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## CY 1995 Radiation Dose Reconciliation Report and Resulting CY 1996 Dose Estimate for the 324 Nuclear Facility

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April 1996

Prepared for the U.S. Department of Energy  
under Contract DE-AC06-76RLO 1830

Pacific Northwest National Laboratory  
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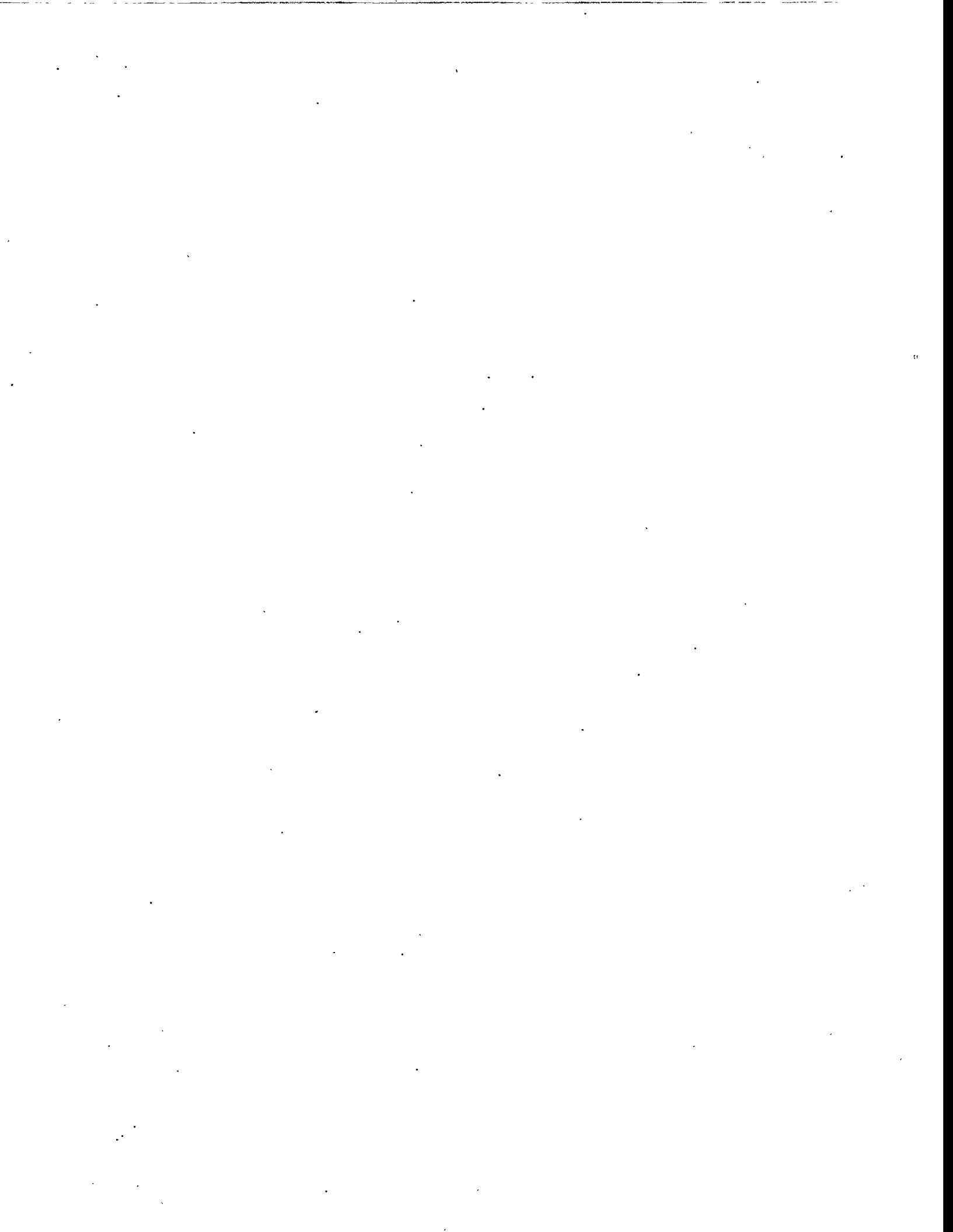
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## **Summary**

Dose estimates for 324 Facility radiological work planned through the year 2000 were prepared in CY 1995. Historical radiation dose records of all known radiation work for the various work groups were used as the basis for the estimates. In this report, the estimate for CY 1995 is reconciled (by month) with actual doses received. Results of the reconciliation were used to revise estimates of worker dose for CY 1996. The resulting dose estimate for the facility is also included in the report.

Support for two major programs (B-Cell Cleanout and Surveillance and Maintenance) accounts for most of the exposure received by workers in the facility. The majority of the exposure received by workers comes from work in the Radiochemical Engineering Complex airlock. In spite of unforeseen schedule and work scope changes during CY 1995, dose estimates were generally quite close to actual exposures received. A number of "as low as reasonably achievable" (ALARA) measures were taken throughout the year that enabled the facility workers to reduce cumulative dose received. Actual doses received were generally at or below the ALARA facility goal, which was to reduce worker radiation exposure to 80% of the CY estimated dose. Overall, exposure reduction due to ALARA measures was 20.6 Man-Rem. This was a 28% reduction from the CY 1995 estimate.

Data gathered during CY 1995 were used to generate baseline estimates for various tasks performed in the facility. These baseline estimates were used to compile the CY 1996 dose estimate of 45.4 Man-Rem. Although the new baseline estimates are not as conservative as those used to prepare the CY 1995 dose estimate report, the facility goal for CY 1996 is to reduce worker dose by 20%, to 36.3 Man-Rem.

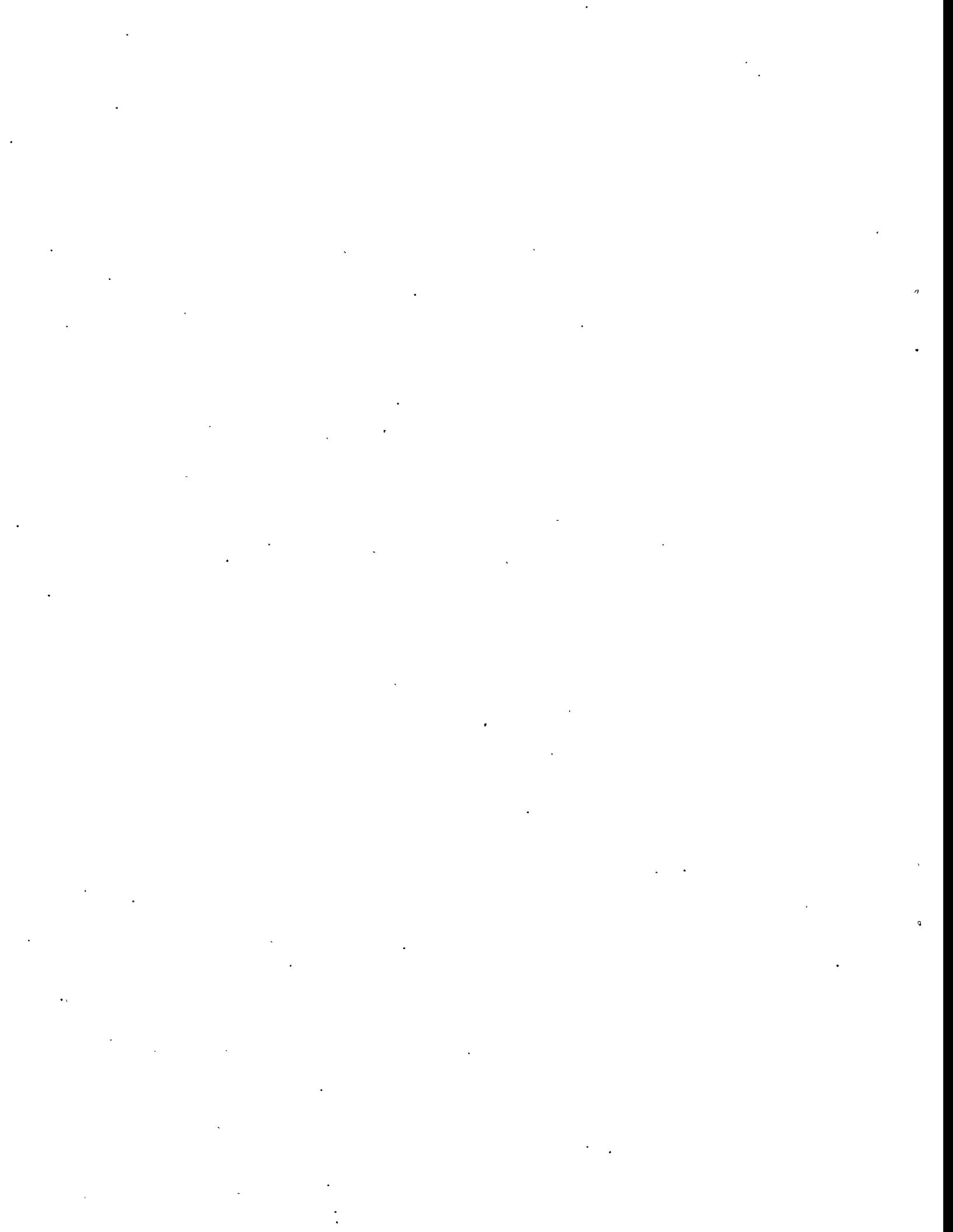


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## Purpose

In this report, calendar year (CY) 1995 dose estimates for 324 facility radiological work are reconciled against actual doses received for completion of activities. The reconciliation data are then used to revise estimates of worker dose for CY 1996. The completion date for one of the major facility programs (the B-Cell Cleanout project) has been accelerated, significantly affecting work activities scheduled for the out years of the project. Resulting schedule changes negate the forecast facility dose estimates (see PNL-10739, 324 *Building Life Cycle Dose Estimates for Planned Work*, S.D. Landsman). At the time of this report, the work plan and schedule for the project had not been finalized for the out years (1997, 1998). An addendum to this report, including new worker radiation exposure forecasts for the out years, will be made available when the new work scope for the life of the B-Cell Cleanout project is finalized.

## Discussion of CY 1995 Dose Estimate

Radiological exposure received by workers in the 324 Building is primarily the result of support for two major programs: B-Cell Cleanout and facility Surveillance and Maintenance. The majority of exposure (~90%) in the facility is received by personnel working in the Radiochemical Engineering Complex (REC) airlock.

The CY 1995 dose estimate was prepared based on existing schedules for work in the facility. To facilitate tracking actual worker exposures, the estimate was prepared using Prima Vera, software designed to prepare and track program budgets (for further information, see PNL-10739, 324 *Building Life Cycle Dose Estimates for Planned Work*, S.D. Landsman). The dose estimate details resources needed to complete separate work activities and sorts them by date. The prepared estimate included all known radiation work for the various work groups in the facility: Hot Cell Operations, Radiological Control, Pacific Northwest National Laboratory (PNNL)<sup>(a)</sup> Crafts, and Kaiser Crafts. Historical information was used to determine the personnel resources required for each activity listed in the estimate and the amount of time spent in radiation dose fields by those personnel. To facilitate work planning, the Prima Vera software was also used to sort the dose estimate by worker craft and activity. This provided a ready guide for management to consult when determining the need for worker-dose-limit upgrades, or to determine staffing requirements for a particular work activity.

## Reconciliation of CY 1995 Dose Estimate

Tasks scheduled for a given month were not necessarily completed on time, due to equipment failures, schedule changes, delays, changes in work priority, and the addition of new tasks. For example, B-Cell 6-ton and D-Cell 5-ton crane breakdowns postponed scheduled activities because the cranes were not available to perform those tasks. The high priority given to the repair work also did not allow completion of other scheduled work.

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Additionally, work scope changes, such as the unexpected resumption of the cesium legacy program work in the Shielded Materials Facility (SMF), resulted in the addition of activities to support the program. These activities were not included in the original estimate. This change in scope also resulted in several activities scheduled for the SMF complex being postponed to CY 1996.

Analysis of actual exposure received vs. estimated exposure for any given task revealed that in some cases (manipulator changes, C-Cell decontamination) dose estimates were much higher than actuals. Both the frequency of performing a task and the dose estimate for specific tasks were analyzed, based on actual work completed in CY 1995. As a result of this study, dose estimates and task frequencies were adjusted in the CY 1996 dose estimate.

Despite these challenges, however, dose estimates for the CY were generally quite close to actual exposures received by workers in the facility. The majority of tasks involving radiation exposure occur in the REC airlock. Analysis of actual dose taken in the airlock indicates that the amount of time spent in the airlock is more important than the nature of the task being performed. This is true because penetrating dose received in the airlock is consistent at 100 mR to 150 mR per hour of work. Due to the physical nature of work performed in the airlock and the necessity for personal protective equipment (PPE) that creates heat stress and efficiency problems, stay times in the airlock are governed by physical limitations. This creates conditions where airlock entries are of consistent duration.

Since only one task can be performed in the airlock at a time, dose received while performing unexpected work (not included in the CY 1995 dose estimate) was balanced by the dose savings from the task included in the dose estimate that was not performed. Although this has been presumed in the past, substantiating documentation was incomplete. In CY 1995, complete dose documentation of all entries to the airlock was gathered and maintained on a consistent basis for the first time.

In general, actual doses received by personnel for specific tasks or evolutions were at or below "as low as reasonably achievable" (ALARA) goal estimates, which were established as 80% of the estimated dose for the activity.<sup>(a)</sup> Later in this report, ALARA measures initiated in the facility that contributed to the dose savings are discussed.

### Monthly Reconciliation

Table 1 summarizes doses received, by month, for all radiation area work during CY 1995. The ratio of actual dose to estimated dose is a measure of the overall accuracy of the dose estimates. To provide more accurate comparison of actual dose to estimated dose, jobs that were completed but not included in the original CY 1995 dose estimate report were assigned dose estimates "after the fact." These estimates were prepared in the same manner as estimates for jobs that were included in the CY 1995 dose-estimate report. Estimated dose is presented in three different formats: 1) CY estimated dose for those jobs that were included in the CY 1995 dose-estimate report, 2) actual estimated dose, representing the estimate for work completed in the month that was included in the CY dose estimate, and 3) adjusted estimated dose, representing the estimate for all work performed during the month, including unexpected tasks. Actual dose shown is for all jobs completed in the month.

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(a) This goal for CY 1995 was set in PNL-10739, 324 *Building Life Cycle Dose Estimates for Planned Work*. It was set to be a challenging ALARA goal for reduction of worker radiation exposures.

**Table 1. Comparison by Month of Estimated Dose and Actual Dose Received  
(Dose information is in mRem)**

<u>Month</u>	<u>CY Estimated Dose<sup>(a)</sup></u>	<u>Actual Estimated Dose<sup>(b)</sup></u>	<u>Adjusted Estimated Dose<sup>(c)</sup></u>	<u>Actual Dose</u>	<u>Actual/Estimate<sup>(d)</sup></u>
January	3731	2348	2736	1793	0.66
February	7137	5852	7142	3909	0.55
March	6922	2416	2796	1946	0.70
April	12801	2322	2322	2025	0.87
May	7584	871	1946	1633	0.84
June	18904	8397	8397	6435	0.77
July	5881	6271	6271	6966	1.11
August	6346	7058	7373	7851	1.06
September	5132	5168	5168	3551	0.69
October	1815	4908	4908	6350	1.29
November	2161	799	1019	1353	1.33
December	1230	3488	3608	3803	1.05
<b>Total</b>	<b>79644</b>	<b>49898</b>	<b>53686</b>	<b>47615</b>	<b>0.89</b>

- (a) Estimated dose for the month from the CY 1995 dose estimate
- (b) Cumulative estimates for jobs that actually occurred during the month and that had been included in the CY 1995 dose estimate
- (c) Cumulative estimates for all jobs that actually occurred during the month, whether they were included in the original CY 1995 dose estimate or not. This column is necessary to compare actual dose received to the estimated dose.
- (d) The estimated dose used in this calculation is the adjusted estimated dose.

### Documented Reductions in Dose Due to ALARA Measures Taken

Some of the tasks performed in CY 1995 had dose reductions due to ALARA measures taken before or during the task evolution. These ALARA measures fell into several categories: 1) elimination or postponement of a task, 2) procedural changes that reduced exposure, and 3) reduction of dose rates through decontamination or other means.

#### Elimination or Postponement of Tasks

Several tasks originally scheduled for completion in CY 1995 were eliminated from the schedule or postponed for ALARA reasons. The major task eliminated from the schedule was installation of cell cleaning systems by Kaiser Engineers, Hanford (KEH). In this task, several shield plugs containing service connections between the hot cells and the galleries to support the use of the Ultra High Pressure Spray Decontamination system were removed and replaced. It was determined that this work could be eliminated if the system were installed in the airlock because all of the hot cells could be accessed from the airlock, eliminating the need to provide individual services to the cells. Elimination of this task from the schedule

resulted in a savings of 3.1 man-Rem. This savings largely contributes to the difference between CY estimated and actual doses for January and February.

Installation of the 3.5-ton crane in B-Cell was postponed for ALARA reasons. It was determined that the crane was not vital to operations in CY 1995, and installation could be postponed until the crane was needed to remove the 1A and 1B racks. Installation at a later time allows completion of other tasks, such as low-level-waste characterization and shipping, resulting in increased dose rates in the airlock. Comprehensive decontamination after completion of this work would result in lower dose rates when installing the 3.5-ton crane. When this work was postponed, the 2.4 man-Rem was eliminated from the estimate. This savings largely contributes to the difference between CY estimated and actual doses for May.

#### Modifications to Procedures

An example of dose savings attributed to modification of procedures is low-level-waste hauls using the SEG 3-82B cask. The cask is loaded by moving it into the airlock, remotely loading the cask with the waste package, and then removing the cask from the airlock for shipping. The procedure requires two airlock entries, one to insert the cask into the airlock, and one to retrieve the cask.

Changes to the cask loading procedure and increasing worker familiarity with the procedure due to a "campaign"<sup>(a)</sup> approach resulted in lower personnel dose rates. Additionally, movement of source term materials in the hot cells and increased decontamination activities in the airlock led to generally lower airlock dose rates. The result of these actions was lower cumulative doses for individual waste-haul evolutions. Historic documentation of doses associated with waste hauls averaged 430 mRem per evolution. The waste campaign accomplished January through April 1995 (22 waste hauls) averaged 250 mRem per load out, or 58% of the estimated dose (Table 2). This accounts for 2.3 man-Rem savings and largely contributes to the difference between (CY) estimated and actual doses for February and March.

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(a) Concentrating a number of waste hauls into a contiguous series rather than doing a waste haul when a load is ready for burial.

**Table 2.** Dose from Low-Level Waste Hauls

## **Reduction of Dose Through Decontamination or Other Means**

### *Manipulator Changes and Repair Activities*

Implementing ALARA measures, such as rearranging source-term material inside B-Cell and reducing PPE requirements (with resulting increases in worker efficiency), throughout the year resulted in lower personnel dose for manipulator changes. Rearranging source-term material within the cell lowered dose rates at penetrations and access ports around the cell. The planned movement of source term within the cell, most notably repositioning the spent-fuel assemblies<sup>(a)</sup> from directly in front of the cell doors (located at the east end of the cell) to the west wall, was also a contributing factor in lowering general area dose rates within the airlock. Additionally, modification of requirements for wearing respirators during manipulator changes significantly decreased the amount of time required to remove and install a manipulator. The time savings directly equates to lower worker dose (time, distance, and shielding are the major ALARA considerations). Table 3 is a record of manipulator changes that occurred in CY 1995, showing estimated and actual dose per evolution. The ALARA measures taken resulted in actual dose of 0.6 man Rem below the CY 1995 estimate.

Reductions in actual dose seen for manipulator repair work, although not due strictly to ALARA measures taken, resulted in a savings of 3.3 man-Rem as compared to the estimated dose (see Table 4). Although the estimated dose for this task was judged to be over-conservative, some dose reduction was due to more rigorous decontamination of manipulators before repairing and modifying respiratory protection requirements for some phases of the decontamination and repair work.

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(a) This was discussed in PNL-10739, 324 Building Life Cycle Dose Estimates for Planned Work, September 1995.

**Table 3. Dose from Manipulator Changes**

Act/Actual ID	Job Number	Description	Date	Estimated CY	Actual CY
400599	324-95-001	Manipulator Pull	01/04/95	34	0.9
400585	324-95-005	Manipulator Pull North & South MSM B-Cell	01/09/95	50	1.3
400586	324-95-006	Manipulator Pull LH North MSM Installation	01/10/95	50	1.3
400585B	324-95-010	Manipulator Pull, C-Cell	01/17/94	34	0.9
400587	324-95-040,041	Manipulator Pull B-Cell South	03/01/95	50	0.7
400585C	324-95-044	Manipulator Pull RH	03/07/95	34	0.5
400585D	324-95-058	Manipulator Pull SMF, Station #3	03/29/95	34	0.5
400586E	324-95-064	Manipulator Pull South Window	04/04/95	34	0.3
400589	324-95-072	Manipulator Pull B-Gallery South	04/24/95	50	0.4
400586G	324-95-084	Manipulator Pull, SMF Gallery	05/10/95	34	0.4
400570	324-95-086	Manipulator Pull B-Cell	05/11/95	50	0.7
40056H	324-95-095	Manipulator Pull RH	05/25/95	34	0.4
40056I	324-95-102	Manipulator Pull LHS	06/05/95	34	0.2
40056J	324-95-124	Manipulator Pull SMF	07/13/95	34	0.6
	324-95-131	Manipulator Pull	07/20/95	34	0.6
	324-95-137	Manipulator Pull SMF	08/01/95	50	0.8
	324-95-141	Manipulator Pull Air Lock	08/08/95	50	0.8
400571	324-95-152	Manipulator Pull B-Cell	08/18/95	50	0.8
400753	324-95-161	Manipulator Pull B-Cell (RH)	08/28/95	50	0.8
	324-95-175	Manipulator Pull Air Lock	09/08/95	30	0.6
400572	324-95-176	Manipulator Pull B-Cell LHS & LHW	09/09/95	50	1.0
	324-95-177	Manipulator Pull South Cell	09/11/95	30	0.6
400575	324-95-188	Manipulator Pull South B-Cell	10/04/95	30	1.7
400574	324-95-190	Manipulator Pull LHS B-Cell	10/04/95	30	1.7
400574	324-95-191	Manipulator Pull LHS B-Cell	10/05/95	40	2
400575	324-95-220	Manipulator Pull Dual B-Cell Replacement	11/08/95	40	1.9
400576	324-95-221	Manipulator Pull L.H.N. B-Gallery & restitute R.H.N. MSM	11/09/95	40	1.9
	324-95-222	Manipulator Pull RHN MSM	11/10/95	40	1.9
400577	324-95-222	Manipulator Pull RHN MSM	11/14/95	40	1.9
400578	324-95-227	Manipulator Pull RHW MSM	12/12/95	40	3.3
400578	324-95-244	Manipulator Pull RHS - B-Cell gallery	12/15/95	40	3.3
BC400579	324-95-248	Manipulator Pull (2)	12/22/95	40	3.3
400580	324-95-251	Manipulator Pull B-Gallery, South Window	12/22/95	40	3.3
		Estimated Dose for Activities Completed		1280	
		Act/Actual Est			
		Actual Dose Received for Activities Completed		406	
		Numbers in italics were not included in the original CY estimate. They are included here for the sake of comparison to the actual dose.			

**Table 4.** Dose from Manipulator Repair

### *C-Cell Decontamination*

The C-Cell decontamination and crane installation evolutions were well below estimates. Initial estimates for this work were based on historical dose levels seen during the last cell cleanup evolution in 1986. The captive in-cell crane had never been replaced, and some uncertainty existed about the methods required to remove the crane from the rails. This led to conservative time estimates from KEH management for removing the old crane; this factor increased the dose estimates for the work.

To ensure that workers were prepared for any contingency encountered during the crane replacement, extensive mock-up work was done by KEH personnel involved in the job. The mock-up training proved to be very helpful for the actual crane replacement work and reduced the actual entry time in the cell to 6 hours rather than the 24 hours in the estimate.

The use of a new decontamination tool, the Ultra High Pressure (UHP) decontamination system, resulted in dose rates in the cell being less than half of estimated levels. The UHP system delivers a jet of water at a pressure of 50,000 PSI to rotating nozzles. Although the effective decontamination width of the spray is only 2 inches, the spray can be moved at a rapid (~2 ft/sec) rate, allowing large areas to be decontaminated quickly. The spray apparatus, which is easily handled, allowed the old crane as well as the floor and walls of the cell to be decontaminated to a height of approximately 5 feet.

Overall reductions in actual dose to personnel on this job versus the best estimate was on the order of 12.6 Man-Rem, a reduction of 86% (Table 5). This accounts for much of the difference between (CY) estimated and actual dose for the month of June.

### **Total Documented Dose Savings for CY 1995**

As discussed above, dose savings from ALARA actions in the facility were realized through elimination/postponement of tasks (5.5 Man-Rem), procedural changes (2.3 Man-Rem), and reductions in dose rates due to decontamination or other means (16.5 Man-Rem). Total dose savings due to ALARA actions was 24.3 Man-Rem for CY 1995.

**Table 5.** Dose from C-Cell Activities

## **Exposure Goal vs. Exposure Estimates**

The Hot Cell Operations Group exposure goal for CY 1995 was to reduce personnel exposure by 20% of the CY 1995 estimated dose (73.7 Man-Rem), or 14.7 Man-Rem. As explained above, exposure reduction due to ALARA measures was 24.3 Man-Rem for CY 1995. This represents a reduction in personnel exposure from CY 1995 estimates of 33%.

A portion of the dose savings, however, was due to postponement or cancellation of scheduled work (3.1 Man-Rem for installation of cell cleaning systems canceled and 2.4 Man-Rem for postponing installation of the 3.5-ton crane). By subtracting the 3.5 Man-Rem reflected by these actions from both the CY estimate (73.7 Man-Rem) and the ALARA measures savings (24.3 Man-Rem), then recalculating the percentage of savings, we arrive at a reduction in personnel exposure from CY 1995 estimates of 28%. This is a more accurate portrayal of ALARA savings, since dose associated with the 3.5-ton crane installation will be taken at a later date, and it could be argued that cancellation of dose is not a true ALARA measure.

## **Basis of Estimates for CY 1996 Facility Dose Estimate**

Actual dose records for CY 1995 are now historical documents for generating future dose estimates. The basis of estimates for different tasks was generated from this information and is presented in Table 6. These data were used to compile new dose estimates for work scheduled for CY 1996 (see Appendix B - estimate for CY 1996). As a result of using these revised bases of estimates, CY 1996 dose estimates should not be as over-conservative as the CY 1995 estimate.

The CY 1996 exposure estimate, based on work schedules in place in December 1995, projects facility exposure estimates for radiation workers at 45.4 Man-Rem. As discussed above, the estimate is based on more recent dose-rate information and reflects procedural changes and dose-rate reductions in the major work area (the REC Airlock). From an Operations standpoint, however, it is felt that a challenging ALARA goal for the calendar year would be to reduce a worker dose by 20%. The exposure goal for CY 1996, based on a 20% reduction from the estimated dose of 45.4 Man-Rem, is therefore 36.3 Man-Rem.

**Table 6a. CY 1996 Baseline Job Estimates**

BASIS OF ESTIMATES FOR RADIOLOGICAL JOBS			
JOB A AIRLOCK ENTRY		JOB B AIRLOCK ENTRY	
MILLWRIGHT	250 mR	ENTRY PERSON	100 mR
UNDRESSER	50 mR	UNDRESSER	30 mR
RPT	100 mR	RPT	75 mR
ASSIST	20 mR	ASSIST	20 mR
TOTAL	420 mR	TOTAL	230 mR
JOB C AIRLOCK ENTRY		JOB D 6-TON CRANE REPAIR/PM	
ENTRY PERSON	150 mR	MILLWRIGHT	1200 mR
UNDRESSER	30 mR	ELECTRICIAN	600 mR
RPT	75 mR	UNDRESSER	250 mR
ASSIST	25 mR	RPT	300 mR
TOTAL	280 mR	ASSIST	30 mR
		TOTAL	2380 mR
JOB E AIRLOCK ENTRY		JOB F AIRLOCK ENTRY	
LABORERS	250 mR	ELECTRICIAN	300 mR
WELDERS	130 mR	LABORER	300 mR
PIPEFITTERS	130 mR	UNDRESSER	50 mR
UNDRESSER	50 mR	ASSIST	25 mR
ASSIST	25 mR		
TOTAL	585 mR	TOTAL	675 mR
JOB G 5-TON CRANE REPAIR/PM		JOB H VAULT TANK SAMPLES	
IRONWORKER	600 mR	TECHNICIAN	100 mR
LABORER	300 mR	RCT	30 mR
UNDRESSER	100 mR		
ELECTRICIAN	300 mR	TOTAL	130 mR
ASSIST	30 mR		
TOTAL	1330 mR		
JOB J SAMPLE TRANSFER		JOB K AIRLOCK ENTRY	
TECHNICIAN	10 mR	MILLWRIGHT	400 mR
		RCT	225 mR
TOTAL	10 mR	UNDRESSER	75 mR
		ASSIST	30 mR
		TOTAL	730 mR

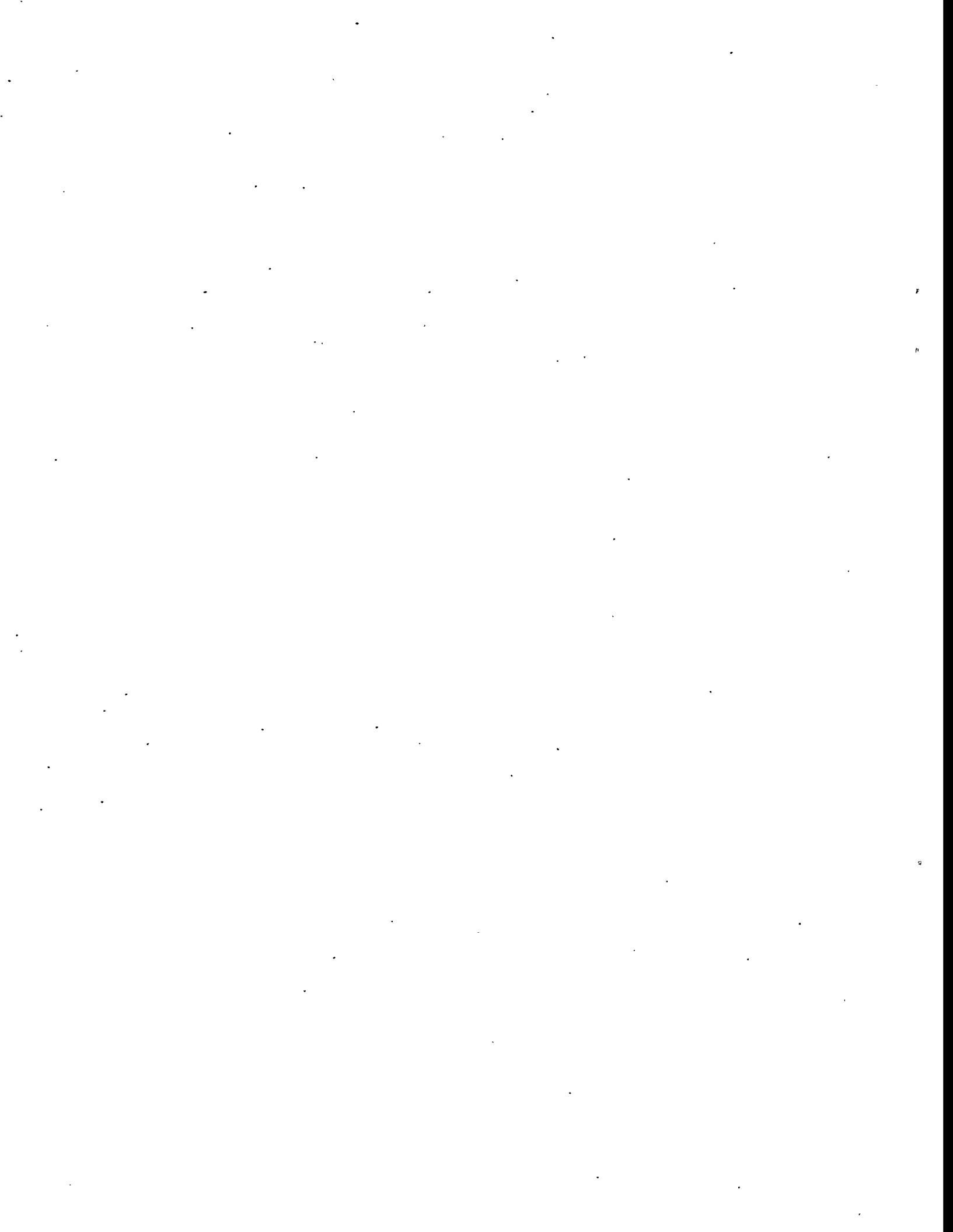
**Table 6b. CY 1996 Baseline Job Estimates**

**Table 6c. CY 1996 Baseline Job Estimates**

<b>JOB V S-CELL PaR &amp; CRANE PM</b>			<b>JOB W D-CELL CRANE PM</b>		
ASSIST	10 mR		ASSIST	225 mR	
ELECTRICIAN	400 mR		ELECTRICIAN	400 mR	
MILLWRIGHT	1200 mR		MILLWRIGHT	1200 mR	
RCT	50 mR		RCT	100 mR	
TECHNICIAN	800 mR		TECHNICIAN	800 mR	
UNDRESSER	60 mR		UNDRESSER	240 mR	
<b>TOTAL</b>	<b>2520 mR</b>		<b>TOTAL</b>	<b>2965 mR</b>	
<b>JOB X SMF WASTE DISPOSAL</b>			<b>JOB Y SMF AIRLOCK CRANE PM</b>		
RCT	10 mR		ELECTRICIAN	40 mR	
TECH	20 mR		MILLWRIGHT	80 mR	
			RCT	5 mR	
<b>TOTAL</b>	<b>30 mR</b>		TECHNICIAN	60 mR	
			<b>TOTAL</b>	<b>185 mR</b>	
<b>JOB Z HEPA A-FRAME CHANGE</b>			<b>JOB AA MISC. CASK LOAD/UNLOAD</b>		
AIR BAL.	200 mR				
ASSIST	20 mR		RCT	5 mR	
MILLWRIGHT	400 mR		TECHNICIAN	25 mR	
RCT	100 mR				
TECHNICIAN	300 mR		<b>TOTAL</b>	<b>30 mR</b>	
<b>TOTAL</b>	<b>1020 mR</b>				

## **Appendix A**

### **Comparison by Month of Estimates vs. Actuals with Jobs Identified**



## Comparison by Month of Estimates vs. Actuals with Jobs Identified

Each of the following tables contains data for 1 month. If the activity had been included in the dose estimate for the year, the activity identification (ID) number from the data base is included. A blank activity ID number indicates that the activity was not included in the dose estimate for the year. The actual work done each month did not necessarily parallel the schedule from which the estimate was derived. Many tasks were postponed to a later date, and changes in work scope created additional tasks not included in the estimate.

The following pages provide actual dose for job activities that resulted in worker dose. The data were collated from ALARA/pre-job packages prepared for work tasks in the facility. Jobs that were part of the CY 1995 dose estimate were included, as well as jobs for which no estimate was prepared. The actual dose is the secondary dosimetry readings recorded in the packages at the completion of the job. These readings, taken on a cumulative basis, are within 10% of the record dose for any individual.

In the detailed breakdown, the *actual %* column represents a weighted method to compare the significance of the work activity. It represents the proportion of the doses for the activity and the monthly dose from the CY estimate (see Table 1). This gives a relative ranking of the significance of the dose received for that activity.

To weight an activity, the dose associated with the activity is divided by the monthly estimate (see the following tables, one for each month). This *% of total* shows the significance of the job in relation to the estimated dose for the month.

The *ACT/EST* column indicates the relative accuracy of the dose estimate for that specific activity by comparing the actual dose received for the job against the estimate for the job. The estimate is increasingly accurate as the ratio moves closer to one.

January 95

Activity ID	Job Number	Description	Date	Month	Estimated Dose	% of total	Actual Dose	% of total
	RWP-009	Manipulator Repair	February	February	408	5.7	55	0.8
	RWP-017	Waste Compactor/Decon	February	February	20	0.3	0	0.0
40047H	324-95-020	SEG Cask Load out	02/01/95	February	430	6.0	155	2.2
	324-95-022	NLI Cask Loading	02/04/95	February	430	6.0	391	5.5
	324-95-023	NLI Cask Load out	02/05/95	February	430	6.0	279	3.9
	324-95-025	NLI Cask Load out	02/06/95	February	430	6.0	235	3.3
40047I	324-95-026	SEG Cask Load out GC-57	02/08/95	February	430	6.0	365	5.1
40047J	324-95-027	SEG Cask Load out GC-61	02/10/95	February	430	6.0	215	3.0
40047M	324-95-029, 30	Air Lock Clean Up	02/12/95	February	535	7.5	695	9.7
40047K	324-95-031	SEG Load & Remove SEG Cask with GC-62	02/19/95	February	430	6.0	250	3.5
132A95A	324-95-032	Air Lock, REC Camera Repair	02/15/95	February	64	0.9	60	0.8
40047L	324-95-034	SEG Load out GC-68	02/23/95	February	430	6.0	289	4.0
40047N	324-95-036	SEG Load out GC-67	02/23/95	February	430	6.0	203	2.8
	324-95-037	Air Lock Place GC-80 In the Air Lock	02/24/95	February	0	0.0	0	0.0
40047O	324-95-038	SEG Load out GC-78	03/05/95	February	430	6.0	170	2.4
400025	324-95-039	Air Lock/Cell Door PM's	02/28/95	February	1815	25.4	532	7.5
		CY Estimate-Month of February			7137			
		Estimated Dose for Activities Completed			7142			
		Act/Actual Est					0.55	
		Actual Dose Received for Activities Completed					3894	

A3

MARCH 95

## ESTIMATES vs ACTUALS

Activity ID	Job Number	Job Description	Date	Month	Est. Dose	% of total	Actual Dose	actual %	ACT/EST
RWP-009		Manipulator Repair	March	March	408	5.9	45	0.7	'0.11
RWP-017		Waste Compactor/Decon	March	March	20	0.3	5	0.1	0.25
400567	324-95-040,041	Manipulator Pull B-Cell South	03/01/95	March	50	0.7	5	0.1	0.10
40047P	324-95-043	SEG Load out GC-78	03/07/95	March	430	6.2	172	2.5	0.40
400565C	324-95-044	Manipulator Pull RH	03/07/95	March	34	0.5	40	0.6	1.18
40047Q	324-95-045	SEG Load out GC-79	03/14/95	March	430	6.2	131	1.9	0.30
40048R	324-95-050	SEG Load out GC-77	03/19/95	March	430	6.2	365	5.3	0.85
40047S	324-95-051	SEG Load out GC-72	03/27/95	March	430	6.2	390	5.6	0.91
	324-95-056	Open Air Lock Door	03/23/95	March	0	0.0	0	0.0	
28190	324-95-057	Room 11 Filter Change	03/24/95	March	100	1.4	89	1.3	0.89
400565D	324-95-058	Manipulator Pull SMF, Station #3	03/29/95	March	34	0.5	5	0.1	0.15
	324-95-059	NLI	03/29/95	March	430	6.2	537	7.8	1.25
		CY Estimate—Month of March			6922				
		Estimated Dose for Activities Completed			2796				
		Act/Actual Est							0.64
		Actual Dose Received for Activities Completed							1784

A.4

April 95

Activity ID	Job Number	Job Description	Date	Month	CY Dose	% of Total	Actual Dose	Actual %
	RWP-019	Manipulator Repair	April	April	408	3.2	70	0.5
	RWP-017	Waste Compactor/Decon	April	April	20	0.2	0	0.0
40047U	324-95-060	SEG/ GC-83	04/04/95	April	430	3.4	196	1.5
40047X	324-95-061	Air Lock Clean up	04/02/95	April	321	2.5	410	3.2
700110A	324-95-063	SEG Load out GC-82	04/06/95	April	194	1.5	187	1.5
40056E	324-95-064	Manipulator Pull South Window	04/04/95	April	34	0.3	10	0.1
700110B	324-95-065	SEG Load - CG81	04/09/95	April	194	1.5	167	1.3
901385	324-95-066	SMF PM's	04/10/95	April	25	0.2	0	0.0
700110C	324-95-067	SEG Load out GC-86	04/17/95	April	194	1.5	247	1.9
700110D	324-95-069	SEG Load out GC-87	04/23/95	April	194	1.5	216	1.7
40056F	324-95-070	Manipulator Pull C-Gallery	04/19/95	April	34	0.3	20	0.2
400569	324-95-072	Manipulator Pull B-Gallery South	04/24/95	April	50	0.4	10	0.1
500315	324-95-073	A-Frame DOS	04/24/95	April	30	0.2	45	0.4
700110E	324-95-074	SEG Load out GC-74	04/26/95	April	194	1.5	207	1.6
		CY Estimate--Month of April			12801			
		Estimated Dose for Activities Completed			2322			
A.5		Act/Actual Est					0.77	
		Actual Dose Received for Activities Completed			1785			

May 95

JUNE 95

## ESTIMATES vs ACTUALS

Activity ID	Job Number	Job Description	Date	Month	Est Dose	% of total	Actual Dose	actual %	ACT/EST
	RWP-009	Manipulator Repair	June	June	408	2.2	238	1.2	0.58
	RWP-017	Waste Compactor/Decon	June	June	20	0.1	0	0.0	0.00
305	324-95-099	Air Lock Entry - Install N. Dust Stop	06/02/95	June	560	3.0	50	0.3	0.09
400561	324-95-102	Manipulator Pull LHS	06/05/95	June	34	0.2	15	0.1	0.44
40255A	324-95-104	Air Lock Clean Up and Waste Removal	06/12/95	June	535	2.8	764	4.0	1.43
400415B	324-95-112, 108,110	5-ton Air Lock Entry (REC) 5-Tone Crane Repair	06/23/95	June	3975	21.0	1262	6.7	0.32
500086C	324-95-114,115	6-Ton Air Lock Entry - Install Tugger for 6-Ton Rec	06/26/95	June	1050	5.6	883	4.7	0.84
50086A, 402556	324-95-116 40255H	6-Ton Crane Repair/PM	06/29/95	June	1815	9.6	3059	16.2	1.89
		CY Estimate-Month of June			18904				
		Estimated Dose for Activities Completed			8397				
		Act/Actual Est							0.75
		Actual Dose Received for Activities Completed					6269		

JULY 95

## ESTIMATES VS ACTUALS

<i>Activity ID</i>	<i>Job Number</i>	<i>Job Description</i>	<i>Date</i>	<i>Month</i>	<i>Est. Dose</i>	<i>% of total</i>	<i>Actual Dose</i>	<i>actual %</i>	<i>ACT/EST</i>
RWP-009		Manipulator Repair	July	July	408	6.9	105	1.8	0.26
RWP-017		Waste Compactor/Decon	July	July	20	0.3	35	0.6	1.75
40255C	324-95-119	Air Lock Clean Up/Waste Load out & H/L Decon.	07/08/95	July	535	9.1	255	4.3	0.48
40255D	324-95-121	Air Lock Clean Up Entry (REC) Decon	07/11/95	July	535	9.1	304	5.2	0.57
50086B	324-95-122	6-Ton Crane decon/repair	07/13/95	July	750	12.8	499	8.5	0.67
40058J	324-95-124	Manipulator SMF MSM Pulls	07/13/95	July	34	0.6	0	0.0	0.00
40255E	324-95-126	6-Ton Crane LLW Load out	07/14/95	July	535	9.1	720	12.2	1.35
40255K	324-95-127	Air Lock Entry Repair Blue Heron Crane	07/17/95	July	535	9.1	355	6.0	0.68
	324-95-131	Manipulator Pull	07/20/95	July	34	0.6	0	0.0	0.00
40255F	324-95-132	Air Lock Clean Up Entry	07/24/95	July	535	9.1	1245	21.2	2.33
	324-95-133	6-Ton Crane Trolley Motor Replacement	07/26/95	July	1815	30.9	1535	26.1	0.85
40255J	324-95-136	Air Lock Fuel Storage Rack Install	07/31/95	July	535	9.1	341	5.8	0.64
		CY Estimate--Month of July			5881				
		Estimated Dose for Activities Completed			6271				
		Act/Actual Est							0.88
		Actual Dose Received for Activities Completed					594		

AUGUST 95

## ESTIMATES vs ACTUALS

Activity ID	Job Number	Job Description	Date	Month	Est. Dose	% of total	Actual Dose	Actual %	Act/Est
	RWP-009	Manipulator Repair	August	August	408	6.4	234	3.7	0.57
	RWP-017	Waste Compactor/Decon	August	August	20	0.3	32	0.5	1.60
	324-95-137	Manipulator Pull SMF	08/01/95	August	50	0.8	0	0.0	0.00
	324-95-138	Room 11 P.M.S.	08/03/95	August	100	1.6	0	0.0	0.00
	324-95-141	Manipulator Pull Air Lock	08/08/95	August	50	0.8	12	0.2	0.24
	700110J	SEG Load Out	08/14/95	August	430	6.8	221	3.5	0.51
	700110L	Air Lock Clean Up LLW Load Out	08/12/95	August	215	3.4	559	8.8	2.60
	502	C-Cell Survey-Decon-Remove Debris	08/17/95	August	975	15.4	638	10.1	0.65
	400571	Manipulator Pull B-Cell	08/18/95	August	50	0.8	0	0.0	0.00
	510	324-95-153, 125, C-Cell Crane Replacement	08/19/95	August	3300	52.0	3253	51.3	0.99
	500	324-95-155 C-Cell REC Air Lock Waste Haul	08/22/95	August	975	15.4	967	15.2	0.99
	400753	324-95-161 Manipulator Pull B-Cell (RH)	08/28/95	August	50	0.8	8	0.1	0.16
	500086	324-95-163 6-Ton Crane Survey	08/31/95	August	750	11.8	889	14.0	1.19
		CY Estimate-Month of August			6348				
		Estimated Dose for Activities Completed			7373				
		Act/Actual Est							0.92
		Actual Dose Received for Activities Completed					6813		

**SEPTEMBER 95**

**ESTIMATES vs ACTUALS**

<b>Activity ID</b>	<b>Job Number</b>	<b>Job Description</b>	<b>Date</b>	<b>Month</b>	<b>Est. Dose</b>	<b>% of total</b>	<b>Actual Dose</b>	<b>actual %</b>	<b>Act/Est</b>
	RWP-009	Manipulator Repair	September	September	408	8.0	470	9.2	1.15
	RWP-017	Waste Compactor/Decon	September	September	20	0.4	11	0.2	0.55
502	324-95-164	C-Cell Window Repair	09/02/95	September	975	19.0	528	10.3	0.54
500086	324-95-168	6-Ton Crane Electrical Repair	09/05/95	September	750	14.6	596	11.6	0.79
315	324-95-168	Air Lock Entry Change Dust Stop	09/06/95	September	560	10.9	176	3.4	0.31
	324-95-171	Air Lock Clean Up Survey	09/07/95	September	530	10.3	704	13.7	1.33
901380	324-95-174	Air Lock Shielded Door PMs - REC	09/11/95	September	1815	35.4	703	13.7	0.39
	324-95-175	Manipulator Pull Air Lock	09/08/95	September	30	0.6	0	0.0	0.00
400572	324-95-176	Manipulator Pull B-Cell LHS & LHW	09/09/95	September	50	1.0	30	0.6	0.60
	324-95-177	Manipulator Pull South Cell	09/11/95	September	30	0.6	1	0.0	0.03
		CY Estimate—Month of September			5132				
		Estimated Dose for Activities Completed			5168				
		Act/Actual Est							0.62
		Actual Dose Received for Activities Completed					3219		

OCTOBER 95

## ESTIMATES vs ACTUALS

## NOVEMBER 95

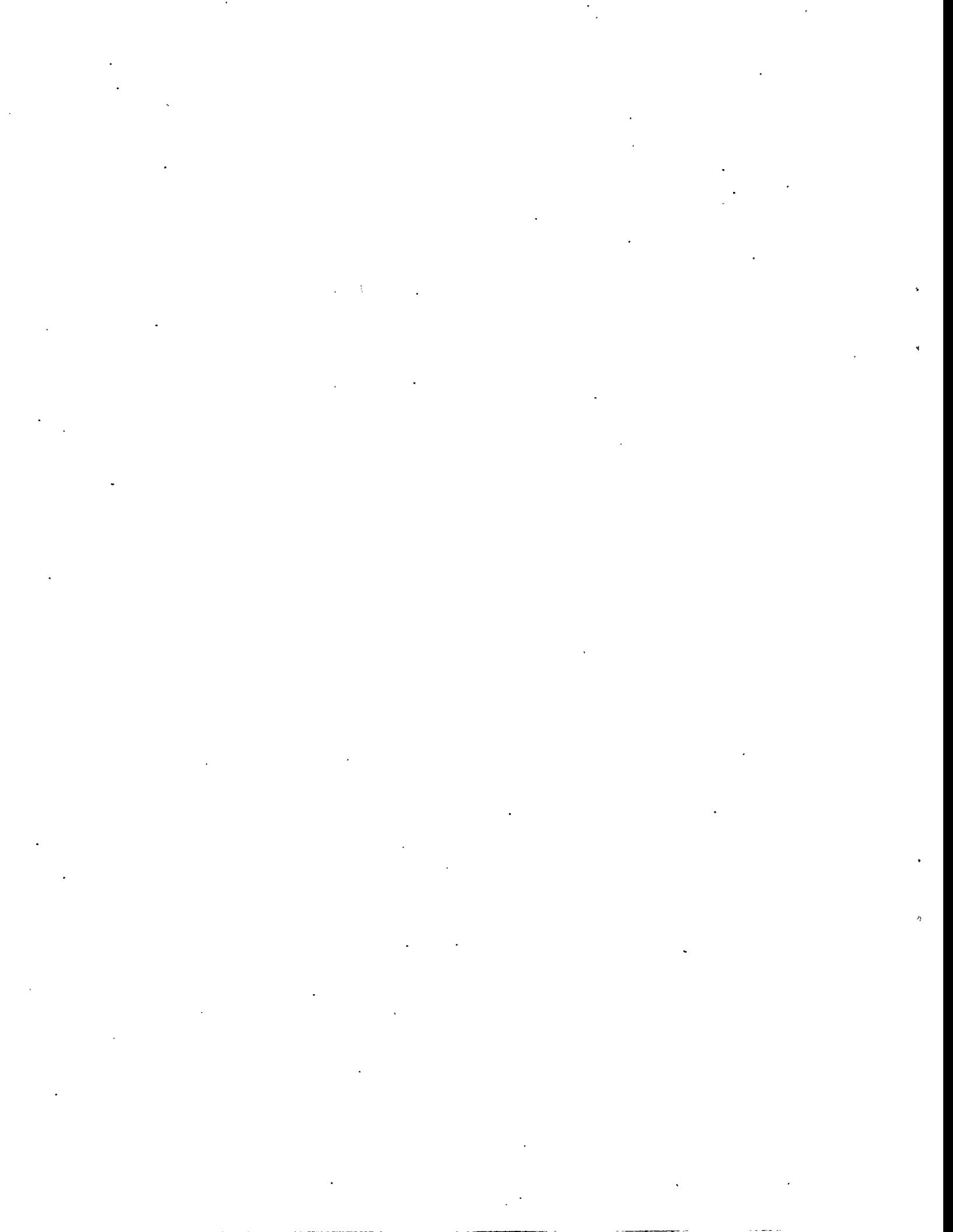
## ESTIMATES vs ACTUALS

Activity ID	Job Number	Job Description	Date	Month	Est. Dose	% of total	Actual Dose	actual %	ACT/EST
RWP-009	MANIPULATOR REPAIR	November	408	18.9	5	0.2	0.2	0.01	
RWP-017	WASTE PACKAGING/COMPACTING	November	20	0.9	5	0.2	0.2	0.25	
40058J	324-95-218 Manipulator Pull - SMF	11/06/95 November	10	0.5	2	0.1	0.1	0.20	
400575	324-95-220 Manipulator Pull Dual B-Cell Replacement	11/08/95 November	40	1.9	17	0.8	0.43		
400576	324-95-221 Manipulator Pull L.H.N. B-Gallery & re-litigate R.H.	11/09/95 November	40	1.9	5	0.2	0.13		
400577	324-95-222 Manipulator Pull RHN MSM	11/10/95 November	40	1.9	15	0.7	0.38		
400578	324-95-227 Manipulator Pull RHW MSM	11/14/95 November	40	1.9	0	0.0	0.0	0.00	
40047X	324-95-228 Air Lock PT Clean Up LLW -A/L Prep. for Pipe Tr	11/15/95 November	321	14.9	345	16.0	1.07		
	324-95-229 DOS "A" Frame	11/14/95 November	100	4.6	151	7.0	1.51		
		CY Estimate-Month of November	2161						
		Estimated Dose for Activities Completed	1019						
		Act/Actual Est	0.53						
		Actual Dose Received for Activities Completed	545						
		Numbers in Italics were not included in the original CY estimate. They are included here for the sake of comparison to the actual dose.							

## DECEMBER 95

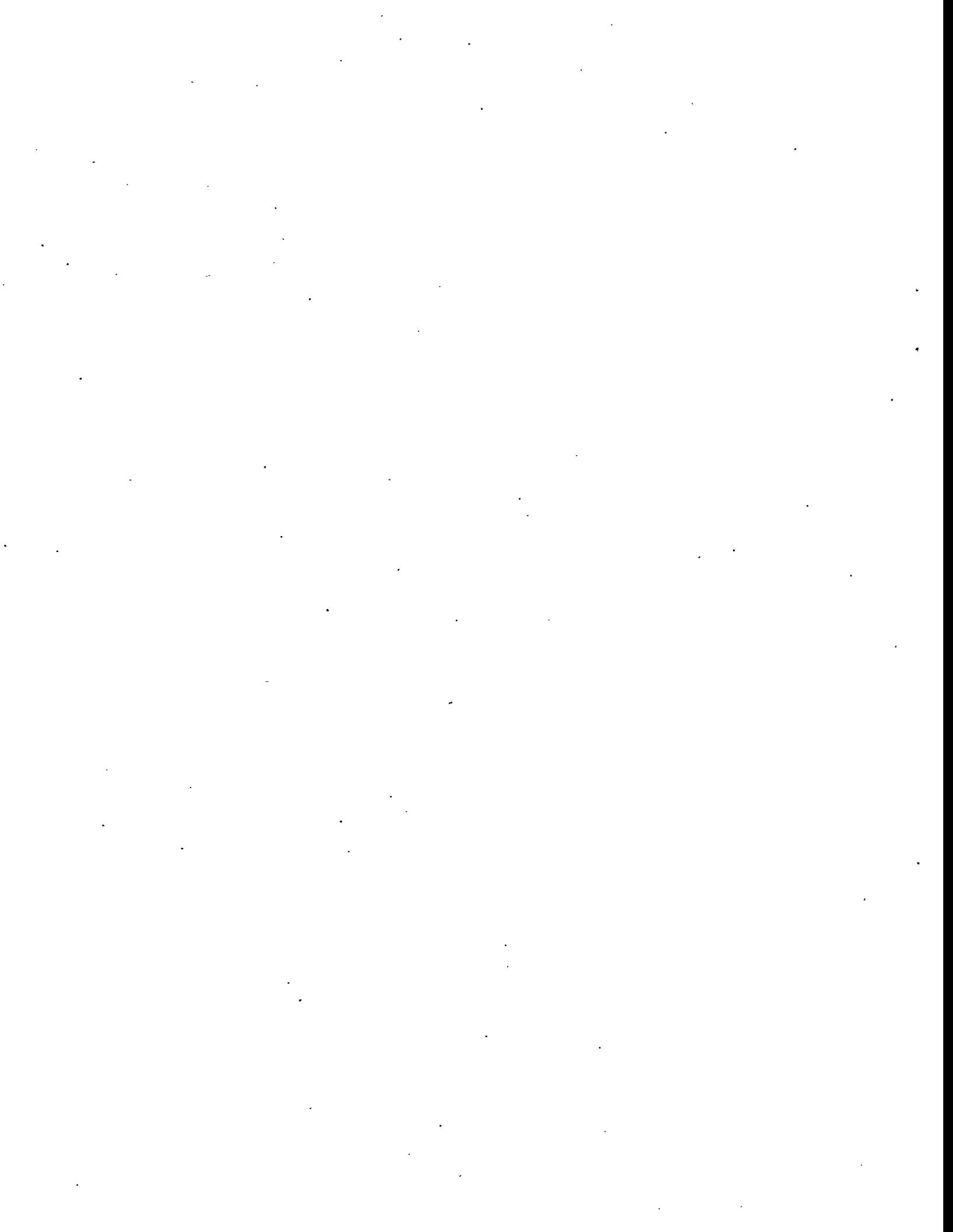
## ESTIMATES vs ACTUALS

Activity ID	Job Number	Job Description	Date	Month	Est. Dose	% of total	Actual Dose	actual %	ACT/EST
40057Q	RWP-009	Manipulator Repair	December	December	408	33.2	223	18.1	0.55
5000016	RWP-017	Waste Compactor/Decon	December	December	20	1.6	2	0.2	0.10
40255J	324-95-235	Air Lock Clean Up LLW -Repair Turntable Wiring	12/01/95	December	535	43.5	620	50.4	1.16
600220A	324-95-241	Air Lock PT to remove coverblocks	12/07/95	December	420	34.1	486	39.5	1.16
400578	324-95-244	Manipulator Pull RHS - B-Cell gallery	12/12/95	December	40	3.3	7	0.6	0.18
60051D	324-95-245	5-Ton Air Lock Cleanout for Crane PM	12/12/95	December	305	24.8	463	37.6	1.52
400415B	324-95-246	5-Ton AD Crane PM	12/13/95	December	1600	130.1	1067	86.7	0.67
BC400579	324-95-248	Manipulator Pull (2)	12/15/95	December	40	3.3	7	0.6	0.18
400580	324-95-251	Manipulator Pull B-Gallery, South Window	12/22/95	December	40	3.3	6	0.5	0.15
6030NA	324-95-253	Install Neutron Analyzer	12/28/95	December	200	16.3	194	15.8	0.97
		CY Estimate—Month of December			1230				
		Estimated Dose for Activities Completed			3608				
		Act/Actual Est					0.85		
		Actual Dose Received for Activities Completed					3075		
		Numbers in Italics were not included in the original CY estimate. They are included here for the sake of comparison to the actual dose.							



## **Appendix B**

### **324 Facility Radiation Dose Estimates for CY 1996**



## **Appendix B Contents**

Section 1	Resource Loading Report .....	B.2
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Section 5	Resource Loading Detail by Resource KEH .....	B.48
Section 6	Resource Loading Detail by Activity KEH .....	B.54

**RESOURCE  
LOADING  
REPORT**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 12DEC95 RUN NO. 195  
13:27

## RESOURCE LOADING REPORT

START DATE 01JAN95 FIN DATE 3

DATA DATE 01JAN95 PAGE NO.

## RESOURCE LOADING - TOTAL MONTHLY SUMMARY

## TOTAL USAGE FOR MONTH

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
<b>CRAFT - CRAFT</b>														
AB	AIR BALANCE	1760	240		440	40			240	200		400		200
EL	ELECTRICIAN	3290		600	60	540			650	1000	440			
MW	MILLWRIGHT	12360	465	1335	975	1145	395	455	1675	3165	1345	865	55	465
TOTAL	CRAFT	17410	705	1935	1475	1725	395	455	2565	4365	1785	1265	55	665
<b>HCO - HOT CELL OPERATIONS</b>														
AS	ASSIST	1500	153	93	143	106	136	97	348	80	48	128	75	95
ENT	ENTRY PERSON	5450	775	375	600	470	680	400	500		225	525	450	450
LA	LABORER	1200	100	100	100	100	100	100	100	100	100	100	100	100
TECH	HOT CELL TECHNICIAN	7620	620	260	875	334	341	319	659	1403	1160	860	230	.560
UND	UNDRESSER	2205	165	325	145	321	194	155	150	360	105	105	90	90
TOTAL	HCO	17975	1813	1153	1863	1331	1451	1070	1757	1943	1638	1718	945	1295
<b>KEH - KAISER</b>														
AS	ASSIST	90	30							45	15			
EL	ELECTRICIAN	900	300							450	150			
IR	IRONWORKER	1800	600							900	300			
LA	LABORER	1020	310	10	10	10	10	10	10	460	160	10	10	10
PF	PIPEFITTER													
UND	UNDRESSER	300	100							150	50			
WE	WELDER													
TOTAL	KEH	4110	1340	10	10	10	10	10	10	2005	675	10	10	10
<b>RPT - RCT</b>														
RPT	RCT	5885	596	542	604	613	543	493	542	640	221	491	249	353
TOTAL	RPT	5885	596	542	604	613	543	493	542	640	221	491	249	353
<b>REPORT TOTAL</b>														
		133805	4453	3639	3952	3679	2399	2029	4874	8973	4318	3483	1259	2323

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
<b>01JAN96</b>					
BCD313	C	Loadout 3rd G.C. REFR Brick in Airlock	01JAN96	280.00	2
BC14120	G	INSTALL 3-1/2 TON CRANE	02JAN96	1,330.00	7
SF108	X	Waste Disposal	02JAN96*	30.00	1
BC186	R	Waste Compaction/Decon	03JAN96	10.00	1
SM324	AA	Misc. Cask Load/Unload	03JAN96	30.00	1
BCD405	C	Loadout of Melter Glass in Airlock	04JAN96	280.00	1
BC150	Q	Manipulator Changeouts	10JAN96	34.00	1
SM150	P	Manipulator Changeouts	10JAN96	10.00	1
SM326	AA	Misc. Cask Load/Unload	10JAN96	30.00	1
BCPX4716	C	1st Loadout of High Dose Metals in Airlock (scw)	12JAN96	280.00	2
HL 33	B	Install Vacuum Tank in D-Cell	15JAN96	225.00	2
SM328	AA	Misc. Cask Load/Unload	15JAN96	30.00	1
BC131	O	Manipulator Decon and Repair	16JAN96	145.00	1
BC5669	BB	Moving Waste for NDA	16JAN96	100.00	1
PM260	L	A-Frames	20JAN96*	95.00	1
BCPX4711	C	Loadt of Mitr Feed/Liq Mttr Seal/Oil Abs in Airlk	22JAN96	280.00	2
SM330	AA	Misc. Cask Load/Unload	22JAN96	30.00	1
BC2224	Z	HEPA A-Frame Dos	29JAN96	1,020.00	1
SM332	AA	Misc. Cask Load/Unload	29JAN96	30.00	1
BC152	Q	Manipulator Changeouts	30JAN96	34.00	1
SM152	P	Manipulator Changeouts	30JAN96	10.00	1
BCPX4741	C	1st Loadout of Refractory in Airlock	31JAN96	280.00	2
<b>01FEB96</b>					
BCPX4721	C	1st Loadout of Dispersible in Airlock	02FEB96	280.00	2
BC188	R	Waste Compaction/Decon	05FEB96	10.00	1
SM334	AA	Misc. Cask Load/Unload	05FEB96	30.00	1
BC 28193	S	RM11POG Filter Changeout	06FEB96	110.00	1
BCPX4736	C	2nd Loadout of Dispersible in Airlock	06FEB96	280.00	2
BC 90040	D	5th CRANE MAINTENANCE -FY96	07FEB96	2,380.00	5
SF109	X	Waste Disposal	12FEB96*	30.00	1
SM336	AA	Misc. Cask Load/Unload	12FEB96	30.00	1
BC6670	BB	Moving Waste for NDA	16FEB96	100.00	1
BC132	O	Manipulator Decon and Repair	20FEB96	145.00	1
BC154	Q	Manipulator Changeouts	20FEB96	34.00	1
SM154	P	Manipulator Changeouts	20FEB96	10.00	1
SM338	AA	Misc. Cask Load/Unload	20FEB96	30.00	1

Project Start 01JAN95 324T  
 Project Finish 18JUL96  
 Data Date 01JAN95  
 Plot Date 12DEC95

Sheet 1 of 6

### 1996 324 FACILITY DOSE ESTIMATES

Calendar Year

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
SM340	AA	Misc. Cask Load/Unload	27FEB96	30.00	1
<b>01MAR96</b>					
BC190	R	Waste Compaction/Decon	04MAR96	10.00	1
SM342	AA	Misc. Cask Load/Unload	04MAR96	30.00	1
BCSP2000	C	Shipment #1 Load and Decon Overpacks	05MAR96	280.00	6
BC156	Q	Manipulator Changeouts	08MAR96	34.00	1
SM156	P	Manipulator Changeouts	08MAR96	10.00	1
SM344	AA	Misc. Cask Load/Unload	11MAR96	30.00	1
BC133	O	Manipulator Decon and Repair	13MAR96	145.00	1
BCSP2010	C	Shipment #1 Prep, Load, and Leak Test Cask	13MAR96	280.00	4
SF110	X	Waste Disposal	13MAR96*	30.00	1
BC 60031	C	WASTE CAMPAIGN # 6 (SEP95)	15MAR96	280.00	4
PM268	L	Annual HEPA filter PM	16MAR96*	95.00	1
BC6671	BB	Moving Waste for NDA	18MAR96	100.00	1
SM346	AA	Misc. Cask Load/Unload	18MAR96	30.00	1
PM312	N	D-Cell A-Frame cable repair	19MAR96*	1,020.00	1
SM348	AA	Misc. Cask Load/Unload	27MAR96	30.00	1
SM158	P	Manipulator Changeouts	28MAR96	10.00	1
BC 50200	D	CRANE MAINTENANCE	29MAR96	2,380.00	10
BCD323	C	SEG Casak Shipment / Liner # ??	29MAR96	280.00	1
PM310	N	B-Cell A-Frame change	29MAR96*	1,020.00	1
<b>01APR96</b>					
BC158	Q	Manipulator Changeouts	01APR96	34.00	1
PN 20	M	Receive 29 Fuel Pins from ANL-W @ 324	01APR96*	45.00	3
BC192	R	Waste Compaction/Decon	03APR96	10.00	1
SM350	AA	Misc. Cask Load/Unload	03APR96	30.00	1
PN 21	M	Transfer 9 ACO-3 Pins from 324 to 327	04APR96	45.00	30
SM352	AA	Misc. Cask Load/Unload	10APR96	30.00	1
BCSP2020	C	Shipment #2 Load, Decon, and Leak Test	12APR96	280.00	6
BC160	Q	Manipulator Changeouts	16APR96	34.00	1
SM160	P	Manipulator Changeouts	16APR96	10.00	1
BCD327	C	SEG Cask Shipment /Liner # ??	17APR96	280.00	1
SF111	X	Waste Disposal	17APR96*	30.00	1
SM354	AA	Misc. Cask Load/Unload	17APR96	30.00	1
BC6672	BB	Moving Waste for NDA	18APR96	100.00	1
PM262	L	A-Frames	20APR96*	95.00	1
BC134	O	Manipulator Decon and Repair	22APR96	145.00	1
BCSP2025	C	Shipment #2 Prep, Load, and Leak Test Cask	22APR96	280.00	4
SM356	AA	Misc. Cask Load/Unload	29APR96	30.00	1
HL 20	B	Install In Cell Equip. & gallery services	30APR96	225.00	5
<b>01MAY96</b>					

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
BCSP2035	C	Shipment #3 Load, Decon, and Leak Test	01MAY96	280.00	6
PN 23	M	Store C-1 Shipment at 324	01MAY96	45.00	.69
BC194	R	Waste Compaction/Decon	03MAY96	10.00	1
PN 114	M	Xfer Pkgd Fuel Pins to G-Cell or SMF for clng	03MAY96*	45.00	20
SM358	AA	Misc. Cask Load/Unload	03MAY96	30.00	1
BC162	Q	Manipulator Changeouts	06MAY96	34.00	1
SM162	P	Manipulator Changeouts	06MAY96	10.00	.1
BC 28194	S	RM11POG Filter Changeout	07MAY96	110.00	1
BCSP2040	C	Shipment #3 Prep, Load, and Leak Test Cask	09MAY96	280.00	4
SM360	AA	Misc. Cask Load/Unload	10MAY96	30.00	1
BC6673	BB	Moving Waste for NDA	16MAY96	100.00	1
BC122	O	Manipulator Decon and Repair	17MAY96	145.00	1
BCSP2050	C	Shipment #4 Load, Decon, and Leak Test	17MAY96	280.00	6
SFT12	X	Waste Disposal	17MAY96*	30.00	1
SM362	AA	Misc. Cask Load/Unload	17MAY96	30.00	1
BC164	Q	Manipulator Changeouts	23MAY96	34.00	1
SM164	P	Manipulator Changeouts	23MAY96	10.00	.1
SM364	AA	Misc. Cask Load/Unload	24MAY96	30.00	1
BCSP2055	C	Shipment #4 Prep, Load, and Leak Test Cask	27MAY96	280.00	4
BC 600230	A	SPRAY DOWN COVER BLOCKS & REINSTALL	28MAY96	420.00	2
<b>01JUN96</b>					
PN 115	M	Transfer Packaged Fuel to SMF @ 324	03JUN96*	45.00	2
SM366	AA	Misc. Cask Load/Unload	03JUN96	30.00	1
BC196	R	Waste Compaction/Decon	04JUN96	10.00	1
BCSP2065	C	Shipment #5 Load, Decon, and Leak Test	05JUN96	280.00	6
PM296	K	REC Door PM	10JUN96*	730.00	2
SM368	AA	Misc. Cask Load/Unload	10JUN96	30.00	1
BC166	Q	Manipulator Changeouts	11JUN96	34.00	1
SM166	P	Manipulator Changeouts	11JUN96	10.00	.1
BCSP2070	C	Shipment #5 Prep, Load, and Leak Test Cask	13JUN96	280.00	4
BC126	O	Manipulator Decon and Repair	17JUN96	145.00	1
BC6674	BB	Moving Waste for NDA	17JUN96	100.00	1
SM370	AA	Misc. Cask Load/Unload	17JUN96	30.00	1
SFT13	X	Waste Disposal	24JUN96*	30.00	1
SM372	AA	Misc. Cask Load/Unload	24JUN96	30.00	1
BCSP2080	C	Shipment #6 Load, Decon, and Leak Test	25JUN96	280.00	6
PN 18	M	Ship Consolidated SERF-FFT F Pins from 327 to	25JUN96*	45.00	1
<b>01JUL96</b>					
BC168	Q	Manipulator Changeouts	01JUL96	34.00	1
BC2226	Z	REPA A-Frame Dos	01JUL96	1,020.00	1
DC400415	W	D-Cell Crane Prev. Maint.	01JUL96*	1,825.00	1

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
SM168	P	Manipulator Changeouts	01JUL96	10.00	1
SM374	AA	Misc. Cask Load/Unload	01JUL96	30.00	1
BCSP2085	C	Shipment #6 Prep, Load, and Leak Test Cask	03JUL96	280.00	4
BC198	R	Waste Compaction/Decon	08JUL96	10.00	1
SM376	AA	Misc. Cask Load/Unload	08JUL96	30.00	1
BC125	O	Manipulator Decon and Repair	12JUL96	145.00	1
BC6675	BB	Moving Waste for NDA	16JUL96	100.00	1
BCSP2095	C	Shipment #7 Load, Decon, and Leak Test	17JUL96	280.00	6
SM378	AA	Misc. Cask Load/Unload	17JUL96	30.00	1
BC170	Q	Manipulator Changeouts	18JUL96	34.00	1
SM170	P	Manipulator Changeouts	18JUL96	10.00	1
PM264	L	A-Frames	20JUL96*	95.00	1
SM380	AA	Misc. Cask Load/Unload	24JUL96	30.00	1
BC50032	CC	Remove Airlock Service Jumpers - 1A	25JUL96	420.00	4
BCSP2100	C	Shipment #7 Prep, Load, and Leak Test Cask	25JUL96	280.00	4
SF114	X	Waste Disposal	25JUL96*	30.00	1
SM382	AA	Misc. Cask Load/Unload	30JUL96	30.00	1
BC172	Q	Manipulator Changeouts	31JUL96	34.00	1
SM172	P	Manipulator Changeouts	31JUL96	10.00	1
<b>01AUG96</b>					
SM384	AA	Misc. Cask Load/Unload	01AUG96	30.00	1
BC 150050	D	Decontaminate 6-Ton Crane	05AUG96	2,380.00	5
BC200	R	Waste Compaction/Decon	05AUG96	10.00	1
SM386	AA	Misc. Cask Load/Unload	07AUG96	30.00	1
BC 28195	S	RM11POG Filter Changeout	08AUG96*	110.00	1
BC600230	A	Spray Down Coverblocks & Reinstall	08AUG96	420.00	2
SC400415	V	S-Cell Par Prev. Maint.	08AUG96	2,520.00	1
PN 24	M	Ship C-1 Shipment to FFTF	09AUG96*	45.00	5
PN 25	M	Ship MFA-1/MFA-2/ACO-3 Fuel Pins to FFTF	09AUG96	45.00	5
PN 26	M	Ship PNC Waste (SERF Cell Fuel Pins) to FFTF	09AUG96*	45.00	5
BC 150055	G	Remove 6-Ton Crane	12AUG96	1,330.00	10
BC127	O	Manipulator Decon and Repair	15AUG96	145.00	1
BC6676	BB	Moving Waste for NDA	19AUG96	100.00	1
BC174	Q	Manipulator Changeouts	20AUG96	34.00	1
SM174	P	Manipulator Changeouts	20AUG96	10.00	1
BC 150060	G	Install 10-Ton Capacity Crane	26AUG96	1,330.00	10
BC2228	Z	HEPA A-Frame Dos	30AUG96	1,020.00	1
SF115	X	Waste Disposal	30AUG96*	30.00	1
<b>01SEP96</b>					
PN 27	M	Receive MFA-2 DS at 324 bldg from ANL-W	03SEP96*	45.00	5
SM388	AA	Misc. Cask Load/Unload	03SEP96	30.00	1

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
BC176	Q	Manipulator Changeouts	05SEP96	34.00	1
BC202	R	Waste Compaction/Decon	05SEP96	10.00	1
SM176	P	Manipulator Changeouts	05SEP96	10.00	1
SM390	AA	Misc. Cask Load/Unload	10SEP96	30.00	1
BC6677	BB	Moving Waste for NDA	16SEP96	100.00	1
EC400415D6	U	E-Cell Par Prev. Maint.	16SEP96	185.00	1
SC400416	V	S-Cell Crane Prev. Maint.	16SEP96	2,520.00	1
SM392	AA	Misc. Cask Load/Unload	17SEP96	30.00	1
BC128	O	Manipulator Decon and Repair	19SEP96	145.00	1
BC560	C	LLW Loadout	23SEP96	280.00	2
SF116	X	Waste Disposal	24SEP96*	30.00	1
SM394	AA	Misc. Cask Load/Unload	24SEP96	30.00	1
BC178	Q	Manipulator Changeouts	30SEP96	34.00	1
BC562	C	LLW Loadout	30SEP96	280.00	2
<b>01OCT96</b>					
BC2238	Z	HEPA A-Frame Dos	01OCT96	1,020.00	1
BC555	C	LLW Loadout	01OCT96	280.00	2
SM400	AA	Misc. Cask Load/Unload	03OCT96	30.00	1
BC220	Q	Manipulator Changeouts	07OCT96	34.00	1
SM200	P	Manipulator Changeouts	07OCT96	10.00	1
BC298	R	Waste Compaction/Decon	08OCT96	10.00	1
SM402	AA	Misc. Cask Load/Unload	10OCT96	30.00	1
BC149	O	Manipulator Decon and Repair	14OCT96	145.00	1
BC557	C	LLW Loadout	15OCT96	280.00	2
BC6678	BB	Moving Waste for NDA	16OCT96	100.00	1
SM404	AA	Misc. Cask Load/Unload	17OCT96	30.00	1
SM406	AA	Misc. Cask Load/Unload	24OCT96	30.00	1
BC222	Q	Manipulator Changeouts	25OCT96	34.00	1
BC242	P	Manipulator Changeouts	25OCT96	10.00	1
PM330	N	B-Cell A-Frame change	29OCT96*	1,020.00	1
BC559	C	LLW Loadout	30OCT96	280.00	2
<b>01NOV96</b>					
BC561	C	LLW Loadout	04NOV96	280.00	2
SM408	AA	Misc. Cask Load/Unload	04NOV96	30.00	1
BC300	R	Waste Compaction/Decon	08NOV96	10.00	1
BC244	Q	Manipulator Changeouts	11NOV96	34.00	1
SM244	P	Manipulator Changeouts	11NOV96	10.00	1
SM410	AA	Misc. Cask Load/Unload	11NOV96	30.00	1
BC563	C	LLW Loadout	15NOV96	280.00	2
BC151	O	Manipulator Decon and Repair	18NOV96	145.00	1
SM412	AA	Misc. Cask Load/Unload	18NOV96	30.00	1

Activity ID	Est. Type	Activity Description	Planned Start	Total Dose	Original duration
BC6679	BB	Moving Waste for NDA	20NOV96	100.00	1
SM414	AA	Misc. Cask Load/Unload	25NOV96	30.00	1
BC565	C	LLW Loadout	28NOV96	280.00	2

01DEC96

BC2230	Z	HEPA A-Frame Dos	02DEC96	1,020.00	1
BC246	Q	Manipulator Changeouts	02DEC96	34.00	1
BC567	C	LLW Loadout	02DEC96	280.00	2
SM246	P	Manipulator Changeouts	02DEC96	10.00	1
SM416	AA	Misc. Cask Load/Unload	04DEC96	30.00	1
BC302	R	Waste Compaction/Decon	09DEC96	10.00	1
BC569	C	LLW Loadout	10DEC96	280.00	2
SM418	AA	Misc. Cask Load/Unload	11DEC96	30.00	1
BC153	O	Manipulator Decon and Repair	16DEC96	145.00	1
BC6680	BB	Moving Waste for NDA	16DEC96	100.00	1
SM420	AA	Misc. Cask Load/Unload	18DEC96	30.00	1
BC248	Q	Manipulator Changeouts	19DEC96	34.00	1
SM248	P	Manipulator Changeouts	19DEC96	10.00	1
SM422	AA	Misc. Cask Load/Unload	20DEC96	30.00	1
BC571	C	LLW Loadout	27DEC96	280.00	2

**RESOURCE  
LOADING  
SUMMARIES**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 208  
13:23

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

DATA DATE 01JAN95 P

## SUMMARY BY GROUP, BY MONTH, PNL &amp; KEH

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL USAGE FOR MONTH											
		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
AB	AIR BALANCE	1760	240	440	40		240	200		400		200	
AS	ASSIST	1590	183	93	143	106	136	97	348	125	63	128	75
EL	ELECTRICIAN	4190	300	600	60	540		650	1450	590			
ENT	ENTRY PERSON	5450	775	375	600	470	680	400	500		225	525	450
IR	IRONWORKER	1800	600						900	300			450
LA	LABORER	2220	410	110	110	110	110	110	110	560	260	110	110
MW	MILLWRIGHT	12360	465	1335	975	1145	395	455	1675	3185	1345	865	55
PF	PIPEFITTER												465
RPT	RCT	5885	596	542	604	613	543	493	542	640	221	491	249
TECH	HOT CELL TECHNICIAN	7620	620	260	875	334	341	319	659	1403	1160	860	230
UND	UNDRESSER	2505	265	325	145	321	194	155	150	510	155	105	90
WE	WELDER												90
REPORT TOTAL		45380	4453	3639	3952	3679	2399	2029	4874	8973	4318	3483	1259
													2323

PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 209 13:26				RESOURCE LOADING REPORT												START DATE 01JAN95 F DATA DATE 01JAN95 P			
SUMMARY BY GROUP, BY MONTH, KEH ONLY				TOTAL USAGE FOR MONTH															
RESOURCE	RESOURCE DESCRIPTION	TOTAL		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996				
AS	ASSIST	90	30									45	15						
EL	ELECTRICIAN	900	300									450	150						
IR	IRONWORKER	1800	600									900	300						
LA	LABORER	1020	310	10	10	10	10	10	10	10	460	160	10	10	10				
PF	PIPEFITTER																		
UND	UNDRESSER	300	100									150	50						
WE	WELDER																		
	REPORT TOTAL	4110	1340	10	10	10	10	10	10	10	2005	675	10	10	10				

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 210  
13:28

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

SUMMARY BY GROUP, BY MONTH, PNL ONLY

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 P

RESOURCE	RESOURCE DESCRIPTION	TOTAL	TOTAL USAGE FOR MONTH											
			JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
AB	AIR BALANCE	1760	240		440	40			240	200		400		200
AS	ASSIST	1500	153	93	143	106	136	97	348	80	48	128	75	95
EL	ELECTRICIAN	3290		600	60	540			650	1000	440			
ENT	ENTRY PERSON	5450	775	375	600	470	680	400	500		225	525	450	450
LA	LABORER	1200	100	100	100	100	100	100	100	100	100	100	100	100
MW	MILLWRIGHT	12360	465	1335	975	1145	395	455	1675	3185	1345	865	55	465
RPT	RCT	5885	596	542	604	613	543	493	542	640	221	491	249	353
TECH	HOT CELL TECHNICIAN	7620	620	260	875	334	341	319	659	1403	1160	860	230	560
UND	UNDRESSER	2205	165	325	145	321	194	155	150	360	105	105	90	90
REPORT TOTAL		41270	3113	3629	3942	3669	2389	2019	4864	6968	3643	3473	1249	2313

**RESOURCE  
LOADING  
DETAIL  
BY ACTIVITY  
PNNL**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
15:33

## RESOURCE LOADING REPORT

START DATE 01JAN9

DATA DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BC 28193 - RM11POG Filter Changeout														
MW	MILLWRIGHT		80		80									
RPT	RCT		20		20									
TECH	HOT CELL TECHNICIAN		10		10									
TOTAL	BC 28193		110		110									
BC 28194 - RM11POG Filter Changeout														
MW	MILLWRIGHT		80			80								
RPT	RCT		20			20								
TECH	HOT CELL TECHNICIAN		10			10								
TOTAL	BC 28194		110			110								
BC 28195 - RM11POG Filter Changeout														
MW	MILLWRIGHT		80				80							
RPT	RCT		20			20								
TECH	HOT CELL TECHNICIAN		10			10								
TOTAL	BC 28195		110			110								
BC 50200 - CRANE MAINTENANCE														
AS	ASSIST		30		3	27								
EL	ELECTRICIAN		600		60	540								
MW	MILLWRIGHT		1200		120	1080								
RPT	RCT		300		30	270								
UND	UNDRESSER		250		25	225								
TOTAL	BC 50200		2380		238	2142								
BC 60031 - WASTE CAMPAIGN # 6 (SEP95)														
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BC 60031		280		280									
BC 90040 - 5th CRANE MAINTENANCE -FY96														
AS	ASSIST		30		30									
EL	ELECTRICIAN		600		600									
MW	MILLWRIGHT		1200		1200									
RPT	RCT		300		300									
UND	UNDRESSER		250		250									
TOTAL	BC 90040		2380		2380									
BC 150050 - Decontaminate 6-Ton Crane														
AS	ASSIST		30			30								
EL	ELECTRICIAN		600			600								
MW	MILLWRIGHT		1200			1200								
RPT	RCT		300			300								
UND	UNDRESSER		250			250								
TOTAL	BC 150050		2380			2380								
BC 600230 - SPRAY DOWN COVER BLOCKS & REINSTALL														
AS	ASSIST		20			20								
MW	MILLWRIGHT		250			250								
RPT	RCT		100			100								
UND	UNDRESSER		50			50								
TOTAL	BC 600230		420			420								

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
15:33

RESOURCE LOADING REPORT

START DATE 01JAN9

DATA DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
BC122	- Manipulator Decon and Repair													
LA	LABORER	100												
MW	MILLWRIGHT	45												
TOTAL	BC122	145												
BC125	- Manipulator Decon and Repair													
LA	LABORER	100								100				
MW	MILLWRIGHT	45								45				
TOTAL	BC125	145								145				
BC126	- Manipulator Decon and Repair													
LA	LABORER	100								100				
MW	MILLWRIGHT	45								45				
TOTAL	BC126	145								145				
BC127	- Manipulator Decon and Repair													
LA	LABORER	100								100				
MW	MILLWRIGHT	45								45				
TOTAL	BC127	145								145				
BC128	- Manipulator Decon and Repair													
LA	LABORER	100								100				
MW	MILLWRIGHT	45								45				
TOTAL	BC128	145								145				
BC131	- Manipulator Decon and Repair													
LA	LABORER	100	100											
MW	MILLWRIGHT	45	45											
TOTAL	BC131	145	145											
BC132	- Manipulator Decon and Repair													
LA	LABORER	100		100										
MW	MILLWRIGHT	45		45										
TOTAL	BC132	145		145										
BC133	- Manipulator Decon and Repair													
LA	LABORER	100		100										
MW	MILLWRIGHT	45		45										
TOTAL	BC133	145		145										
BC134	- Manipulator Decon and Repair													
LA	LABORER	100		100										
MW	MILLWRIGHT	45		45										
TOTAL	BC134	145		145										
BC149	- Manipulator Decon and Repair													
LA	LABORER	100								100				
MW	MILLWRIGHT	45								45				
TOTAL	BC149	145								145				

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
15:33

## RESOURCE LOADING REPORT

START DATE 01JAN9

DATA DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BC150	- Manipulator Changeouts													
MW	MILLWRIGHT		10	10										
RPT	RCT		4	4										
TECH	HOT CELL TECHNICIAN		20	20										
TOTAL	BC150		34	34										
BC151	- Manipulator Decon and Repair													
LA	LABORER		100											
MW	MILLWRIGHT		45										100	45
TOTAL	BC151		145											145
BC152	- Manipulator Changeouts													
MW	MILLWRIGHT		10	10										
RPT	RCT		4	4										
TECH	HOT CELL TECHNICIAN		20	20										
TOTAL	BC152		34	34										
BC153	- Manipulator Decon and Repair													
LA	LABORER		100											
MW	MILLWRIGHT		45										100	45
TOTAL	BC153		145											145
BC154	- Manipulator Changeouts													
MW	MILLWRIGHT		10		10									
RPT	RCT		4		4									
TECH	HOT CELL TECHNICIAN		20		20									
TOTAL	BC154		34		34									
BC156	- Manipulator Changeouts													
MW	MILLWRIGHT		10		10									
RPT	RCT		4		4									
TECH	HOT CELL TECHNICIAN		20		20									
TOTAL	BC156		34		34									
BC158	- Manipulator Changeouts													
MW	MILLWRIGHT		10			10								
RPT	RCT		4			4								
TECH	HOT CELL TECHNICIAN		20			20								
TOTAL	BC158		34			34								
BC160	- Manipulator Changeouts													
MW	MILLWRIGHT		10			10								
RPT	RCT		4			4								
TECH	HOT CELL TECHNICIAN		20			20								
TOTAL	BC160		34			34								
BC162	- Manipulator Changeouts													
MW	MILLWRIGHT		10			10								
RPT	RCT		4			4								
TECH	HOT CELL TECHNICIAN		20			20								
TOTAL	BC162		34			34								

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## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL USAGE FOR MONTH											
		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BC164	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC164	34							34				
BC166	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC166	34							34				
BC168	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC168	34							34				
BC170	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC170	34							34				
BC172	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC172	34							34				
BC174	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC174	34							34				
BC176	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC176	34							34				
BC178	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC178	34							34				
BC220	- Manipulator Changeouts												
MW	MILLWRIGHT	10							10				
RPT	RCT	4							4				
TECH	HOT CELL TECHNICIAN	20							20				
TOTAL	BC220	34							34				

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## TOTAL USAGE FOR MONTH

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RESOURCE	RESOURCE DESCRIPTION	TOTAL USAGE FOR MONTH											
		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BC222	- Manipulator Changeouts												
MW	MILLWRIGHT	10											10
RPT	RCT	4											4
TECH	HOT CELL TECHNICIAN	20											20
TOTAL	BC222	34											34
BC2224	- HEPA A-Frame Dos												
AB	AIR BALANCE	200	200										
AS	ASSIST	20	20										
MW	MILLWRIGHT	400	400										
RPT	RCT	100	100										
TECH	HOT CELL TECHNICIAN	300	300										
TOTAL	BC2224	1020	1020										
BC2226	- HEPA A-Frame Dos												
AB	AIR BALANCE	200								200			
AS	ASSIST	20								20			
MW	MILLWRIGHT	400								400			
RPT	RCT	100								100			
TECH	HOT CELL TECHNICIAN	300								300			
TOTAL	BC2226	1020								1020			
BC2228	- HEPA A-Frame Dos												
AB	AIR BALANCE	200								200			
AS	ASSIST	20								20			
MW	MILLWRIGHT	400								400			
RPT	RCT	100								100			
TECH	HOT CELL TECHNICIAN	300								300			
TOTAL	BC2228	1020								1020			
BC2230	- HEPA A-Frame Dos												
AB	AIR BALANCE	200								200			
AS	ASSIST	20								20			
MW	MILLWRIGHT	400								400			
RPT	RCT	100								100			
TECH	HOT CELL TECHNICIAN	300								300			
TOTAL	BC2230	1020								1020			
BC2238	- HEPA A-Frame Dos												
AB	AIR BALANCE	200								200			
AS	ASSIST	20								20			
MW	MILLWRIGHT	400								400			
RPT	RCT	100								100			
TECH	HOT CELL TECHNICIAN	300								300			
TOTAL	BC2238	1020								1020			
BC242	- Manipulator Changeouts												
TECH	HOT CELL TECHNICIAN	10									10		
TOTAL	BC242	10									10		
BC244	- Manipulator Changeouts												
MW	MILLWRIGHT	10									10		
RPT	RCT	4									4		
TECH	HOT CELL TECHNICIAN	20									20		
TOTAL	BC244	34									34		

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## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
<b>BC246 - Manipulator Changeouts</b>														
MW	MILLWRIGHT		10											10
RPT	RCT		4											4
TECH	HOT CELL TECHNICIAN		20											20
TOTAL	BC246		34											34
<b>BC248 - Manipulator Changeouts</b>														
MW	MILLWRIGHT		10											10
RPT	RCT		4											4
TECH	HOT CELL TECHNICIAN		20											20
TOTAL	BC248		34											34
<b>BC50032 - Remove Airlock Service Jumpers - 1A</b>														
AS	ASSIST		20											20
EL	ELECTRICIAN		250											250
RPT	RCT		100											100
UND	UNDRESSER		50											50
TOTAL	BC50032		420											420
<b>BC555 - LLW Loadout</b>														
AS	ASSIST		25											25
ENT	ENTRY PERSON		150											150
RPT	RCT		75											75
UND	UNDRESSER		30											30
TOTAL	BC555		280											280
<b>BC557 - LLW Loadout</b>														
AS	ASSIST		25											25
ENT	ENTRY PERSON		150											150
RPT	RCT		75											75
UND	UNDRESSER		30											30
TOTAL	BC557		280											280
<b>BC559 - LLW Loadout</b>														
AS	ASSIST		25											25
ENT	ENTRY PERSON		150											150
RPT	RCT		75											75
UND	UNDRESSER		30											30
TOTAL	BC559		280											280
<b>BC560 - LLW Loadout</b>														
AS	ASSIST		25											25
ENT	ENTRY PERSON		150											150
RPT	RCT		75											75
UND	UNDRESSER		30											30
TOTAL	BC560		280											280
<b>BC561 - LLW Loadout</b>														
AS	ASSIST		25											25
ENT	ENTRY PERSON		150											150
RPT	RCT		75											75
UND	UNDRESSER		30											30
TOTAL	BC561		280											280

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## TOTAL USAGE FOR MONTH

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RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BC562	- LLW Loadout													
AS	ASSIST	25									13	13		
ENT	ENTRY PERSON	150									75	75		
RPT	RCT	75									38	38		
UND	UNDRESSER	30									15	15		
TOTAL	BC562	280									140	140		
BC563	- LLW Loadout													
AS	ASSIST	25									25			
ENT	ENTRY PERSON	150									150			
RPT	RCT	75									75			
UND	UNDRESSER	30									30			
TOTAL	BC563	280									280			
BC565	- LLW Loadout													
AS	ASSIST	25									25			
ENT	ENTRY PERSON	150									150			
RPT	RCT	75									75			
UND	UNDRESSER	30									30			
TOTAL	BC565	280									280			
BC567	- LLW Loadout													
AS	ASSIST	25									25			
ENT	ENTRY PERSON	150									150			
RPT	RCT	75									75			
UND	UNDRESSER	30									30			
TOTAL	BC567	280									280			
BC569	- LLW Loadout													
AS	ASSIST	25									25			
ENT	ENTRY PERSON	150									150			
RPT	RCT	75									75			
UND	UNDRESSER	30									30			
TOTAL	BC569	280									280			
BC571	- LLW Loadout													
AS	ASSIST	25									25			
ENT	ENTRY PERSON	150									150			
RPT	RCT	75									75			
UND	UNDRESSER	30									30			
TOTAL	BC571	280									280			
BC600230	- Spray Down Coverblocks & Reinstall													
AS	ASSIST	20									20			
MW	MILLWRIGHT	250									250			
RPT	RCT	100									100			
UND	UNDRESSER	50									50			
TOTAL	BC600230	420									420			
BC6669	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100	100											
TOTAL	BC6669	100	100											
BC6670	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100		100										

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## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
BC6670	- Moving Waste for NDA													
TOTAL	BC6670	100	100											
BC6671	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100			100									
TOTAL	BC6671	100			100									
BC6672	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100				100								
TOTAL	BC6672	100				100								
BC6673	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100					100							
TOTAL	BC6673	100					100							
BC6674	- Moving Waste for NDA													
TECH	HOT CELL TECHNICIAN	100						100						
TOTAL	BC6674	100						100						
BC6675	- Moving Waste for NDA								100					
TECH	HOT CELL TECHNICIAN	100							100					
TOTAL	BC6675	100							100					
BC6676	- Moving Waste for NDA									100				
TECH	HOT CELL TECHNICIAN	100								100				
TOTAL	BC6676	100								100				
BC6677	- Moving Waste for NDA										100			
TECH	HOT CELL TECHNICIAN	100									100			
TOTAL	BC6677	100									100			
BC6678	- Moving Waste for NDA											100		
TECH	HOT CELL TECHNICIAN	100										100		
TOTAL	BC6678	100										100		
BC6679	- Moving Waste for NDA												100	
TECH	HOT CELL TECHNICIAN	100											100	
TOTAL	BC6679	100											100	
BC6680	- Moving Waste for NDA													100
TECH	HOT CELL TECHNICIAN	100												100
TOTAL	BC6680	100												100
BCD313	- Loadout 3rd G.C. REFR Brick in Airlock													
AS	ASSIST	25	25											
ENT	ENTRY PERSON	150	150											
RPT	RCT	75	75											
UND	UNDRESSER	30	30											

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RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BCD313	- Loadout 3rd G.C. REFR Brick in Airlock													
TOTAL	BCD313		280	280										
BCD323	- SEG Casak Shipment / Liner # ??													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCD323		280		280									
BCD327	- SEG Cask Shipment /Liner # ??													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCD327		280		280									
BCD405	- Loadout of Melter Glass in Airlock													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCD405		280		280									
BCPX4711	- Loadt of Mltr Feed/Liq Mtl Seal/Oil Abs in Airlk													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCPX4711		280		280									
BCPX4716	- 1st Loadout of High Dose Metals in Airlock (scw)													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCPX4716		280		280									
BCPX4721	- 1st Loadout of Dispersible in Airlock													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCPX4721		280		280									
BCPX4736	- 2nd Loadout of Dispersible in Airlock													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCPX4736		280		280									
BCPX4741	- 1st Loadout of Refractory in Airlock													
AS	ASSIST		25		13		13							
ENT	ENTRY PERSON		150		75		75							

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BCPX4741	- 1st Loadout of Refractory in Airlock													
RPT	RCT		75	38	38									
UND	UNDRESSER		30	15	15									
TOTAL	BCPX4741		280	140	140									
BCSP2000	- Shipment #1 Load and Decon Overpacks													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2000		280		280									
BCSP2010	- Shipment #1 Prep, Load, and Leak Test Cask													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2010		280		280									
BCSP2020	- Shipment #2 Load, Decon, and Leak Test Overpacks													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2020		280		280									
BCSP2025	- Shipment #2 Prep, Load, and Leak Test Cask													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2025		280		280									
BCSP2035	- Shipment #3 Load, Decon, and Leak Test Overpacks													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2035		280		280									
BCSP2040	- Shipment #3 Prep, Load, and Leak Test Cask													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2040		280		280									
BCSP2050	- Shipment #4 Load, Decon, and Leak Test Overpacks													
AS	ASSIST		25		25									
ENT	ENTRY PERSON		150		150									
RPT	RCT		75		75									
UND	UNDRESSER		30		30									
TOTAL	BCSP2050		280		280									

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RESOURCE	RESOURCE DESCRIPTION	TOTAL USAGE FOR MONTH											
		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
BCSP2055	- Shipment #4 Prep, Load, and Leak Test Cask												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2055	280											
BCSP2065	- Shipment #5 Load, Decon, and Leak Test Overpacks												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2065	280											
BCSP2070	- Shipment #5 Prep, Load, and Leak Test Cask												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2070	280											
BCSP2080	- Shipment #6 Load, Decon, and Leak Test Overpacks												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2080	280											
BCSP2085	- Shipment #6 Prep, Load, and Leak Test Cask												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2085	280											
BCSP2095	- Shipment #7 Load, Decon, and Leak Test Overpacks												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2095	280											
BCSP2100	- Shipment #7 Prep, Load, and Leak Test Cask												
AS	ASSIST	25											
ENT	ENTRY PERSON	150											
RPT	RCT	75											
UND	UNDRESSER	30											
TOTAL	BCSP2100	280											
DC400415	- D-Cell Crane Prev. Maint.												
AS	ASSIST	225											
EL	ELECTRICIAN	400											
MW	MILLWRIGHT	1200											
TOTAL	DC400415	1825											

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## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
EC400415D6	- E-Cell Par Prev. Maint.													
EL	ELECTRICIAN	40										40		
MW	MILLWRIGHT	80										80		
RPT	RCT	5										5		
TECH	HOT CELL TECHNICIAN	60										60		
TOTAL	EC400415D6	185										185		

## HL 20 - Install In Cell Equip. &amp; gallery services

AS	ASSIST	20					4	16						
ENT	ENTRY PERSON	100					20	80						
RPT	RCT	75					15	60						
UND	UNDRESSER	30					6	24						
TOTAL	HL 20	225					45	180						

## HL 33 - Install Vacuum Tank in D-Cell

AS	ASSIST	20	20											
ENT	ENTRY PERSON	100	100											
RPT	RCT	75	75											
UND	UNDRESSER	30	30											
TOTAL	HL 33	225	225											

## PM260 - A-Frames

AB	AIR BALANCE	40	40											
RPT	RCT	40	40											
TECH	HOT CELL TECHNICIAN	15	15											
TOTAL	PM260	95	95											

## PM262 - A-Frames

AB	AIR BALANCE	40					40							
RPT	RCT	40					40							
TECH	HOT CELL TECHNICIAN	15					15							
TOTAL	PM262	95					95							

## PM264 - A-Frames

AB	AIR BALANCE	40						40						
RPT	RCT	40						40						
TECH	HOT CELL TECHNICIAN	15						15						
TOTAL	PM264	95						95						

## PM268 - Annual HEPA filter PM

AB	AIR BALANCE	40							40					
RPT	RCT	40							40					
TECH	HOT CELL TECHNICIAN	15							15					
TOTAL	PM268	95							95					

## PM296 - REC Door PM

AS	ASSIST	30						30						
MW	MILLWRIGHT	400							400					
RPT	RCT	225							225					
UND	UNDRESSER	75							75					
TOTAL	PM296	730							730					

## PM310 - B-Cell A-Frame change

AB	AIR BALANCE	200												
AS	ASSIST	20												

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RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
PM310	- B-Cell A-Frame change													
MW	MILLWRIGHT		400		400									
RPT	RCT		100		100									
TECH	HOT CELL TECHNICIAN		300		300									
TOTAL	PM310		1020		1020									
PM312	- D-Cell A-Frame cable repair													
AB	AIR BALANCE		200		200									
AS	ASSIST		20		20									
MW	MILLWRIGHT		400		400									
RPT	RCT		100		100									
TECH	HOT CELL TECHNICIAN		300		300									
TOTAL	PM312		1020		1020									
PM330	- B-Cell A-Frame change													
AB	AIR BALANCE		200								200			
AS	ASSIST		20								20			
MW	MILLWRIGHT		400								400			
RPT	RCT		100								100			
TECH	HOT CELL TECHNICIAN		300								300			
TOTAL	PM330		1020								1020			
PN	18 - Ship Consolidated SERF-FFTF Pins from 327 to 324													
RPT	RCT		15							15				
TECH	HOT CELL TECHNICIAN		30							30				
TOTAL	PN	18	45							45				
PN	20 - Receive 29 Fuel Pins from ANL-W • 324													
RPT	RCT		15			15								
TECH	HOT CELL TECHNICIAN		30			30								
TOTAL	PN	20	45			45								
PN	21 - Transfer 9 ACO-3 Pins from 324 to 327													
RPT	RCT		15			10		6						
TECH	HOT CELL TECHNICIAN		30			19		11						
TOTAL	PN	21	45			29		17						
PN	23 - Store C-1 Shipment at 324													
RPT	RCT		15			5		4		5		1		
TECH	HOT CELL TECHNICIAN		30			10		9		9		3		
TOTAL	PN	23	45			14		13		14		4		
PN	24 - Ship C-1 Shipment to FFTF													
RPT	RCT		15							15				
TECH	HOT CELL TECHNICIAN		30							30				
TOTAL	PN	24	45							45				
PN	25 - Ship MFA-1/MFA-2/ACO-3 Fuel Pins to FFTF													
RPT	RCT		15							15				
TECH	HOT CELL TECHNICIAN		30							30				
TOTAL	PN	25	45							45				

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
PN	26 - Ship PNC Waste (SERF Cell Fuel Pins) to FFTF													
RPT	RCT		15									15		
TECH	HOT CELL TECHNICIAN		30									30		
TOTAL	PN 26		45									45		
PN	27 - Receive MFA-2 DS at 324 bldg from ANL-W													
RPT	RCT		15									15		
TECH	HOT CELL TECHNICIAN		30									30		
TOTAL	PN 27		45									45		
PN	114 - Xfer Pkgd Fuel Pins to G-Cell or SMF for clng													
RPT	RCT		15									15		
TECH	HOT CELL TECHNICIAN		30									30		
TOTAL	PN 114		45									45		
PN	115 - Transfer Packaged Fuel to SMF • 324													
RPT	RCT		15									15		
TECH	HOT CELL TECHNICIAN		30									30		
TOTAL	PN 115		45									45		
SC400415	- S-Cell Par Prev. Maint.													
AS	ASSIST		10									10		
EL	ELECTRICIAN		400									400		
MW	MILLWRIGHT		1200									1200		
RPT	RCT		50									50		
TECH	HOT CELL TECHNICIAN		800									800		
UND	UNDRESSER		60									60		
TOTAL	SC400415		2520									2520		
SC400416	- S-Cell Crane Prev. Maint.													
AS	ASSIST		10									10		
EL	ELECTRICIAN		400									400		
MW	MILLWRIGHT		1200									1200		
RPT	RCT		50									50		
TECH	HOT CELL TECHNICIAN		800									800		
UND	UNDRESSER		60									60		
TOTAL	SC400416		2520									2520		
SF108	- Waste Disposal													
RPT	RCT		10	10										
TECH	HOT CELL TECHNICIAN		20	20										
TOTAL	SF108		30	30										
SF109	- Waste Disposal													
RPT	RCT		10	10										
TECH	HOT CELL TECHNICIAN		20	20										
TOTAL	SF109		30	30										
SF110	- Waste Disposal													
RPT	RCT		10	10										
TECH	HOT CELL TECHNICIAN		20	20										
TOTAL	SF110		30	30										

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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RESOURCE LOADING REPORT

START DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
SF111	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF111		30				30							
SF112	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF112		30				30							
SF113	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF113		30				30							
SF114	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF114		30				30							
SF115	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF115		30				30							
SF116	- Waste Disposal													
RPT TECH	RCT HOT CELL TECHNICIAN		10				10							
			20				20							
TOTAL	SF116		30				30							
SM150	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN		10	10										
TOTAL	SM150		10	10										
SM152	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN		10	10										
TOTAL	SM152		10	10										
SM154	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN		10			10								
TOTAL	SM154		10			10								
SM156	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN		10			10								
TOTAL	SM156		10			10								
SM158	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN		10			10								
TOTAL	SM158		10			10								

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN9

DATA DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
SM160	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM160	10												
SM162	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM162	10												
SM164	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM164	10												
SM166	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM166	10												
SM168	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM168	10												
SM170	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM170	10												
SM172	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM172	10												
SM174	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM174	10												
SM176	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM176	10												
SM200	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM200	10												
SM244	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM244	10												
SM246	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												
TOTAL	SM246	10												

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
SM248	- Manipulator Changeouts													
TECH	HOT CELL TECHNICIAN	10												10
TOTAL	SM248	10												10
SM324	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM324	30	30											
SM326	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM326	30	30											
SM328	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM328	30	30											
SM330	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM330	30	30											
SM332	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM332	30	30											
SM334	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM334	30	30											
SM336	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM336	30	30											
SM338	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM338	30	30											
SM340	- Misc. Cask Load/Unload													
RPT	RCT	5	5											
TECH	HOT CELL TECHNICIAN	25	25											
TOTAL	SM340	30	30											
SM342	- Misc. Cask Load/Unload													
RPT	RCT	5	5											

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
SM342	- Misc. Cask Load/Unload													
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM342	30												
SM344	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM344	30												
SM346	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM346	30												
SM348	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM348	30												
SM350	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM350	30												
SM352	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM352	30												
SM354	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM354	30												
SM356	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM356	30												
SM358	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM358	30												
SM360	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM360	30												
SM362	- Misc. Cask Load/Unload													
RPT	RCT	5												

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN9

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
SM362	- Misc. Cask Load/Unload													
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM362	30								30				
SM364	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM364	30								30				
SM366	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM366	30								30				
SM368	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM368	30								30				
SM370	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM370	30								30				
SM372	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM372	30								30				
SM374	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM374	30								30				
SM376	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM376	30								30				
SM378	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM378	30								30				
SM380	- Misc. Cask Load/Unload													
RPT	RCT	5								5				
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM380	30								30				
SM382	- Misc. Cask Load/Unload													
RPT	RCT	5								5				

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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## RESOURCE LOADING REPORT

START DATE 01JAN99

## RESOURCE LOADING DETAIL BY ACTIVITY - PNL

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN99

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
SM382	- Misc. Cask Load/Unload													
TECH	HOT CELL TECHNICIAN	25								25				
TOTAL	SM382	30								30				
SM384	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM384	30									30			
SM386	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM386	30									30			
SM388	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM388	30									30			
SM390	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM390	30									30			
SM392	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM392	30									30			
SM394	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM394	30									30			
SM400	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM400	30									30			
SM402	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM402	30									30			
SM404	- Misc. Cask Load/Unload													
RPT	RCT	5									5			
TECH	HOT CELL TECHNICIAN	25									25			
TOTAL	SM404	30									30			
SM406	- Misc. Cask Load/Unload													
RPT	RCT	5									5			

PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 230  
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RESOURCE LOADING REPORT

START DATE 01JAN9

RESOURCE LOADING DETAIL BY ACTIVITY - PNL

TOTAL USAGE FOR MONTH

DATA DATE 01JAN9

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
SM406	- Misc. Cask Load/Unload													
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM406	30												
SM408	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM408	30												
SM410	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM410	30												
SM412	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM412	30												
SM414	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM414	30												
SM416	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM416	30												
SM418	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM418	30												
SM420	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM420	30												
SM422	- Misc. Cask Load/Unload													
RPT	RCT	5												
TECH	HOT CELL TECHNICIAN	25												
TOTAL	SM422	30												
REPORT TOTAL		41270	3113	3629	3942	3669	2389	2019	4864	6968	3643	3473	1249	2313

**RESOURCE  
LOADING  
DETAIL  
BY RESOURCE  
PNNL**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 206  
13:12

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

DATA DATE 01JAN95 P

## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
<b>CRAFT - CRAFT</b>														
AB	- AIR BALANCE													
BC2222	HEPA A-Frame Dos													
BC2224	HEPA A-Frame Dos	200	200											
BC2226	HEPA A-Frame Dos	200												
BC2228	HEPA A-Frame Dos	200												
BC2230	HEPA A-Frame Dos	200												
BC2238	HEPA A-Frame Dos	200												
PM260	A-Frames	40	40											
PM262	A-Frames	40												
PM264	A-Frames	40												
PM268	Annual HEPA filter P	40												
PM310	B-Cell A-Frame chang	200												
PM312	D-Cell A-Frame cable	200												
PM330	B-Cell A-Frame chang	200												
<b>SUBTOTAL AB</b>		1760	240	440	40									
EL	- ELECTRICIAN													
BC 50200	CRANE MAINTENANCE	600		60	540									
BC 90040	5th CRANE MAINTENANC	600		600										
BC 150050	Decontaminate 6-Ton	600												
BC50032	Remove Airlock Servi	250												
DC400415	D-Cell Crane Prev. M	400												
EC400415D6	E-Cell Par Prev. Mai	40												
EC400415B	E-Cell Crane Prev. M													
SC400415	S-Cell Par Prev. Mai	400												
SC400416	S-Cell Crane Prev. M	400												
SF400415P	SMP AL Crane Prev. M													
<b>SUBTOTAL EL</b>		3290		600	60	540								
MW	- MILLWRIGHT													
BC 28191	RM11POG Filter Chang													
BC 28193	RM11POG Filter Chang	80		80										
BC 28194	RM11POG Filter Chang	80												
BC 28195	RM11POG Filter Chang	80												
BC 50200	CRANE MAINTENANCE	1200		120	1080									
BC 90040	5th CRANE MAINTENANC	1200		1200										
BC 150050	Decontaminate 6-Ton	1200												
BC 600220	Remove Pipetrench Co													
BC 600230	SPRAY DOWN COVER BLO	250												
BC120	Manipulator Decon an													
BC122	Manipulator Decon an	45												
BC125	Manipulator Decon an	45												
BC126	Manipulator Decon an	45												
BC127	Manipulator Decon an	45												
BC128	Manipulator Decon an	45												
BC129	Manipulator Decon an													
BC130	Manipulator Decon an													
BC131	Manipulator Decon an	45	45											
BC132	Manipulator Decon an	45		45										
BC133	Manipulator Decon an	45			45									
BC134	Manipulator Decon an	45				45								
BC140	Manipulator Changeou													
BC142	Manipulator Changeou													
BC144	Manipulator Changeou													
BC146	Manipulator Changeou													
BC148	Manipulator Changeou													
BC149	Manipulator Decon an	45												
BC150	Manipulator Changeou	10	10											
BC151	Manipulator Decon an	45												
BC152	Manipulator Changeou	10	10											
BC153	Manipulator Decon an	45												
BC154	Manipulator Changeou	10		10										
BC156	Manipulator Changeou	10			10									
BC158	Manipulator Changeou	10				10								
BC160	Manipulator Changeou	10					10							

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DETAIL BY RESOURCE				TOTAL USAGE FOR MONTH											
ACT ID	DESC	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996	
CRAFT	- CRAFT														
MW	- MILLRIGHT														
BC162	Manipulator Changeou	10					10								
BC164	Manipulator Changeou	10					10								
BC166	Manipulator Changeou	10						10							
BC168	Manipulator Changeou	10							10						
BC170	Manipulator Changeou	10							10						
BC172	Manipulator Changeou	10							10						
BC174	Manipulator Changeou	10								10					
BC176	Manipulator Changeou	10									10				
BC178	Manipulator Changeou	10									10				
BC220	Manipulator Changeou	10										10			
BC222	Manipulator Changeou	10										10			
BC2222	HEPA A-Frame Dos														
BC2224	HEPA A-Frame Dos	400	400												
BC2226	HEPA A-Frame Dos	400						400							
BC2228	HEPA A-Frame Dos	400							400						
BC2230	HEPA A-Frame Dos	400										400			
BC2238	HEPA A-Frame Dos	400											400		
BC244	Manipulator Changeou	10											10		
BC246	Manipulator Changeou	10											10		
BC248	Manipulator Changeou	10											10		
SC600230	Spray Down Coverbloc	250								250					
DC400415	D-Cell Crane Prev. M	1200								1200					
EC400415D6	E-Cell Par Prev. Mai	80									80				
EC400415E	E-Cell Crane Prev. M														
PM294	REC Door PM														
PM296	REC Door PM	400								400					
PM310	B-Cell A-Frame chang	400					400								
PM312	D-Cell A-Frame cable	400					400								
PM330	B-Cell A-Frame chang	400										400			
SC400415	S-Cell Par Prev. Mai	1200								1200					
SC400416	S-Cell Crane Prev. M	1200									1200				
SF400415F	SMF AL Crane Prev. M														
SUBTOTAL MW		12360	465	1335	975	1145	395	455	1675	3185	1345	865	55	465	
TOTAL	CRAFT	17410	705	1935	1475	1725	395	455	2565	4385	1785	1265	55	665	
HCO	- HOT CELL OPERATIONS														
AS	- ASSIST														
BC 50200	CRANE MAINTENANCE	30				3	27								
BC 60031	WASTE CAMPAIGN # 6 (	25				25									
BC 90040	5th CRANE MAINTENANC	30			30										
BC 150050	Decontaminant 6-Ton	30										30			
BC 600220	Remove Pipetrench Co														
BC 600230	SPRAY DOWN COVER BLO	20					20								
BC2222	HEPA A-Frame Dos														
BC2224	HEPA A-Frame Dos	20	20												
BC2226	HEPA A-Frame Dos	20						20							
BC2228	HEPA A-Frame Dos	20							20						
BC2230	HEPA A-Frame Dos	20										20			
BC2238	HEPA A-Frame Dos	20										20			
BC50032	Remove Airlock Servi.	20						20							
BC555	LLW Loadout	25										25			
BC557	LLW Loadout	25										25			
BC559	LLW Loadout	25										25			
BC560	LLW Loadout	25										25			
BC561	LLW Loadout	25										25			
BC562	LLW Loadout	25										25			
BC563	LLW Loadout	25										25			
BC565	LLW Loadout	25										25			
BC567	LLW Loadout	25										25			
BC569	LLW Loadout	25										25			
BC571	LLW Loadout	25										25			
BC600230	Spray Down Coverbloc	20										20			
BCD311	Loadout 2nd G.C. REF														

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## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

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ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
HCO	- HOT CELL OPERATIONS													
AS	- ASSIST													
BCD313	Loadout 3rd G.C. REF	25	25											
BCD323	SEG Casak Shipment /	25												
BCD327	SEG Cask Shipment /L	25												
BCD405	Loadout of Melter Gl	25	25											
BCNA6030	Neutron Analyzer Ins													
BCPX4711	Loadt of Mltr Feed/L	25	25											
BCPX4716	1st Loadout of High	25	25											
BCPX4721	1st Loadout of Dispse	25												
BCPX4726	Loadout of G.C. Refr													
BCPX4736	2nd Loadout of Dispse	25	25											
BCPX4741	1st Loadout of Refra	25	13	13										
BCPX4776	1st Loadout of Glass													
BCPX4781	2nd Loadout of Glass													
BCPX7701	3rd Loadout of HEPA													
BCPX7706	1st Loadout of HEPA													
BCPX7711	2nd Loadout of HEPA													
BCPX7716	4th Loadout of HEPA													
BCSP1510	Dry Run with Cask													
BCSP2000	Shipment #1 Load and	25												
BCSP2010	Shipment #1 Prep, Lo	25												
BCSP2020	Shipment #2 Load, De	25												
BCSP2025	Shipment #2 Prep, Lo	25												
BCSP2035	Shipment #3 Load, De	25												
BCSP2040	Shipment #3 Prep, Lo	25												
BCSP2050	Shipment #4 Load, De	25												
BCSP2055	Shipment #4 Prep, Lo	25												
BCSP2065	Shipment #5 Load, De	25												
BCSP2070	Shipment #5 Prep, Lo	25												
BCSP2080	Shipment #6 Load, De	25												
BCSP2085	Shipment #6 Prep, Lo	25												
BCSP2095	Shipment #7 Load, De	25												
BCSP2100	Shipment #7 Prep, Lo	25												
DC400415	D-Cell Crane Prev. M	225												
HL 20	Install In Cell Equi	20												
HL 33	Install Vacuum Tank	20	20											
PM294	REC Door PM													
PM296	REC Door PM	30												
PM310	B-Cell A-Frame chang	20												
PM312	D-Cell A-Frame cable	20												
PM330	B-Cell A-Frame chang	20												
SC400415	S-Cell Par Prev. Mai	10												
SC400416	S-Cell Crane Prev. M	10												
<b>SUBTOTAL AS</b>		<b>1500</b>	<b>153</b>	<b>93</b>	<b>143</b>	<b>106</b>	<b>136</b>	<b>97</b>	<b>348</b>	<b>80</b>	<b>48</b>	<b>128</b>	<b>75</b>	<b>95</b>
ENT	- ENTRY PERSON													
BC 60031	WASTE CAMPAIGN # 6 (	150												
BC555	LLW Loadout	150												
BC557	LLW Loadout	150												
BC559	LLW Loadout	150												
BC560	LLW Loadout	150												
BC561	LLW Loadout	150												
BC562	LLW Loadout	150												
BC563	LLW Loadout	150												
BC565	LLW Loadout	150												
BC567	LLW Loadout	150												
BC569	LLW Loadout	150												
BC571	LLW Loadout	150												
BCD311	Loadout 2nd G.C. REF													
BCD313	Loadout 3rd G.C. REF	150	150											
BCD323	SEG Casak Shipment /	150												
BCD327	SEG Cask Shipment /L	150												
BCD405	Loadout of Melter Gl	150	150											
BCNA6030	Neutron Analyzer Ins													
BCPX4711	Loadt of Mltr Feed/L	150	150											
BCPX4716	1st Loadout of High	150	150											
BCPX4721	1st Loadout of Dispse	150												

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			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996

HCO - HOT CELL OPERATIONS

## ENT - ENTRY PERSON

BCPX4726	Loadout of G.C. Refr													
BCPX4736	2nd Loadout of Disp	150		150										
BCPX4741	1st Loadout of Refra	150	75	75										
BCPX4776	1st Loadout of Glass													
BCPX4781	2nd Loadout of Glass													
BCPX7701	3rd Loadout of HEPA													
BCPX7706	1st Loadout of HEPA													
BCPX7711	2nd Loadout of HEPA													
BCPX7716	4th Loadout of HEPA													
BCSP1510	Dry Run with Cask													
BCSP2000	Shipment #1 Load and	150		150										
BCSP2010	Shipment #1 Prep, Lo	150		150										
BCSP2020	Shipment #2 Load, De	150			150									
BCSP2025	Shipment #2 Prep, Lo	150			150									
BCSP2035	Shipment #3 Load, De	150				150								
BCSP2040	Shipment #3 Prep, Lo	150				150								
BCSP2050	Shipment #4 Load, De	150				150								
BCSP2055	Shipment #4 Prep, Lo	150				150								
BCSP2065	Shipment #5 Load, De	150					150							
BCSP2070	Shipment #5 Prep, Lo	150					150							
BCSP2080	Shipment #6 Load, De	150						100	50					
BCSP2085	Shipment #6 Prep, Lo	150							150					
BCSP2095	Shipment #7 Load, De	150							150					
BCSP2100	Shipment #7 Prep, Lo	150							150					
HL 20	Install In Cell Equi	100					20	80						
HL 33	Install Vacuum Tank	100	100											
SUBTOTAL ENT		5450	775	375	600	470	680	400	500		225	525	450	450

## LA - LABORER

BC120	Manipulator Decon an													
BC122	Manipulator Decon an	100					100							
BC125	Manipulator Decon an	100									100			
BC126	Manipulator Decon an	100						100						
BC127	Manipulator Decon an	100							100					
BC128	Manipulator Decon an	100								100				
BC129	Manipulator Decon an													
BC130	Manipulator Decon an													
BC131	Manipulator Decon an	100	100											
BC132	Manipulator Decon an	100		100										
BC133	Manipulator Decon an	100			100									
BC134	Manipulator Decon an	100				100								
BC149	Manipulator Decon an	100								100				
BC151	Manipulator Decon an	100									100			
BC153	Manipulator Decon an	100										100		
SUBTOTAL LA		1200	100	100	100	100	100	100	100	100	100	100	100	100

## TECH - HOT CELL TECHNICIAN

BC 28191	RM11POG Filter Chang												
BC 28193	RM11POG Filter Chang	10		10									
BC 28194	RM11POG Filter Chang	10					10						
BC 28195	RM11POG Filter Chang	10							10				
BC140	Manipulator Changeou												
BC142	Manipulator Changeou												
BC144	Manipulator Changeou												
BC146	Manipulator Changeou												
BC148	Manipulator Changeou												
BC150	Manipulator Changeou	20	20										
BC152	Manipulator Changeou	20	20										
BC154	Manipulator Changeou	20		20									
BC156	Manipulator Changeou	20			20								
BC158	Manipulator Changeou	20				20							
BC160	Manipulator Changeou	20					20						
BC162	Manipulator Changeou	20						20					
BC164	Manipulator Changeou	20							20				

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			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
HCO	- HOT CELL OPERATIONS													
TECH	- HOT CELL TECHNICIAN													
BC166	Manipulator Changeou	20								20				
BC168	Manipulator Changeou	20								20				
BC170	Manipulator Changeou	20								20				
BC172	Manipulator Changeou	20								20				
BC174	Manipulator Changeou	20								20				
BC176	Manipulator Changeou	20									20			
BC178	Manipulator Changeou	20									20			
BC220	Manipulator Changeou	20									20			
BC222	Manipulator Changeou	20									20			
BC2222	HEPA A-Frame Dos													
BC2224	HEPA A-Frame Dos	300	300											
BC2226	HEPA A-Frame Dos	300								300				
BC2228	HEPA A-Frame Dos	300								300				
BC2230	HEPA A-Frame Dos	300												300
BC2238	HEPA A-Frame Dos	300												
BC242	Manipulator Changeou	10									300			
BC244	Manipulator Changeou	20									10			
BC246	Manipulator Changeou	20												20
BC248	Manipulator Changeou	20												20
BC6666	Moving Waste for NDA													
BC6667	Moving Waste for NDA													
BC6668	Moving Waste for NDA													
BC6669	Moving Waste for NDA	100	100											
BC6670	Moving Waste for NDA	100		100										
BC6671	Moving Waste for NDA	100			100									
BC6672	Moving Waste for NDA	100				100								
BC6673	Moving Waste for NDA	100					100							
BC6674	Moving Waste for NDA	100						100						
BC6675	Moving Waste for NDA	100							100					
BC6676	Moving Waste for NDA	100								100				
BC6677	Moving Waste for NDA	100									100			
BC6678	Moving Waste for NDA	100										100		
BC6679	Moving Waste for NDA	100											100	
BC6680	Moving Waste for NDA	100												100
EC400415D6	E-Cell Par Prev. Mai	60										60		
EC400415E	E-Cell Crane Prev. M													
HL	54 Pull Sample 104/105													
HL	55 Pull Sample 107													
HL	56 Transfer Samples to													
HL555	Sample Room Prep													
HL5560	Sample Room Prep													
PM260	A-Frames	15	15											
PM262	A-Frames	15												
PM264	A-Frames	15												
PM268	Annual HEPA filter P	15			15									
PM310	B-Cell A-Frame chang	300			300									
PM312	D-Cell A-Frame cable	300			300									
PM330	B-Cell A-Frame chang	300												300
PN	5 Receive 1 MFA-1 & 3													
PN	6 Reload 13 pins in SM													
PN	7 Ship 1 MFA-1 & 3MFA-													
PN	18 Ship Consolidated SB	30												
PN	20 Receive 29 Fuel Pins	30												
PN	21 Transfer 9 ACO-3 Pin	30												
PN	23 Store C-1 Shipment a	30												
PN	24 Ship C-1 Shipment to	30												
PN	25 Ship MFA-1/MFA-2/ACO	30												
PN	26 Ship PNC Waste (SERF	30												
PN	27 Receive MFA-2 DS at	30												
PN	114 Xfer Pkgd Fuel Pins	30												
PN	115 Transfer Packaged Fu	30												
PN	137 Ship Capsules to 324													
SC400415	S-Cell Par Prev. Mai	800										800		
SC400416	S-Cell Crane Prev. M	800											800	
SF107	Waste Disposal													
SF108	Waste Disposal	20	20											
SF109	Waste Disposal	20		20										
SF110	Waste Disposal	20			20									

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			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996		
<b>HCO - HOT CELL OPERATIONS</b>																
<b>TECH - HOT CELL TECHNICIAN</b>																
SF111	Waste Disposal	20			20											
SF112	Waste Disposal	20				20										
SF113	Waste Disposal	20					20									
SF114	Waste Disposal	20						20								
SF115	Waste Disposal	20							20							
SF116	Waste Disposal	20								20						
SF400415P	SMF AL Crane Prev. M															
SM140	Manipulator Changeou															
SM142	Manipulator Changeou															
SM144	Manipulator Changeou															
SM146	Manipulator Changeou															
SM148	Manipulator Changeou															
SM150	Manipulator Changeou	10	10													
SM152	Manipulator Changeou	10	10													
SM154	Manipulator Changeou	10		10												
SM156	Manipulator Changeou	10			10											
SM158	Manipulator Changeou	10			10											
SM160	Manipulator Changeou	10				10										
SM162	Manipulator Changeou	10					10									
SM164	Manipulator Changeou	10						10								
SM166	Manipulator Changeou	10							10							
SM168	Manipulator Changeou	10								10						
SM170	Manipulator Changeou	10									10					
SM172	Manipulator Changeou	10										10				
SM174	Manipulator Changeou	10											10			
SM176	Manipulator Changeou	10												10		
SM200	Manipulator Changeou	10												10		
SM244	Manipulator Changeou	10												10		
SM246	Manipulator Changeou	10												10		
SM248	Manipulator Changeou	10												10		
SM300	Misc. Cask Load/Unlo															
SM302	Misc. Cask Load/Unlo															
SM304	Misc. Cask Load/Unlo															
SM306	Misc. Cask Load/Unlo															
SM308	Misc. Cask Load/Unlo															
SM310	Misc. Cask Load/Unlo															
SM312	Misc. Cask Load/Unlo															
SM314	Misc. Cask Load/Unlo															
SM316	Misc. Cask Load/Unlo															
SM318	Misc. Cask Load/Unlo															
SM320	Misc. Cask Load/Unlo															
SM322	Misc. Cask Load/Unlo															
SM324	Misc. Cask Load/Unlo	25	25													
SM326	Misc. Cask Load/Unlo	25	25													
SM328	Misc. Cask Load/Unlo	25	25													
SM330	Misc. Cask Load/Unlo	25	25													
SM332	Misc. Cask Load/Unlo	25	25													
SM334	Misc. Cask Load/Unlo	25		25												
SM336	Misc. Cask Load/Unlo	25			25											
SM338	Misc. Cask Load/Unlo	25				25										
SM340	Misc. Cask Load/Unlo	25					25									
SM342	Misc. Cask Load/Unlo	25						25								
SM344	Misc. Cask Load/Unlo	25							25							
SM346	Misc. Cask Load/Unlo	25								25						
SM348	Misc. Cask Load/Unlo	25									25					
SM350	Misc. Cask Load/Unlo	25										25				
SM352	Misc. Cask Load/Unlo	25											25			
SM354	Misc. Cask Load/Unlo	25												25		
SM356	Misc. Cask Load/Unlo	25												25		
SM358	Misc. Cask Load/Unlo	25												25		
SM360	Misc. Cask Load/Unlo	25												25		
SM362	Misc. Cask Load/Unlo	25												25		
SM364	Misc. Cask Load/Unlo	25												25		
SM366	Misc. Cask Load/Unlo	25												25		
SM368	Misc. Cask Load/Unlo	25												25		
SM370	Misc. Cask Load/Unlo	25												25		
SM372	Misc. Cask Load/Unlo	25												25		
SM374	Misc. Cask Load/Unlo	25												25		

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			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996		
<b>HCO - HOT CELL OPERATIONS</b>																
<b>TECH - HOT CELL TECHNICIAN</b>																
SM376	Misc. Cask Load/Unlo	25														
SM378	Misc. Cask Load/Unlo	25														
SM380	Misc. Cask Load/Unlo	25														
SM382	Misc. Cask Load/Unlo	25														
SM384	Misc. Cask Load/Unlo	25														
SM386	Misc. Cask Load/Unlo	25														
SM388	Misc. Cask Load/Unlo	25														
SM390	Misc. Cask Load/Unlo	25														
SM392	Misc. Cask Load/Unlo	25														
SM394	Misc. Cask Load/Unlo	25														
SM400	Misc. Cask Load/Unlo	25														
SM402	Misc. Cask Load/Unlo	25														
SM404	Misc. Cask Load/Unlo	25														
SM406	Misc. Cask Load/Unlo	25														
SM408	Misc. Cask Load/Unlo	25														
SM410	Misc. Cask Load/Unlo	25														
SM412	Misc. Cask Load/Unlo	25														
SM414	Misc. Cask Load/Unlo	25														
SM416	Misc. Cask Load/Unlo	25														
SM418	Misc. Cask Load/Unlo	25														
SM420	Misc. Cask Load/Unlo	25														
SM422	Misc. Cask Load/Unlo	25														
<b>SUBTOTAL TECH</b>		7620	620	260	875	334	341	319	659	1403	1160	860	230	560		
<b>UND - UNDRESSER</b>																
BC 50200	CRANE MAINTENANCE	250														
BC 60031	WASTE CAMPAIGN # 6 (	30														
BC 90040	5th CRANE MAINTENANC	250			250											
BC 150050	Decontaminate 6-Ton	250														
BC 600220	Remove Pipetrench Co															
BC 600230	SPRAY DOWN COVER ELO	50														
BC50032	Remove Airlock Servi	50														
BC555	LLW Loadout	30														
BC557	LLW Loadout	30														
BC559	LLW Loadout	30														
BC560	LLW Loadout	30														
BC561	LLW Loadout	30														
BC562	LLW Loadout	30														
BC563	LLW Loadout	30														
BC565	LLW Loadout	30														
BC567	LLW Loadout	30														
BC569	LLW Loadout	30														
BC571	LLW Loadout	30														
BC600230	Spray Down Coverbloc	50														
BCD311	Loadout 2nd G.C. REF															
BCD313	Loadout 3rd G.C. REF	30	30													
BCD323	SEG Casak Shipment /	30														
BCD327	SEG Cask Shipment /L	30														
BCD405	Loadout of Melter Gl	30	30													
BCNA6030	Neutron Analyzer Ins															
BCPX4711	Loadt of Mltr Feed/L	30	30													
BCPX4716	1st Loadout of High	30	30													
BCPX4721	1st Loadout of Dispe	30			30											
BCPX4726	Loadout of G.C. Refr															
BCPX4736	2nd Loadout of Dispe	30			30											
BCPX4741	1st Loadout of Refra	30	15	15												
BCPX4776	1st Loadout of Glass															
BCPX4781	2nd Loadout of Glass															
BCPX7701	3rd Loadout of HEPA															
BCPX7706	1st Loadout of HEPA															
BCPX7711	2nd Loadout of HEPA															
BCPX7716	4th Loadout of HEPA															
BCSP1510	Dry Run with Cask															
BCSP2000	Shipment #1 Load and	30			30											
BCSP2010	Shipment #1 Prep, Lo	30			30											
BCSP2020	Shipment #2 Load, De	30														

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ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
HCO	- HOT CELL OPERATIONS													
UND	- UNDRESSER													
BCSP2025	Shipment #2 Prep, Lo	30					30							
BCSP2035	Shipment #3 Load, De	30					30							
BCSP2040	Shipment #3 Prep, Lo	30					30							
BCSP2050	Shipment #4 Load, De	30					30							
BCSP2055	Shipment #4 Prep, Lo	30					30							
BCSP2065	Shipment #5 Load, De	30					30							
BCSP2070	Shipment #5 Prep, Lo	30					30							
BCSP2080	Shipment #6 Load, De	30					20		10					
BCSP2085	Shipment #6 Prep, Lo	30					30							
BCSP2095	Shipment #7 Load, De	30					30							
BCSP2100	Shipment #7 Prep, Lo	30					30							
HL 20	Install In Cell Equi	30					6	24						
HL 33	Install Vacuum Tank	30	30											
PM294	REC Door PM													
PM296	REC Door PM	75					75							
SC400415	S-Cell Par Prev. Mai	60								60				
SC400416	S-Cell Crane Prev. M	60								60				
SUBTOTAL UND		2205	165	325	145	321	194	155	150	360	105	105	90	90
TOTAL	HCO	17975	1813	1153	1863	1331	1451	1070	1757	1943	1638	1718	945	1295
RPT	- RCT													
RPT	- RCT													
BC 28191	RM11POG Filter Chang													
BC 28193	RM11POG Filter Chang	20	20											
BC 28194	RM11POG Filter Chang	20					20							
BC 28195	RM11POG Filter Chang	20												
BC 50200	CRANE MAINTENANCE	300			30	270								20
BC 60031	WASTE CAMPAIGN # 6 (	75		75										
BC 90040	5th CRANE MAINTENANC	300	300											
BC 150050	Decontaminate 6-Ton	300								300				
BC 600220	Remove Pipetrench Co													
BC 600230	SPRAY DOWN COVER BLO	100					100							
BC140	Manipulator Changeou													
BC142	Manipulator Changeou													
BC144	Manipulator Changeou													
BC146	Manipulator Changeou													
BC148	Manipulator Changeou													
BC150	Manipulator Changeou	4	4											
BC152	Manipulator Changeou	4	4											
BC154	Manipulator Changeou	4		4										
BC156	Manipulator Changeou	4		4										
BC158	Manipulator Changeou	4			4									
BC160	Manipulator Changeou	4				4								
BC162	Manipulator Changeou	4					4							
BC164	Manipulator Changeou	4					4							
BC166	Manipulator Changeou	4						4						
BC168	Manipulator Changeou	4							4					
BC170	Manipulator Changeou	4							4					
BC172	Manipulator Changeou	4							4					
BC174	Manipulator Changeou	4							4					
BC176	Manipulator Changeou	4								4				
BC178	Manipulator Changeou	4								4				
BC220	Manipulator Changeou	4									4			
BC222	Manipulator Changeou	4										4		
BC2222	HEPA A-Frame Dos													
BC2224	HEPA A-Frame Dos	100	100											
BC2226	HEPA A-Frame Dos	100						100						
BC2228	HEPA A-Frame Dos	100							100					
BC2230	HEPA A-Frame Dos	100									100			
BC2238	HEPA A-Frame Dos	100										100		
BC244	Manipulator Changeou	4										4		
BC246	Manipulator Changeou	4										4		
BC248	Manipulator Changeou	4										4		

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 206  
13:12

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 P

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
RPT	- RCT													
RPT	- RCT													
BC50032	Remove Airlock Servi	100												
BC555	LLW Loadout	75												75
BC557	LLW Loadout	75												75
BC559	LLW Loadout	75												75
BC560	LLW Loadout	75												75
BC561	LLW Loadout	75												75
BC562	LLW Loadout	75												75
BC563	LLW Loadout	75												75
BC565	LLW Loadout	75												75
BC567	LLW Loadout	75												75
BC569	LLW Loadout	75												75
BC571	LLW Loadout	75												75
BC600230	Spray Down Coverbloc	100												100
BCD311	Loadout 2nd G.C. REF													
BCD313	Loadout 3rd G.C. REF	75	75											
BCD323	SEG Casak Shipment /	75												
BCD327	SEG Cash Shipment /L	75												75
BCD405	Loadout of Melter-G1	75	75											
BCNA6030	Neutron Analyzer Ins													
BCPX4711	Load of Mltz Feed/L	75	75											
BCPX4716	1st Loadout of High	75	75											
BCPX4721	1st Loadout of Dispe	75												75
BCPX4726	Loadout of G.C. Refr													
BCPX4736	2nd Loadout of Dispe	75												75
BCPX4741	1st Loadout of Refra	75	38	38										
BCPX4776	1st Loadout of Glass													
BCPX4781	2nd Loadout of Glass													
BCPX7701	3rd Loadout of HEPA													
BCPX7706	1st Loadout of HEPA													
BCPX7711	2nd Loadout of HEPA													
BCPX7716	4th Loadout of HEPA													
BCSP1510	Dry Run with Cask													
BCSP2000	Shipment #1 Load and	75												
BCSP2010	Shipment #1 Prep, Lo	75												75
BCSP2020	Shipment #2 Load, De	75												75
BCSP2025	Shipment #2 Prep, Lo	75												75
BCSP2035	Shipment #3 Load, De	75												75
BCSP2040	Shipment #3 Prep, Lo	75												75
BCSP2050	Shipment #4 Load, De	75												75
BCSP2055	Shipment #4 Prep, Lo	75												75
BCSP2065	Shipment #5 Load, De	75												75
BCSP2070	Shipment #5 Prep, Lo	75												75
BCSP2080	Shipment #6 Load, De	75												50
BCSP2085	Shipment #6 Prep, Lo	75												75
BCSP2095	Shipment #7 Load, De	75												75
BCSP2100	Shipment #7 Prep, Lo	75												75
EC400415D6	E-Cell Par Prev. Mai	5												5
EC400415E	E-Cell Crane Prev. M													
HL	20 Install In Cell Equi	75												
HL	33 Install Vacuum Tank	75	75											
HL	54 Pull Sample 104/105													
HL	55 Pull Sample 107													
HL555	Sample Room Prep													
HL5560	Sample Room Prep													
PM260	A-Frames	40	40											
PM262	A-Frames	40												40
PM264	A-Frames	40												
PM268	Annual HEPA filter P	40												
PM294	REC Door PM													
PM296	REC Door PM	225												225
PM310	B-Cell A-Frame chang	100												
PM312	D-Cell A-Frame cable	100												
PM330	B-Cell A-Frame chang	100												
PN	5 Receive 1 MFA-1 & 3													
PN	6 Reload 13 pins in SM													
PN	7 Ship 1 MFA-1 & 3MFA-													
PN	18 Ship Consolidated SE	15												15
PN	20 Receive 29 Fuel Pins	15												15

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 206  
13:12

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

DATA DATE 01JAN95 P

## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
RPT	- RCT													
RPT	- RCT													
PN	21 Transfer 9 ACO-3 Pin	15					10	6						
PN	23 Store C-1 Shipment a	15					5	4	5	1				
PN	24 Ship C-1 Shipment to	15								15				
PN	25 Ship MFA-1/MFA-2/ACO	15								15				
PN	26 Ship PNC Waste (SERF	15								15				
PN	27 Receive MFA-2 DS at	15									15			
PN	114 Xfer Pkgd Fuel Pins	15					15							
PN	115 Transfer Packaged Fu	15						15						
PN	137 Ship Capsules to 324	15												
SC400415	S-Cell Par Prev. Mai	50								50				
SC400416	S-Cell Crane Prev. M	50								50				
SF107	Waste Disposal													
SF108	Waste Disposal	10	10											
SF109	Waste Disposal	10		10										
SF110	Waste Disposal	10			10									
SF111	Waste Disposal	10				10								
SF112	Waste Disposal	10					10							
SF113	Waste Disposal	10						10						
SF114	Waste Disposal	10							10					
SF115	Waste Disposal	10								10				
SF116	Waste Disposal	10									10			
SMF400415F	SMF AL Crane Prev. M													
SM300	Misc. Cask Load/Unlo													
SM302	Misc. Cask Load/Unlo													
SM304	Misc. Cask Load/Unlo													
SM306	Misc. Cask Load/Unlo													
SM308	Misc. Cask Load/Unlo													
SM310	Misc. Cask Load/Unlo													
SM312	Misc. Cask Load/Unlo													
SM314	Misc. Cask Load/Unlo													
SM316	Misc. Cask Load/Unlo													
SM318	Misc. Cask Load/Unlo													
SM320	Misc. Cask Load/Unlo													
SM322	Misc. Cask Load/Unlo													
SM324	Misc. Cask Load/Unlo	5	5											
SM326	Misc. Cask Load/Unlo	5	5											
SM328	Misc. Cask Load/Unlo	5	5											
SM330	Misc. Cask Load/Unlo	5	5											
SM332	Misc. Cask Load/Unlo	5	5											
SM334	Misc. Cask Load/Unlo	5	5				5							
SM336	Misc. Cask Load/Unlo	5	5					5						
SM338	Misc. Cask Load/Unlo	5	5						5					
SM340	Misc. Cask Load/Unlo	5	5							5				
SM342	Misc. Cask Load/Unlo	5	5								5			
SM344	Misc. Cask Load/Unlo	5	5									5		
SM346	Misc. Cask Load/Unlo	5	5										5	
SM348	Misc. Cask Load/Unlo	5	5											5
SM350	Misc. Cask Load/Unlo	5	5											
SM352	Misc. Cask Load/Unlo	5	5											
SM354	Misc. Cask Load/Unlo	5	5											
SM356	Misc. Cask Load/Unlo	5	5											
SM358	Misc. Cask Load/Unlo	5	5											
SM360	Misc. Cask Load/Unlo	5	5											
SM362	Misc. Cask Load/Unlo	5	5											
SM364	Misc. Cask Load/Unlo	5	5											
SM366	Misc. Cask Load/Unlo	5	5											
SM368	Misc. Cask Load/Unlo	5	5											
SM370	Misc. Cask Load/Unlo	5	5											
SM372	Misc. Cask Load/Unlo	5	5											
SM374	Misc. Cask Load/Unlo	5	5											
SM376	Misc. Cask Load/Unlo	5	5											
SM378	Misc. Cask Load/Unlo	5	5											
SM380	Misc. Cask Load/Unlo	5	5											
SM382	Misc. Cask Load/Unlo	5	5											
SM384	Misc. Cask Load/Unlo	5	5											
SM386	Misc. Cask Load/Unlo	5	5											
SM388	Misc. Cask Load/Unlo	5	5											
SM390	Misc. Cask Load/Unlo	5	5											

REPORT DATE 10JAN96 RUN NO. 206  
13:12

## PRIMAVERA PROJECT PLANNER

## RESOURCE LOADING REPORT

START DATE 01JAN95 P

## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 P

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
RPT	- RCT													
RPT	- RCT													
SM392	Misc. Cask Load/Unlo	5												
SM394	Misc. Cask Load/Unlo	5												
SM400	Misc. Cask Load/Unlo	5												
SM402	Misc. Cask Load/Unlo	5												
SM404	Misc. Cask Load/Unlo	5												
SM406	Misc. Cask Load/Unlo	5												
SM408	Misc. Cask Load/Unlo	5												
SM410	Misc. Cask Load/Unlo	5												
SM412	Misc. Cask Load/Unlo	5												
SM414	Misc. Cask Load/Unlo	5												
SM416	Misc. Cask Load/Unlo	5												
SM418	Misc. Cask Load/Unlo	5												
SM420	Misc. Cask Load/Unlo	5												
SM422	Misc. Cask Load/Unlo	5												
SUBTOTAL RPT		5885	596	542	604	613	543	493	542	640	221	491	249	353
TOTAL	RPT	5885	596	542	604	613	543	493	542	640	221	491	249	353
REPORT TOTAL		41270	3113	3629	3942	3669	2389	2019	4864	6968	3643	3473	1249	2313

**RESOURCE  
LOADING  
DETAIL  
BY RESOURCE  
KEH**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 205  
13:09

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

## DETAIL BY RESOURCE

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 P

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
KEH	- KAISER													
AS	- ASSIST													
BC 150055	Remove 6-Ton Crane	30									30			
BC 150060	Install 10-Ton Capac	30									15	15		
BC14120	INSTALL 3-1/2 TON CR	30	30											
BCWC8015	Core Drill Airlock W													
BCWC8020	Install Compactor in													
	SUBTOTAL AS		90	30							45	15		
EL	- ELECTRICIAN													
BC 150055	Remove 6-Ton Crane	300									300			
BC 150060	Install 10-Ton Capac	300									150	150		
BC14120	INSTALL 3-1/2 TON CR	300	300											
BCWC8020	Install Compactor in													
	SUBTOTAL EL		900	300							450	150		
IR	- IRONWORKER													
BC 150055	Remove 6-Ton Crane	600									600			
BC 150060	Install 10-Ton Capac	600									300	300		
BC14120	INSTALL 3-1/2 TON CR	600	600											
	SUBTOTAL IR		1800	600							900	300		
LA	- LABORER													
BC 150055	Remove 6-Ton Crane	300									300			
BC 150060	Install 10-Ton Capac	300									150	150		
BC14120	INSTALL 3-1/2 TON CR	300	300											
BC180	Waste Compaction/Dec													
BC182	Waste Compaction/Dec													
BC184	Waste Compaction/Dec													
BC186	Waste Compaction/Dec	10	10											
BC188	Waste Compaction/Dec	10		10										
BC190	Waste Compaction/Dec	10			10									
BC192	Waste Compaction/Dec	10				10								
BC194	Waste Compaction/Dec	10					10							
BC196	Waste Compaction/Dec	10						10						
BC198	Waste Compaction/Dec	10							10					
BC200	Waste Compaction/Dec	10								10				
BC202	Waste Compaction/Dec	10									10			
BC298	Waste Compaction/Dec	10										10		
BC300	Waste Compaction/Dec	10											10	
BC302	Waste Compaction/Dec	10												10
BCWC8015	Core Drill Airlock W													
BCWC8020	Install Compactor in													
	SUBTOTAL LA		1020	310	10	10	10	10	10	10	460	160	10	10
PF	- PIPEFITTER													
BCWC8015	Core Drill Airlock W													
	SUBTOTAL PF													
UND	- UNDRESSER													
BC 150055	Remove 6-Ton Crane	100									100			
BC 150060	Install 10-Ton Capac	100									50	50		
BC14120	INSTALL 3-1/2 TON CR	100	100											
BCWC8015	Core Drill Airlock W													
BCWC8020	Install Compactor in													
	SUBTOTAL UND		300	100							150	50		

PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 205      RESOURCE LOADING REPORT      START DATE 01JAN95 F  
13:09

DETAIL BY RESOURCE      TOTAL USAGE FOR MONTH      DATA DATE 01JAN95 P

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
KEH	- KAISER													
WE	- WELDER													
BCWC8015 Core Drill Airlock W														
SUBTOTAL WE														
TOTAL	KEH	4110	1340	10	10	10	10	10	10	2005	675	10	10	10
REPORT TOTAL		4110	1340	10	10	10	10	10	10	2005	675	10	10	10

## PRIMAVERA PROJECT PLANNER

REPORT DATE 08JAN96 RUN NO. 200  
15:13

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

DATA DATE 01JAN95 P

## RESOURCE LOADING - TOTAL MONTHLY SUMMARY

## TOTAL USAGE FOR MONTH

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
<b>CRAFT - CRAFT</b>														
AB	AIR BALANCE	1760	240		440	40			240	200		400		200
EL	ELECTRICIAN	3290		600	60	540			650	1000	440			
MW	MILLWRIGHT	12360	465	1335	975	1145	395	455	1675	3185	1345	865	55	465
<b>TOTAL</b>	<b>CRAFT</b>	<b>17410</b>	<b>705</b>	<b>1935</b>	<b>1475</b>	<b>1725</b>	<b>395</b>	<b>455</b>	<b>2565</b>	<b>4385</b>	<b>1785</b>	<b>1265</b>	<b>55</b>	<b>665</b>
<b>HCO - HOT CELL OPERATIONS</b>														
AS	ASSIST	1500	153	93	143	106	136	97	348	80	48	128	75	95
ENT	ENTRY PERSON	5450	775	375	600	470	680	400	500		225	525	450	450
LA	LABORER	1200	100	100	100	100	100	100	100	100	100	100	100	100
TECH	HOT CELL TECHNICIAN	7620	620	260	875	334	341	319	659	1403	1160	860	230	560
UND	UNDRESSER	2205	165	325	145	321	194	155	150	360	105	105	90	90
<b>TOTAL</b>	<b>HCO</b>	<b>17975</b>	<b>1813</b>	<b>1153</b>	<b>1863</b>	<b>1331</b>	<b>1451</b>	<b>1070</b>	<b>1757</b>	<b>1943</b>	<b>1638</b>	<b>1718</b>	<b>945</b>	<b>1295</b>
<b>KEH - KAISER</b>														
AS	ASSIST	90	30							45	15			
EL	ELECTRICIAN	900	300							450	150			
IR	IRONWORKER	1800	600							900	300			
LA	LABORER	1020	310	10	10	10	10	10	10	460	160	10	10	10
PF	PIPEFITTER													
UND	UNDRESSER	300	100							150	50			
WE	WELDER													
<b>TOTAL</b>	<b>KEH</b>	<b>4110</b>	<b>1340</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>2005</b>	<b>675</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>RPT - RCT</b>														
RPT	RCT	5885	596	542	604	613	543	493	542	640	221	491	249	353
<b>TOTAL</b>	<b>RPT</b>	<b>5885</b>	<b>596</b>	<b>542</b>	<b>604</b>	<b>613</b>	<b>543</b>	<b>493</b>	<b>542</b>	<b>640</b>	<b>221</b>	<b>491</b>	<b>249</b>	<b>353</b>
<b>REPORT TOTAL</b>		<b>45380</b>	<b>4453</b>	<b>3639</b>	<b>3952</b>	<b>3679</b>	<b>2399</b>	<b>2029</b>	<b>4874</b>	<b>8973</b>	<b>4318</b>	<b>3483</b>	<b>1259</b>	<b>2323</b>

PRIMAVERA PROJECT PLANNER														
REPORT DATE 10JAN96 RUN NO. 221 14:54				RESOURCE LOADING REPORT								START DATE 01JAN95 F DATA DATE 01JAN95 P		
SUMMARY BY GROUP, BY MONTH, PNL ONLY				TOTAL USAGE FOR MONTH										
ACT ID	DESC	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
CRAFT	- CRAFT													
AB	AIR BALANCE	1760	240		440	40			240	200		400		200
EL	ELECTRICIAN	3290		600	60	540			650	1000	440			
MW	MILLWRIGHT	12360	465	1335	975	1145	395	455	1675	3185	1345	865	55	465
TOTAL	CRAFT	17410	705	1935	1475	1725	395	455	2565	4385	1785	1265	55	665
HCO	- HOT CELL OPERATIONS													
AS	ASSIST	1500	153	93	143	106	136	97	348	80	48	128	75	95
ENT	ENTRY PERSON	5450	775	375	600	470	680	400	500		225	525	450	450
LA	LABORER	1200	100	100	100	100	100	100	100	100	100	100	100	100
TECH	HOT CELL TECHNICIAN	7620	620	260	875	334	341	319	659	1403	1160	860	230	560
UND	UNDRESSER	2205	165	325	145	321	194	155	150	360	105	105	90	90
TOTAL	HCO	17975	1813	1153	1863	1331	1451	1070	1757	1943	1638	1718	945	1295
RPT	- RCT													
RPT	RCT	5885	596	542	604	613	543	493	542	640	221	491	249	353
TOTAL	RPT	5885	596	542	604	613	543	493	542	640	221	491	249	353
REPORT TOTAL		41270	3113	3629	3942	3669	2389	2019	4864	6968	3643	3473	1249	2313

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 223  
14:58

## RESOURCE LOADING REPORT

START DATE 01JAN95 F

SUMMARY BY GROUP, BY MONTH, KEH ONLY

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 P

ACT ID	DESC	TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
KEH	- KAISER													
AS	ASSIST		90	30							45	15		
EL	ELECTRICIAN		900	300							450	150		
IR	IRONWORKER		1800	600							900	300		
LA	LABORER		1020	310	10	10	10	10	10	10	460	160	10	10
PF	PIPEFITTER													
UND	UNDRESSER		300	100							150	50		
WE	WELDER													
TOTAL	KEH		4110	1340	10	10	10	10	10	10	2005	675	10	10
	REPORT TOTAL		4110	1340	10	10	10	10	10	10	2005	675	10	10

**RESOURCE  
LOADING  
DETAIL  
BY ACTIVITY  
KEH**

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 233  
15:44

## RESOURCE LOADING REPORT

START DATE 01JAN95 FIN DATE 31DEC97\*

## RESOURCE LOADING DETAIL BY ACTIVITY - KEH

## TOTAL USAGE FOR MONTH

DATA DATE 01JAN95 PAGE NO. 1

RESOURCE	RESOURCE DESCRIPTION	TOTAL USAGE FOR MONTH											
		JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
150055 - Remove 6-Ton Crane													
AS	ASSIST	30											
EL	ELECTRICIAN	300											
IR	IRONWORKER	600											
LA	LABORER	300											
UND	UNDRESSER	100											
TOTAL	BC 150055	1330											

## BC 150060 - Install 10-Ton Capacity Crane

AS	ASSIST	30									
EL	ELECTRICIAN	300									
IR	IRONWORKER	600									
LA	LABORER	300									
UND	UNDRESSER	100									
TOTAL	BC -150060	1330									

## BC14120 - INSTALL 3-1/2 TON CRANE

AS	ASSIST	30	30								
EL	ELECTRICIAN	300	300								
IR	IRONWORKER	600	600								
LA	LABORER	300	300								
UND	UNDRESSER	100	100								
TOTAL	BC14120	1330	1330								

## BC186 - Waste Compaction/Decon

LA	LABORER	10	10								
TOTAL	BC186	10	10								

## BC188 - Waste Compaction/Decon

LA	LABORER	10	10								
TOTAL	BC188	10	10								

## BC190 - Waste Compaction/Decon

LA	LABORER	10		10							
TOTAL	BC190	10		10							

## BC192 - Waste Compaction/Decon

LA	LABORER	10			10						
TOTAL	BC192	10			10						

## BC194 - Waste Compaction/Decon

LA	LABORER	10				10					
TOTAL	BC194	10				10					

## BC196 - Waste Compaction/Decon

LA	LABORER	10					10				
TOTAL	BC196	10					10				

## BC198 - Waste Compaction/Decon

LA	LABORER	10						10			
TOTAL	BC198	10						10			

## PRIMAVERA PROJECT PLANNER

REPORT DATE 10JAN96 RUN NO. 233  
15:44

## RESOURCE LOADING REPORT

START DATE 01JAN95 FIN DATE 31DEC97\*

DATA DATE 01JAN95 PAGE NO. 2

## RESOURCE LOADING DETAIL BY ACTIVITY - KEH

## TOTAL USAGE FOR MONTH

RESOURCE	RESOURCE DESCRIPTION	TOTAL	JAN 1996	FEB 1996	MAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	OCT 1996	NOV 1996	DEC 1996
200	- Waste Compaction/Decon													
TOTAL	LABORER	10										10		
BC200			-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
TOTAL	BC200	10										10		
BC202	- Waste Compaction/Decon													
LA	LABORER	10										10		
TOTAL	BC202	10										10		
BC298	- Waste Compaction/Decon													
LA	LABORER	10										10		
TOTAL	BC298	10										10		
BC300	- Waste Compaction/Decon													
LA	LABORER	10										10		
TOTAL	BC300	10										10		
BC302	- Waste Compaction/Decon													
LA	LABORER	10										10		
TOTAL	BC302	10										10		
REPORT TOTAL		4110	1340	10	10	10	10	10	10	10	2005	675	10	10

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