1AUG95	0	0	23.19	229.84	.00	.00	.00	.00
1SEP95	0	0	20.16	250.00	.00	.00	.00	.00
1OCT95	0	0	20.76	270.76	.00	.00	.00	.00
1NOV95	0	0	18.88	289.64	.00	.00	.00	.00
1DEC95	0	0	17.93	307.57	.00	.00	.00	.00
1JAN96	0	0	18.88	326.45	.00	.00	.00	.00
1FEB96	0	0	18.88	345.32	.00	.00	.00	.00
1MAR96	0	0	19.82	365.14	.00	.00	.00	.00
1APR96	0	0	19.82	384.96	.00	.00	.00	.00
1MAY96	0	0	20.76	405.72	.00	.00	.00	.00
1JUN96	0	0	18.88	424.60	.00	.00	.00	.00
1JUL96	0	0	20.76	445.36	.00	.00	.00	.00
1AUG96	0	0	20.76	466.12	.00	.00	.00	.00
1SEP96	0	0	18.88	485.00	.00	.00	.00	.00
1OCT96	0	0	21.11	506.11	.00	.00	.00	.00
1NOV96	0	0	17.44	523.55	.00	.00	.00	.00
1DEC96	0	0	17.44	541.00	.00	.00	.00	.00
1JAN97	0	0	21.11	562.11	.00	.00	.00	.00
1FEB97	0	0	18.36	580.47	.00	.00	.00	.00
1MAR97	0	0	19.28	599.75	.00	.00	.00	.00
1APR97	0	0	20.20	619.94	.00	.00	.00	.00
1MAY97	0	0	20.20	640.14	.00	.00	.00	.00
1JUN97	0	0	19.28	659.41	.00	.00	.00	.00
1JUL97	0	0	21.11	680.53	.00	.00	.00	.00
1AUG97	0	0	19.28	699.80	.00	.00	.00	.00
1SEP97	0	0	20.20	720.00	.00	.00	.00	.00
1OCT97	0	0	26.00	746.00	.00	.00	.00	.00
1NOV97	0	0	22.61	768.60	.00	.00	.00	.00
1DEC97	0	0	26.00	794.60	.00	.00	.00	.00
1JAN98	0	0	24.87	819.46	.00	.00	.00	.00
1FEB98	0	0	22.61	842.07	.00	.00	.00	.00
1MAR98	0	0	24.87	866.93	.00	.00	.00	.00
1APR98	0	0	24.87	891.80	.00	.00	.00	.00
1MAY98	0	0	23.74	915.54	.00	.00	.00	.00
1JUN98	0	0	24.87	940.40	.00	.00	.00	.00
1JUL98	0	0	26.00	966.40	.00	.00	.00	.00
1AUG98	0	0	23.74	990.13	.00	.00	.00	.00
1SEP98	0	0	24.87	1015.00	.00	.00	.00	.00
1OCT98	0	0	.00	1015.00	.00	.00	.00	.00
1NOV98	0	0	.00	1015.00	.00	.00	.00	.00
1DEC98	0	0	.00	1015.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 712  
12:11

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.4 ES&H - OPEX RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	21.17	21.17	.00	.00	.00	.00
1NOV94	0	0	20.16	41.33	.00	.00	.00	.00
1DEC94	0	0	19.15	60.48	.00	.00	.00	.00
1JAN95	0	0	20.16	80.65	.00	.00	.00	.00
1FEB95	0	0	19.15	99.80	.00	.00	.00	.00
1MAR95	0	0	23.19	122.98	.00	.00	.00	.00
1APR95	0	0	19.15	142.14	.00	.00	.00	.00
1MAY95	0	0	22.18	164.31	.00	.00	.00	.00
1JUN95	0	0	22.18	186.49	.00	.00	.00	.00
1JUL95	0	0	20.16	206.65	.00	.00	.00	.00
1AUG95	0	0	23.19	229.84	.00	.00	.00	.00
1SEP95	0	0	20.16	250.00	.00	.00	.00	.00
1OCT95	0	0	20.76	270.76	.00	.00	.00	.00
1NOV95	0	0	18.88	289.64	.00	.00	.00	.00
1DEC95	0	0	17.93	307.57	.00	.00	.00	.00
1JAN96	0	0	18.88	326.45	.00	.00	.00	.00
1FEB96	0	0	18.88	345.32	.00	.00	.00	.00
1MAR96	0	0	19.82	365.14	.00	.00	.00	.00
1APR96	0	0	19.82	384.96	.00	.00	.00	.00
1MAY96	0	0	20.76	405.72	.00	.00	.00	.00
1JUN96	0	0	18.88	424.60	.00	.00	.00	.00
1JUL96	0	0	20.76	445.36	.00	.00	.00	.00
1AUG96	0	0	20.76	466.12	.00	.00	.00	.00
1SEP96	0	0	18.88	485.00	.00	.00	.00	.00
1OCT96	0	0	21.11	506.11	.00	.00	.00	.00
1NOV96	0	0	17.44	523.55	.00	.00	.00	.00
1DEC96	0	0	17.44	541.00	.00	.00	.00	.00
1JAN97	0	0	21.11	562.11	.00	.00	.00	.00
1FEB97	0	0	18.36	580.47	.00	.00	.00	.00
1MAR97	0	0	19.28	599.75	.00	.00	.00	.00
1APR97	0	0	20.20	619.94	.00	.00	.00	.00
1MAY97	0	0	20.20	640.14	.00	.00	.00	.00
1JUN97	0	0	19.28	659.41	.00	.00	.00	.00
1JUL97	0	0	21.11	680.53	.00	.00	.00	.00
1AUG97	0	0	19.28	699.80	.00	.00	.00	.00
1SEP97	0	0	20.20	720.00	.00	.00	.00	.00
1OCT97	0	0	26.00	746.00	.00	.00	.00	.00
1NOV97	0	0	22.61	768.60	.00	.00	.00	.00
1DEC97	0	0	26.00	794.60	.00	.00	.00	.00
1JAN98	0	0	24.87	819.46	.00	.00	.00	.00
1FEB98	0	0	22.61	842.07	.00	.00	.00	.00
1MAR98	0	0	24.87	866.93	.00	.00	.00	.00
1APR98	0	0	24.87	891.80	.00	.00	.00	.00
1MAY98	0	0	23.74	915.54	.00	.00	.00	.00
1JUN98	0	0	24.87	940.40	.00	.00	.00	.00
1JUL98	0	0	26.00	966.40	.00	.00	.00	.00
1AUG98	0	0	23.74	990.13	.00	.00	.00	.00
1SEP98	0	0	24.87	1015.00	.00	.00	.00	.00
1OCT98	0	0	.00	1015.00	.00	.00	.00	.00
1NOV98	0	0	.00	1015.00	.00	.00	.00	.00
1DEC98	0	0	.00	1015.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 713  
12:12

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.1.5 PROGRAM SUPPORT - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????								
***DATA DATE***								
1OCT94	0	0	24.15	24.15	.00	.00	.00	.00
1NOV94	0	0	23.00	47.15	.00	.00	.00	.00
1DEC94	0	0	21.85	69.00	.00	.00	.00	.00
1JAN95	0	0	23.00	92.00	.00	.00	.00	.00
1FEB95	0	0	21.85	113.85	.00	.00	.00	.00
1MAR95	0	0	26.45	140.30	.00	.00	.00	.00
1APR95	0	0	21.85	162.15	.00	.00	.00	.00
1MAY95	0	0	25.30	187.45	.00	.00	.00	.00
1JUN95	0	0	25.30	212.75	.00	.00	.00	.00
1JUL95	0	0	23.00	235.75	.00	.00	.00	.00
1AUG95	0	0	26.45	262.20	.00	.00	.00	.00
1SEP95	0	0	23.00	285.20	.00	.00	.00	.00
1OCT95	0	0	25.30	310.50	.00	.00	.00	.00
1NOV95	0	0	23.00	333.50	.00	.00	.00	.00
1DEC95	0	0	21.85	355.35	.00	.00	.00	.00
1JAN96	0	0	23.00	378.35	.00	.00	.00	.00
1FEB96	0	0	23.00	401.35	.00	.00	.00	.00
1MAR96	0	0	24.15	425.50	.00	.00	.00	.00
1APR96	0	0	24.15	449.65	.00	.00	.00	.00
1MAY96	0	0	25.30	474.95	.00	.00	.00	.00
1JUN96	0	0	23.00	497.95	.00	.00	.00	.00
1JUL96	0	0	25.30	523.25	.00	.00	.00	.00
1AUG96	0	0	25.30	548.55	.00	.00	.00	.00
1SEP96	0	0	23.00	571.55	.00	.00	.00	.00
1OCT96	0	0	26.45	598.00	.00	.00	.00	.00
1NOV96	0	0	21.85	619.85	.00	.00	.00	.00
1DEC96	0	0	21.85	641.70	.00	.00	.00	.00
1JAN97	0	0	26.45	668.15	.00	.00	.00	.00
1FEB97	0	0	23.00	691.15	.00	.00	.00	.00
1MAR97	0	0	24.15	715.30	.00	.00	.00	.00
1APR97	0	0	56.10	771.40	.00	.00	.00	.00
1MAY97	0	0	56.10	827.50	.00	.00	.00	.00
1JUN97	0	0	53.55	881.05	.00	.00	.00	.00
1JUL97	0	0	58.65	939.70	.00	.00	.00	.00
1AUG97	0	0	53.55	993.25	.00	.00	.00	.00
1SEP97	0	0	56.10	1049.35	.00	.00	.00	.00
1OCT97	0	0	34.28	1083.63	.00	.00	.00	.00
1NOV97	0	0	25.81	1109.44	.00	.00	.00	.00
1DEC97	0	0	29.68	1139.12	.00	.00	.00	.00
1JAN98	0	0	28.39	1167.50	.00	.00	.00	.00
1FEB98	0	0	25.81	1193.31	.00	.00	.00	.00
1MAR98	0	0	28.39	1221.70	.00	.00	.00	.00
1APR98	0	0	14.63	1236.33	.00	.00	.00	.00
1MAY98	0	0	13.96	1250.29	.00	.00	.00	.00
1JUN98	0	0	14.63	1264.92	.00	.00	.00	.00
1JUL98	0	0	15.29	1280.21	.00	.00	.00	.00
1AUG98	0	0	13.96	1294.17	.00	.00	.00	.00
1SEP98	0	0	14.63	1308.80	.00	.00	.00	.00
1OCT98	0	0	.00	1308.80	.00	.00	.00	.00
1NOV98	0	0	.00	1308.80	.00	.00	.00	.00
1DEC98	0	0	.00	1308.80	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 714  
12:13

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.5 PROGRAM SUPPORT - OPEX RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	24.15	24.15	.00	.00	.00	.00
1NOV94	0	0	23.00	47.15	.00	.00	.00	.00
1DEC94	0	0	21.85	69.00	.00	.00	.00	.00
1JAN95	0	0	23.00	92.00	.00	.00	.00	.00
1FEB95	0	0	21.85	113.85	.00	.00	.00	.00
1MAR95	0	0	26.45	140.30	.00	.00	.00	.00
1APR95	0	0	21.85	162.15	.00	.00	.00	.00
1MAY95	0	0	25.30	187.45	.00	.00	.00	.00
1JUN95	0	0	25.30	212.75	.00	.00	.00	.00
1JUL95	0	0	23.00	235.75	.00	.00	.00	.00
1AUG95	0	0	26.45	262.20	.00	.00	.00	.00
1SEP95	0	0	23.00	285.20	.00	.00	.00	.00
1OCT95	0	0	25.30	310.50	.00	.00	.00	.00
1NOV95	0	0	23.00	333.50	.00	.00	.00	.00
1DEC95	0	0	21.85	355.35	.00	.00	.00	.00
1JAN96	0	0	23.00	378.35	.00	.00	.00	.00
1FEB96	0	0	23.00	401.35	.00	.00	.00	.00
1MAR96	0	0	24.15	425.50	.00	.00	.00	.00
1APR96	0	0	24.15	449.65	.00	.00	.00	.00
1MAY96	0	0	25.30	474.95	.00	.00	.00	.00
1JUN96	0	0	23.00	497.95	.00	.00	.00	.00
1JUL96	0	0	25.30	523.25	.00	.00	.00	.00
1AUG96	0	0	25.30	548.55	.00	.00	.00	.00
1SEP96	0	0	23.00	571.55	.00	.00	.00	.00
1OCT96	0	0	26.45	598.00	.00	.00	.00	.00
1NOV96	0	0	21.85	619.85	.00	.00	.00	.00
1DEC96	0	0	21.85	641.70	.00	.00	.00	.00
1JAN97	0	0	26.45	668.15	.00	.00	.00	.00
1FEB97	0	0	23.00	691.15	.00	.00	.00	.00
1MAR97	0	0	24.15	715.30	.00	.00	.00	.00
1APR97	0	0	56.10	771.40	.00	.00	.00	.00
1MAY97	0	0	56.10	827.50	.00	.00	.00	.00
1JUN97	0	0	53.55	881.05	.00	.00	.00	.00
1JUL97	0	0	58.65	939.70	.00	.00	.00	.00
1AUG97	0	0	53.55	993.25	.00	.00	.00	.00
1SEP97	0	0	56.10	1049.35	.00	.00	.00	.00
1OCT97	0	0	34.28	1083.63	.00	.00	.00	.00
1NOV97	0	0	25.81	1109.44	.00	.00	.00	.00
1DEC97	0	0	29.68	1139.12	.00	.00	.00	.00
1JAN98	0	0	28.39	1167.50	.00	.00	.00	.00
1FEB98	0	0	25.81	1193.31	.00	.00	.00	.00
1MAR98	0	0	28.39	1221.70	.00	.00	.00	.00
1APR98	0	0	14.63	1236.33	.00	.00	.00	.00
1MAY98	0	0	13.96	1250.29	.00	.00	.00	.00
1JUN98	0	0	14.63	1264.92	.00	.00	.00	.00
1JUL98	0	0	15.29	1280.21	.00	.00	.00	.00
1AUG98	0	0	13.96	1294.17	.00	.00	.00	.00
1SEP98	0	0	14.63	1308.80	.00	.00	.00	.00
1OCT98	0	0	.00	1308.80	.00	.00	.00	.00
1NOV98	0	0	.00	1308.80	.00	.00	.00	.00
1DEC98	0	0	.00	1308.80	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 715  
12:14

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.1.6 PUBLIC PARTICIPATION - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	.00	.00	.00	.00	.00	.00
1MAY95	0	0	.00	.00	.00	.00	.00	.00
1JUN95	0	0	.00	.00	.00	.00	.00	.00
1JUL95	0	0	.00	.00	.00	.00	.00	.00
1AUG95	0	0	.00	.00	.00	.00	.00	.00
1SEP95	0	0	.00	.00	.00	.00	.00	.00
1OCT95	0	0	.00	.00	.00	.00	.00	.00
1NOV95	0	0	.00	.00	.00	.00	.00	.00
1DEC95	0	0	.00	.00	.00	.00	.00	.00
1JAN96	0	0	.00	.00	.00	.00	.00	.00
1FEB96	0	0	.00	.00	.00	.00	.00	.00
1MAR96	0	0	.00	.00	.00	.00	.00	.00
1APR96	0	0	.00	.00	.00	.00	.00	.00
1MAY96	0	0	.00	.00	.00	.00	.00	.00
1JUN96	0	0	.00	.00	.00	.00	.00	.00
1JUL96	0	0	.00	.00	.00	.00	.00	.00
1AUG96	0	0	.00	.00	.00	.00	.00	.00
1SEP96	0	0	.00	.00	.00	.00	.00	.00
1OCT96	0	0	.00	.00	.00	.00	.00	.00
1NOV96	0	0	.00	.00	.00	.00	.00	.00
1DEC96	0	0	.00	.00	.00	.00	.00	.00
1JAN97	0	0	.00	.00	.00	.00	.00	.00
1FEB97	0	0	.00	.00	.00	.00	.00	.00
1MAR97	0	0	.00	.00	.00	.00	.00	.00
1APR97	0	0	.00	.00	.00	.00	.00	.00
1MAY97	0	0	.00	.00	.00	.00	.00	.00
1JUN97	0	0	.00	.00	.00	.00	.00	.00
1JUL97	0	0	.00	.00	.00	.00	.00	.00
1AUG97	0	0	.00	.00	.00	.00	.00	.00
1SEP97	0	0	.00	.00	.00	.00	.00	.00
1OCT97	0	0	.00	.00	.00	.00	.00	.00
1NOV97	0	0	.00	.00	.00	.00	.00	.00
1DEC97	0	0	.00	.00	.00	.00	.00	.00
1JAN98	0	0	.00	.00	.00	.00	.00	.00
1FEB98	0	0	.00	.00	.00	.00	.00	.00
1MAR98	0	0	.00	.00	.00	.00	.00	.00
1APR98	0	0	.00	.00	.00	.00	.00	.00
1MAY98	0	0	.00	.00	.00	.00	.00	.00
1JUN98	0	0	.00	.00	.00	.00	.00	.00
1JUL98	0	0	.00	.00	.00	.00	.00	.00
1AUG98	0	0	.00	.00	.00	.00	.00	.00
1SEP98	0	0	.00	.00	.00	.00	.00	.00
1OCT98	0	0	.00	.00	.00	.00	.00	.00
1NOV98	0	0	.00	.00	.00	.00	.00	.00
1DEC98	0	0	.00	.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 717  
12:16

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.2.1 CONCEPTUAL DESIGN - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ???????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	.00	.00	.00	.00	.00	.00
1MAY95	0	0	.00	.00	.00	.00	.00	.00
1JUN95	0	0	.00	.00	.00	.00	.00	.00
1JUL95	0	0	.00	.00	.00	.00	.00	.00
1AUG95	0	0	.00	.00	.00	.00	.00	.00
1SEP95	0	0	.00	.00	.00	.00	.00	.00
1OCT95	0	0	.00	.00	.00	.00	.00	.00
1NOV95	0	0	.00	.00	.00	.00	.00	.00
1DEC95	0	0	.00	.00	.00	.00	.00	.00
1JAN96	0	0	.00	.00	.00	.00	.00	.00
1FEB96	0	0	.00	.00	.00	.00	.00	.00
1MAR96	0	0	.00	.00	.00	.00	.00	.00
1APR96	0	0	.00	.00	.00	.00	.00	.00
1MAY96	0	0	.00	.00	.00	.00	.00	.00
1JUN96	0	0	.00	.00	.00	.00	.00	.00
1JUL96	0	0	.00	.00	.00	.00	.00	.00
1AUG96	0	0	.00	.00	.00	.00	.00	.00
1SEP96	0	0	.00	.00	.00	.00	.00	.00
1OCT96	0	0	.00	.00	.00	.00	.00	.00
1NOV96	0	0	.00	.00	.00	.00	.00	.00
1DEC96	0	0	.00	.00	.00	.00	.00	.00
1JAN97	0	0	.00	.00	.00	.00	.00	.00
1FEB97	0	0	.00	.00	.00	.00	.00	.00
1MAR97	0	0	.00	.00	.00	.00	.00	.00
1APR97	0	0	.00	.00	.00	.00	.00	.00
1MAY97	0	0	.00	.00	.00	.00	.00	.00
1JUN97	0	0	.00	.00	.00	.00	.00	.00
1JUL97	0	0	.00	.00	.00	.00	.00	.00
1AUG97	0	0	.00	.00	.00	.00	.00	.00
1SEP97	0	0	.00	.00	.00	.00	.00	.00
1OCT97	0	0	.00	.00	.00	.00	.00	.00
1NOV97	0	0	.00	.00	.00	.00	.00	.00
1DEC97	0	0	.00	.00	.00	.00	.00	.00
1JAN98	0	0	.00	.00	.00	.00	.00	.00
1FEB98	0	0	.00	.00	.00	.00	.00	.00
1MAR98	0	0	.00	.00	.00	.00	.00	.00
1APR98	0	0	.00	.00	.00	.00	.00	.00
1MAY98	0	0	.00	.00	.00	.00	.00	.00
1JUN98	0	0	.00	.00	.00	.00	.00	.00
1JUL98	0	0	.00	.00	.00	.00	.00	.00
1AUG98	0	0	.00	.00	.00	.00	.00	.00
1SEP98	0	0	.00	.00	.00	.00	.00	.00
1OCT98	0	0	.00	.00	.00	.00	.00	.00
1NOV98	0	0	.00	.00	.00	.00	.00	.00
1DEC98	0	0	.00	.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 718  
12:17

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.2.2 PLANT STARTUP MGMT - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ???????????? -								
***DATA DATE***								
1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	17.24	17.24	.00	.00	.00	.00
1MAY95	0	0	19.97	37.21	.00	.00	.00	.00
1JUN95	0	0	19.97	57.17	.00	.00	.00	.00
1JUL95	0	0	18.15	75.32	.00	.00	.00	.00
1AUG95	0	0	20.87	96.20	.00	.00	.00	.00
1SEP95	0	0	18.15	114.35	.00	.00	.00	.00
1OCT95	0	0	19.97	134.31	.00	.00	.00	.00
1NOV95	0	0	18.15	152.46	.00	.00	.00	.00
1DEC95	0	0	29.09	181.56	.00	.00	.00	.00
1JAN96	0	0	30.63	212.18	.00	.00	.00	.00
1FEB96	0	0	30.63	242.81	.00	.00	.00	.00
1MAR96	0	0	32.16	274.96	.00	.00	.00	.00
1APR96	0	0	32.16	307.12	.00	.00	.00	.00
1MAY96	0	0	19.97	327.09	.00	.00	.00	.00
1JUN96	0	0	18.15	345.24	.00	.00	.00	.00
1JUL96	0	0	19.97	365.20	.00	.00	.00	.00
1AUG96	0	0	19.97	385.17	.00	.00	.00	.00
1SEP96	0	0	18.15	403.32	.00	.00	.00	.00
1OCT96	0	0	34.84	438.16	.00	.00	.00	.00
1NOV96	0	0	28.78	466.94	.00	.00	.00	.00
1DEC96	0	0	28.78	495.72	.00	.00	.00	.00
1JAN97	0	0	34.23	529.95	.00	.00	.00	.00
1FEB97	0	0	18.15	548.10	.00	.00	.00	.00
1MAR97	0	0	60.51	608.61	.00	.00	.00	.00
1APR97	0	0	63.39	672.00	.00	.00	.00	.00
1MAY97	0	0	200.68	872.68	.00	.00	.00	.00
1JUN97	0	0	191.56	1064.23	.00	.00	.00	.00
1JUL97	0	0	240.13	1304.36	.00	.00	.00	.00
1AUG97	0	0	219.25	1523.61	.00	.00	.00	.00
1SEP97	0	0	111.80	1635.40	.00	.00	.00	.00
1OCT97	0	0	237.67	1873.07	.00	.00	.00	.00
1NOV97	0	0	109.45	1982.53	.00	.00	.00	.00
1DEC97	0	0	125.87	2108.40	.00	.00	.00	.00
1JAN98	0	0	.00	2108.40	.00	.00	.00	.00
1FEB98	0	0	.00	2108.40	.00	.00	.00	.00
1MAR98	0	0	.00	2108.40	.00	.00	.00	.00
1APR98	0	0	.00	2108.40	.00	.00	.00	.00
1MAY98	0	0	.00	2108.40	.00	.00	.00	.00
1JUN98	0	0	.00	2108.40	.00	.00	.00	.00
1JUL98	0	0	.00	2108.40	.00	.00	.00	.00
1AUG98	0	0	.00	2108.40	.00	.00	.00	.00
1SEP98	0	0	.00	2108.40	.00	.00	.00	.00
1OCT98	0	0	.00	2108.40	.00	.00	.00	.00
1NOV98	0	0	.00	2108.40	.00	.00	.00	.00
1DEC98	0	0	.00	2108.40	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 719  
12:19

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.2.2 PLANT STARTUP MGMT - OPEX RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	17.24	17.24	.00	.00	.00	.00
1MAY95	0	0	19.97	37.21	.00	.00	.00	.00
1JUN95	0	0	19.97	57.17	.00	.00	.00	.00
1JUL95	0	0	18.15	75.32	.00	.00	.00	.00
1AUG95	0	0	20.87	96.20	.00	.00	.00	.00
1SEP95	0	0	18.15	114.35	.00	.00	.00	.00
1OCT95	0	0	19.97	134.31	.00	.00	.00	.00
1NOV95	0	0	18.15	152.46	.00	.00	.00	.00
1DEC95	0	0	29.09	181.56	.00	.00	.00	.00
1JAN96	0	0	30.63	212.18	.00	.00	.00	.00
1FEB96	0	0	30.63	242.81	.00	.00	.00	.00
1MAR96	0	0	32.16	274.96	.00	.00	.00	.00
1APR96	0	0	32.16	307.12	.00	.00	.00	.00
1MAY96	0	0	19.97	327.09	.00	.00	.00	.00
1JUN96	0	0	18.15	345.24	.00	.00	.00	.00
1JUL96	0	0	19.97	365.20	.00	.00	.00	.00
1AUG96	0	0	19.97	385.17	.00	.00	.00	.00
1SEP96	0	0	18.15	403.32	.00	.00	.00	.00
1OCT96	0	0	34.84	438.16	.00	.00	.00	.00
1NOV96	0	0	28.78	466.94	.00	.00	.00	.00
1DEC96	0	0	28.78	495.72	.00	.00	.00	.00
1JAN97	0	0	34.23	529.95	.00	.00	.00	.00
1FEB97	0	0	18.15	548.10	.00	.00	.00	.00
1MAR97	0	0	60.51	608.61	.00	.00	.00	.00
1APR97	0	0	63.39	672.00	.00	.00	.00	.00
1MAY97	0	0	200.68	872.68	.00	.00	.00	.00
1JUN97	0	0	191.56	1064.23	.00	.00	.00	.00
1JUL97	0	0	240.13	1304.36	.00	.00	.00	.00
1AUG97	0	0	219.25	1523.61	.00	.00	.00	.00
1SEP97	0	0	111.80	1635.40	.00	.00	.00	.00
1OCT97	0	0	237.67	1873.07	.00	.00	.00	.00
1NOV97	0	0	109.45	1982.53	.00	.00	.00	.00
1DEC97	0	0	125.87	2108.40	.00	.00	.00	.00
1JAN98	0	0	.00	2108.40	.00	.00	.00	.00
1FEB98	0	0	.00	2108.40	.00	.00	.00	.00
1MAR98	0	0	.00	2108.40	.00	.00	.00	.00
1APR98	0	0	.00	2108.40	.00	.00	.00	.00
1MAY98	0	0	.00	2108.40	.00	.00	.00	.00
1JUN98	0	0	.00	2108.40	.00	.00	.00	.00
1JUL98	0	0	.00	2108.40	.00	.00	.00	.00
1AUG98	0	0	.00	2108.40	.00	.00	.00	.00
1SEP98	0	0	.00	2108.40	.00	.00	.00	.00
1OCT98	0	0	.00	2108.40	.00	.00	.00	.00
1NOV98	0	0	.00	2108.40	.00	.00	.00	.00
1DEC98	0	0	.00	2108.40	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 720  
12:20

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.2.3 ACTIVATION - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	.00	.00	.00	.00	.00	.00
1MAY95	0	0	.00	.00	.00	.00	.00	.00
1JUN95	0	0	.00	.00	.00	.00	.00	.00
1JUL95	0	0	.00	.00	.00	.00	.00	.00
1AUG95	0	0	.00	.00	.00	.00	.00	.00
1SEP95	0	0	.00	.00	.00	.00	.00	.00
1OCT95	0	0	.00	.00	.00	.00	.00	.00
1NOV95	0	0	.00	.00	.00	.00	.00	.00
1DEC95	0	0	.00	.00	.00	.00	.00	.00
1JAN96	0	0	.00	.00	.00	.00	.00	.00
1FEB96	0	0	.00	.00	.00	.00	.00	.00
1MAR96	0	0	.00	.00	.00	.00	.00	.00
1APR96	0	0	.00	.00	.00	.00	.00	.00
1MAY96	0	0	.00	.00	.00	.00	.00	.00
1JUN96	0	0	.00	.00	.00	.00	.00	.00
1JUL96	0	0	.00	.00	.00	.00	.00	.00
1AUG96	0	0	.00	.00	.00	.00	.00	.00
1SEP96	0	0	.00	.00	.00	.00	.00	.00
1OCT96	0	0	.00	.00	.00	.00	.00	.00
1NOV96	0	0	.00	.00	.00	.00	.00	.00
1DEC96	0	0	.00	.00	.00	.00	.00	.00
1JAN97	0	0	.00	.00	.00	.00	.00	.00
1FEB97	0	0	.00	.00	.00	.00	.00	.00
1MAR97	0	0	7.69	7.69	.00	.00	.00	.00
1APR97	0	0	8.06	15.75	.00	.00	.00	.00
1MAY97	0	0	8.06	23.81	.00	.00	.00	.00
1JUN97	0	0	7.69	31.50	.00	.00	.00	.00
1JUL97	0	0	170.53	202.03	.00	.00	.00	.00
1AUG97	0	0	155.70	357.73	.00	.00	.00	.00
1SEP97	0	0	163.11	520.84	.00	.00	.00	.00
1OCT97	0	0	234.43	755.27	.00	.00	.00	.00
1NOV97	0	0	203.85	959.12	.00	.00	.00	.00
1DEC97	0	0	234.43	1193.55	.00	.00	.00	.00
1JAN98	0	0	497.94	1691.49	.00	.00	.00	.00
1FEB98	0	0	485.94	2177.43	.00	.00	.00	.00
1MAR98	0	0	534.54	2711.97	.00	.00	.00	.00
1APR98	0	0	534.54	3246.50	.00	.00	.00	.00
1MAY98	0	0	242.02	3488.53	.00	.00	.00	.00
1JUN98	0	0	253.55	3742.07	.00	.00	.00	.00
1JUL98	0	0	190.99	3933.06	.00	.00	.00	.00
1AUG98	0	0	174.38	4107.44	.00	.00	.00	.00
1SEP98	0	0	182.69	4290.13	.00	.00	.00	.00
1OCT98	0	0	.00	4290.13	.00	.00	.00	.00
1NOV98	0	0	.00	4290.13	.00	.00	.00	.00
1DEC98	0	0	.00	4290.13	.00	.00	.00	.00



REPORT DATE 13APR95 RUN NO. 722  
12:22

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.1 PROJECT MANAGEMENT - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ???????????? -								
***DATA DATE***								
1OCT94	0	0	113.40	113.40	.00	.00	.00	.00
1NOV94	0	0	108.00	221.40	.00	.00	.00	.00
1DEC94	0	0	102.60	324.00	.00	.00	.00	.00
1JAN95	0	0	108.00	432.00	.00	.00	.00	.00
1FEB95	0	0	102.60	534.60	.00	.00	.00	.00
1MAR95	0	0	124.20	658.80	.00	.00	.00	.00
1APR95	0	0	102.60	761.40	.00	.00	.00	.00
1MAY95	0	0	130.89	892.29	.00	.00	.00	.00
1JUN95	0	0	130.89	1023.19	.00	.00	.00	.00
1JUL95	0	0	119.00	1142.19	.00	.00	.00	.00
1AUG95	0	0	136.84	1279.03	.00	.00	.00	.00
1SEP95	0	0	114.00	1393.03	.00	.00	.00	.00
1OCT95	0	0	125.40	1518.43	.00	.00	.00	.00
1NOV95	0	0	114.00	1632.43	.00	.00	.00	.00
1DEC95	0	0	108.30	1740.73	.00	.00	.00	.00
1JAN96	0	0	114.00	1854.73	.00	.00	.00	.00
1FEB96	0	0	114.00	1968.73	.00	.00	.00	.00
1MAR96	0	0	119.70	2088.43	.00	.00	.00	.00
1APR96	0	0	119.70	2208.13	.00	.00	.00	.00
1MAY96	0	0	125.40	2333.53	.00	.00	.00	.00
1JUN96	0	0	119.00	2452.53	.00	.00	.00	.00
1JUL96	0	0	130.90	2583.43	.00	.00	.00	.00
1AUG96	0	0	130.90	2714.33	.00	.00	.00	.00
1SEP96	0	0	119.00	2833.33	.00	.00	.00	.00
1OCT96	0	0	131.10	2964.43	.00	.00	.00	.00
1NOV96	0	0	108.30	3072.73	.00	.00	.00	.00
1DEC96	0	0	108.30	3181.03	.00	.00	.00	.00
1JAN97	0	0	131.10	3312.13	.00	.00	.00	.00
1FEB97	0	0	114.00	3426.13	.00	.00	.00	.00
1MAR97	0	0	119.70	3545.83	.00	.00	.00	.00
1APR97	0	0	99.00	3644.83	.00	.00	.00	.00
1MAY97	0	0	99.00	3743.83	.00	.00	.00	.00
1JUN97	0	0	96.60	3840.43	.00	.00	.00	.00
1JUL97	0	0	105.80	3946.23	.00	.00	.00	.00
1AUG97	0	0	96.60	4042.83	.00	.00	.00	.00
1SEP97	0	0	101.20	4144.03	.00	.00	.00	.00
1OCT97	0	0	48.53	4192.56	.00	.00	.00	.00
1NOV97	0	0	42.20	4234.76	.00	.00	.00	.00
1DEC97	0	0	48.53	4283.29	.00	.00	.00	.00
1JAN98	0	0	46.42	4329.71	.00	.00	.00	.00
1FEB98	0	0	42.20	4371.91	.00	.00	.00	.00
1MAR98	0	0	46.42	4418.33	.00	.00	.00	.00
1APR98	0	0	23.10	4441.43	.00	.00	.00	.00
1MAY98	0	0	22.05	4463.48	.00	.00	.00	.00
1JUN98	0	0	23.10	4486.58	.00	.00	.00	.00
1JUL98	0	0	24.15	4510.73	.00	.00	.00	.00
1AUG98	0	0	22.05	4532.78	.00	.00	.00	.00
1SEP98	0	0	23.10	4555.88	.00	.00	.00	.00
1OCT98	0	0	.00	4555.88	.00	.00	.00	.00
1NOV98	0	0	.00	4555.88	.00	.00	.00	.00
1DEC98	0	0	.00	4555.88	.00	.00	.00	.00

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REPORT DATE 13APR95 RUN NO. 723  
12:23

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.1 PROJECT MANAGEMENT - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	113.40	113.40	.00	.00	.00	.00
1NOV94	0	0	108.00	221.40	.00	.00	.00	.00
1DEC94	0	0	102.60	324.00	.00	.00	.00	.00
1JAN95	0	0	108.00	432.00	.00	.00	.00	.00
1FEB95	0	0	102.60	534.60	.00	.00	.00	.00
1MAR95	0	0	124.20	658.80	.00	.00	.00	.00
1APR95	0	0	102.60	761.40	.00	.00	.00	.00
1MAY95	0	0	130.89	892.29	.00	.00	.00	.00
1JUN95	0	0	130.89	1023.19	.00	.00	.00	.00
1JUL95	0	0	119.00	1142.19	.00	.00	.00	.00
1AUG95	0	0	136.84	1279.03	.00	.00	.00	.00
1SEP95	0	0	114.00	1393.03	.00	.00	.00	.00
1OCT95	0	0	125.40	1518.43	.00	.00	.00	.00
1NOV95	0	0	114.00	1632.43	.00	.00	.00	.00
1DEC95	0	0	108.30	1740.73	.00	.00	.00	.00
1JAN96	0	0	114.00	1854.73	.00	.00	.00	.00
1FEB96	0	0	114.00	1968.73	.00	.00	.00	.00
1MAR96	0	0	119.70	2088.43	.00	.00	.00	.00
1APR96	0	0	119.70	2208.13	.00	.00	.00	.00
1MAY96	0	0	125.40	2333.53	.00	.00	.00	.00
1JUN96	0	0	119.00	2452.53	.00	.00	.00	.00
1JUL96	0	0	130.90	2583.43	.00	.00	.00	.00
1AUG96	0	0	130.90	2714.33	.00	.00	.00	.00
1SEP96	0	0	119.00	2833.33	.00	.00	.00	.00
1OCT96	0	0	131.10	2964.43	.00	.00	.00	.00
1NOV96	0	0	108.30	3072.73	.00	.00	.00	.00
1DEC96	0	0	108.30	3181.03	.00	.00	.00	.00
1JAN97	0	0	131.10	3312.13	.00	.00	.00	.00
1FEB97	0	0	114.00	3426.13	.00	.00	.00	.00
1MAR97	0	0	119.70	3545.83	.00	.00	.00	.00
1APR97	0	0	99.00	3644.83	.00	.00	.00	.00
1MAY97	0	0	99.00	3743.83	.00	.00	.00	.00
1JUN97	0	0	96.60	3840.43	.00	.00	.00	.00
1JUL97	0	0	105.80	3946.23	.00	.00	.00	.00
1AUG97	0	0	96.60	4042.83	.00	.00	.00	.00
1SEP97	0	0	101.20	4144.03	.00	.00	.00	.00
1OCT97	0	0	48.53	4192.56	.00	.00	.00	.00
1NOV97	0	0	42.20	4234.76	.00	.00	.00	.00
1DEC97	0	0	48.53	4283.29	.00	.00	.00	.00
1JAN98	0	0	46.42	4329.71	.00	.00	.00	.00
1FEB98	0	0	42.20	4371.91	.00	.00	.00	.00
1MAR98	0	0	46.42	4418.33	.00	.00	.00	.00
1APR98	0	0	23.10	4441.43	.00	.00	.00	.00
1MAY98	0	0	22.05	4463.48	.00	.00	.00	.00
1JUN98	0	0	23.10	4486.58	.00	.00	.00	.00
1JUL98	0	0	24.15	4510.73	.00	.00	.00	.00
1AUG98	0	0	22.05	4532.78	.00	.00	.00	.00
1SEP98	0	0	23.10	4555.88	.00	.00	.00	.00
1OCT98	0	0	.00	4555.88	.00	.00	.00	.00
1NOV98	0	0	.00	4555.88	.00	.00	.00	.00
1DEC98	0	0	.00	4555.88	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	59.95	59.95	.00	.00	.00	.00
1NOV94	0	0	57.10	117.05	.00	.00	.00	.00
1DEC94	0	0	54.24	171.29	.00	.00	.00	.00
1JAN95	0	0	57.10	228.39	.00	.00	.00	.00
1FEB95	0	0	54.24	282.63	.00	.00	.00	.00
1MAR95	0	0	65.66	348.29	.00	.00	.00	.00
1APR95	0	0	54.24	402.53	.00	.00	.00	.00
1MAY95	0	0	62.81	465.34	.00	.00	.00	.00
1JUN95	0	0	62.81	528.15	.00	.00	.00	.00
1JUL95	0	0	57.10	585.24	.00	.00	.00	.00
1AUG95	0	0	65.66	650.90	.00	.00	.00	.00
1SEP95	0	0	57.10	708.00	.00	.00	.00	.00
1OCT95	0	0	75.49	783.49	.00	.00	.00	.00
1NOV95	0	0	68.63	852.12	.00	.00	.00	.00
1DEC95	0	0	65.20	917.32	.00	.00	.00	.00
1JAN96	0	0	68.63	985.95	.00	.00	.00	.00
1FEB96	0	0	68.63	1054.58	.00	.00	.00	.00
1MAR96	0	0	72.06	1126.64	.00	.00	.00	.00
1APR96	0	0	72.06	1198.70	.00	.00	.00	.00
1MAY96	0	0	75.49	1274.20	.00	.00	.00	.00
1JUN96	0	0	68.63	1342.83	.00	.00	.00	.00
1JUL96	0	0	75.49	1418.32	.00	.00	.00	.00
1AUG96	0	0	75.49	1493.81	.00	.00	.00	.00
1SEP96	0	0	68.63	1562.44	.00	.00	.00	.00
1OCT96	0	0	78.92	1641.37	.00	.00	.00	.00
1NOV96	0	0	65.20	1706.57	.00	.00	.00	.00
1DEC96	0	0	65.20	1771.76	.00	.00	.00	.00
1JAN97	0	0	78.92	1850.69	.00	.00	.00	.00
1FEB97	0	0	68.63	1919.32	.00	.00	.00	.00
1MAR97	0	0	72.06	1991.38	.00	.00	.00	.00
1APR97	0	0	75.49	2066.87	.00	.00	.00	.00
1MAY97	0	0	75.49	2142.37	.00	.00	.00	.00
1JUN97	0	0	72.06	2214.43	.00	.00	.00	.00
1JUL97	0	0	78.92	2293.35	.00	.00	.00	.00
1AUG97	0	0	72.06	2365.41	.00	.00	.00	.00
1SEP97	0	0	75.49	2440.91	.00	.00	.00	.00
1OCT97	0	0	78.92	2519.83	.00	.00	.00	.00
1NOV97	0	0	68.63	2588.46	.00	.00	.00	.00
1DEC97	0	0	78.92	2667.38	.00	.00	.00	.00
1JAN98	0	0	75.49	2742.88	.00	.00	.00	.00
1FEB98	0	0	68.63	2811.51	.00	.00	.00	.00
1MAR98	0	0	75.49	2887.00	.00	.00	.00	.00
1APR98	0	0	32.41	2919.41	.00	.00	.00	.00
1MAY98	0	0	30.94	2950.35	.00	.00	.00	.00
1JUN98	0	0	32.41	2982.76	.00	.00	.00	.00
1JUL98	0	0	33.89	3016.65	.00	.00	.00	.00
1AUG98	0	0	30.94	3047.59	.00	.00	.00	.00
1SEP98	0	0	32.41	3080.00	.00	.00	.00	.00
1OCT98	0	0	.00	3080.00	.00	.00	.00	.00
1NOV98	0	0	.00	3080.00	.00	.00	.00	.00
1DEC98	0	0	.00	3080.00	.00	.00	.00	.00

MIXED WASTE MANAGEMENT FACILITY

PRIMAVERA PROJECT PLANNER

MMF - REV 1.2 REBASELINE 3-15-95

REPORT DATE 13APR95 RUN NO. 725  
12:25

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.2 PROJECT CONTROL - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	59.95	59.95	.00	.00	.00	.00
1NOV94	0	0	57.10	117.05	.00	.00	.00	.00
1DEC94	0	0	54.24	171.29	.00	.00	.00	.00
1JAN95	0	0	57.10	228.39	.00	.00	.00	.00
1FEB95	0	0	54.24	282.63	.00	.00	.00	.00
1MAR95	0	0	65.66	348.29	.00	.00	.00	.00
1APR95	0	0	54.24	402.53	.00	.00	.00	.00
1MAY95	0	0	62.81	465.34	.00	.00	.00	.00
1JUN95	0	0	62.81	528.15	.00	.00	.00	.00
1JUL95	0	0	57.10	585.24	.00	.00	.00	.00
1AUG95	0	0	65.66	650.90	.00	.00	.00	.00
1SEP95	0	0	57.10	708.00	.00	.00	.00	.00
1OCT95	0	0	75.49	783.49	.00	.00	.00	.00
1NOV95	0	0	68.63	852.12	.00	.00	.00	.00
1DEC95	0	0	65.20	917.32	.00	.00	.00	.00
1JAN96	0	0	68.63	985.95	.00	.00	.00	.00
1FEB96	0	0	68.63	1054.58	.00	.00	.00	.00
1MAR96	0	0	72.06	1126.64	.00	.00	.00	.00
1APR96	0	0	72.06	1198.70	.00	.00	.00	.00
1MAY96	0	0	75.49	1274.20	.00	.00	.00	.00
1JUN96	0	0	68.63	1342.83	.00	.00	.00	.00
1JUL96	0	0	75.49	1418.32	.00	.00	.00	.00
1AUG96	0	0	75.49	1493.81	.00	.00	.00	.00
1SEP96	0	0	68.63	1562.44	.00	.00	.00	.00
1OCT96	0	0	78.92	1641.37	.00	.00	.00	.00
1NOV96	0	0	65.20	1706.57	.00	.00	.00	.00
1DEC96	0	0	65.20	1771.76	.00	.00	.00	.00
1JAN97	0	0	78.92	1850.69	.00	.00	.00	.00
1FEB97	0	0	68.63	1919.32	.00	.00	.00	.00
1MAR97	0	0	72.06	1991.38	.00	.00	.00	.00
1APR97	0	0	75.49	2066.87	.00	.00	.00	.00
1MAY97	0	0	75.49	2142.37	.00	.00	.00	.00
1JUN97	0	0	72.06	2214.43	.00	.00	.00	.00
1JUL97	0	0	78.92	2293.35	.00	.00	.00	.00
1AUG97	0	0	72.06	2365.41	.00	.00	.00	.00
1SEP97	0	0	75.49	2440.91	.00	.00	.00	.00
1OCT97	0	0	78.92	2519.83	.00	.00	.00	.00
1NOV97	0	0	68.63	2588.46	.00	.00	.00	.00
1DEC97	0	0	78.92	2667.38	.00	.00	.00	.00
1JAN98	0	0	75.49	2742.88	.00	.00	.00	.00
1FEB98	0	0	68.63	2811.51	.00	.00	.00	.00
1MAR98	0	0	75.49	2887.00	.00	.00	.00	.00
1APR98	0	0	32.41	2919.41	.00	.00	.00	.00
1MAY98	0	0	30.94	2950.35	.00	.00	.00	.00
1JUN98	0	0	32.41	2982.76	.00	.00	.00	.00
1JUL98	0	0	33.89	3016.65	.00	.00	.00	.00
1AUG98	0	0	30.94	3047.59	.00	.00	.00	.00
1SEP98	0	0	32.41	3080.00	.00	.00	.00	.00
1OCT98	0	0	.00	3080.00	.00	.00	.00	.00
1NOV98	0	0	.00	3080.00	.00	.00	.00	.00
1DEC98	0	0	.00	3080.00	.00	.00	.00	.00

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REPORT DATE 13APR95 RUN NO. 726  
12:26

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.3.3 TECHNICAL SYS INTEGR - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	58.26	58.26	.00	.00	.00	.00
1NOV94	0	0	55.48	113.74	.00	.00	.00	.00
1DEC94	0	0	52.71	166.45	.00	.00	.00	.00
1JAN95	0	0	55.48	221.94	.00	.00	.00	.00
1FEB95	0	0	52.71	274.65	.00	.00	.00	.00
1MAR95	0	0	63.81	338.45	.00	.00	.00	.00
1APR95	0	0	52.71	391.16	.00	.00	.00	.00
1MAY95	0	0	61.03	452.19	.00	.00	.00	.00
1JUN95	0	0	61.03	513.23	.00	.00	.00	.00
1JUL95	0	0	55.48	568.71	.00	.00	.00	.00
1AUG95	0	0	63.81	632.52	.00	.00	.00	.00
1SEP95	0	0	55.48	688.00	.00	.00	.00	.00
1OCT95	0	0	53.68	741.68	.00	.00	.00	.00
1NOV95	0	0	48.80	790.48	.00	.00	.00	.00
1DEC95	0	0	46.36	836.84	.00	.00	.00	.00
1JAN96	0	0	48.80	885.64	.00	.00	.00	.00
1FEB96	0	0	48.80	934.43	.00	.00	.00	.00
1MAR96	0	0	51.24	985.67	.00	.00	.00	.00
1APR96	0	0	51.24	1036.91	.00	.00	.00	.00
1MAY96	0	0	53.68	1090.59	.00	.00	.00	.00
1JUN96	0	0	48.80	1139.39	.00	.00	.00	.00
1JUL96	0	0	53.68	1193.07	.00	.00	.00	.00
1AUG96	0	0	53.68	1246.75	.00	.00	.00	.00
1SEP96	0	0	48.80	1295.55	.00	.00	.00	.00
1OCT96	0	0	56.12	1351.67	.00	.00	.00	.00
1NOV96	0	0	46.36	1398.02	.00	.00	.00	.00
1DEC96	0	0	46.36	1444.38	.00	.00	.00	.00
1JAN97	0	0	56.12	1500.50	.00	.00	.00	.00
1FEB97	0	0	48.80	1549.30	.00	.00	.00	.00
1MAR97	0	0	51.24	1600.54	.00	.00	.00	.00
1APR97	0	0	53.68	1654.22	.00	.00	.00	.00
1MAY97	0	0	53.68	1707.90	.00	.00	.00	.00
1JUN97	0	0	51.24	1759.14	.00	.00	.00	.00
1JUL97	0	0	56.12	1815.26	.00	.00	.00	.00
1AUG97	0	0	51.24	1866.49	.00	.00	.00	.00
1SEP97	0	0	53.68	1920.17	.00	.00	.00	.00
1OCT97	0	0	56.12	1976.29	.00	.00	.00	.00
1NOV97	0	0	48.80	2025.09	.00	.00	.00	.00
1DEC97	0	0	56.12	2081.21	.00	.00	.00	.00
1JAN98	0	0	53.68	2134.89	.00	.00	.00	.00
1FEB98	0	0	48.80	2183.69	.00	.00	.00	.00
1MAR98	0	0	53.68	2237.37	.00	.00	.00	.00
1APR98	0	0	53.68	2291.05	.00	.00	.00	.00
1MAY98	0	0	51.24	2342.28	.00	.00	.00	.00
1JUN98	0	0	53.68	2395.96	.00	.00	.00	.00
1JUL98	0	0	56.12	2452.08	.00	.00	.00	.00
1AUG98	0	0	51.24	2503.32	.00	.00	.00	.00
1SEP98	0	0	53.68	2557.00	.00	.00	.00	.00
1OCT98	0	0	.00	2557.00	.00	.00	.00	.00
1NOV98	0	0	.00	2557.00	.00	.00	.00	.00
1DEC98	0	0	.00	2557.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 727  
12:27

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.3.3 TECH SYS INTEGR - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	58.26	58.26	.00	.00	.00	.00
1NOV94	0	0	55.48	113.74	.00	.00	.00	.00
1DEC94	0	0	52.71	166.45	.00	.00	.00	.00
1JAN95	0	0	55.48	221.94	.00	.00	.00	.00
1FEB95	0	0	52.71	274.65	.00	.00	.00	.00
1MAR95	0	0	63.81	338.45	.00	.00	.00	.00
1APR95	0	0	52.71	391.16	.00	.00	.00	.00
1MAY95	0	0	61.03	452.19	.00	.00	.00	.00
1JUN95	0	0	61.03	513.23	.00	.00	.00	.00
1JUL95	0	0	55.48	568.71	.00	.00	.00	.00
1AUG95	0	0	63.81	632.52	.00	.00	.00	.00
1SEP95	0	0	55.48	688.00	.00	.00	.00	.00
1OCT95	0	0	53.68	741.68	.00	.00	.00	.00
1NOV95	0	0	48.80	790.48	.00	.00	.00	.00
1DEC95	0	0	46.36	836.84	.00	.00	.00	.00
1JAN96	0	0	48.80	885.64	.00	.00	.00	.00
1FEB96	0	0	48.80	934.43	.00	.00	.00	.00
1MAR96	0	0	51.24	985.67	.00	.00	.00	.00
1APR96	0	0	51.24	1036.91	.00	.00	.00	.00
1MAY96	0	0	53.68	1090.59	.00	.00	.00	.00
1JUN96	0	0	48.80	1139.39	.00	.00	.00	.00
1JUL96	0	0	53.68	1193.07	.00	.00	.00	.00
1AUG96	0	0	53.68	1246.75	.00	.00	.00	.00
1SEP96	0	0	48.80	1295.55	.00	.00	.00	.00
1OCT96	0	0	56.12	1351.67	.00	.00	.00	.00
1NOV96	0	0	46.36	1398.02	.00	.00	.00	.00
1DEC96	0	0	46.36	1444.38	.00	.00	.00	.00
1JAN97	0	0	56.12	1500.50	.00	.00	.00	.00
1FEB97	0	0	48.80	1549.30	.00	.00	.00	.00
1MAR97	0	0	51.24	1600.54	.00	.00	.00	.00
1APR97	0	0	53.68	1654.22	.00	.00	.00	.00
1MAY97	0	0	53.68	1707.90	.00	.00	.00	.00
1JUN97	0	0	51.24	1759.14	.00	.00	.00	.00
1JUL97	0	0	56.12	1815.26	.00	.00	.00	.00
1AUG97	0	0	51.24	1866.49	.00	.00	.00	.00
1SEP97	0	0	53.68	1920.17	.00	.00	.00	.00
1OCT97	0	0	56.12	1976.29	.00	.00	.00	.00
1NOV97	0	0	48.80	2025.09	.00	.00	.00	.00
1DEC97	0	0	56.12	2081.21	.00	.00	.00	.00
1JAN98	0	0	53.68	2134.89	.00	.00	.00	.00
1FEB98	0	0	48.80	2183.69	.00	.00	.00	.00
1MAR98	0	0	53.68	2237.37	.00	.00	.00	.00
1APR98	0	0	53.68	2291.05	.00	.00	.00	.00
1MAY98	0	0	51.24	2342.28	.00	.00	.00	.00
1JUN98	0	0	53.68	2395.96	.00	.00	.00	.00
1JUL98	0	0	56.12	2452.08	.00	.00	.00	.00
1AUG98	0	0	51.24	2503.32	.00	.00	.00	.00
1SEP98	0	0	53.68	2557.00	.00	.00	.00	.00
1OCT98	0	0	.00	2557.00	.00	.00	.00	.00
1NOV98	0	0	.00	2557.00	.00	.00	.00	.00
1DEC98	0	0	.00	2557.00	.00	.00	.00	.00

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REPORT DATE 13APR95 RUN NO. 728  
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TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.4.1 RECEIVING & SHIPPING - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????								
***DATA DATE***								
1OCT94	0	0	44.21	44.21	.00	.00	.00	.00
1NOV94	0	0	42.11	86.32	.00	.00	.00	.00
1DEC94	0	0	40.00	126.32	.00	.00	.00	.00
1JAN95	0	0	42.11	168.43	.00	.00	.00	.00
1FEB95	0	0	40.00	208.43	.00	.00	.00	.00
1MAR95	0	0	48.42	256.85	.00	.00	.00	.00
1APR95	0	0	31.63	288.48	.00	.00	.00	.00
1MAY95	0	0	34.81	323.29	.00	.00	.00	.00
1JUN95	0	0	34.81	358.10	.00	.00	.00	.00
1JUL95	0	0	9.64	367.74	.00	.00	.00	.00
1AUG95	0	0	11.08	378.82	.00	.00	.00	.00
1SEP95	0	0	9.64	388.46	.00	.00	.00	.00
1OCT95	0	0	10.60	399.06	.00	.00	.00	.00
1NOV95	0	0	9.64	408.69	.00	.00	.00	.00
1DEC95	0	0	9.16	417.85	.00	.00	.00	.00
1JAN96	0	0	9.64	427.49	.00	.00	.00	.00
1FEB96	0	0	9.64	437.12	.00	.00	.00	.00
1MAR96	0	0	10.12	447.24	.00	.00	.00	.00
1APR96	0	0	10.12	457.36	.00	.00	.00	.00
1MAY96	0	0	10.60	467.96	.00	.00	.00	.00
1JUN96	0	0	9.64	477.60	.00	.00	.00	.00
1JUL96	0	0	2.57	480.17	.00	.00	.00	.00
1AUG96	0	0	2.57	482.74	.00	.00	.00	.00
1SEP96	0	0	5.90	488.64	.00	.00	.00	.00
1OCT96	0	0	6.78	495.42	.00	.00	.00	.00
1NOV96	0	0	5.60	501.03	.00	.00	.00	.00
1DEC96	0	0	5.60	506.63	.00	.00	.00	.00
1JAN97	0	0	6.78	513.41	.00	.00	.00	.00
1FEB97	0	0	5.90	519.31	.00	.00	.00	.00
1MAR97	0	0	6.19	525.51	.00	.00	.00	.00
1APR97	0	0	6.49	532.00	.00	.00	.00	.00
1MAY97	0	0	6.49	538.48	.00	.00	.00	.00
1JUN97	0	0	6.19	544.68	.00	.00	.00	.00
1JUL97	0	0	8.68	553.35	.00	.00	.00	.00
1AUG97	0	0	7.92	561.27	.00	.00	.00	.00
1SEP97	0	0	8.30	569.57	.00	.00	.00	.00
1OCT97	0	0	8.68	578.25	.00	.00	.00	.00
1NOV97	0	0	7.54	585.79	.00	.00	.00	.00
1DEC97	0	0	8.68	594.47	.00	.00	.00	.00
1JAN98	0	0	5.73	600.19	.00	.00	.00	.00
1FEB98	0	0	5.21	605.40	.00	.00	.00	.00
1MAR98	0	0	.00	605.40	.00	.00	.00	.00
1APR98	0	0	.00	605.40	.00	.00	.00	.00
1MAY98	0	0	.00	605.40	.00	.00	.00	.00
1JUN98	0	0	.00	605.40	.00	.00	.00	.00
1JUL98	0	0	.00	605.40	.00	.00	.00	.00
1AUG98	0	0	.00	605.40	.00	.00	.00	.00
1SEP98	0	0	.00	605.40	.00	.00	.00	.00
1OCT98	0	0	.00	605.40	.00	.00	.00	.00
1NOV98	0	0	.00	605.40	.00	.00	.00	.00
1DEC98	0	0	.00	605.40	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 729  
12:29

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.4.1 RECEIVING & SHIPPING - CENRTC RESOURCE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	44.21	44.21	.00	.00	.00	.00
1NOV94	0	0	42.11	86.32	.00	.00	.00	.00
1DEC94	0	0	40.00	126.32	.00	.00	.00	.00
1JAN95	0	0	42.11	168.43	.00	.00	.00	.00
1FEB95	0	0	40.00	208.43	.00	.00	.00	.00
1MAR95	0	0	48.42	256.85	.00	.00	.00	.00
1APR95	0	0	31.63	288.48	.00	.00	.00	.00
1MAY95	0	0	34.81	323.29	.00	.00	.00	.00
1JUN95	0	0	34.81	358.10	.00	.00	.00	.00
1JUL95	0	0	9.64	367.74	.00	.00	.00	.00
1AUG95	0	0	11.08	378.82	.00	.00	.00	.00
1SEP95	0	0	9.64	388.46	.00	.00	.00	.00
1OCT95	0	0	10.60	399.06	.00	.00	.00	.00
1NOV95	0	0	9.64	408.69	.00	.00	.00	.00
1DEC95	0	0	9.16	417.85	.00	.00	.00	.00
1JAN96	0	0	9.64	427.49	.00	.00	.00	.00
1FEB96	0	0	9.64	437.12	.00	.00	.00	.00
1MAR96	0	0	10.12	447.24	.00	.00	.00	.00
1APR96	0	0	10.12	457.36	.00	.00	.00	.00
1MAY96	0	0	10.60	467.96	.00	.00	.00	.00
1JUN96	0	0	9.64	477.60	.00	.00	.00	.00
1JUL96	0	0	2.57	480.17	.00	.00	.00	.00
1AUG96	0	0	2.57	482.74	.00	.00	.00	.00
1SEP96	0	0	5.90	488.64	.00	.00	.00	.00
1OCT96	0	0	6.78	495.42	.00	.00	.00	.00
1NOV96	0	0	5.60	501.03	.00	.00	.00	.00
1DEC96	0	0	5.60	506.63	.00	.00	.00	.00
1JAN97	0	0	6.78	513.41	.00	.00	.00	.00
1FEB97	0	0	5.90	519.31	.00	.00	.00	.00
1MAR97	0	0	6.19	525.51	.00	.00	.00	.00
1APR97	0	0	6.49	532.00	.00	.00	.00	.00
1MAY97	0	0	6.49	538.48	.00	.00	.00	.00
1JUN97	0	0	6.19	544.68	.00	.00	.00	.00
1JUL97	0	0	8.68	553.35	.00	.00	.00	.00
1AUG97	0	0	7.92	561.27	.00	.00	.00	.00
1SEP97	0	0	8.30	569.57	.00	.00	.00	.00
1OCT97	0	0	8.68	578.25	.00	.00	.00	.00
1NOV97	0	0	7.54	585.79	.00	.00	.00	.00
1DEC97	0	0	8.68	594.47	.00	.00	.00	.00
1JAN98	0	0	5.73	600.19	.00	.00	.00	.00
1FEB98	0	0	5.21	605.40	.00	.00	.00	.00
1MAR98	0	0	.00	605.40	.00	.00	.00	.00
1APR98	0	0	.00	605.40	.00	.00	.00	.00
1MAY98	0	0	.00	605.40	.00	.00	.00	.00
1JUN98	0	0	.00	605.40	.00	.00	.00	.00
1JUL98	0	0	.00	605.40	.00	.00	.00	.00
1AUG98	0	0	.00	605.40	.00	.00	.00	.00
1SEP98	0	0	.00	605.40	.00	.00	.00	.00
1OCT98	0	0	.00	605.40	.00	.00	.00	.00
1NOV98	0	0	.00	605.40	.00	.00	.00	.00
1DEC98	0	0	.00	605.40	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 730  
12:31

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.2 SOLIDS FEED PREP - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	80.77	80.77	.00	.00	.00	.00
1NOV94	0	0	76.92	157.69	.00	.00	.00	.00
1DEC94	0	0	73.08	230.77	.00	.00	.00	.00
1JAN95	0	0	76.92	307.69	.00	.00	.00	.00
1FEB95	0	0	73.08	380.76	.00	.00	.00	.00
1MAR95	0	0	88.46	469.23	.00	.00	.00	.00
1APR95	0	0	73.08	542.30	.00	.00	.00	.00
1MAY95	0	0	84.61	626.92	.00	.00	.00	.00
1JUN95	0	0	84.61	711.53	.00	.00	.00	.00
1JUL95	0	0	83.41	794.94	.00	.00	.00	.00
1AUG95	0	0	95.92	890.86	.00	.00	.00	.00
1SEP95	0	0	83.41	974.28	.00	.00	.00	.00
1OCT95	0	0	91.75	1066.03	.00	.00	.00	.00
1NOV95	0	0	83.41	1149.44	.00	.00	.00	.00
1DEC95	0	0	79.24	1228.68	.00	.00	.00	.00
1JAN96	0	0	83.41	1312.09	.00	.00	.00	.00
1FEB96	0	0	83.41	1395.50	.00	.00	.00	.00
1MAR96	0	0	87.58	1483.08	.00	.00	.00	.00
1APR96	0	0	87.58	1570.67	.00	.00	.00	.00
1MAY96	0	0	91.75	1662.42	.00	.00	.00	.00
1JUN96	0	0	83.41	1745.83	.00	.00	.00	.00
1JUL96	0	0	97.67	1843.50	.00	.00	.00	.00
1AUG96	0	0	97.67	1941.17	.00	.00	.00	.00
1SEP96	0	0	88.79	2029.96	.00	.00	.00	.00
1OCT96	0	0	102.11	2132.06	.00	.00	.00	.00
1NOV96	0	0	84.35	2216.41	.00	.00	.00	.00
1DEC96	0	0	84.35	2300.76	.00	.00	.00	.00
1JAN97	0	0	102.11	2402.87	.00	.00	.00	.00
1FEB97	0	0	88.79	2491.66	.00	.00	.00	.00
1MAR97	0	0	93.23	2584.89	.00	.00	.00	.00
1APR97	0	0	97.67	2682.56	.00	.00	.00	.00
1MAY97	0	0	97.67	2780.23	.00	.00	.00	.00
1JUN97	0	0	93.23	2873.46	.00	.00	.00	.00
1JUL97	0	0	222.67	3096.13	.00	.00	.00	.00
1AUG97	0	0	203.31	3299.44	.00	.00	.00	.00
1SEP97	0	0	212.99	3512.43	.00	.00	.00	.00
1OCT97	0	0	222.67	3735.11	.00	.00	.00	.00
1NOV97	0	0	193.63	3928.74	.00	.00	.00	.00
1DEC97	0	0	222.67	4151.41	.00	.00	.00	.00
1JAN98	0	0	212.99	4364.41	.00	.00	.00	.00
1FEB98	0	0	193.63	4558.04	.00	.00	.00	.00
1MAR98	0	0	212.99	4771.03	.00	.00	.00	.00
1APR98	0	0	.00	4771.03	.00	.00	.00	.00
1MAY98	0	0	.00	4771.03	.00	.00	.00	.00
1JUN98	0	0	.00	4771.03	.00	.00	.00	.00
1JUL98	0	0	.00	4771.03	.00	.00	.00	.00
1AUG98	0	0	.00	4771.03	.00	.00	.00	.00
1SEP98	0	0	.00	4771.03	.00	.00	.00	.00
1OCT98	0	0	.00	4771.03	.00	.00	.00	.00
1NOV98	0	0	.00	4771.03	.00	.00	.00	.00
1DEC98	0	0	.00	4771.03	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	80.77	80.77	.00	.00	.00	.00
1NOV94	0	0	76.92	157.69	.00	.00	.00	.00
1DEC94	0	0	73.08	230.77	.00	.00	.00	.00
1JAN95	0	0	76.92	307.69	.00	.00	.00	.00
1FEB95	0	0	73.08	380.76	.00	.00	.00	.00
1MAR95	0	0	88.46	469.23	.00	.00	.00	.00
1APR95	0	0	73.08	542.30	.00	.00	.00	.00
1MAY95	0	0	84.61	626.92	.00	.00	.00	.00
1JUN95	0	0	84.61	711.53	.00	.00	.00	.00
1JUL95	0	0	83.41	794.94	.00	.00	.00	.00
1AUG95	0	0	95.92	890.86	.00	.00	.00	.00
1SEP95	0	0	83.41	974.28	.00	.00	.00	.00
1OCT95	0	0	91.75	1066.03	.00	.00	.00	.00
1NOV95	0	0	83.41	1149.44	.00	.00	.00	.00
1DEC95	0	0	79.24	1228.68	.00	.00	.00	.00
1JAN96	0	0	83.41	1312.09	.00	.00	.00	.00
1FEB96	0	0	83.41	1395.50	.00	.00	.00	.00
1MAR96	0	0	87.58	1483.08	.00	.00	.00	.00
1APR96	0	0	87.58	1570.67	.00	.00	.00	.00
1MAY96	0	0	91.75	1662.42	.00	.00	.00	.00
1JUN96	0	0	83.41	1745.83	.00	.00	.00	.00
1JUL96	0	0	97.67	1843.50	.00	.00	.00	.00
1AUG96	0	0	97.67	1941.17	.00	.00	.00	.00
1SEP96	0	0	88.79	2029.96	.00	.00	.00	.00
1OCT96	0	0	102.11	2132.06	.00	.00	.00	.00
1NOV96	0	0	84.35	2216.41	.00	.00	.00	.00
1DEC96	0	0	84.35	2300.76	.00	.00	.00	.00
1JAN97	0	0	102.11	2402.87	.00	.00	.00	.00
1FEB97	0	0	88.79	2491.66	.00	.00	.00	.00
1MAR97	0	0	93.23	2584.89	.00	.00	.00	.00
1APR97	0	0	97.67	2682.56	.00	.00	.00	.00
1MAY97	0	0	97.67	2780.23	.00	.00	.00	.00
1JUN97	0	0	93.23	2873.46	.00	.00	.00	.00
1JUL97	0	0	222.67	3096.13	.00	.00	.00	.00
1AUG97	0	0	203.31	3299.44	.00	.00	.00	.00
1SEP97	0	0	212.99	3512.43	.00	.00	.00	.00
1OCT97	0	0	222.67	3735.11	.00	.00	.00	.00
1NOV97	0	0	193.63	3928.74	.00	.00	.00	.00
1DEC97	0	0	222.67	4151.41	.00	.00	.00	.00
1JAN98	0	0	212.99	4364.41	.00	.00	.00	.00
1FEB98	0	0	193.63	4558.04	.00	.00	.00	.00
1MAR98	0	0	212.99	4771.03	.00	.00	.00	.00
1APR98	0	0	.00	4771.03	.00	.00	.00	.00
1MAY98	0	0	.00	4771.03	.00	.00	.00	.00
1JUN98	0	0	.00	4771.03	.00	.00	.00	.00
1JUL98	0	0	.00	4771.03	.00	.00	.00	.00
1AUG98	0	0	.00	4771.03	.00	.00	.00	.00
1SEP98	0	0	.00	4771.03	.00	.00	.00	.00
1OCT98	0	0	.00	4771.03	.00	.00	.00	.00
1NOV98	0	0	.00	4771.03	.00	.00	.00	.00
1DEC98	0	0	.00	4771.03	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	46.38	46.38	.00	.00	.00	.00
1NOV94	0	0	44.17	90.55	.00	.00	.00	.00
1DEC94	0	0	41.96	132.52	.00	.00	.00	.00
1JAN95	0	0	44.17	176.69	.00	.00	.00	.00
1FEB95	0	0	41.96	218.66	.00	.00	.00	.00
1MAR95	0	0	50.80	269.46	.00	.00	.00	.00
1APR95	0	0	41.96	311.42	.00	.00	.00	.00
1MAY95	0	0	48.59	360.01	.00	.00	.00	.00
1JUN95	0	0	48.59	408.60	.00	.00	.00	.00
1JUL95	0	0	39.18	447.78	.00	.00	.00	.00
1AUG95	0	0	45.05	492.83	.00	.00	.00	.00
1SEP95	0	0	39.18	532.01	.00	.00	.00	.00
1OCT95	0	0	43.10	575.10	.00	.00	.00	.00
1NOV95	0	0	39.18	614.28	.00	.00	.00	.00
1DEC95	0	0	37.22	651.50	.00	.00	.00	.00
1JAN96	0	0	39.18	690.68	.00	.00	.00	.00
1FEB96	0	0	39.18	729.85	.00	.00	.00	.00
1MAR96	0	0	41.14	770.99	.00	.00	.00	.00
1APR96	0	0	41.14	812.13	.00	.00	.00	.00
1MAY96	0	0	43.10	855.22	.00	.00	.00	.00
1JUN96	0	0	39.18	894.40	.00	.00	.00	.00
1JUL96	0	0	40.32	934.72	.00	.00	.00	.00
1AUG96	0	0	40.32	975.04	.00	.00	.00	.00
1SEP96	0	0	75.39	1050.42	.00	.00	.00	.00
1OCT96	0	0	86.69	1137.12	.00	.00	.00	.00
1NOV96	0	0	71.62	1208.73	.00	.00	.00	.00
1DEC96	0	0	71.62	1280.35	.00	.00	.00	.00
1JAN97	0	0	86.69	1367.04	.00	.00	.00	.00
1FEB97	0	0	75.39	1442.43	.00	.00	.00	.00
1MAR97	0	0	79.16	1521.58	.00	.00	.00	.00
1APR97	0	0	70.00	1591.59	.00	.00	.00	.00
1MAY97	0	0	70.00	1661.59	.00	.00	.00	.00
1JUN97	0	0	66.82	1728.41	.00	.00	.00	.00
1JUL97	0	0	119.18	1847.59	.00	.00	.00	.00
1AUG97	0	0	108.81	1956.40	.00	.00	.00	.00
1SEP97	0	0	113.99	2070.40	.00	.00	.00	.00
1OCT97	0	0	119.18	2189.57	.00	.00	.00	.00
1NOV97	0	0	103.63	2293.20	.00	.00	.00	.00
1DEC97	0	0	119.18	2412.38	.00	.00	.00	.00
1JAN98	0	0	113.99	2526.37	.00	.00	.00	.00
1FEB98	0	0	103.63	2630.01	.00	.00	.00	.00
1MAR98	0	0	113.99	2744.00	.00	.00	.00	.00
1APR98	0	0	.00	2744.00	.00	.00	.00	.00
1MAY98	0	0	.00	2744.00	.00	.00	.00	.00
1JUN98	0	0	.00	2744.00	.00	.00	.00	.00
1JUL98	0	0	.00	2744.00	.00	.00	.00	.00
1AUG98	0	0	.00	2744.00	.00	.00	.00	.00
1SEP98	0	0	.00	2744.00	.00	.00	.00	.00
1OCT98	0	0	.00	2744.00	.00	.00	.00	.00
1NOV98	0	0	.00	2744.00	.00	.00	.00	.00
1DEC98	0	0	.00	2744.00	.00	.00	.00	.00

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REPORT DATE 13APR95 RUN NO. 733  
12:35

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.4.3 LIQUIDS FEED PREP - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	46.38	46.38	.00	.00	.00	.00
1NOV94	0	0	44.17	90.55	.00	.00	.00	.00
1DEC94	0	0	41.96	132.52	.00	.00	.00	.00
1JAN95	0	0	44.17	176.69	.00	.00	.00	.00
1FEB95	0	0	41.96	218.66	.00	.00	.00	.00
1MAR95	0	0	50.80	269.46	.00	.00	.00	.00
1APR95	0	0	41.96	311.42	.00	.00	.00	.00
1MAY95	0	0	48.59	360.01	.00	.00	.00	.00
1JUN95	0	0	48.59	408.60	.00	.00	.00	.00
1JUL95	0	0	39.18	447.78	.00	.00	.00	.00
1AUG95	0	0	45.05	492.83	.00	.00	.00	.00
1SEP95	0	0	39.18	532.01	.00	.00	.00	.00
1OCT95	0	0	43.10	575.10	.00	.00	.00	.00
1NOV95	0	0	39.18	614.28	.00	.00	.00	.00
1DEC95	0	0	37.22	651.50	.00	.00	.00	.00
1JAN96	0	0	39.18	690.68	.00	.00	.00	.00
1FEB96	0	0	39.18	729.85	.00	.00	.00	.00
1MAR96	0	0	41.14	770.99	.00	.00	.00	.00
1APR96	0	0	41.14	812.13	.00	.00	.00	.00
1MAY96	0	0	43.10	855.22	.00	.00	.00	.00
1JUN96	0	0	39.18	894.40	.00	.00	.00	.00
1JUL96	0	0	40.32	934.72	.00	.00	.00	.00
1AUG96	0	0	40.32	975.04	.00	.00	.00	.00
1SEP96	0	0	75.39	1050.42	.00	.00	.00	.00
1OCT96	0	0	86.69	1137.12	.00	.00	.00	.00
1NOV96	0	0	71.62	1208.73	.00	.00	.00	.00
1DEC96	0	0	71.62	1280.35	.00	.00	.00	.00
1JAN97	0	0	86.69	1367.04	.00	.00	.00	.00
1FEB97	0	0	75.39	1442.43	.00	.00	.00	.00
1MAR97	0	0	79.16	1521.58	.00	.00	.00	.00
1APR97	0	0	70.00	1591.59	.00	.00	.00	.00
1MAY97	0	0	70.00	1661.59	.00	.00	.00	.00
1JUN97	0	0	66.82	1728.41	.00	.00	.00	.00
1JUL97	0	0	119.18	1847.59	.00	.00	.00	.00
1AUG97	0	0	108.81	1956.40	.00	.00	.00	.00
1SEP97	0	0	113.99	2070.40	.00	.00	.00	.00
1OCT97	0	0	119.18	2189.57	.00	.00	.00	.00
1NOV97	0	0	103.63	2293.20	.00	.00	.00	.00
1DEC97	0	0	119.18	2412.38	.00	.00	.00	.00
1JAN98	0	0	113.99	2526.37	.00	.00	.00	.00
1FEB98	0	0	103.63	2630.01	.00	.00	.00	.00
1MAR98	0	0	113.99	2744.00	.00	.00	.00	.00
1APR98	0	0	.00	2744.00	.00	.00	.00	.00
1MAY98	0	0	.00	2744.00	.00	.00	.00	.00
1JUN98	0	0	.00	2744.00	.00	.00	.00	.00
1JUL98	0	0	.00	2744.00	.00	.00	.00	.00
1AUG98	0	0	.00	2744.00	.00	.00	.00	.00
1SEP98	0	0	.00	2744.00	.00	.00	.00	.00
1OCT98	0	0	.00	2744.00	.00	.00	.00	.00
1NOV98	0	0	.00	2744.00	.00	.00	.00	.00
1DEC98	0	0	.00	2744.00	.00	.00	.00	.00

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REPORT DATE 13APR95 RUN NO. 734  
12:36

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.5.1 MEO - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ????????????

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	.00	.00	.00	.00	.00	.00
1FEB95	0	0	.00	.00	.00	.00	.00	.00
1MAR95	0	0	.00	.00	.00	.00	.00	.00
1APR95	0	0	.00	.00	.00	.00	.00	.00
1MAY95	0	0	.00	.00	.00	.00	.00	.00
1JUN95	0	0	.00	.00	.00	.00	.00	.00
1JUL95	0	0	.00	.00	.00	.00	.00	.00
1AUG95	0	0	.00	.00	.00	.00	.00	.00
1SEP95	0	0	.00	.00	.00	.00	.00	.00
1OCT95	0	0	.00	.00	.00	.00	.00	.00
1NOV95	0	0	.00	.00	.00	.00	.00	.00
1DEC95	0	0	.00	.00	.00	.00	.00	.00
1JAN96	0	0	.00	.00	.00	.00	.00	.00
1FEB96	0	0	.00	.00	.00	.00	.00	.00
1MAR96	0	0	.00	.00	.00	.00	.00	.00
1APR96	0	0	.00	.00	.00	.00	.00	.00
1MAY96	0	0	.00	.00	.00	.00	.00	.00
1JUN96	0	0	.00	.00	.00	.00	.00	.00
1JUL96	0	0	.00	.00	.00	.00	.00	.00
1AUG96	0	0	.00	.00	.00	.00	.00	.00
1SEP96	0	0	.00	.00	.00	.00	.00	.00
1OCT96	0	0	.00	.00	.00	.00	.00	.00
1NOV96	0	0	.00	.00	.00	.00	.00	.00
1DEC96	0	0	.00	.00	.00	.00	.00	.00
1JAN97	0	0	.00	.00	.00	.00	.00	.00
1FEB97	0	0	.00	.00	.00	.00	.00	.00
1MAR97	0	0	.00	.00	.00	.00	.00	.00
1APR97	0	0	.00	.00	.00	.00	.00	.00
1MAY97	0	0	.00	.00	.00	.00	.00	.00
1JUN97	0	0	.00	.00	.00	.00	.00	.00
1JUL97	0	0	.00	.00	.00	.00	.00	.00
1AUG97	0	0	.00	.00	.00	.00	.00	.00
1SEP97	0	0	.00	.00	.00	.00	.00	.00
1OCT97	0	0	.00	.00	.00	.00	.00	.00
1NOV97	0	0	.00	.00	.00	.00	.00	.00
1DEC97	0	0	.00	.00	.00	.00	.00	.00
1JAN98	0	0	.00	.00	.00	.00	.00	.00
1FEB98	0	0	.00	.00	.00	.00	.00	.00
1MAR98	0	0	.00	.00	.00	.00	.00	.00
1APR98	0	0	.00	.00	.00	.00	.00	.00
1MAY98	0	0	.00	.00	.00	.00	.00	.00
1JUN98	0	0	.00	.00	.00	.00	.00	.00
1JUL98	0	0	.00	.00	.00	.00	.00	.00
1AUG98	0	0	.00	.00	.00	.00	.00	.00
1SEP98	0	0	.00	.00	.00	.00	.00	.00
1OCT98	0	0	.00	.00	.00	.00	.00	.00
1NOV98	0	0	.00	.00	.00	.00	.00	.00
1DEC98	0	0	.00	.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 735  
12:38

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.5.2 MSO - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	314.13	816.40	.00	.00	.00	.00
1NOV94	0	0	304.67	1121.07	.00	.00	.00	.00
1DEC94	0	0	344.00	1465.07	.00	.00	.00	.00
1JAN95	0	0	383.65	1848.72	.00	.00	.00	.00
1FEB95	0	0	404.81	2253.53	.00	.00	.00	.00
1MAR95	0	0	383.46	2636.99	.00	.00	.00	.00
1APR95	0	0	489.55	3126.54	.00	.00	.00	.00
1MAY95	0	0	486.60	3613.14	.00	.00	.00	.00
1JUN95	0	0	347.14	3960.28	.00	.00	.00	.00
1JUL95	0	0	428.89	4389.17	.00	.00	.00	.00
1AUG95	0	0	551.05	4940.22	.00	.00	.00	.00
1SEP95	0	0	482.53	5422.75	.00	.00	.00	.00
1OCT95	0	0	576.84	5999.59	.00	.00	.00	.00
1NOV95	0	0	425.13	6424.71	.00	.00	.00	.00
1DEC95	0	0	293.95	6718.67	.00	.00	.00	.00
1JAN96	0	0	278.74	6997.40	.00	.00	.00	.00
1FEB96	0	0	245.11	7242.51	.00	.00	.00	.00
1MAR96	0	0	225.25	7467.76	.00	.00	.00	.00
1APR96	0	0	154.10	7621.86	.00	.00	.00	.00
1MAY96	0	0	148.55	7770.41	.00	.00	.00	.00
1JUN96	0	0	119.65	7890.06	.00	.00	.00	.00
1JUL96	0	0	104.60	7994.66	.00	.00	.00	.00
1AUG96	0	0	205.61	8200.27	.00	.00	.00	.00
1SEP96	0	0	198.39	8398.66	.00	.00	.00	.00
1OCT96	0	0	231.00	8629.65	.00	.00	.00	.00
1NOV96	0	0	199.38	8829.03	.00	.00	.00	.00
1DEC96	0	0	201.89	9030.92	.00	.00	.00	.00
1JAN97	0	0	240.42	9271.35	.00	.00	.00	.00
1FEB97	0	0	234.38	9505.73	.00	.00	.00	.00
1MAR97	0	0	196.90	9702.63	.00	.00	.00	.00
1APR97	0	0	189.44	9892.07	.00	.00	.00	.00
1MAY97	0	0	213.97	10106.03	.00	.00	.00	.00
1JUN97	0	0	228.65	10334.68	.00	.00	.00	.00
1JUL97	0	0	371.04	10705.72	.00	.00	.00	.00
1AUG97	0	0	382.62	11088.34	.00	.00	.00	.00
1SEP97	0	0	418.84	11507.18	.00	.00	.00	.00
1OCT97	0	0	360.34	11867.53	.00	.00	.00	.00
1NOV97	0	0	270.65	12138.17	.00	.00	.00	.00
1DEC97	0	0	235.88	12374.05	.00	.00	.00	.00
1JAN98	0	0	210.25	12584.30	.00	.00	.00	.00
1FEB98	0	0	161.13	12745.43	.00	.00	.00	.00
1MAR98	0	0	177.25	12922.68	.00	.00	.00	.00
1APR98	0	0	116.52	13039.20	.00	.00	.00	.00
1MAY98	0	0	.00	13039.20	.00	.00	.00	.00
1JUN98	0	0	.00	13039.20	.00	.00	.00	.00
1JUL98	0	0	.00	13039.20	.00	.00	.00	.00
1AUG98	0	0	.00	13039.20	.00	.00	.00	.00
1SEP98	0	0	.00	13039.20	.00	.00	.00	.00
1OCT98	0	0	.00	13039.20	.00	.00	.00	.00
1NOV98	0	0	.00	13039.20	.00	.00	.00	.00
1DEC98	0	0	.00	13039.20	.00	.00	.00	.00

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	314.13	816.40	.00	.00	.00	.00
1NOV94	0	0	304.67	1121.07	.00	.00	.00	.00
1DEC94	0	0	344.00	1465.07	.00	.00	.00	.00
1JAN95	0	0	383.65	1848.72	.00	.00	.00	.00
1FEB95	0	0	404.81	2253.53	.00	.00	.00	.00
1MAR95	0	0	383.46	2636.99	.00	.00	.00	.00
1APR95	0	0	489.55	3126.54	.00	.00	.00	.00
1MAY95	0	0	486.60	3613.14	.00	.00	.00	.00
1JUN95	0	0	347.14	3960.28	.00	.00	.00	.00
1JUL95	0	0	428.89	4389.17	.00	.00	.00	.00
1AUG95	0	0	551.05	4940.22	.00	.00	.00	.00
1SEP95	0	0	482.53	5422.75	.00	.00	.00	.00
1OCT95	0	0	576.84	5999.59	.00	.00	.00	.00
1NOV95	0	0	425.13	6424.71	.00	.00	.00	.00
1DEC95	0	0	293.95	6718.67	.00	.00	.00	.00
1JAN96	0	0	278.74	6997.40	.00	.00	.00	.00
1FEB96	0	0	245.11	7242.51	.00	.00	.00	.00
1MAR96	0	0	225.25	7467.76	.00	.00	.00	.00
1APR96	0	0	154.10	7621.86	.00	.00	.00	.00
1MAY96	0	0	148.55	7770.41	.00	.00	.00	.00
1JUN96	0	0	119.65	7890.06	.00	.00	.00	.00
1JUL96	0	0	104.60	7994.66	.00	.00	.00	.00
1AUG96	0	0	205.61	8200.27	.00	.00	.00	.00
1SEP96	0	0	198.39	8398.66	.00	.00	.00	.00
1OCT96	0	0	231.00	8629.65	.00	.00	.00	.00
1NOV96	0	0	199.38	8829.03	.00	.00	.00	.00
1DEC96	0	0	201.89	9030.92	.00	.00	.00	.00
1JAN97	0	0	240.42	9271.35	.00	.00	.00	.00
1FEB97	0	0	234.38	9505.73	.00	.00	.00	.00
1MAR97	0	0	196.90	9702.63	.00	.00	.00	.00
1APR97	0	0	189.44	9892.07	.00	.00	.00	.00
1MAY97	0	0	213.97	10106.03	.00	.00	.00	.00
1JUN97	0	0	228.65	10334.68	.00	.00	.00	.00
1JUL97	0	0	371.04	10705.72	.00	.00	.00	.00
1AUG97	0	0	382.62	11088.34	.00	.00	.00	.00
1SEP97	0	0	418.84	11507.18	.00	.00	.00	.00
1OCT97	0	0	360.34	11867.53	.00	.00	.00	.00
1NOV97	0	0	270.65	12138.17	.00	.00	.00	.00
1DEC97	0	0	235.88	12374.05	.00	.00	.00	.00
1JAN98	0	0	210.25	12584.30	.00	.00	.00	.00
1FEB98	0	0	161.13	12745.43	.00	.00	.00	.00
1MAR98	0	0	177.25	12922.68	.00	.00	.00	.00
1APR98	0	0	116.52	13039.20	.00	.00	.00	.00
1MAY98	0	0	.00	13039.20	.00	.00	.00	.00
1JUN98	0	0	.00	13039.20	.00	.00	.00	.00
1JUL98	0	0	.00	13039.20	.00	.00	.00	.00
1AUG98	0	0	.00	13039.20	.00	.00	.00	.00
1SEP98	0	0	.00	13039.20	.00	.00	.00	.00
1OCT98	0	0	.00	13039.20	.00	.00	.00	.00
1NOV98	0	0	.00	13039.20	.00	.00	.00	.00
1DEC98	0	0	.00	13039.20	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 737  
12:40

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.5.5 EXPERIMENTAL OFF-GAS - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	29.13	29.13	.00	.00	.00	.00
1NOV94	0	0	27.74	56.87	.00	.00	.00	.00
1DEC94	0	0	26.35	83.23	.00	.00	.00	.00
1JAN95	0	0	27.74	110.97	.00	.00	.00	.00
1FEB95	0	0	26.35	137.32	.00	.00	.00	.00
1MAR95	0	0	31.90	169.23	.00	.00	.00	.00
1APR95	0	0	26.35	195.58	.00	.00	.00	.00
1MAY95	0	0	30.52	226.10	.00	.00	.00	.00
1JUN95	0	0	30.52	256.61	.00	.00	.00	.00
1JUL95	0	0	27.74	284.35	.00	.00	.00	.00
1AUG95	0	0	31.90	316.26	.00	.00	.00	.00
1SEP95	0	0	27.74	344.00	.00	.00	.00	.00
1OCT95	0	0	.00	344.00	.00	.00	.00	.00
1NOV95	0	0	.00	344.00	.00	.00	.00	.00
1DEC95	0	0	.00	344.00	.00	.00	.00	.00
1JAN96	0	0	.00	344.00	.00	.00	.00	.00
1FEB96	0	0	.00	344.00	.00	.00	.00	.00
1MAR96	0	0	.00	344.00	.00	.00	.00	.00
1APR96	0	0	.00	344.00	.00	.00	.00	.00
1MAY96	0	0	.00	344.00	.00	.00	.00	.00
1JUN96	0	0	.00	344.00	.00	.00	.00	.00
1JUL96	0	0	.00	344.00	.00	.00	.00	.00
1AUG96	0	0	.00	344.00	.00	.00	.00	.00
1SEP96	0	0	.00	344.00	.00	.00	.00	.00
1OCT96	0	0	.00	344.00	.00	.00	.00	.00
1NOV96	0	0	.00	344.00	.00	.00	.00	.00
1DEC96	0	0	.00	344.00	.00	.00	.00	.00
1JAN97	0	0	.00	344.00	.00	.00	.00	.00
1FEB97	0	0	.00	344.00	.00	.00	.00	.00
1MAR97	0	0	.00	344.00	.00	.00	.00	.00
1APR97	0	0	.00	344.00	.00	.00	.00	.00
1MAY97	0	0	.00	344.00	.00	.00	.00	.00
1JUN97	0	0	.00	344.00	.00	.00	.00	.00
1JUL97	0	0	.00	344.00	.00	.00	.00	.00
1AUG97	0	0	.00	344.00	.00	.00	.00	.00
1SEP97	0	0	.00	344.00	.00	.00	.00	.00
1OCT97	0	0	56.26	400.26	.00	.00	.00	.00
1NOV97	0	0	48.92	449.18	.00	.00	.00	.00
1DEC97	0	0	56.26	505.45	.00	.00	.00	.00
1JAN98	0	0	53.82	559.26	.00	.00	.00	.00
1FEB98	0	0	48.92	608.18	.00	.00	.00	.00
1MAR98	0	0	53.82	662.00	.00	.00	.00	.00
1APR98	0	0	.00	662.00	.00	.00	.00	.00
1MAY98	0	0	.00	662.00	.00	.00	.00	.00
1JUN98	0	0	.00	662.00	.00	.00	.00	.00
1JUL98	0	0	.00	662.00	.00	.00	.00	.00
1AUG98	0	0	.00	662.00	.00	.00	.00	.00
1SEP98	0	0	.00	662.00	.00	.00	.00	.00
1OCT98	0	0	.00	662.00	.00	.00	.00	.00
1NOV98	0	0	.00	662.00	.00	.00	.00	.00
1DEC98	0	0	.00	662.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 738  
12:41

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.5.5 EXPERIMENTAL OFF-GAS - CENRTC RESOURCE

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	29.13	29.13	.00	.00	.00	.00
1NOV94	0	0	27.74	56.87	.00	.00	.00	.00
1DEC94	0	0	26.35	83.23	.00	.00	.00	.00
1JAN95	0	0	27.74	110.97	.00	.00	.00	.00
1FEB95	0	0	26.35	137.32	.00	.00	.00	.00
1MAR95	0	0	31.90	169.23	.00	.00	.00	.00
1APR95	0	0	26.35	195.58	.00	.00	.00	.00
1MAY95	0	0	30.52	226.10	.00	.00	.00	.00
1JUN95	0	0	30.52	256.61	.00	.00	.00	.00
1JUL95	0	0	27.74	284.35	.00	.00	.00	.00
1AUG95	0	0	31.90	316.26	.00	.00	.00	.00
1SEP95	0	0	27.74	344.00	.00	.00	.00	.00
1OCT95	0	0	.00	344.00	.00	.00	.00	.00
1NOV95	0	0	.00	344.00	.00	.00	.00	.00
1DEC95	0	0	.00	344.00	.00	.00	.00	.00
1JAN96	0	0	.00	344.00	.00	.00	.00	.00
1FEB96	0	0	.00	344.00	.00	.00	.00	.00
1MAR96	0	0	.00	344.00	.00	.00	.00	.00
1APR96	0	0	.00	344.00	.00	.00	.00	.00
1MAY96	0	0	.00	344.00	.00	.00	.00	.00
1JUN96	0	0	.00	344.00	.00	.00	.00	.00
1JUL96	0	0	.00	344.00	.00	.00	.00	.00
1AUG96	0	0	.00	344.00	.00	.00	.00	.00
1SEP96	0	0	.00	344.00	.00	.00	.00	.00
1OCT96	0	0	.00	344.00	.00	.00	.00	.00
1NOV96	0	0	.00	344.00	.00	.00	.00	.00
1DEC96	0	0	.00	344.00	.00	.00	.00	.00
1JAN97	0	0	.00	344.00	.00	.00	.00	.00
1FEB97	0	0	.00	344.00	.00	.00	.00	.00
1MAR97	0	0	.00	344.00	.00	.00	.00	.00
1APR97	0	0	.00	344.00	.00	.00	.00	.00
1MAY97	0	0	.00	344.00	.00	.00	.00	.00
1JUN97	0	0	.00	344.00	.00	.00	.00	.00
1JUL97	0	0	.00	344.00	.00	.00	.00	.00
1AUG97	0	0	.00	344.00	.00	.00	.00	.00
1SEP97	0	0	.00	344.00	.00	.00	.00	.00
1OCT97	0	0	56.26	400.26	.00	.00	.00	.00
1NOV97	0	0	48.92	449.18	.00	.00	.00	.00
1DEC97	0	0	56.26	505.45	.00	.00	.00	.00
1JAN98	0	0	53.82	559.26	.00	.00	.00	.00
1FEB98	0	0	48.92	608.18	.00	.00	.00	.00
1MAR98	0	0	53.82	662.00	.00	.00	.00	.00
1APR98	0	0	.00	662.00	.00	.00	.00	.00
1MAY98	0	0	.00	662.00	.00	.00	.00	.00
1JUN98	0	0	.00	662.00	.00	.00	.00	.00
1JUL98	0	0	.00	662.00	.00	.00	.00	.00
1AUG98	0	0	.00	662.00	.00	.00	.00	.00
1SEP98	0	0	.00	662.00	.00	.00	.00	.00
1OCT98	0	0	.00	662.00	.00	.00	.00	.00
1NOV98	0	0	.00	662.00	.00	.00	.00	.00
1DEC98	0	0	.00	662.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 739  
12:42

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.6.1 PROCESS TRANS & STOR - TOTAL RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	10.64	10.64	.00	.00	.00	.00
1NOV94	0	0	11.06	21.70	.00	.00	.00	.00
1DEC94	0	0	10.50	32.20	.00	.00	.00	.00
1JAN95	0	0	11.06	43.26	.00	.00	.00	.00
1FEB95	0	0	17.06	60.31	.00	.00	.00	.00
1MAR95	0	0	23.48	83.79	.00	.00	.00	.00
1APR95	0	0	19.40	103.18	.00	.00	.00	.00
1MAY95	0	0	22.46	125.64	.00	.00	.00	.00
1JUN95	0	0	22.46	148.10	.00	.00	.00	.00
1JUL95	0	0	9.41	157.51	.00	.00	.00	.00
1AUG95	0	0	10.82	168.33	.00	.00	.00	.00
1SEP95	0	0	9.41	177.75	.00	.00	.00	.00
1OCT95	0	0	10.35	188.10	.00	.00	.00	.00
1NOV95	0	0	9.41	197.51	.00	.00	.00	.00
1DEC95	0	0	8.94	206.45	.00	.00	.00	.00
1JAN96	0	0	9.41	215.86	.00	.00	.00	.00
1FEB96	0	0	16.66	232.52	.00	.00	.00	.00
1MAR96	0	0	19.39	251.92	.00	.00	.00	.00
1APR96	0	0	22.20	274.11	.00	.00	.00	.00
1MAY96	0	0	23.26	297.37	.00	.00	.00	.00
1JUN96	0	0	21.14	318.51	.00	.00	.00	.00
1JUL96	0	0	23.25	341.76	.00	.00	.00	.00
1AUG96	0	0	23.25	365.01	.00	.00	.00	.00
1SEP96	0	0	21.14	386.15	.00	.00	.00	.00
1OCT96	0	0	24.31	410.46	.00	.00	.00	.00
1NOV96	0	0	20.08	430.54	.00	.00	.00	.00
1DEC96	0	0	20.08	450.62	.00	.00	.00	.00
1JAN97	0	0	24.31	474.93	.00	.00	.00	.00
1FEB97	0	0	21.14	496.06	.00	.00	.00	.00
1MAR97	0	0	22.19	518.26	.00	.00	.00	.00
1APR97	0	0	23.25	541.51	.00	.00	.00	.00
1MAY97	0	0	23.25	564.76	.00	.00	.00	.00
1JUN97	0	0	22.19	586.95	.00	.00	.00	.00
1JUL97	0	0	36.31	623.27	.00	.00	.00	.00
1AUG97	0	0	30.35	653.62	.00	.00	.00	.00
1SEP97	0	0	31.80	685.41	.00	.00	.00	.00
1OCT97	0	0	33.24	718.65	.00	.00	.00	.00
1NOV97	0	0	28.91	747.56	.00	.00	.00	.00
1DEC97	0	0	33.24	780.80	.00	.00	.00	.00
1JAN98	0	0	.00	780.80	.00	.00	.00	.00
1FEB98	0	0	.00	780.80	.00	.00	.00	.00
1MAR98	0	0	.00	780.80	.00	.00	.00	.00
1APR98	0	0	.00	780.80	.00	.00	.00	.00
1MAY98	0	0	.00	780.80	.00	.00	.00	.00
1JUN98	0	0	.00	780.80	.00	.00	.00	.00
1JUL98	0	0	.00	780.80	.00	.00	.00	.00
1AUG98	0	0	.00	780.80	.00	.00	.00	.00
1SEP98	0	0	.00	780.80	.00	.00	.00	.00
1OCT98	0	0	.00	780.80	.00	.00	.00	.00
1NOV98	0	0	.00	780.80	.00	.00	.00	.00
1DEC98	0	0	.00	780.80	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 740  
12:42

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.1 PROCESS TRANS & STOR - CENRTC RESOURCE

DATA DATE 10CT94 PAGE NO. 1

PERIOD	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	BEGINNING	NORMAL MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ?????????????? -

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	10.64	10.64	.00	.00	.00	.00
1NOV94	0	0	11.06	21.70	.00	.00	.00	.00
1DEC94	0	0	10.50	32.20	.00	.00	.00	.00
1JAN95	0	0	11.06	43.26	.00	.00	.00	.00
1FEB95	0	0	17.06	60.31	.00	.00	.00	.00
1MAR95	0	0	23.48	83.79	.00	.00	.00	.00
1APR95	0	0	19.40	103.18	.00	.00	.00	.00
1MAY95	0	0	22.46	125.64	.00	.00	.00	.00
1JUN95	0	0	22.46	148.10	.00	.00	.00	.00
1JUL95	0	0	9.41	157.51	.00	.00	.00	.00
1AUG95	0	0	10.82	168.33	.00	.00	.00	.00
1SEP95	0	0	9.41	177.75	.00	.00	.00	.00
1OCT95	0	0	10.35	188.10	.00	.00	.00	.00
1NOV95	0	0	9.41	197.51	.00	.00	.00	.00
1DEC95	0	0	8.94	206.45	.00	.00	.00	.00
1JAN96	0	0	9.41	215.86	.00	.00	.00	.00
1FEB96	0	0	16.66	232.52	.00	.00	.00	.00
1MAR96	0	0	19.39	251.92	.00	.00	.00	.00
1APR96	0	0	22.20	274.11	.00	.00	.00	.00
1MAY96	0	0	23.26	297.37	.00	.00	.00	.00
1JUN96	0	0	21.14	318.51	.00	.00	.00	.00
1JUL96	0	0	23.25	341.76	.00	.00	.00	.00
1AUG96	0	0	23.25	365.01	.00	.00	.00	.00
1SEP96	0	0	21.14	386.15	.00	.00	.00	.00
1OCT96	0	0	24.31	410.46	.00	.00	.00	.00
1NOV96	0	0	20.08	430.54	.00	.00	.00	.00
1DEC96	0	0	20.08	450.62	.00	.00	.00	.00
1JAN97	0	0	24.31	474.93	.00	.00	.00	.00
1FEB97	0	0	21.14	496.06	.00	.00	.00	.00
1MAR97	0	0	22.19	518.26	.00	.00	.00	.00
1APR97	0	0	23.25	541.51	.00	.00	.00	.00
1MAY97	0	0	23.25	564.76	.00	.00	.00	.00
1JUN97	0	0	22.19	586.95	.00	.00	.00	.00
1JUL97	0	0	36.31	623.27	.00	.00	.00	.00
1AUG97	0	0	30.35	653.62	.00	.00	.00	.00
1SEP97	0	0	31.80	685.41	.00	.00	.00	.00
1OCT97	0	0	33.24	718.65	.00	.00	.00	.00
1NOV97	0	0	28.91	747.56	.00	.00	.00	.00
1DEC97	0	0	33.24	780.80	.00	.00	.00	.00
1JAN98	0	0	.00	780.80	.00	.00	.00	.00
1FEB98	0	0	.00	780.80	.00	.00	.00	.00
1MAR98	0	0	.00	780.80	.00	.00	.00	.00
1APR98	0	0	.00	780.80	.00	.00	.00	.00
1MAY98	0	0	.00	780.80	.00	.00	.00	.00
1JUN98	0	0	.00	780.80	.00	.00	.00	.00
1JUL98	0	0	.00	780.80	.00	.00	.00	.00
1AUG98	0	0	.00	780.80	.00	.00	.00	.00
1SEP98	0	0	.00	780.80	.00	.00	.00	.00
1OCT98	0	0	.00	780.80	.00	.00	.00	.00
1NOV98	0	0	.00	780.80	.00	.00	.00	.00
1DEC98	0	0	.00	780.80	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 741

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

12:43

WBS 1.6.2 ANALYTICAL LAB - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE

COST ACCOUNT = ????????????

\*\*\*DATA DATE\*\*\*

1OCT94	0	0	21.15	21.15	.00	.00	.00	.00
1NOV94	0	0	20.15	41.30	.00	.00	.00	.00
1DEC94	0	0	19.14	60.44	.00	.00	.00	.00
1JAN95	0	0	20.15	80.59	.00	.00	.00	.00
1FEB95	0	0	19.14	99.72	.00	.00	.00	.00
1MAR95	0	0	23.17	122.89	.00	.00	.00	.00
1APR95	0	0	19.14	142.03	.00	.00	.00	.00
1MAY95	0	0	22.16	164.19	.00	.00	.00	.00
1JUN95	0	0	22.16	186.35	.00	.00	.00	.00
1JUL95	0	0	20.15	206.50	.00	.00	.00	.00
1AUG95	0	0	68.05	274.55	.00	.00	.00	.00
1SEP95	0	0	57.32	331.87	.00	.00	.00	.00
1OCT95	0	0	63.05	394.92	.00	.00	.00	.00
1NOV95	0	0	57.32	452.24	.00	.00	.00	.00
1DEC95	0	0	54.45	506.70	.00	.00	.00	.00
1JAN96	0	0	57.32	564.02	.00	.00	.00	.00
1FEB96	0	0	57.32	621.34	.00	.00	.00	.00
1MAR96	0	0	60.19	681.52	.00	.00	.00	.00
1APR96	0	0	60.19	741.71	.00	.00	.00	.00
1MAY96	0	0	63.05	804.76	.00	.00	.00	.00
1JUN96	0	0	61.24	866.00	.00	.00	.00	.00
1JUL96	0	0	67.59	933.59	.00	.00	.00	.00
1AUG96	0	0	67.59	1001.19	.00	.00	.00	.00
1SEP96	0	0	61.45	1062.64	.00	.00	.00	.00
1OCT96	0	0	93.55	1156.19	.00	.00	.00	.00
1NOV96	0	0	73.80	1230.00	.00	.00	.00	.00
1DEC96	0	0	73.80	1303.80	.00	.00	.00	.00
1JAN97	0	0	89.34	1393.14	.00	.00	.00	.00
1FEB97	0	0	77.69	1470.83	.00	.00	.00	.00
1MAR97	0	0	81.57	1552.41	.00	.00	.00	.00
1APR97	0	0	85.46	1637.86	.00	.00	.00	.00
1MAY97	0	0	96.56	1734.42	.00	.00	.00	.00
1JUN97	0	0	92.17	1826.59	.00	.00	.00	.00
1JUL97	0	0	100.95	1927.54	.00	.00	.00	.00
1AUG97	0	0	105.02	2032.56	.00	.00	.00	.00
1SEP97	0	0	131.90	2164.46	.00	.00	.00	.00
1OCT97	0	0	121.54	2286.00	.00	.00	.00	.00
1NOV97	0	0	127.59	2413.59	.00	.00	.00	.00
1DEC97	0	0	143.52	2557.11	.00	.00	.00	.00
1JAN98	0	0	105.01	2662.12	.00	.00	.00	.00
1FEB98	0	0	94.37	2756.49	.00	.00	.00	.00
1MAR98	0	0	122.78	2879.27	.00	.00	.00	.00
1APR98	0	0	126.96	3006.23	.00	.00	.00	.00
1MAY98	0	0	5.77	3012.00	.00	.00	.00	.00
1JUN98	0	0	.00	3012.00	.00	.00	.00	.00
1JUL98	0	0	.00	3012.00	.00	.00	.00	.00
1AUG98	0	0	.00	3012.00	.00	.00	.00	.00
1SEP98	0	0	.00	3012.00	.00	.00	.00	.00
1OCT98	0	0	.00	3012.00	.00	.00	.00	.00
1NOV98	0	0	.00	3012.00	.00	.00	.00	.00
1DEC98	0	0	.00	3012.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 742  
12:44

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.2 ANALYTICAL LAB - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	21.15	21.15	.00	.00	.00	.00
1NOV94	0	0	20.15	41.30	.00	.00	.00	.00
1DEC94	0	0	19.14	60.44	.00	.00	.00	.00
1JAN95	0	0	20.15	80.59	.00	.00	.00	.00
1FEB95	0	0	19.14	99.72	.00	.00	.00	.00
1MAR95	0	0	23.17	122.89	.00	.00	.00	.00
1APR95	0	0	19.14	142.03	.00	.00	.00	.00
1MAY95	0	0	22.16	164.19	.00	.00	.00	.00
1JUN95	0	0	22.16	186.35	.00	.00	.00	.00
1JUL95	0	0	20.15	206.50	.00	.00	.00	.00
1AUG95	0	0	68.05	274.55	.00	.00	.00	.00
1SEP95	0	0	57.32	331.87	.00	.00	.00	.00
1OCT95	0	0	63.05	394.92	.00	.00	.00	.00
1NOV95	0	0	57.32	452.24	.00	.00	.00	.00
1DEC95	0	0	54.45	506.70	.00	.00	.00	.00
1JAN96	0	0	57.32	564.02	.00	.00	.00	.00
1FEB96	0	0	57.32	621.34	.00	.00	.00	.00
1MAR96	0	0	60.19	681.52	.00	.00	.00	.00
1APR96	0	0	60.19	741.71	.00	.00	.00	.00
1MAY96	0	0	63.05	804.76	.00	.00	.00	.00
1JUN96	0	0	61.24	866.00	.00	.00	.00	.00
1JUL96	0	0	67.59	933.59	.00	.00	.00	.00
1AUG96	0	0	67.59	1001.19	.00	.00	.00	.00
1SEP96	0	0	61.45	1062.64	.00	.00	.00	.00
1OCT96	0	0	93.55	1156.19	.00	.00	.00	.00
1NOV96	0	0	73.80	1230.00	.00	.00	.00	.00
1DEC96	0	0	73.80	1303.80	.00	.00	.00	.00
1JAN97	0	0	89.34	1393.14	.00	.00	.00	.00
1FEB97	0	0	77.69	1470.83	.00	.00	.00	.00
1MAR97	0	0	81.57	1552.41	.00	.00	.00	.00
1APR97	0	0	85.46	1637.86	.00	.00	.00	.00
1MAY97	0	0	96.56	1734.42	.00	.00	.00	.00
1JUN97	0	0	92.17	1826.59	.00	.00	.00	.00
1JUL97	0	0	100.95	1927.54	.00	.00	.00	.00
1AUG97	0	0	105.02	2032.56	.00	.00	.00	.00
1SEP97	0	0	131.90	2164.46	.00	.00	.00	.00
1OCT97	0	0	121.54	2286.00	.00	.00	.00	.00
1NOV97	0	0	127.59	2413.59	.00	.00	.00	.00
1DEC97	0	0	143.52	2557.11	.00	.00	.00	.00
1JAN98	0	0	105.01	2662.12	.00	.00	.00	.00
1FEB98	0	0	94.37	2756.49	.00	.00	.00	.00
1MAR98	0	0	122.78	2879.27	.00	.00	.00	.00
1APR98	0	0	126.96	3006.23	.00	.00	.00	.00
1MAY98	0	0	5.77	3012.00	.00	.00	.00	.00
1JUN98	0	0	.00	3012.00	.00	.00	.00	.00
1JUL98	0	0	.00	3012.00	.00	.00	.00	.00
1AUG98	0	0	.00	3012.00	.00	.00	.00	.00
1SEP98	0	0	.00	3012.00	.00	.00	.00	.00
1OCT98	0	0	.00	3012.00	.00	.00	.00	.00
1NOV98	0	0	.00	3012.00	.00	.00	.00	.00
1DEC98	0	0	.00	3012.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 743  
12:45

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.3 WATER TREATMENT (WTR) - TOTAL RESOURCE

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ????????????? -								
***DATA DATE***								
1OCT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	37.14	37.14	.00	.00	.00	.00
1FEB95	0	0	35.29	72.43	.00	.00	.00	.00
1MAR95	0	0	42.72	115.15	.00	.00	.00	.00
1APR95	0	0	35.29	150.43	.00	.00	.00	.00
1MAY95	0	0	40.86	191.29	.00	.00	.00	.00
1JUN95	0	0	11.62	202.91	.00	.00	.00	.00
1JUL95	0	0	19.47	222.38	.00	.00	.00	.00
1AUG95	0	0	22.39	244.78	.00	.00	.00	.00
1SEP95	0	0	19.47	264.25	.00	.00	.00	.00
1OCT95	0	0	21.42	285.66	.00	.00	.00	.00
1NOV95	0	0	19.47	305.13	.00	.00	.00	.00
1DEC95	0	0	18.50	323.63	.00	.00	.00	.00
1JAN96	0	0	18.70	342.33	.00	.00	.00	.00
1FEB96	0	0	18.70	361.03	.00	.00	.00	.00
1MAR96	0	0	10.29	371.32	.00	.00	.00	.00
1APR96	0	0	10.29	381.61	.00	.00	.00	.00
1MAY96	0	0	25.92	407.53	.00	.00	.00	.00
1JUN96	0	0	24.51	432.05	.00	.00	.00	.00
1JUL96	0	0	28.11	460.15	.00	.00	.00	.00
1AUG96	0	0	28.11	488.26	.00	.00	.00	.00
1SEP96	0	0	13.31	501.57	.00	.00	.00	.00
1OCT96	0	0	3.00	504.57	.00	.00	.00	.00
1NOV96	0	0	2.87	507.44	.00	.00	.00	.00
1DEC96	0	0	3.15	510.58	.00	.00	.00	.00
1JAN97	0	0	4.22	514.80	.00	.00	.00	.00
1FEB97	0	0	4.01	518.81	.00	.00	.00	.00
1MAR97	0	0	4.63	523.44	.00	.00	.00	.00
1APR97	0	0	21.02	544.46	.00	.00	.00	.00
1MAY97	0	0	20.65	565.10	.00	.00	.00	.00
1JUN97	0	0	19.32	584.43	.00	.00	.00	.00
1JUL97	0	0	87.81	672.24	.00	.00	.00	.00
1AUG97	0	0	79.79	752.04	.00	.00	.00	.00
1SEP97	0	0	83.26	835.30	.00	.00	.00	.00
1OCT97	0	0	88.56	923.85	.00	.00	.00	.00
1NOV97	0	0	79.24	1003.09	.00	.00	.00	.00
1DEC97	0	0	92.99	1096.07	.00	.00	.00	.00
1JAN98	0	0	76.50	1172.57	.00	.00	.00	.00
1FEB98	0	0	72.65	1245.22	.00	.00	.00	.00
1MAR98	0	0	56.34	1301.56	.00	.00	.00	.00
1APR98	0	0	40.00	1341.56	.00	.00	.00	.00
1MAY98	0	0	.00	1341.56	.00	.00	.00	.00
1JUN98	0	0	.00	1341.56	.00	.00	.00	.00
1JUL98	0	0	.00	1341.56	.00	.00	.00	.00
1AUG98	0	0	.00	1341.56	.00	.00	.00	.00
1SEP98	0	0	.00	1341.56	.00	.00	.00	.00
1OCT98	0	0	.00	1341.56	.00	.00	.00	.00
1NOV98	0	0	.00	1341.56	.00	.00	.00	.00
1DEC98	0	0	.00	1341.56	.00	.00	.00	.00

MIXED WASTE MANAGEMENT FACILITY

PRIMAVERA PROJECT PLANNER

MWMF - REV 1.2 REBASELINE 3-15-95

REPORT DATE 13APR95 RUN NO. 744  
12:46

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.3 WATER TREATMENT - CENRTC RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
10CT94	0	0	.00	.00	.00	.00	.00	.00
1NOV94	0	0	.00	.00	.00	.00	.00	.00
1DEC94	0	0	.00	.00	.00	.00	.00	.00
1JAN95	0	0	37.14	37.14	.00	.00	.00	.00
1FEB95	0	0	35.29	72.43	.00	.00	.00	.00
1MAR95	0	0	42.72	115.15	.00	.00	.00	.00
1APR95	0	0	35.29	150.43	.00	.00	.00	.00
1MAY95	0	0	40.86	191.29	.00	.00	.00	.00
1JUN95	0	0	11.62	202.91	.00	.00	.00	.00
1JUL95	0	0	19.47	222.38	.00	.00	.00	.00
1AUG95	0	0	22.39	244.78	.00	.00	.00	.00
1SEP95	0	0	19.47	264.25	.00	.00	.00	.00
1OCT95	0	0	21.42	285.66	.00	.00	.00	.00
1NOV95	0	0	19.47	305.13	.00	.00	.00	.00
1DEC95	0	0	18.50	323.63	.00	.00	.00	.00
1JAN96	0	0	18.70	342.33	.00	.00	.00	.00
1FEB96	0	0	18.70	361.03	.00	.00	.00	.00
1MAR96	0	0	10.29	371.32	.00	.00	.00	.00
1APR96	0	0	10.29	381.61	.00	.00	.00	.00
1MAY96	0	0	25.92	407.53	.00	.00	.00	.00
1JUN96	0	0	24.51	432.05	.00	.00	.00	.00
1JUL96	0	0	28.11	460.15	.00	.00	.00	.00
1AUG96	0	0	28.11	488.26	.00	.00	.00	.00
1SEP96	0	0	13.31	501.57	.00	.00	.00	.00
1OCT96	0	0	3.00	504.57	.00	.00	.00	.00
1NOV96	0	0	2.87	507.44	.00	.00	.00	.00
1DEC96	0	0	3.15	510.58	.00	.00	.00	.00
1JAN97	0	0	4.22	514.80	.00	.00	.00	.00
1FEB97	0	0	4.01	518.81	.00	.00	.00	.00
1MAR97	0	0	4.63	523.44	.00	.00	.00	.00
1APR97	0	0	21.02	544.46	.00	.00	.00	.00
1MAY97	0	0	20.65	565.10	.00	.00	.00	.00
1JUN97	0	0	19.32	584.43	.00	.00	.00	.00
1JUL97	0	0	87.81	672.24	.00	.00	.00	.00
1AUG97	0	0	79.79	752.04	.00	.00	.00	.00
1SEP97	0	0	83.26	835.30	.00	.00	.00	.00
1OCT97	0	0	88.56	923.85	.00	.00	.00	.00
1NOV97	0	0	79.24	1003.09	.00	.00	.00	.00
1DEC97	0	0	92.99	1096.07	.00	.00	.00	.00
1JAN98	0	0	76.50	1172.57	.00	.00	.00	.00
1FEB98	0	0	72.65	1245.22	.00	.00	.00	.00
1MAR98	0	0	56.34	1301.56	.00	.00	.00	.00
1APR98	0	0	40.00	1341.56	.00	.00	.00	.00
1MAY98	0	0	.00	1341.56	.00	.00	.00	.00
1JUN98	0	0	.00	1341.56	.00	.00	.00	.00
1JUL98	0	0	.00	1341.56	.00	.00	.00	.00
1AUG98	0	0	.00	1341.56	.00	.00	.00	.00
1SEP98	0	0	.00	1341.56	.00	.00	.00	.00
1OCT98	0	0	.00	1341.56	.00	.00	.00	.00
1NOV98	0	0	.00	1341.56	.00	.00	.00	.00
1DEC98	0	0	.00	1341.56	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 745  
12:47

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.4 FINAL FORMS (FFM) - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	----AVAILABLE----		----EARLY SCHEDULE----		----LATE SCHEDULE----		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ?????????????? -								
***DATA DATE***								
1OCT94	0	0	54.91	54.91	.00	.00	.00	.00
1NOV94	0	0	63.89	118.79	.00	.00	.00	.00
1DEC94	0	0	72.10	190.89	.00	.00	.00	.00
1JAN95	0	0	82.62	273.50	.00	.00	.00	.00
1FEB95	0	0	81.48	354.98	.00	.00	.00	.00
1MAR95	0	0	126.97	481.95	.00	.00	.00	.00
1APR95	0	0	83.63	565.58	.00	.00	.00	.00
1MAY95	0	0	62.52	628.10	.00	.00	.00	.00
1JUN95	0	0	35.75	663.85	.00	.00	.00	.00
1JUL95	0	0	30.28	694.13	.00	.00	.00	.00
1AUG95	0	0	32.17	726.31	.00	.00	.00	.00
1SEP95	0	0	25.69	752.00	.00	.00	.00	.00
1OCT95	0	0	31.89	783.89	.00	.00	.00	.00
1NOV95	0	0	37.99	821.88	.00	.00	.00	.00
1DEC95	0	0	36.61	858.49	.00	.00	.00	.00
1JAN96	0	0	47.91	906.40	.00	.00	.00	.00
1FEB96	0	0	63.63	970.04	.00	.00	.00	.00
1MAR96	0	0	73.06	1043.10	.00	.00	.00	.00
1APR96	0	0	75.68	1118.78	.00	.00	.00	.00
1MAY96	0	0	78.77	1197.54	.00	.00	.00	.00
1JUN96	0	0	68.54	1266.08	.00	.00	.00	.00
1JUL96	0	0	70.96	1337.04	.00	.00	.00	.00
1AUG96	0	0	66.65	1403.69	.00	.00	.00	.00
1SEP96	0	0	47.71	1451.40	.00	.00	.00	.00
1OCT96	0	0	34.71	1486.11	.00	.00	.00	.00
1NOV96	0	0	29.10	1515.22	.00	.00	.00	.00
1DEC96	0	0	31.06	1546.28	.00	.00	.00	.00
1JAN97	0	0	38.62	1584.90	.00	.00	.00	.00
1FEB97	0	0	35.68	1620.58	.00	.00	.00	.00
1MAR97	0	0	38.62	1659.20	.00	.00	.00	.00
1APR97	0	0	62.21	1721.41	.00	.00	.00	.00
1MAY97	0	0	64.22	1785.63	.00	.00	.00	.00
1JUN97	0	0	62.27	1847.90	.00	.00	.00	.00
1JUL97	0	0	79.53	1927.44	.00	.00	.00	.00
1AUG97	0	0	72.93	2000.36	.00	.00	.00	.00
1SEP97	0	0	75.13	2075.49	.00	.00	.00	.00
1OCT97	0	0	78.17	2153.66	.00	.00	.00	.00
1NOV97	0	0	66.93	2220.59	.00	.00	.00	.00
1DEC97	0	0	74.72	2295.31	.00	.00	.00	.00
1JAN98	0	0	50.89	2346.20	.00	.00	.00	.00
1FEB98	0	0	44.12	2390.32	.00	.00	.00	.00
1MAR98	0	0	47.68	2438.00	.00	.00	.00	.00
1APR98	0	0	.00	2438.00	.00	.00	.00	.00
1MAY98	0	0	.00	2438.00	.00	.00	.00	.00
1JUN98	0	0	.00	2438.00	.00	.00	.00	.00
1JUL98	0	0	.00	2438.00	.00	.00	.00	.00
1AUG98	0	0	.00	2438.00	.00	.00	.00	.00
1SEP98	0	0	.00	2438.00	.00	.00	.00	.00
1OCT98	0	0	.00	2438.00	.00	.00	.00	.00
1NOV98	0	0	.00	2438.00	.00	.00	.00	.00
1DEC98	0	0	.00	2438.00	.00	.00	.00	.00

REPORT DATE 13APR95 RUN NO. 746  
12:47

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 2OCT98

WBS 1.6.4 FINAL FORMS (FFM) - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
COST ACCOUNT = ???????????? -								
***DATA DATE***								
1OCT94	0	0	54.91	54.91	.00	.00	.00	.00
1NOV94	0	0	63.89	118.79	.00	.00	.00	.00
1DEC94	0	0	72.10	190.89	.00	.00	.00	.00
1JAN95	0	0	82.62	273.50	.00	.00	.00	.00
1FEB95	0	0	81.48	354.98	.00	.00	.00	.00
1MAR95	0	0	126.97	481.95	.00	.00	.00	.00
1APR95	0	0	83.63	565.58	.00	.00	.00	.00
1MAY95	0	0	62.52	628.10	.00	.00	.00	.00
1JUN95	0	0	35.75	663.85	.00	.00	.00	.00
1JUL95	0	0	30.28	694.13	.00	.00	.00	.00
1AUG95	0	0	32.17	726.31	.00	.00	.00	.00
1SEP95	0	0	25.69	752.00	.00	.00	.00	.00
1OCT95	0	0	31.89	783.89	.00	.00	.00	.00
1NOV95	0	0	37.99	821.88	.00	.00	.00	.00
1DEC95	0	0	36.61	858.49	.00	.00	.00	.00
1JAN96	0	0	47.91	906.40	.00	.00	.00	.00
1FEB96	0	0	63.63	970.04	.00	.00	.00	.00
1MAR96	0	0	73.06	1043.10	.00	.00	.00	.00
1APR96	0	0	75.68	1118.78	.00	.00	.00	.00
1MAY96	0	0	78.77	1197.54	.00	.00	.00	.00
1JUN96	0	0	68.54	1266.08	.00	.00	.00	.00
1JUL96	0	0	70.96	1337.04	.00	.00	.00	.00
1AUG96	0	0	66.65	1403.69	.00	.00	.00	.00
1SEP96	0	0	47.71	1451.40	.00	.00	.00	.00
1OCT96	0	0	34.71	1486.11	.00	.00	.00	.00
1NOV96	0	0	29.10	1515.22	.00	.00	.00	.00
1DEC96	0	0	31.06	1546.28	.00	.00	.00	.00
1JAN97	0	0	38.62	1584.90	.00	.00	.00	.00
1FEB97	0	0	35.68	1620.58	.00	.00	.00	.00
1MAR97	0	0	38.62	1659.20	.00	.00	.00	.00
1APR97	0	0	62.21	1721.41	.00	.00	.00	.00
1MAY97	0	0	64.22	1785.63	.00	.00	.00	.00
1JUN97	0	0	62.27	1847.90	.00	.00	.00	.00
1JUL97	0	0	79.53	1927.44	.00	.00	.00	.00
1AUG97	0	0	72.93	2000.36	.00	.00	.00	.00
1SEP97	0	0	75.13	2075.49	.00	.00	.00	.00
1OCT97	0	0	78.17	2153.66	.00	.00	.00	.00
1NOV97	0	0	66.93	2220.59	.00	.00	.00	.00
1DEC97	0	0	74.72	2295.31	.00	.00	.00	.00
1JAN98	0	0	50.89	2346.20	.00	.00	.00	.00
1FEB98	0	0	44.12	2390.32	.00	.00	.00	.00
1MAR98	0	0	47.68	2438.00	.00	.00	.00	.00
1APR98	0	0	.00	2438.00	.00	.00	.00	.00
1MAY98	0	0	.00	2438.00	.00	.00	.00	.00
1JUN98	0	0	.00	2438.00	.00	.00	.00	.00
1JUL98	0	0	.00	2438.00	.00	.00	.00	.00
1AUG98	0	0	.00	2438.00	.00	.00	.00	.00
1SEP98	0	0	.00	2438.00	.00	.00	.00	.00
1OCT98	0	0	.00	2438.00	.00	.00	.00	.00
1NOV98	0	0	.00	2438.00	.00	.00	.00	.00
1DEC98	0	0	.00	2438.00	.00	.00	.00	.00

MIXED WASTE MANAGEMENT FACILITY

PRIMAVERA PROJECT PLANNER

MWMF - REV 1.2 REBASELINE 3-15-95

REPORT DATE 13APR95 RUN NO. 747  
12:49

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.5 SUPERVISORY I&C - TOTAL RESOURCES

DATA DATE 10CT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		-----EARLY SCHEDULE-----		-----LATE SCHEDULE-----		---TARGET 1 SCHEDULE---		
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE	
	EE	- ELEC ENGR							
UNIT OF MEASURE = MD									
***DATA DATE***									
1OCT94	0	0	45.73	519.47	.00	.00	.00	.00	
1NOV94	0	0	43.55	563.02	.00	.00	.00	.00	
1DEC94	0	0	41.37	604.39	.00	.00	.00	.00	
1JAN95	0	0	43.55	647.94	.00	.00	.00	.00	
1FEB95	0	0	41.37	689.31	.00	.00	.00	.00	
1MAR95	0	0	50.08	739.39	.00	.00	.00	.00	
1APR95	0	0	43.69	783.08	.00	.00	.00	.00	
1MAY95	0	0	50.59	833.67	.00	.00	.00	.00	
1JUN95	0	0	42.47	876.14	.00	.00	.00	.00	
1JUL95	0	0	38.31	914.46	.00	.00	.00	.00	
1AUG95	0	0	44.06	958.52	.00	.00	.00	.00	
1SEP95	0	0	38.31	996.84	.00	.00	.00	.00	

MIXED WASTE MANAGEMENT FACILITY

PRIMAVERA PROJECT PLANNER

MWMF - REV 1.2 REBASELINE 3-15-95

REPORT DATE 13APR95 RUN NO. 748  
12:49

TABULAR RESOURCE REPORT-MONTHLY

START DATE 1JUN93 FIN DATE 20CT98

WBS 1.6.5 SUPERVISORY I&C - CENRTC RESOURCES

DATA DATE 1OCT94 PAGE NO. 1

PERIOD BEGINNING	---AVAILABLE---		---EARLY SCHEDULE---		---LATE SCHEDULE---		---TARGET 1 SCHEDULE---	
	NORMAL	MAXIMUM	USAGE	CUMULATIVE	USAGE	CUMULATIVE	USAGE	CUMULATIVE
	EE	- ELEC ENGR						
UNIT OF MEASURE = MD								
***DATA DATE***								
1OCT94	0	0	45.73	519.47	.00	.00	.00	.00
1NOV94	0	0	43.55	563.02	.00	.00	.00	.00
1DEC94	0	0	41.37	604.39	.00	.00	.00	.00
1JAN95	0	0	43.55	647.94	.00	.00	.00	.00
1FEB95	0	0	41.37	689.31	.00	.00	.00	.00
1MAR95	0	0	50.08	739.39	.00	.00	.00	.00
1APR95	0	0	43.69	783.08	.00	.00	.00	.00
1MAY95	0	0	50.59	833.67	.00	.00	.00	.00
1JUN95	0	0	42.47	876.14	.00	.00	.00	.00
1JUL95	0	0	38.31	914.46	.00	.00	.00	.00
1AUG95	0	0	44.06	958.52	.00	.00	.00	.00
1SEP95	0	0	38.31	996.84	.00	.00	.00	.00

## **Appendix A**

### **Revision 1.2 Guidance Documents (DOE, LLNL)**



Department of Energy  
San Francisco Operations Office  
1301 Clay Street  
Oakland, California 94612-5208

**SEP 26 1994**

Mr. William H. Huddleston  
Project Manager  
Decontamination and Waste Treatment Facility (DWTF) Project  
Lawrence Livermore National Laboratory  
P.O. Box 808, L-621  
Livermore, CA 94550

Mr. Ronald D. Streit  
Project Manager  
Mixed Waste Management Facility  
Lawrence Livermore National Laboratory  
P.O. Box 808, L-590  
Livermore, CA 94550

**RE: Incorporation of the MWMF into the DWTF Site Plan and Option B**

Dear Mr. Huddleston and Mr. Streit:

This letter authorizes LLNL to initiate the planning and design activities associated with the incorporation of the facility to house the MWMF into the DWTF site plan. In addition, all planning and design activities associated with the B-494 Upgrade should be abandoned.

It is of highest priority to maximize the cost savings associated with these projects. A detailed MWMF/DWTF commonality assessment should be conducted and all potential cost savings should be identified to DOE, including the common areas considered unfavorable by LLNL. The MWMF should be an austere facility capable of housing two primary technologies for demonstration with expansion capability for one additional technology to potentially be constructed at a later date.

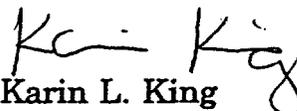
LLNL should proceed with the Alternative Design Review (ADR) Phase 5 and produce a revised baseline for DWTF utilizing Option B and integrating the facility to house the MWMF. A final scope for Option B should be agreed upon by DOE after LLNL completes the MWMF/DWTF commonality assessment, prior to September 30, 1994. The revised baselines for DWTF and MWMF should be submitted to DOE/OAK by COB, November 4, 1994 in preparation for EM-30 validation (DWTF Baseline only) during the week of December 5, 1994.

Finally, we are all working against an ambitious schedule which will require diligent work by LLNL and DOE. If there are any questions or concerns regarding the above, please contact us as soon as possible.

Sincerely,



Vern L. Anderson  
DWTF Project Manager



Karin L. King  
MWMF Project Manager

cc: H. Joma, DOE/OAK  
B. Pankhurst, DOE/OAK  
R. Scott, DOE/OAK

94W-373/5480.b.8



Department of Energy  
San Francisco Operations Office  
1301 Clay Street  
Oakland, California 94612-5208

**SEP 26 1994**

Mr. William H. Huddleston  
Project Manager  
Decontamination and Waste Treatment Facility (DWTF) Project  
Lawrence Livermore National Laboratory  
P.O. Box 808, L-621  
Livermore, CA 94550

Mr. Ronald D. Streit  
Project Manager  
Mixed Waste Management Facility  
Lawrence Livermore National Laboratory  
P.O. Box 808, L-590  
Livermore, CA 94550

**RE: Incorporation of the MWMF into the DWTF Site Plan and Option B**

Dear Mr. Huddleston and Mr. Streit:

This letter authorizes LLNL to initiate the planning and design activities associated with the incorporation of the facility to house the MWMF into the DWTF site plan. In addition, all planning and design activities associated with the B-494 Upgrade should be abandoned.

It is of highest priority to maximize the cost savings associated with these projects. A detailed MWMF/DWTF commonality assessment should be conducted and all potential cost savings should be identified to DOE, including the common areas considered unfavorable by LLNL. The MWMF should be an austere facility capable of housing two primary technologies for demonstration with expansion capability for one additional technology to potentially be constructed at a later date.

LLNL should proceed with the Alternative Design Review (ADR) Phase 5 and produce a revised baseline for DWTF utilizing Option B and integrating the facility to house the MWMF. A final scope for Option B should be agreed upon by DOE after LLNL completes the MWMF/DWTF commonality assessment, prior to September 30, 1994. The revised baselines for DWTF and MWMF should be submitted to DOE/OAK by COB, November 4, 1994 in preparation for EM-30 validation (DWTF Baseline only) during the week of December 5, 1994.

Interdepartmental letterhead

Mail Station L - 437

Ext: 2-7045

MIXED WASTE MANAGEMENT FACILITY

January 10, 1995

MWMMF 95-131

TO: Cost Account Managers, Pls, PEs  
FROM: Ronald Streit  
SUBJECT: Guidance for Rev. 1.2 Rebaseline

---

### **Introduction**

As you are all aware, the MWMMF Project has gone through a number of significant changes over the past four months including changing from the Bldg. 494 facility to a new Bldg. 695, merging functions with DWTF, rescoping specific activities, and schedule adjustments to accommodate the anticipated DOE funding profile. As a result of these changes, it is appropriate to issue an updated project baseline reflecting the new technical basis, cost, and schedule. However, since we will be engaged in a bottom-up estimate at the conclusion of the PDR, this will be a less formal rebaseline using previous cost estimates. It is anticipated that this revised baseline will be similar in depth and volume to the FY95 Plan.

This is not a "bottom-up" estimate. The cost basis will use the CDR and Rev. 1 Baseline information previously validated. However, where there are significant changes, there must be adequate back-up material to justify cost variances to an independent review. Hardware costs will be based largely on CDR information and the schedule will reflect the "Integrated Project Schedule" in the FY95 Plan. Major changes will be limited to schedule and scope adjustments to match the spending guidance provided.

### **Rebaseline Planning Guidance**

We have discussed a number of "guidance's" over the last year, however, the mission of our project remains...

...to develop a National Testbed for the demonstration of technologies which are alternative to incineration for the treatment of organic matrix, low-level mixed waste. In addition, we will design and activate systems which can be efficiently

transitioned to treatment applications once successful demonstration has been achieved. The MWMF will be a fully integrated<sup>1</sup> pilot-scale facility which will...

- Bridge bench scale demonstrated technologies to full scale deployment
- Provide a model for design, construction, permitting, and operation of mixed waste treatment facilities
- Generate data for full scale deployment
- Involve other DOE sites, California and National environmental agencies, industrial partners, and the community in both the design and operation.

However, due to budget limitations and integration with DWTF, there will be modifications as to how we will meet these mission objectives. The first priority is to ensure that the Project survives with essential functions intact, and that there is a facility to house it. In priority order, the following guidance should be observed;

- MWMF Project priority will be given to the completion of DWTF Phase 1 and 2. These phases are for the construction of utilities and facility (building 695) for the MWMF. If this slips, it will have significant impact on all subsequent systems requiring a facility for staging and installation.
- Permitting Activities, CEQA, RD&D, NEPA, etc., must be completed to ensure that facility construction and operations can proceed as planned.
- Focus on meeting the essential elements of the initial demonstration. As requested by DOE, this is to be an austere facility given the extremely tight fiscal constraints in which the DOE is required to operate. This may mean that the full system capability gets deferred beyond the MWMF "Project" completion, however, with the skeleton system in place, future additions are more readily achievable.
- Leave valuable "hooks" in for future growth options. Where there is not sufficient funding for full implementation, the design should not preclude growth to expand the capabilities. Valves, piping, and manifolds may be reasonably inexpensive at this junction, whereas future addition of these components in a contaminated system may be significantly more costly.
- Consider engineering and construction costs, operational costs, and technical risk when selecting final design alternatives. The design should be a balance between these elements.

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<sup>1</sup> Fully integrated refers to the full complement of functions from receiving to effluent management. A facility can be austere and still maintain the full integration. Based on the co-location of MWMF and DWTF, some of these functions will be under the responsibility of operations.

- Technology priorities will be as follows; MSO, Feed Preparation, Final Forms, MEO, Water Treatment. Support systems, such as Analytical Lab, Instrumentation and Controls, Supervisory I&C, Process Transport and Storage, etc., will prioritize accordingly the technology priorities.
- Level of automation should be limited for initial operations consistent with the Laboratory goals of waste reduction and minimum worker exposure. More advanced automation should not be precluded for future operations.

As with all projects, there are constraints which dictate how the project will proceed. The DOE has severe fiscal constraints imposed on them due to the recently announced "Realignment" discussed by Secretary O'Leary, 12/94. These constraints affect both the FY96 budget and overall budget availability. Further, it is unreasonable to let the project end date slide without bound. Based on these constraints, the following schedule and funding constraints must be met;

- The project will be completed in FY98, following the same schedule shown in the FY95 Plan.
- FY96 Funding is limited to \$15.3M new BA.
- Total Project Funding is to be kept under \$60M including Management Reserve, schedule extension, and escalation.
- Funding for FY97 and FY98 should be kept somewhat stable at about \$13M per year.

Table 1 delineates the budget guidance for completing this Project Rebaseline. This is only guidance and should be used as such. It provides for a budget meeting the constraints as described above, while still maintaining funding to primary program elements. However, as shown in the comments column, there are impacts in how the work will be spread over the duration of the project and as to when major procurements can be completed. In general, the total budget for the Level 3 elements are not significantly (<15%) different from the CDR estimate, with the exception of deleted elements and those identified as having reduced scope.

To accomplish this rebaseline in time for the FY97 Validation meeting in early March 1995, we will need to have the estimates finalized by the first week of February. The following schedule must be followed:

• Review and revise cost and schedule inputs to John Murphy for inputting to Primavera	Jan 18
• John to update Primavera and distribute draft to responsible individuals (RIs)	Jan 23
• RIs review draft schedule and budget relative to guidance and make changes as appropriate	Jan 27
• Budget and Schedule reviewed by Management Team	Feb 6
• Budget and Schedule finalized for Rebaseline	Feb 10

Remember, this is not a "bottom-up" estimate and should use the CDR/Rev. 1 as the cost basis. However, where there are significant changes, there must be adequate back-up material to justify cost variances to an independent review. Where schedule slip is the prime driver for cost escalation, your efforts should be directed at reducing this impact by staging the design and fabrication/purchase effort. In doing so, uncommitted manpower and resources can be focused on the activities which need additional engineering support to meet schedule and budget concerns. It is critical that we work as a Project team to meet these new goals. The PEs will act as "the broker" in sorting out manpower issues across WBS elements.

### Preparation of Document

Each individual responsible of a WBS element should review the attached guidance's and prepare a revision to their approved KD-1 Baseline (DOE Rev. 1) as appropriate. This will require integrating the schedule and cost through Primavera as completed previously, however focusing on the desired funding restrictions. As with the FY95 Plan, we will use a "1-page" format for reporting this rebaseline effort with the following major headings;

**Task Description:** This will largely be taken directly from the FY95 Plan with modifications as required to meet guidance provided. Significant changes here will require an update of the WBS dictionary. This will be completed subsequent to the rebaseline effort.

**Changes From Previous Baseline:** This section will be a discussion of how the WBS element has been modified to meet the scope, schedule and cost guidance provided. Specific reference to cost savings for deleted items or items slipped for the purpose of meeting schedule should be pointed out. Include cost and schedule "delta" estimates in this section. This section should be a few sentences (taken from the guidance attached), and specific bullets on the details of the changes.

**Funding Profile:** Using the KD-1 Revised Baseline, plus the input derived from Primavera, layout to the best of your ability the expected cost by FY. Show both the unescalated profile, without management reserve, and on a separate line indicate management reserve (Note: Management reserve was referred to as

Contingency in previous estimates). The MR should use the same rules and information as developed in the CDR. The following format will be used:

	FY93	FY94	FY95	FY96	FY97	FY98
Cost Plan						
Management Reserve						

**Major Milestones:** List here the plan completion dates for the major milestones. You should limit yourself to 6 items for the entire project. Examples include;

Milestone	Date
Complete Conceptual Design KD-1	4/94 6/94
Complete System Preliminary Design (this should be for your specific system, not Project)	x/95
Complete Final Design	x/96
Major Procurements Complete	x/xx
Complete Installation and Testing	x/xx

FILE DATE: 1/08/95

### MWMF Budget/Schedule Planning Guidance

FILE DESCRIPTION: basis for Rev 1.2, with FY96 @ \$15.3M

NOTES: \* Taken from file "40503 budg scen, base" from CDR, RP: A, Throop; Doc. Rev. Date: 1/09/95, revised R. Street

#	Actual FY93	Actual FY94	Plan FY95	FY96	FY97	FY98	Level 3 TOTAL	Comments	CDR	
									Level 2 TOTAL	Rev. 1 Level 3 TOTAL
1.1	0	2336	1097	910	1225	1475				
1.1.1	0	106	34	30	30	30	230	Level of effort support		338
1.1.2	0	341	20	0	70	0	431	FSAR COMPLETE, add'l funds for FSAR support		303
1.1.3	0	0	0	0	0	0	0			442
1.1.4	0	136	182	150	150	150	748	Level of effort support, min staff		426
1.1.5	0	195	84	115	123	101	618	Level of effort support, min staff		1989
1.1.6	0	158	184	188	445	645	1461	MR @ 16% of uncoated OPEX		957
1.1.7	0	12	96	100	100	100	408	Level of effort support, min staff		569
1.2	483	1757	69	500	2100	3300				2049
1.2.1	0	483	0	0	0	0	2240	Complete, expended costs		2472
1.2.2	0	0	69	300	900	900	2169	Cost savings realized with DWTF/HWM integration		2049
1.2.3	0	0	0	200	1200	2400	3900	Cost savings realized with DWTF/HWM integration		4040
1.3	0	593	2675	3257	2703	2044				2219
1.3.1	0	170	856	800	800	450	3076	Level of effort support, min staff		2782
1.3.2	0	317	486	400	400	400	1603	MR @ 16% of uncoated CENRTC		7816
1.3.3	0	106	328	300	300	300	1334	Level of effort support, min staff		1081
1.4	0	330	1519	3250	1500	950				447
1.4.1	0	30	175	50	50	50	355	Cost savings realized with DWTF/HWM integration		490
1.4.2	0	158	954	2500	1100	600	5312	Small scope reduction, purchases to correlate to funding profile		5764
1.4.3	0	142	380	700	350	300	1882	Small scope reduction, purchases to correlate to funding profile		2047
1.5	0	1384	3609	4064	2700	2050				5722
1.5.1	0	717	1023	1300	1200	1200	5540	Distribute funding uniformly, correlate purchases		6036
1.5.2	0	438	2428	2764	1400	700	7730	Initial technology focus		7983
1.5.3	0	98	0	0	0	0	98	Deleted, expended costs		2825
1.5.4	0	23	0	0	0	0	23	Deleted, expended costs		1106
1.5.5	0	108	158	0	150	416	416	Significant reduction, focus on future expansion		691
1.6	0	937	1325	2120	1720	1335				722
1.6.1	0	26	89	170	120	85	490	Scope reduction, purchases to correlate to funding profile		762
1.6.2	0	36	140	500	500	350	1526	Scope increase for merge of functions with DWTF req't.		1316
1.6.3	0	32	126	300	300	200	958	Cost savings realized with DWTF/HWM integration		1517
1.6.4	0	366	399	500	300	300	1865	Initial technology focus, maintain constant funding profile		1843
1.6.5	0	477	571	650	500	400	2598	Scope increase for merge of functions with DWTF req't.		2657
<b>OPEX SUBTOTAL</b>	<b>483</b>	<b>4252</b>	<b>930</b>	<b>1360</b>	<b>3238</b>	<b>4675</b>	<b>14824</b>	w/ management reserve @ 16% of uncoated OPEX funds		<b>13649</b>
<b>CENRTC SUBTOTAL</b>	<b>0</b>	<b>3085</b>	<b>9384</b>	<b>12741</b>	<b>8723</b>	<b>6479</b>	<b>40392</b>	w/ management reserve @ 16% of uncoated CENRTC funds		<b>46472</b>
<b>Unescalated w/ LDOR</b>	<b>483</b>	<b>7337</b>	<b>10294</b>	<b>14101</b>	<b>11948</b>	<b>11163</b>	<b>56316</b>			<b>60021</b>
Annual Esc. Rate	0.000	0.000	0.000	0.030	0.031	0.030				
Direct Esc. Factor	1.000	1.000	1.000	1.030	1.031	1.030				
Comp'd Esc. Factor (net)	1.000	1.000	1.000	1.030	1.031	1.030				
LDORCE (unesc)	0	342	291	764	523	389	2310	<= 6% of CE (calc)		60021
Unesc Profile (Approx. Goal =>)	483	7679	10585	14865	12471	11542	57826			57338
Escalation \$K	0	0	0	448	772	1083	2301			2743
<b>Escalated w/ LDOR</b>	<b>483</b>	<b>7679</b>	<b>10585</b>	<b>15311</b>	<b>13244</b>	<b>12625</b>	<b>59827</b>			<b>62764</b>
<b>Escalated Cumulative</b>	<b>483</b>	<b>8162</b>	<b>18747</b>	<b>34059</b>	<b>47302</b>	<b>59827</b>				<b>60557</b>

# indicates OPEX (O) or CENRTC (C) funding, for FY95 and after

## Specific Guidance

1.1.1 **Quality Assurance:** Level of effort funded activity. Majority of QA activities have been reprogrammed to CENRTC.

CDR Budget Estimate	\$338K
Rev. 1 Budget Estimate	\$104K
Rev. 1.2 Budget Guidance	\$230K

1.1.2 **PSAR:** Activity complete in FY95. Although the FSAR will be funded from DWTF budget, some additional funding has been set aside in FY97 for FSAR support as required.

CDR Budget Estimate	\$442K
Rev. 1 Budget Estimate	\$303K
Rev. 1.2 Budget Guidance	\$431K

1.1.3 **Environmental Documentation:** Significant effort completed in FY94-95. Budget minimal in FY96-97 for support of essential permitting activities, however, is increased in FY98 during activation. Costs to be born by project (CENRTC) rather than PARAG as previously budgeted.

CDR Budget Estimate	\$412K
Rev. 1 Budget Estimate	\$186K
Rev. 1.2 Budget Guidance	\$427K

1.1.4 **ES&H:** Level of effort funded activity, approximately 1 FTE. Majority of ES&H is in support of teams assigned to support MWMF from HC, etc. Cost increase relative to CDR is a result of schedule slip.

CDR Budget Estimate	\$426K
Rev. 1 Budget Estimate	\$464K
Rev. 1.2 Budget Guidance	\$748K

1.1.5 **Program Support:** Management functions covered under this element will be maintained at a minimum. Certain functions previously covered on this account (such as Technology Transfer, i.e., Maynard Holiday) will be transferred to more appropriate accounts. We will continue to use this account for covering very well defined tasks in technical support for which an appropriate CENRTC account cannot be charged (e.g., Water Treatment Trade Study). However these will be of limited duration and are expected to decrease as the project proceeds. Cost increase relative to CDR is a result of schedule slip.

CDR Budget Estimate	\$1989K
Rev. 1 Budget Estimate	\$2172K
Rev. 1.2 Budget Guidance	\$2561K (Add'l funding, \$100k/yr will be maintained for Technical Support)

**1.1.6 Public Participation:** Public Participation will continue to support public interactions including National Review Panel, public meetings, and newsletters. However, for Rev. 1.2, the general Technology Transfer, previously covered under Management, will be transferred to this element. This will entail approximately 15% of Maynard Holiday's (~\$30k/yr.) time plus some additional travel costs (~\$8k/yr). The budget will be maintained at \$100k/yr.

CDR Budget Estimate	\$569K
Rev. 1 Budget Estimate	\$570K
Rev. 1.2 Budget Guidance	\$408K

**1.2.1 Conceptual Design:** This is a completed element. All cost accounts have been closed.

**1.2.2 / 1.2.3 Plant Start-up and Activation:** Scope/budget of these elements will be reduced by the use of HWM operations, procedures and staff for initial start-up and activation. Additional cost will be saved by delaying significant activities to FY97.

CDR Budget Estimate	\$6732K
Rev. 1 Budget Estimate	\$6348K
Rev. 1.2 Budget Guidance	\$5969K

**1.3.1 / 1.3.2 / 1.3.3 Project Management / Project Control / Technical Systems Integration:** Management functions covered under this element are largely level of effort and should be maintained at a minimum. Since the CDR, a number on additional tasks have been assigned to these elements (such as QA and facility interface). Cost increase relative to CDR is a result of assigned scope changes and schedule slip.

CDR Budget Estimate	\$4016K
Rev. 1 Budget Estimate	\$5275K
Rev. 1.2 Budget Guidance	\$6413K

**1.4.1 Receiving and Shipping:** This area will be under the lead of HWM. MWMMF will provide to HWM requirements for this function as now envisioned. HWM will evaluate these relative to the proposed operations plan for DWTF and provide a plan to MWMMF as to how the "essential" requirements will be met. For instance, while it may have been desirable to use the receiving area for some short term storage, available storage areas within DWTF should mitigate this need. MWMMF should plan requisitions such that waste shipment will be received directly into MWMMF with a minimal of staging. This is similar to that currently envisioned for

HWM operations in DWTF. The MWMF WBS element will be reduced to cover interface support. All hardware and design aspects will be covered by HWM operations and/or DWTF. Significant area reduction for the Receiving and Shipping are should be considered.

Lead Individual:	Rod Hollister	DWTF
Support Individual:	Paul Densley	MWMF

CDR Budget Estimate	\$447K
Rev. 1 Budget Estimate	\$490K
Rev. 1.2 Budget Guidance	\$355K

**1.4.2 / 1.4.3 Feed Preparation/Repackaging:** This area will be under the lead of MWMF for initial operation and transitioned to HWM upon activation of the remainder of the DWTF complex. MWMF will require a feed preparation capability for initial operations prior to completion of DWTF Project Phases 3 and 4. Additionally, many of the repackaging requirements envisioned in the Solid Waste Processing Building (DWTF) will require similar functionality. For initial operations, the feed preparation functions should be focused on meeting the critical requirements of MWMF primary process systems; e.g., preparing feed of process demonstrations, acquire sufficient data to ensure that process evaluations can be completed, and to comply with all environment, health and safety requirements. Further, it should not preclude providing the solid waste repackaging functions for HWM should that requirement be integrated into future operations. Technology demonstrations in this element should be consistent with meeting MWMF solid and liquid waste processing needs however, should not limit the repackaging functions required by HWM. While the base technology for solid sorting will be based on tele-robotic operation, it should not prevent manned operation should it be required. Where costs are comparatively low, the design should not preclude future upgrade for autonomous operations, however, these should not be the baseline for initial operations. Further, where anticipated HWM capabilities will be available in FY98, the MWMF design shall not duplicate available capability. As such, it may be possible to requisition feed from HWM which has been prefiltered or segregated such that additional processing in MWMF is minimized. After the initial demonstrations, and once the DWTF complex is brought on line, it is expected that the operations in Feed Preparation will be transitioned to HWM with the exception of new technologies to be demonstrated.

Lead Individual:	Scott Couture	MWMF
Support Individual:	Collin Jones	DWTF

**Decontamination:** This area will be under the lead of DWTF. The decontamination function will provide for the needs of both HWM and MWMF in building 695. During initial operations, prior to the activation of the remainder of the DWTF complex, the decontamination function in B695 will be largely in support of MWMF operations. However, as additional functions are integrated into this complex, the decontamination element will provide for the more general needs of the HWM

operations. Because of the initial linkage to MWMF, key design support will be provided through the MWMF project.

Lead Individual:	Scott Kidd	DWTF
Support Individual:	Scott Couture	MWMF

CDR Budget Estimate	\$7811K*
Rev. 1 Budget Estimate	\$7939K*
Rev. 1.2 Budget Guidance	\$7194K*

\* includes feed preparation and decontamination

**1.5.1 Mediated Electrochemical Oxidation:** This is a key process of the MWMF demonstrations with the budget being maintained at near CDR estimate. Scope (cost) reductions, if required, should focus on deletion of elements of scope which are lower in "pay-off" or are more technical risk (requiring additional engineering development or causing other elements, e.g., feed preparation, to be more costly). For instance, consider delaying solid feed as a feed stream for initial operations. In such case, "hooks" should be included such that future incorporation will not require major system redesign.

CDR Budget Estimate	\$5722K
Rev. 1 Budget Estimate	\$6036K
Rev. 1.2 Budget Guidance	\$5540K

**1.5.2 Molten Salt Oxidation:** This is a key process of the MWMF demonstrations with the budget being maintained at near CDR estimate. Scope (cost) reductions, if required, should focus on deletion of elements of scope which are lower in "pay-off" or are more technical risk (requiring additional engineering development or causing other elements, e.g., feed preparation, to be more costly).

CDR Budget Estimate	\$7983K
Rev. 1 Budget Estimate	\$8263K
Rev. 1.2 Budget Guidance	\$7730K

**1.5.5 Experimental Offgas:** Due to the indirect application to the facility demonstration mission, this element will be significantly down-scoped. For FY95, funding is maintained at the Plan level to complete key engineering development and preliminary design. However, additional FY95 design will be focused on providing "hooks" in the process off-gas systems for potential future integration of experimental off-gas systems. Funding for FY96 and 97 is reduced to zero. Funding in FY98 is restored to a moderate level to address potential issues which may evolve with the primary process systems relative to process off-gas systems not commercially available.

CDR Budget Estimate	\$691K
Rev. 1 Budget Estimate	\$691K
Rev. 1.2 Budget Guidance	\$416K

**1.6.1 Process Transport and Storage:** As a result of the co-location with HWM operations, the scope of this element will be reduced to the extent possible. Efforts should be focused on meeting the requirements of initial operations with the potential for future upgrading for additional features.

CDR Budget Estimate       \$722K  
Rev. 1 Budget Estimate   \$762K  
Rev. 1.2 Budget Guidance \$490K

**1.6.2 Process Evaluation** (previously Analytical Laboratory): This area will be under the lead of MWMF. The goal of this function will be modified to provide only critical process support to MWMF and DWTF for those analyses which it is not practical or cost effective to send out of the MWMF/DWTF complex. Specifically, if analysis is required within the typical work day and cannot be contracted to existing analytical laboratories effectively, the process evaluation element will provide support. Process evaluation will also provide support for receiving, handling, storing, and arranging for analysis of all samples. Equipment and facility design should support this baseline. Outside laboratory support should be evaluated (both within LLNL and commercial) to determine the effectiveness of analysis from a turn-around and cost perspective. Only minimal new analytical equipment should be considered for this facility.

Lead Individual:           Ruth Hawley Fedder    MWMF  
Support Individual:       John Bowers            DWTF

CDR Budget Estimate       \$1316K  
Rev. 1 Budget Estimate   \$1317K  
Rev. 1.2 Budget Guidance \$1526K

**1.6.3 Water Treatment:** This area will have joint leadership as described in the Water Treatment MOU signed jointly by MWMF and HWM. A water treatment trade study has recently been completed in which the merging and co-locating of MWMF and DWTF was addressed. In this evaluation, the preferred option was to categorize the waste water as "of demonstration interest" or "not of demonstration interest". The selected option makes as much use of available HWM equipment as will be available in FY98, and assigns to HWM the total responsibility for all water "not of demonstration interest", and the engineering design/ acquisition responsibility for the "of demonstration interest" water. Although, the cost will be born by MWMF for activities related to the second of these functions, all activities other than specification of requirements and oversight will be contracted to HWM. In so doing, the costs will be kept as CENRTC and not costed against ongoing operations. At such time that it becomes cost effective to transfer all functions to HWM, formal cost and accountability transfer will be initiated.

Lead Individual:           Jim Anson               DWTF  
Support Individual:       David Hipple            MWMF

CDR Budget Estimate \$1517K  
Rev. 1 Budget Estimate \$1518K  
Rev. 1.2 Budget Guidance \$958K

**1.6.4 Final Forms:** This is a key process of the MWMF demonstrations with the budget being maintained at CDR estimate. The rebaseline effort should be directed to meeting the schedule/cost profile as shown in Table 1.

CDR Budget Estimate \$1843K  
Rev. 1 Budget Estimate \$1886K  
Rev. 1.2 Budget Guidance \$1865K

**1.6.5 Supervisory Instrumentation and Control (SIC):** This area will be under the lead of MWMF. Because of the demonstration requirements associated with MWMF and essential housekeeping functions required of mixed waste treatment facilities, significant functional commonalty already exist in the SIC design with the HWM requirements for the Liquid Waste Processing Building. Integration of the SIC should be pursued, with the goal of maintaining the initial budget goal. This will require some downscoping to allow for the additional interfaces and data required of the HWM operations. All local process instrumentation and control (for HWM operations in the Liquid Waste Processing facility) will be the responsibility of the individual DWTF process elements, however, SIC will provide the model for these systems to assure common interfaces and safety functionality. As with MWMF, these elements may wish to contract with MWMF I&C group for the design and acquisition of the specific Process I&C systems, however, this is at the discretion of the individual process.

Lead Individual: Bob Nyholm MWMF  
Support Individual: Bob Howe DWTF

CDR Budget Estimate \$2657K  
Rev. 1 Budget Estimate \$2673K  
Rev. 1.2 Budget Guidance \$2598K

Interdepartmental letterhead

Mail Station L - 437

Ext: 2-7045

MIXED WASTE MANAGEMENT FACILITY

January 10, 1995

MWMF 95-132

L-18893-1

TO : Distribution

FROM: Ronald Streit, MWMF  
Keith Gilbert, HWM

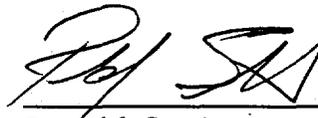
SUBJECT: Cost Reduction Guidance

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As part of the merging of the MWMF and DWTF projects, a number of issues were to be addressed including operations efficiencies, cost savings, and drawing a closer tie between MWMF demonstrations and future treatment capabilities. The first phase of this merge was the Rebaseline of the DWTF Project to include the updated scope from the ADR and integrate MWMF in the centralized complex. The Rebaseline documentation and Validation were completed in early December, and we would like to thank everybody for their efforts in completing these tasks on a very tight timetable. Both jobs were very well done and were well received by DOE and their independent reviewers.

It is now time to address additional merging efficiencies with the primary goal of reducing total cost of MWMF and DWTF projects combined. The cost savings of merging certain operations which do not currently have the same requirements, but are of similar function need to be addressed. These merges will require that we reassess the "essential" requirements relative to the "desired" capability. The results of this assessment will be reflected in the MWMF Rebaseline, Rev. 2 (post PDR) as well as the DWTF Title I design. It is critical that both teams keep an open mind and be very flexible in this effort. Toward this end, we have designated the lead project, responsible individuals and design guidance for a number of program elements as shown on the attached sheets.

We recognize that the devil is in the details and that this effort will not be easy. However, we would like to receive final reports from each team by February 15, 1995, and would like a progress memorandum by January 31.



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Ronald Streit  
Project Manager  
MWMF



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Keith Gilbert  
Division Leader  
HWM

Attachment

Distribution:

HWM:

Jim Anson  
John Bowers  
Kerry Cadwell  
Dick Crawford  
Rod Hollister  
Bob Howe  
Collin Jones  
Jim Judge  
Rick Kochhar  
Charlie Patterson

MWMF:

Joel Bowers  
Scott Couture  
Paul Densley  
Ruth Hawley-Fedder  
Dave Hipple  
Bob Nyholm  
Alan Throop

DWTF:

Bill Huddleston  
Anita Zenger

## Guidance to Merge designated elements of MWMF and HWM Operations within the DWTF Complex

**Receiving and Shipping:** This area will be under the lead of HWM. MWMF will provide to HWM the requirements as currently defined (SDR). HWM will evaluate these requirements relative to the available HWM operations planned for FY98 and the proposed operations plan for DWTF. The team will provide a plan as to how the "essential" requirements will be met for MWMF demonstration needs. For instance, while it may have been desirable to use the receiving area for some short term storage, available storage areas within HWM current facilities and DWTF should mitigate this need. MWMF should plan requisitions such that waste shipment will be received directly into MWMF with a minimal of staging. This is similar to that currently envisioned for HWM operations in DWTF. The MWMF WBS element will be reduced to cover interface support. All hardware and design aspects (including cost other than MWMF support staff) will be covered by HWM operations and/or DWTF. Significant area reduction for the Receiving and Shipping should be considered.

HWM Lead: Rod Hollister  
MWMF Support: Paul Densley

**Process Evaluation (previously Analytical Laboratory):** This area will be under the lead of MWMF. The goal of this function will be modified to provide only critical process support to MWMF and HWM for those analyses which it is not practical or cost effective to send out of the MWMF/DWTF complex. Specifically, if analysis is required within the typical work day and cannot be effectively contracted to existing analytical laboratories, the process evaluation element will provide support. Process evaluation will also provide support for receiving, handling, storing, and arranging for analysis of all samples. Equipment and facility design should support this baseline. Outside MWMF/DWTF support should be evaluated (both within LLNL and commercial) to determine the effectiveness of analysis from a turn-around and cost perspective. Only minimal new analytical equipment should be considered for this facility.

MWMF Lead: Ruth Hawley-Fedder  
HWM Support: John Bowers

**Feed Preparation/Repackaging:** This area will be under the lead of MWMF. MWMF will require a feed preparation capability for initial operations prior to completion of DWTF Project Phases 3 and 4. Additionally, many of the repackaging requirements envisioned in the Solid Waste Processing Building (DWTF) will require similar functionality. Because of the commonalty of these elements, merging facilities offer the single greatest potential for major cost savings by the elimination of the Solid Waste Processing Building. For initial operations, the feed preparation functions should be focused on meeting the critical requirements of

MWMF primary process systems (e.g., preparing feed for process demonstrations, acquire sufficient data to ensure that process evaluations can be completed, and to comply with all environment, health and safety requirements) **and** in providing the solid rad-waste and LLMW repackaging functions for HWM. Technology demonstrations in this element should be consistent with meeting MWMF solid- and liquid-waste processing needs, however, they should not limit the repackaging functions required by HWM. While the base technology for solid sorting will be tele-robotic and autonomous (for simple well-defined tasks, e.g., conveyer movements) operation, this technology should not prevent, **or hamper** manned operation should it be required. Where costs are comparatively low, the design should not preclude further upgrade for autonomous operations, however, this will not be the baseline for initial operations. Further, where anticipated HWM capabilities will be available in FY98, the MWMF design shall not duplicate available capability. As such, it may be possible to requisition feed from HWM which has been pre-filtered or segregated such that additional processing in MWMF is minimized. After the initial demonstrations, and once the DWTF complex is brought on line, it is expected that the operations in Feed Preparation will be transitioned to HWM with the exception of new technologies to be demonstrated.

MWMF Lead: Scott Couture  
HWM Support: Collin Jones

**Decontamination:** This area will be under the lead of DWTF. The decontamination function will provide for the needs of both HWM and MWMF in Building 695. During initial operations, prior to the activation of Phases 3 and 4 of the DWTF complex, the decontamination function in B695 will be largely in support of MWMF operations. However, as additional functions are integrated into this complex, the decontamination element will provide for the more general needs of the HWM operations. Because of the initial linkage to MWMF, some design support will be provided through the MWMF project, however, hardware, costs, and the balance of design will be the responsibility of DWTF.

HWM Lead: Scott Kidd  
MWMF Support: Scott Couture

**Water Treatment:** This area will have joint leadership as described in the Water Treatment MOU jointly signed by MWMF and HWM. A water-treatment trade study has recently been completed in which the merging and co-locating of MWMF and DWTF was addressed. In this evaluation, the preferred option was to categorize the waste water as "of demonstration interest" or "not of demonstration interest." The selected option makes as much use of available HWM equipment as will be available in FY98, and assigns to HWM the total responsibility for all water "not of demonstration interest," and the engineering design/acquisition responsibility for the "of demonstration interest" water. Although MWMF will bare the cost for activities related to the second of these functions, all activities other than specification of requirements and oversight will be contracted to HWM. In so doing,

the costs will remain as CENRTC and will not be costed against ongoing operations. At such time that it becomes cost effective to transfer all functions to HWM, formal cost and accountability transfer will be initiated.

HWM: Jim Anson  
MWMF: David Hipple

**Supervisory Instrumentation and Control (SIC):** This area will be under the lead of MWMF. Because of the demonstration requirements associated with MWMF and essential housekeeping functions required of mixed waste treatment facilities, significant functionality already exists in the SIC design so as to make integration of the HWM requirements for the Liquid Waste Processing Building into the MWMF system. All local process instrumentation and control will be the responsibility of the individual process elements. SIC will provide the model for these systems to assure common interfaces and safety functionality. Process systems may choose to contract the MWMF I&C group for specific process elements; however, this is not a requirement. Cost for system supervisory I&C will be the responsibility of MWMF with the exception of requirements and support staff in HWM.

MWMF Lead: Bob Nyholm  
HWM Support: Bob Howe

## **Appendix B**

### **Revised WBS Dictionary**

# Mixed Waste Management Facility

## Work Breakdown Structure

### Level 3 Dictionary

#### Revision No. 1

March 1995

Prepared by:

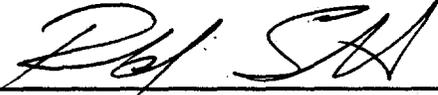
M. F. De Micco

Reviewed by:

  
\_\_\_\_\_  
A. Throop, MWMF Project Control Manager

3/16/95  
Date

Approved by:

  
\_\_\_\_\_  
R. Streit, MWMF Project Manager

3/17/95  
Date

  
\_\_\_\_\_  
R. Scott, DOE Project Manager

4/15/95  
Date

# Work Breakdown Structure Level 3 Dictionary, Revision 1

## Summary

This is a general revision updating the Mixed Waste Management Facility (MWMF) Work Breakdown Structure (WBS) Titles and WBS Dictionaries to reflect the Revised Baseline 1.2 and updates based on Title I design. The primary changes include:

- WBS 1.1.1 Added text stating that effort is shared between WBS 1.3.2.
- WBS 1.1.3 Changed title from "NEPA/CEQA" to "Environmental Documentation."
- WBS 1.3.2 Added text stating that effort from WBS 1.1.1, Quality Assurance, has been transferred to this WBS element.
- WBS 1.3.3 Changes to Section 12.c "Technical Content" to more accurately reflect the scope of this WBS element.
- WBS 1.4.1 Minor scope clarifications in Section 12.b "Element Description."
- WBS 1.4.3 Minor scope clarifications in Section 12.b "Element Description."
- WBS 1.5.2 Minor scope clarifications in Section 12.b "Element Description."
- WBS 1.5.3 Element deleted per Project Baseline Revision 1.
- WBS 1.5.4 Element deleted per Project Baseline Revision 1.
- WBS 1.5.5 Changed Section 12.c "Technical Content" to delete "Catalytic DeNOx" due to a decrease in scope, and minor text changes.
- WBS 1.6.1 Deleted "Equipment Staging" from Section 12.a, due to decrease in scope, and other minor text changes.
- WBS 1.6.2 Changed title from "Analytical Laboratory" to "Analytical Services," and minor scope clarifications and text changes.
- WBS 1.6.3 Changes to Section 12.b "Element Description," and 12.c "Technical Content" to reflect a decrease in scope, which now covers water treatment only as part of demonstration tests.
- WBS 1.6.4 Text changes reflecting minor scope clarifications.
- WBS 1.6.5 Deleted "Equipment Staging" from scope (Section 12.a). Other minor scope clarifications and text changes.

**U. S. DEPARTMENT OF ENERGY  
WORK BREAKDOWN STRUCTURE DICTIONARY  
PART I - INDEX**

1. PROJECT TITLE/PARTICIPANT Mixed Waste Management Facility										2. DATE 3/9/95		3. IDENTIFICATION NUMBER 86D103-000		
4. LINE NO.	5. WBS ELEMENTS									6. PARTICIPANT WBS ELEMENT CODE	7. BUDGET AND REPORTING NO.	8. PHASE	9. OTHER	
	INDENTURE LEVEL												COA <sup>1</sup>	SOW <sup>2</sup>
	1	2	3	4	5	6	-	-	-					
1	X									MWMF	1.0			
2		X								Program Support & Assurances	1.1			
3			X							Quality Assurance	1.1.1			
4			X							PSAR	1.1.2			
5			X							Environmental Documentation	1.1.3			
6			X							ES&H	1.1.4			
7			X							Program Support	1.1.5			
8			X							Public Participation	1.1.6			
9		X								Operations Support	1.2			
10			X							Conceptual Design	1.2.1			
11			X							Plant Start Up Management	1.2.2			
12			X							Activation	1.2.3			
13		X								Project Integration	1.3			
14			X							Project Management	1.3.1			
15			X							Project Control	1.3.2			
16			X							Technical Systems Integration	1.3.3			
17		X								Feed Preparation Systems	1.4			
18			X							Receiving & Shipping (RAS)	1.4.1			
19			X							Solids Feed Preparation (SFP)	1.4.2			
20			X							Liquids Feed Preparation(LFP)	1.4.3			
21		X								Waste Processing Systems	1.5			
22			X							Mediated Electrochemical Oxidation (MEO)	1.5.1			

<sup>1</sup> COA = Code of Accounts  
<sup>2</sup> SOW = Statement of Work

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1. PROJECT TITLE/PARTICIPANT Mixed Waste Management Facility										2. DATE 3/9/95		3. IDENTIFICATION NUMBER 86D103-000			
4. LINE NO.	5. WBS ELEMENTS									6. PARTICIPANT WBS ELEMENT CODE	7. BUDGET AND REPORTING NO.	8. PHASE	9. OTHER		
	INDENTURE LEVEL												TITLE	COA <sup>1</sup>	SOW <sup>2</sup>
	1	2	3	4	5	6	-	-	-						
23			X							Molten Salt Oxidation (MSO)	1.5.2				
24			X							Wet Oxidation (WOX)	1.5.3				
25			X							UV Photolysis (UVP)	1.5.4				
26			X							Experimental Offgas (XOG)	1.5.5				
27		X								Process Support Systems	1.6				
28			X							Process Transport & Storage (PTS)	1.6.1				
29			X							Analytical Services (LAB)	1.6.2				
30			X							Water Treatment (WTR)	1.6.3				
31			X							Final Forms (FFM)	1.6.4				
32			X							Supervisory Instrumentation and Control (SIC)	1.6.5				

<sup>1</sup> COA = Code of Accounts  
<sup>2</sup> SOW = Statement of Work

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PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1	5. WBS ELEMENT TITLE Program Support and Assurances	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor  Administrative Labor  Assurances Labor  Engineering Labor  Subcontracted Activity:  Specialty Safety and Environmental Analysis Contractors  Special Assurance Contractors</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Program Support and Assurances provides top-level management, support, and assurance for the operating funded portions of the MWMF Project. This includes overall management and control activities associated with quality assurance, safeguards, safety and environment, NEPA/CEQA documentation, the Preliminary Safety Analysis Report, and development program interface. This element includes activities to ensure that the MWMF Project is in compliance with DOE regulations, State and local regulatory requirements.</p> <p>d. Work Statement</p> <p>All work is performed in lower level WBS elements.</p> <p>e. Interfaces</p> <p>Program Support and Assurances interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.1	5. WBS ELEMENT TITLE Quality Assurance	
6. REVISION NO. AND AUTHORIZATION 1 <i>Def SA</i>	7. DATE 3/12/95	
8. APPROVED CHANGES Most of effort transferred to WBS 1.3.2, Project Control	9. FUND TYPE OPEX	
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Assurances Labor Engineering Labor Subcontracted Activity: Specialty Contracts</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Quality Assurance provides quality assurance support to the MWMF Project. This effort includes development and implementation of the project's quality assurance program and oversight for conformance to the approved plan and other quality and ES&amp;H requirements. This WBS element covers only a proportional fraction of the OPEX quality assurance effort, with the CENRTC portion contained under WBS 1.3.2, Project Control.</p> <p>d. Work Statement</p> <p>Work is performed in WBS elements 1.1.1 and 1.3.2.</p> <p>e. Interfaces</p> <p>Quality Assurance interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.2	5. WBS ELEMENT TITLE PSAR	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Assurances Labor Engineering Labor Subcontracted Activity: Specialty Contractors (e.g., Safety)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>The PSAR provides the integration of safety input, design reviews, and safety analysis for the MWMF Preliminary Safety Analysis Report. Safety analysis includes the actual analysis, generation of documentation, and documentation review and approval. The element includes the generation of the Preliminary Safety Analysis Reports (PSAR) and follow-on analysis required prior to the generation of the Final Safety Analysis Report (FSAR). This element provides additional criticality support to resolve safety issues.</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>PSAR interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.3.1	5. WBS ELEMENT TITLE Environmental Documentation	
6. REVISION NO. AND AUTHORIZATION <i>4 of 5 SA</i>		7. DATE 3/12/95
8. APPROVED CHANGES Change in title.		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Assurances Labor Engineering Labor Subcontracted Activity: Specialty Contractor (environmental permits)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Environmental Documentation provides for the preparation of input to the Environmental Assessment and all required follow-up documentation required for the NEPA/CEQA and necessary permitting. Effort includes preliminary evaluations, preparation of an implementation plan, preparation of technical information to support EA preparation, and comment resolution. This element prepares and coordinates approval of State, EPA, and local permits and supports public participation activities associated with the permits approvals.</p> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>Environmental Documentation interfaces with: PSAR (1.1.2) ES &amp; H (1.1.4) Public Participation (1.1.6)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.4	5. WBS ELEMENT TITLE ES&H	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Assurances Labor Engineering Labor Subcontracted Activity: Specialty Contractors (e.g., Safety)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>ES&amp;H provides for Environment, Safety, and Health representation to the MWMF project to ensure that all activities are conducted in a safe and environmentally sound manner and to ensure that ES&amp;H standards have been properly applied. This element provides for conducting and/or monitoring safety-related analyses and the resultant documentation. Specific activities include preparing and implementing various assurance plans; performing hazard evaluations and safety assessments; participating in design reviews to ensure compliance with safety and environmental standards and regulations; preparing safety and environmental procedures; preparing input for permit applications and other documentation required for compliance with Federal and/or State requirements.</p> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>ES&amp;H interfaces with: Quality Assurance (1.1.1) NEPA/CEQA (1.1.3) PSAR (1.1.2) Public Participation (1.1.6)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.5	5. WBS ELEMENT TITLE Program Support	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p style="padding-left: 40px;">Management Labor Administrative Labor Subcontracted Activity: Specialty Contractors</p> <p>b. Element Description</p> <p style="padding-left: 40px;">N/A</p> <p>c. Technical Content</p> <p style="padding-left: 40px;">Program Support provides top-level planning, control, and support of MWMF Project OPEX-funded activities. Specific activities include management of project assurances and interface with development activities.</p> <p>d. Work Statement</p> <p style="padding-left: 40px;">All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p style="padding-left: 40px;">Program Support interfaces with: Program Support and Assurances (1.1) Project Integration (1.3)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.1.6	5. WBS ELEMENT TITLE Public Participation	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: NA Title: NA	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Subcontracted Activity: Specialty Contractors</p> <p>b. Element Description</p> <p>NA</p> <p>c. Technical Content</p> <p>Public Participation provides for public input to the planning and execution phases of the MWMF Project. Included are a National Advisory Committee, a Community Newsletter and preparation and coordination of press releases and community tours.</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Public Participation interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.2	5. WBS ELEMENT TITLE Operations Support	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Management Labor</li> <li>Administrative Labor</li> <li>Operations Staff Labor</li> <li>Maintenance Staff Labor</li> <li>Engineering Labor</li> <li>OPT Support Labor</li> <li>Operating Spares</li> <li>Initial Stores Inventory</li> </ul> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Operations Support provides the planning, conceptual design, staffing and training, technology transfer, procedure preparation, and operational test procedure (OTP) performance required to activate the MWMF. It also includes all operating spares and the initial stores inventory. The OPEX activities are completed by the Operational Readiness Review which leads to initial production operation.</p> <p>d. Work Statement</p> <p>All work is performed in lower level WBS elements.</p> <p>e. Interfaces</p> <p>The Operations Support element interfaces with:</p> <ul style="list-style-type: none"> <li>Program Support and Assurance (1.1)</li> <li>Feed Preparation (1.4)</li> <li>Waste Processing (1.5)</li> <li>Process Support (1.6)</li> </ul>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.2.1	5. WBS ELEMENT TITLE Conceptual Design	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Management Labor</li> <li>Administrative Labor</li> <li>Assurances Labor</li> <li>Engineering Labor</li> <li>Scientific Labor</li> <li>Subcontracts: <ul style="list-style-type: none"> <li>Design Contractors</li> <li>Specialty Contractors</li> </ul> </li> </ul> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Conceptual Design provides the project technical, cost, and schedule baselines that form the basis for KD-1.</p> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>The Conceptual Design activity interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.2.2	5. WBS ELEMENT TITLE Plant Start Up Management	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p style="padding-left: 40px;">Management Labor Administrative Labor Operations Staff Labor Maintenance Staff Labor Engineering Labor</p> <p>b. Element Description</p> <p style="padding-left: 40px;">N/A</p> <p>c. Technical Content</p> <p style="padding-left: 40px;">Plant Start Up Management provides (1) operations and maintenance review of system designs, (2) the development of top level plans for staffing, training, testing, and readiness review, (3) task analysis and preparation, review, and revision of site operating, maintenance, instrument calibration, and emergency response procedures, (4) recruiting, hiring, clearing, and providing general employee training for the plant staff, and (5) the development of training materials, training the trainers, and special technical and on-the-job training for the plant staff.</p> <p>d. Work Statement</p> <p style="padding-left: 40px;">All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p style="padding-left: 40px;">The Plant Start Up element interfaces with: Program Support and Assurance (1.1) Feed Preparation (1.4) Waste Processing (1.5) Process Support (1.6)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.2.3	5. WBS ELEMENT TITLE Activation	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE OPEX
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER EW321009	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <ul style="list-style-type: none"> <li>Management Labor</li> <li>Administrative Labor</li> <li>Operations Staff Labor</li> <li>Maintenance Staff Labor</li> <li>Engineering Labor</li> <li>OTP Support Labor</li> <li>Operating Spares</li> <li>Initial Stores Inventory</li> </ul> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Activation provides: (1) the preparation, review, revision, and release of all Operational Test Procedures (OTPs); (2) plant systems activation, integration, and performance of Operational Test Procedures in each of the technology areas including Operational Readiness Reviews; (3) technical support for the preparation of Operational Safety Requirements (OSR) and Facility Safety Requirements (FSR), the identification and resolution of problems during plant operational testing, startup; (4) maintenance support to perform equipment or process modifications during start-up, testing, and activation; (5) all operational spares and the initial stores inventory; and (6) all manpower and materials required to deliver support services (e.g., utilities, power, etc.), testing, and activation of the MWMF.</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Activation interfaces with:</p> <ul style="list-style-type: none"> <li>Feed Preparation (1.4)</li> <li>Waste Processing (1.5)</li> <li>Process Support (1.6)</li> </ul>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.3	5. WBS ELEMENT TITLE Project Integration	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Assurances Labor Engineering Labor Legal Counsel (may be expense) Subcontracted Efforts: Specialized technical consultants (e.g., RAM, safety)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Project Integration provides top level CENRTC funded project planning, direction, assurance, and control of MWMF Project deployment activities. The scope includes:</p> <p>Project management Project assurances Project control Technical systems integration</p> <p>d. Work Statement</p> <p>All work is performed in lower level WBS elements.</p> <p>e. Interfaces</p> <p>Project Integration interfaces with all WBS elements.</p>		

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4. WBS ELEMENT CODE 1.3.1	5. WBS ELEMENT TITLE Project Management	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Subcontracted Efforts: Specialized technical consultants (e.g., RAM, safety)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Project Management provides top level project planning, direction, and control of the MWMF Project CENRTC funded systems. Specific activities include top level project management and support of Project Office, project assurance (including quality assurance, safeguards, environmental, and safety oversight), management overview of information management and technical activities, and interface with DOE.</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Project Management interfaces with all WBS elements.</p>		

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PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.3.2	5. WBS ELEMENT TITLE Project Control	
6. REVISION NO. AND AUTHORIZATION 1*	<i>Ph/SA</i>	7. DATE 3/12/95
8. APPROVED CHANGES Added Quality Assurance (from WBS 1.1.1).	9. FUND TYPE CENRTC	
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Engineering Labor Subcontracted Efforts: Specialized technical consultants</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Project Control provides for the Project integration, configuration management, cost and schedule control, quality assurance (see WBS 1.1.1), and administration of the CENRTC-funded systems. It develops and maintains the management systems used to monitor progress against the established baselines and to ensure configuration control (drawings, documents, etc.).</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element. Associated work for OPEX is contained in WBS 1.1.1.</p> <p>e. Interfaces</p> <p>Project Control interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.3.3	5. WBS ELEMENT TITLE Technical Systems Integration	
6. REVISION NO. AND AUTHORIZATION 1 <i>PA SA</i>	7. DATE 3/17/95	
8. APPROVED CHANGES Changes to technical content (See 12.c. "Technical Content").	9. FUND TYPE CENRTC	
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content</p> <p>Management Labor Administrative Labor Engineering Labor Subcontracted Efforts: Specialized technical consultants (e.g., RAM, safety)</p> <p>b. Element Description</p> <p>N/A</p> <p>c. Technical Content</p> <p>Technical Systems Integration provides the oversight and performance studies intended to verify or document system integration performance, system analysis, special process diagnostics, and planning and analysis of the process aspects of integrated tests. It covers technical issues that affect all primary and support processes. It also includes the responsibility for assuring that the systems interfaces are addressed in the integrated design, including interfaces with LLNL Hazardous Waste Management and facility engineering. The element coordinates the System Design Requirements, the MWMF floor plan, and the Integrated Operating Plan. Specific topics include the integration of waste treatment processes and facility, and material accountability</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Technical Systems Integration interfaces with all WBS elements.</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.4	5. WBS ELEMENT TITLE Feed Preparation Systems	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Element Engineering (Title I, II, III design) Staging and Checkout of Equipment Installation Purchased Material, Services and Equipment Acceptance Test Procedures (ATP) Labor</p> <p>b. Element Description</p> <p>The principle objective of the Feed Preparation Systems is to provide for the receipt, characterization, preparation for processing, and handling of homogeneous and heterogeneous materials received from HWM and other processes in the treatment system. This includes segregating the entering waste stream into combustible solids and liquids, heterogeneous solids, homogeneous inorganic solids and liquids, metals and unknowns. Decontamination, packaging, and shipping of materials from the MWMF is also included in this element.</p> <p>c. Technical Content</p> <p>Feed Preparation Systems provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Feed Preparation Systems equipment, Title III inspection, and acceptance test procedures (ATP). Feed Preparation Systems includes:</p> <p>    Feed Preparation Systems equipment     Feed Preparation Systems integration</p> <p>d. Work Statement</p> <p>All work is performed in lower level WBS elements.</p> <p>e. Interfaces</p> <p>Feed Preparation Systems activities interface with:</p> <p>    Program Support and Assurances (1.1)     Operations Support (1.2)     Project Integration (1.3)     Waste Processing Systems (1.5)     Process Support Systems (1.6)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.4.1	5. WBS ELEMENT TITLE Receiving and Shipping (RAS)	
6. REVISION NO. AND AUTHORIZATION 1 <i>[Signature]</i>		7. DATE 3/12/95
8. APPROVED CHANGES Minor scope clarifications.		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Receiving and Shipping	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Equipment Engineering (Title I, II, III design) Staging and Checkout of Equipment Installation Purchased Material, Services and Equipment Acceptance Test Procedures (ATP) Labor</p> <p>b. Element Description</p> <p>The principal objective of the Receiving and Shipping (RAS) system is to provide for the receiving, logging, identification and characterization of all incoming waste containers and to determine the acceptability for processing the waste. The system also provides for the receipt of reagents and surrogate materials.</p> <p>c. Technical Content</p> <p>Receiving and Shipping provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, staging/assembly, and installation of Receiving and Shipping equipment, Title III inspection, and acceptance test procedures (ATP). Receiving and Shipping includes:</p> <p>Container Transport In Process Storage Ancillary Systems/Equipment Local Process I&amp;C</p> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Receiving and Shipping activities interface with:</p> <p>Solids Feed Preparation (1.4.2) Process Transport &amp; Storage (1.6.1) Analytical Services (1.6.2) Supervisory Instrumentation and Controls (1.6.5)</p>		

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4. WBS ELEMENT CODE 1.4.2	5. WBS ELEMENT TITLE Solids Feed Preparation																									
6. REVISION NO. AND AUTHORIZATION 0		7. DATE																								
8. APPROVED CHANGES None		9. FUND TYPE CENRTC																								
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Solids Feed Preparation	11. BUDGET AND REPORTING NUMBER 35EW32109																									
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td>Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principle objective of the Solids Feed Preparation system is to provide for the receipt, characterization, preparation for processing, and handling of homogeneous and heterogeneous solids received from storage and other processes in the treatment system. This includes segregating the incoming waste stream into combustible solids, heterogeneous solids, homogeneous inorganic solids and metals, and liquids that were not previously identified. Packaging and container decontamination is included in this element.</p> <p>c. Technical Content</p> <p>Solids Feed Preparation provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Solids Feed Preparation equipment, Title III inspection, and acceptance test procedures (ATP). Solids Feed Preparation includes:</p> <table border="0"> <tr> <td>Container Receiving</td> <td>Container Characterization</td> <td>Preliminary Sorting</td> </tr> <tr> <td>Definitive Sorting</td> <td>Processing</td> <td>Container Management</td> </tr> <tr> <td>In Process Storage</td> <td>Ancillary Systems/Equipment</td> <td>Local Process I&amp;C</td> </tr> <tr> <td>Decontamination</td> <td></td> <td></td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Solids Feed Preparation activities interface with:</p> <table border="0"> <tr> <td>Receiving and Shipping (1.4.1)</td> <td>Liquids Feed Preparation (1.4.3)</td> </tr> <tr> <td>Mediated Electrochemical Oxidation (1.5.1)</td> <td>Molten Salt Oxidation (1.5.2)</td> </tr> <tr> <td>Experimental Off Gas Treatment (1.5.5)</td> <td>Process Transport and Storage (1.6.1)</td> </tr> <tr> <td>Analytical Laboratory (1.6.2)</td> <td>Water Treatment (1.6.3)</td> </tr> <tr> <td>Final Forms (1.6.4)</td> <td>Supervisory I&amp;C (1.6.5)</td> </tr> </table>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	Container Receiving	Container Characterization	Preliminary Sorting	Definitive Sorting	Processing	Container Management	In Process Storage	Ancillary Systems/Equipment	Local Process I&C	Decontamination			Receiving and Shipping (1.4.1)	Liquids Feed Preparation (1.4.3)	Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)	Experimental Off Gas Treatment (1.5.5)	Process Transport and Storage (1.6.1)	Analytical Laboratory (1.6.2)	Water Treatment (1.6.3)	Final Forms (1.6.4)	Supervisory I&C (1.6.5)
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment																									
Container Receiving	Container Characterization	Preliminary Sorting																								
Definitive Sorting	Processing	Container Management																								
In Process Storage	Ancillary Systems/Equipment	Local Process I&C																								
Decontamination																										
Receiving and Shipping (1.4.1)	Liquids Feed Preparation (1.4.3)																									
Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)																									
Experimental Off Gas Treatment (1.5.5)	Process Transport and Storage (1.6.1)																									
Analytical Laboratory (1.6.2)	Water Treatment (1.6.3)																									
Final Forms (1.6.4)	Supervisory I&C (1.6.5)																									

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000																						
4. WBS ELEMENT CODE 1.4.3	5. WBS ELEMENT TITLE Liquids Feed Preparation (LFP)																							
6. REVISION NO. AND AUTHORIZATION 1 <i>Rof SA</i>		7. DATE 3/12/95																						
8. APPROVED CHANGES Minor scope clarifications.		9. FUND TYPE CENRTC																						
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Liquids Feed Preparation	11. BUDGET AND REPORTING NUMBER 35EW32109																							
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td>Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principal objective of the Liquids Feed Preparation system is to provide for the receipt, characterization, preparation for processing, and handling of homogeneous and heterogeneous liquids and solids/liquids mixtures received from storage and other processes in the facility. This includes processing the incoming waste stream by waste type, i.e., aqueous with Trimsol, chlorinated organic liquids, oils, solvents and scintillation cocktails.</p> <p>c. Technical Content</p> <p>Liquids Feed Preparation provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Liquids Feed Preparation equipment, Title III inspection, and acceptance test procedures (ATP). Liquids Feed Preparation includes:</p> <table border="0"> <tr> <td>Receiving and Sampling</td> <td>Container Emptying</td> </tr> <tr> <td>Liquid/Solid Separation</td> <td>Liquid/Liquid Separation</td> </tr> <tr> <td>In Process Storage</td> <td>Ancillary Systems/Equipment</td> </tr> <tr> <td>Local Process I&amp;C</td> <td></td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Liquids Feed Preparation activities interface with:</p> <table border="0"> <tr> <td>Receiving and Shipping (1.4.1)</td> <td>Solids Feed Preparation (1.4.2)</td> </tr> <tr> <td>Mediated Electrochemical Oxidation (1.5.1)</td> <td>Molten Salt Oxidation (1.5.2)</td> </tr> <tr> <td>Wet Oxidation (1.5.3)</td> <td>Experimental Off Gas Treatment (1.5.5)</td> </tr> <tr> <td>Process Transport and Storage (1.6.1)</td> <td>Analytical Services (1.6.2)</td> </tr> <tr> <td>Water Treatment (1.6.3)</td> <td>Final Forms (1.6.4)</td> </tr> <tr> <td>Supervisory Instrumentation and Controls (1.6.5)</td> <td></td> </tr> </table>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	Receiving and Sampling	Container Emptying	Liquid/Solid Separation	Liquid/Liquid Separation	In Process Storage	Ancillary Systems/Equipment	Local Process I&C		Receiving and Shipping (1.4.1)	Solids Feed Preparation (1.4.2)	Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)	Wet Oxidation (1.5.3)	Experimental Off Gas Treatment (1.5.5)	Process Transport and Storage (1.6.1)	Analytical Services (1.6.2)	Water Treatment (1.6.3)	Final Forms (1.6.4)	Supervisory Instrumentation and Controls (1.6.5)	
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment																							
Receiving and Sampling	Container Emptying																							
Liquid/Solid Separation	Liquid/Liquid Separation																							
In Process Storage	Ancillary Systems/Equipment																							
Local Process I&C																								
Receiving and Shipping (1.4.1)	Solids Feed Preparation (1.4.2)																							
Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)																							
Wet Oxidation (1.5.3)	Experimental Off Gas Treatment (1.5.5)																							
Process Transport and Storage (1.6.1)	Analytical Services (1.6.2)																							
Water Treatment (1.6.3)	Final Forms (1.6.4)																							
Supervisory Instrumentation and Controls (1.6.5)																								

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.5	5. WBS ELEMENT TITLE Waste Processing Systems	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Equipment Engineering (Title I, II, III design) Staging and Checkout of Equipment Installation Purchased Material, Services and Equipment Acceptance Test of Complete System</p> <p>b. Element Description</p> <p>The principle objective of the Waste Processing Systems is to separate the solids and destroy the organics in the mixed waste.</p> <p>c. Technical Content</p> <p>Waste Processing Systems provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Waste Processing Systems equipment, Title III inspection, and acceptance test procedures (ATP). The Waste Processing Systems includes:</p> <p>Waste Processing Systems equipment Waste Processing Systems integration</p> <p>d. Work Statement</p> <p>All work is performed in lower WBS elements.</p> <p>e. Interfaces</p> <p>The Waste Processing Systems activities interface with:</p> <p>Program Support and Assurances (1.1) Operation Support (1.2) Project Integration (1.3) Feed Preparation Systems (1.4) Process Support Systems (1.6)</p>		

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000				
4. WBS ELEMENT CODE 1.5.1	5. WBS ELEMENT TITLE Mediated Electrochemical Oxidation (MEO)					
6. REVISION NO. AND AUTHORIZATION 0		7. DATE				
8. APPROVED CHANGES None		9. FUND TYPE CENRTC				
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Mediated Electrochemical Oxidation	11. BUDGET AND REPORTING NUMBER 35EW32109					
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td style="width: 50%;">Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principle objective of Mediated Electrochemical Oxidation is to receive mixed waste and completely convert the organic portions to CO<sub>2</sub> and water., to recycle acid and silver, and to remove ash.</p> <p>c. Technical Content</p> <p>Mediated Electrochemical Oxidation provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Mediated Electrochemical Oxidation equipment, Title III inspection, and acceptance test procedures (ATP). The Mediated Electrochemical Oxidation includes:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">MEO Primary System MEO Silver Recovery System Local Process I&amp;C</td> <td style="width: 50%;">MEO Acid Recovery System Ancillary Systems/Equipment Process Off-Gas</td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>Mediated Electrochemical Oxidation System activities interface with:</p> <ul style="list-style-type: none"> <li>Solids Feed Preparation (1.4.2)</li> <li>Liquids Feed Preparation (1.4.3)</li> <li>Experimental Off Gas Treatment (1.5.5)</li> <li>Process Transport &amp; Storage (1.6.1)</li> <li>Analytical Laboratory (1.6.2)</li> <li>Water Treatment (1.6.3)</li> <li>Final Forms (1.6.4)</li> <li>Supervisory I &amp; C (1.6.5)</li> </ul>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	MEO Primary System MEO Silver Recovery System Local Process I&C	MEO Acid Recovery System Ancillary Systems/Equipment Process Off-Gas
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment					
MEO Primary System MEO Silver Recovery System Local Process I&C	MEO Acid Recovery System Ancillary Systems/Equipment Process Off-Gas					

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000				
4. WBS ELEMENT CODE 1.5.2	5. WBS ELEMENT TITLE Molten Salt Oxidation (MSO)					
6. REVISION NO. AND AUTHORIZATION 1	7. DATE 3/17/95	<i>[Signature]</i>				
8. APPROVED CHANGES Minor scope clarifications.	9. FUND TYPE CENRTC					
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Molten Salt Oxidation	11. BUDGET AND REPORTING NUMBER 35EW32109					
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td style="width: 50%;">Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principal objectives of Molten Salt Oxidation (MSO) are to receive appropriately characterized mixed waste streams and convert the organic portions to CO<sub>2</sub> and water, to remove residue containing the radioactive and inorganic mineral residues, and to recycle/process the spent salt.</p> <p>c. Technical Content</p> <p>Molten Salt Oxidation provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Molten Salt Oxidation equipment, Title III inspection, and acceptance test procedures (ATP). The Molten Salt Oxidation includes:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">MSO Primary Unit Ancillary Systems/Equipment Process Off-Gas</td> <td style="width: 50%;">Salt Recycle Support System Local Process I&amp;C</td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>Molten Salt Oxidation System activities interface with:</p> <ul style="list-style-type: none"> <li>Solids Feed Prep System (1.4.2)</li> <li>Liquids Feed Preparation System (1.4.3)</li> <li>Experimental Off Gas System (1.5.5)</li> <li>Process Transport &amp; Storage System (1.6.1)</li> <li>Analytical Services (1.6.2)</li> <li>Water Treatment System (1.6.3)</li> <li>Final Forms (1.6.4)</li> <li>Supervisory Instrumentation and Control (1.6.5)</li> </ul>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	MSO Primary Unit Ancillary Systems/Equipment Process Off-Gas	Salt Recycle Support System Local Process I&C
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment					
MSO Primary Unit Ancillary Systems/Equipment Process Off-Gas	Salt Recycle Support System Local Process I&C					

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4. WBS ELEMENT CODE 1.5.3	5. WBS ELEMENT TITLE Wet Oxidation (WOX)													
6. REVISION NO. AND AUTHORIZATION 1	7. DATE 3/17/95	<i>Ref SA</i>												
8. APPROVED CHANGES Element deleted per Project Baseline Rev. 1.		9. FUND TYPE CENRTC												
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Wet Oxidation	11. BUDGET AND REPORTING NUMBER 35EW32109													
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td>Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principle objective of the Wet Oxidation is to process liquid and solid wastes using hydrogen peroxide to convert the organic to carbon dioxide, water, and other simple compounds.</p> <p>c. Technical Content</p> <p>Wet Oxidation provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Wet Oxidation equipment, Title III inspection, and acceptance test procedures (ATP). The Wet Oxidation includes:</p> <ul style="list-style-type: none"> <li>WOX Unit</li> <li>Ancillary Systems/Equipment</li> <li>Local Process I&amp;C</li> <li>Process Off-Gas</li> </ul> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>Wet Oxidation Systems activities interface with:</p> <table border="0"> <tr> <td>Liquids Feed Preparation (1.4.3)</td> <td>Molten Salt Oxidation (1.5.2)</td> </tr> <tr> <td>UV Photolysis (1.5.4)</td> <td>Experimental Off Gas Treatment (1.5.5)</td> </tr> <tr> <td>Process Transport &amp; Storage (1.6.1)</td> <td>Analytical Services (1.6..2)</td> </tr> <tr> <td>Water Treatment (1.6.3)</td> <td>Final Forms (1.6.4)</td> </tr> <tr> <td>Supervisory Instrumentation and Control (1.6.5)</td> <td></td> </tr> </table>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	Liquids Feed Preparation (1.4.3)	Molten Salt Oxidation (1.5.2)	UV Photolysis (1.5.4)	Experimental Off Gas Treatment (1.5.5)	Process Transport & Storage (1.6.1)	Analytical Services (1.6..2)	Water Treatment (1.6.3)	Final Forms (1.6.4)	Supervisory Instrumentation and Control (1.6.5)	
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment													
Liquids Feed Preparation (1.4.3)	Molten Salt Oxidation (1.5.2)													
UV Photolysis (1.5.4)	Experimental Off Gas Treatment (1.5.5)													
Process Transport & Storage (1.6.1)	Analytical Services (1.6..2)													
Water Treatment (1.6.3)	Final Forms (1.6.4)													
Supervisory Instrumentation and Control (1.6.5)														

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.5.4	5. WBS ELEMENT TITLE UV Photolysis (UVP)	
6. REVISION NO. AND AUTHORIZATION I <i>F/SJA</i>		7. DATE 3/12/95
8. APPROVED CHANGES Element deleted per Project Baseline Rev. 1.		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: UV Photolysis	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Equipment Engineering (Title I, II, III design) Staging and Checkout of Equipment Installation Purchased Material, Services and Equipment Acceptance Test Procedures (ATP) Labor</p> <p>b. Element Description</p> <p>The principle objective of the UV Photolysis system is to treat the aqueous liquids discharged from the Wet Oxidation system condenser to destroy organic to the extent necessary to meet facility water effluent requirements.</p> <p>c. Technical Content</p> <p>UV Photolysis system provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of UV Photolysis equipment, Title III inspection, and acceptance test procedures (ATP). UV Photolysis includes:</p> <p>UV Oxidation System UV Reduction System Ancillary Systems/Equipment Local Process I&amp;C Process Off-Gas</p> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>UV Photolysis activities interface with:</p> <p>Wet Oxidation System (1.5.3) Experimental Off Gas Treatment (1.5.5) Analytical Services (1.6..2) Water Treatment (1.6.3) Supervisory Instrumentation and Control (1.6.5)</p>		

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WORK BREAKDOWN STRUCTURE DICTIONARY  
PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000				
4. WBS ELEMENT CODE 1.5.5	5. WBS ELEMENT TITLE Experimental Off-Gas (XOG)					
6. REVISION NO. AND AUTHORIZATION 1.1 <i>FH/SA</i>	7. DATE 3/17/95					
8. APPROVED CHANGES Decrease in scope (deleted catalytic reduction of NOx) and minor text changes.	9. FUND TYPE CENRTC					
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Experimental Off Gas	11. BUDGET AND REPORTING NUMBER 35EW32109					
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td style="width: 50%;">Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principal objective of the Experimental Off-Gas Treatment (XOG) is to demonstrate advanced, more effective off-gas treatment technologies that minimize secondary waste. These are acidic urea DeNO<sub>x</sub> scrubbing, and advanced metal filters. The second objective is to demonstrate feasibility and effectiveness of off-gas treatment at or near to the source of the gas where the treatment can be tailored to that specific source.</p> <p>c. Technical Content</p> <p>Experimental Off Gas provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Experimental Off Gas equipment, Title III inspection, and acceptance test procedures (ATP). Experimental Off Gas includes:</p> <ul style="list-style-type: none"> <li>Acidic Urea DeNO<sub>x</sub></li> <li>Advanced Filters</li> </ul> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> <p>Experimental Off Gas activities interface with:</p> <ul style="list-style-type: none"> <li>Solids Feed Preparation (1.4.2)</li> <li>Mediated Electrochemical Oxidation (1.5.1)</li> <li>Wet Oxidation (1.5.3)</li> <li>Process Transport and Storage (1.6.1)</li> <li>Water Treatment (1.6.3)</li> <li>Supervisory Instrumentation and Control (1.6.5)</li> </ul> </td> <td style="width: 50%;"> <ul style="list-style-type: none"> <li>Liquids Feed Preparation (1.4.3)</li> <li>Molten Salt Oxidation (1.5.2)</li> <li>UV Photolysis (1.5.4)</li> <li>Analytical Services (1.6.2)</li> <li>Final Forms (1.6.4)</li> </ul> </td> </tr> </table>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	<p>Experimental Off Gas activities interface with:</p> <ul style="list-style-type: none"> <li>Solids Feed Preparation (1.4.2)</li> <li>Mediated Electrochemical Oxidation (1.5.1)</li> <li>Wet Oxidation (1.5.3)</li> <li>Process Transport and Storage (1.6.1)</li> <li>Water Treatment (1.6.3)</li> <li>Supervisory Instrumentation and Control (1.6.5)</li> </ul>	<ul style="list-style-type: none"> <li>Liquids Feed Preparation (1.4.3)</li> <li>Molten Salt Oxidation (1.5.2)</li> <li>UV Photolysis (1.5.4)</li> <li>Analytical Services (1.6.2)</li> <li>Final Forms (1.6.4)</li> </ul>
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment					
<p>Experimental Off Gas activities interface with:</p> <ul style="list-style-type: none"> <li>Solids Feed Preparation (1.4.2)</li> <li>Mediated Electrochemical Oxidation (1.5.1)</li> <li>Wet Oxidation (1.5.3)</li> <li>Process Transport and Storage (1.6.1)</li> <li>Water Treatment (1.6.3)</li> <li>Supervisory Instrumentation and Control (1.6.5)</li> </ul>	<ul style="list-style-type: none"> <li>Liquids Feed Preparation (1.4.3)</li> <li>Molten Salt Oxidation (1.5.2)</li> <li>UV Photolysis (1.5.4)</li> <li>Analytical Services (1.6.2)</li> <li>Final Forms (1.6.4)</li> </ul>					

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.6	5. WBS ELEMENT TITLE Process Support Systems	
6. REVISION NO. AND AUTHORIZATION 0		7. DATE
8. APPROVED CHANGES None		9. FUND TYPE CENRTC
10. SYSTEM DESIGN DESCRIPTION Number: N/A Title: N/A	11. BUDGET AND REPORTING NUMBER 35EW32109	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Equipment Engineering (Title I, II, III design) Staging and Checkout of Equipment Installation Purchased Material, Services and Equipment Acceptance Test Procedures (ATP) Labor</p> <p>b. Element Description</p> <p>The principle objective of the Process Support Systems is to support the operation of the MWMF facility. Such systems include preparation of waste residue for disposal, transportation and storage, analytical lab equipment and supervisory control.</p> <p>c. Technical Content</p> <p>Process Support Systems provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Process Support Systems equipment, Title III inspection, and acceptance test procedures (ATP).</p> <p>d. Work Statement</p> <p>All work is performed in lower level WBS elements.</p> <p>e. Interfaces</p> <p>Process Support Systems activities interface with:</p> <ul style="list-style-type: none"> <li>Program Support and Assurance (1.1)</li> <li>Operation Support (1.2)</li> <li>Project Integration (1.3)</li> <li>Feed Preparation Systems (1.4)</li> <li>Waste Processing Systems (1.5)</li> </ul>		

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PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000																
4. WBS ELEMENT CODE 1.6.1	5. WBS ELEMENT TITLE Process Transport and Storage (PTS)																	
6. REVISION NO. AND AUTHORIZATION I! <i>[Signature]</i>		7. DATE 3/12/95																
8. APPROVED CHANGES Minor scope (deleted equipment staging) and text changes.		9. FUND TYPE CENRTC																
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Process Transport and Storage	11. BUDGET AND REPORTING NUMBER 35EW32109																	
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <p>Equipment Engineering (Title I, II, III design) Installation Equipment Checkout Purchased Material, Services and Equipment Acceptance Test Procedures (ATP) Labor</p> <p>b. Element Description</p> <p>The principal objective of the Process Transport and Storage system is to collect, transfer, deposit, store and handle containers, discrete items, dry and wet bulk materials, slurries, and liquids.</p> <p>c. Technical Content</p> <p>Process Transport and Storage provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Process Transport and Storage equipment, Title III inspection, and acceptance test procedures (ATP). Process Transport and Storage includes:</p> <table border="0"> <tr> <td>Receiving and Identification</td> <td>Material Conveyance</td> </tr> <tr> <td>Storage</td> <td>Ancillary Systems/Equipment</td> </tr> <tr> <td>Local Process I&amp;C</td> <td>Process Off-Gas</td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Process Transport and Storage activities interface with:</p> <table border="0"> <tr> <td>Receiving and Shipping (1.4.1)</td> <td>Solids Feed Preparation (1.4.2)</td> </tr> <tr> <td>Liquids Feed Preparation (1.4.3)</td> <td>Mediated Electrochemical Oxidation (1.5.1)</td> </tr> <tr> <td>Molten Salt Oxidation (1.5.2)</td> <td>Experimental Off Gas (1.5.5)</td> </tr> <tr> <td>Analytical Services (1.6.2)</td> <td>Water Treatment (1.6.3)</td> </tr> <tr> <td>Final Forms (1.6.4)</td> <td>Supervisory Instrumentation and Control (1.6.5)</td> </tr> </table>			Receiving and Identification	Material Conveyance	Storage	Ancillary Systems/Equipment	Local Process I&C	Process Off-Gas	Receiving and Shipping (1.4.1)	Solids Feed Preparation (1.4.2)	Liquids Feed Preparation (1.4.3)	Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)	Experimental Off Gas (1.5.5)	Analytical Services (1.6.2)	Water Treatment (1.6.3)	Final Forms (1.6.4)	Supervisory Instrumentation and Control (1.6.5)
Receiving and Identification	Material Conveyance																	
Storage	Ancillary Systems/Equipment																	
Local Process I&C	Process Off-Gas																	
Receiving and Shipping (1.4.1)	Solids Feed Preparation (1.4.2)																	
Liquids Feed Preparation (1.4.3)	Mediated Electrochemical Oxidation (1.5.1)																	
Molten Salt Oxidation (1.5.2)	Experimental Off Gas (1.5.5)																	
Analytical Services (1.6.2)	Water Treatment (1.6.3)																	
Final Forms (1.6.4)	Supervisory Instrumentation and Control (1.6.5)																	

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000						
4. WBS ELEMENT CODE 1.6.2	5. WBS ELEMENT TITLE Analytical Services (LAB)							
6. REVISION NO. AND AUTHORIZATION 1 <i>De/SA</i>	7. DATE 3/12/95							
8. APPROVED CHANGES Title change, minor scope clarifications and text changes.	9. FUND TYPE CENRTC							
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Analytical Services	11. BUDGET AND REPORTING NUMBER 35EW32109							
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td>Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>The principle objective of Analytical Services is to provide chemical analysis support for process control and characterization, material control, and regulatory requirements. Functions of Analytical Services include sample management, analytical laboratory equipment, local process I&amp;C, external contracts, and process off-gas.</p> <p>c. Technical Content</p> <p>Analytical Services provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of chemical analysis equipment, Title III inspection, and acceptance test procedures (ATP). Analytical Services includes:</p> <table border="0"> <tr> <td>Analytical Services Equipment Local Process I&amp;C Process Off-Gas</td> <td>Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)</td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Analytical Services activities interface with:</p> <table border="0"> <tr> <td>Receiving and Shipping(1.4.1) Liquids Feed Preparation (1.4.3) Molten Salt Oxidation (1.5.2) Water Treatment (1.6.3) Supervisory Instrumentation and Control (1.6.5)</td> <td>Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)</td> </tr> </table>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	Analytical Services Equipment Local Process I&C Process Off-Gas	Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)	Receiving and Shipping(1.4.1) Liquids Feed Preparation (1.4.3) Molten Salt Oxidation (1.5.2) Water Treatment (1.6.3) Supervisory Instrumentation and Control (1.6.5)	Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment							
Analytical Services Equipment Local Process I&C Process Off-Gas	Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)							
Receiving and Shipping(1.4.1) Liquids Feed Preparation (1.4.3) Molten Salt Oxidation (1.5.2) Water Treatment (1.6.3) Supervisory Instrumentation and Control (1.6.5)	Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off Gas (1.5.5) Final Forms (1.6.4)							

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PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000						
4. WBS ELEMENT CODE 1.6.3	5. WBS ELEMENT TITLE Water Treatment (WTR)							
6. REVISION NO. AND AUTHORIZATION 1' <i>P/SJA</i>	7. DATE 3/12/95							
8. APPROVED CHANGES Scope and minor text changes (see 12.b and 12.c.).	9. FUND TYPE CENRTC							
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Water Treatment	11. BUDGET AND REPORTING NUMBER 35EW32109							
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor</td> <td>Staging and Checkout of Equipment Purchased Material, Services and Equipment</td> </tr> </table> <p>b. Element Description</p> <p>Water Treatment is a part of treatment train demonstrations. Water Treatment continues treatment of aqueous streams, which are part of demonstration tests, to produce solid residuals suitable for Final Forms, and fully treated water that meets treatment standards and sewer limits.</p> <p>c. Technical Content</p> <p>Water Treatment provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Water Treatment equipment, Title III inspection, and acceptance test procedures (ATP) to support MWMF treatment demonstrations. Water Treatment includes:</p> <table border="0"> <tr> <td>Water Treatment equipment Local Process I&amp;C</td> <td>Ancillary Systems/Equipment</td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this WBS element.</p> <p>e. Interfaces</p> <p>Waste Water Treatment activities interface with:</p> <table border="0"> <tr> <td>Solids Feed Preparation (1.4.2)</td> <td>Liquids Feed Preparation (1.4.3)</td> </tr> </table> <p>Via Process Transport and Storage: (1.4.x) to the following:</p> <ul style="list-style-type: none"> <li>Mediated Electrochemical Oxidation (1.5.1)</li> <li>Molten Salt Oxidation (1.5.2)</li> <li>Final Forms (1.6.4)</li> <li>Experimental Off Gas (1.5.5)</li> <li>Analytical Services (1.6.2)</li> <li>Supervisory Instrument and Control (1.6.5)</li> </ul>			Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment	Water Treatment equipment Local Process I&C	Ancillary Systems/Equipment	Solids Feed Preparation (1.4.2)	Liquids Feed Preparation (1.4.3)
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor	Staging and Checkout of Equipment Purchased Material, Services and Equipment							
Water Treatment equipment Local Process I&C	Ancillary Systems/Equipment							
Solids Feed Preparation (1.4.2)	Liquids Feed Preparation (1.4.3)							

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PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT MWMF/Project Office	2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000																						
4. WBS ELEMENT CODE 1.6.4#	5. WBS ELEMENT TITLE Final Forms (FFM)																							
6. REVISION NO. AND AUTHORIZATION 11	7. DATE 3/12/95	<i>F of SA</i>																						
8. APPROVED CHANGES Scope clarifications and minor text changes.	9. FUND TYPE CENRTC																							
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Final Forms	11. BUDGET AND REPORTING NUMBER 35EW32109																							
<p>12. ELEMENT TASK DESCRIPTION</p> <p>a. Cost Content (Labor and/or Materials)</p> <table border="0"> <tr> <td>Process Engineering</td> <td>Special Equipment Engineering (Title I, II, III design)</td> </tr> <tr> <td>Staging and Checkout of Equipment</td> <td>Installation and Start-up</td> </tr> <tr> <td>Purchased Material, Services and Equipment</td> <td>Acceptance Test Procedures (ATP) Labor</td> </tr> </table> <p>b. Element Description</p> <p>The Final Forms task is to immobilize the residues from the treatment of the mixed waste input streams by the primary processes, and residue resulting from secondary support processes that are integral to the primary treatment processes. The final form types are (1) ceramics for mineral residues, and (2) polymer microencapsulation for salt.</p> <p>c. Technical Content</p> <p>This WBS provides the management, system analysis and support, waste form production process development and testing, design (Title I, II, III) engineering, procurement, system assembly and check out, installation in the MWMF, Title III inspection, and acceptance test procedures (ATP). The Final Forms system includes:</p> <table border="0"> <tr> <td>Ceramics Final Form</td> <td>Polymer Encapsulation</td> </tr> <tr> <td>Ancillary Equipment</td> <td>Local Process I&amp;C</td> </tr> <tr> <td>Process Off-Gas</td> <td></td> </tr> </table> <p>d. Work Statement</p> <p>All work is performed in this and lower level WBS elements.</p> <p>e. Interfaces</p> <p>Final Forms system activities interface with:</p> <table border="0"> <tr> <td>Solids Feed Preparation (1.4.2)</td> <td>Liquids Feed Preparation (1.4.3)</td> </tr> <tr> <td>Mediated Electrochemical Oxidation (1.5.1)</td> <td>Molten Salt Oxidation (1.5.2)</td> </tr> <tr> <td>Wet Oxidation (1.5.3)</td> <td>Experimental Off Gas (1.5.5)</td> </tr> <tr> <td>Process Transport &amp; Storage (1.6.1)</td> <td>Analytical Services (1.6.2)</td> </tr> <tr> <td>Water Treatment (1.6.3)</td> <td>Supervisory Instrumentation and Control (1.6.5)</td> </tr> </table>			Process Engineering	Special Equipment Engineering (Title I, II, III design)	Staging and Checkout of Equipment	Installation and Start-up	Purchased Material, Services and Equipment	Acceptance Test Procedures (ATP) Labor	Ceramics Final Form	Polymer Encapsulation	Ancillary Equipment	Local Process I&C	Process Off-Gas		Solids Feed Preparation (1.4.2)	Liquids Feed Preparation (1.4.3)	Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)	Wet Oxidation (1.5.3)	Experimental Off Gas (1.5.5)	Process Transport & Storage (1.6.1)	Analytical Services (1.6.2)	Water Treatment (1.6.3)	Supervisory Instrumentation and Control (1.6.5)
Process Engineering	Special Equipment Engineering (Title I, II, III design)																							
Staging and Checkout of Equipment	Installation and Start-up																							
Purchased Material, Services and Equipment	Acceptance Test Procedures (ATP) Labor																							
Ceramics Final Form	Polymer Encapsulation																							
Ancillary Equipment	Local Process I&C																							
Process Off-Gas																								
Solids Feed Preparation (1.4.2)	Liquids Feed Preparation (1.4.3)																							
Mediated Electrochemical Oxidation (1.5.1)	Molten Salt Oxidation (1.5.2)																							
Wet Oxidation (1.5.3)	Experimental Off Gas (1.5.5)																							
Process Transport & Storage (1.6.1)	Analytical Services (1.6.2)																							
Water Treatment (1.6.3)	Supervisory Instrumentation and Control (1.6.5)																							

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1. PROJECT TITLE/PARTICIPANT MWMF/Project Office		2. DATE 3/10/94	3. IDENTIFICATION NUMBER 86D103-000
4. WBS ELEMENT CODE 1.6.5		5. WBS ELEMENT TITLE Supervisory Instrumentation and Control (SIC)	
6. REVISION NO. AND AUTHORIZATION 1		7. DATE 3/12/95	
8. APPROVED CHANGES Deleted equipment staging, minor scope clarifications and text changes.		9. FUND TYPE CENRTC	
10. SYSTEM DESIGN DESCRIPTION Number: TBD Title: Supervisory Instrumentation and Control		11. BUDGET AND REPORTING NUMBER 35EW32109	
12. ELEMENT TASK DESCRIPTION			
a. Cost Content (Labor and/or Materials)			
Equipment Engineering (Title I, II, III design) Installation Acceptance Test Procedures (ATP) Labor		Equipment Checkout Purchased Material, Services and Equipment	
b. Element Description			
The primary objective of the Supervisory Instrumentation and Control (SI&C) System is to provide a means of monitoring the facility and processes for status, analysis and reporting. The system provides a means of integrated control of all processes including analytical services, facilities and supporting processes. The system will also provide means for independent safety control systems for these processes as well as communications, CCTV surveillance, and instrumentation grounding systems.			
c. Technical Content			
Supervisory Instrumentation and Control provides the management, system analysis and support, design (Title I, II, III) engineering, procurement, installation of Supervisory Instrumentation and Control equipment, Title III inspection, and acceptance test procedures (ATP). Supervisory Instrumentation and Control includes:			
Supervisory Instrumentation and Control Integration Safety Control Ancillary Systems/Equipment		Facility Database Management System Process I&C Standards Supervisory Control System	
d. Work Statement			
All work is performed in lower level WBS elements.			
e. Interfaces			
Supervisory Instrumentation and Control activities interface with:			
Receiving and Shipping (1.4.1) Liquids Feed Preparation (1.4.3) Molten Salt Oxidation (1.5.2) Process Transport and Storage (1.6.1) Water Treatment (1.6.3)		Solids Feed Preparation (1.4.2) Mediated Electrochemical Oxidation (1.5.1) Experimental Off-Gas (1.5.5) Analytical Services (1.6.2) Final Forms (1.6.4)	

## **Appendix C**

### **Project Baseline Revision Log**

## Record of Key Project Baseline Revisions

Rev. Date: 4/18/95

Rev. ID <sup>1</sup>	Rev. Date	Major Changes	Major Impacts	Comments	TPC <sup>2</sup> (\$ K)	Disposition
0.0	Apr, 1994	Basis for <i>Conceptual Design Report</i> (CDR). Also used for FY96 Validation.	Basis for KD-1.	<ul style="list-style-type: none"> <li>Estimate reported by Automated Estimating System (AES).</li> </ul>	62,761	Validated by DOE Independent Cost Validation. Approved, with directed scope & funding changes (see Rev. 1)
1.0	Sep, 1994	DOE directed changes: <ul style="list-style-type: none"> <li>Delete WOX, UVP</li> <li>Meet FY Funding profiles</li> </ul> Impacts:	<ul style="list-style-type: none"> <li>Phased completion</li> <li>Schedule: MSO +4 mo, MEO +10 mo.</li> </ul>	No bottom-up; revised CDR AES information.	60,031	Approved by DOE/OAK.
1.1	Nov, 1994	Reflect DOE FY95 funding guidance, reduce outyear spending, merge DWTF/MWMMF	Reduce FY95 work from prior baseline plan to reflect reduced outyear funding guidance	Internal Revision; schedule only, used as basis for planning FY95 work. >FY96 costs not accurate	NA; FY95 only	Information reflected in FY95 Plan.
1.2	Apr, 1995	DOE directed changes <ul style="list-style-type: none"> <li>Co-locate DWTF/MWMMF (new const. for MWMMF)</li> <li>Reduce TPC</li> <li>Meet FY profiles</li> </ul>	<ul style="list-style-type: none"> <li>+12-month delay in project completion</li> <li>Modify MSO, MEO, other scope</li> <li>No LDRD tax</li> </ul>	<ul style="list-style-type: none"> <li>For FY97 Validation.</li> <li>Include new MSO multiple-vessel.</li> <li>Primavera rollover.</li> <li>New LLNL financial structure</li> </ul>	59,938	

<sup>1</sup> Integer ID values refer to revisions based on detailed bottom-up estimates. Non-integer values refer to revisions based on derivative changes from prior revisions, typically for purposes of DOE-directed or internal trade-off studies or where the revision does not warrant a detailed bottom-up basis (e.g., due to uncertainties in revision assumptions or value-added reasons).

<sup>2</sup> Total Project Costs (TPC). Project Management Plan defines baseline change control levels.

## **Appendix D**

### **Background on the Collocation of the MWMF and the DWTF**

## Background on the Collocation of the MWMF and the DWTF

This MWMF Rebaseline is in response to DOE guidance to merge the Mixed Waste Management Facility (MWMF) into a centralized DWTF Complex. The integrated plan was presented as part of the FY96 Validation for DWTF (December 1994) and the FY97 Validations for MWMF and DWTF in March, 1995. The rebaseline represents significant scope, schedule and cost changes relative to the CDR Baseline (April, 1994) and relative to the KD-1 revised Baseline (September 1994).

On August 4, 1994 LLNL was directed to evaluate a number of options for the siting and integration of the DWTF and MWMF projects. The goal of this evaluation was to identify potential cost savings, address the issue of Building 494 acquisition, assess waste-management efficiencies, and address issues identified in the "DOE OIG Tentative Finding and Recommendation on Need for the Decontamination and Waste Treatment Facility (DWTF)." The three options were (1) Maintain the projects as baselined with MWMF integrated into an upgraded Building 494 (DWTF Subproject B); (2) Provide a new facility for MWMF separate from DWTF; or (3) Integrate the two projects, MWMF and DWTF, onto a common site. Results of these evaluations were briefed to DOE over the months of August and September 1994, resulting in the decision by DOE on 9/7/94<sup>1</sup> to pursue the third option—a merged site for DWTF and MWMF.

The preliminary results of this investigation indicated that integrating the projects into a common complex offers the potential for cost savings over two independent facilities, provides for a more efficient waste management operation by using specific common areas, supports the Draft Site Treatment Plan for the transition of demonstrated technologies to treatment, and addresses a number of the issues raised in the OIG report. The combined DWTF, formerly DWTF Subproject A and Subproject B, will continue to support *both* primary missions of the DWTF and MWMF projects: to provide a facility for the treatment, storage, and packaging/repackaging of LLNL waste as identified in the LLNL Site Treatment Plan, and to provide for a national testbed for the integrated demonstration of mixed waste treatment technologies that are potential alternatives to incineration.

This cost savings<sup>2</sup> is accomplished by joining a number of similar functions (common areas such as change rooms, restrooms, storage, decontamination, analytical laboratory) and by collocating certain functional units such as Final Forms and Water Treatment. These changes result in a reduction of total facility square footage (as compared to two stand-alone facilities as discussed in DWTF Rebaseline documentation), a reduction of similar equipment where functional needs are

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<sup>1</sup>Meeting at LLNL with DOE; Ray Corey, Hannibal Joma, Karin King, Vern Anderson, Bob Pankhurst, and LLNL; Ron Streit, Keith Gilbert, Bill Huddleston, Alan Throop, Judy Steenhoven, Joel Bowers, Scott Couture, Bob Nyholm and George Kan. Additional follow-up conference call with DOE/HQ including Lynne Wade, Debbie Rawlings, Denis Blendhauer.

<sup>2</sup>Positive cost savings relating to scope reduction and integration of functions. As discussed later, schedule delays relating from new construction, permitting and available DOE funding profiles have significant negative cost impacts.

compatible between HWM and MWMF, and integration of start-up and activation personnel requirements with HWM operations staff. The merging of the facilities into the same complex does result in significant schedule stretch-out, which will impact the potential savings.

Table 1 summarizes the overall cost reconciliation of integrating the projects into common facilities. To achieve these cost savings, certain additional costs are incurred by DWTF (where the DWTF becomes the lead project for a specific element), whereas other costs are borne by MWMF/DWTF (where the MWMF becomes the lead project for a specific element). As an integrated effort, there is a net cost savings for the combination. For instance, an increase observed in the Analytical Services element of MWMF is more than offset by the reduction of required laboratory space and equipment needs in DWTF. However, certain costs will be incurred that are not recoverable, such as stretch-out and escalation. Additionally, scope changes directed by DOE have modified specific elements of the overall project to meet cost objectives. The net reduction is approximately \$12.6M, divided roughly as follows: \$9.5M from the merging of the facility (DWTF) and \$3.1M from the corresponding re-scoping of MWMF.

Additional cost saving will be realized by more efficient operations once the facilities are activated by making common use of training personnel and facilities, using HWM operations technical staff to support demonstrations, and by reducing the extent of transportation between HWM and MWMF facilities. These additional operational costs have not been included in the cost savings identified in this rebaseline, because the operations after activation are outside the scope of the MWMF Project.

However, although some economies can be achieved by such combinations, it is very important to maintain clear separation of functions when required for legal, permitting, or scientific (demonstration) reasons. For instance, the requirements for demonstrating a process train relative to EPA requirements will require a significantly different set of analysis, waste and/or surrogate characterization, and feed preparation than may ultimately be employed for the same process technologies in a treatment role. The demonstration plan allows for evaluating the process technologies over a period of 1 to 3 years, with a broad spectrum of waste feeds. After successful demonstration, there will be a transition to treatment in which the selected systems will be modified and/or relocated to meet Part B permit requirements. By providing clear separation—either by separate facility or area within the DWTF complex—the permitting and other issues can be resolved to the satisfaction of all parties.

Once the processes are transitioned to treatment, they will fulfill the role identified in the LLNL Site Treatment Plan for providing a long-term solution for treating specific LLNL mixed waste. The two primary technologies to be demonstrated, molten salt oxidation and mediated electrochemical oxidation, offer the potential to treat a wide range of liquid and solid organic mixed-waste streams. There is currently no viable treatment option for dealing with such waste streams at LLNL. Before including MWMF as a treatment option, the plan for these waste streams was to ship off-site (out of state) for storage, processing, and finally incineration. The "off-site" option, however, has significant risk associated with the long-term viability of shipping mixed waste out of state and the acceptance of incineration as a treatment option.

The infrastructure being designed for MWMF provides for both the demonstration mission as well as meeting LLNL Site Treatment Plan requirements. As a demonstration

facility, additional capability is incorporated into the facility infrastructure design to provide for future treatment options. This flexibility was identified by the Mixed Waste Focus Area as an important aspect of a national testbed. It should be maintained as a requirement to address this function even though it may be greater than the perceived requirements for the LLNL-only mission.

While the projects can be combined in location and can share common functions, combining the DWTF with MWMF into a single project is a separate issue. DWTF will be the Laboratory's centralized waste storage and treatment facility. Once the equipment has been approved for specific operations and incorporated into the Site Part B permit modification, it will be part of the ongoing Hazardous Waste Management operations. MWMF, on the other hand, is a demonstration project. It will evaluate technologies that may or may not prove effective or meet equivalency to the EPA's best demonstrated available technology (BDAT) requirements. In addition, demonstrations, as a national testbed, may be directed toward evaluating surrogates and/or wastes and facilities at other DOE sites. Even if effective, these may be removed from the facility after completion of the demonstrations. Based on these issues, the DOE/OAK CFO has determined that the projects should remain independent. This will help keep separate the varied missions of the two elements and provide an accounting mechanism for the treatment processes to be integrated into the DWTF. It will also avoid costing into the TPC technologies that do not prove effective and those technologies that are effective but not appropriate for LLNL waste streams (e.g., demonstrated as part of the national mission of the MWMF).

Table 1. Summary of savings by integrating MWMF and DWTF into a common complex.

Option		"Comparison" Budget, Co-located facilities	Offsets resulting from schedule slip & omitted items	Item Description	
	\$M	\$M	\$M	\$M	
DWTF	\$60.1	\$62.6	\$62.6		
DWTF Sub-project B	\$17.4	(included above)	(included above)	\$2.0	Site Prep for MWMF
				\$2.5	Liquid Waste I&C
				\$1.5	Escalation
				\$0.7	Phased Const.
Offset adjustments			\$6.7		
Adjusted DWTF			\$69.3		DWTF Rebaseline estimate
MWMF	\$62.8	\$55.0	\$55.0		
				\$1.5	Escalation
Offset adjustments			\$4.7	\$3.2	Stretch-out costs
Adjusted MWMF			\$59.7		MWMF Rev. 1.2 Baseline estimate
Sub-Total	\$140.3	\$117.6	\$129.0		
Add'l Adjustments					
D&D to OPC	(\$2.3)				
Add'l Identified Savings			(\$1.3)		
Add'l unidentified Cost Sav.			(\$1.7)		
Totals	\$138.0	\$117.6	\$126.0		
Cost Savings		\$20.4	\$12.0		

Base on similar schedule as proposed for DWTF Option -B and MWMF, CDR

## **Appendix E**

### **Level 3 and Level 4 Schedules**

FY94		FY95			FY96			FY97			FY98			FY99																			
JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC																
<b>KEY PROJECT MILESTONES</b>																																	
<p>◇ MNMF PROJECT PRELIMINARY DESIGN REVIEW (PDR)</p> <p>◇ KD-2 PROCEED WITH TITLE II (FINAL) DESIGN by Alan L. Throop</p> <p>◇ MNMF PROJECT FINAL DESIGN REVIEW (FDR)</p> <p>◇ KD-3 APPROVAL TO PROCEED WITH TITLE III DESIGN</p> <p>◆ BENEFICIAL OCCUPANCY (BO)</p> <p>◇ BEGIN INTEGRATED TESTING</p> <p>◇ BEGIN OPERATIONAL TESTING</p> <p>◇ KD-4 - FACILITY &amp; MSO SYSTEM COMPLETE</p> <p>◆ INITIAL OPERATIONS</p> <p>◆ MEO SYSTEM COMPLETE / PROJECT COMPLETED</p>																																	
<p>Received</p> <p>MAR 5 1995</p>																																	
<b>MBS 1.1 PROGRAM SUPPORT &amp; ASSURANCES</b>																																	
<b>1.1.1 QUALITY ASSURANCE</b>																																	
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<b>1.1.2 PSAR</b>																																	
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<b>1.1.3 NEPA / CEQA</b>																																	
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<b>1.1.4 ES&amp;H</b>																																	
<b>1.1.5 PROGRAM SUPPORT</b>																																	
Project Office / Operations																																	
<b>1.1.6 PUBLIC PARTICIPATION</b>																																	
<b>MBS 1.2 OPERATIONS SUPPORT</b>																																	
<b>1.2.1 CONCEPTUAL DESIGN</b>																																	
◆ Conceptual Design - FY94 Costs to Date																																	
<b>1.2.2 PLANT START UP MANAGEMENT</b>																																	
Startup Management & Planning																																	
<p>Plot Date 3/06/95</p> <p>Data Date 10/27/94</p> <p>Project Start 11/01/93</p> <p>Project Finish 20/2/96</p> <p>Activity Bar/Early Date</p> <p>Critical Activity</p> <p>Progress Bar</p> <p>Attention/Plan activity</p> <p>◇/P</p>																																	
<p>MIXED WASTE MANAGEMENT FACILITY</p> <p>FOR REVIEW &amp; COMMENT ONLY</p> <p>LEVEL III SCHEDULE</p>																																	
<p>(c) Primavera Systems, Inc.</p> <p>Sheet 1 of 4</p>																																	
<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>																		Date	Revision	Checked	Approved												
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FY94		FY95			FY96			FY97			FY98			FY99																	
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1.2.3 ACTIVATION		Activation																													
MBS 1.3 PROJECT INTEGRATION																															
1.3.1 PROJECT MANAGEMENT																															
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1.3.2 PROJECT CONTROL																															
Project C																															
1.3.3 TECHNICAL SYSTEMS INTEGRATION																															
MBS 1.4 FEED PREPARATION SYSTEMS																															
1.4.1 RECEIVING & SHIPPING (RAS)		Title I - Preliminary Design Title II - Final Design Title III - Engineering Support Procurements Assembly & Checkout Equipment Installation & ATP																													
1.4.2 SOLIDS FEED PREPARATION (SFP)		Title I - Preliminary Design Title II - Final Design Title III - Engineering Support Procurements - Solids Feed Prep Assembly & Checkout - Solids Feed Prep Equipment Installation & ATP																													
1.4.3 LIQUIDS FEED PREPARATION (LFP)		Title I - Preliminary Design Title II - Final Design Title III - Engineering Support Procurements Assembly & Checkout Installation & ATP																													
MBS 1.5 WASTE PROCESSING SYSTEMS																															

FY94	FY95	FY96	FY97	FY98	FY99
JUL/AUG/SEP	OCT/NOV/DEC	JAN/FEB/MAR/APR/MAY/JUN/JUL/AUG/SEP	OCT/NOV/DEC	JAN/FEB/MAR/APR/MAY/JUN/JUL/AUG/SEP	OCT/NOV/DEC
<b>1.5.1 MEDIATED ELECTROCHEMICAL OXIDATION</b>					
		Engineering Development			
	Title I - MEO Preliminary Design	Title II - MEO Final Design	Title III - Engineering Support (FY97)	Procurements	
			Title III - Engineering Support (FY98)	Primary System Assembly & Check	ATP
	MEO Equipment Installation (FY97 & 98)				
<b>1.5.2 MOLTEN SALT OXIDATION (MSO)</b>					
	Title I - Preliminary Engineering & Design	Title II - Final Engineering & Design			
	Title III - Engineering Support		Procurements & Fabrications	Assembly & Checkout	Installation & ATP
<b>1.5.5 EXPERIMENTAL OFFGAS (X06)</b>					
	Technology Development				
	Title I - Preliminary Design	Title II - Final Design	Title III - Engineering Support		
		Procurements & Fabs - Experimental Off-Gas	Staging, Checkout & Integrated Testing	Equipment Installation - Experimental Off-Gas	Technology Development
<b>MBS 1.6 PROCESS SUPPORT SYSTEMS</b>					
<b>1.6.1 PROCESS TRANSPORT &amp; STORAGE (PTS)</b>					
	Title I - Preliminary Design	Title II - Final Design	Title III - Engineering Support		
		Procurements	Assembly & Checkout	Equipment Installation & ATP	



Received

FY95		FY96		FY97		FY98		FY99						
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>PROJECT MILESTONES</b>														
<p> <input type="checkbox"/> HWF PROJECT PRELIMINARY DESIGN REVIEW F190  <input type="checkbox"/> HWF-2 PROCEED WITH TITLE II FINAL DESIGN  <input type="checkbox"/> HWF PROJECT FINAL DESIGN REVIEW F190  <input type="checkbox"/> HWF-3 APPROVAL TO PROCEED WITH TITLE III DESIGN  <input type="checkbox"/> PHYSICAL OCCUPANCY B40  <input type="checkbox"/> SEND OPERATIONAL TESTING  <input type="checkbox"/> SEND OPERATIONAL TESTING  <input type="checkbox"/> INITIAL OPERATIONS  <input type="checkbox"/> HWF-4 - FACILITY &amp; HWF SYSTEM COMPLETE  <input type="checkbox"/> HWF SYSTEM COMPLETE / PROJECT COMPLETED         </p>														
<b>MRS 1.1 PROGRAM SUPPORT &amp; ASSURANCES</b>														
<b>1.1.1 QUALITY ASSURANCE</b>														
Quality Assurance - F195														
<b>1.1.2 PSAR</b>														
Completion of PSAR - F195														
<b>1.1.3.1 NEPA</b>														
NEPA - F195														
<b>1.1.3.2 CEQA &amp; PERMITS</b>														
Prep of RMD Permit & Assoc CEQA Analysis - F195														
CEQA / Permits - F197														
<b>1.1.4 ESSH</b>														
ESSH - F195														
<b>1.1.5.1 PROJECT OFFICE</b>														
Task "1" - General Program Support														
Task "2" - General Program Support														
Task "3" - Technology Transfer														
Task "4" - ID Support														
Task "5" - General Program Support F198														
Task "6" - Technology Transfer														
Task "7" - General Program Support F198														
Task "8" - Technology Transfer														
Task "9" - Scientific Program Support														
Task "10" - Scientific Program Support														
Task "11" - Scientific Program Support														
<b>1.1.5.4 TECHNICAL SUPPORT TO PROJECT OFFICE</b>														
Task "12" - Scientific Program Support														
Task "13" - Scientific Program Support														
Task "14" - Scientific Program Support														
<b>1.1.6 PUBLIC PARTICIPATION</b>														
<b>MRS 1.2 OPERATIONS SUPPORT</b>														
<b>1.2.2 PLANT STARTUP MANAGEMENT</b>														
Task "15" Monitor Design, High-Level Plans														
Task "16" Assist in Early Planning During RIR														
Task "17" Assist Material Control Management														
Task "18" General Plant Development														
Startup Management & Planning														
Task "19" Monitor Design, High-Level Plans														
Task "20" Assist in Early Planning During RIR														
Task "21" Assist Material Control Management														
Task "22" General Plant Development														
Task "23" - Scientific Program Support														
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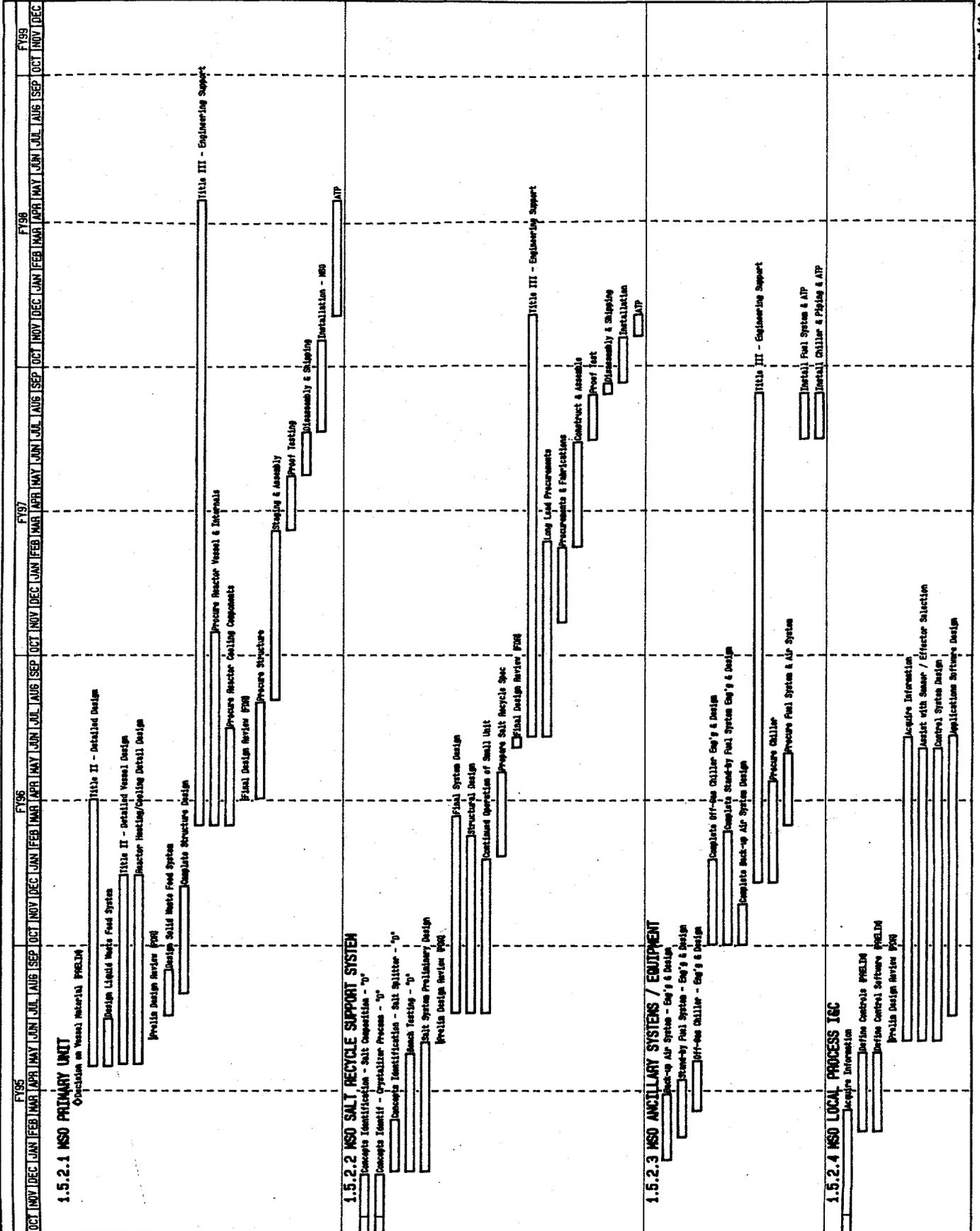
MIXED WASTE MANAGEMENT FACILITY  
FOR REVIEW & COMMENT ONLY  
LEVEL IV SCHEDULE

SHEETS: 260005  
 DATA SHEET: 260074  
 PROJECT START: 1/1/95  
 PROJECT FINISH: 2/28/98  
 OFFICE: 260005  
 PROJECT NO.: 260074  
 SHEET NO.: 260078



FY95			FY96			FY97			FY98			FY99														
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>1.4.1 RECEIVING &amp; SHIPPING (RAS)</b>																										
<p>Procurement - Container Characterization</p> <p>Procurement - RAS Local Process IC</p> <p>Assembly &amp; Checkout</p> <p>Procurement - Container Transport</p> <p>Equipment Installation &amp; ATP</p>																										
<b>1.4.2 SOLIDS FEED PREPARATION (SFP)</b>																										
<p>Preliminary Design - Container Receiving</p> <p>Detailed Design - Definitive Sorting</p> <p>Processing</p> <p>Container Management</p> <p>In-Process Storage</p> <p>Facility Systems &amp; Equip</p> <p>SFP Local Process IC</p> <p>Decommissioning</p> <p>Final Design - SFP Local Process IC</p> <p>Final Design Review FTR - Solids Feed Prep</p> <p>Container Receiving</p> <p>Definitive Sorting</p> <p>Processing</p> <p>Container Management</p> <p>In-Process Storage</p> <p>Facility Systems &amp; Equip</p> <p>SFP Local Process IC</p> <p>Decommissioning</p> <p>Final Design Review FTR - Solids Feed Prep</p> <p>Title III Eng's Supt - Container Receiving</p> <p>Title III Eng's Supt - Definitive Sorting</p> <p>Title III - Eng's Supt for Processing</p> <p>Title III - Eng's Supt for Container Management</p> <p>Title III - Eng's Supt for In-Process Storage</p> <p>Title III - Eng's Supt // Facility Sys &amp; Equip</p> <p>Title III - Eng's Supt // SFP Local Process IC</p> <p>Title III - Eng's Supt for Decommissioning</p> <p>Procurement - Solids Feed Prep</p> <p>Assembly &amp; Checkout - Solids Feed Prep</p> <p>Equipment Installation &amp; ATP</p>																										
<b>1.4.3 LIQUIDS FEED PREPARATION (LFP)</b>																										
<p>Preliminary Design - Container Receiving</p> <p>Container Emptying</p> <p>Liquid / Solid Separation</p> <p>Liquid / Liquid Separation</p> <p>In-Process Storage</p> <p>Facility Equipment</p> <p>LP Local Process IC</p> <p>Decommissioning</p> <p>Final Design Review FTR - Liquids Feed Prep</p> <p>Container Receiving</p> <p>Container Emptying</p> <p>Liquid / Solid Separation</p> <p>Liquid / Liquid Separation</p> <p>In-Process Storage</p> <p>Facility Equipment</p> <p>LP Local Process IC</p> <p>Decommissioning</p> <p>Final Design Review FTR - Liquids Feed Prep</p> <p>Title III Eng's Supt - Container Receiving</p> <p>Title III Eng's Supt - Container Emptying</p> <p>Title III Eng's Supt - Liquid / Solid Sep</p> <p>Title III Eng's Supt - Liquid / Liquid Sep</p> <p>Title III Eng's Supt - In-Process Storage</p> <p>Title III Eng's Supt - Facility Equipment</p> <p>Title III Eng's Supt - LP Local Process IC</p> <p>Title III Eng's Supt - Decommissioning</p>																										

		FY95			FY96			FY97			FY98			FY99															
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<b>1.4.3 LIQUIDS FEED PREPARATION (LFP)</b>																													
<b>MDS 1.5 WASTE PROCESSING SYSTEMS</b>																													
<b>1.5.1 MEDIATED ELECTROCHEMICAL OXIDATION</b>																													
Engineering Development - F195																													
MED Preliminary Design Review PDR																													
Prepare Specs for Long Lead Procurements																													
Place Long Lead Procurements																													
MED Final Design Review FDR																													
MED Equipment Installation F197 & 98																													
Staging & Support																													
Procure & Deliver Regular Procurement Items																													
ATP																													
<b>1.5.1.1 MED PRIMARY SYSTEM</b>																													
MED Primary System Title I Design																													
Title II - MED Primary System Final Design																													
Primary System Assembly & Check																													
<b>1.5.1.2 MED ACID RECOVERY SYSTEM</b>																													
MED Acid Recovery System Title I Design																													
Title II - Acid Recovery System Final Design																													
Assemble & Check Acid Recovery Unit																													
<b>1.5.1.3 MED SILVER RECOVERY SYSTEM</b>																													
MED Silver Recovery System Title I Design																													
Title II - Silver Recovery System Final Design																													
Assemble & Check Ag Recovery Unit																													
<b>1.5.1.4 MED ANCILLARY SYSTEMS &amp; EQUIPMENT</b>																													
MED Ancillary System/Equipment Title I Design																													
Title II - Ancillary Sys / Equip Final Design																													
Assemble & Check Ancillary Equipment																													
<b>1.5.1.5 MED LOCAL PROCESS I&amp;C</b>																													
MED Local Process I&C Title I Design																													
Title II - MED Local Process I&C																													
I&C Procurement - MED																													
<b>1.5.1.6 MED PROCESS OFF-GAS</b>																													
MED Process Off-gas Title I Design																													
Title II - Process Off-gas Final Design																													
Assemble & Check Off-gas Assembly																													
<b>1.5.2 MOLTEN SALT OXIDATION (MSO)</b>																													
MED Salt Oxidation Med - F194																													
Title I - Preliminary Engineering & Design																													
Title II - Final Engineering & Design																													
Procurement & Fabrication																													
Assembly & Checkout																													
Title III - Engineering Support																													
Installation & ATP																													
<b>1.5.2.1 MSO PRIMARY UNIT</b>																													
Title I - Preliminary Design																													
Preliminary Vessel Reactor Design																													
Preliminary Vessel Oxidation System Design																													
Preliminary Vessel Design																													
Design & Develop Injectors & Feed System																													
Preliminary Vessel Support Design																													
Design Structure																													



FY95		FY96		FY97		FY98		FY99						
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>1.5.2.4 MSO LOCAL PROCESS IGC</b>														
Final Design Review PDR - MSO IGC Design														
Title III Engineering Support														
Installation & Test														
<b>1.5.2.5 MSO PROCESS OFF-GAS</b>														
Study Salt Alternatives & Encrustment														
Study Salt Blower Technology														
Size Heat Exchangers														
Size Piping														
Prelim Design Review PDR														
Title II - Final Design														
Complete Salt Blower Design														
Complete Heat Exchanger Design														
Complete Piping Design														
Final Design Review FDR														
Process Salt Blower														
Process Piping, Installation, H's & O's														
Start-up Off-gas System														
Install on MSO Unit														
MIP														
Title III - Engineering Support														
<b>1.5.5 EXPERIMENTAL OFF-GAS (X06)</b>														
Technology Development														
Title I - Preliminary Design														
Prelim Design Review PDR														
Title II - Final Design														
Final Design Review FDR - Experimental Off-gas														
Procurements & Fabrication - Experimental Off-gas														
Start-up, Assembly, Checkout & Integrated Testing														
Equipment Installation - Experimental Off-gas														
Technology Development														
<b>MSO 1.6 PROCESS SUPPORT SYSTEMS</b>														
<b>1.6.1 PROCESS TRANSPORT &amp; STORAGE (PTS)</b>														
Title I - Preliminary Design														
Prelim Design Review PDR														
Title II - Final Design														
Final Design Review FDR - Process Trains & Start														
Procurements														
Assembly & Checkout														
Title III - Engineering Support														
Equipment Installation & AP														
<b>1.6.2 ANALYTICAL LABORATORY (LAB)</b>														
Analytical Lab - Title I - Preliminary Design														
Prelim Design Review PDR														
Analytical Lab - Title II - Final Design														
Final Design Review FDR														
Analytical Lab - Procurements														
Analytical Lab - LIMS Management														
Analytical Lab - Title III - Eng's Support														
Analytical Lab Scope & Prepare External Contract														
Analytical Lab - Installation														
Analytical Lab - Acceptance Testing														
Analytical Lab - Operational Tests														
<b>1.6.2.3 LAB LOCAL PROCESS IGC</b>														
Analytical Lab - Title I - Prelim Local IGC Design														
Analytical Lab - Title II - Local IGC Final Design														

FY85			FY86			FY87			FY88			FY89		
DEC	NOV	OCT	DEC	NOV	OCT	DEC	NOV	OCT	DEC	NOV	OCT	DEC	NOV	OCT
<b>1.6.2.3 LAB LOCAL PROCESS IEC</b>														
analytical Lab - Title III - IEC Dev'g support														
<b>1.6.3 WATER TREATMENT (MTR)</b>														
Title I - Preliminary Engineering & Design														
Water Treatment - Preliminary Design														
IAC System Preliminary Design - Water Treatment														
Optimize Design Review (MTR)														
Title II - Final Engineering & Design														
IAC System Final Design - Water Treatment														
Complete Drawings														
Prepare Specs for Procurements														
Prep for Final Design Report & Review (MTR)														
Official Design Review (MTR) - Water Treatment														
Placement of Purchase Orders														
Mechanical Bid Evaluation														
Monitor Purchasing & Vendor Performance														
Procurements														
Receive & Assemble Submittals														
Procedure Development														
Install & Checkout IEC Hardware - Meter Track														
Install Mechanical Hardware - Water Treatment														
Checkout & Test Submittals														
Integrate Systems & Controls														
Perform Integrated System Test														
<b>1.6.4.1 CERAMIC FIBERS FABRICATION SYSTEM</b>														
Title I - Ceramic Development														
Title I - Ceramic System Design														
Title II & III - Ceramic System Design														
Title II - Ceramic Development														
<b>1.6.4.2 POLYMER ENCAPSULATION SYSTEM</b>														
Title I - Polymer Encapsulation Development														
Title I & II - Polymer Encapsulation Development														
Title I & II - Polymer Encapsulation System Design														
Title III - Polymer Encapsulation System Design														
<b>1.6.4.3 ANCILLARY SYSTEMS / EQUIPMENT</b>														
Title I Design - Ancillary System														
Early Facility Procurements														
Facility Procurements														
Title II & III Design - Ancillary System														
<b>1.6.4.4 FFN LOCAL PROCESS IEC</b>														
Title I - Local Process IEC Design														
<b>1.6.4.5 FFN PROCESS OFF-GAS</b>														
Title I - Process off-gas Design														
Title II & III - Process off-gas Design														
<b>1.6.4.6 STAGE 6 SYSTEM ASSEMBLY</b>														
Stage 6 System Assembly														
<b>1.6.4.7 INSTALLATION &amp; ACCEPTANCE TEST (ATP)</b>														
Installation & Acceptance Test (ATP)														
<b>1.6.5 SUPERVISORY INSTRUMENTATION &amp; CONTROL</b>														
Procurements - FFN Certs to I&C														
Technology Development														
Procurements - FFN														

FY95		FY96		FY97		FY98		FY99						
OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>1.6.5 SUPERVISORY INSTRUMENTATION &amp; CONTROL</b>														
<b>1.6.5.1 FACILITY DATABASE MANAGEMENT SYSTEM</b>														
Pre-Design - Facility Database Monitoring														
Title I Design - Facility Database Monitoring														
Title II Design - Facility Database Monitoring														
Title III Eng's Support - Facility Database Maint'g														
<b>1.6.5.2 SAFETY CONTROL SYSTEMS</b>														
Title I Design - Safety Control System														
Title II Design - Safety Control System														
Title III Eng's Support - Safety Control System														
<b>1.6.5.3 PROCESS IAC STANDARDS</b>														
Pre-Design - Process IAC Standards														
Title I Design - Process IAC Standards														
Title II Design - Process IAC Standards														
Title III Eng's Support - Process IAC Standards														
<b>1.6.5.4 ANCILLARY SYSTEMS &amp; EQUIPMENT</b>														
Pre-Design - Ancillary Systems & Equipment														
Pre-Design - Power Distribution & Rewinding														
Pre-Design - Central Control Facilities														
Title I Design - Instr & Equip Database														
Title I Design - Facility Comm Network														
Title I Design - Ancillary Systems & Equipment														
Title I Design - CCTV														
Title I Design - Cable Distribution														
Title I Design - Power Distribution & Rewinding														
Title I Design - Central Control Facilities														
Title II Design - Instr & Equip Database														
Title II Design - Inservice														
Title II Design - CCTV														
Title II Design - Cable Distribution														
Title II Design - Facility Comm Network														
Title II Design - Ancillary Systems & Equipment														
Title II Design - Power Distribution & Rewinding														
Title II Design - Central Control Facilities														
Title III Eng's Support - Inservice														
Title III Eng's Support - Instr & Equip Database														
Title III Eng's Support - Inservice														
Title III Eng's Support - CCTV														
Title III Eng's Support - Cable Distribution														
Title III Eng's Support - Facility Comm Network														
Title III Eng's Support - Ancillary Systems & Equipment														
Title III Eng's Support - Power Distr & Rewind'g														
Title III Eng's Support - Central Ctrl Facility														
Title III Eng's Support - Facilities Comm Net														
<b>1.6.5.5 STAGE 6 SYSTEM ASSEMBLY</b>														
Title III Eng's Support - Auxiliary Sys & Equip														
Title III Eng's Support - Inservice														
Title III Eng's Support - CCTV														
Title III Eng's Support - Cable Distribution														
Title III Eng's Support - Facility Comm Network														
Title III Eng's Support - Ancillary Systems & Equipment														
Title III Eng's Support - Power Distr & Rewind'g														
Title III Eng's Support - Central Ctrl Facility														
Title III Eng's Support - Facilities Comm Net														
<b>1.6.5.7 SUPERVISORY CONTROL SYSTEM</b>														
Title I Design - Supervisory Control System														
Title II Design - Supervisory Control System														
Title III Eng's Support - Supervisory Control Sys														
Installation & Acceptance Testing (IAT)														
Inservice & System Assembly														

## **Appendix F**

### **Log of Key MWMF Milestones**

DATE: 4/4/95

**MWMF LOG - Key Project Milestones**

MILESTONE	DATE	DATE	DATE	COMMENTS
	Rev. 0	Rev. 1.0	Rev. 1.2	
Issue CDR	4/15/94	4/30/94	5/1/94	COMPLETE 4/29/94
Receive KD-1; begin Title I	4/29/94	6/30/94	6/30/94	COMPLETE 6/30/94
Begin Facility Title I*	4/1/94	7/1/94	3/1/95	COMPLETE 3/1/95
Complete 90% Title I review	9/15/94	1/15/95	7/15/95	
Receive KD-2; begin Title II	9/30/94	1/30/95	7/30/95	
Begin Long-Lead Procurements	12/15/94	7/2/95	1/1/96	
Complete 90% Title II review	3/15/95	8/1/95	7/15/96	
Design Complete; Receive KD-3	3/30/95	8/15/95	7/30/96	
Begin Major Procurements	3/30/95	8/15/95	7/30/95	
Receive Building Beneficial Occupancy*	12/30/95	4/15/96	7/1/97	
Begin Installation	1/1/96	4/30/96	7/15/97	
Phase A Construction Complete (Installation & Eng. Tests)	8/15/96	12/15/96	12/30/97	
Phase A Operational Tests Complete	12/15/96	3/15/97	4/15/98	
Receive Phase A KD-4; Initial Operations Begin	12/30/96	3/30/97	4/30/98	
Phase B Construction Complete (Installation & Eng. Tests)	NA	6/15/97	6/15/98	
Phase B Operational Tests Complete	NA	9/15/97	9/15/98	
Issue Phase B KD-4; Project Complete	NA	9/30/97	9/30/98	

\* DWTF Milestone, important for MWMF

## **Appendix G**

### **Escalated FY Cost Profiles at Level 3**

**WBS Level 3 Fiscal Year Cost Profile -- TOTAL COST, Rev 1.2**

Note: \$K, Budget Outlay (BO), escalated, including management reserve (Ref. file z50301 Rev. 1.2)

	Actual FY93	Actual FY94	Estimate FY95	Estimate FY96	Estimate FY97	Estimate FY98	Estimate At Completion
1.1.1 QA		105	38	40	42	37	262
1.1.2 PSAR		342	20	COMPLETED			361
1.1.3 Environ. Documen.		190	247	295	55		787
1.1.4 ES&H		136	162	160	164	213	835
1.1.5 Prog. Support		1904	434	449	616	335	3739
1.1.6 Public Part.		11	97	100	106	111	426
1.2.1 Concept. Design	483	1754		COMPLETED			2237
1.2.2 Start-up Mgmt			110	304	1169	435	2018
1.2.3 Activation					694	4452	5146
1.3.1 Proj. Mgmt		169	1000	983	991	568	3710
1.3.2 Proj. Control		157	532	605	641	499	2433
1.3.3 Tech. Integ.		106	361	332	351	368	1518
1.4.1 Rec. & Ship		30	174	99	101	21	425
1.4.2 Solid Feed Prep.		158	1141	1340	2958	587	6184
1.4.3 Liquid Feed Prep.		143	329	507	885	297	2160
1.5.1 Med. Electr. Oxid.		717	1100	1106	2337	1763	7023
1.5.2 Molten Salt. Oxid		438	3033	2743	2549	890	9654
1.5.3 Wet Oxidation		98	DELETED FROM SCOPE (Rev. 1)				98
1.5.4 UV Photolysis		24	DELETED FROM SCOPE (Rev. 1)				24
1.5.5 Expt. Off Gas		108	187	0	0	194	489
1.6.1 Transp. & Storage		26	109	233	376	54	798
1.6.2 Anal. Services		36	191	414	788	585	2014
1.6.3 Water Treat.		31	151	195	474	410	1262
1.6.4 Final Forms		367	414	596	842	348	2566
1.6.5 Supv. I&C		477	628	668	1026	625	3425
Other: LDRD		342					342
<b>OPEX SUBTOTAL</b>	483	4442	873	1052	2792	5584	15226
<b>CENRTC SUBTOTAL</b>	0	3427	9584	10117	14374	7210	44712
<b>PROJECT TOTAL</b>	483	7869	10457	11169	17166	12794	59938

**MWMF Project Baseline, Revision 1.2**

## **Appendix H**

### **Unescalated Costs at Level 3, with Summary Reconciliation**

DATE: 4/24/95

## UNESCALATED COST &amp; RECONCILIATION SUMMARY AT WBS LEVEL 3 FOR REVISION 1.2

Note: Actual costs and unescalated FY95 dollars in \$K unless otherwise noted

WBS Elements	Base Cost	Mngmt. Reserve	TOTAL	TOTAL	Cost Reconciliation & Comments	
	Act+Est (\$K)	(\$K)		EAC (%)		Prior Rev 1.0
1.1.1 QA	235	20	9%	255	120	Included prior costs, forgotten in Rev. 1.0
1.1.2 PSAR	361	0	0%	361	442	Activity completed in FY95
1.1.3 Environ. Documen.	776	0	0%	776	421	Added PRAG costs, per DOE request; transfers OE to CE
1.1.4 ES&H	803	0	0%	803	488	Stretchout; additional team coverage
1.1.5 Prog. Support	3400	262	8%	3662	2172	Higher FY94 actual (KD-1 delay); Stretchout; added MR
1.1.6 Public Part.	407	0	0%	407	570	Reduce scope and estimate
1.2.1 Concept. Design	2237	0	0%	2237	2049	Accrued costs before accounts closed
1.2.2 Start-up Mgmt	1700	205	12%	1905	2585	Reduce by merge
1.2.3 Activation	4222	507	12%	4729	4525	Reduce by merge
1.3.1 Proj. Mgmt	3106	471	15%	3577	2782	Stretchout; add MR
1.3.2 Proj. Control	2138	198	9%	2336	1698	Stretchout
1.3.3 Tech. Integ.	1334	123	9%	1457	949	Stretchout; Increase by merge (facility); add MR
1.4.1 Rec. & Ship	370	45	12%	415	604	Reduce by scope and value engineering
1.4.2 Solid Feed Prep.	5320	606	11%	5926	7019	Reduce by scope and value engineering
1.4.3 Liquid Feed Prep.	1888	181	10%	2069	2572	Reduce by scope and value engineering
1.5.1 Med. Electr. Oxid.	5397	1310	24%	6707	7510	Reduce scope; low-cost acquisition strategy; add decon mode
1.5.2 Molten Salt. Oxid	7729	1623	21%	9352	10003	Reduce scope. Modify baseline design
1.5.3 Wet Oxidation	98	0	0%	98	138	Closed activity under estimate
1.5.4 UV Photolysis	24	0	0%	24	40	Closed activity under estimate
1.5.5 Expt. Off Gas	416	57	14%	473	819	Reduce scope significantly
1.6.1 Transp. & Storage	666	99	15%	765	852	Reduce scope; some costs from WTR; add bagless transfer
1.6.2 Anal. Services	1616	291	18%	1907	1571	Scope increase by merge; reduce scope
1.6.3 Water Treat.	964	230	24%	1194	1882	Reduce scope; defer scope to HWM
1.6.4 Final Forms	2037	434	21%	2471	2288	Modify and reduce scope; increase MR
1.6.5 Supv. I&C	2608	685	26%	3293	3239	Scope increase by merge; reduce scope
Other: LDRD	342	0	0%	342	342	No longer charged LDRD
<b>OPEX SUBTOTAL</b>	13568	994		14562	13372	
<b>CENRTC SUBTOTAL</b>	36627	6353		42980	43966	
<b>PROJECT TOTAL</b>	50195	7347		57542	57338	

MWMF Project Baseline, Revision 1.2

## **Appendix I**

### **MWFM Project FY Profiles: Costs and Obligation Authority**

**MWMF Project Expenditures by Fiscal Year**

Note: Estimated costs in \$K; escalated, includes contingency.

Actual FY93*	Actual FY94	Estimate FY95	Estimate FY96	Estimate FY97	Estimate FY98	TOTAL
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**Budget Outlay (spending) Profile**

OPEX	483	4442	873	1052	2792	5584	15226
CENRTC		3427	9584	10117	14374	7210	44712
<b>FY Totals</b>	483	7869	10457	11169	17166	12794	59938
<b>Cumulative</b>	483	8352	18809	29978	47144	59938	

**Budget Authority (new DOE funding) Profile\*\***

OPEX	1180	4025	650	1053	2795	5590	15293
CENRTC	370	5705	7006	14300	10200	7064	44645
<b>FY Totals</b>	1550	9730	7656	15353	12995	12654	59938
<b>Cumulative</b>	1550	11280	18936	34289	47284	59938	

\* FY93 value reflects negotiated costs to be shown against MWMF Total Project Costs (TPC)

\*\* Includes obligations/liens and any funding carryover. Values from FY97 Validation Review.

**MWMF Project Baseline, Revision 1.2**