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Maintenance Resource Prediction Model (MRPM) User's Manual

by
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The Maintenance Resource Prediction Model (MRPM) is a computer system designed to assist in planning and programming maintenance resources, based on the anticipated resource requirements of actual installation facilities, for prediction periods of 1 to 10 years.

This User's Manual provides improved maintenance resource data for use in facility planning, design, and maintenance activities. This manual explains the application of the MRPM computer system to installation facility data base information, to help Army planners in preparing DD Form 1391 documentation, designers in life-cycle cost component selection, and maintainers in resource planning.

This data base and computer system is presently used by U.S. Army Corps of Engineers (USACE) designers at district and installation levels, and by resource programmers at the USACE Headquarters, Army Major Command, and installation levels. These products may also prove useful to other Government agencies and to the private sector.

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FOREWORD

This research was conducted for Headquarters, U.S. Army Corps of Engineers (HQUSACE) and the Office of the Assistant Chief of Engineers (OACE) under various Research, Development, Testing, and Evaluation (RDTE) and reimbursable funding documents. Work began under RDTE in 1980 and continued in reimbursable projects from 1984 to 1989. The technical monitor for the RDTE part was initially Dr. Larry Schindler, CEMP-ECE, and at the termination of the project, Mr. Edward Davis, CEHSC-FM-R. The technical monitor for the reimbursable part was Ms. Val Corbridge, DAEN-ZCP-B.

The work was performed by the Facility Systems Division (FS), U.S. Army Construction Engineering Research Laboratory (USACERL). The principal investigators were Dr. Edgar Neely and Mr. Robert Neathammer. The primary contractor for much of the data development was the Department of Agricultural Engineering, Pennsylvania State University. Dr. Michael J. O'Connor is Chief of FS. The USACERL technical editor was Mr. William J. Wolfe, Information Management Office.

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MAINTENANCE RESOURCE PREDICTION MODEL (MRPM) USER'S MANUAL

1. INTRODUCTION.

1.1 Basic Operation Description.
The MRPM system should be located in the estimating section of your organization. Your estimators are the only people that receive all project-related work requests and understand the total workload.

The Maintenance Resource Prediction Model (MRPM) system is a tool to help plan and program resources based on the anticipated requirements of the actual facilities at an installation.

The MRPM system is a multiyear cost estimating system for determining maintenance resources. Prediction periods can range between 1 and 10 years.

The MRPM system allows you to define: (1) individual facilities or individual dwelling units as in your current Building Information Schedule or (2) groups of facilities that were constructed during the same year from the same construction drawings and are being completely maintained as a single unit (e.g., all roofs are replaced in the same year, all heaters are replaced in the same year).

MRPM allows you to manage your facilities by the exception rule. The system assumes work progresses by your schedule unless the system is told to reschedule specific tasks or events. When work is performed on schedule, you do not have to tell the system the work was completed. When the work is performed ahead or behind schedule, in terms of years, you may want to tell the system the new schedule if large costs are involved and/or the new schedule differs greatly from the old one.

Facilities are described by entering the facility components (e.g., roof, carpet, doors, sinks). Within a facility, the system will process one component at a time.

The MRPM uses an eight-step process to estimate resource requirements for a facility:

The first step is to schedule the future component replacement dates. This scheduling can be performed in one of three different ways:

1. When the components are being maintained according to the standard maintenance practices and are lasting the normal or average component life, you do not have to enter any information about component replacement dates. The system will start with the year of construction and add the average component life to determine the last replacement date before the report period. The average component life will be added to the last replacement date to produce the next scheduled replacement date. You do not have to input any information when the normal progression of events occurs.

2. When high-cost components are replaced earlier or later than the average component life, you can improve the accuracy of your prediction by entering the actual date of last component replacement. MRPM will add the average component life to the date of the actual last component replacement to determine the next scheduled replacement dates. Only replacement dates for high-cost components such as roofs, floors, and furnaces need to be entered. Entering replacement dates for low-cost components

such as electrical switches, faucets, and window hardware does not substantially improve the accuracy of the resource prediction.

3. When you have actually or tentatively scheduled the next replacement date for a high-cost component that is different from the average life, you can improve the accuracy of your prediction by entering that next scheduled replacement date. MRPM will continue to estimate normal maintenance for the component until your next scheduled replacement date. Only scheduled replacement dates for high-cost components such as roofs, floors, and furnaces need to be entered. Entering scheduled replacement dates for low-cost components does not substantially improve the accuracy of the prediction. For example, say the computer had scheduled a 1999 replacement, but actual replacement will occur in 1996. You enter a next component replacement date of 1996.

The second step is to place the tasks that must be performed between component replacements in their proper year of occurrence. The system maintains a complete list of all tasks that must be performed during the life of each component. Starting with the replacement date, MRPM will add the average period of time between performance of the task to determine the scheduled performance dates. When the next component replacement date is reached, the scheduling will start with the next component replacement date. Only normal maintenance tasks with frequencies greater than once a year will be scheduled in the replacement year.

For example, say you enter a last component replacement date of 1981. Assume the painting task for the component would be performed on average once every 10 years. The life of the component averages 40 years. Painting would be scheduled in 1991, 2001, and 2011. Painting would not be scheduled in 2021 since the component would be replaced.

MRPM will divide the average task frequency (the time between subsequent execution of the same task) by the correct combination of special condition multipliers (SCM) to produce a shorter, more accurate frequency based on the occupant and weather effects on the facility. For example, if the average task frequency is 10 years, all interior work has an SCM of 1.1, all door work has an additional SCM of 1.2; then, the adjusted frequency would be 10 years/(1.1 x 1.2) or 7.58 years.

The third step is to determine the number of times (occurrences) each task will be performed during each year. For example, one facility group is composed of 10 identical facilities. Each facility has 20 doors. Thus, there are 200 doors total. Normally, the first door will need painting 8 years after installation. The average door will need painting every 10 years, and the last door will need painting every 12 years. There are then 5 years between painting the first and last door (12 - 8 + 1). If you assume that the same number of doors will be painted each of the 5 years, then 40 doors (200 doors/5 years) will be painted on each of the 8th, 9th, 10th, 11th, and 12th years after the doors were installed. The number of task occurrences would be 40 in each year.

The fourth step is to determine the labor and equipment hours to perform all 40 painting tasks in a given year. This is performed by reading the labor and equipment hours required to paint one door from the Army-wide Basic Task Table (labor hours = 0.33 hrs/door, equipment hours = 0.33 hr/door). Total hours would be 40 occurrences x 0.33 hr/occurrence = 13.2 hr).

The fifth step is to determine the labor, material, and equipment costs to paint all 40 doors in one year. Material cost is calculated by reading the material costs to paint one door from the Army-wide Basic Task Table ($3.06/door) and multiplying by the number of occurrences to produce the material cost of $122.40 ($3.06/occurrence x 40 occurrences). Labor costs are calculated by determining the correct

work performance method (in-house, contract, self-help, troop) and obtaining the cost per hour for the painting shop (in-house: $17.55/hr). Total labor costs are then $17.55/hr x 13.2 hr or $231.66. Equipment costs are calculated by determining the correct work performance method (in-house, contract) and obtaining the cost per hour for the painting shop equipment (in-house: $2.90/hr). Total equipment costs are then $2.90/hr x 13.2 hr or $38.28.

The sixth step is to add the labor, material, and equipment costs to obtain a total dollar cost of $231.66 + $122.40 + $38.28 or $392.34.

The seventh step is to perform steps two through six for all tasks under the component and then to add the results from each task to obtain one total summary for the component. The total number of occurrences for a component would mean the total number of individual tasks to be performed on that component during that year. The hours and dollars would mean the total number of hours and dollars estimated for that one component during that year.

The eighth step is to sum resource requirements for (1) all components under one subsystem, then (2) all subsystems under one system, and then (3) all systems under the total facility. The number of occurrences for the total facility means the total number of individual tasks to be performed on the total facility during that year.

Many users do not want to spend the time to completely describe the components within the facility but want to obtain a resource prediction based on year of construction, F4C code, and primary unit of measure (gross square feet of floor area). Research was performed at 10 installations in the United States and Germany. Typical facilities in each F4C area were modeled in detail and the labor hours, equipment hours, and material costs were determined for each year of age of the facility. The resources were divided by the primary unit of measure (floor area) to produce a requirement per square foot of floor area. Resource requirements for all facilities were added together by age and the average resource requirements by age of facility were obtained. This data can be used in making resource predictions.

1.2 System Organization. There are two types of MRPM systems.

1.2.1 Facility Summary (PC) System. This system is designed for use by installations, Major Commands (MACOM), and Department of the Army (DA). Data can be transferred from one organization to the next higher organization in the chain of command. There are two versions of the summary system. One is located within HQ-IFS and the second is a standalone DOS-based personal computer system.

This system combines individual facilities into groups of facilities. One group is formed for each unique set of four items:

1. Appropriation
2. Temporary or permanent facilities
3. Current use code
4. Construction year.

Resource calculations produce only three cost-related resource figures:

1. Replacement task costs
2. Nonreplacement task costs
3. Total costs (replacement and nonreplacement).

1.2.2 Individual Facility Component System. This is a personal computer-based system that allows the user to define a facility by listing the components found within the facility. The system predicts labor hours, equipment hours, material cost, labor cost, equipment cost, and total cost resource estimates for individual tasks, components, subsystems, systems, and the total facility.

1.3 User Manual Organization. This user's manual covers the individual facility component system only and is designed to be used with the MRPM screens. The information in this manual complements that on the screen. The manual describes the system operations at the installation, MACOM, and Army levels. Chapter 2 describes each function as it appears on the screen within the system. Each screen is shown in a figure and the function of each selection is defined. Chapter 3 presents the review and approval functions to be used at the MACOM level. Chapter 4 contains procedures for the review and approval functions to be used at Headquarters, Department of the Army (HQDA) level. Chapter 5 describes how to set up your PC for using the MRPM system. Chapter 6 contains procedures for learning and using the MRPM system.

1.4 An Overview of the Total Process.

1.4.1 Introduction. The MRPM activities can be divided into two basic sets. The first set of activities relate to the initial setup of your installation data. The second set of activities relate to the annual work that is required. Figure 1-1 shows an overview of the system and will be referenced throughout the section.

1.4.2 Initial Setup. The first step is to check the hardware and software requirements listed in Section 5.1. The second step is to load the MRPM programs and Army-wide facility resource files into your computer as described in Section 5.2. The third step is to enter your installation-specific resource information as described in Section 5.4. The fourth step is to decide how you will store your facilities and determine the subdirectories that you will need as defined in Section 1.8. The directory location table must be updated to show locations of the subdirectories.

Part of your installation resource data can be downloaded from your corporate data base (such as IFS) through an ASCII file. The content and format for this file is given in Section 2.3.8.1 This data includes the facility ID, current use code, construction year, and primary unit of measure.

You can collect and enter your facility component data (i.e., 2350 square feet of shingle roof) as described in Sections 1.5 and 2.3.8.3. This will be your largest effort.

1.4.3 Annual Work. Updating of your facility component information (Figure 1-1, Circle 1) is only required when major replacement work has been scheduled. Since your estimators have prepared a cost estimate for this work they are the ideal people to enter the year the major work was performed. This should be made an integral part of the estimating process.

The first step in preparing your planning and programming documents is to update your installation resource files (Figure 1-1, Circle 2). The two files that need updating are the trade and cost table and the report period table. The reporting years must be incremented by one year and the material time adjustment factor must be changed.

You can now perform calculations (Figure 1-1, Circle 3) for your base facilities first and then your regular facilities. The calculation program uses the Army-wide facility resource files, the facility description files, and the installation resource files to produce one resource summary file for each facility

that contains task, component, subsystem, system and total facility resource information. The total facility resource summary record for each individual facility is placed into the facility total resource summary file.

The resource summary files can be displayed on the screen in both table and graphic format (Figure 1-1, Circle 4). The information displayed on the screen can be printed on paper also.

The resource summary files can be combined to form a number of different reports (Figure 1-1, Circle 5). the reports can be stored in a file for transfer to other computer systems and also printed on paper.

You can query the data to produce answers to specific questions (Figure 1-1, Circle 6). Reports are printed on your printer.

1.4.4 Army-Wide Resource Files. The Army maintains a number of tables in the MRPM system. You do not have to edit these tables. The tables are used by the calculation and modeling programs. The basic Army information functions are as follows:

1. Organization Chart
2. Recurring Maintenance Factors (RMF)
3. F4C Conversion Codes
4. Unit Cost Factors
5. F4C Resource Description Table
6. Component Tree Table
7. Basic Task Table
8. Unit of Measure
9. Task Classification
10. Total/Partial Summary
11. F4C Description Editor
12. Travel Zone.
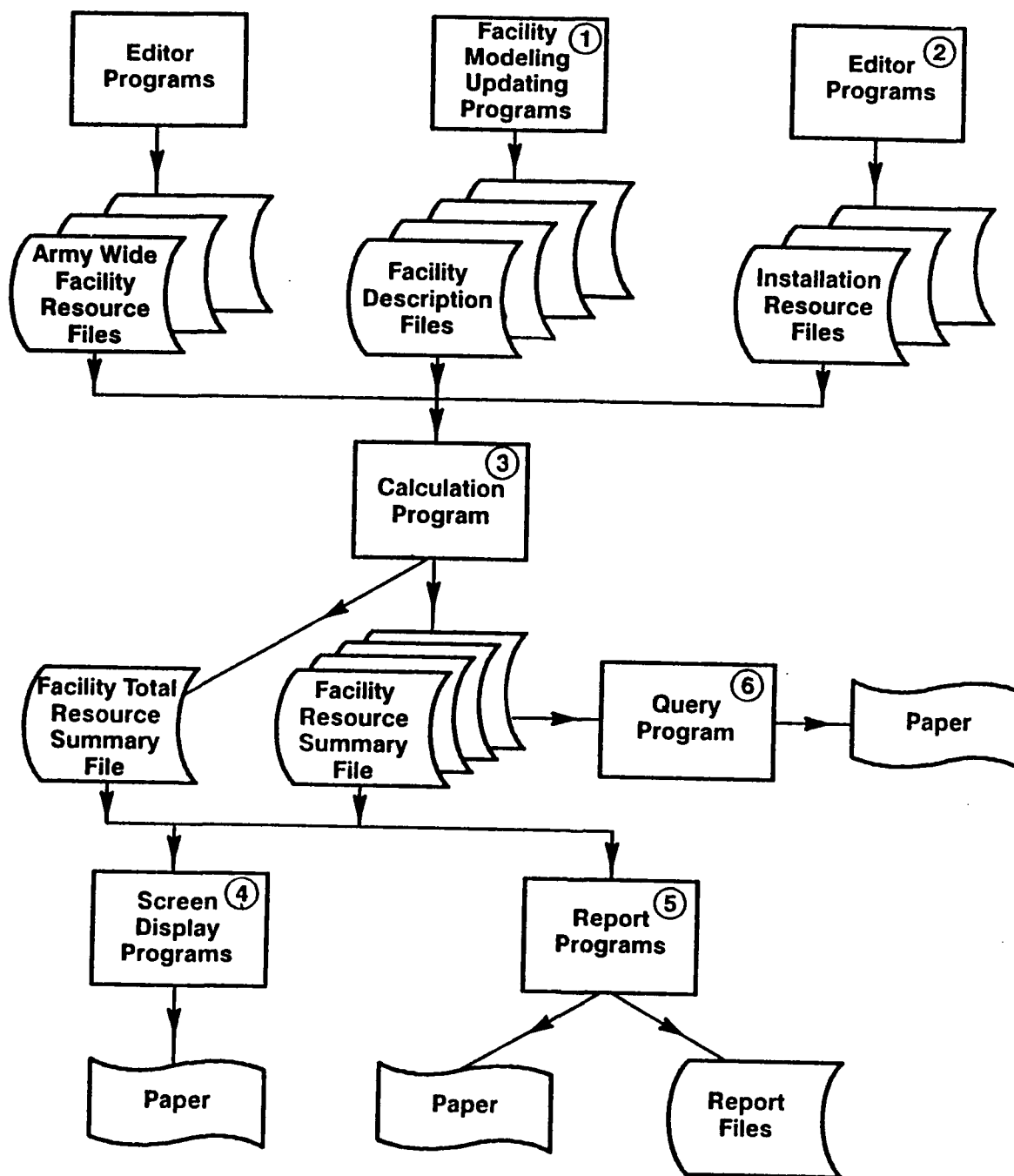
Figure 1-1. MRPM Overview

<u>1.4.5 Installation Resource Files.</u> The installation must maintain a number of tables in the MRPM system. With the exception of the cost tables, the tables are normally edited only once during system initialization. The basic information installation functions are as follows:

1. Report Periods
2. Directory Location
3. Trade and Costs
4. Work Performance Methods
5. Area Identification
6. Subinstallation Identification
7. Special Condition Multiplier
8. Facility Funding Profile.

<u>1.4.6 Facility Description File.</u> The general information about a facility is stored in the general information file of your primary directory (i.e., \DATA\Y2). When you are using subdirectories to store facilities, each subdirectory has a general information file containing only facilities in the subdirectory.

When you enter components for a facility, MRPM creates two files for each facility. One file contains the component descriptions, quantities, and scheduling dates. The second file contains the tree structure defining how tasks are combined into components, components combined into subsystems, subsystems into systems, and finally, systems into a total.

Functions include:

1. General Information
2. Model Facilities
3. Facility Component and Quantity Editor.

<u>1.5 Facility Modeling Options.</u> There are several different ways that you can define a facility within the general facility information file in MRPM>

<u>1.5.1 Single Use Facilities.</u> A facility being used by only one organization for only one current use can be entered as a single facility in the general facility information table.

<u>1.5.2 Multiple Use Facilities.</u> A facility that is being occupied by several different users or the same user for several different current uses can be modeled by several methods:

1. Separate facilities such as family housing apartment buildings - A separate facility can be defined for each apartment and one facility for all common areas of the facility including the roof, exterior walls, basement, and halls.

2. Single basic facility - One facility can be defined for the entire facility. This facility is known as the base facility and must carry an F4C code of 0000000. The base facility is never included in any report summary since it does not have a valid F4C code. An individual entry in the general facility information table should be made for each user or current use within the facility. The facility ID of the total facility must be entered as the Base Facility ID. The percentage of the space occupied by each user or current use can be entered under the percentage of base facility in the general facility information table.

The facilities must be calculated before performing any other calculations since the resource summary file for the base facility is multiplied by the percentage of base facility to obtain resources for each user's facility.

This method allows you to model a complete facility once and keep changing users with very little effort.

1.6 How To Learn the System. The MRPM system can be loaded onto your computer by following the instructions given in Section 5.2 This section provides a step-by-step process for loading the system into you PC.

Start the learning process by reading Chapter 1 and then turning to Chapter 6, Learning the MRPM System. Work your way through Chapter 6 by reading the appropriate paragraph in Chapter 2 first, then perform the learning exercise.

1.7 Standard Screen Display and Keys.

1.7.1 Standard Screen Display.

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*              *******************************************
*              *      Maintenance Prediction Model      *                 *
*              *              Main Menu                  *                 *
*              *****************************************V                  *
*                                                                         *
*                                                                         *
*                                                                         *
*                     Basic Information                                   *
*                                                                         *
*                     Facility Information                                *
*                                                                         *
*                     Review and Approval                                 *
*                                                                         *
*                     Research                                            *
*                                                                         *
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*                                                                         *
*                     Enter F10 to exit system                           *
*                                                                         *
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*                                                                         *
*                                                                         *
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Figure 1-2. Standard Menu Screen Display

The system operates through menus that appear on the screen. An arrow to the left of the menu item on the menu screen indicates that this item will be selected if you hit the ENTER key. To select any item, use your up (↑) and down (↓) arrow keys to move the arrow pointer to the correct selection and press the ENTER key. The system will display a new menu.

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■           EDITOR - General Facility Information        06/23/87 ■
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      □    Seq [1037]          Command Mode                      □
      □    (1) Subinstallation   [01] North Sector               □
      □    (2) Area              [01] SALERNO CIRCLE             □
      □    (3) Facility ID[P12345ABC] [ADMINISTRATIVE          ]□
      □    (5) F4C Code          [6101100] [_____    ]□
      □    (6) Number in F/G    [  1]                            □
      □    (7) Travel Zone      [ 3]                             □
      □    (8) Square Feet      [     18675]                     □
      □    (9) Contruction Year [1982]                           □
      □    (10) W/P Method Index [1] minor-inhouse,major-contract □
      □    (11) Special Cond. Mult.ID[01]Normal Conditions       □
      □    (12) Scheduled disposal date [01/01/99]   [mm/dd/yy]  □
      □    (13) Last Changed Date       [          ]  [mm/dd/yy]  □
      □    (14) Last Calculation Date    [04-20-87]   [mm/dd/yy]  □
      □    (15) Facility Funding Profile[01] Test                □
      □    (16) Calculation Modeling Id [1] (1:4) As Entered     □
      □    (17) Directory Specified [ ] (blanks if none)         □
      □                                                          □
      ************************************************************¶
F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 MASK F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 1-3 Standard Screen Display

Each screen is divided into three sections. The top section displays titles or headings that indicate your current location in the MRPM system. The bottom section is the last line on the screen and displays the function keys that are currently active for your use. The middle portion of the screen displays the information that can be changed at the terminal.

1.7.2 Standard Keys.

Key Name	Action
1. Page Up	To move to the previous record or screen of records to be displayed.
2. Page Down	To move to the next record or screen of records to be displayed.
3. Arrow Keys	To move up (↑) or down (↓) to the next field (input value) or to move to the previous (←) or next (→) character in a field being edited.
4. F1 (TOP)	To display the first record or screen of records.
5. F2 (BOT)	To display the last record or screen of records.
6. F3 (FIND)	To locate a known item within a table. The system will highlight the Area where you are to type the item to be located. After typing the item to be located, press the ENTER key to perform the location. Special functions require the F3 FIND key to be entered.
7. F4 (LIST)	To produce a printed listing of the complete table on your printer.
8. F5 (EDIT)	To edit the information within the record(s) displayed on the screen.
9. F6 (SELECT)	To choose a table for review or editing.
10. F7 (ADD)	To add a new entry into the table.
11. F8 (DEL)	To remove an existing entry from the table.
12. F9 (SAVE)	To save the changes and leave the edit or add function.
13. F10 (EXIT)	To not save the changes, leave the edit or add function, go back to previous screen.
14. Selection Key	To make a selection from any menu, move the arrow or blinking (enter)underscore, known as the cursor, using the ↑↓ arrow to the item to be selected and press the ENTER key.
15. Ctrl-C	To stop printing.
16. (Print Screen)	To print the current contents of the screen on your printer.
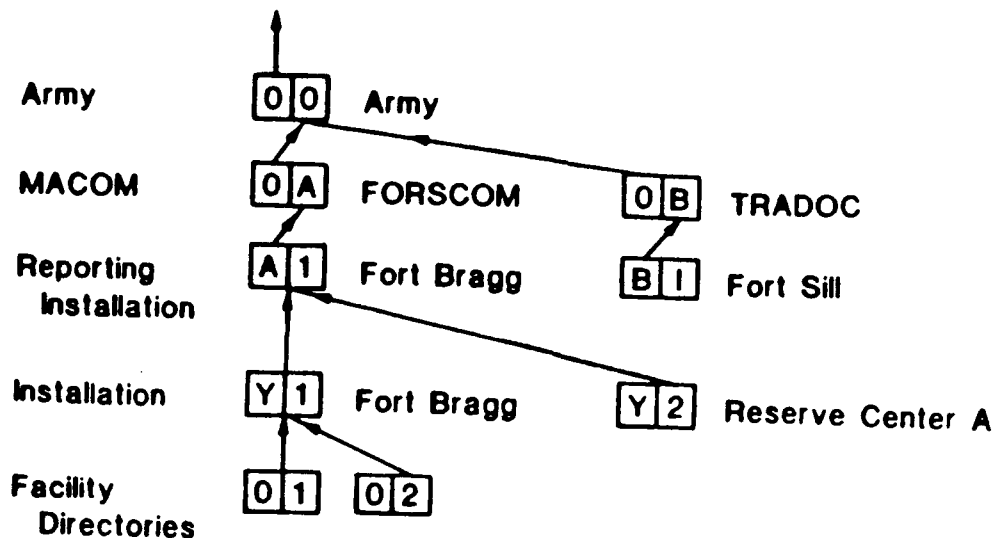
Figure 1-4. Standard MRPM Army Organizational Chart by Organization Codes

A reporting installation is defined as the organization that prepares and submits a Technical Data Report to a MACOM. Reporting installations (A1 Bragg in Figure 1-3) are currently listed in the MRPM organizational chart under each MACOM (0A FORSCOM in Figure 1-3).

All organization codes are established as follows: (1) the first character identifies the next higher organization (i.e., MACOM for installations), (2) the second character identifies the individual reporting organizations under the next higher organization (i.e., each installation for one MACOM).

Several installations may report through one reporting installation. During initial MRPM setup, the reporting installation must add each of its installations to the Organizational Chart. The main or primary installation should be given the organization code Y2. Other installations can be numbered Y3, Y4, etc. The MACOM ID should be the organizational code for the reporting installation.

For efficiency, facilities are stored in many different directories. There should be no more than 300 facilities in any one facility directory. Facility directories are numbered from \01 to \99. Each directory normally contains a homogenous set of facilities: (1) all facilities located in several housing areas; (2) all facilities located in one housing area; (3) 300 facilities located in one housing area, or (4) all administration buildings. The reporting installation will enter each facility directory as an organizational code. The MACOM ID should be the installation's organizational code (Y2, Y3, Y4).

Your first step in setting up your reporting installation is to list all installations under the reporting installation and assign IDs (Y3, Y4, Y5, etc.). The second step for each installation is to review the number of facilities by F4C code and determine how you will divide them into facility directories and assign facility directory IDs (Y3:01-06, Y4:07-10, Y5:11-21, etc.). The third step is to enter this information into the computer.

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□                    □        Maintenance Prediction Model       □                            □
□                    □        Installation Selection Menu        □                            □
□                    àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV              □
□                                                                                             □
□           Installation name                            Batch contents                       □
□ èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeef èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeef       □
□  □ DOS                                    □ □CD E:\                                  ▪ □
□  □   Enter Current Learn DataBase         □ □                                        □ □
□  □   Create a New Learn DataBase          □ □                                        □ □
□  □   Fort Bragg· Reporting Inst           □ □                                        □ □
□  □   Fort Bragg·    Primary  Inst         □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□  □                                        □ □                                        □ □
□ àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV       □
□                                                                                             □
□                                                                                             □
F1      F2      F3SETUP F4      F5 EDIT F6      F7       F8       F9       F10EXIT▪
```

Figure 1-5. Installation Selection Menu

When you use the program for the first time, the installation selection menu displays five choices: (1) DOS: this selection will place you into the E: drive and you can perform any DOS commands; (2) Enter Current Learn Data Base: this selection will place you into the E:\Data\Learn directory. You can then type MRPM to start the system; (3) Create a New Learn Data Base: this selection will create a fresh copy of \Data\Learnbas in the \Data\Learn directory. You can then type MRPM to start the system; (4) Reporting Installation: Directory \Data\RI has already been established for you to collect funding files from your organization and produce funding files for your reporting installation; and (5) Primary Installation: Directory \Data\Y1 has been established for you as the directory for your primary installation and all basic information data storage.

Your first step is to EDIT (F5) the table and insert the name for your reporting installation and your primary installation. Step two is to SETUP (F3) your installation (Y1, Y2, etc.) and correct facility directories.

```
††††††††††††††††††††††††††††††††††††††††††††††††††††††††[
□                                                        □
□  SETUP NEW INSTALLATION                                □
□                                                        □
□    1)  ENTER NEW INSTALLATION NAME:                    □
□        FORT BRAGG                                      □
□    2)  ENTER DIRECTORY NAME: E:\DATA\Y2                □
□            ex: A1, A2, or B2 ...                       □
□    3)  ENTER STARTING SUBDIRECTORY: E:\23              □
□        ENTER ENDING SUBDIRECTORY: E:\34                □
□                                                        □
àeeeèeeeeeeeeèeeeeeeeeeeèeeeeeeeeeeeèeeeeeeeeeeeeeeeeeeeeV
```

```
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 1-6. Installation Setup

You are now ready to enter the MRPM system. Highlight the primary installation and press the ENTER key. The system will automatically transfer you to the correct directory. Now type MRPM and press the ENTER key. Follow the procedure in Chapter 5 titled "Loading Installation Data Tables."

2. INSTALLATION FUNCTIONS.

This chapter describes all functions of the system in the order that the functions appear on the screen. The manual shows the screens as each function is defined. Appendix A contains a chart showing all selection items and all screens.

2.1 Maintenance Prediction Model Main Menu.

```
                Maintenance Prediction Model
                         Main Menu


            Basic Information

            Facility Information

            Review and Approval

            Research

            Special Programs



                    Updated 12 Sep. 1988
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-1. Maintenance Prediction Model Menu

Five types of functions are available:

1. Basic Information--these functions allow you to maintain tables that contain the general information required to define the installation's maintenance policies.

2. Facility Information--these functions allow you to define general information about each facility, model its components, perform resource prediction calculations, obtain reports, and ask questions related to a facility or group of facilities.

3. Review and Approval--these functions allow you to calculate resource summary files by appropriation and Army Management System (AMS) codes. You can display the resources on the screen for review and generate the resource prediction information required by higher headquarters.

4. Research--these functions allow researchers to analyze your resource data. The functions are not defined in this manual.

5. Special Program--these functions allow researchers to perform special functions and are not defined in this manual.

2.2 Basic Information Selection Menu.

```
**************************************************************************
 *              ***********************************************          *
 *              *              Basic Information          *          *
 *              *              Selection Menu             *          *
 *              ****************************************************        *
 *                                                                      *
 *                                                                      *
 *                                                                      *
 *                        General Information                           *
 *                                                                      *
 *                        Prediction Models                            *
 *                                                                      *
 *                        Facility Resource Data                        *
 *                                                                      *
 *                        Data for Individual Facilities               *
 *                                                                      *
 *                                                                      *
 *                                                                      *
 *                                                                      *
 *                        Updated 12 Sep. 1988                          *
 ***********************************************************************
 F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-2. Basic Information Selection Menu

Four types of data can be accessed through this set of screens:

1. General Information--tables dealing with organizational charts, Recurring Maintenance Factors (RMFs), F4C to AMS conversion tables, and reporting periods.

2. Prediction Models--tables that contain the calculation methods that are available to you and the calculation methods you have chosen to use for facilities and components of facilities.

3. Facility Resource Description Data--tables that define all of the possible components in a type of facility (such as buildings) and the tasks that must be performed to keep the facility in a standard maintenance condition under average usage and weather conditions, and tables that contain your labor and equipment costs.

4. Reference Data for Individual Facilities--tables that define common information for many facilities: geographic area on post, travel zones, and special condition multipliers.

2.2.1 General Information.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
■                      ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£           ▫
■                      ■      General Information       ▫        ▫
▫                      ▫        Selection Menu          ▫        ▫
▫                      ▲ΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣ▼        ▫
▫                                                                ▫
▫                                                                ▫
▫                       Organization Chart                       ■
▫                                                                ▫
▫                       RMF Factors                              ▫
▫                                                                ▫
▫                       F4C Conversion Codes                     ▫
▫                                                                ▫
▫                       Report Periods                           ▫
▫                                                                ▫
▫                       Unit Cost Factors                        ▫
▫                                                                ▫
▫                       Directory Location                       ▫
▫                                                                ▫
▫                                                                ▫
▫                       Updated 12 Sep. 1988                     ▫
▲ΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣΣ▼
F1       F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-3. General Information Selection Menu

<u>2.2.1.1 Organization Chart.</u> This table lists all major reporting organizations in the Army.

```
                          ORGANIZATIONAL CHART              PAGE  1
eeeeee1eeeeee1eeeeeeee1eeeeeeeeeeeeeeeeeeeeeeeeeee1eeeeee1eeeeeeeee1eeeeeee£
o ORG * ORG  *  INST  *        ORGANIZATION        *MACOM *RELATION * SUB  o
o NO  *  ID  *   ID   *        DESCRIPTION          *  ID# *  CODE   * CODE o
UaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaeaaaaaaeaaaaaaaaaeaaaaaaN
o 001 *  00  *         *ARMY                        *  XX  *         *      o
o 002 *  0A  *         *FORSCOM                     *  00  *         *      o
o 003 *  A1  *         *FT.BRAGG                    *  0A  *         *      o
o 004 *  A2  *         *FT.CAMPBELL                 *  0A  *         *      o
o 005 *  A3  *         *FT.CARSON                   *  0A  *         *      o
o 006 *  A4  *         *FT.DEVENS                   *  0A  *         *      o
o 007 *  A5  *         *FT.DRUM                     *  0A  *         *      o
o 008 *  A6  *         *FT.HOOD                     *  0A  *         *      o
o 009 *  A7  *         *FT.INDIANTOWN GAP           *  0A  *         *      o
o 010 *  A8  *         *FT.SAM HOUSTON              *  0A  *         *      o
o 011 *  A9  *         *FT.LAWTON                   *  0A  *         *      o
o 012 *  A0  *         *FT.LEWIS                    *  0A  *         *      o
o 013 *  AA  *         *FT.MCCOY                    *  0A  *         *      o
o 014 *  AB  *         *FT.MCPHERSON                *  0A  *         *      o
o 015 *  AC  *         *FT.MEADE                    *  0A  *         *      o
aeeeeeuaeeeeeuaaeeeeeeuaeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeuaeeeeeeuaeeeeeeeuaeeeeeV

   F1 TOP  F2 BOT  F3     F4 LIST F5 EDIT F6     F7 ADD  F8 DEL  F9     F10EXIT
```

Figure 2-4. Organizational Chart

Each organization in the Army has been assigned a unique two-character MRPM organizational ID, which is listed in the second column of this table (ORG ID). This ID is used to identify the owner organization of MRPM files and is a part of the naming convention of all appropriation AMS resource summary files. The ID for your organization should be entered in the report dates file when you first install the MRPM system. All IDs are listed in Table 2-1. The installation ID and relation ID are not used at present, but can be copied directly from the IFS data base if required at a later date. The ORG No. in column one is used only to keep track of where the data for an organization is stored in the table.

Table 2-1. Organizational Codes and Descriptions for Personal Computer Files

00-Army	Climate Zone		Climate Zone
		BG-Fort Pickett	5
0A-FORSCOM		BH-Fort Rucker	2
A1-Fort Bragg	3	BI-Fort Sill	3
A2-Fort Campbell	5	BJ-Fort Leonard Wood	5
A3-Fort Carson	8	BK-Carlisle Bks	6
A4-Fort Devens	7		
A5-Fort Drum	8		
A6-Fort Hood	2	0C-USAISC	
A7-Fort Indiantown Gap	6	C1-Fort Huachuca	4
A8-Fort Sam Houston	2	C2-Fort Ritchie	6
A9-Fort Lawton	8		
A0-Fort Lewis	8	0D-AMC	
AA-Fort McCoy	9	D1-Anniston AD	3
AB-Fort McPherson	3	D2-AMMR	7
AC-Fort Meade	6	D3-Harry Diamond Lab	6
AD-Fort Riley	6	D4-Letterkenny AD	6
AE-Fort Sheridan	7	D5-Lexington-BG AD	6
AF-Fort Stewart	2	D6-New Cumberland AD	6
AG-Fort Irwin	3	D7-Picatinny ARS	6
AH-Presidio of SF	5	D8-Pine Bluff ARS	3
AI-Vancouver Bks	9	D9-Red River ARS	2
AJ-Yakima Firing Ctr	7	D0-Redstone ARS	3
AK-Fort Greely	11	DA-Rock Island ARS	7
AL-Fort Richardson	11	DB-Rocky Mtn ARS	8
AM-Fort Wainwright	11	DC-Sacramento AD	4
AN-Petroleum Div	11	DD-Savanna AD	7
AO-Panama	1	DE-Seneca AD	8
AP-Fort Ord	5	DF-Sharpe AD	4
AQ-Fort Polk	2	DG-Sierra AD	7
		DH-Tobyhanna AD	7
0B-TRADOC		DI-Tooele AD	7
B1-Fort Belvoir	6	DJ-Watervliet ARS	8
B2-Fort Benning	3	DK-Corpus Christi AD	1
B3-Fort Bliss	3	DL-McAlester AAP	3
B4-Fort Chaffee	3	DM-Pueblo DA	7
B5-Fort Dix	6	DN-Fort Wingate DA	3
B6-Fort Eustis	5	DO-Umatilla DA	5
B7-Fort Gordon	3	DP-Detroit ARS	8
B8-Fort Benjamin Harrison	6	DQ-Fort Monmouth	6
B9-Fort A. P. Hill	5	DR-Jefferson PG	6
BA-Fort Knox	5	DS-St. Louis Sup Ctr	5
BB-Fort Leavenworth	6	DT-Selfridge Sup Ctr	8
BC-Fort Lee	5	DU-Natick Dev Ctr	7
BD-Fort McClellan	3	DV-White Sands MR	3
BE-Fort Monroe	5	DW-Yuma PG	1
BF-Fort Hamilton	6	DX-Dugway	7

Table 2-1 (Cont'd)

	Climate Zone			Climate Zone
DY-Aberdeen PG	6		0I-COE	
DZ-Badger AAP	8		I1-COE	
P1-Cornhusker AAP	7			
P2-Holston AAP	5		0J-USMA	
P3-Indiana AAP	6		J1-USMA	7
P4-Iowa AAP	7			
P5-Joliet AAP	7		0K-USAEUR	
P6-Kansas AAP	5		K1-V Corps	11
P7-Lake City AAP	5		K2-VII Corps	11
P8-Lone Star AAP	2		K3-21st Sup Cmd	11
P9-Longhorn AAP	2		K4-SETAF	11
PO-Louisiana AAP	2		K5-7th ATC	11
PA-Milan AAP	3		K6-HQ 26th Sup Cmd	11
PB-Newport AAP	6		K7-DEH Berlin	11
PC-Radford AAP	5			
PD-Ravenna AAP	7		0L-USARJ	
PE-Riverbank AAP	4		L1-HONSHU	
PF-Scranton AAP	7		L2-Okinawa	
PG-Sunflower AAP	5			
PH-Twin Cities AAP	9		0M-BMDSC	
PI-Ethan Allen FR	7		M1-Kwajalein	
PJ-Volunteer AAP	3			
PK-Hawthorne AAP	4		0N-KOREA	
PL-Mainz AD	11		N1-Korea	
PM-Lima AMC	7			
			0O-WESTCOM	
0E-INSCOM			O1-Westcom	
E1-Arlington Hall Stn	6			
E2-Vint Hill Farms	6			
0F-HSC				
F1-Fort Detrick	6			
F2-Fitzsimmons Med Ctr	8			
F3-Walter Reed Med Ctr	6			
0G-MDW				
G1-MDW	6			
0H-MTMC				
H1-Bayonne MOT	6			
H2-Oakland AB	5			
H3-Sunny Point MOT	3			
H4-Gulf Outport	2			

All major reporting installations are responsible for the management and reporting of several smaller installations. When you first load the system into your computer, you will need to enter each of the smaller installations that has a unique IFS installation ID and reports through your installation. Always use "Y" as the first character of the ORG ID and the numbers 1 through 9, then letters A through Z as the second character. Always use your installation's ORG ID as the MACOM ID (parent organization) for each smaller installation.

2.2.1.2 RMF Factors. This table has been developed by HQDA and lists the installation's RMFs by AMS codes. The RMFs have been calculated by averaging the past 5 years' data as reported in the Technical Data Report.

```
                              RMF   FACTORS

                   STARTING AMS CODE  :   K3290
                   ENDING  AMS CODE   :   K3290
                   DEFAULT RMF FACTOR :       .00

                   YEAR          RMF FACTOR
                     1              1.93
                     2              1.93
                     3              1.93
                     4              1.93
                     5              1.93
                     6              1.93
          CUR DN     7              1.93
                     8              1.93
                     9              1.93
                    10              1.93

F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6      F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-5. RMF (OCE) Factor File

MRPM allows a different RMF for facility ages 1 through 80. This table contains the recurring maintenance factors for your installation. When the same RMF values apply to several sequential AMS codes, a range of AMS values can be specified for one set of RMFs. If the same RMF value will be used for each of the 80 years, this value is entered as the default RMF. The system will automatically enter this value in each of the 80 years.

2.2.1.3 F4C Conversion Codes. This table lists all F4C codes and the appropriate AMS code conversion values for each. The table has been copied directly from HQ-IFS.

```
              F4C TO AMS CONVERSION TABLE
  ▲▲▲▲▲▲▲▲▲▲▲▲|▲▲▲▲▲▲▲▲▲▲▲▲▲▲|▲▲▲▲▲▲▲▲▲▲▲▲|▲▲▲▲▲▲▲▲▲▲▲£
  ▫ F4C CODE  * AMS NUMBER   ▫ F4C CODE  * AMS NUMBER   ▫
  Ú▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲R
  ▫  1110000  *  K5210      ▫  1132100  *  K5220      ▫
  ▫  1111000  *  K5210      ▫  1133000  *  K5210      ▫
  ▫  1111100  *  K5220      ▫  1133100  *  K5210      ▫
  ▫  1112000  *  K5210      ▫  1133200  *  K5210      ▫
  ▫  1112100  *  K5220      ▫  1133300  *  K5220      ▫
  ▫  1113000  *  K5210      ▫  1133400  *  K5220      ▫
  ▫  1113100  *  K5220      ▫  1133500  *  K5220      ▫
  ▫  1114000  *  K5210      ▫  1134000  *  K5210      ▫
  ▫  1114100  *  K5220      ▫  1134100  *  K5220      ▫
  ▫  1121000  *  K5210      ▫  1135000  *  K5210      ▫
  ▫  1121100  *  K5220      ▫. 1135100  *  K5220      ▫
  ▫  1122000  *  K5210      ▫  1136000  *  K5210      ▫
  ▫  1131000  *  K5210      ▫  1136100  *  K5220      ▫
  ▫  1131100  *  K5220      ▫  1137000  *  K5210      ▫
  ▫  1132000  *  K5210      ▫  1137100  *  K5220      ▫
  ▲▲▲▲▲▲▲▲▲▲▲▲▲Ú▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲Ú▲▲▲▲▲▲▲▲▲▲▲▲▲Ú▲▲▲▲▲▲▲▲▼
```

F1 TOP   F2 BOT   F3 FIND F4   F5 EDIT F6   F7 ADD   F8 DEL   F9   F10EXIT

Figure 2-6. F4C to AMS Conversion Table

2.2.1.4 Report Periods. This tables allows you to enter the name of your installation exactly the way you want it to appear on all reports. You can also enter the current report period beginning and ending years.

Beginning and ending report years are normally changed once per year. The system will automatically perform this function upon request as you edit this information. If you are modeling facilities by components, you must never go backward in time. Component/task calculation will be incorrect and you will destroy your database.

```
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ü                                Report Periods                                 ü
ü                                                                               ü
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üüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüE
ü                              Command mode                                     ü
ü                                                                               ü
ü       Name of Installation ........[Funding Reporting System Demo ]           ü
ü                                                                               ü
ü       Beginning Report Year .......[1986]                                     ü
ü       Ending Report Year ..........[1995]                                     ü
ü       Material Location Adjustment  [1.000]                                   ü
ü                                                                               ü
ü       Material Time Adjustment ....[1.000]                                    ü
ü       RMF Time Adjustment .........[1.000]                                    ü
ü       Organization  ID ............[21]                                       ü
ü                                                                               ü
ü       Maximum Lines Per Page ......[66]                                       ü
ü       Virtual Drive Letter ........[F]                                        ü
ü       Cost Adjustment Factor.......[1.000]                                    ü
ü                                                                               ü
ü                                                                               ü
ü                                                                               ü
üüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüüü¥
F1      F2      F3      F4      F5 EDIT F6      F7      F8      F9      F10EXIT
```

Figure 2-7. Report Periods

The material costs stored in the database are for the Washington, DC, area. The material location adjustment factor found in Table 2-2 (copied from Army Regulation [AR] 415-17) must be entered to obtain more accurate material costs for your area.

Table 2-2. Area Cost Factor Indexes[1]

CONUS Areas

State	Location	ACF Index
Alabama	State Average	.86
	Birmingham	.96
	Mobile	.86
	Montgomery	.76
	Anniston Army Depot	.81
	Huntsville	.88
	Fort McClellan	.80
	Redstone Arsenal	.88
	Fort Rucker	.80
Alaska	State Average	2.25
	Anchorage	1.92
	Delta Junction	2.70
	Fairbanks	2.13
	Adak	3.88
	Aleutian Islands	3.86
	Anchorage NSGA	1.92
	Barrow	4.18
	Burnt Mtn.	6.86
	Clear	3.10
	Eielson AFB	2.13
	Elmendorf AFB	1.92
	Galena	3.73
	Fort Greely	2.70
	Fort Richardson	1.92
	Fort Wainwright	2.13
Arizona	State Average	1.02
	Flagstaff	1.02
	Phoenix	.99
	Tucson	1.05
	Fort Huachuca	1.22
	Yuma Proving Ground	1.31
	Yuma	1.31
Arkansas	State Average	.89
	Pine Bluff	.93
	Little Rock	.83
	Fort Smith	.92
	Fort Chaffee	.92
	Pine Bluff Arsenal	.93

[1]Source: AF 415-17.

Table 2-2 (Cont'd)

State	Location	ACF Index
California	State Average	1.21
	Los Angeles	1.20
	San Diego	1.18
	Beale	1.28
	Bridgeport NWTC	1.27
	Castle	1.13
	Centerville Beach	1.32
	Desert Area	1.18
	Edwards AFB	1.30
	El Centro	1.27
	George AFB	1.31
	Fort Hunter Liggett	1.29
	Fort Irwin	1.20
	Le Moore NAS	1.20
	March AFB	1.18
	Mather AFB	1.17
	McClellan AFB	1.17
	Monterey Area	1.23
	Presidio of Monterey	1.23
	Norton AFB	1.16
	Oakland Army Base	1.33
	Fort Ord	1.24
	Hueneme Area	1.20
	Riverside	1.18
	Sacramento	1.15
	Sacramento Army Depot	1.15
	Presidio of San Francisco	1.25
	San Nicholas Island	2.59
	Sharpe Army Depot	1.13
	Sierra Army Depot	1.33
	Stockton	1.15
	Travis AFB	1.27
	Vandenburg AFB	1.38
Colorado	State Average	.98
	Colorado Springs	.94
	Denver	1.04
	Pueblo	.96
	Fort Carson	1.01
	Fitzsimmons AMC	1.06
	Pueblo Army Depot	.96
	Peterson AFB	.94
	Rocky Mountain Arsenal	1.06

Table 2-2 (Cont'd)

State	Location	ACF Index
Connecticut	State Average	1.13
	Bridgeport	1.16
	Hartford	1.10
	New London	1.14
Delaware	State Average	.99
	Dover	1.04
	Lewes	.98
	Lewes NF	1.04
	Dover AFB	1.04
District of Columbia	Washington	1.03
	Fort McNair	1.03
	Walter Reed AMC	1.03
Florida	State Average	.89
	Miami	.95
	Panama City	.92
	Tampa	.79
	Cape Canaveral	.96
	Cape Kennedy	.96
	Gulf Coast	.85
	Homestead AFB	.88
	Homestead	.88
	Jacksonville Area	.85
	Key West NAS	1.08
	Orlando	.80
	Pensacola Area	.85
	McDill AFB	.77
	Eglin AFB	.77
	Tyndall AFB	.92
Georgia	State Average	.80
	Albany	.82
	Atlanta	.87
	Macon	.70
	Athens	.90
	Atlanta-Marietta	.93
	Fort Benning	.71
	Columbus	.71
	Fort Gillem	.87
	Fort Gordon	.94
	Kings Bay	.93
	Fort McPherson	.87
	Fort Stewart	.84

Table 2-2 (Cont'd)

State	Location	ACF Index
Hawaii	State Average	1.28
	Hawaii	1.29
	Honolulu	1.27
	Maui	1.29
	Alimanu	1.27
	Barbars Point NAS	1.34
	Fort Debussy	1.27
	EWA Beach Area	1.34
	Helemano	1.34
	Hickam Army Air Field	1.27
	Kaneohe MCAS	1.34
	Moanalua	1.27
	Pearl City	1.27
	Pearl Harbor	1.27
	Pohakuloa	1.32
	Schofield Barracks	1.27
	Fort Shafter	1.27
	Tripler AMC	1.27
	Wheeler Army Air Field	1.34
Idaho	State Average	1.11
	Boise	1.05
	Idaho Falls	1.08
	Mountain Home	1.19
	Mountain Home AFB	1.20
Illinois	State Average	1.03
	Belleville	.96
	Chicago	1.09
	Rock Island	1.03
	Rock Island Arsenal	1.06
	St. Louis Support Ctr	.96
	Savannah Army Depot	1.05
	Scott AFB	1.03
	Fort Sheridan	1.10
Indiana	State Average	.99
	Indianapolis	1.03
	Logansport	.99
	Madison	.94
	Fort Benjamin Harrison	1.07
	Crane	1.10
	Crane AAP	1.10
	Grissom AFB	1.06
	Indiana AAP	1.02
	Jefferson Proving Ground	.94

Table 2-2 (Cont'd)

State	Location	ACF Index
Iowa	State Average	1.02
	Burlington	1.04
	Cedar Rapids	.98
	Des Moines	1.05
	Iowa AAP	1.06
Kansas	State Average	.94
	Manhattan	.97
	Topeka	.96
	Wichita	.88
	Kansas AAP	.94
	Fort Leavenworth	.94
	Fort Riley	.97
	Sunflower AAP	.97
Kentucky	State Average	.96
	Bowling Green	.99
	Lexington	.96
	Louisville	.93
	Fort Campbell	.93
	Fort Knox	.99
	Lexington/Bluegrass Army Depot	1.06
	Louisville NAS	.93
Louisiana	State Average	.92
	Alexandria	.87
	New Orleans	.94
	Shreveport	.94
	Barksdale AFB	.94
	England AFB	.87
	Gulf Outport New Orleans	.94
	Louisiana AAP	.94
	Fort Polk	.94
Maine	State Average	.93
	Bangor	.85
	Caribou	.99
	Portland	.94
	Brunswick	.93
	Cutler	.98
	Northern Area	1.17
	Winter Harbor	.98
Maryland	State Average	.97
	Baltimore	.95
	Fredrick	.94
	Lexington Park	1.01
	Aberdeen Proving Ground	.94
	Annapolis	1.03

Table 2-2 (Cont'd)

State	Location	ACF Index
Maryland (cont'd)	Fort Detrick	.94
	Harry Diamond Lab	1.00
	Fort Meade	.95
	Patuxent River Area	1.08
	Fort Ritchie	.90
Massachusetts	State Average	1.10
	Boston	1.13
	Fitchburg	1.08
	Springfield	1.08
	Army Mtls & Mech Research Ctr	1.13
	Fort Devens	1.15
	Natick Research & Development Ctr	1.13
	South Weymouth	1.13
Michigan	State Average	1.06
	Bay City	1.02
	Detroit	1.14
	Marquette	1.03
	Detroit Arsenal	1.14
	Northern Area	1.25
	Republic (Elfcom)	1.10
	Selfridge AFB1.14	
Minnesota	State Average	1.08
	Duluth	1.05
	Minneapolis	1.09
	St. Cloud	1.10
	Twin Cities AAP	1.09
Mississippi	State Average	.84
	Biloxi	.87
	Columbus	.81
	Jackson	.84
	Columbus AFB	.81
	Gulfport Area	.87
	Meridian	.92
Missouri	State Average	.92
	Kansas City	.92
	St. Louis	.99
	Rolla	.85
	Lake City AAP	.93
	Fort Leonard Wood	.91

Table 2-2 (Cont'd)

State	Location	ACF Index
Montana	State Average	1.15
	Billings	1.15
	Butte	1.18
	Great Falls	1.12
	Malmstrom AFB	1.12
Nebraska	State Average	1.03
	Grand Island	1.00
	Lincoln	1.05
	Omaha	1.05
	Offutt AFB	1.05
Nevada	State Average	1.18
	Hawthorne	1.26
	Las Vegas	1.13
	Reno	1.15
	Fallon	1.28
	Hawthorne AAP	1.26
	Nellis AFB	1.13
New Hampshire	State Average	1.09
	Concord	1.06
	Nashua	1.06
	Portsmouth	1.14
	Cold Regions Research Lab	1.17
New Jersey	State Average	1.08
	Newark	1.11
	Red Bank	1.08
	Trenton	1.06
	Bayonne	1.10
	Fort Dix	1.03
	Earle	1.10
	Lakehurst	1.05
	Fort Monmouth	1.09
	Picatinny Arsenal	1.20
New Mexico	State Average	1.03
	Alamogordo	.99
	Albuquerque	1.03
	Gallup	1.06
	Holloman AFB	1.05
	Kirtland AFB	1.03
	White Sands Missile Range	1.09
	Bayonne Mil Ocean Term	1.09
	Fort Wingate	1.06

Table 2-2 (Cont'd)

State	Location	ACF Index
New York	State Average	1.12
	Albany	1.07
	New York City	1.24
	Syracuse	1.05
	Brooklyn	1.24
	Fort Drum	1.18
	Fort Hamilton	1.24
	Seneca Army Depot	1.15
	U.S. Military Academy	1.17
	Watervliet Arsenal	1.07
North Carolina	State Average	.76
	Fayetteville	.76
	Greensboro	.75
	Wilmington	.78
	Fort Bragg	.76
	Camp Lejeune Area	.86
	Cherry Point	.86
	Goldsboro	.77
	Pope AFB	.82
	Seymour AFB	.77
	Sunny Point Mil Ocean Term	.78
North Dakota	State Average	1.03
	Bismarck	1.02
	Grand Forks	.98
	Minot	1.10
	Grand Forks AFB	.98
	Stanley R. Hicklesen CPX	1.03
	Minot AFB	1.12
Ohio	State Average	1.00
	Columbus	1.03
	Dayton	.98
	Youngstown	.99
	Cleveland	.14
	Wright-Patterson AFB	.98
Oklahoma	State Average	.93
	Lawton	.90
	McAlester	.91
	Oklahoma City	.98
	Altus AFB	.94
	Enid	1.01
	McAlester AAP	.91
	Fort Sill	.90

Table 2-2 (Cont'd)

State	Location	ACF Index
Oregon	State Average	1.05
	Pendleton	1.08
	Portland	1.07
	Salem	.99
	Charleston	1.11
	Coos Head	1.08
	Umatilla Army Depot	1.18
Pennsylvania	State Average	1.00
	Harrisburg	.91
	Philadelphia	1.05
	Pittsburgh	1.04
	Carlisle Barracks	.93
	New Cumberland Army Depot	.91
	Fort Indiantown Gap	1.07
	Letterkenny Army Depot	1.07
	Mechanicsburg Area	.91
	Tobyhanna Army Depot	1.14
	Warminster Area	1.04
Rhode Island	State Average	1.11
	Bristol	1.13
	Newport	1.11
	Providence	1.10
	Davisville	1.17
South Carolina	State Average	.82
	Charleston	.81
	Columbia	.82
	Myrtle Beach	.84
	Beaufort Area	.89
	Charleston AFB	.81
	Fort Jackson	.82
	Sumter	.80
South Dakota	State Average	.95
	Aberdeen	.95
	Sioux Falls	.94
	Rapid City	.96
	Ellsworth AFB	.98
Tennessee	State Average	.84
	Chattanooga	.86
	Kingsport	.72
	Memphis	.95
	Arnold AFB	.90
	Milan AAP	.98
	Holston AAP	.71

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Table 2-2 (Cont'd)

State	Location	ACF Index
Texas	State Average	.85
	San Angelo	.76
	San Antonio	.86
	Fort Worth	.93
	Fort Bliss	.96
	Carswell AFB	.93
	Chase Field - Beeville	.97
	Corpus Christi Army Depot	.92
	Corpus Christi	.92
	Dallas	.93
	Dyess AFB	.94
	Fort Hood	.89
	Kingsville	.99
	Red River Army Depot	.78
	Fort Sam Houston	.86
	William Beaumont AMC	.96
	Bergstrom AFB	.95
	Brooks AFB	.86
	Randolph AFB	.86
	Kelly AFB	.86
	Lackland AFB	.86
Utah	State Average	1.03
	Ogden	1.05
	Salt Lake City	1.00
	Tooele	1.06
	Dugway Proving Ground	1.03
	Hill AFB	1.07
	Tooele Army Depot	1.05
Vermont	State Average	.99
	Burlington	1.00
	Montpelier	1.00
	Rutland	.96
Virginia	State Average	.95
	Norfolk	.95
	Radford	.95
	Richmond	.94
	Arlington	1.04
	Arlington Hall Station	1.04
	Arlington National Cemetery	1.04
	Fort Belvoir	1.04
	Cameron Station	1.04
	Dahlgren	1.10
	Fort Eustis	.96

Table 2-2 (Cont'd)

State	Location	ACF Index
Virginia (cont'd)	Humphreys Engineer Center	1.03
	Fort A. P. Hill	.92
	Fort Lee	.93
	Fort Monroe	.94
	Fort Myer	1.03
	Norfolk-Newport News Area	.95
	Fort Pickett	.98
	Quantico	1.03
	Nadford AAP	1.02
	Port Story	.95
	Vint Hill Farms Station	1.08
Washington	State Average	1.09
	Spokane	1.08
	Tacoma	1.07
	Yakima	1.11
	Fairchild AFB	1.13
	Jim Creek	1.34
	Fort Lewis	1.07
	Pacific Beach	1.27
	Puget Sound Area	1.15
	Seattle Area	1.12
	Widbey Island	1.12
	Yakima Firing Center	1.18
West Virginia	State Average	.95
	Bluefield	.92
	Clarksburg	.95
	Charleston	.99
	Sugar Grove	1.15
Wisconsin	State Average	1.06
	LaCrosse	1.04
	Madison	1.02
	Milwaukee	1.13
	Badger AAP	1.06
	Clam Lake	1.20
	Fort McCoy	1.11
Wyoming	State Average	1.08
	Casper	1.07
	Cheyenne	1.10
	Laramie	1.08
	F. F. Warren AFB	1.10

OCONUS Areas

State	Location	AFC Index	Currency Exchange	Remarks
Australia	Australia Average	1.24	1.50	Australian Dollar/U.S. Dollar
	Sydney	1.08		
	Darwin	1.44		
	Perth	1.20		
Azores	Azores Average	1.20	158.00	Portuguese Escudo/U.S. Dollar
Belgium	Belgium Average	1.48	1.14	Belgium Franc/U.S. Dollar
Bermuda	Bermuda Average	1.31		
Canada	Canada Average	.97	1.40	Canadian Dollar/U.S. Dollar
	Toronto	.90		
	St. John's	1.06		
	Vancouver	.94		
Caribbean	West Indies Average	1.16	2.40	Trin. & Tob Dollar/U.S. Dollar
Crete	Crete Average	.84	150.80	Drachma/U.S. Dollar
Cuba	Cuba Average	1.56		
Diego Garcia	Diego Garcia Average	2.57		
Egypt	Egypt Average	1.25	.75	Egyptian Pound/U.S. Dollar
Germany	Germany Average	1.17	2.46	Deutsche Mark/U.S. Dollar
Greece	Greece Average	.81	150.80	Drachma/U.S. Dollar
	Athens	.74		
	Inland	.87		
Greenland	Greenland Average	2.75	8.97	Danish Kroner/U.S. Dollar
Guam	Guam Average	1.94		
Iceland	Iceland Average	2.55	111.00	Krona/U.S. Dollar
Italy	Italy Average	1.08	1678.00	Lira/U.S. Dollar
Japan	Japan Average	1.28	200.55	Yen/U.S. Dollar
	Tokyo	1.20		
	Misana	1.39		
	Okinawa	1.25		
Johnston Atoll	Johnston Atoll Average	2.28		
Korea	Korea Average	.91	850.00	Won/U.S. Dollar
Kwajalein	Kwajalein Average	2.17		
Midway Island	Midway Is. Average	2.26		
Morocco	Morocco Average	1.18	12.50	Dirham/U.S. Dollar
Netherlands	Netherlands Average	1.21	2.77	Guilder/U.S. Dollar
New Zealand	New Zealand Average	1.54	2.10	New Zealand Dollar/U.S. Dollar
Oman	Oman Average	1.21	.38	Rial Omani/U.S. Dollar
Panama	Panama Average	1.22		
Philippines	Philippines Average	.88	18.00	Philippine Pesos/U.S. Dollar
Puerto Rico	Puerto Rico Average	1.05		
	San Juan	.94		
	Inland	1.15		
Spain	Spain Average	.98	154.00	Peseta/U.S. Dollar

Table 2-2 (Cont'd)

State	Location	AFC Index	Currency Exchange	Remarks
Turkey	Turkey Average	.68	569.65	Lira/U.S. Dollar
	Istanbul	.60		
	Inland	.76		
United Kingdom	United Kingdom Average	1.01	.69	British Pound/U.S. Dollar

If material costs are not updated yearly, a material time adjustment factor can be used to bring the existing material costs to current resource costs. This factor will be provided to you by headquarters. If the RMF factors are not updated yearly, an RMF time adjustment will be required to modify the existing RMF values for producing current resource requirements. This factor also will be provided to you by headquarters. Each organization has a unique two-character MRPM organization ID which is used to name files in the PC model (Table 2-1).

The number of lines on the printed page can be entered for your printer. For a normal 11-inch long page with 6 lines printed per inch, the value would be 66. This is not currently used by any program. If you have a 3 megabyte random access memory (RAM) board in your computer you must enter the drive letter so the computer knows where this drive is located. If you do not have the added memory, enter "C". If the unit costs by age are not updated yearly, the unit cost by age adjustment factor can be used to modify the existing values to produce current resource requirements. When initially loading your MRPM, enter the appropriate values for each field in the table.

2.2.1.5 Unit Cost Factors. This table allows you to enter unit costs for groups of facilities, such as all administration facilities.

```
                              UNIT COST FACTORS

                    ID CODE   :    AA
                    UNIT COST S.C.M.          :    1.00
                    A.R.M. FACTOR             :     .85
                    DEFAULT UNIT COST FACTOR:      1.00

                    YEAR         UNIT COST FACTOR
                      1                 .45
                      2                 .50
                      3                 .55
                      4                 .40
                      5                 .60
                      6                 .50
           CUR DN     7                 .70
                      8                 .75
                      9                 .80
                     10                 .95

F1 TOP   F2 BOT   F3 FIND  F4 LIST  F5 EDIT  F6        F7 ADD  F8 DEL   F9        F10EXIT
```

Figure 2-8. Unit Cost Factors

These figures are average Army values calculated by detailed research for approximately 15 percent of the Army inventory. If the occupants of your facilities inflict more wear than average, you can adjust this average using the SCM.

The annual recurring maintenance (ARM) factor is a constant factor that includes all tasks which are neither high-cost nor replacement tasks. The default unit cost factor will preset all 80 unit cost factors to the value given. If it is zero, no changes will be made.

The unit cost factors by age include all high-cost and replacement tasks.

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2.2.1.6 Directory Location. This table allows you to specify the drive location of each of the directories (01 through 99) that are used for facility information storage. The system defaults to the "E" drive.

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□  □                  02              D                                     □  □
□  □                  03              E                                     □  □
□  □                  04              E                                     □  □
□  □                  05              E                                     □  □
□  □                  06              E                                     □  □
□  □                  07              E                                     □  □
□  □          CUR DN  08              E                                     □  □
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F1 TOP  F2 BOT  F3      F4 LIST F5 EDIT F6      F7      F8      F9      F10EXIT
```

Figure 2-9. Directory Location

This table needs to be initialized when you load your system for the first time.

2.2.2 Prediction Models.

```
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-10. Prediction Models Selection Menu

2.2.2.1 Prediction Model Definitions. This table defines all prediction model calculation methods available at your installation to predict resource requirements.

Figure 2-11. Prediction Model Definitions

2.2.2.2 F4C Prediction Model Definitions. This table defines all calculation methods (ALLOW-ABLE MODELS) allowed to be used for an F4C code or a sequential list of F4C codes. The actual method currently being applied to perform prediction calculations (CURRENT PREDICTION MODEL) at your installation can be defined.

Figure 2-12. F4C Prediction Model Definitions

The date of the last calculation by the current prediction model will be entered by the computer as the LAST CALCULATION DATE. The date that this resource prediction data was added to the MRPM system will be entered by the computer as the LAST MERGE DATE.

2.2.2.3 Component Prediction Model Definitions. This table defines all calculation methods allowed to be used for a facility component, such as roofing for a building facility, and the actual method being used to perform prediction calculations.

The MRPM system divides facilities into systems, subsystems, components, and tasks. This numbering system is used by all Department of Defense (DOD) agencies. The Army applies these numbers in the Computer-Aided Cost Estimating System (CACES) for costing new construction facilities. The CACES numbering system will be used by MRPM since it is the only DOD-wide system in existence for facility referencing. The CACES number for the component must be entered. The IFS number for the component is optional and used only for your reference.

Figure 2-13. Component Prediction Model Definitions

2.2.3 Facility Resource Data.

```
Facility Resource Data
Selection Menu


        F4C Resource Description Table
        Component Tree Table
        Basic Task Table
        Unit of Measure
        Trade and Costs
        Task Classification
        Equipment and Costs
        Work Performance Methods
        Total/Partial Summary Tasks
        F4C Description Editor
        Facility Consistency Check



                Updated 12 Sep. 1988

F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-14. Facility Resource Data Selection Menu

2.2.3.1 F4C Resource Description Table. The data in the following four tables has been developed by HQDA. It is average data based on normal operating conditions in the Washington, DC area. Adjustments to consider actual operating conditions can be made through the SCM table described later in this user's manual. You can modify the data to describe your installation's work methods more accurately.

Every type of facility, such as buildings, requires five tables that describe resource requirements. Different tables can be applied for different ranges of years. This screen identifies the names of the tables to be applied for each F4C range:

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE
¤        INSTALLATION LEVEL          ¤
¤        BASIC INFORMATION           ¤
¤     F4C RESOURCE DESCRIPTION        ¤
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAY


AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE
¤  BEGINNING F4C        : 1000000  ¤
¤  ENDING F4C           : 1300000  ¤
¤  TREE-ID TABLE        : BF       ¤
¤  BASIC TASK TABLE     : A5       ¤
¤  TOTAL SUMMARY TABLE  : AT       ¤
¤  PARTIAL SUMMARY TABLE: P5       ¤
¤  UNIT COST ID TABLE   : AA       ¤
¤  BEGINING YEAR        : 0000     ¤
¤  ENDING YEAR          : 9999     ¤
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAY
```

F1 TOP   F2 BOT   F3 FIND   F4 LIST   F5 EDIT   F6   F7 ADD   F8 DEL   F9   F10EXIT

Figure 2-15. F4C Resource Description

1. Component/Task Tree ID Table: every facility type can be divided into systems, subsystems, components, and tasks. Tree tables describing this division have a unique two-character ID and contain all divisions of a facility from the total facility through the tasks at the bottom of the tree.

2. Basic Task Table: all information related to task resources is stored in the basic task tables. A general facility type such as buildings may have one tree table, b several basic task tables (e.g., one for housing, administration, and training). Each table has a unique two-character ID.

3. Total Summary Table: to allow you to model facilities using floor area, systems, or components without going to the individual task level, detailed models of sample facilities at 10 installations were developed. The resources were averaged to produce an Army-wide labor, material, and equipment resource requirement for each system, subsystem, and component of the facility. Buildings may have several summary tables--one for housing, administration, and training. Each table has a unique two-character ID.

4. Partial Summary Table: MRPM gives you the option of keeping track of each individual high-cost task separately and lumping all other tasks into one partial component summary task. This table contains the resources for the sum of all low-cost tasks. Partial summary tables are identical in format to the total summary table.

5. Unit Cost Table: this table contains the annual recurring maintenance factor and the high-cost and replacement task unit cost factors for this facility range.

Paragraph B-6 in Appendix B gives a detailed description of how all four tables work together.

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2.2.3.2 Component Tree Table. This screen allows you to define a component tree table.

Figure 2-16. Component Tree Table

2.2.3.3 Basic Task Table. The first screen allows you to define a basic task table and select the correct table to be edited. Each task table is related to one component tree table and this tree ID must be entered as the first data item.

Figure 2-17. Basic Task Table

When the F6 SELECT key has been entered, the second screen allows you to enter data related to a *specific task*. *Basic tasks are directly related to a component tree table.* Therefore, additions or deletions of tasks that change the component tree will be performed automatically.

When a new task is entered that requires additions to the component tree, the system will ask you to define the component descriptions before you will be asked for task-related information.

2-29

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            LEVEL 1  0000000    TOTAL SUMMARIES
            LEVEL 2  0300000    ROOFING
            LEVEL 3  0310000    ROOFING
            LEVEL 4  0311000    ROOF COVERING
            LEVEL 5  0311100    BUILT-UP ROOFING


                      Command Mode

    (1) Task Id ... [0311101]        Record Count: 1878
    (2) Task Desc.. [DEBRIS REMOVAL BY HAND & VISUAL INSPECT.]
    (3) Unit of Measure Index. [ 2] (square feet            )
    (4) Trade Index........... [17] (Roofing                )
    (5) Task Classification... [ 0] (Description Not Found   )
    (6) High Task Frequency... [     .40] in years
    (7) Average Task Frequency [     .50] in years
    (8) Low Task Frequency.... [     .60] in years
    (9) Labor Requirements.... [   .001404] Labor Hours
    (10) Material Requirements. [   .000000] Cost
    (11) Equipment Requirements [   .001404] Equipment Hours
    (12) Equipment Id......... [  ] (No description          )
F1 Top  F2 Bot  F3 Find F4 List F5 Edit F6      F7 Add  F8 Del  F9     F10Exit
```

Figure 2-18. Basic Task Information File Editor

Several data items in the task are pointers or indexes to other tables that contain common information used by many tasks. The following tables allow you to include common information quickly for reference in the task description.

2.2.3.3.1 Units of Measure. This screen contains a phrase defining each unit of measure used to report component quantities and the ID used in the basic task table.

```
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□          ID      UNIT OF MEASURE                                    □
□                                                                     □
□          1       count                                              □
□          2       square feet                                        □
□          3       linear feet                                        □
□          4       1000 linear feet                                   □
□          5       per circuit                                        □
□          6       acre                                               □
□          7                                                          □
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F1      F2     F3       F4 LIST F5 EDIT F6       F7      F8      F9      F10EXIT
```

Figure 2-19. Unit of Measure List Editor

2.2.3.3.2 Trade and Costs Data. This screen describes each trade or shop and the basic shop effective labor and equipment rates for the Directorate of Engineering and Housing (DEH). The contractor labor and equipment rates are also given.

```
▞▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀▀
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▫              ▫        TRADE AND COSTS DATA            ▫         ▫
▫              ▙▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▟         ▫
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▫  ▫ TRADE INDEX        :  01                                  ▫  ▫
▫  ▫ DESCRIPTION        :  Carpentry                           ▫  ▫
▫  ▫ SHOP CODE          :  S1                                  ▫  ▫
▫  ▫ INHOUSE LABOR      :        16.35   CONTRACT LABOR     :     19.62 ▫  ▫
▫  ▫ INHOUSE EQUIPMENT  :         3.20   CONTRACT EQUIPMENT :      4.80 ▫  ▫
▫  ▙▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▄▟  ▫
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F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6      F7 ADD  F8 DEL  F9       F10EXIT
```

Figure 2-20. Trade and Costs Data

2.2.3.3.3 Task Classification. Tasks can be classified as either high-cost or not high-cost. This screen allows you to identify tasks.

2-31

```
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦E .
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□           ID         DESCRIPTION                                          □
□                                                                          □
□           1          major cost tasks                                    □
□           2                                                              □
□           3                                                              □
□           4                                                              □
□           5                                                              □
□           6                                                              □
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F1       F2        F3        F4 LIST F5 EDIT F6        F7        F8        F9        F10EXIT
```

Figure 2-21. Task Classification Editor

Currently, high-cost tasks are identified with a "1." All other tasks are left blank.

2.2.3.3.4 Special-Purpose Equipment and Costs. This screen allows you to describe and enter the cost per hour for special-purpose equipment that may be required to perform a task. This equipment rate will be used in place of the standard shop equipment truck rate for the shop. The equipment ID is entered in the basic task description and replaces the basic trade equipment rates listed in the trade and costs table.

```
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□                         Equipment Costs                              □
□                                                                     □
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   □                                                             □
   □                        command mode                        □
   □                                                             □
   □ Equipment Code ........[01]                                 □
   □ Equipment Description .[100 Ton Crane]                      □
   □ Equipment Cost ........[  44.44]  Cost/Hour                 □
   □                                                             □
   □                                                             □
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F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6      F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-22. Equipment Costs

2.2.3.3.5 Work Performance Methods. For each basic task table, such as housing, you can define up to six management methods. For example: the first work management method could represent family

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housing maintenance in one area which may be performed entirely by contract. The second work management method could be permanent troop barracks which may be composed of troop labor for interior painting, in-house workforce for interior plumbing, electrical, and heating, ventilating, and air-conditioning (HVAC), and contractors for exterior roof and painting. A third work management method could be training troop barracks where all work is performed by in-house labor.

```
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
     o        eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE           o
     o        o              BASIC TASK FILE SELECTION          o           o
     o        eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV           o
     o                                                                     o
     o  TREE ID      GROUP ID       DESCRIPTION                            o
     o                                                                     o
     o  bf           a5             buildings other than housing          o
     o  BF           B5             ALL BUILDINGS - ZONE 5                 o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o                                                                     o
     o          USE   TO IDENTIFY THE TABLE TO BE SELECTED - THEN HIT F6   o
     eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV
 F1 TOP  F2      F3       F4       F5        F6SELECTF7     F8      F9     F10EXIT
```

Figure 2-23. Basic Task File Selection

The first screen displays the basic task tables currently defined in the system. You can select the appropriate basic task table to be edited and choose three different editing operations:

```
 o
 o            Work Performance Main Selection Menu
 o
 o
 o
 o
 o            1 - Define Methods
 o
 o            2 - Define all work types
 o
 o            3 - Define individual tasks
 o
 o            0 - Return to previous menu
 o
 o
 o
 o
 o
 o            Selection            0
 o
 F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-24. Work Performance Main Selection Menu

2-33

(1) Define Work Management Methods.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲C
▪                                                                     ▫
▪            Work Performance Method - Define Methods                  ▫
▪                                                                     ▫
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▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫            Method 1 :minor-inhouse,major-contract                   ▫
▫            Method 2 :all tasks by contract                          ▫
▪            Method 3 :Barracks:troop,inhouse,contrct                 ▪
▪            Method 4 :Family Housing:selfhelp,IH,CNT                  ▫
▫            Method 5 :                                               ▫
▫            Method 6 :                                               ▫
▫                                                                     ▫
▫                                                                     ▫
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F1      F2      F3      F4      F5 EDIT F6BLANK F7      F8      F9 SAVE F10EXIT
```

Figure 2-25. Work Performance Method--Define Methods

This screen allows you to define up to six different work management methods (family housing, training) for each basic task table.

(2) Define All Work Types. There are four possible labor types for performing each task:

1. In-house work force (I)
2. Contract work force (C)
3. Self-help program (S)
4. Troop work force (T).

A "no change" means that the computer will not change the current definition for any task.

You must define how each task will be performed within each work management method. Usually, one of the labor types would be used for all or most of the tasks.

```
*****************************************************************************
*                                                                          *
*          Reset All Work Performance Method Indexes                       *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*          Method 1 : minor-inhouse,major-contract    T TROOP             *
*          Method 2 : all tasks by contract           I INHOUSE           *
*          Method 3 : Barracks:troop,inhouse,contrct  C CONTRACT          *
*          Method 4 : Family Housing:selfhelp,IH,CNT  S SELF HELP         *
*          Method 5 :                                 * no change         *
*          Method 6 :                                 * no change         *
*                                                                          *
*                    Hit space to Toggle -  to move                       *
*                    SAVE (F9) will perform all changes to tasks          *
*****************************************************************************
 F1      F2      F3      F4      F5      F6      F7      F8      F9 SAVE F10EXIT
```

Figure 2-26. Reset All Work Performance Method Indexes

This screen allows you to set all tasks within each of one to all six work management methods to one labor type (Troop, Contractor, In-house, Self-help, or unchanged) by using a selection table displayed on the screen. Once the selection table is set correctly, you can request that MRPM update the basic task data base.

(3) Define Individual Tasks.

```
*****************************************************************************
*          Task Work Performance Methods - Entry & Editing      11/14/88  *
*                                                                          *
*****************************************************************************
                              Change Mode
             Task Number.......... 1131412
             Task Description ...  REPLACE LAMP


        (1) minor-inhouse,major-contrac = [I]   Inhouse
        (2) all tasks by contract       = [C]   Contract
        (3) Barracks:troop,inhouse,cont = [T]   Troop
        (4) Family Housing:selfhelp,IH, = [S]   Self Help
        (5)                             = [I]   Inhouse
        (6)                             = [I]   Inhouse


 F1      F2      F3      F4      F5      F6      F7      F8      F9 SAVE F10EXIT
```

Figure 2-27. Task Work Performance Methods--Entry and Editing

This screen allows you to edit one task at a time and set the six work management labor types for each individual task.

2.2.3.4 Total/Partial Summary Tasks. Each summary table is related to one component tree table and this tree ID must be entered as the first data item. MRPM allows you to model facilities with less detail than the task level. Facilities on 10 installations were modeled in detail at the task level. The resulting labor hours, material dollars, and equipment hour resources were averaged to obtain the average resource requirements for a typical Army facility. This Army average summary data was calculated for the total facility and for every system, subsystem, and component of the facility. The results are stored in the total summary tables. The partial task summary tables contain the combined resource requirements for all low-cost tasks at the component level.

Figure 2-28. Total/Partial Summary Tasks

The first screen allows you to define and SELECT any summary task table for editing.

Figure 2-29. Basic Task Summary Editor

The second screen allows you to edit the individual task summaries. You can define labor, material, and equipment resources for any time period from 1 to 80 years in duration.

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2.2.3.5 F4C Description Editor.

```
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□           F4C CODE: 1110000              □
□                                          □
□  DESCRIPTION: AIRFIELD PAVEMENTS- RUNWAYS □
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥


F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6     F7      F8      F9      F10EXIT
```

Figure 2-30. F4C Description Editor

This screen allows you to change the descriptions for each F4C code.

2.2.3.6 Facility Consistency Check.

```
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦£
□               FACILITY CONSISTENCY CHECK                □
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦£
□                                                        □
□                                                        □
□                                                        □
□                                                        □
□        1) THIS PROGRAM WILL CHECK THE FACILITY FILES    □
□           AND RELATED FILES.                            □
□                                                        □
□        2) PLEASE TURN ON PRINTER.                       □
□                                                        □
□        3) PLEASE ENTER DIRECTORY NAME                   □
□                                                        □
□           : \DATA\LEARN                                 □
□                                                        □
□                                                        □
□                                                        □
□                                                        □
□                                                        □
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F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-31. Facility Consistency Check.

This function allows you to check to ensure that you have a complete data base. The system will go through your General Facility Information table and check to make sure all facilities are in the proper directory.

2.2.4 Reference Data for Individual Facilities.

```
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□              ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦£                    ■
□              □    Data For Individual Facilities   □               □
□              □         Selection Menu              □               □
□              ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥                    □
□                                                                    □
□                                                                    ■
□              Area Identification                                   □
□                                                                    □
□              Subinstallation Identification                        ■
□                                                                    □
□              Travel Zones                                          □
□                                                                    □
□              Special Condition Multiplier                          □
□                                                                    □
□              Financiel Management                                  □
□                                                                    □
□              Facility Funding Profile                              □
□                                                                    ■
□                                                                    □
□                    Updated 24 June 1988                            □
□                                                                    □
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-32. Reference Data for Facilities Selection Menu

2.2.4.1 Subinstallation and Area Identification.

```
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□              □    SUBINSTALLATION DESCRIPTIONS     □               ■
□              ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥                    □
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□         □ □                                □ □                     □
□         □ □   SUBINSTALLATION ID 01        □ □                     □
□         □ □                                □ □                     □
□         □ □   DESCRIPTION North Sector     □ □                     ■
□         □ □                                □ □                     ■
□         □ □                                □ □                     ■
□         □ ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥ □                     ■
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F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6    F7 ADD  F8 DEL  F9    F10EXIT
```

Figure 2-33. Subinstallation Descriptions

2-38

```
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▪        ▪  INSTALLATION AREA DESCRIPTIONS    ▫                       ▪
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▫   ▫ ▫                                              ▫ ▫              ▫
▫   ▫ ▫   AREA ID 01                                 ▫ ▫              ▫
▫   ▫ ▫   SUB-INSTALLATION ID  01                    ▫ ▫              ▫
▫   ▫ ▫   DESCRIPTION SALERNO CIRCLE                 ▫ ▫              ▫
▫   ▫ ▫                                              ▫ ▫              ▫
▫   ▫ ▫                                              ▫ ▫              ▫
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F1 TOP  F2 BOT  F3 FIND  F4 LIST F5 EDIT F6       F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-34. Installation Area Descriptions

You can divide your installation into subinstallations (Tank Command, Communications Command) and subinstallations into areas (Tank Command Barracks, Tank Command Training Ranges). Each area must have its own unique ID; for example, subinstallation 1 can be composed of areas 1 through 5, and subinstallation 2 can be composed of areas 6 through 10. The two screens allow you to define your subinstallations and areas within the installation or subinstallation.

2.2.4.2 Travel Zones. This screen allows you to define the labor and equipment hour multiplication factor for each travel zone (Table 2-3). Standard EPS travel zones 1 through 20 have been defined. Factors are determined as follows:

Factor = 8 hours per day/(8 hours - No. round trips x Round trip time)

Zones 1 through 10 assume two round trips per day.

Zones 11 through 20 assume one round trip per day.

Zones 21 through 25 are for installation use for highly secure areas that take longer to enter than the standard EPS travel zones.

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Table 2-3. Travel Zones and Times

Travel Zone	Time-Round Trip Shop to/from Facility (hrs)	Trips per Day	Multiplication Factor
1	.16	2	1.04
2	.25	2	1.07
3	.35	2	1.10
4	.45	2	1.13
5	.55	2	1.16
6	.65	2	1.19
7	.75	2	1.23
8	.85	2	1.27
9	1.00	2	1.33
10	1.20	2	1.43
11	1.40	1	1.21
12	1.60	1	1.25
13	1.80	1	1.29
14	2.00	1	1.33
15	2.20	1	1.38
16	2.40	1	1.43
17	2.60	1	1.48
18	2.80	1	1.54
19	3.00	1	1.60
20	3.20	1	1.67


```
                         TRAVEL ZONE TABLE




              TRAVEL ZONE : 1

              TRAVEL TIME : 1.04



 F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6      F7      F8      F9      F10EXIT
```

Figure 2-35. Travel Time Data

2.2.4.3 Special Condition Multipliers. The average resources given in the basic task tables and the summary task tables are based on normal occupant treatment of facilities, a standard level of maintenance,

2-40

and mid-United States climatic conditions. These conditions should be adjusted to consider the actual effects of the occupant, weather, maintenance practices, and other factors.

```
┌─────────────────────────────────────────────────────────────────┐
│           ┌─────────────────────────────────────────┐           │
│           │ □ SPECIAL CONDITION MULTIPLIER DEFINITIONS □         │
│           └─────────────────────────────────────────┘           │
│                                                                   │
│                                                                   │
│                                                                   │
│                                                                   │
│           ┌─────────────────────────────────────────┐           │
│           │ ┌─────────────────────────────────────┐ □           │
│           │ □                                     □ □           │
│           │ □ SCM ID: 01                          □ □           │
│           │ □                                     □ □           │
│           │ □ DESCRIPTION:                        □ □           │
│           │ □ Normal Conditions                   □ □           │
│           │ □                                     □ □           │
│           │ └─────────────────────────────────────┘ □           │
│           └─────────────────────────────────────────┘           │
│                                                                   │
│             PAGE DOWN: Next Page   PAGE UP: Previous Page         │
└───────────────────────────────────────────────────────────────────┘
 F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6 SELECT F7 ADD  F8 DEL  F9      F10 EXIT
```

Figure 2-36. Special Condition Multiplier Definitions

The first screen allows you to define a group of special conditions (e.g., initial construction, current maintenance practices, weather, and occupant conditions), on your installation. Above-average construction, average maintenance practices, weather-location (hilltops, valleys), and occupant (task unit, training unit, permanent unit) can be selected. You can select one group for editing. The next set of four screens presents questions describing the actual conditions for this set. Climatic zones are shown in Table 2-1.

```
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¤         SPECIAL CONDITION MULTIPLIERS              (Page 1 of 4)     ▫
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥
             Enter Installation Zone.................[05]
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-37. Special Condition Multiplier, Page 1

```
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦£
¤         SPECIAL CONDITION MULTIPLIERS              (Page 1 of 4)     ▫
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥
             Enter Installation Zone.................[ 5]
             Zone Related Multipliers  For Zone 05

             Extreme Cold..... ....................[1.00]
             Freeze-Thaw..........................[1.00]


             High Intermittent Winds...............[No ]
                  Yes (1.01)  No (1.00)

             Significant Hail Damage...............[No ]
                  Yes (1.01)   No (1.00)

             Sand Storms.....[Mild    ] (Once or more/50 years)
                                    Severe  Moderate    Mild
                  Once or more/year    1.10    1.06     1.03
                  Once or more/decade  1.07    1.05     1.02
                  Once or more/25 years 1.05   1.03     1.01
                  Once or more/50 years 1.03   1.01     1.00
        PAGE UP for previous page       PAGE DOWN for next page
              ARROW KEYS to move ENTER to answer
F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-38. Special Condition Multiplier, Page 2

```
***********************************************************
*                SPECIAL CONDITION MULTIPLIERS      (Page 2 of 4)   *
***********************************************************
                    Maintenance Program..........[Average      ]
                         Superior       (0.93)
                         Above Average (0.96)
                       Average        (1.00)
                         Below Average (1.04)
                         Inadequate    (1.07)

                    Original Workmanship.........[Average      ]
                         Excellent      (0.90)
                         Above Average (0.95)
                         Average        (1.00)
                         Below Average (1.05)
                         Poor          (1.10)

                    Is Installation on Pacific Northwest Coast
                    or Pensacola, Fla. (Precip > 60 in/year)? ........[No ]
                         Yes      No


         PAGE UP for previous page        PAGE DOWN for next page
                    ARROW KEYS to move ENTER to answer
   F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-39. Special Condition Multiplier, Page 3


```
***********************************************************
*                SPECIAL CONDITION MULTIPLIERS      (Page 3 of 4)   *
***********************************************************
                    Is installation located in an arid climate?
                    (Precipitation < 10 inch/year)......[No ]
                         Yes (1.01)    No (1.00)

                    Occupant Effects.............***Choose One From Each Row***

                         Excessive  Moderate  Modest  Not Applicable
            Hard use       1.06      1.03      1.01    1.00..[Not Applicable]
            Abuse          1.08      1.05      1.02    1.00..[Not Applicable]
            Vandalism      1.10      1.07      1.03    1.00..[Not Applicable]

                    Special Exterior Wall Multiplier....[Normal                ]
                         Normal                     (1.00)
                         IFS Component Calculations (1.05)



         PAGE UP for previous page        PAGE DOWN for next page
                    ARROW KEYS to move ENTER to answer
   F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-40. Special Condition Multiplier, Page 4

2-43

```
♦♦cccccccccccccc♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦cccccccccccc£
□           SPECIAL CONDITION MULTIPLIERS              (Page 4 of 4)   □
□                      SUMMARY                                         □
♦cccccccccccc♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦cccccccccccccccccc♥
□                                                                      □
□    Extreme Cold......................[1.00]                          □
□    Freeze-Thaw Factor................[1.00]                          □
□    High Precipitation (concrete)......[1.00]  (No )                  □
□    High Precipitation (wood)..........[1.00]  (No )                  □
□    Extreme Aridity...................[1.00]  (   )                   □
□    High Intermittent Winds............[1.00]  (   )                  □
□    Hail Damage.......................[1.00]  (   )                   □
□    Sand Storms.......................[1.00]  (           )           □
□                                              (              )        □
□    Maintenance Programs...............[1.00]  (            )         □
□    Original Workmanship...............[1.00]  (            )         □
□    Occupant Effects..................[1.00]                          □
□         Hard Use....[1.00]  (              )                         □
□         Abuse.......[1.00]  (              )                         □
□         Vandalism...[1.00]  (              )                         □
□    Special Exterior Wall Multiplier...[1.00]  (                   )  □
□                                                                      □
□                                                                      □
♦cccccccccccc♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦cccccccccccccccccc♥
F1      F2      F3      F4      F5 EDIT F6       F7      F8      F9 SAVE F10EXIT
```

Figure 2-41. Special Condition Multiplier, Page 5

```
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□           SPECIAL CONDITION MULTIPLIERS              (Page 4 of 4)   ■
□                      SUMMARY                                         □
♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥
□                                                                      ■
■ CACES NO.     MULTIPLIER          CACES NO.      MULTIPLIER          ■
□                                                                      ■
■ 0000000        1.00               0415F00         1.00              ■
■ 0300000        1.00               0415G00         1.00              ■
■ 0400000        1.00               0415H00         1.00              ■
■ 0410000        1.00               0420000         1.00              ■
■ 0415400        1.00               0430000         1.00              ■
■ 0415500        1.00               0500000         1.00              ■
■ 0415800        1.00               0530000         1.00              ■
■ 0415900        1.00               0540000         1.00              ■
■ 0415A00        1.00               0600000         1.00              ■
■ 0415E00        1.00                                                 ■
□                                                                      ■
□                                                                      ■
■                                                                      ■
■                                                                      ■
■                                                                      ■
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-42. Special Condition Multiplier, Summary

2.2.4.4 Financial Management. This screen allows you to select one of four tables for editing:

```
Financial Management
Selection Menu



APPROPRIATION CODE TABLE

AMS FUNCTIONAL GROUP CODES

F4C TO AMS CONVERSION TABLE

STANDARD REPORT TABLE




Updated 1 September 87
```

Figure 2-43. Financial Management Menu

2.2.4.4.1 Appropriations Code Table.

```
Command mode          APPROPRIATIONS CODE TABLE

APR ID   APR CODE #           APR DESCRIPTION

 01      RPMA 1       Real Property Maintenance Account-1
 02      RPMA 2       Real Property maintenance Account-2
```

F1 TOP F2 BOT F3   F4   F5 EDIT F6   F7 ADD F8 DEL F9   F10EXIT

Figure 2-44. Appropriations Code Table

This table contains an appropriation ID (which is used in the MRPM facility funding profile), an appropriation number, and a description for reference.

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2.2.4.4.2 AMS Functional Group Codes.

```
Command mode                    AMS FUNCTIONAL GROUP CODES
**********I*********************I***********************************************E
  oAMS ID* AMS CODE #  *           AMS DESCRIPTION                            o
  U*****************************************************************************R
    o  01  *  K0000     *  MAINTENANCE OF REAL PROPERTY                        o
    o  02  *  K1000     *  UTILITIES SYSTEMS                                   o
    o  03  *  K1100     *  WATER SYSTEMS                                       o
    o  04  *  K1110     *  TREATMENT AND FILTRATION                            o
    o  05  *  K1111     *  PLANTS                                              o
    o  06  *  K1112     *  SOURCE                                              o
    o  07  *  K1120     *  WELLS                                               o
    o  08  *  K1130     *  DISTRIBUTION SYSTEMS                                o
    o  09  *  K1131     *  MAINS AND LATERALS                                  o
    o  10  *  K1132     *  PUMPING STATIONS                                    o
    o  11  *  K1133     *  STORAGE                                             o
    o  12  *  K1200     *  SEWER SYSTEMS                                       o
    o  13  *  K1210     *  TREATMENT PLANTS                                    o
    o  14  *  K1211     *  PRIMARY PLANT                                       o
    o  15  *  K1212     *  SECONDARY PLANT                                     o
  **********************************************************************************
```

```
F1 TOP  F2 BOT  F3      F4      F5 EDIT F6      F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-45. AMS Functional Group Codes

This table contains an AMS ID (which is used in the MRPM facility funding profile), an AMS number, and a description for reference.

2.2.4.4.3 F4C to AMS Conversion Table.

```
                    F4C TO AMS CONVERSION TABLE
***********I*******************I******************I*****************E
  o F4C CODE  *  AMS NUMBER  o F4C CODE  *  AMS NUMBER  o
  U**********************************************************************R
    o  1110000  *  K5210     o  1132100  *  K5220     o
    o  1111000  *  K5210     o  1133000  *  K5210     o
    o  1111100  *  K5220     .  o  1133100  *  K5210     o
    o  1112000  *  K5210     o  1133200  *  K5210     o
    o  1112100  *  K5220     o  1133300  *  K5220     o
    o  1113000  *  K5210     o  1133400  *  K5220     o
    o  1113100  *  K5220     o  1133500  *  K5220     o
    o  1114000  *  K5210     o  1134000  *  K5210     o
    o  1114100  *  K5220     o  1134100  *  K5220     o
    o  1121000  *  K5210     o  1135000  *  K5210     o
    o  1121100  *  K5220     o  1135100  *  K5220     o
    o  1122000  *  K5210     o  1136000  *  K5210     o
    o  1131000  *  K5210     o  1136100  *  K5220     o
    o  1131100  *  K5220     o  1137000  *  K5210     o
    o  1132000  *  K5210     o  1137100  *  K5220     o
  **********************************************************************
```

```
F1 TOP  F2 BOT  F3 FIND F4      F5 EDIT F6      F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-46. F4C to AMS Conversion Table

This table lists every F4C code and the appropriate AMS code.

2-46

2.2.4.4 Standard Report Table.

```
Command mode              STANDARD REPORT TABLE
 &&&&&&&1&&&&&&&&&&&&&&&&U&&&&&&1&&&&&&&&&&&&&&&E
 □APR ID*    APR CODE #   □AMS ID*   AMS CODE #  □
 U&&&&&&&&&&&&&&&&&&&&&&&b&&&&&&&&&&&&&&&&&&&&&&A
 □  01    *  RPMA 1    □  69   *  K2600       □
 □  01    *  RPMA 1    □  70   *  K2700       □
 □  01    *  RPMA 1    □  71   *  K2800       □
 □  01    *  RPMA 1    □  72   *  K2910       □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *          ·□       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 □         *           □       *             □
 &&&&&&&&U&&&&&&&&&&&&&&&&b&&&&&&&U&&&&&&&&&&&&&&V
```

F1 TOP F2 BOT F3   F4   F5   F6   F7 ADD F8 DEL F9   F10EXIT

Figure 2-47. Standard Appropriations/AMS Report Formats

This table contains the complete list of all standard reports that must be sent for review and approval.

2.2.4.5 Facility Funding Profile. A facility, such as a building, is often shared by several different organizations and maintenance must be divided among several appropriations.

```
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&E
□Command Mode                                                   ■
□                                                               ■
□   FACILITY FUNDING PROFILE ID# = 01                           □
□                                                               □
□   PROFILE DESCRIPTION [Test                          ]        □
□                                                               □
□   LABOR & MATERIALS APPROPRIATION BREAKDOWN                   □
□   APR ID = [01]   Real Property Maintenance Account-1    PERCENT = [100]  □
□                                                               □
□   EQUIPMENT APPROPRIATIONS BREAKDOWN                          □
□   APR ID = [01]   Real Property Maintenance Account-1    PERCENT = [100]  □
□                                                               □
□                                                               □
□                                                               □
□                                                               □
□                                                               □
□                                                               □
□                                                               ■
□                                                               ■
■                                                               ■
□                                                               □
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&V
F1 TOP   F2 BOT   F3 FIND F4 LIST F5 EDIT F6      F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-48. Facility Funding Profile

There are two ways to model the facility:

(1) Total facility model - The facility is modeled as built and the correct funding percentages are listed in the table.

(2) Subfacility modeling - The facility is divided subjectively into a part for each using organization and all costs for the subfacility are charged to the using organization.

This screen allows you to define the appropriation IDs from the appropriations table and the percentages to ensure a correct prediction by appropriation. Costs can be divided among different appropriations in two ways:

(1) Labor and materials

(2) Equipment - may not be charged directly to a project account but may be in a special account.

2.3 Facility Information.

2.3.1 Facility Information Selection Menu. This menu allows you to perform all activities related directly to an individual facility or group of facilities. The following functions are available:

```
┌──────────────────────────────────────────────────────────────────┐
│   □         ┌────────────────────────────────────────┐        □   │
│   □         │       Facility Information          □   │        □   │
│   □         │          Selection Menu             □   │        □   │
│   □         └────────────────────────────────────────┘        □   │
│   □                                                           □   │
│   □                                                           □   │
│   □                                                           □   │
│   □         Resource Calculation                              □   │
│   □         Display Resources                                 □   │
│   □         Facility Component Quantity                       □   │
│   □         General Information                               □   │
│   □         Facility Reports                                  □   │
│   □         Query                                             □   │
│   □         Model Facility                                    □   │
│   □         Copy Facility                                     □   │
│   □         Global Change to Components                       □   │
│   □         Fac Group to Dwelling Unit                        □   │
│   □         Delete Resource Files                             □   │
│   □         Move Facility to New Directory                    □   │
│   □         Delete Resource Total File                        □   │
│   □                                                           □   │
│   □              Updated 12 Sep. 1988                         □   │
└──────────────────────────────────────────────────────────────────┘
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-49. Facility Information Selection Menu

1. Resource Calculation. This selection allows you to perform a resource prediction for individual facilities by specifying: (1) the facility ID for one facility, (2) the range of facility IDs to be calculated as individual facilities, and (3) the range of F4C codes to be calculated as individual facilities. One resource prediction will be calculated for each facility within the range specified.

2. Display Resources. This selection allows you to view resource prediction values on the screen in both tabular and graphic format.

3. Facility Component Quantity (and Dates). This selection allows you to record changes in the component quantities, the date that each task was last completed, and the date that the task will be scheduled in the future.

4. General Information. This selection allows you to enter the basic information describing each facility.

5. Facility Reports. This selection allows you to obtain several different reports on your printer.

6. Query (Questions and Answers). This selection allows you to ask questions using data in the data base.

7. Model a Facility. This selection allows you to prepare a model of the components within a facility.

8. Copy a Facility. This selection allows you to copy an existing facility to form a new facility under a new ID.

9. Global Change to Components. This selection allows you to change one component to another component (i.e., wood siding to steel siding).

10. Facility Group to Dwelling Unit. This selection allows you to divide a group of facilities into separate facilities, and a single facility into dwelling units such as apartments.

11. Delete Resource Files. This selection allows you to remove all resource summary files from a directory.

12. Move to New Directory. This selection allows you to move facilities from one directory to another.

13. Delete Resource Total File. This selection allows you to delete all of the calculations you have stored in the total summary table.

2.3.2   Resource Calculation Menu.   This screen allows you to perform resource prediction calculations for individual facilities.

Figure 2-50. Resource Calculation

The screen is divided into four parts:

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1. TOP BOX. The top portion of the screen displays the current date, time, and MRPM program revision number (e.g., 6.40). The rest of the information in the top portion is defined in the reports period menu (basic information, general information, report period) and is displayed to refresh your memory. This information includes the name of the installation, the beginning and ending report period years, a material location adjustment factor, a material time adjustment (or cost escalation) factor, and an RMF time adjustment (or cost escalation) factor. If this information is not correct, go to the report periods menu and correct it.

2. MIDDLE BOX. The middle portion of the screen contains a list of instructions that can be executed. Use the arrow keys to highlight the correct instruction and press the enter key to make this selection.

a. Set Run Parameters. When this instruction is selected, the system moves to the bottom box and allows you to set the first five rows of information. Use the space bar to see the various options available for each row and select the correct option for your application. Use your arrow keys to move up and down the rows. Use the F10 key to return to the middle portion of the menu.

b. Set Ranges. You can select a group of facilities for calculations by any one of the five methods shown in the FACILITY SELECTION row in the bottom portion of the screen. You can also limit your calculations to the facilities located in a sequential group of directories. This Set Ranges command allows you to define the range and directories to be used during calculation. Control is passed to the last line of the bottom box. When all valid information has been entered, the F10 key returns you to the middle portion of the screen.

c. Set Funding Report Parameters. (NOT IMPLEMENTED) - This command allows you to generate one funding report for each subdirectory. The funding report file will be generated as soon as all facilities in the subdirectory have had calculations performed.

```
░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░
▪      REPORT INFORMATION      ▫
░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░▼
```

```
░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░£
▫        1 - REPORTS FROM STANDARD APR/AMS COMBINATIONS        ▫
▫                                                              ▫
▫        2 - REPORTS FROM SPECIFIC APR/AMS COMBINATIONS        ▫
▫                                                              ▫
▫                      CHOOSE 1 or 2 :                         ▫
░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░░▼
```

HIT F10 KEY TO EXIT

Figure 2-51. Report Information

When the standard report command is selected, a new screen is displayed. The Army has several standard Appropriation/AMS code reports. One of the standard reports can be selected from the following screen:

```
                STANDARD APPROP./AMS REPORT FORMATS
        ++++++++!+++++++++++++++u+++++!++++++++++++++++{
        ·APR ID°   APR CODE #   ·AMS ID°   AMS CODE #   ·
        ·aaaaaaé+aaaaaaaaaaaaaaaaaa¢aaaaaaaaaaaaaaa^
        ·  01  ·  RPMA 1    ·  07  ·  K2600    ·
        ·  01  ·  RPMA 1    ·  08  ·  K2700    ·
        ·  01  ·  RPMA 1    ·  10  ·  K2910    ·
        ·  02  ·  RPMA 2    ·  08  ·  K2700    ·
        ·  02  ·  RPMA 2    ·  10  ·  K2910    ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·      ·            ·      ·           ·
        ·+++++++u+++++++++++++++o+++++u+++++++++++++++·

        USE CURSOR AND PAGING CONTROLS TO POINT TO FORMAT DESIRED
                 HIT ENTER KEY TO MAKE SELECTION
                      HIT F10 KEY TO EXIT
```

Figure 2-52. Standard Appropriations/AMS Report Formats

You can form your own report by selecting both the appropriation and AMS code from the following two screens:

```
                APPROPRIATIONS CODE TABLE
        ++++++++!+++++++++++++!++++++++++++++++++++++++++++++++++£
        ·APR ID° APR CODE #  ·           APR DESCRIPTION          ·
        ·aaaaaáaeaaaaaaaaaaaaaáé+aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaR
        · RP  ·  RPMA 1    ·  Real Property Maintenance Account·1  ·
        · RP  ·  RPMA 2    ·  Real Property maintenance Account·2  ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·             .                         ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·     ·            ·                                       ·
        ·+++++++u+++++++++++++++u+++++++++++++++++++++++++++++++++++++·

        USE CURSOR AND PAGE CONTROL TO PICK NUMBER DESIRED
                 HIT ENTER KEY TO MAKE SELECTION
                      HIT F10 KEY TO EXIT
```

Figure 2-53. Appropriations Code Table

```
                    AMS FUNCTIONAL GROUP CODES
♦♦♦♦♦♦♦!♦♦♦♦♦♦♦♦♦♦♦♦♦♦!♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦[
  AMS ID° AMS CODE #  •          AMS DESCRIPTION                         □
Ú♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦R
   ■  01  •  K2100     •  TRAINING                                       □
   □  02  •  K2200     •  MAINTENANCE AND PRODUCTION                     □
   □  03  •  K2300     •  RESEARCH, DEVELOPMENT AND TEST                 □
   □  04  •  K2410     •  AMMUNITION AND STORAGE                         □
   □  05  •  K2420     •  OTHER COVERED STORAGE                          □
   □  06  •  K2500     •  HOSPITAL AND MEDICAL                           □
   □  07  •  K2600     •  ADMINISTRATION                                 □
   □  08  •  K2700     •  BACHELOR HOUSING                               □
   □  09  •  K2800     •  COMMUNITY                                      □
   □  10  •  K2910     •  FAMILY HOUSING                                 □
   □  11  •  K2920     •  OPERATIONAL BUILDINGS                          □
   □  12  •  K2930     •  UTILITY PLANT BUILDINGS                        □
   □  13  •  K2990     •  OTHER BUILDINGS                                □
   ■  14  •  K1211     •  PRIMARY PLANTS                                 □
 ' □  15  •  K1212     •  SECONDARY PLANTS                               □
♦♦♦♦♦♦♦♦U♦♦♦♦♦♦♦♦♦♦♦♦♦♦U♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦
     USE CURSOR AND PAGE CONTROL TO PICK NUMBER DESIRED
              HIT ENTER KEY TO MAKE SELECTION
                   HIT F10 KEY TO EXIT
```

Figure 2-54. AMS Functional Group Codes

d. Accept Values and Start Run. This command allows you to start the calculation process based on the information already selected. The system will move from subdirectory to subdirectory, performing calculations as specified. Old resource summary tables will be deleted and replaced with the newly calculated results.

IF YOU ARE USING THE BASE FACILITY CONCEPT, YOU MUST RECALCULATE THE BASE FACILITIES BEFORE PERFORMING OTHER CALCULATIONS. BASE FACILITIES CAN BE CALCULATED BY USING THE F4C RANGE [3] FACILITY SELECTION OF 0000000-0000000.

The screen will display the facility ID for each facility as the calculations are being performed. A dated and timed list of facilities processed and problems encountered will be printed as a permanent record of the calculation.

Calculations proceed as follows:

(1) The system moves from one subdirectory to the next, processing all facilities within a subdirectory.

(2) Within each subdirectory:

(a) The system finds the next facility to be processed.

(b) The system deletes the old resource summary file.

(c) The system performs the calculation of the new resource summary file.

(d) When all facilities have been processed, the system will generate a funding report if requested.

(c) The system will then back up the resource summary files to tape if requested.

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(f) The system will save or delete the resource summary files as directed.

The calculation times vary, depending on the type of computer system. Times given below are based on the standard MRPM hardware. Calculation times also vary for each MODELING METHOD:

(1) As entered - one facility per minute.

(2) Gross floor area only - eight facilities per minute.

(3) RMF - 12 facilities per minute.

3. BOTTOM BOX. The bottom portion of the screen shows the calculation request information.

a. Modeling Method. You can select one of five different modeling methods by pressing the space bar:

(1) Components. Before performing calculations, you have defined the components that comprise each facility through the model facility menu. With this modeling method, three different levels of calculations can be performed as defined in the next section. You must define a CALCULATION METHOD and a TASK DISTRIBUTION METHOD if calculation method "all tasks" is entered.

(2) Unit Cost by Age. The system will use the gross floor area listed in row 8 of the general facility information table and apply the annual recurring maintenance (ARM) factor and the major cost task and replacement task (MRT) factor. THE CALCULATION METHOD and TASK DISTRIBUTION METHOD are not. required.

(3) Gross Floor Area Only. The system will use the gross floor area listed in row 8 of the general facility information table and apply the average Army summary resource requirements with your labor, material, and equipment rates. THE CALCULATION METHOD and TASK DISTRIBUTION METHOD are not required.

The system will take the year of construction (i.e., 1942) and the report period dates (e.g., 1986 through 1995) and convert the report years to facility ages (1986: Age = 44; 1995: Age X = 53). The system will go to the correct total resource summary table and read the labor hours (LH), material cost (MC), and equipment hours (EH) resource requirements per unit of measure for the required ages (e.g., Age = 44, LH = 0.069 hrs/sq ft, MC = $0.76/sq ft, EH = 0.037 hrs/sq ft). The system will go to the Trade Cost Table and read the carpentry shop rates for labor and equipment (L = $10/hr, E = $2/hr). Total resource requirements will be produced by multiplying the facility gross square feet of floor area (e.g., 2000 sq ft) by the average resource requirement (e.g., 0.069 hr/sq ft) or 138 hr. Dollar costs are produced by multiplying total resources (e.g., 138 hr) by the labor rate (e.g., $10/hr) or $1380.

(4) Recurring Maintenance Factors (RMF). The system will use the gross floor area listed in the general facility information table and apply the recurring maintenance factors for the installation (the average of the last several year's expenditures). THE CALCULATION METHOD and TASK DISTRIBU-TION METHOD are not required.

The system will take the year of construction (e.g., 1942) and the report period dates (e.g., 1986 through 1995) and convert the report years to facility ages (1986: Age = 44; 1995: Age = 53). The system will go to the RMF table and read the total cost per unit of measure for the required ages (e.g.,

Age = 44, total cost = $0.76/sq ft). Total dollar costs are produced by multiplying total resources per unit of measure (e.g., $0.76/sq ft) by the gross square feet of floor area (e.g., 2000 sq ft) or $1520.

(5) Method Specified in the Facility Information Table. For each facility or facility group, the system will use the modeling method that you have specified in the basic facility information table, item number 16. The CALCULATION METHOD and TASK DISTRIBUTION METHOD are required.

(6) Only Facilities Using RMF. This option will calculate only the facilities that have RMF marketed in the calculation modeling ID in the General Facility information.

(7) F4C Summary Date. This option will calculate only the facilities that have their unit of measure reported in the technical data report.

(8) Summary and Components. This option uses only the information stored in the general facility information table. The system uses the square footage of floor area and the total unit resources summary table to produce resources for the total facility and all systems. This option can be used to calculate labor and equipment resources for individual maintenance shops since facility systems are usually maintained by one shop.

b. Calculation Method. (Not required when Modeling Method is RMF or gross floor area only.) When using a component modeling method, you can select one of four different calculation methods by pressing the space bar:

(1) Major Cost Tasks and Partial Component Summaries. All tasks have been classified as either high-cost or low-cost. MRPM will calculate all high- or major cost tasks individually. All low-cost tasks have already been combined into one partial component summary.

(2) Component Summaries, No Tasks. (NO DATA AVAILABLE) The system will not use individual tasks. All tasks have already been combined into one total component summary resource requirement.

(3) All Tasks. MRPM will use all tasks for each component.

(4) Just Major Tasks. System will calculate only high-cost and replacement tasks.

c. Task Distribution Method. (Required only when CALCULATION METHOD is All Tasks.) Two task distribution methods can be selected by pressing the space bar:
(1) On the Average. All task occurrences will be assumed to occur on the average frequency stated in the Basic Task Table for each task.

(2) Uniform. Task occurrences will be assumed to occur uniformly from the first possible occurrence (high frequency) to the last possible occurrence (low frequency) stated in the Basic Task Table for each task.

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d. Facility Selection. You can select one of five facility processing methods by pressing the space bar. The starting and ending points for the range are set on the last row of the bottom box. A subdirectory range can be specified for any option to reduce processing time.

(1) Facility Number Range. You can specify a range of facility numbers to be calculated. The system will calculate one resource summary file for each facility from the first specified through, and including, the last facility number specified.

(2) F4C Range. You can specify a range for calculation. The system will calculate one prediction for each facility that has an F4C number within the range specified.

(3) All Facilities. With one command, you can specify calculation of all facilities for your installation.

(4) Subinstallation Range. You can specify a range of subinstallation IDs.

(5) Area Range. You can specify a range of area IDs.

e. Subdirectory Usage. You may have placed your facilities into several different directories to keep the system efficient (250 to 350 facilities per directory). For most installations, your computer cannot store all of the resource summary data at once. At times, you will or will not want to create a tape backup of the resource summary files. Also, you will or will not want to save the files in your computer. The following five options are available:

(1) Use Main Directory; No Tape Backup; Save Files. Use this option when all of your facilities are stored in the installation directory. The system will perform calculations in the current directory. Totals (CACES No: 0000000) for each facility will be stored in the installation directory. The resource summary files will be saved in the main directory. No tape backups will be made of the resource summary files.

(2) Use Main Directory; No Tape Backup; Delete Files. Use this option when all of your facilities are stored in the installation directory. The system will perform calculations in the current directory. Totals for each facility will be stored in the installation directory. The resource summary files will be deleted. No tape backup will be made of the resource summary file.

(3) Use Subdirectories; No Tape Backup; Delete Files. The subdirectories specified will be used. The totals (CACES No: 0000000) for each facility will be stored in the installation directory. No tape backup will be made of the resource summary files and they will be deleted from the computer to allow room for the next subdirectory calculations to continue.

(4) Use Subdirectories; Tape Backup; Delete Files. The subdirectories specified will be used. The totals (CACES No: 0000000) for each facility will be stored in the installation directory. The system will do a tape backup, then delete the resource summary files.

(5) Use Subdirectories; No Tape Backup; Save Files. The subdirectories specified will be used. The totals (CACES No: 0000000) for each facility will be stored in the installation directory. No tape backup will be made and the resource summary files will be saved in the subdirectory.

(6) Use Subdirectories; Tape Backup; Save Files. The subdirectories specified will be used.
The totals (CACES No: 0000000) for each facility will be stored in the installation directory. A tape
backup will be made and the resource summary files will also be saved in the subdirectory.

f. Facilities To Be Processed. You can calculate both building and nonbuilding facilities,
building facilities only, or nonbuilding facilities only.

g. Trace Option. This must always be set to "[0] Set Trace Off."

h. Facility/F4C: or Area/Sub. List the beginning and ending ranges specified in the FACILITY
SELECTION row above. Also specify the subdirectory range.

4. COMMAND LINE. The last line on the screen shows you what function keys are available for
your application.

2.3.3 Display Resources.

Figure 2-55. Display Resources Selection Menu

Resource summary data can be displayed in four formats:

1. Individual Facilities
2. Financial Reports
3. Facility Totals
4. Trade Reports.

2.3.3.1 Display Facility Resources. This feature allows you to review the table of resource requirements and to graph in bar chart form any one of the eight rows of information shown on the screen.

```
RESOURCE SUMMARY GRAPH




              FACILITY ID:    P12345ABC







F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-56. Resource Summary Graph

After the Facility ID is entered, the following screen will appear:

```
                    Resource Summary File    Query Program
          CACES NO: 0000000    TOTAL SUMMARIES
          FACILITY ID: P12345ABC    Total ten years cost:      57712


              Year      1986     1987     1988     1989     1990
        1 Occ Count      139      142      186      128      141
        2 Lab Hours      101      102      366       97      204
        3 Eqp Hours      101      102      366       97      204
        4 Lab Costs     1618     1624     6108     1550     3648
        5 Mat Costs      814      209     6916      210     1792
        6 Eqp Costs      326      329     1252      310      826
        7 Tot Costs     2759     2163    14277     2072     6267
              Year      1991     1992     1993     1994     1995
        1 Occ Count      168      253      127      194      131
        2 Lab Hours      144      207       98      230      106
        3 Eqp Hours      144      207       98      230      106
        4 Lab Costs     2502     3390     1567     3698     1699
        5 Mat Costs      201    12246      664      318     1004
        6 Eqp Costs      543      663      314      819      341
        7 Tot Costs     3247    16300     2546     5036     3045

                        Command Mode
      F1=TOP   F2=BOT   F3=FIND   PgUp=PREV   PgDn=NEXT   G=GRAPH   F10=EXIT
```

Figure 2-57. Resource Summary File, Page 1

After selecting the graph option from the function keys, the following screen will appear:

```
                    Resource Summary File    Query Program
        CACES NO: 0000000   TOTAL SUMMARIES
        FACILITY ID: P12345ABC   Total ten years cost:      57712


             Year    1986    1987    1988    1989    1990
     1 Occ Count      139     142     186     128     141
     2 Lab Hours      101     102     366      97     204
     3 Eqp Hours      101     102     366      97     204
     4 Lab Costs     1618    1624    6108    1550    3648
     5 Mat Costs      814     209    6916     210    1792
     6 Eqp Costs      326     329    1252     310     826
     7 Tot Costs     2759    2163   14277    2072    6267
        -----------------------------------------------------
             Year    1991    1992    1993    1994    1995
     1 Occ Count      168     253     127     194     131
     2 Lab Hours      144     207      98     230     106
     3 Eqp Hours      144     207      98     230     106
     4 Lab Costs     2502    3390    1567    3898    1699
     5 Mat Costs      201   12246     664     318    1004
     6 Eqp Costs      543     663     314     819     341
     7 Tot Costs     3247   16300    2546    5036    3045

                       CHOOSE LINE # TO BE GRAPHED(1-7) 7
     F1=TOP  F2=BOT  F3=FIND  PgUp=PREV  PgDn=NEXT  G=GRAPH  F10=EXIT
```

Figure 2-58. Resource Summary File, Page 2

When the total cost line has been selected to be graphed, the following screen will appear:
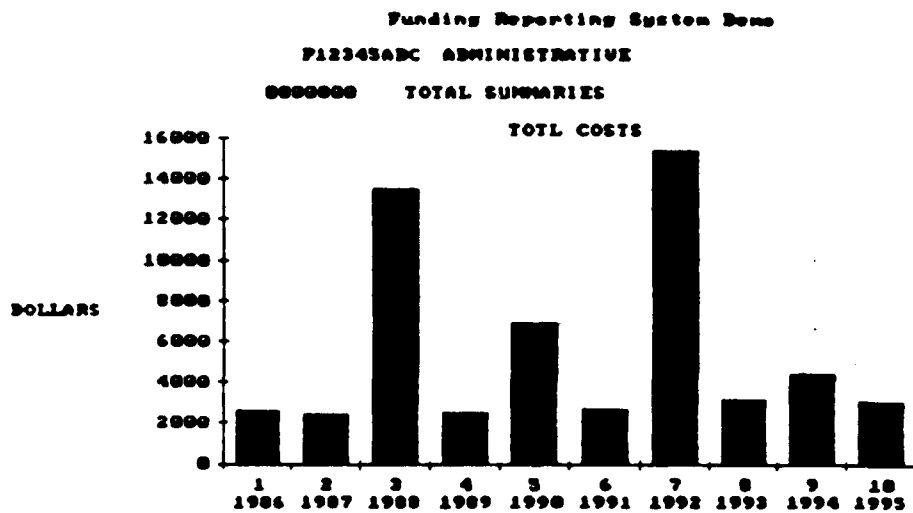
Figure 2-59. Resource Summary Graph

2-58

2.3.3.2 Display Financial Data. This function allows you to display Appropriation/AMS financial reports for an organization in either table or graphic form.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫     REVIEW AND APPROVAL     ▫
▫         DISPLAY OR GRAPH    ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
```

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫ ENTER ORGANIZATION ID:  Z1  ▫
▫ ENTER APR  ID        :  01  ▫
▫ ENTER AMS  ID        :  69  ▫
▫ ENTER TREE ID        :  BF  ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
```

| F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10EXIT |

Figure 2-60. Review and Approval Display or Graph

The user needs to enter the MRPM organizational code for the organization that created the funding report. The Appropriation ID and AMS ID numbers must also be entered. To print the correct headings, the facility component tree file ID must be specified (e.g., BF for buildings).

```
Installation  : Z1   Fort(Prepaired As Requested)           Costs in
Appropriation : 01   Real Property Maintenance Account-1    Thousands of
AMS           : 69   ADMINISTRATION                         Dollars
FACES NO: 0000000    TOTAL SUMMARIES

          Year    1986    1987    1988    1989    1990
1 Occ Count        4576    2374    2974    2858    2937
2 Lab Hours        3808    2193    5253    3123    3031
3 Eqp Hours        3808    2193    5253    3123    3031
4 Lab Costs          64      36      84      52      49
5 Mat Costs         163       8     112       4      55
6 Eqp Costs          13       7      16      11       9
7 Tot Costs         241      52     213      68     115
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
          Year    1991    1992    1993    1994    1995
1 Occ Count        2565    3397    2758    2373    3134
2 Lab Hours        2263    3539    6627    1993    3186
3 Eqp Hours        2263    3539    6627    1993    3186
4 Lab Costs          36      59     113      32      54
5 Mat Costs          30      67      78       6      17
6 Eqp Costs           7      12      23       6      11
7 Tot Costs          75     139     215      44      83
                    Command Mode
F1=TOP  F2=BOT  F3=FIND  PgUp=PREV  PgDn=NEXT  G=GRAPH  F10=EXIT
```

Figure 2-61. Resource Summary File

When the G = GRAPH function is selected, the user can enter the number of the row to be graphed followed by an enter key, and the graph will be displayed.
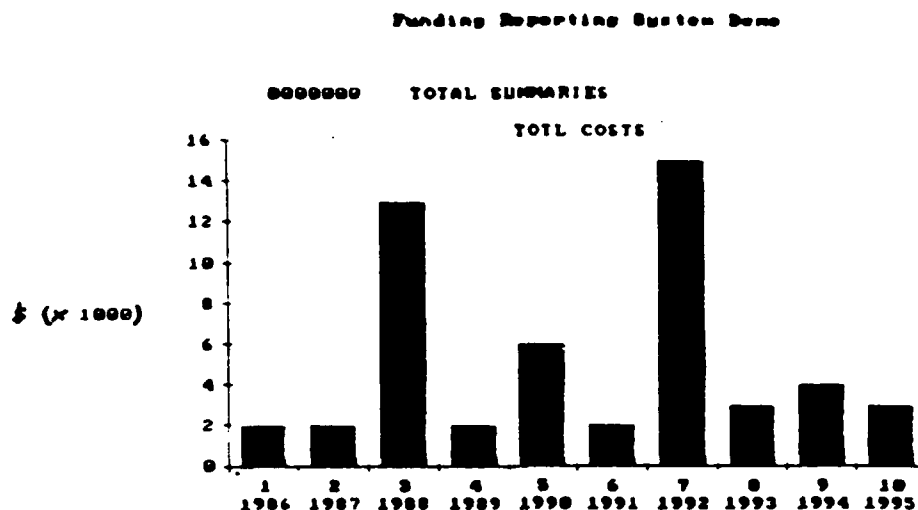
Figure 2-62. Financial Data Graph

2.3.3.3 Display Facility Totals. This feature allows you to review the table of facility total resource requirements.

```
                    Facility Total Resource Summary File
    FACILITY ID: 01              CAPEHART 8 PLEX
    CACES NO: 0000000            Total ten years cost:      2922626
            Year        1986         1987        1988        1989        1990
  1 Occ Count            28           28          28          28          28
  2 Lab Hours         16631        22392        5661        5875       10627
  3 Mat Hours        207465        90313       32439       20059      112533
  4 Eqp Hours         16602        22363        5632        5846       10627
  5 Lab Costs        290714       391423       98963      102704      185765
  6 Mat Costs        207465        90313       32439       20059      112533
  7 Eqp Costs         53127        71563       18024       18709       34007
  8 Tot Costs        551307       553301      149427      141472      332306
  -------------------------------------------------------------------------
            Year        1991         1992        1993        1994        1995
  1 Occ Count            28           28          28          28          28
  2 Lab Hours          5928        15433        4814        8974        6277
  3 Mat Hours         48947       197025       16644       40203       35723
  4 Eqp Hours          5899        15404        4786        8945        6248
  5 Lab Costs        103625       269773       84163      156875      109724
  6 Mat Costs         48947       197025       16644       40203       35723
  7 Eqp Costs         18877        49294       15315       28626       19994
  8 Tot Costs        171451       516093      116123      225705      165441

                      Command Mode
    F1=TOP F2=BOT F3=FIND F4=LIST F5=GRAPH PgUp=PREV PgDw=NEXT F10=EXIT
```

Figure 2-63. Resource Summary Graph

2.3.3.4 Display Trade Data

```
                        Facility Total Resource Summary File
        FACILITY ID: 01              CAPEHART 8 PLEX
        CACES NO: 0000000            Total ten years cost:      2922626
            Year        1986        1987        1988        1989        1990
1 Occ Count             28          28          28          28          28
2 Lab Hours             16631       22392       5661        5875        10627
3 Mat Hours             207465      90313       32439       20059       112533
4 Eqp Hours             16602       22363       5632        5846        10627
5 Lab Costs             290714      391423      98963       102704      185765
6 Mat Costs             207465      90313       32439       20059       112533
7 Eqp Costs             53127       71563       18024       18709       34007
8 Tot Costs             551307      553301      149427      141472      332306
--------------------------------------------------------------------------------
            Year        1991        1992        1993        1994        1995
1 Occ Count             28          28          28          28          28
2 Lab Hours             5928        15433       4814        8974        6277
3 Mat Hours             48947       197025      16644       40203       35723
4 Eqp Hours             5899        15404       4786        8945        6248
5 Lab Costs             103625      269773      84163       156875      109724
6 Mat Costs             48947       197025      16644       40203       35723
7 Eqp Costs             18877       49294       15315       28624       19994
8 Tot Costs             171451      516093      116123      225705      165441

                        Command Mode
F1=TOP  F2=BOT  F3=FIND  F4=LIST  F5=GRAPH  PgUp=PREV  PgDn=NEXT  F10=EXIT
```

Figure 2-64. Display Trade Data.

This program allows you to display the trade summary data in both table form and graphic form. The trade summary reports are a special application of the funding report.

2.3.4 Component and Task Quantity Takeoff and Dates

A record of the last date each component was replaced and/or a task was performed can be kept through the use of this screen. If you enter a date, the computer will mark it with a "U" for "User Entered Date". If the computer assumes a last performed date during calculations, the date will be marked "C" for "Computer Entered Date".

```
+------------------------------------------------------------------+
|                   FACILITY COMPONENT QUANTITY                    |
+------------------------------------------------------------------+

+------------------------------------------------------------------+
|                                                                  |
|                                                                  |
|                                                                  |
|        FACILITY ID:     P12345ABC                                |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
|                                                                  |
+------------------------------------------------------------------+
F1      F2      F3      F4      F5      F6      F7      F8      F9     F10EXIT
```

Figure 2-65. Component/Task Quantity Takeoff

```
                    Facility Component, Quantity, and Dates         11/15/88
Facility ID: [P12345ABC]
                LEVEL 1  0000000   TOTAL SUMMARIES
                LEVEL 2  0300000   ROOFING
                LEVEL 3  0310000   ROOFING
                LEVEL 4  0311000   ROOF COVERING
                LEVEL 5  0311300   STEEP ROOFING
                LEVEL 6  0311350   SHINGLES

                         Command Mode
CACES NO  Quantity U/M   Description     Date Last Performed Next Scheduled
---------------------------------------------------------------------------

0311350   2360.0 2  SHINGLES                          1965 U 1990 U

          NOTES:   inspected 1988. needs replacement in 90.




F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 DATESF7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-66. Facility Information

The date that the task will be performed next can also be kept in this table. If no dates are entered, the MRPM system will assume you have been performing the task with the average frequency since the facility was constructed. Quantities can also be changed on this screen.

The system will help you enter your dates correctly for all component replacements. Record the component replacement date in the component record. The system will automatically add the dates to the correct replacement task also.

```
                    Facility Component, Quantity, and Dates         11/15/88
Facility ID: [P12345ABC]




                         CHANGE ALL DATES

                    LAST COMPLETED DATE    1965

                    NEXT SCHEDULED DATE    1990

                  LEAVE BLANK FOR NO CHANGE

              PRESS (F6) TO CHANGE - (F10) TO CANCEL




F1      F2      F3      F4      F5      F6 BEGINF7      F8      F9      F10EXIT
```

Figure 2-67. Change All Dates

The F6 DATES function key allows you to set all component replacement dates to a user-specified date. This is useful when a building is completely rehabilitated. With one command, all components will

2-62

be updated with the new date.

2.3.5 General Information.

```
ÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞ£
 ¤                          General Facility Information                        02-23-90 ¤
àÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞ¥
        ÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞ£
   ¤    Seq [1038]          Command Mode                                         £
   ¤    (1) Subinstallation   [01] North Sector                            ¤
   ¤    (2) Area              [01] SALERNO CIRCLE                           ¤
   ¤    (3) Facility ID[P08901   ] [LEARN THE MRPM SYSTEM            ]¤
   ¤    (4) F4C Code [7112900] [FAM.HSG.CAPEHART CIV.GS 5 & 6        ]¤
   ¤    (5) Number in F/G      [ 10]     (6) Travel Zone  [ 3]           ¤
   ¤    (7) Square Feet  [      2000]    (8) Construction Year [1901] ¤
   ¤    (9) W/P Method Index [1] minor-inhouse,major-contract            ¤
   ¤   (10) Special Cond. Mult.ID[01]Normal Conditions                  ¤
   ¤   (11) Scheduled disposal date [         ]     [mm-dd-yy]          ¤
   ¤   (12) Last Changed Date         [02-22-90]    [mm-dd-yy]          ¤
   ¤   (13) Last Calculation Date     [02-22-90]    [mm-dd-yy]          ¤
   ¤   (14) Facility Funding Profile[01] test                          ¤
   ¤   (15) Calculation Modeling Id [1] (1:4) As Entered               ¤
   ¤   (16) Directory Specified[E:\   ](blank for current directory)¤
   ¤   (17) Components Entered (Y/N): [Y]                              ¤
   ¤   (18) Base Facility ID[            ]                             ¤
   ¤   (19) Percentage of Base Facility[ ]                             ¤
   ¤                                                                   ¤
        àÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞ¥
 F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 MASK F7 ADD  F8 DEL  F9UPDATEF10EXIT
```

Figure 2-68. General Facility Information

This screen allows you to describe an individual facility or a number of identical (or similar) facilities as a group of facilities. This information is used by the calculation program to produce a resource estimate. The sequence number (SEQ) is an integer used by the MRPM to keep track of all tables related to one facility. All table names have the sequence number as the last four characters in the table name. The following information must be entered:

1. Subinstallation ID. Enter the two-character ID for the subinstallation as defined previously in Section 2.2.4.1.

2. Area ID. Enter the two-character ID for the area as previously defined in Section 2.2.4.1.

3. Facility ID. Enter the nine-character IFS ID. If modeling a group of facilities, use a "G" as the first letter of the ID.

4. F4C Code. Enter the seven-character F4C code.

5. Number in F/G. Enter 1 for an individual facility or the number of individual facilities in a facility group.

6. Travel Zone. Enter the two-character code to define the distance from the shop to the facility from Table 2-3, Travel Zones and times.

7. Square Feet. Enter the amount for the primary unit of measure. This would be gross square feet of floor area for building facilities.

8. Construction Year. Enter the year the facility was originally built.

2-63

9. W/P Method Index. Select the way the work will be performed for this facility and enter the two-character work performance (W/P) ID as defined previously in Section 2.2.3.3.5.

10. Special Condition Multiplier ID. Select the correct special condition multiplier list to be applied and enter the appropriate two-character ID as previously defined in Section 2.2.4.3.

11. Scheduled Disposal Date. Enter the date if known. No resources will be programmed for this facility after this date.

12. Last Change Date. This date is set by the computer as changes are made to this file.

13. Last Calculation Date. This date is set by the computer as calculations are done by the program.

14. Facility Funding Profile. Select the correct facility funding profile and enter the correct two-character ID as defined previously in Section 2.2.4.5.

15. Calculation Modeling ID. Select the method to be used to calculate resource predictions for this facility:

(1) Components. Before performing calculations, you have defined the components that comprise each facility through the model facility menu. With this modeling method, three different levels of calculations can be performed as defined in the next section. You must define a CALCULATION METHOD and a TASK DISTRIBUTION METHOD if you enter the calculation method "All Tasks."

(2) Unit Cost by Age. The system will use the gross floor area listed in row 8 of the general facility information table and apply the ARM factor and the major cost task and MRT factors. The CALCULATION METHOD and TASK DISTRIBUTION METHOD are not. required.

(3) Gross Floor Area Only. The system will use the gross floor area listed in row 8 of the general facility information table and apply the average Army summary resource requirements with your labor, material, and equipment rates. The CALCULATION METHOD and TASK DISTRIBUTION METHOD are not. required.

The system will take the year of construction (e.g., 1942) and the report period dates (e.g., 1986 through 1995) and convert the report years to facility ages (1986: Age = 44; 1995: Age 53). The system will go to the correct total resource summary table and read the LH, MC, and EH resource requirements per unit of measure for the required ages (e.g., Age = 44, LH = 0.069 hr/sq ft, MC = $0.76/sq ft, EH = 0.037 hr/sq ft). The system will go to the Trade Cost Table and read the carpentry shop rates for labor and equipment (L = $10/hr, E = $2/hr). Total resource requirements will be produced by multiplying the facility gross square feet of floor area (e.g., 2000 sq ft) by the average resource requirement (e.g., 0.069 hr/sq ft) or 138 hours. Dollar costs are produced by multiplying total resources (e.g., 138 hr) by the labor rate (e.g., $10/hr) or $1380.

(4) Recurring Maintenance Factors (RMF). The system will use the gross floor area listed in the general facility information table and apply the RMFs for the installation (the average of the past several years' expenditures). The CALCULATION METHOD and TASK DISTRIBUTION METHOD are not. required.

The system will take the year of construction (e.g., 1942) and the report period dates (e.g., 1986 through 1995) and convert the report years to facility ages (1986: Age = 44; 1995: Age = 53). The system will go to the RMF table and read the total cost per unit of measure for the required ages (e.g., Age = 44, total cost = $0.76/sq ft). Total dollar costs are produced by multiplying total resources per unit of measure (e.g., $0.76/sq ft) by the gross square feet of floor area (e.g., 2000 sq ft) or $1520.

(5) Do Not Model. No calculations will be performed on this facility.

16. Directory Specified. Enter the number of the directory in which the facility should be stored (i.e., for E:\17 enter E:\17). Leave blank for the current directory.

17. Components Entered. MRPM will automatically keep track of which facilities have components entered and which facilities do not have components entered.

18. Base Facility ID . If you are modeling a multi-use facility as one total facility and then using a percentage for each user, the facility ID for the base facility must be entered in this field.

19. Percentage of Base Facility. If this facility record is a part of a multi-use facility the percentage of the facility being used by this occupant should be entered in this field.

The F6 MASK key function will allow you to make the same change to a range of facilities with one command (e.g., change the calculation modeling method from RMF(4) to As entered (1)). Enter only the fields to be changed and the starting and ending facility ID.

```
▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪
▪                        SEQUENTIAL FACILITY EDITOR          11/15/88  ▪
▪                                                                      ▪
▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪
        ▫▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪
        ▫                                                        ▫
        ▫  (1) Subinstallation    [00]                           ▫
        ▫  (2) Area             · [nn]                           ▫
        ▫  (3) Starting Fac ID:   [nnnnnnn]  Ending Fac ID:[nnnnnnn]▫
        ▫  (4) F4C Code           [nnnnnnn]                       ▫
        ▫  (5) Number in F/G      [nn]                            ▫
        ▫  (6) Travel Zone        [nn]                            ▫
        ▫  (7) Square Feet        [nnnnnnn]                       ▫
        ▫  (8) Construction Year  [nnnn]                          ▫
        ▫  (9) W/P Method Index   [n]                             ▫
        ▫ (10) Special Cond Mult  [nn]                            ▫
        ▫ (11) Scheduled Disposal Date [mm/dd/yy]  [mm/dd/yy]     ▫
        ▫ (12) Last Changed Date  [mm/dd/yy]  [mm/dd/yy]          ▫
        ▫ (13) Last Calc Date     [mm/dd/yy]  [mm/dd/yy]          ▫
        ▫ (14) Fac Fund Profile   [nn]                            ▫
        ▫ (15) Calc Modeling ID   [n]                             ▫
        ▫                                                        ▫
        ▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪▪

  F1      F2      F3      F4      F5      F6      F7      F8      F9 SAVE F10EXIT
```

Figure 2-69. Sequential Facility Editor

2.3.6 Reports.

```
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▫              ▫         Facility Reports          ▫                  ▫
▫              ▫          Selection  Menu          ▫                  ▫
▫              ▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫                    ▫
▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫                   F4C/AMS Organizational Summary                    ▫
▫                   Task Cost Report                                  ▫
▫                   Facility Component/Quantities                     ▫
▫                   Ordered Yearly Task Report                        ▫
▫                   Funding Report                                    ▫
▫                   Resource Summary                                  ▫
▫                   Copy Financial Report Files                       ▫
▫                   Facility Totals Report                            ▫
▫                   Combine Funding Reports                           ▫
▫                   Trade Index Report                                ▫
▫                                                                     ▫
▫                                                                     ▫
▫                                                                     ▫
▫E:\DATA\LEARN                                                        ▫
▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫▫
 F1     F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-70. Facility Reports

This screen allows you to obtain several different reports on your printer. The following report formats are available with estimated pages produced:

• If you want to obtain a report by F4C codes summarized by area, subinstallation, and installation, use the "AMS/F4C Summary Report." The length of this report can be determined by counting one page for every three areas and subinstallations and one page for the installation totals.

- If you want a report of the total number of tasks performed for each component, system, etc. (occurrences) and total dollars for all systems, subsystems, components, and tasks in numerical order for a facility, use the "Task Cost Report." This report is approximately one to four pages long per facility.

- If you want a facility report showing the components, tasks, quantities, and dates, use the "Facility Component/Quantities Report." This report is approximately one to four pages long per facility.

- If you want facility task resources listed from the most expensive to the least expensive, use the "Ordered Yearly Task Report." This report has approximately one page per facility per year or period requested if you print only tasks costing more than 2 percent of the total annual cost.

- If you want to summarize your facility predictions by appropriation and AMS codes, use the "Funding Report." The report is approximately 10 pages long per Appropriation/AMS Code.

- If you want a facility report showing a complete list of all labor, material, and equipment resource information for all tasks, use the "Resource Summary Report." This report contains approximately 10 pages per facility.

- If you have funding reports stored in several directories, use the "Copy Financial Report File" to copy the files to your current directory.

- If you want a report showing the total dollars predicted for each facility, use the "Facility Total - Resource Report."

- If you want to combine all funding reports into one total for the installation, use the combined funding report function.

- If you want to obtain reports of labor by trades use the trade index report.

2.3.6.1. F4C/AMS Organizational Summary Report. Selecting this option provides you with an F4C and AMS summary report. The report shows total resources summarized at the area, subinstallation, and installation organizational levels. You can select ranges of F4C/AMS codes for the report and facility IDs within the F4C/AMS range. The starting year and number of years to print must also be specified.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲
□              AMS/F4C Summary Report                            □
□                  Input Screen                                  □
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
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□                                                                □
□                                                                □
□      Enter the low  F4C Code:  6101100                         □
□      Enter the high F4C Code: 6101100                          □
□                                                                □
□      Enter the low  Facility ID: P12345ABC (Enter blanks to    □
□      Enter the high Facility ID: P99999ZZZ  print all facilities) □
□                                                                □
□      Enter the starting year:   1986                           □
□      Enter the number of years to report: 10 (max 10)          □
□                                                                □
□      Print Option: 1                                           □
□        (1) Actual Unit                                         □
□        (2) K Unit                                              □
□                                                                □
□                                                                □
□                                                                □
□                                                                □
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
 F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-71. AMS/F4C Summary Report

Appendix C, pages C-1 through C-4 and pages C-5 through C-8, contains a sample F4C and AMS Organizational Summary Report. The first line of the heading for each page of this report states the name of the report: "ORGANIZATIONAL SUMMARY REPORT." The second line of the heading gives the installation name: "Installation: Funding Reporting System Demo," the date the report was generated: "5/JUN/87," and the page number of the report: "Page: 1".

The body of each page contains two summary tables. Area totals are given first. Subinstallation totals are given second, and installation totals appear last. F4C or AMS codes are printed with each summary total. The subinstallation or installation and area IDs are printed as the left side heading. The total number of facilities summarized in the group and the total gross square feet of floor area for all summarized facilities are also printed.

There is one column of data for each report year. The year is printed as the column header.

Eight rows of information are given:

1. Occurrences. The total number of individual tasks performed during the year for all facilities within this summary.

2. Labor hours. The total number of labor hours required during the year for all facilities within this summary.

3. Equipment hours. The total number of equipment hours required during the year for all facilities within this summary.

4. Labor costs. The total number of dollars required to pay for the labor for all facilities within this summary.

5. Material costs. The total number of dollars required to pay for the material for all facilities within this summary.

6. Equipment costs. The total number of dollars required to pay for the equipment for all facilities within this summary.

7. Totals. The total labor plus material plus equipment cost required for all facilities within this summary.

8. Total dollars for all years. The grand total of the individual year totals printed in the "Totals" row above.

2.3.6.2 Task Cost Report. This report provides you with a list of all tasks performed for each facility during the reporting years. Tasks will be printed in numerical order. The total number of tasks performed for each task, component, subsystem, and system will be printed with the total costs.


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▫           FACILITY TASK COST REPORT                                  ▫
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```

Figure 2-72. Facility Task Cost Report

Appendix C, pages C-9 and C-10, contains a sample Facility Task Cost Report. The first line of the header for each page of the report gives the date and time, "6/05/87   13:06:41", The title, "FACILITY TASK COST REPORT", and the page number "Page 1". The second line gives the installation name "INSTALLATION: Funding Reporting System Demo" and the facility ID "FACILITY ID: P12345ABC".

The columns in the report contain information for each of the report years. The total number of tasks performed (occurrences "OCC") with respect to the row item (task component, system, total facility) is printed along with the total dollars spent.

The rows of this report list the complete tree structure of the facility from the total facility, systems, subsystems, components, and tasks. Each row of the report is composed of two printed lines of information. The first line contains the CACES number followed by the description. The second line gives the total number of task occurrences and the total dollar costs for each report year.

There is one column of data for each report year. The year is printed as the column header.

2.3.6.3 Facility Component Quantities and Dates. This report provides you with a list of all components and quantities, tasks, and last completed and next scheduled dates.

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▪               Facility Component / Quantity                       ▪
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▫         ENTER FACILITY ID TO PRINT ==>   P12345ABC               ▫
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-73. Display Task/Component Tree Structure

Appendix C, page C-11, shows a sample Facility Component Quantities and Dates report. The header contains the report title, "Facility Quantity and Date Report," the "Facility ID P08901," the page number, "Page 1," and the date "6/5/87."

The first column of the report lists the level in the tree structure from the top of the tree, which is the total facility. The second column contains the number of the item within the level given in column one.

The CACES numbers and descriptions are shown indented by levels in the next column. The fourth column contains the quantity for each component. The fifth column lists the unit of measure ID.

The last two columns show the last and next scheduled dates for component replacement and task performance. Notice that a "U" is shown if the user has set this date and a "C" is shown if the computer has assumed the date shown.

The last tasks for every component are always the component replacement tasks.

2.3.6.4 Ordered Task Report. This report provides you with the total dollars spent during the time period and the tasks performed, listed from the highest cost to the lowest cost task.

```
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 ▫        ▫   ORDERED TASK REPORT GENERATOR      ▫                              ■
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 ▫        ▫       PLEASE SELECT THE TYPE OF REPORT         ▫                    ■
 ▫        ▫                                                ▫                    ▫
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 ▫        ▫          YEARLY BY FUNDING REPORT              ▫                    ▫
 ▫        ▫          PERIOD BY FACILITY ID                 ▫                    ▫
 ▫        ▫          PERIOD BY F4C CODE                    ▫                    ▫
 ▫        ▫          PERIOD BY FUNDING REPORT              ▫                    ▫
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 F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-74. Ordered Task Report

Six reports can be generated. The first three reports are for single years (e.g., 1986 or 1987). The last three reports are for periods of years (1986 through 1989--4 years added together in one report). Reports can be requested by facility range, F4C range, or funding reports. You can specify a lower reporting limit (cutoff point) by percent of total yearly cost for the facility.

Appendix C, pages C-12 and C-13, shows a sample Ordered Task Report. The first line of the header contains the title, "ORDERED YEARLY TASK REPORT," and page number, "PAGE 1." The next line contains the installation name, facility ID, F4C code, number of facilities in the group, report year, and current date.

This report is printed in two sections. One section lists total costs by components. The other section lists total costs by individual tasks.

The first two columns of the report list the CACES number and description. The third column lists the total number of tasks performed with respect to the CACES item listed (occurrences).

The fourth column gives the total dollars spent during the report period for the CACES item. The next column appears only on individual facility reports by year and gives the total dollars expended per gross square foot of floor area. The last column in the report gives the percentage of the total facility expenditure allocated to the CACES item listed.

2-71

(a) Yearly by Facility ID.

```
********************************************
*          YEARLY BY FACILITY ID          *
********************************************

***********************************************
* STARTING YEAR .......(YYYY) ==>  1986       *
*                                             *
* NUMBER OF YEARS ..(MAX  10) ==>  10         *
*                                             *
* LOW FACILITY ID .......(9X) ==>  P12345ABC  *
*                                             *
* HIGH FACILITY ID ......(9X) ==>  P99999XYZ  *
*                                             *
* LOWER PERCENT CUTOFF ..(nn) ==>  2          *
*                                             *
* TASK REPORT OPTIONS ....(n) ==>  2          *
* (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) *
***********************************************
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-75. Range by Facility Group ID

When selecting this option, you must enter the first year to be reported, the total number of years to be reported starting with the year to report, the range of facilities to be printed, and the lowest percentage of yearly cost to be printed. The system will order all tasks and components from highest to lowest cost and then print all tasks with a percentage of yearly cost equal to or above the cutoff point defined by the user.

(b) Yearly by F4C Code.

```
**************************************************
*   *************************************        *
*   *     ORDERED TASK REPORT GENERATOR   *      *
*   *************************************        *
*                                                *
*   ***********************************************
*   * PLEASE SELECT THE TYPE OF REPORT          * *
*   *                                           * *
*   *      YEARLY BY FACILITY ID                * *
*   *      YEARLY BY F4C CODE                   * *
*   *      YEARLY BY FUNDING REPORT             * *
*   *      PERIOD BY FACILITY ID                * *
*   *      PERIOD BY F4C CODE                   * *
*   *      PERIOD BY FUNDING REPORT             * *
*   *                                           * *
*   * REPORT ON EACH FACILITY ID                * *
*   * SUMMARY REPORT ON EACH F4C CODE           * *
*   *                                           * *
*   ***********************************************
*                                                *
**************************************************
F1    F2    F3    F4    F5    F6    F7    F8    F9    F10EXIT
```

Figure 2-76. Ordered Task Report Generator

Selecting this option allows you to obtain either one separate report for each facility ID or one summary report for the F4C range specified.

(1) Report on Each Facility ID.

```
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&E
¤              YEARLY BY F4C CODE            ¤
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&V

&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&E
¤ STARTING YEAR .......(YYYY) ==>  1986           ¤
¤                                                 ¤
¤ NUMBER OF YEARS ..(MAX  10) ==>  10             ¤
¤                                                 ¤
¤ LOW F4C CODE ..........(7X) ==>  6000000        ¤
¤                                                 ¤
¤ HIGH F4C CODE .........(7X) ==>  6999999        ¤
¤                                                 ¤
¤ LOWER PERCENT CUTOFF ..(nn) ==>   2             ¤
¤                                                 ¤
¤ TASK REPORT OPTIONS ....(n) ==>   2             ¤
¤ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ¤
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&V
```

```
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-77. Yearly by F4C

Selecting this option requires you to enter the first year to report, the total number of years to report starting with the first year, the F4C range, and the lowest percentage of annual costs to print on the report.

(2) Summary Report on Each F4C Code.

```
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&E
¤              YEARLY BY F4C CODE            ¤
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&V

&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&E
¤ STARTING YEAR .......(YYYY) ==>  1986           ¤
¤                                                 ¤
¤ NUMBER OF YEARS ..(MAX  10) ==>  10             ¤
¤                                                 ¤
¤ LOW F4C CODE ..........(7X) ==>  6000000        ¤
¤                                                 ¤
¤ HIGH F4C CODE .........(7X) ==>  6999999        ¤
¤                                                 ¤
¤ LOWER PERCENT CUTOFF ..(nn) ==>   2             ¤
¤                                                 ¤
¤ TASK REPORT OPTIONS ....(n) ==>   2             ¤
¤ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ¤
&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&V
```

```
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-78. Range by File Name

Selecting this option requires you to enter the first year to report, the total number of years to report starting with the first year, the F4C range, and the lowest percentage of annual cost to print on the report.

2-73

(c) Yearly by Funding Report.

```
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☐        ☐         PLEASE SELECT THE TYPE OF REPORT          ☐           ☐
☐        ☐                                                   ☐           ■
☐        ☐         YEARLY BY FACILITY ID                     ☐           ■
☐        ☐         YEARLY BY F4C CODE                        ☐           ☐
☐        ☐         YEARLY BY FUNDING REPORT                  ☐           ☐
☐        ☐         PERIOD BY FACILITY ID                     ☐           ☐
☐        ☐         PERIOD BY F4C CODE                        ☐           ☐
☐        ☐         PERIOD BY FUNDING REPORT                  ☐           ☐
☐        ☐                                                   ☐           ■
☐        ☐         ORGANIZATION ID   = ZZ                    ☐           ▼
☐        ☐         APPROPRIATION ID  = 01                    ☐           ☐
☐        ☐         AMS CODE          = 69                    ☐           ☐
☐        ☐         TREE ID           = BF                    ☐           ☐
☐        ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥           ☐
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F1       F2       F3       F4       F5       F6       F7       F8       F9       F10EXIT
```

Figure 2-79. Ordered Task Report Generator

Selecting this option requires you to enter the organization ID, appropriation ID, and AMS Code ID.

```
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                    ■        YEARLY BY FUNDING REPORT       ☐
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          ☐ STARTING YEAR .......(YYYY) ==>  1986          ☐
          ☐                                                ☐
          ☐ NUMBER OF YEARS ..(MAX  10) ==>  10            ☐
          ☐                                                ☐
          ☐                                                ☐
          ☐                                                ☐
          ☐                                                ☐
          ☐                                                ☐
          ☐                                                n
          ☐ LOWER PERCENT CUTOFF ..(nn) ==>   2            ☐
          ☐                                                ☐
          ☐ TASK REPORT OPTIONS ....(n) ==>   2            ☐
          ☐ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ☐
          ♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♦♥
```

```
F1       F2       F3       F4       F5       F6       F7       F8       F9       F10EXIT
```

Figure 2-80. Range by File Name

The first year to report, the total number of years to report, and the lowest percentage of annual cost to print on the report are entered.

(d) Period by Facility ID.

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAccccccccE
a        PERIOD BY FACILITY ID        a
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAcccccccccV

AccccccccccccccccccccccccccccccccccccccccccccccE
a STARTING YEAR .......(YYYY) ==>  1986        a
a                                              a
a ENDING YEAR .........(YYYY) ==>  1995        a
a                                              a
a LOW FACILITY ID .......(9X) ==>  P12345ABC   a
a                                              a
a HIGH FACILITY ID ......(9X) ==>  P12345ABC   a
a                                              a
a LOWER PERCENT CUTOFF ..(nn) ==>  2           a
a                                              a
a TASK REPORT OPTIONS ....(n) ==>  2           a
a (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) a
AccccccccccccccccccccccccccccccccccccccccccccccV
```

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure 2-81. Period by Facility Group ID

Selection of this option requires the user to enter the starting and ending report years, the facility ID range, and the lowest percentage of annual cost to report.

(e) Period by F4C Code.

```
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE
a              AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE              a
a              a    ORDERED TASK REPORT GENERATOR    a              a
a              AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAV              a
a                                                                  a
a                                                                  a
a      AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE          a
a      a       PLEASE SELECT THE TYPE OF REPORT       a          a
a      a                                              a          a
a      a          YEARLY BY FACILITY ID               a          a
a      a          YEARLY BY F4C CODE                  a          a
a      a          YEARLY BY FUNDING REPORT            a          a
a      a          PERIOD BY FACILITY ID               a          a
a      a          PERIOD BY F4C CODE                  a          a
a      a          PERIOD BY FUNDING REPORT            a          a
a      a                                              a          a
a      a      REPORT ON EACH FACILITY ID              a          a
a      a      SUMMARY REPORT ON EACH F4C CODE         a          a
a      a                                              a          a
a      AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAV          a
a                                                                  a
a                                                                  a
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAV
F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-82. Ordered Task Report Generator

(1) Report on Each F4C Code.

```
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▫          PERIOD BY F4C CODE           ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲¥

▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫ STARTING YEAR .......(YYYY) ==>  1986        ▫
▫                                              ▫
▫ ENDING YEAR .........(YYYY) ==>  1995        ▫
▫                                              ▫
▫ LOW F4C CODE .........(7X) ==>  6000000      ▫
▫                                              ▫
▫ HIGH F4C CODE ........(7X) ==>  6999999      ▫
▫                                              ▫
▫ LOWER PERCENT CUTOFF ..(nn) ==>  2           ▫
▫                                              ▫
▫ TASK REPORT OPTIONS ....(n) ==>  2           ▫
▫ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲¥
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-83. Period by F4C Code

You must enter the starting and ending report years, the F4C range, and the lowest percentage to print.

(2) Summary Report on Each F4C Code.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫          PERIOD BY F4C CODE           ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲¥

▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫ STARTING YEAR .......(YYYY) ==>  1986       ▫
▫                                             ▫
▫ ENDING YEAR .........(YYYY) ==>  1995       ▫
▫                                             ▫
▫ LOW F4C CODE .........(7X) ==>  6000000     ▫
▫                                             ▫
▫ HIGH F4C CODE ........(7X) ==>  6999999     ▫
▫                                             ▫
▫ LOWER PERCENT CUTOFF ..(nn) ==>  2          ▫
▫                                             ▫
▫ TASK REPORT OPTIONS ....(n) ==>  2          ▫
▫ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲¥
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-84. Range by F4C Code

You must enter the starting and ending years to report, the range of F4C codes, and the lowest percentage to print.

(f) Period by Funding Report.

Figure 2-85. Ordered Task Report Generator

Enter the organization ID, the appropriation ID, and the AMS code ID.

Figure 2-86. Range by File Name

Enter the range of years to be added together and the lowest percentage of annual cost to report.

2.3.6.5 Funding Report. A funding report is a combination of all facility requirements for one specific appropriation and AMS code. The first screen allows you to generate report files to send to the MACOM for inclusion in the proposed program. The first option allows you to select one or all of the standard Army reports listed on the second screen. The second option allows you to select any

appropriation/AMS code for report generation. The third option allows you to print one of the reports
generated in options one or two.

```
                    èeeeeeeeeeeeeeeeeeeeeeeeE
                    ¤    FUNDING REPORT   ¤
                    àeeeeeeeeeeeeeeeeeeeeee¥
èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
¤ OPTIONS:                                                              ¤
¤                                                                       ¤
¤                                                                       ¤
¤ 1 - GENERATE REPORT FILE FROM STANDARD APR/AMS COMBINATIONS  ¤
¤                                                                       ¤
¤ 2 - GENERATE REPORT FILE FROM SPECIFIC APR/AMS COMBINATIONS  ¤
¤                                                                       ¤
¤ 3 - PRiNT OUT AN EXISTING REPORT FILE                        ¤
¤                                                                       ¤
¤ 4 - GENERATE SYSTEM REPORT FOR ALL APR/AMS CODES             ¤
¤                                                                       ¤
¤        ENTER OPTION (1,2,3,OR 4) :   1                       ¤
¤                                                                       ¤
¤                                                                       ¤
àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-87. Maintenance Resource Prediction Reports

1. Generate Report File From Standard APR/AMS Combinations.

```
        STANDARD APR/AMS REPORT FORMATS
44444444!44444444444444L444444!44444444444444E
¤APR ID°  APR CODE #  ¤AMS ID°  AMS CODE #  ¤
Ù44444444444444444444444444444444444444444444444Ñ
¤ 01  •  RPMA 1    ¤ 69  •  K2600       ¤
¤ 01  •  RPMA 1    ¤ 70  •  K2700       ¤
¤ 01  •  RPMA 1    ¤ 71  •  K2800       ¤
¤ 01  •  RPMA 1    ¤ 72  •  K2910       ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
¤        •         ¤       •            ¤
444444444444444444444444444444444444444444444¥
```

USE CURSOR AND PAGING CONTROLS TO POINT TO FORMAT FOR REPORT

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure 2-88. Standard Appropriations/AMS Report Formats

This selection allows you to select one of the standard Army reports from the list of standard reports
by moving the arrow pointers to the correct report and pressing the enter key.

2-78

```
****************************************E
  a  MAINTENANCE RESOURCE PREDICTION REPORTS  a
****************************************V

eEeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
a  REQUESTED REPORT IS AS FOLLOWS:                          a
a                                                           a
a     eeeeeeeeeeeeeeeeeeeE                                  a
a     a ORG CODE  =  21 a                                   a
a     a APPROP ID =  01 a                                   a
a     a AMS ID    =  72 a                                   a
a     eeeeeeeeeeeeeeeeeeeV                                  a
a                                                           a
a PLEASE ENTER ADDITIONAL INFORMATION                       a
a                                                           a
a ENTER THE STARTING YEAR FOR THE REPORT       : 1986       a
a ENTER THE NUMBER OF YEARS TO REPORT (10 MAX) : 10         a
a ENTER STARTING FACILITY ID (BLANKS IF ALL)   : P12345ABC  a
a ENTER END FACILITY ID (BLANKS IF SAME AS START) : P99999XYZ a
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV


F1     F2     F3     F4     F5     F6BEGIN F7     F8     F9     F10EXIT
```

Figure 2-89. Maintenance Resource Prediction Reports

The screen will display the organization code, appropriation ID, and AMS code ID. Enter the starting year for the report, the number of years to report, and a facility range if appropriate.

If the reports already exist, you will be asked if they can be deleted and new reports calculated. Reports for each subinstallation will be generated along with one report for the total organization.

2. Generate Report File From Specific APR/AMS Combinations. Select one appropriation from the Appropriation Code Table and then one AMS code from the AMS Functional Group Code Table.

```
                    APPROPRIATION CODE TABLE
eeeeeeeeIeeeeeeeeeeeeeeeIeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
aAPR ID* APR CODE #  *            APR DESCRIPTION                        a
UeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeR
a  01  *  RPMA 1  *  Real Property Maintenance Account-1                 a
a  02  *  RPMA 2  *  Real Property maintenance Account-2                 a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *          .                                           a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
a      *          *                                                      a
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV
        USE CURSOR AND PAGING CONTROLS TO CHOOSE APR ID FOR REPORT


F1     F2     F3     F4     F5     F6BEGIN F7     F8     F9     F10EXIT
```

Figure 2-90. Appropriations Code Table

```
                        AMS FUNCTIONAL GROUP CODES
=============================================================================
  AMS ID   AMS CODE #              AMS DESCRIPTION
-----------------------------------------------------------------------------
    61      K19XX         ALL OTHERS
    62      K2000         BUILDINGS
    63      K2100         TRAINING
    64      K2200         MAINTENANCE & PRODUCTION
    65      K2300         RESEARCH, DEVELOPMENT & TEST
    66      K2410         AMMUNITION STORAGE
    67      K2420         OTHER COVERED STORAGE
    68      K2500         HOSPITAL & MEDICAL
    69      K2600         ADMINISTRATION
    70      K2700         BACHELOR HOUSING
    71      K2800         COMMUNITY
    72      K2910         FAMILY HOUSING



=============================================================================
         USE CURSOR AND PAGING CONTROLS TO CHOOSE AMS ID FOR REPORT
```

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure-91. AMS Functional Group Codes


```
=============================================================
    MAINTENANCE RESOURCE PREDICTION REPORTS
=============================================================

=============================================================================
  REQUESTED REPORT IS AS FOLLOWS:

      =========================
       ORG CODE   =  21
       APPROP ID  =  01
       AMS ID     =  72
      =========================

  PLEASE ENTER ADDITIONAL INFORMATION

  ENTER THE STARTING YEAR FOR THE REPORT          : 1986
  ENTER THE NUMBER OF YEARS TO REPORT (10 MAX)    : 10
  ENTER STARTING FACILITY ID (BLANKS IF ALL)      : P12345ABC
  ENTER END FACILITY ID (BLANKS IF SAME AS START) : P99999XYZ
=============================================================================
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-92. Maintenance Resource Prediction Reports

3. Print an Existing Report File.

```
*********************************************
*    FUNDING REPORT PRINT INFORMATION    *
*********************************************
```

```
*********************************************************************
*      ENTER THE APR ID NO.                      :  01            *
*                                                                 *
*      ENTER THE AMS ID NO.                      :  07            *
*                                                                 *
*      ENTER "I" FOR INSTAL OR "S" FOR SUBINSTAL :  I             *
*                                                                 *
*      ENTER THE SUB INSTAL OR INSTAL ID         :  ZZ            *
*********************************************************************
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-93. Funding Report Print Information

Enter the appropriation ID, AMS ID, installation or subinstallation indicator, and organization ID for the report to be printed.

```
*********************************************************
*   MAINTENANCE RESOURCE PREDICTION REPORTS   *
*********************************************************
```

```
*********************************************************************
* REQUEST PRINTED REPORT IS AS FOLLOWS:                           *
*                                                                 *
*    ***********************************                          *
*    * ORG CODE  =  21            *                               *
*    * APPROP ID =  01            *                               *
*    * AMS ID     =  07            *                              *
*    * SUB INST OR INSTAL  =    ZZ *                              *
*    ***********************************                          *
* PLEASE ENTER ADDITIONAL INFORMATION                             *
*                                                                 *
* ENTER THE STARTING YEAR FOR THE REPORT          : 1986         *
* ENTER THE NUMBER OF YEARS TO REPORT (10 MAX)    : 10           *
*********************************************************************
```

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure 2-94. Maintenance Resource Prediction Reports

The system will display the above values, after which you can enter the years to be printed and select one of two print options: (1) total facility requirements plus total components (system) resources, or (2) all resources (total, system, subsystem, components and tasks).

Appendix C shows a sample Up-to-Date Installation Report. The header for this report contains the organization, appropriation, and AMS codes. The page number and date are shown on the right side of the page.

There is one column of data for each report year. The year is printed as the column header.

Eight rows of information are given:

a. Occurrences. The total number of individual tasks performed during the year for all facilities within this summary.

b. Labor hours. The total number of labor hours required during the year for all facilities within this summary.

c. Equipment hours. The total number of equipment hours required during the year for all facilities within this summary.

d. Labor costs. The total number of dollars required to pay for the labor for all facilities within this summary.

e. Material costs. The total number of dollars required to pay for the material for all facilities within this summary.

f. Equipment costs. The total number of dollars required to pay for the equipment for all facilities within this summary.

g. Totals. The total labor plus material plus equipment cost required for all facilities within this summary.

h. Total dollars for all years. The grand total of the individual year totals printed in the "Totals" row above.

4. Generate Systems Report for all APR/AMS Codes.

```
èéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé£
¤                      GENERATE SYSTEM REPORT FOR                              ¤
¤                         ALL APR/AMS CODES                                    ¤
àéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé¥
èéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé£
¤                                                                              ¤
¤           All Types Facility     [toggle space bar to change]                ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤           Enter the low  Facility ID:            (Enter blanks to            ¤
¤           Enter the high Facility ID:             print all facilities)      ¤
¤                                                                              ¤
¤           Enter the starting year: 1986                                      ¤
¤           Enter the number of years to report: 10 (max 10)                   ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
àéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé¥
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-95. Systems report.

This is a special function that will generate a report containing only the total and systems level of detail. This can be applied when only tables are required by trade or system.

2.3.6.6 Resource Summary.

```
èéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé£
¤  INPUT SCREEN                                             ¤
¤                                                           ¤
¤                                                           ¤
¤     ENTER LOW   FACILITY ID : P12345ABC                   ¤
¤     ENTER HIGH FACILITY ID : P99999XYZ                    ¤
¤                                                           ¤
¤        THE STARTING YEAR : 1986                           ¤
¤     ENTER NUMBER OF YEARS TO REPORT(MAX 10): 10           ¤
¤                                                           ¤
¤                                                           ¤
¤                                                           ¤
¤                                                           ¤
àéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé¥
```

```
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-96. Resource Summary Input, Screen 1

This function allows you to print one report for each facility by either F4C or Facility Number Range. The resources for all systems, subsystems, components, and tasks are printed. Printouts are extremely long and time-consuming, as costs are printed for every CACES number describing the facility.

2-83

```
**********************************************
*                                            *
*   INPUT SCREEN                             *
*                                            *
*     ENTER LOW  F4C CODE    : 6000000       *
*     ENTER HIGH F4C CODE    : 6999999       *
*                                            *
*     ENTER THE STARTING YEAR : 1986         *
*     ENTER NUMBER OF YEARS TO REPORT(MAX 10): 10 *
*                                            *
**********************************************
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-97. Resource Summary Input, Screen 2

You can select a range of facility numbers to be printed by stating the starting year and the number of years to report.

```
**********************************************
*                                            *
*   INPUT SCREEN                             *
*                                            *
*     ENTER LOW  F4C CODE    : 6000000       *
*     ENTER HIGH F4C CODE    : 6999999       *
*                                            *
*     ENTER THE STARTING YEAR : 1986         *
*     ENTER NUMBER OF YEARS TO REPORT(MAX 10): 10 *
*                                            *
**********************************************
```

F1   F2   F3   F4   F5   F6   F7   F8   F9   F10EXIT

Figure 2-98. Resource Summary Input, Screen 3

You also can select a range of F4C codes and all facilities within the F4C range will be printed.

Appendix C, pages C-17 through C-19, shows a sample Resource Summary Report. The header for this report contains the installation, facility ID, date, page number, and the name of the file containing the report printed.

There is one column of data for each report year. The year is printed as the column header.

2-84

Eight rows of information are given:

1. Occurrences. The total number of individual tasks performed during the year for all facilities within this summary.

2. Labor hours. The total number of labor hours required during the year for all facilities within this summary.

3. Equipment hours. The total number of equipment hours required during the year for all facilities within this summary.

4. Labor costs. The total number of dollars required to pay for the labor for all facilities within this summary.

5. Material costs. The total number of dollars required to pay for the material for all facilities within this summary.

6. Equipment costs. The total number of dollars required to pay for the equipment for all facilities within this summary.

7. Totals. The total labor plus material plus equipment cost required for all facilities within this summary.

8. Total dollars for all years. The grand total of the individual year totals printed in the "Totals" row above.

2.3.6.7 Copy Financial Report Files. This function will copy all financial reports from all subdirectories to the current directory. This must be done before you run financial reports.

```
Financial Report Files Copy Function




                ORGANIZATION ID ( XX )   : ZZ







F1     F2     F3     F4     F5     F6     F7     F8     F9     F10EXIT
```

Figure 2-99. Financial Report Files Copy

2.3.6.8 Facility Totals Report. Appendix C contains a sample Facility Totals Report.

```
**********************************************************************
 *                      FACILITY TOTALS REPORT                       *
**********************************************************************
**********************************************************************
 *                                                                  *
 *        INPUT SCREEN                                              *
 *                                                                  *
 *           1)   ENTER THE FACILITY ID                            *
 *                                                                  *
 *           2)   ENTER THE F4C CODE                               *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                                                                  *
 *                  CHOOSE OPTION 1 OR 2:   1                        *
 *                                                                  *
 *                                                                  *
**********************************************************************
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-100. Resource Summary Input, Screen 1

This function allows you to print one report containing the total dollars predicted for each facility.

```
**********************************************************************
 *                      FACILITY TOTALS REPORT                       *
**********************************************************************
          ************************************************
          *                                              *
          *  INPUT SCREEN                                *
          *                                              *
          *    ENTER LOW  FACILITY ID :P12345ABC         *
          *    ENTER HIGH FACILITY ID :P99999XYZ         *
          *                                              *
          *    ENTER THE STARTING YEAR: 1986             *
          *    ENTER NUMBER OF YEARS TO REPORT(MAX 10): 10 *
          *                                              *
          ************************************************




F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-101. Resource Summary Input, Screen 2

You can select a range of facility numbers to be printed by stating the starting year and the number of years to report.

2-86

```
********************************************************************
*                      FACILITY TOTALS REPORT                     *
********************************************************************
          *****************************************************
          ¤                                                   ¤
          ¤  INPUT SCREEN                                     ¤
          ¤                                                   ¤
          ¤    PRINT IN DOLLARS(D),                           ¤
          ¤    OR THOUSANDS DOLLARS(T): D                     ¤
          ¤    REPORT CONTENTS        : 1                     ¤
          ¤         1-INDIVIDUAL FACILITIES                   ¤
          ¤         2-INDIVIDUAL FACILITIES PER SQ. FOOT      ¤
          ¤    PRINT OPTIONS          : 1                     ¤
          ¤         1-PRINTER                                 ¤
          ¤         2-FILE NAMED:                             ¤
          ¤         3-PRINTER & FILE NAMED :                  ¤
          ¤    PRINT TOTAL OPTIONS    : 1                     ¤
          ¤         1-PRINT WITH TOTALS                       ¤
          ¤         2-PRINT TOTALS ONLY                       ¤
          *****************************************************
```

```
                       Print In Dollars
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-102. Resource Summary Input, Screen 3

You also can select a range of F4C codes, and all facilities within the F4C range will be Printed.

```
********************************************************************
¤                      FACILITY TOTALS REPORT                     ¤
********************************************************************
          *****************************************************
          ¤                                                   ¤
          ¤  INPUT SCREEN                                     ¤
          ¤                                                   ¤
          ¤    ENTER LOW  F4C CODE      :6011100              ¤
          ¤    ENTER HIGH F4C CODE      :6011100              ¤
          ¤                                                   ¤
          ¤    ENTER THE STARTING YEAR:1986                   ¤
          ¤    ENTER NUMBER OF YEARS TO REPORT(MAX 10):  10¤
          ¤                                                   ¤
          *****************************************************
```

```
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-103. Resource Summary Input, Screen 4

You can obtain reports in dollars or thousands of dollars. Reports can be sent to the printer or file.

2-87

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
■                    FACILITY TOTALS REPORT                        ■
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
          ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
          ◻                                        ◻
          ◻  INPUT SCREEN                          ◻
          ◻                                        ◻
          ◻     PRINT IN DOLLARS(D),               ◻
          ◻     OR THOUSANDS DOLLARS(T): T          ◻
          ◻                                        ◻
          ◻     REPORT CONTENTS        : 2         ◻
          ◻           1-INDIVIDUAL FACILITIES       ◻
          ◻           2-INDIVIDUAL FACILITIES PER SQ. FOOT ◻
          ◻           3-3 DIGIT F4C SUMMARY         ◻
          ◻           4-3 DIGIT F4C SUMMARY PER SQUARE FOOT ◻
          ◻     PRINT OPTIONS          : 1         ◻
          ◻           1-PRINTER                     ◻
          ◻           2-FILE NAMED:                 ◻
          ◻           3-PRINTER & FILE NAMED:       ◻
          ◻     PRINT TOTAL OPTIONS    : 1         ◻
          ◻           1-PRINT WITH TOTALS           ◻
          ◻           2-PRINT TOTALS ONLY           ◻
          ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
                    Print in Thousand Dollars
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-104. Resource Summary Input, Screen 5

2.3.6.9 Combine Funding Reports.

```
ėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėė£
◻                         TRADE INDEX REPORT                           ◻
àėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėė¥
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◻                                                                     ◻
◻                                                                     ◻
◻                                                                     ◻
◻                                                                     ◻
◻                                                                     ◻
◻         Trade ID           : 01                                     ◻
◻                                                                     ◻
◻         Starting F4C ID    : 0000000                                ◻
◻                                                                     ◻
◻         Ending  F4C ID     : 9999999                                ◻
◻                                                                     ◻
◻                                                                     ◻
◻                                                                     ◻
◻         Report File T0100000.XDB will be Generated                  ◻
◻                                                                     ◻
◻                                                                     ◻
◻         Processing Facility ID: 32                                  ◻
◻                                                                     ◻
◻                                                                     ◻
àėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėėė¥
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-105. Combine Funding Reports

This function will combine all of the existing AMS funding reports for one appropriation ID. The combined report is stored under an AMS equal to "00".

2.3.6.10 Trade Index Report.

```
ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
□                              TRADE INDEX REPORT                               □
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
□           Trade ID          : 17                                             □
□                                                                              □
□           Starting F4C ID    : 0000000                                       □
□                                                                              □
□           Ending   F4C ID    : 9999999                                       □
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
□                                                                              □
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-106. Trade Index Report.

This report function allows you to create a file that contains only information about tasks related to one trade. The file is named:

<p align="center">TAAFFFFF.XDB</p>

where

T	Indicates a trade file.
AA	Indicates the Trade ID entered on the input screen.
FFFFF	Indicates the first five characters of the starting F4C ID entered on the input screen.

MRPM will display the facility ID being processed on the screen as the report file is being generated.

2.3.7 Query: Questions and Answers. This set of three screens allows you to ask a question and obtain an answer. The first screen allows you to ask a question by specifying the ranges of information of interest to you. The first step is to write your question: "What administrative facilities will require shingle roof replacement in 1993?"

Assume: Administrative F4C is 6101100
         Shingle roof replacement is CACES No. 0311357.

The next step is to transform your question into ranges such as the following:

```
****************************************************************************
*                        Facility Information                             *
*                             Query                                       *
****************************************************************************
****************************************************************************
*                                              PAGE 1 of 3                 *
*                                                                          *
*       Low F4C Code    [6101100]                                          *
*       High F4C Code   [6101100]                                          *
*       CACES Id        [0311357]                                          *
*       Starting Year   [1993]   (YYYY)                                    *
*       Ending Year     [1993]   (YYYY)                                    *
*                                                                          *
*       SELECT method of query: 1 (1 , 2 or 3)                             *
*       1  Query facilities HAVING task 0311357                            *
*       2  Query facilities NOT HAVING task 0311357                        *
*       3  List  facilities ID  HAVING task                                *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
****************************************************************************
                              PgDn = Next Screen    F10  = Exit
```

Figure 2-107. Facility Information Query

The second step is to go to the next screen and indicate the information columns that should be displayed as an answer to your question.

```
****************************************************************************
*                        Facility Information                             *
*                             Query                                       *
****************************************************************************
****************************************************************************
*       Indicate the Data Fields You Want to See (Y/N)  PAGE 2 of 3        *
*                                                                          *
*                     SELECT ALL Y/N     (N)                               *
*                     Occurrences        (Y)                               *
*                     Labor Hours        (N)                               *
*                     Equipment Hours    (N)                               *
*                     Labor Costs        (N)                               *
*                     Material Costs     (N)                               *
*                     Equipment Costs    (N)                               *
*                     Total Costs        (N)                               *
*                     Square Feet        (Y)                               *
*                                                                          *
*                                                                          *
*                                                                          *
*                                                                          *
****************************************************************************
          PgUp  = Previous Screen  PgDn = Next Screen    F10  = Exit
```

Figure 2-108. Facility Information Query--Data Fields

The third step is to go to the next screen and indicate the sorting order for the rows of information in your answer.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲C
■                         Facility Information                              ■
■                            Query                                         ■
▲ccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccV
▲▲ccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccccC
□               Indicate the Order You Want the Data Sorted      PAGE 3 of 3  ■
□               Select 1, 2, or 3                                            ■
□                                                                           □
□                         F4C Code            (2)                           ■
□                         Facility ID         (1)                           ■
□                         Total Costs         (3)                           ■
□                                                                           □
□                         PRINT REPORT FOR:     (1)                         □
□                         (1) ALL Facilities                                □
□                         (2) For a Range of AREAS                          ■
□                                                                           □
□                                                                           □
□                                                                           □
□                                                                           □
□                                                                           □
□                                                                           □
□                                                                           □
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         PgUp    = Previous Screen    F6 = Begin Print    F10  = Exit
```

Figure 2-109. Facility Information Query--Order of Data

2.3.8 Model Facility. This screen allows you to construct a model using one of three different methods:

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲C
■              ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲C                        ■
■              ■       Installation Level      □                        ■
□              ■       Model Facility          □                        □
□              ▲cccccccccccccccccccccccccccccccV                        □
□                                                                       □
□                                                                       □
□                                                                       □
□                   From IFS Database                                   ■
□                                                                       □
□                   From Input File                                     □
□                                                                       □
□                   At Terminal                                         □
□                                                                       □
□                   Input from EHS                                      □
□                                                                       □
□                                                                       □
□                                                                       □
□                                                                       □
□                                                                       □
□                   Updated 24 June 1988                                □
□                                                                       □
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F1      F2      F3          F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-110. Installation-Level Model Facility

2.3.8.1 Model Facility From IFS Database. Data can be transferred in two different forms: (1) summary data and (2) individual facility data.

2.3.8.1.1 Summary Data. Two different types of transfer files can be produced from the HQ-IFS system: (1) building file and (2) nonbuilding file. Both files contain identical information in the following order (five sets of four items in each record):

2-91

1. F4C Code (five characters)
2. Year of Construction (four characters)
3. Square Feet of Floor Area (nine characters)
4. Secondary Unit of Measure (nine characters).

For building facilities, the transfer file contains one summary "facility" for each year of construction for an F4C code (e.g., one entry for F4C = 7112900, Year = 1954; another entry for F4C = 7112900, Year = 1955). The total floor area for all individual facilities constructed during the year is reported (in square feet). The total secondary unit of measure for all individual facilities constructed during the year is reported.

For nonbuilding facilities, the transfer file contains one summary "facility" for each F4C code (e.g., one entry for F4C = 8211200). The year is set at 1970 as a default value. The total floor area for all individual facilities constructed during all years is reported (in square feet). The total secondary unit of measure for all individual facilities constructed during all years is reported.

MRPM combines the F4C code and the year of construction (**** for nonbuildings) to form the facility ID. For nonbuildings, the secondary unit of measure is entered into the MRPM floor area field.

2.3.8.1.2 Individual Facility Data. Two different types of transfer files can be produced from the HQ-IFS system: (1) building file and (2) nonbuilding file. Both files contain identical information in the following order (five sets of four items in each record):

1. Facility ID (nine characters)
2. F4C code (five characters)
3. Year of construction (four characters)
4. Square feet of floor area (nine characters)
5. Secondary unit of measure (nine characters).

For nonbuildings, the secondary unit of measure can be entered into the MRPM floor area field.

2.3.8.1.3 Data Entry.

Figure 2-111. IFS Options

The first screen allows you to select the correct type of data to be loaded into the system. The screens for the two data types are identical.

Figure 2-112. Model Facility From IFS Input

The second screen allows you to specify the name of the input file and the type of file as either buildings or nonbuildings. The system will load the data into the general facility file with the default values shown below:

(1) Subinstallation   [01]
(2) Area   [01]
(5) Number in F/G   [1]
(6) Travel Zone   [3]
(9) W/P Method Index   [1]
(10) Special Cond Mult   [01]
(11) Scheduled Disposal Date [mm/dd/yy]   ]
(14) Fac Fund Profile   [01]
(15) Calc Modeling ID   [3] for buildings
                                    [4] or [5] for nonbuildings

2.3.8.2 Model Facility From an Input File.


```
FGG Batch File Prompt & Execution  20-Oct-86
Enter 4 Character Facility Sequence Number :1067
```


Figure 2-113. Model Facility From an Input File

This screen allows you to form a model from a computer file that contains CACES number, quantities, and descriptions. Simply type the correct facility sequence number.

2.3.8.3 Model Facility at Terminal.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲
■                    FACILITY COMPONENT QUANTITY                              ■
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲
□                                                                            □
□                                                                            □
□                                                                            □
□           .                                                                □
□                                                                            □
□           FACILITY ID:    P12345ABC                                        □
□                                                                            □
□                                                                            □
□                                                                            □
□                                                                            □
□                                                                            □
□                                                                            □
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F1      F2      F3      F4      F5      F6      F7      F8      F9     F10EXIT
```

Figure 2-114. Component/Task Quantity Takeoff

Enter the facility ID that you wish to model.

```
                    Facility Component, Quantity, and Dates          11/15/88
Facility ID: [P12345ABC]
                 LEVEL 1  0000000    TOTAL SUMMARIES
                 LEVEL 2  0300000    ROOFING
                 LEVEL 3  0310000    ROOFING
                 LEVEL 4  0311000    ROOF COVERING
                 LEVEL 5  0311300    STEEP ROOFING
                 LEVEL 6  0311350    SHINGLES

                          Command Mode
CACES NO  Quantity U/M    Description     Date Last Performed Next Scheduled
------------------------------------------------------------------------------

0311350    2360.0 2  SHINGLES                                1965 U 1990 U

           NOTES:    inspected 1988. needs replacement in 90.




F1 TOP  F2 BOT  F3 FIND  F4 LIST  F5 EDIT  F6 DATESF7 ADD  F8 DEL  F9      F10EXIT
```

Figure 2-115. Facility Information

This screen allows you to enter the CACES number, quantities, last performed date, and next scheduled date for the facility components and tasks.

2-95

2.3.9 Copy a Facility Record.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲€
■                          Facility Id Copy Function                        ■
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲€
□                                                                           □
□       Starting New Facility Id : P54321                                   ■
□                                                                           ■
□     · Ending New Facility Id   : P54999    Leave blank for 1 facility     ■
□                                                                           □
□       Existing Facility Id     : P12345ABC                                □
□       Existing Facility located in (X1,Y1 or nn): Y1 (blank for current)  □
□       Place in directory       : 22 (blank for current)                   □
□                 Facility Id has the form >AA9999AAA<                      □
□     Note: positions 3-6 must be numeric (0-9) when a range is  specified  □
□                                                                           □
□                                                                           □
□               ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲€                                   □
□               □                        □                                  □
□               □                        □                                  □
□               □                        □                                  □
□               ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼                                   ■
□                                                                           ■
□                                                                           ■
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F1      F2       F3       F4       F5       F6BEGIN F7       F8      F9      F10EXIT
```

Figure 2-116. Facility ID Copy Function

This screen allows you to make new facilities by copying existing facilities. The standard IFS facility ID format has been used with the exception that fields 3 through 6 can be numerical to automatically generate many new facilities from one existing facility with one command.

You can enter one single new facility ID or a range of new facility IDs. The existing facility ID must be entered. The directory in which the new facilities must be placed must also be specified.

If a range of new facilities is specified, the system will increment the number defined in columns 3 through 6 until the ending facility ID number in columns 3 through 5 is reached. A new facility will be created for each number in the range.

2.3.10 Global Change to Components.

```
****************************************************************
 ■              FACILITY ID COMPONENT CACES NUMBER CHANGER      ■
 ▫                                                              ■
****************************************************************
****************************************************************
 ▫       STARTING FACILITY ID...........>P12345ABC             ▫
 ▫       ENDING FACILITY ID.............>P99999XYZ             ▫
 ▫                                                              ▫
 ▫       CURRENT COMPONENT CACES NUMBER >0311110               ▫
 ▫       NEW COMPONENT CACES NUMBER.....>0321110               ▫
 ▫                                                              ▫
 ▫       Change last performed date ? (y/n) >Y                 ■
 ▫       NEW LAST PERFORMED DATE..>1986 (YYYY) ex.(1986,2001))  ▫
 ▫                                                              ▫
 ▫                                                              ▫
 ▫                                                              ■
 ▫                                                              ■
 ▫                                                              ▫
 ▫                                                              ▫
 ▫                                                              ■
 ▫                                                              ▫
****************************************************************
 F1     F2     F3     F4     F5     F6     F7     F8     F9   F10EXIT
```

Figure 2-117. Facility ID Component CACES Number Changer

This function allows you to change the type of component and/or the replacement date for a range of facilities with one single command. This command could be used to show that 100 buildings with built-up roofs were changed to shingle roofs in 1985.

2.3.11 Facility Group to Dwelling Unit Conversion.

```
****************************************************************
 ■              Facility Group To Dwelling Unit Conversion      ■
****************************************************************
****************************************************************
 ▫                                                              ▫
 ▫                                                              ■
 ▫                                                              ▫
 ▫                                                              ■
 ▫                                                              ▫
 ▫                                                              ▫
 ▫           ENTER FACILITY ID:   P12345ABC                    ▫
 ▫                                                              ▫
 ▫           DIVIDE COMPONENT QUANTITY BY:     4               ▫
 ▫                                                              ▫
 ■                                                              ■
 ▫                                                              ▫
 ■                                                              ▫
 ■                                                              ■
 ▫                                                              ▫
****************************************************************
 F1     F2     F3     F4     F5     F6BEGIN F7     F8     F9   F10EXIT
```

Figure 2-118. Facility Group to Dwelling Unit Conversion

This command allows you to divide all quantities in a building (such as a fourplex family housing building) by the number of units (4) to produce the component quantities associated with each dwelling unit.

2.3.12 Delete Resource Files.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲ɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛ▲▲▲▲▲£
■                          Delete Resource Files                          ■
□                                                                         □
□                                                                         □
□                                                                         □
□                                                                         □
□                                                                         □
□                                                                         □
□                                                                         □
□                                                                         □
□        Starting Subdirectory Id : 22  (blank for current directory)     □
□                                                                         □
□        Ending Subdirectory Id   : 23  (blank for one directory)         □
□                                                                         □
□                 Deleting from Directory  E:\22                          □
□                                                                         □
□                 To Directory  E:\23                                     □
□                                                                         □
□                                                                         □
▲ɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛ▲▲▲▲▲▲▲▲▲▲▲▲▲▲ɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛɛ¥
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-119. Delete Resource Files

This command allows you to delete all resource summary tables in a range of subdirectories. It can be used to free memory space in the computer.

2.3.13 Move Facilities to New Directory. This command allows you to move existing facilities from one directory to another directory by either an F4C range or a Facility ID range.

```
èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
□                              MOVE FACILITIES                            □
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥


        MOVE BY:
        F4C RANGE           [toggle space bar to change]

        èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
        □                                                         □
        □BEGINING    F4C CODE:  6000000                           □
        □                                                         □
        □ENDING      F4C CODE:  6999999                           □
        □                                                         □
        □TARGET   DIRECTORY  :  23  [blank for current directory]  □
        àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥


              MOVING FACILITY ID  : 33


                                                       PROCESSING

F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-120. Move Facilities by F4C ID

If F4C ID option is selected, you must enter the F4C ID range and the directory to which the facilities are to be moved.

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤                              MOVE FACILITIES                                ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥


        MOVE BY:
        FACILITY ID RANGE  [toggle space bar to change]

        èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
        ¤                                                     ¤
        ¤BEGINING FACILITY ID:  P06000                        ¤
        ¤                                                     ¤
        ¤ENDING   FACILITY ID:  P07000                        ¤
        ¤                                                     ¤
        ¤TARGET   DIRECTORY  :  56  [blank for current directory]  ¤
        àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥




    F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-121. Move Facilities by Facility ID

If Facility ID option is selected, you must enter the Facility ID range and the directory to which the facilities are to be moved.

2.3.14 Delete Resource Total File.

```
████████████████████████████████████████████████████████████████████████████£
¤                                                                            ■
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¤                                                                            ¤
¤                 àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£                      ¤
¤                 ¤       Delete Resource Total File       ¤                  ¤
¤                 àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥                      ¤
¤                                                                            ¤
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F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-122. Screen Display for Deleting Resource Total File.

This screen will allow you to delete the resource summary file when you are completely through with all reports and you desire to use the space for another application.

2.4 Review and Approval.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
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▫                    ▫       Review and Approval      ▫                  ▫
▫                    ▫       Installation Level       ▫                  ▫
▫                    ▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼                  ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫              Generate Resource Summary                                 ▫
▫                                                                        ▫
▫              Display Resource Summary                                  ▫
▫                                                                        ▫
▫              Report for Total & Components                             ▫
▫                                                                        ▫
▫              Ordered Component & Task Reprt                            ▫
▫                                                                        ▫
▫              Copy Financial Reports                                    ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫                          Updated 12 Sep. 1988                          ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-123. Installation-Level Review and Approval

2.4.1 Obtaining Financial Report Files From Subordinate Organizations and Facility Directories.
After all financial funding reports have been generated within the subordinate organization or facility
directories (01 through 99), they can be copied to the current organization's directory by using the Copy
Financial Report Files function under Facility Reports. All funding files will be copied from the
subordinate directories to the parent directory.

2.4.2 Generate Resource Summary.

```
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▫                         REVIEW AND APPROVAL                             ▫
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▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫          OPTIONS:                                                      ▫
▫                                                                        ▫
▫              1 - CREATE REPORT FOR ORGANIZATION ID                     ▫
▫                                                                        ▫
▫              2 - PRINT EXISTING REPORT                                 ▫
▫                                                                        ▫
▫          ENTER OPTION 1 or 2 ·  1                                      ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
▫                                                                        ▫
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▫                                                                        ▫
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-124. Review and Approval

This screen allows the installation recorded in the reports period organization ID to prepare appropriation/AMS resource summary reports to send to the next higher organization. Funding report files were created previously through the Funding Report Screen or the calculation program. The report files from each subordinate organization can be summarized into a consolidated report through this program. Your consolidated reports would be sent to higher headquarters for review, approval, and consolidation into the next higher organization's financial report file.

```
*****************************************************************************
 ▫                      REVIEW AND APPROVAL REPORT GENERATION                ▫
*****************************************************************************
*****************************************************************************
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫             ENTER THE APR ID:    01                                      ▫
 ▫                                                                          ▫
 ▫             ENTER THE AMS ID:    69                                      ▫
 ▫                                                                          ▫
 ▫             ENTER CALCULATION CUTOFF DATE (mmddyyyy) 12301986            ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
*****************************************************************************
 F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-125. Review and Approval Report Generation

After selecting Create Report for Organization ID, you must enter the appropriation ID, AMS ID, and earliest acceptable calculation date into the system. The system will then check to ensure that all calculations were generated on or after the date entered. MRPM will list the names of any resource summaries that were not calculated after this date. If errors were encountered, you can either stop processing or continue.

```
*****************************************************************************
 ▫                                                                          ▫
*****************************************************************************
*****************************************************************************
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫              REQUESTED REPORT IS AS FOLLOWS:                             ▫
 ▫                                                                          ▫
 ▫                 ORG CODE  = Z1                                           ▫
 ▫                                                                          ▫
 ▫                 APR ID NO.= 01                                          ▫
 ▫                                                                          ▫
 ▫                 AMS ID NO.= 69                                          ▫
 ▫                                                                          ▫
 ▫              PLEASE ENTER ADDITIONAL INFORMATION                        ▫
 ▫                                                                          ▫
 ▫              ENTER STARTING YEAR FOR THE REPORT      : 1986             ▫
 ▫              ENTER NUMBER OF YEARS TO REPORT (10 MAX):    10            ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
 ▫                                                                          ▫
*****************************************************************************
 F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-126. Maintenance Resource Prediction Reports

If you continue, the system will ask you to enter the starting report year and the number of years to report. The F6 key will start processing. If funding files already exist, you will be asked if it is OK to delete the old files and create new files.

2.4.3 Display Resource Summary.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫     REVIEW AND APPROVAL     ▫
▫        DISPLAY OR GRAPH     ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼


▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
▫ ENTER ORGANIZATION ID:  Z1   ▫
▫ ENTER APR  ID        :  01   ▫
▫ ENTER AMS  ID        :  69   ▫
▫ ENTER TREE ID        :  BF   ▫
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼



F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-127. Review and Approval Display or Graph

This screen allows you to display your own or a subordinate financial resource summary in tabular and graphic forms. You must enter the organizational code to be displayed, appropriation ID, and AMS ID. To display the correct descriptions with the CACES numbers, you need to enter a Component Tree ID. The building component tree ID of BF is shown as a default.

```
Installation   : 21   Fort(Prepaired As Requested)              Costs in
Appropriation  : 01   Real Property Maintenance Account-1        Thousands of
AMS            : 69   ADMINISTRATION                             Dollars
CACES NO: 0000000     TOTAL SUMMARIES

           Year    1986    1987    1988    1989    1990
1 Occ Count        4576    2374    2974    2838    2937
2 Lab Hours        3808    2193    5253    3123    3031
3 Eqp Hours        3808    2193    5253    3123    3031
4 Lab Costs          64      36      84      52      49
5 Mat Costs         163       8     112       4      55
6 Eqp Costs          13       7      16      11       9
7 Tot Costs         241      52     213      68     115
-----------------------------------------------------------
           Year    1991    1992    1993    1994    1995
1 Occ Count        2565    3397    2758    2373    3134
2 Lab Hours        2263    3539    6627    1993    3186
3 Eqp Hours        2263    3539    6627    1993    3186
4 Lab Costs          36      59     113      32      54
5 Mat Costs          30      67      78       6      17
6 Eqp Costs           7      12      23       6      11
7 Tot Costs          75     139     215      44      83

                        Command Mode
F1=TOP  F2-ROT  F3=FIND  PgUp=PREV  PgDn=NEXT  G=GRAPH  F10=EXIT
```

Figure 2-128. Resource Summary File

The screen print function key can be used to obtain a printout of the screen.
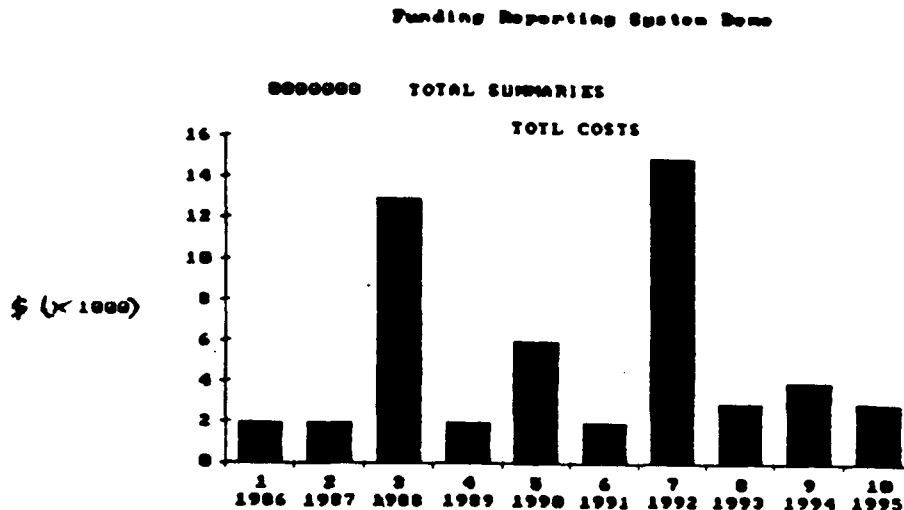
Figure 2-129. Resource Summary Graph

Selecting G for graph will display a message for you to enter the line number to be graphed. This graph can be printed by pressing the letter P for print followed by the letter P for printer. If you decide not to print, press the Control and C keys at the same time. Enter Q to quit and Y to confirm that you want to quit. This will return you to the table display.

2-103

2.4.4 Report for Total and Components. This screen allows you to obtain a printed report of the resource summary. Appendix C shows sample reports.

```
████████████████████████████████████████████████████████████████████████████████£
█                        REVIEW AND APPROVAL REPORT PRINT                         █
████████████████████████████████████████████████████████████████████████████████¥
████████████████████████████████████████████████████████████████████████████████£
█                                                                                 █
█                                                                                 █
█                                                                                 █
█                                                                                 █
█                                     .                                           █
█                                                                                 █
█                                                                                 █
█                                                                                 █
█                                                                                 █
█          ENTER ORG ID OR <CR> FOR YOUR INSTALLATION:    Z1                      █
█                                                                                 █
█          ENTER THE APR ID:     01                                              █
█                                                                                 █
█          ENTER THE AMS ID:     69                                              █
█                                                                                 █
█                                                                                 █
█                                                                                 █
█                                                                                 █
████████████████████████████████████████████████████████████████████████████████¥
F1        F2        F3        F4        F5        F6BEGIN F7       F8        F9        F10EXIT
```

Figure 2-130. Report for Total and Components

```
████████████████████████████████████████████████████████████████████████████████£
█                     MAINTENANCE RESOURCE PREDICTION REPORTS                      █
████████████████████████████████████████████████████████████████████████████████¥
████████████████████████████████████████████████████████████████████████████████£
█                                                                                 █
█                                                                                 █
█                                                                                 █
█          REQUEST PRINTED REPORT IS AS FOLLOWS:                                  █
█                                                                                 █
█               ORG CODE  =  Z1                                                   █
█                                                                                 █
█               APR ID NO.=  01                                                   █
█                                                                                 █
█               AMS ID NO.=  69                                                   █
█                                                                                 █
█          PLEASE ENTER ADDITIONAL INFORMATION                                    █
█          ENTER STARTING YEAR FOR THE REPORT        : 1986                       █
█          ENTER NUMBER OF YEARS TO REPORT (10 MAX): 10                           █
█                                                                                 █
█                                                                                 █
█                                                                                 █
████████████████████████████████████████████████████████████████████████████████¥
F1        F2        F3        F4        F5        F6        F7        F8        F9        F10EXIT
```

Figure 2-131. Maintenance Resource Prediction Reports

2.4.5 Ordered Component and Task Report.

```
ORDERED TASK REPORT GENERATOR


PLEASE SELECT THE TYPE OF REPORT

          YEARLY BY FACILITY ID
          YEARLY BY F4C CODE
          YEARLY BY FUNDING REPORT
          PERIOD BY FACILITY ID
          PERIOD BY F4C CODE
          PERIOD BY FUNDING REPORT




F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-132. Ordered Component and Task Report

Use this function to obtain an ordered list of tasks and components for any funding report file.

If Yearly by Funding Report is selected, enter the organization ID, appropriation ID, and AMS code.

```
ORDERED TASK REPORT GENERATOR


PLEASE SELECT THE TYPE OF REPORT

          YEARLY BY FACILITY ID
          YEARLY BY F4C CODE
          YEARLY BY FUNDING REPORT
          PERIOD BY FACILITY ID
          PERIOD BY F4C CODE
          PERIOD BY FUNDING REPORT

          ORGANIZATION ID  = Z1
          APPROPRIATION ID = 01
          AMS CODE         = 69
          TREE ID          = BF


F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-133. Yearly by Funding Report

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
■        YEARLY BY FUNDING REPORT        □
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼

¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢£
□ STARTING YEAR .......(YYYY) ==>  1986           □
□                                                 □
□ NUMBER OF YEARS ..(MAX  10) ==>   10            □
□                                                 □
□                                                 □
□                                                 □
□                                                 □
□ LOWER PERCENT CUTOFF ..(nn) ==>    2            □
□                                                 □
□ TASK REPORT OPTIONS ....(n) ==>    2            □
□ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) □
▲¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢▼


F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-134. Print Yearly by Funding Report

Now enter the first year to report and the total numbers of years. One report will be generated for each year. Enter the lowest percentage of annual cost to be printed.

```
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□              ▲¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢£              □
□              ■   ORDERED TASK REPORT GENERATOR   □        □
□              ▲¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢▼              □
□                                                           □
□                                                           □
□     ¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢£            □
□     □        PLEASE SELECT THE TYPE OF REPORT   □         □
□     □                                          □         □
□     □        YEARLY BY FACILITY ID             □         □
□     □        YEARLY BY F4C CODE                □         ■
□     □        YEARLY BY FUNDING REPORT          □         ■
□     □        PERIOD BY FACILITY ID             □         □
□     □        PERIOD BY F4C CODE                □         ■
□     □        PERIOD BY FUNDING REPORT          □         □
□     □                                          □         □
□     □        ORGANIZATION ID  = Z1             □         □
□     □        APPROPRIATION ID = 01             □         □
□     □        AMS CODE         = 69             □         ■
□     □        TREE ID          = BF             □         □
□     ▲¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢¢▼           ■
□                                                           ■
□                                                           □
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F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 2-135. Component and Task Period by Funding Report

If the Period by Funding Report is selected, enter the organization ID, appropriation ID, and AMS code.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
■       PERIOD BY FUNDING REPORT        □
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼

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□ STARTING YEAR .......(YYYY) ==>  1986         □
□                                                □
□ ENDING YEAR ........(YYYY) ==>  1995          □
□                                                □
□                                                □
□                                                □
□                                                □
□ LOWER PERCENT CUTOFF ..(nn) ==>   2           □
□                                                □
□ TASK REPORT OPTIONS ....(n) ==>   2           □
□ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) □
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
```

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure 2-136. Print Period by Funding Report

Now enter the starting and ending years for the period and the lowest percentage of total costs to be printed. One report covering the total period will be printed.

2.4.6 Copy Financial Reports.

```
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲£
■            Financial Report Files Copy Function            ■
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
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□                                                            □
□                                                            ■
□                                                            ■
□           ORGANIZATION ID ( XX )   : ZZ                    ■
□                                                            ■
□                                                            ■
□                                                            □
□                                                            ■
□                                                            ■
□                                                            ■
□                                                            ■
□                                                            ■
□                                                            ■
▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▼
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 2-137. Financial Report Files Copy Function

This screen allows a reporting installation to copy financial files from installations whose files are located on the same machine.

2.4.7 Transmit Resource Files to Higher Organization. All files can be copied from your directory to a floppy disk by issuing a "Backup ROXX*.* a:" command (replace XX with your organization code). This can be done before entering or after leaving the MRPM system.

2.5 Research. This function is used by USACERL only and is not described in this user's manual.

1.Source: AR 415-17.

3. MAJOR COMMAND (MACOM) FUNCTIONS.

    3.1 Introduction. Each reporting installation will transmit one report file for each required appropriation/AMS report. The review and approval functions described in Section 2.4 allow you to display the reporting installation information, generate your MACOM summary of all reporting installations, print reports, and transmit your summary information to HQDA.

    You must be familiar with the methods by which the organization codes, appropriation codes, and AMS codes are stored in MRPM. Chapter 2 describes these conventions.

    The next step in the process is to enter the Report Period screen by selecting Basic Information, General Information, Report Periods. EDIT this screen and enter your organization ID and report dates.

    3.2 Generate Resource Summary (See Section 2.4.2). This set of screens allows you to prepare your appropriation/AMS resource summary reports to send to HQDA. Reporting installations will have used the review and approval section to generate the report files that were transmitted to your office.

    Each report file contains the date that it was generated. The system will check this date against the date you enter as the cutoff date to ensure that your reporting organizations have sent you the correct reports. If report files are missing or are not current, MRPM will print a message for your action.

    3.3 Display Resource Summary (See Section 2.4.3). You can display any resource report for one of your reporting installations or your MACOM summary in tabular and bar chart forms.

    3.4 Report for Total and Components (See Section 2.4.4). You can obtain a printed copy of any report in this screen.

    3.5 Ordered Component and Task Report (See Section 2.4.5). You can obtain the most costly tasks performed through this function.

    3.6 Transmit Resource Summary (See Section 2.4.6). A copy of your MACOM files can be transmitted to HQDA for review and approval.

4. ARMY COMMAND (HQDA) FUNCTIONS.

4.1 Introduction. Each reporting MACOM will transmit one report file for each required appropriation/AMS report. The review and approval functions of MRPM allow you to display the Army information, generate your MACOM summary of all reporting installations, and print reports.

You must be familiar with the methods by which the organization codes, appropriation codes, and AMS codes are stored in MRPM. Chapter 2 describes these conventions.

The next step in the process is to enter the Report Period screen by selecting Basic Information, General Information, Report Periods. EDIT this screen and enter your organization ID and report dates.

4.2 Generate Resource Summary (See Section 2.4.2). This set of screens allows you to prepare your appropriation/AMS resource summary reports. Reporting installations will have used the review and approval section to generate the report files that were transmitted to your office.

Each report file contains the date that it was generated. The system will check this date against the date you enter as the cutoff date to ensure that your MACOMs have sent you the correct reports. If report files are missing or are not current, MRPM will print a message for your action.

4.3 Display Resource Summary (See Section 2.4.3). You can display any resource report for one of your MACOMs or your Army summary in tabular and bar chart forms.

4.4 Report for Total Components (See Section 2.4.4). You can obtain a printed copy of any report in this screen.

4.5 Ordered Component and Task Report (See Section 2.4.5). You can obtain the most costly tasks performed through this function.

5. PROCEDURES.

5.1 Hardware and Software Requirements. The MRPM is a highly resource-intensive system. It requires the following hardware:

1. IBM PC/AT or equivalent
2. Math Coprocessor
3. Enhanced Color Graphics
4. 1200 B Modem
5. Hard Disk Drives (140 MB minimum)
6. 3 MB additional RAM
7. Printer (132-character)
8. Tape Backup System.

Software packages used by MRPM include:

1. MicroSoft Chart (for graphics)
2. Disk Operating System (DOS)
3. Maynard tape drive software
4. Core partitioning software.

5.2 Loading the MRPM System Into Your PC.

1. Check the System. Before you begin to set up the system you should check to see if the computer is functioning properly. First, if the unit has not been set up, follow the instructions in your computer's "Guide to Operations" manual to correctly set up the computer. Once the computer is set up, turn it on by flipping the red switch to "ON." If your computer uses a color monitor you must turn the monitor on separately. This can be accomplished by turning the uppermost dial on the monitor to the right until you hear it click. If the screen does not "light up" check to make sure that the monitor is plugged in to an outlet. Your screen should now display the "BASIC" menu.

2. Create the CONFIG.SYS File. To create the CONFIG.SYS file, insert the "Command Files" diskette into drive A. Then at the "C>" prompt, type "cd.." to see the "root" directory. At the next "C>" prompt, type the command "copy A:CONFIG.SYS C:" to create the file. To check the CONFIG.SYS file at the "C>" prompt, type "type CONFIG.SYS". You should see the following:

```
Break  =  ON
Files  =  30
Device =  ANSI.SYS
Device =  VDISK.SYS 2944 512 /E
Buffer =  30
```

If there are any errors in this file, the system will not run correctly. Use the DOS EDLIN line editor to correct any errors in the file.

3. Creating the First Autoexec.bat File. This first file will allow you to see the directory that you are currently using. First, reinsert the "Additional Command" diskette into drive A. Now, at the "C>" prompt, type "copy A:AUTOEXEC.BAT C:. Once the "C>" returns, reboot the system by holding down

the "CTRL - ALT" keys and pressing the "DEL" key. The system should restart and set the prompt to ">" below "C:\".

4. Loading the Command Files to the Root Directory. Make sure the "Command Files" diskette is in drive A. Then check to see that you are in the root directory ("C:\") by typing "cd\". Then type "copy A:*.* C:". The following files should be listed after you type "dir":

File	Size
AUTOEXEC.BAT	234
CONFIG.SYS	120
ANSI.SYS	1651
VDISK.SYS	3307
SAVE.BAT	45
TMENU.BAT	46

5. Create the Needed Directories. The following directories will be needed to allow the MRPM system to function properly. Follow the steps to ensure that all needed directories are processed.

a. Get into the root directory (C:\) of C drive. Type "C:" and press enter. Then type "cd\".

b. Since the DOS directory should already be in place, create the directory to store the MAYNARD Tape Drive system by typing "md MAYNARD". Now make the directory current by typing "cd MAYNARD". Remove the MAYNARD diskette from the file folder and insert it into A drive. Type "copy A:*.* C:" to load the MAYNARD files onto the hard disk. Next, type "cd.." to prepare for the next step.

c. Make certain that you are in the "D:\" root directory before continuing.

d. The following directory will be created now and will be filled later. Type "md MPM".

e. Now move into the E: drive by typing "E:" after the DOS prompt. Make certain that you are in the "E:\" root directory before proceeding.

f. Next, create the directories for the data storage.

    (1) Type "md MPMV2". When the DOS prompt returns,
    (2) Type "cd MPMV2" to make the directory current. When the DOS prompt returns (E:/MPMV2),
    (3) Type "md MPM". When the DOS prompt returns,
    (4) Type "cd\" to return to root directory (E:\),
    (5) Type "md DATA". When the DOS prompt returns,
    (6) Type "cd DATA" to make the directory current. When the DOS prompt returns (E:\DATA):,
    (7) Type "md LEARN". When the prompt returns (E:\DATA),
    (8) Type "D:" to prepare for the next step.

g. The following step involves filling each of the new directories with data. The following directories will be copied on at a time:

D: drive "MPM"

E: drive   "DATA\LEARN"
             "DATA\LEARNBAS"
             "MPMV2\MPM"

h. The next step is to fill each of the directories one at a time by using the copy command. Type "cd XXXXXX" with "XXXXXX" being the name of the first directory you wish to "restore," then go to step C.

(1) Make certain that you are in the proper DRIVE "E:\" or "D:\". IF NOT, CHANGE THE DRIVE by typing "X:" and pressing "Enter" where "X" is the name of the DESIRED DRIVE.

(2) Type "cd\XXXXXX" with "XXXXXX" being the name of the directory you wish to restore.

(3) Type "copy a:*.*". Insert the first diskette of the "XXXXXX" directory. Press the enter key. For each additional diskette to be entered, press the F3 key which will show the "copy a:*.*". Insert the next diskette. Press enter key.

(4) This next directory will contain the graphics package CHART. Place the "Utilities" diskette in drive A and type "SETUP". Follow the directions carefully. When the program asks for the drive on which to store the program, answer "E". When the program asks for the directory name, specify "MPMV2/MPM". When the program asks for your "printer device," use the menu keys to search for your printer (EPSON FX-100, HR) and specify "13". Now when the program asks you to type "CHART" to initialize it, instead type "CHART TEMPCHRT".

i. To continue, press "Q" and then enter a "Y" to confirm. Now CHART is initialized and you can continue.

6. Starting the MRPM System. This is the last step in the procedure. Once all directories are "restored," you need to REBOOT the system. This is done by holding down the "CTRL - ALT" keys and pressing the "DEL" key. The system should restart with all directories in place. The system will now use the new "AUTOEXEC" file to configure the final MRPM program. The system should bring you up in the "E:\DATA" directory and you're ready to begin.

5.3 Entering the MRPM System. Once the MRPM system has been loaded into your computer, all you have to do is turn your computer power switch on. The system will place you in the Installation Selection Menu. Move to the correct installation and type "MRPM."

5.4 Loading Installation Data Tables. The following paragraphs describe the work to be done to produce the best modeling system.

5.4.1 Basic Information.

5.4.1.1 General Information - Two tables need to be updated.

1. Organizational Chart. All major reporting installations are responsible for the management and reporting of several smaller installations. When you first load the system, you will need to enter each of

the smaller installations and the facility directories under each installation. Always use "Y" as the first character of the ORG CODE and the numbers 0 through 9, then letters A through Z as the second character. Always use your reporting installation's ORG CODE as the MACOM ID # (parent organization) for the smaller installation and the installation's ORG CODE as the MACOM ID # (parent organization) for each facility directory.

An example for one installation setup is shown in ORG # 149 through 167. Delete this example before entering your actual data.

2. Report Periods. Enter the beginning and ending report year. Look up your installation's material adjustment factor in Table 2-2 and enter it. Then look up your organization's ID in Table 2-1 and enter it. The number of lines per page can be calculated by multiplying the length of the paper (11 in.) by the number of printed lines per inch (6 lines per in.) to obtain the number to be entered (66).

5.4.1.2 Facility Resource Data. Two tables need to be updated:

1. Trade and Costs Data. Obtain the shop effective rates from your IFS and enter as in-house labor rates. Obtain an estimate of the contractor's equivalent shop rates from your estimating section. If costs for purchase, maintenance, and operations of equipment are normally charged directly to every project, enter the average cost for the typical shop maintenance truck. Do not include the parts of the equipment costs, such as purchase, that are not charged to the project but paid from an entirely different account. Obtain the cost for the contractor's equipment from your estimating section.

2. Work Performance. Review the two methods provided in your initial data base. Review the way you maintain each different area of your installation. Record how the work is actually being performed. For example: (1) family housing--all tasks by contractors, no in-house work, self-help for light bulbs, (2) barracks--contractors for all major work, troops for all interior painting, in-house for all other tasks, (3) cantonment area--contractors for all major work, in-house for all other tasks. You should have six or fewer different ways of maintaining your facilities. Number the different work methods starting from 1 to 6. Select a name for each work method which is related to either the facilities (family housing) or work method (all contractor work). Use option 1 - Define Methods to enter your selections into the computer.

Record the major way the work will be performed (contractor, in-house) for each work performance method defined. Use option 2 - Define All Work Types to enter your major work performance method. The system will assign every task under that work performance method with this method.

Use option 3 - Define Individual Tasks to go through the data base and assign work performance methods to the small number of tasks that would be done in the minor ways for each work performance method (troop, self-help, and in some instances, contract and in-house).

You have now defined exactly how the work will be performed at your installation.

5.4.1.3 Individual Facility Reference Data. Four tables need to be updated:

1. Subinstallation and Area Tables. You can divide your installation into two levels: subinstallations and areas within a subinstallation. Use numbers (01 through 99) to identify both areas and subinstallations. All subinstallations must have a unique number. All areas in your installation should be identified by number. No two installation areas can have the same area ID number.

2. Travel Zones. The standard 20 travel zone factors (TZF) are already defined in the data base (Table 2-3). If you have special areas (for example, secure) that take longer amounts of time, you can use zones 21 through 25.

$$TZF = 8 \text{ hr/day}/(8 \text{ hr - No. round trips x Round trip time}) \qquad \text{[Eq 5-1]}$$

Example. TZF (1) = (8)/(8 - 2 x .16) = 8/7.68 = 1.04

3. Special Condition Multipliers. Make note of any occupants who cause different wear on your facilities. Record the unique topographic conditions that cause different wear. Define a different special condition multiplier ID (from 01 to 99) for each different condition. Define one condition at a time by answering the questions as the program prompts you.

Climatic weather zones for your installation can be obtained from Figure 5-1 or Table 2-1. Always select the "IFS Component Calculations" answer to the "Special Exterior Wall Multipliers" question when exterior and interior doors and windows are not defined in your facility models.

4. Financial Management. Check the appropriate table to ensure all required appropriations are defined for your installation. Add one or two appropriations for your equipment accounting purposes. Define one Facility Funding Profile ID (numbered 01 through 99) for each appropriation. Show the appropriation at 100 percent to indicate that all facilities using this funding profile will have 100 percent of the labor and material costs charged to this appropriation.

Show the correct way you are accounting for equipment costs (e.g., 20 percent to appropriation 05, and 80 percent to appropriation 06).

When you have a facility ID that must split charges, set up a new facility funding profile to show the correct funding percentages.

5.4.2 Facility Information.

5.4.2.1 General Information - The largest task is to place each facility into the correct subinstallation and area and relate the correct travel zones, work performance methods, special condition multipliers, and calculation modeling ID. Your initial IFS data loading has used the following default values:

1. Subinstallation   01
2. Area   03
3. Travel Zone   03
4. Work Performance Method   01
5. Special Condition Multiplier   01
6. Funding Profile   01
7. Calculation Modeling ID
   a. For building 1 as modeled
   b. For nonbuildings   4 RMF

5.4.2.2 Facility Component Quantities and Dates. You can enter the last task performance date and the next scheduled performance dates. Record component replacement dates in the component record. The system will automatically add the dates to all replacement tasks.

5.4.2.3 Initial Setup for a Reporting Organization. Enter the system under your reporting installation. Change the installation name in the basic information, general information, and reports periods screen.

	Army		
Army	⊡⊡	Army	
MACOM	⊡A̲ FORSCOM	⊡B̲	TRADOC
Reporting Installation	A̲1̲ Fort Bragg	B̲I̲	Fort Sill
Installation	Y̲1̲ Fort Bragg	Y̲2̲	Reserve Center A
Facility Directories	⊡1̲ ⊡2̲		
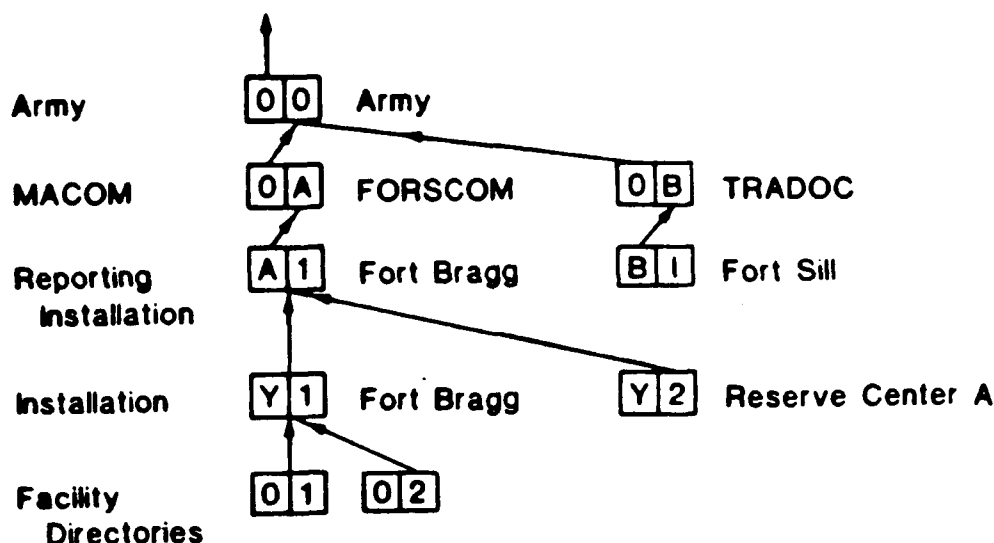
Figure 5-1. Organizational Structure

A reporting installation is defined as the organization that prepares and submits a Technical Data Report to a MACOM. Reporting installations (A1 Bragg in Figure 5-2) are currently listed in the MRPM Organizational Chart under each MACOM (0A FORSCOM in Figure 5-2).

All organizational codes are established as follows: (1) the first character identifies the next higher organization (i.e., the MACOM for installations), (2) the second character identifies the individual reporting organizations under the next higher organization (i.e., each installation for one MACOM.)

Several installations may report through one reporting installation. During the initial MRPM setup, the reporting installation must add each installation to the Organizational Chart. The main or primary installation should be given the organization code Y1. Other installations can be numbered Y2, Y3, etc. The MACOM ID should be the organization code for the reporting installation.

To ensure an efficient system, facilities are stored in many different directories. There should be no more than 300 facilities in any one facility directory. Facility directories are numbered from 01 to 99. One directory can contain: (1) all facilities located in several housing areas, (2) all facilities located in one housing area, (3) 300 facilities located in one housing area, or (4) all administration buildings. The reporting installations will enter each facility directory as an organization code. The MACOM ID should be the installation's organization code (Y1, Y2, Y3).

5.4.2.4 Facility Calculation Strategy. You should plan a strategy for performing calculations. Divide your list of facilities by F4C into groups that would require processing time of 12 hours or less. You can run each group overnight and results will be ready the next morning.

5.5 Entering Updated Installation Information. Select Basic Information or Facility Information and move to the screen that allows you to enter your new or updated information.

5.6 Modifying Existing Basic Task Information. The basic task data can be modified by selecting "Basic Information," "Facility Resource Description Dates," and "Basic Tasks." FIND the task to be changed and EDIT. Any information on the basic task can be changed and the currently defined facilities will use the changed data to perform the next resource calculation.

The tasks for a component are organized in a very specific manner. The complete component replacement task is the last. task in the list of tasks for the component. The MRPM calculation procedure will always use the last task listed as the replacement task.

5.7 Adding New Tasks to an Existing Component. Adding a new task to an existing component is not recommended. Each existing facility has a list of the tasks that were used for the component. If the Army-wide or installation-wide list of tasks were changed, you would have to change the task numbers in each facility.

5.8 Adding New Components and Tasks. A new component can be added by selecting "Basic Information," "Facility Resource Description Data," and "Basic Task Table." You must review the component tree organization to decide where the new component should reside and you must select a number for the component. Press the ADD function key and enter the task number for the replacement task. MRPM will determine if summary levels need to be added. You will be asked to enter the definition of each added summary level. After you have added the definitions the system will allow you to enter all of the task information. When you have added all task information press the SAVE key. Now use the ADD and SAVE keys to enter the remaining tasks.

5.9 Adding a New Facility. To add a new facility, start by entering the basic facility information by selecting "Facility Information" and "General Information." Press ADD and enter the first three identifiers for the subinstallation, area, and facility number. Turn to Section 2.3.5 for a description of each item on the screen. Press SAVE when all information has been entered correctly. If you are using RMF or gross square feet of floor area as your modeling method, you have completed the addition of a new facility. Press F10 to EXIT.

If you are defining components, select "Facility Information, "Model Facility," and "At Terminal."

5.10 Performing Resource Prediction Calculation. First ensure the latest shop costs are in the trade table (select "Basic Information," "Facility Resource Description Data," and "Trade and Costs"). Check for proper report period dates (select "Basic Information," "General Information," and "Report Period").

Move to the calculation screen (select "Facility Information" and "Resource Calculation"). The report data will be displayed; you may enter a request for calculations. (See Section 2.3.2 for details.)

5.11 Display Resource Predictions. Select "Facility Information" and "Display Resources."

5.12 Obtaining Appropriation Resource Summary Information. Once all facility calculations have been performed, select "Facility Information," "Facility Reports," and "Funding Reports." You must first generate a report file that will be transmitted; then you can print the report from the generated report file.

5.13 Sending Summary Information to the MACOM. See Section 2.4.5.

5.14 Saving Files.

5.14.1. Saving Files on Diskette. To back up a directory on diskette, do the following:

1. Move to the correct directory e.g., \DATA\Y1 Type: cd \DATA\Y1.

2. Press Enter key.

3. Type: backup \DATA\Y1\RMSY *.* or backup \DATA\Y1*.*

4. Press Enter key and follow the instructions on the screen.

5.14.2 Saving Files on the Tape Cartridge. To back up a directory on tape, do the following:

1. Type: "TMENU". A menu screen should appear on the monitor with the title "TMENU (V2.0)". Be certain that the BACKUP option is highlighted in RED. If this is not the case, use the arrow keys ("←" "→") or the space bar to toggle to the BACKUP option.

2. Use the arrow key (↓ Down) to highlight the SELECT option.

3. Press Enter.

4. Use the arrow keys (↑ up and ↓ down) to select the drive you wish to back up (e.g., Drive E:).

5. Press Enter. A directory listing of "E: drive" should appear on the screen. Since you would like to back up E: \DATA\Y1, use the arrow keys (↑ up and ↓ down) to select the desired directory.

6. Press Enter. A directory listing of E \DATA" should appear on the screen. Use the arrow keys (↑ up and ↓ down) to select the desired subdirectory.

7. Press <space bar>. Answer "Y" (Yes) to the prompt.

8. Hold down <ctrl> and press <enter>. Now the screen should display the original menu. Notice that the "40" option is highlighted.

9. Press Enter (to begin backup procedures).

10. Now type a "label" name for the backup. The name should be unique and should adequately identify the backup for future reference. (Note: Once the procedure is complete, the status screen will display: "BACKED UP XXX FILES IN XX DIRECTORIES. Type any key to continue."

11. Press <Enter>. Use the arrow keys to select the QUIT option or press <Enter> to back up another directory. Repeat the above steps.

5.15 Restoring Information.

5.15.1. Restoring Files From Diskettes. To restore a directory, do the following:

1.	Move to the correct directory (e.g., \DATA\Y1). Type: cd \DATA\Y1.

2.	Press Enter key.

3.	Type:	Restore \DATA\Y1*.* (drive letter):

4.	Press Enter key and follow the instructions on the screen.

5.15.2 Restoring Information From Tape Cartridge.	To restore a directory on tape, do the following:

1.	Type:	"TMENU".	A menu screen should appear on the monitor with the title "TMENU (V2.0)".	Use the arrow keys (← and →) or the space bar to toggle to the RESTORE option.

2.	Use the arrow key (↓ down) to highlight the SELECT option.

3.	Press Enter.

4.	Search for the "label" name of the desired back up set by answering the questions (directory and searching) on the selection screen.	(You can search faster by answering no to the directory prompt.)

5.	Select the "label" name by answering "y" to the directory prompt.

6.	Press <space>.

7.	Hold down <ctrl> and <enter>.

8.	Use arrow keys (↑ up and ↓ down) to select DRIVE option.

9.	Press Enter.

10.	Use arrow keys (↑ up and ↓ down) to select desired drive.

11.	Press Enter.

12.	Press Enter.

13.	Type "y" to restore the information to the hard disk.	Once the procedure is complete, the status screen will display:	"RESTORED XXX FILES IN XX DIRECTORIES.	Type any key to continue."

14.	Press Enter.	Use the arrow keys to select the QUIT option or press Enter to restore another label backup set.	Repeat the above steps.

5.16	Leaving the MRPM System.	Press F9 SAVE or F10 EXIT key until the "system" prompt appears; then turn off your computer power switches.

5.17	Modeling a Facility for the MRPM System.	A model of a facility can be constructed by using the as-built drawings and the actual facility.	The procedure is to do a component quantity takeoff for all components in the facility.	Appendix D lists the components in the MRPM system.	The forms shown in Appendix E should be used to record the component data.

When the complete facility has been finished, the data can be entered directly into MRPM or into any spreadsheet program in the following format:

Column 1: CACES Number (nine characters) left justified.

Column 2: Quantity (nine digits) with decimal point (i.e. 1., 259.).

Column 3: Description (not used by MRPM).

5.18 Procedure To Split a Facility Group Into Individual Facilities, Dwelling Type, and Individual Dwelling Unit.

5.18.1 Facility Group to Individual Facility - Start with the facility group (e.g., Facility ID: 32 or G00032). Copy the current facility group to a new single facility as follows:

1. Select "Copy Facility" from the "Facility Information Selection Menu."

Enter:

Starting New Facility ID: P00032
Ending New Facility ID: (blank)
Model Facility ID: (32 or G00032)
Place in Directory: (02, 09, 52, etc.)

Press F6 to begin the copy function.

2. Select "General Information."

Find (F3) the new facility (P00032) and make all appropriate changes to the data and save (F9).

3. If removing only one facility from the group, find (F3) the facility group and reduce the "Number in F/G" by one.

5.18.2 Individual Facility to Dwelling Type.

1. Start with an individual facility (e.g., P00032). Copy the current facility to a dwelling unit (U00032) as follows:

a. Select "Copy Facility" from the "Facility Information Selection Menu."

Enter:

Starting New Facility ID: U00032
Ending New Facility ID: (blank)
Model Facility ID: (P00032)
Place in Directory: (02, 09, 52, etc.)

Press F6 to begin the copy function.

b. Edit the "General Information" for this dwelling unit if required.

2. Divide the dwelling unit current component quantities by the number of dwelling units as follows:

a. Select "Fac Group to Dwelling Unit" from the "Facility Information Selection Menu."

Enter:

Facility ID: U00032
Divide Component Quantity By: (4 for a four-plex; 2 for a duplex, etc.).

Press F6 to begin the division process.

b. List (F1) the component quantity and dates to check for correctness and modify if required.

5.18.3 Dwelling Type to Individual Dwelling Unit. Start with the basic dwelling type "U00032" and create individual units (apartments) (sequentially numbered P00081, 82, and 83; or individually) as follows:

1. Select "Copy Facility" from the "Facility Information Selection Menu."

Enter:

Starting New Facility ID:	P00081
Ending New Facility ID:	P00083
Model Facility ID:	U00032
Place in Directory:	(02, 09, 52, etc.)

Press F6 to begin the copy function. The system will create all three facilities.

2. Modify the "General Information" if required.

5.19 Procedure To Create a New Directory for Facility Storage. Every new directory (\01, \22, etc.) must contain one blank file named FACILITY.XDB. This file is provided on a diskette labeled "BLANK FACILITY.XDB". First create a new directory (E: \BLKFACIL) and copy the file as follows:

1. CD \
2. Enter key
3. MD \BLKFACIL
4. Enter key
5. CD \BLKFACIL
6. Enter key
7. Copy A:*.*
8. Enter key
9. CD \DATA
10.   Enter key.

To create a new directory (e.g., \39), enter:

1. CD \
2. Enter key
3. MD \39
4. Enter key
5. CD \39
6. Enter key
7. Copy \BLKFACIL*.*
8. Enter key
9. CD \DATA
10. Enter key.

Move to the base directory (e.g., /DATA/Y1, X1, Z1) and add or copy facilities to new directory.

5.20 Download Data From IFS. Your basic facility information (facility description, F4C code, construction year, basic quantity) stored in HQ-IFS (or possibly your installation IFS) can be downloaded into the MRPM system. Two ASCII[1] files need to be created--one for buildings and one for nonbuildings. Enter the files by using the Model Facility from the IFS function.

---

[1]ASCII = American Standard Code for Information Interchange.

6 LEARNING THE MRPM SYSTEM.

6.1 Introduction. This chapter presents the MRPM functions in the order that you will use most frequently. This presentation method allows you to learn just enough to do your job and then stop. You can come back at any time and learn the remaining functions. Bear in mind that with this learning method, you will not be exposed to the basic information tables until the end of the chapter. You may not fully understand some of the material used until you have completed the chapter.

This chapter guides you through the MRPM system and allows you to work systematically within each data screen.

1. Remove this chapter from your user's manual so that you can refer to the installation functions, Chapter 2, and this chapter simultaneously.

2. Read the text as follows:

    (a) Read the function heading of a section in Chapter 6.

    (b) Find the reference given to Chapter 2.

    (c) Read the text in Chapter 2 first. This will describe how each data item is used.

    (d) Read the text in Chapter 6 next. This text is presented in two parts. The first part presents a textual description of the work to be done during the learning exercise. The second part provides one way the work can be accomplished using the system. Each command is given in the commands section. You can enter the commands as given to learn how to operate the system.

    (e) Try the commands to learn how the system works. The exact commands to perform each exercise are listed in the Commands section for each function.

Start the learning process by moving to the drive that contains the \DATA directory. From any DOS prompt type "INSTMENU" followed by the enter key. The Maintenance Resource Prediction Model Installation Selection menu will be displayed. The above commands are normally placed in the AUTOEXEC.BAT file so that the menu will automatically appear when the machine is turned on.

```
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¤                   ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£              ¤
¤                   ¤       MAINTENANCE PREDICTION MODEL     ¤              ¤
¤                   ¤       INSTALLATION SELECTION MENU      ¤              ¤
¤                   àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥              ¤
¤                                                                          ¤
¤        INSTALLATION NAME                      BATCH CONTENTS             ¤
¤  ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£ ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£   ¤
¤ ¤  DOS                           ¤ ¤CD E:\DATA\Y1                    ¤ ¤ ¤
¤ ¤  Enter Current Learn DataBase  ¤ ¤                                 ¤ ¤ ¤
¤ ¤  Create a New Learn DataBase   ¤ ¤                                 ¤ ¤ ¤
¤ ¤              Primary    Inst   ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤ ¤                                ¤ ¤                                 ¤ ¤ ¤
¤  àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥ àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥   ¤
¤              PAGE 1                                                       ¤
¤                                                                          ¤
F1      F2      F3SETUP  F4      F5 EDIT F6      F7      F8      F9      F10EXIT¥
```

Figure 6-1. Maintenance Resource Prediction Model, Installation Selection Menu.

Us the down arrow key to move the cursor to "Create a New Learn Data Base" and press the enter key. the system will delete the current contents of the \DATA\LEARN directory and place new files in this directory. This process may take a few minutes. A message will be printed instructing you to type "MRPM" and press the enter key to start the MRPM system.

```
TYPE: MRPM (ENTER KEY) TO START MRPM SYSTEM

E:\DATA\LEARN
>mrpm
```

Figure 6-2. Starting the MRPM System.

The computer system will display the Main Menu. Notice that the current directory is always displayed at the lower left of the screen.

```
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¤                      Àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£              ¤
¤                      ¤      Maintenance Prediction Model       ¤              ¤
¤                      ¤                Main Menu                 ¤              ¤
¤                      Àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥              ¤
¤                                                                               ¤
¤                                                                               ¤
¤                                                                               ¤
¤                         Basic Information                                     ¤
¤                                                                               ¤
¤                         Facility Information                                  ¤
¤                                                                               ¤
¤                         Review and Approval                                   ¤
¤                                                                               ¤
¤                         Research                                              ¤
¤                                                                               ¤
¤                         Special Programs                                      ¤
¤                                                                               ¤
¤                                                                               ¤
¤                                                                               ¤
¤                                                                               ¤
¤                                                                               ¤
¤E:\DATA\LEARN                                                                  ¤
Àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-3. MRPM Main Menu.

There are six functions shown in this menu. Ninety percent of your time will be spent in the "FACILITY INFORMATION" function. Use your down arrow to move to the facility information option and press the enter key.

During this training session, you will use real-life facilities exactly as you will find them in your daily work. The amount of data in the examples has been kept to a minimum to reduce your time for learning the system.

Example for Adding a New Facility. Assume you are in the year 1986. You are going to model facilities that were built in 1901.

Ten identical family housing facilities were built on your installation from the same drawings. One of the 10 identical single family houses has been assigned building number P08901. An engineer has reviewed the drawings and prepared a Component Quantity Takeoff identifying all walls, floors, etc., and stating the amount of each present in the facility. Master Planning has been provided all of the information required to define this new facility in the MRPM system. During this learning session, you will use portions of this facility to learn how the MRPM system works.

On the normal installation, there would probably be 10 new facilities and 10 new facility models added each year. The total time to add the 10 facilities would be approximately 5 hours per year.

6.2 Facility Information.

6.2.1 Facility Information Selection Menu (Read Section 2.3.1).

```
ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
□                    ëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£              □
□                    □       Facility Information        □              □
□                    □          Selection  Menu          □              □
□                    àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥              □
□                                      .                                □
□                                                                       □
□                                                                       □
□                         Resource Calculation                         □
□                         Display Resources                            □
□                         Facility Component Quantity                   □
□                         General Information                          □
□                         Facility Reports                             □
□                         Query                                        □
□                         Model Facility                               □
□                         Copy Facility                                □
□                         Global Change to Components                   □
□                         Fac Group to Dwelling Unit                    □
□                         Delete Resource Files                         □
□                         Move Facility to New Directory                □
□                         Delete Resource Total File                    □
□                                                                       □
□E:\DATA\LEARN                                                          □
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-4. Facility Information Selection Menu.

6.2.2 General Information (Read Section 2.3.5). The first step in defining a facility is to add the basic or general information about it. This general information locates the facility on the installation (subinstallation, area, travel zone, facility number); provides basic information about the facility (F4C code, year of construction, floor area); identifies how work should be performed, how resources should be calculated, and who should pay for the work (work performance, special condition multiplier, facility funding projects, and calculation method).

Instead of requiring the user to type the full name of the subinstallation, area, or other field descriptions, a shortcut system of identifiers has been used to limit input to two characters. This does require you to have a list of all allowable IDs, but is a small price to pay for the ease of entering data.

Assume that the following information was prepared for you and that all IDs have been specified correctly.

6-4

ADD a new facility with the following information:

Facility ID: P08901

1.	Subinstallation	[01] North Sector
2.	Area [01] Salerno Circle	
3.	Facility ID	[P08901] [Learn the MRPM System]
4.	F4C Code	[7112900]
5.	Number in F/G	[10]
6.	Travel Zone	[3]
7.	Square Feet	[2000]
8.	W/P Method Index	[1] (1:6)
9.	Special Condition	[01] Normal condition
		Multiplier ID
10.	Scheduled disposal date	[ ]
11.	Last Changed Date	[ ]
12.	Last Calculation Date	[ ]
13.	Facility Funding Profile	[01] Test
14.	Calculation Modeling Id	[1] (1:4) As entered
15.	Directory Specified	[ ] (Blanks if none)
16.	Components Entered	[ ]
17.	Base Facility ID	[ ]
18.	Percentage of Base Facility [ ]	

From Main Menu:

1. Use down arrow (↓) (to Facility Information)
2. Enter (Facility Information Selection Menu is displayed)
3. Press 3 (↓) to General Information
4. Enter (General Facility Information)
5. Press F7 ADD (to add a new facility)
6. Type: P08901
7. Enter (computer adds the sequence number and requests a subinstallation ID)
8. Add all info enclosed in square bracket given above
9. Press F9 SAVE (to command mode)
10. Press F10 EXIT (for facility information selection menu)

```
åeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
¤                    General Facility Information              02-21-90 ¤
åeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
     åeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
     ¤   Seq [1038]          Command Mode                            ¤
     ¤   (1) Subinstallation   [01] North Sector                    ¤
     ¤   (2) Area              [01] SALERNO CIRCLE                   ¤
     ¤   (3) Facility ID[P08901   ] [LEARN THE MRPM SYSTEM       ]¤
     ¤   (4) F4C Code [7112900][FAM.HSG.CAPEHART CIV.GS 5 & 6     ]¤
     ¤   (5) Number in F/G     [ 10]    (6) Travel Zone  [ 3]       ¤
     ¤   (7) Square Feet  [    2000]  (8) Construction Year [1901] ¤
     ¤   (9) W/P Method Index [1] minor-inhouse,major-contract      ¤
     ¤   (10) Special Cond. Mult.ID[01]Normal Conditions            ¤
     ¤   (11) Scheduled disposal date [        ]   [mm-dd-yy]       ¤
     ¤   (12) Last Changed Date       [02-21-90]   [mm-dd-yy]       ¤
     ¤   (13) Last Calculation Date   [        ]   [mm-dd-yy]       ¤
     ¤   (14) Facility Funding Profile[01] test                     ¤
     ¤   (15) Calculation Modeling Id [1] (1:4) As Entered          ¤
     ¤   (16) Directory Specified[E:\  ](blank for current directory)¤
     ¤   (17) Components Entered (Y/N): [ ]                          ¤
     ¤   (18) Base Facility ID[       ·   ]                         ¤
     ¤   (19) Percentage of Base Facility[ ]                        ¤
     ¤                                                               ¤
     åeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
 F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 MASK F7 ADD  F8 DEL  F9UPDATEF10EXIT
```

Figure 6-5. General Facility Information.

You have used several references or pointers to other tables. You will learn more about the tables later, but you may want to review each of the following tables in the basic information section in Chapter 2:

1. Subinstallation
2. Area
3. Travel zone
4. Work performance method
5. Special condition multiplier
6. Facility funding profile
7. Calculation model.

6.2.3 Model a Facility (Read Section 2.3.8.3)

You have just completed adding the general information about the facility. Now you want to add a description of what components are in the building. Only a few components need to be entered so you can learn the procedure.

You want to model a facility at your terminal.

6-6

ADD a new component model of the facility P08901 from your terminal using the following information given to you by your supervisor:

Component	CACES No.	Quantity	Scheduled Date Last	Next
Interior Walls				
Plaster	0611100	2600	--	--
Sheetrock	0611300	1300	1936	--
Tile	0612800	1090	--	1990
Interior Doors				
Hollow - Core	0533100	18	--	--

Commands. From the Facility Information Selection Menu:

1. Press (↓) six times (to Model Facility)
2. Enter (for Installation-Level odel Facility.
3. Press (↓) twice to At Terminal
4. Enter (for Facility omponent Quantity.
5. Type: P08901 (Facility ID)
6. Enter (for Facility Component Quantity and Dates. Message Appears. (See Figure 6-8)
7. Enter (system now in the ADD mode.
8. Type: 0611100 (CACES No.)
9. Enter (system displays level)
10. Type: 2600 (quantity)
11. Enter
12. Press F9 SAVE
13. Type: 0611300 (CACES No.)
14. Enter
15. Type: 1300 (Quantity)
16. Enter

17. Type: 1936 (last performed date)
18. Press F9 SAVE
19. Type: 0612800 (CACES No.)
20. Enter
21. Type: 1090 (Quantity)
22. Enter
23. Enter
24. Type: 1990 (Next/Sched Date)

25. Press F9 SAVE
26. Now ADD the Interior Doors
27. Press F9 SAVE
28. Press F10 EXIT (to Command Mode)
29. From COMMAND MODE: Press F10 Exit (to the Facility Component Quantity)
30. Press F10 EXIT (to Installation-Level Model Facility)
31. Press F10 EXIT (to the Facility Information Selection Menu).

6-7

```
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
¤                    eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE                    ¤
¤                    ¤          Installation Level          ¤                    ¤
¤                    ¤            Model Facility            ¤                    ¤
¤                    àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥                    ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                         From IFS Database                                    ¤
¤                                                                              ¤
¤                         From Input File                                      ¤
¤                                                                              ¤
¤                    At Terminal                                               ■
¤                                                                              ¤
¤                    Input from EMS                                            ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤E:\DATA\LEARN                                                                 ¤
àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-6. Installation Level Model Facility

```
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
¤                          FACILITY COMPONENT QUANTITY                          ¤
àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤         FACILITY ID:     P08901                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
¤                                                                              ¤
àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-7. Facility Component Quantity.

```
                                                   DATE LAST  DATE NEXT
CASES NO. QUANTITY U/M   DESCRIPTION                PERFORMED SCHEDULED

               èéëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
               ¤                                           ¤
               ¤                                           ¤
               ¤    CTOO and TREE file not found !         ¤
               ¤                                           ¤
               ¤    Press F10 or ESC to EXIT,              ¤
               ¤                                           ¤
               ¤    or press any key to ADD component.     ¤
               ¤                                           ¤
               àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥


F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-8. Status Message.

```
                    FACILITY COMPONENT, QUNATITY, AND DATES          02/21/90
Facility ID: [P08901   ] LEARN THE MRPM SYSTEM
               LEVEL 1 0000000    TOTAL SUMMARIES
               LEVEL 2 0600000    INTERIOR FINISHES
               LEVEL 3 0610000    WALL FINISHES
               LEVEL 4 0611000    GYPSUM & PLASTER PRODUCTS
               LEVEL 5 0611100    PLASTER WALL FINISH

  ADD MODE                                           DATE LAST  DATE NEXT
  CASES NO. QUANTITY U/M   DESCRIPTION                PERFORMED SCHEDULED

  0611100   2600.0. 0  PLASTER WALL FINISH               0        0

  TASKS       0611102   REPAIR PLASTER WALL FINISHES
              0611103   REFINISH REPAIRED PLASTER WALL FINISH
              0611104   REFINISH PLASTER WALL FINISH
              0611105   REPLACE PLASTER WALL FINISH
              0611106   REFINISH REPLACED PLASTER WALL FINISH



F1      F2      F3      F4      F5      F6      F7      F8      F9 SAVE F10EXIT
```

Figure 6-9. Facility Component, Quantity and Dates.

Note that as you set a date, the computer records a "U" to indicate that the user set the date and not the computer.

6.2.4 Resource Calculation (Read Section 2.3.2). You have been asked to develop a 10-year resource requirement report for this set of 10 facilities. This report will be the basis for your installation's planning submittal to your MACOM. You have been given the following instructions.

(1) Perform a resource calculation for the years 1986 through 1995 using all adjustment factors of 1.0 (the above values have been previously set for you through the Basic Information, Report Period screen).

(2) Set run parameters:

(a) Modeling Method: (5) Use the item specified for facility
(b) Calculation Method: (3) All tasks
(c) Task Distribution Method: (2) Uniform
(d) Facility Selection: (2) Facility number range
(e) Subdirectory Usage: (1) Use main directory; no tape; save files.
(f) Fac. Type To Be Processed: (1) Building and nonbuilding.
(g) Trace Option: (1) Set trace off.
(h) Set the facility selection range to P08901, P08901. Accept the values and start the calculation.

Commands. From Facility Information Menu:

1. Enter (for resource calculation)
2. Enter (to set run parameters)
3. Press space bar four times to method (5)
4. Down arrow (↓) (to calculation methods and elect (3.all tasks)
5. Down arrow (↓) (to task distribution method)
6. Space bar for uniform (2)
7. Use down arrow (↓) (for facility election.
8. Space bar to facility number range (2.
9. Press F10 (to set run parameters)
10. Down arrow (↓) (to set ranges)
11. Enter (for facility)
12. Type: P08901 (use space bar to blank out "0")
13. Enter
14. Press (F10) (to set ranges)
15. Down arrow (↓) (to accept values and start run)
16. Enter (to start calculation. Facility No. displayed)
17. Press F10 (for Facility Information Selection menu).

Review the printed output received and shown in Figure 6-12. The first line gives the program name and revision number. The second line gives the date and time. The third line states the letter of the virtual disk (F). If no virtual disk is present, the letter (C) will be shown. The third line shows the date and time. The fourth line shows the current directory. The next several lines contain the values that you selected on the input screen. The next to last line shows the starting time for calculations for facility P08901. If your facility contained components that were not in the data base, error messages would be printed on this report.

```
èèèèèèèèèèèèèèèèèèèèèèèèèèèè Resource Calculation èèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
¤     èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£        ¤
¤     ¤ 02-21-90              Revision #7.01              08:39:21 ¤        ¤
¤     ¤    Installation: Learning the MRPM System Demo            ¤        ¤
¤     ¤    Report Period Years: 1986 - 1995                       ¤        ¤
¤     ¤    M.L.A.=1.000 ,M.T.A.=1.000 RMF T.A.=1.000 C.A.=1.000   ¤        ¤
¤     àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥        ¤
¤               èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£                          ¤
¤               ¤ Set Run Parameters            ¤                          ¤
¤               ¤ Set Ranges                    ¤                          ¤
¤               ¤ Not Used                      ¤                          ¤
¤               ¤ Accept Values & Start Run     ¤                          ¤
¤               àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥                          ¤
¤     èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£   ¤
¤     ¤ MODELING METHOD          [5]Use the item specified for Facility ¤  ¤
¤     ¤ CALCULATION METHOD       [3]All Tasks                           ¤  ¤
¤     ¤ TASK DISTRIBUTION METHOD [2]Uniform                            ¤  ¤
¤     ¤ FACILITY SELECTION       [2]Facility Number Range              ¤  ¤
¤     ¤ SUBDIRECTORY USAGE       [1]Use main directory ;No Tape;Save Files ¤ ¤
¤     ¤ FAC. TYPE TO BE PROCESSED [1]Building and Non-Building         ¤  ¤
¤     ¤ Trace Option             [1]Set Trace Off                      ¤  ¤
¤     ¤ Facility:P08901   -P08901                                     ¤  ¤
¤     àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥  ¤
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
Use  keys to position to selection & hit ENTER  | hit F10 to exit program
```

Figure 6-10. Resource Calculation.

```
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¤ Current Directory                            ¤
¤ F4C  Code  = 7112900                         ¤
¤ Facility ID = P08901                         ¤
¤ Calculating                                  ¤
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
```

Figure 6-11. Resource Calculation Processing Screen.

```
Turn on the Printer  |   Press F10 to stop after this facility is calculated

Program: FA-CALC.EXE   Revision number: 7.01
Calculation Messages 02-21-90  08:39:20
Assiged Virtual Disk is : F:
Current Directory E:\DATA\LEARN

MODELING METHOD            Use the item specified for Facility
CALCULATION METHOD         All Tasks
TASK DISTRIBUTION METHOD    Uniform
FACILITY SELECTION         Facility Number Range
                          Facility Range :  P08901    - P08901
SUBDIRECTORY USAGE         Use main directory ;No Tape;Save Files
FAC. TYPE TO BE PROCESSED  Building and Non-Building
08:43:31   * Start Facility ID: P08901    F4C Code : 7112900 Sequence #:1038
******  END OF FACILITY RANGE  ******
```

Figure 6-12. Resource Calculation Output.

6.2.5 Display Resources (Read Section 2.3.3.1). You want to graph the total cost (line 8) for Interior Construction CACES No. 0500000. Look at the resources in both tabular and graphic form. Which display would you like to see--the table or the graph?

Command. From Facility Information Menu:

1. Down arrow (↓) (to Display Resources)
2. Enter (for Display Resources Selection Menu)
3. Enter (for Display Facility Resources)
4. Type: P08901
5. Enter (shows the total resources CACES No. 0000000)
6. Press F3 FIND
7. Type: 0500000
8. Enter (table displayed)
9. Type: G (for graph)
10. Type: 7 (for total cost to be graphed)

11. Enter (a Microsoft Chart Screen will be displayed before the graph appears)
12. Type: p (for print)
13. Type: p (for printer. The graph will be printed.)
14. Type: q (for quit)
15. Type: y (to confirm)
16. Press F10 (to Resource Summary Graph)
17. Press F10 (to Display Resources Selection Menu)
18. Press F10 (for Facility Information Menu).

6-12

```
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¤                    èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£              ¤
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¤                    Display Facility Resouces                       ◼
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¤                    Display · Financial Data                        ¤
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¤                    Display Facility Totals                         ¤
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-13. Display Resources Selection Menu.

```
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¤                        RESOURCE SUMMARY GRAPH                      ¤
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¤                                                                    ¤
¤                                                                    ¤
¤                                                                    ¤
¤                                                                    ¤
¤                                                                    ¤
¤              FACILITY ID:     P08901                               ¤
¤                                                                    ¤
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¤                                                                    ¤
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-14. Resource Summary Graph.

```
                    Resource Summary File      Query Program
        CACES NO: 0000000    TOTAL SUMMARIES
        FACILITY ID:  P08901       Total ten years cost:       219754


            Year      1986      1987      1988      1989      1990
  1 Occ Count         83        83        60        56        83
  2 Lab Hours       1711       288      1687       167      1711
  3 Eqp Hours       1711       288      1687       167      1711
  4 Lab Costs      27045      4734     26657      2766     27045
  5 Mat Costs       4205      2893      2250       790      4205
  6 Eqp Costs       5476       924      5400       535      5476
  7 Tot Costs      36727      8551     34307      4093     36727
            -------------------------------------------------------
            Year      1991      1992      1993      1994      1995
  1 Occ Count         80        84       118       118        82
  2 Lab Hours        206      1695       290      1712       280
  3 Eqp Hours        206      1695       290      1712       280
  4 Lab Costs       3403     26809      4777     27088      4619
  5 Mat Costs       2668      4186      3750      5062      3592
  6 Eqp Costs        660      5426       928      5480       898
  7 Tot Costs       6732     36421      9455     37631      9110

                          Command Mode
   F1=TOP   F2=BOT   F3=FIND   PgUp=PREV   PgDn=NEXT   F5=GRAPH   F10=EXIT
```

Figure 6-15. Resource Summary File
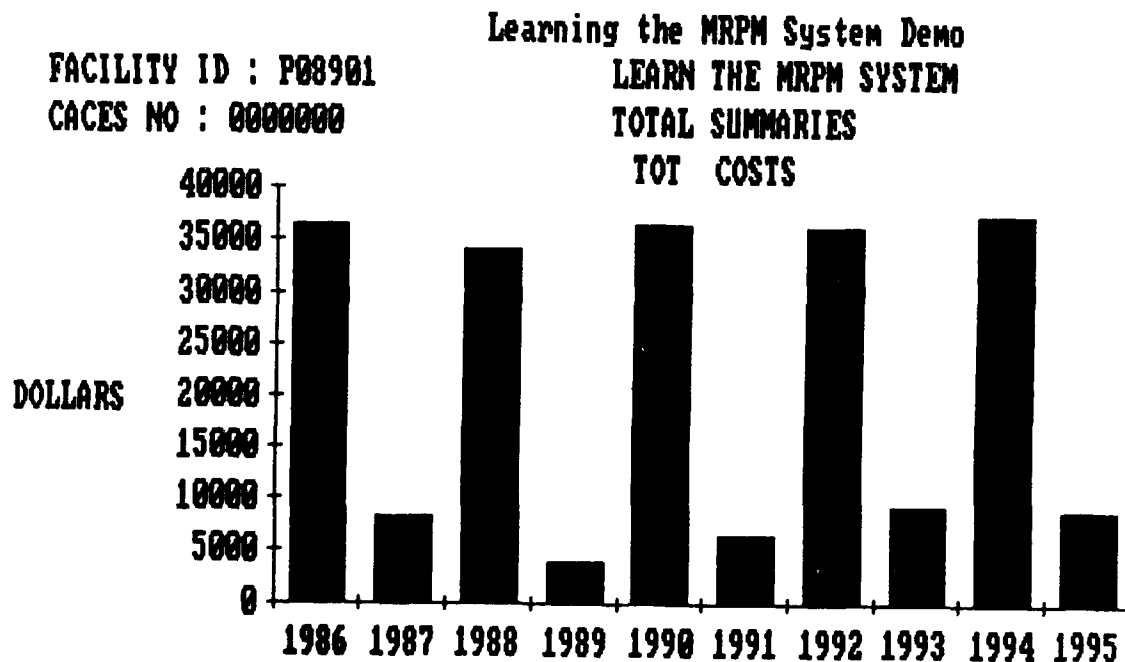
Figure 6-16. Resource Summary Graph.

6.2.6 Component Quantity and Dates (Read Section 2.3.4) . Time passes and you have performed work on your P08901 facility. You have even done some future planning! EDIT the table for P08901 and change the information for all facilities.

Schedule Dates

CACES No.	Quantity	Last	Next
0611100	(No Change)	(No Change)	1992
0611300	1500.0	1986	1993

Commands. From Facility Information Selection Menu:

1. Down arrow ($\downarrow$) twice to Facility Component Quantity
2. Enter (for Facility Component Quantity)
3. Type: P08901
4. Enter (for Facility Component, Quantity, and Dates)
5. Press F3 FIND
6. Type: 0611100
7. Enter (shows complete record)
8. Press F5 EDIT
9. Enter twice (to next cheduled date)
10. Type: 1992
11. Press F9 SAVE (for command mode)
12. Press F3 FIND
13. Type: 0611300
14. Enter (shows complete record)
15. Press F5 EDIT
16. Type: 1500.0 (space bar twice--quantity change)
17. Enter (for last performed date)
18. Type: 1986
19. Enter
20. Type: 1993
21. Press F9 SAVE (for command mode)
22. Press F10 (for Facility Component Quantity)
23. Press F10 (for facility information menu..

```
                    FACILITY COMPONENT, QUNATITY, AND DATES          02/21/90
Facility ID: [P08901    ] LEARN THE MRPM SYSTEM
                   LEVEL 1 0000000    TOTAL SUMMARIES
                   LEVEL 2 0600000    INTERIOR FINISHES
                   LEVEL 3 0610000    WALL FINISHES
                   LEVEL 4 0611000    GYPSUM & PLASTER PRODUCTS
                   LEVEL 5 0611100    PLASTER WALL FINISH


COMMAND MODE                                            DATE LAST  DATE NEXT
CASES NO. QUANTITY U/M   DESCRIPTION                    PERFORMED  SCHEDULED

0611100    2600.0   2  PLASTER WALL FINISH                 0         0


          NOTES:    PLASTER WALL FINISH



F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 DATE F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 6-17. Facility Component 0611100.

```
                    FACILITY COMPONENT, QUNATITY, AND DATES          02/21/90
Facility ID: [P08901    ] LEARN THE MRPM SYSTEM
                   LEVEL 1 0000000    TOTAL SUMMARIES
                   LEVEL 2 0600000    INTERIOR FINISHES
                   LEVEL 3 0610000    WALL FINISHES
                   LEVEL 4 0611000    GYPSUM & PLASTER PRODUCTS
                   LEVEL 5 0611300    SHEETROCK (UNSTIPPLED) WALL FIN.


COMMAND MODE                                            DATE LAST  DATE NEXT
CASES NO. QUANTITY U/M   DESCRIPTION                    PERFORMED  SCHEDULED

0611300    1300.0   2  SHEETROCK (UNSTIPPLED) WALL FIN.    1936 U    0


          NOTES:    SHEETROCK (UNSTIPPLED) WALL FIN.



F1 TOP  F2 BOT  F3 FIND F4 LIST F5 EDIT F6 DATE F7 ADD  F8 DEL  F9      F10EXIT
```

Figure 6-18. Facility Component 0611300.

Note that as you entered and saved a date, the computer marked the date with a "U" to indicate that it was set by the user.

6.2.7 Reports. Generate one of each report type to see what reports are available.

6.2.7.1 Organizational Summary Reports (Read Section 2.3.6.1) .

F4C Summary Report. Use an F4C range of low 6101100 and high 6101100, starting year 1986, report years of 10, print the resource summary information for all facilities, and use thousands of dollars.

Commands. From the Facility Information Selection Menu:

1. Down Arrow (↓) four times (to Facility Reports)
2. Enter (for Facility Reports)
3. Enter (for F4C/AMS Organizational Summary)
4. Space bar once and the F4C Summary Report will be
5. Press the enter key (See Figure 6-19.)
6. Type: 6101100 (low F4C)
7. Enter
8. Type: 6101100 (high F4C)
9. Enter

10.Include all facilities by press the Enter Key twice
11. Type: 1986 (starting year)
12. Enter
13. Type: 10 (number of years to report)
14. (enter)
15. Type: 2 (K Unit)
17. Press F6 (to begin report)
18. Press F10 (for Facility Reports).

```
èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee
□                              AMS/F4C Summary Report                                                    □
□                                   Input Screen                                                         □
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□                                                                                                        □
□           F4C Summary Report       [toggle space bar to change]                                        □
□           Enter the low  F4C Code:  6101100                                                            □
□           Enter the high F4C Code:  6101100                                                            □
□                                                                                                        □
□           Enter the low  Facility ID:              (Enter blanks to                                    □
□           Enter the high Facility ID:               print all facilities)                              □
□                                                                                                        □
□           Enter the starting year:    1986                                                             □
□           Enter the number of years to report: 10 (max 10)                                             □
□                                                                                                        □
□           Print Option: 2                                                                              □
□              (1) Actual Unit                                                                           □
□              (2) K Unit                                                                                □
□                                                                                                        □
□                                                                                                        □
□                                                                                                        □
□                                                                                                        □
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F1      F2      F3      F4      F5        F6BEGIN F7      F8        F9        F10EXIT
```

Figure 6-19. F4C Input Screen.

Review the output report (also shown on pages C-1 though C-5). The first two pages contain four AREA reports (01, 02, 03, 04). The third page contains two subinstallation reports. Subinstallation 01 contains areas 01 and 02. Subinstallation 02 contains areas 03 and 04. Page four is an installation summary of subinstallations 01 and 02.

6-17

AMS Summary Report. Use an AMS code of K2600, starting year 1986, 10 report years, and include all facilities. Print the report in thousands of dollars.

Commands. From the AMS/F4C Summary Report Input Screen:

1. Press the enter key (to include all facilities).(See Figure 6-20.)
2. Type: K2600
3. Enter
4. Type: K2600
5. Enter

6. Press the enter key twice
7. Accept 1986 and press enter.
8. Accept 10 years and press enter.
9. Accept 2 for K units and press enter.
10. Press F6

```
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ª                         AMS/F4C Summary Report                        ª
ª                             Input Screen                              ª
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ª                                                                       ª
ª          AMS Summary Report    [toggle space bar to change]           ª
ª          Enter the low  AMS Code:  K2600                              ª
ª          Enter the high AMS Code:  K2600                              ª
ª                                                                       ª
ª          Enter the low  Facility ID:           (Enter blanks to       ª
ª          Enter the high Facility ID:            print all facilities) ª
ª                                                                       ª
ª          Enter the starting year:    1986                             ª
ª          Enter the number of years to report: 10 (max 10)             ª
ª                                                                       ª
ª          Print Option: 2                                              ª
ª             (1) Actual Unit                                           ª
ª             (2) K Unit                                                ª
ª                                                                       ª
ª                                                                       ª
ª                                                                       ª
ª                                                                       ª
àÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞÞ¥
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-20. AMS Input Screen.

Review the output report (also shown on pages C-5 through C-8). The report is the same as the F4C report described above.

6.2.7.2 Task Cost Report (Read Section 2.3.6.2). Produce a report for P08901 that shows estimates for all tasks for each of the 10 years.

Commands.. From the Facility Reports Menu:

1. Down Arrow(↓) (to Task Cost Report)
2. Enter
3. Type: P08901 (the facility ID)
4. Enter (the system will print the report and return you to Facility Reports Selection Menu)

Review the output report (also shown on pages C-9 and C-10). Tasks (0611102,3,4,5 and 6) are combined to form component costs for plaster walls (0611100). Gypsum and plaster products (0611000)

6-18

and masonry and tile products (0612000) are combined to form wall finishes (0610000). Interior Construction (0500000) and Interior Finishes (0600000) are combined to form the total resource for the facility (0000000).

6.2.7.3 Facility Component, Quantity, and Dates Report (Read Section 2.3.6.3). Use your P08901 facility and produce a report.

Review the report (also shown on page C-11). Note that the computer has assumed values.

Commands. From the Facility Reports Menu:

1. Down arrow (↓) to Facility Component/Quantity)
2. Enter
3. Type: P08901 (your facility ID)
4. Enter (the system will print your report and return you to Facility Reports).

6.2.7.4 Ordered Yearly Task Report (Read Section 2.3.6.4). Use your P08901 facility. Select "yearly by facility ID." Produce component and task report for 1986, request only one year (1986). Print all tasks for which the dollar values are greater than 2 percent of the total yearly expenditure by entering a "2" for the lower percent cutoff.

Commands. From the Facility Reports Menu:

1. Down arrow (↓) to Ordered Yearly Task Reports)
2. Enter (for ordered task report generator)
3. Enter (for yearly by facility ID)
4. Type: 1986 (starting year)
5. Enter
6. Type: 1 (number of years)
7. Enter
8. Type: P08901 (low facility ID)
9. Enter
10. Enter
11. Type: 2 (percent)
12. Enter
13. Type: 3 (by component and tasks)
14. Enter
15. Press F6 BEGIN (system will print the report)
16. Press F10 (returns you to Facility Reports Selection Menu).

```
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¤                 èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£                    ¤
¤                 ¤   ORDERED TASK REPORT GENERATOR     ¤                    ¤
c                 àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥                    ¤
¤                                                                            ¤
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¤          ¤           PLEASE SELECT THE TYPE OF REPORT        ¤          ¤
¤          ¤                                                   ¤          ¤
¤          ¤           YEARLY BY FACILITY ID                   ¤          ¤
¤          ¤           YEARLY BY F4C CODE                      ¤          ¤
¤          ¤           YEARLY BY FUNDING REPORT                ¤          ¤
¤          ¤           PERIOD BY FACILITY ID                   ¤          ¤
¤          ¤           PERIOD BY F4C CODE                      ¤          ¤
¤          ¤           PERIOD BY FUNDING REPORT                ¤          ¤
¤          ¤                                                   ¤          ¤
¤          ¤                                                   ¤          ¤
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F1      F2      F3      F4      F5      F6      F7      F8      F9      F10EXIT
```

Figure 6-21. Ordered Task Report Generator

```
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¤           YEARLY BY FACILITY ID      ¤
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¤ STARTING YEAR .......(YYYY) ==>  1986          ¤
¤                                                ¤
¤ NUMBER OF YEARS ..(MAX  10) ==>   1            ¤
¤                                                ¤
¤ LOW FACILITY ID .......(9X) ==>  P08901        ¤
¤                                                ¤
¤ HIGH FACILITY ID ......(9X) ==>  P08901        ¤
¤                                                ¤
¤ LOWER PERCENT CUTOFF ..(nn) ==>   2            ¤
¤                                                ¤
¤ TASK REPORT OPTIONS ....(n) ==>   3            ¤
¤ (1.BY COMPONENT 2.BY TASK 3.BY COMPONENT & TASK) ¤
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F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-22. Yearly by Facility ID

The system will produce two reports (also shown on pages C-12 and C-13). The first shows the components for which costs are greater than 2 percent. The second shows the individual tasks for which costs are greater than 2 percent.

6.2.7.5 Funding Report (Read Section 2.3.6.5) . The first step is to generate a special report file for RPMA appropriation (01)/K2600 Administrative facilities AMS Code (07). The second step is to print

the report for this appropriation/AMS code. Generate a report starting with 1986 for 10 years.

Commands. Generate Report

From the Facility Reports Menu:

1. Down arrow (↓) four times (to Funding Report)
2. Enter (Options Screen) See Figure 6-23.
3. Type: 2
4. Enter (to Approp. Code Table)
5. Press F6 BEGIN (to Approp. Code Table)
6. Press F6 (for RPMA-1 approp. ID: 01) See Figure 6-24.
7. Use page down (↓) and F6 (to select AMS Code K2600, AMS ID: 69) See Figure 6-25.
8. Type: 1986 (starting year) See Figure 6-26.
9. Enter
10. Type: 10 (number of years)
11. Enter
12. Enter (include all facilities)
13. Press F6 (to start the report)
14. Type: Y (to delete existing RS010107 file)
15. Enter
16. Type: Y (to delete existing RS020107 file)
17. Enter

18. Type: Y (to delete existing R0Z10107 file)
19. Enter (to generate a printed report)

The computer will take several minutes to generate the report file. During this processing, the computer will display the facility ID or subdirectory being processed as shown in Figure 6-27.

Print Report

20. Type: Y (to print report)
21. Enter (for Funding Report print information) See Figure 6-27
22. Enter (accept 01 as APR ID)
23. Enter (accept 69 as AMS ID)
24. Type: I (for installation)
25. Enter
26. Type: Z1
27. Enter (for Z1 installation ID)
28. Press F6 (next screen)
29. Enter (for 1986)
30. Enter (for 10)
31. Press F6 (next screen)
32. Type: 1 (total plus components)
33. Enter
34. Press F6 (Generate the report)
35. Press F10 (for Facility Reports).

A report is printed listing estimated labor, material, and equipment costs for each component for each year.

```
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                    ¤   FUNDING REPORT   ¤
                    àeeeeeeeeeeeeeeeeeeeee¥
èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee£
¤ OPTIONS:                                                               ¤
¤                                                                        ¤
¤                                                                        ¤
¤ 1 - GENERATE REPORT FILE FROM STANDARD APR/AMS COMBINATIONS            ¤
¤                                                                        ¤
¤ 2 - GENERATE REPORT FILE FROM SPECIFIC APR/AMS COMBINATIONS            ¤
¤                                                                        ¤
¤ 3 - PRINT OUT AN EXISTING REPORT FILE                                  ¤
¤                                                                        ¤
¤                                                                        ¤
¤      ENTER OPTION (1,2,OR 3) :     2                                    ¤
¤                                                                        ¤
àeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥


F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-23. Funding Report Options

```
                        APPROPRIATION CODE TABLE
èeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee£
¤APR ID° APR CODE #  °              APR DESCRIPTION                      ¤
UáááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááááN
¤ 01  °  RPMA 1      °   Real Property Maintenance Account-1             ¤
¤ 02  °  RPMA 2      °   Real Property maintenance Account-2             ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
¤     °              °                                                   ¤
àeeeeeeeeUeeeeeeeeeeeeeeeeeUeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee¥
        USE CURSOR AND PAGING CONTROLS TO CHOOSE APR ID FOR REPORT


F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-24. Appropriation Code Table.

```
                        AMS FUNCTIONAL GROUP CODES
èèèèèèè1èèèèèèèèèèèèèè1èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
¤AMS ID° AMS CODE #   °        AMS DESCRIPTION                ¤
ÚáááááéáéáááááááááááééáááááááááááááááááááááááááááááááááááááááÑ
    ¤  61  °  K19XX    °  ALL OTHERS                          ¤
    ¤  62  °  K2000    °  BUILDINGS                           ¤
    ¤  63  °  K2100    °  TRAINING                            ¤
    ¤  64  °  K2200    °  MAINTENANCE & PRODUCTION            ¤
    ¤  65  °  K2300    °  RESEARCH, DEVELOPMENT & TEST        ¤
    ¤  66  °  K2410    °  AMMUNITION STORAGE                  ¤
    ¤  67  °  K2420    °  OTHER COVERED STORAGE               ¤
    ¤  68  °  K2500    °  HOSPITAL & MEDICAL                  ¤
    ¤  69  °  K2600    °  ADMINISTRATION                      ¤
    ¤  70  °  K2700    °  BACHELOR HOUSING                    ¤
    ¤  71  °  K2800    °  COMMUNITY                           ¤
    ¤  72  °  K2910    °  FAMILY HOUSING                      ¤
    ¤      °           °                                      ¤
    ¤      °           °                                      ¤
    ¤      °           °                                      ¤
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         USE CURSOR AND PAGING CONTROLS TO CHOOSE AMS ID FOR REPORT

F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-25. AMS Functional Group Codes.

```
        èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
        ¤  MAINTENANCE RESOURCE PREDICTION REPORTS  ¤
        àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥

    èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
    ¤ REQUESTED REPORT IS AS FOLLOWS:                         ¤
    ¤                                                         ¤
    ¤    èèèèèèèèèèèèèèèèèè£                                   ¤
    ¤    ¤ ORG CODE  = 21 ¤                                   ¤
    ¤    ¤ APPROP ID = 01 ¤                                   ¤
    ¤    ¤ AMS ID    = 69 ¤                                   ¤
    ¤    àèèèèèèèèèèèèèèèè¥                                    ¤
    ¤                                                         ¤
    ¤ PLEASE ENTER ADDITIONAL INFORMATION                     ¤
    ¤                                                         ¤
    ¤ ENTER THE STARTING YEAR FOR THE REPORT        : 1986    ¤
    ¤ ENTER THE NUMBER OF YEARS TO REPORT (10 MAX)  : 10      ¤
    ¤ ENTER STARTING FACILITY ID (BLANKS IF ALL)    :         ¤
    ¤ ENTER END FACILITY ID (BLANKS IF SAME AS START) :       ¤
    àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
      RSMY FILE RS010169.XDB ALREADY EXISTS
      IS IT OK TO DELETE FILE AND CONTINUE (Y or N)?  Y

F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-26. Maintenance Resource Prediction Reports.

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤  MAINTENANCE RESOURCE PREDICTION REPORTS  ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥

èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤ REQUESTED REPORT IS AS FOLLOWS:                              ¤
¤                                                              ¤
¤     èëëëëëëëëëëëëëëëëëë£                                      ¤
¤     ¤ ORG CODE  =  Z1 ¤                                      ¤
¤     ¤ APPROP ID =  01 ¤                                      ¤
¤     ¤ AMS ID    =  69 ¤           FACILITY ID: 33            ¤
¤     àëëëëëëëëëëëëëëëëëë¥                                      ¤
¤                                                              ¤
¤ PLEASE ENTER ADDITIONAL INFORMATION                          ¤
¤                                                              ¤
¤ ENTER THE STARTING YEAR FOR THE REPORT          : 1986       ¤
¤ ENTER THE NUMBER OF YEARS TO REPORT (10 MAX)    : 10         ¤
¤ ENTER STARTING FACILITY ID (BLANKS IF ALL)      :            ¤
¤ ENTER END FACILITY ID (BLANKS IF SAME AS START) :            ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
      REPORT GENERATED FOR SUBINSTAL 01 ; RSMY FILE = RS010169.XDB
                 PLEASE WAIT WHILE REPORTS ARE GENERATED

F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-27. Processing Screen.

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤     FUNDING REPORT PRINT INFORMATION   ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥




èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤    ENTER THE APR ID NO.                      :  01      ¤
¤                                                        ¤
¤    ENTER THE AMS ID NO.                      :  69     ¤
¤                                                        ¤
¤    ENTER "I" FOR INSTAL OR "S" FOR SUBINSTAL :  I      ¤
¤                                                        ¤
¤    ENTER THE SUB INSTAL OR INSTAL ID         :  Z1     ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥


F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-28. Funding Report Print Information

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤  MAINTENANCE RESOURCE PREDICTION REPORTS  ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥

èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤ REQUEST PRINTED REPORT IS AS FOLLOWS:                      ¤
¤                                                            ¤
¤    èëëëëëëëëëëëëëëëëëëëëëëëëë£                               ¤
¤    ¤ ORG CODE  =  Z1            ¤                           ¤
¤    ¤ APPROP ID =  01            ¤                           ¤
¤    ¤ AMS ID    =  69            ¤                           ¤
¤    ¤ SUB INST OR INSTAL  =  Z1 ¤                            ¤
¤    àëëëëëëëëëëëëëëëëëëëëëëëëë¥                               ¤
¤ PLEASE ENTER ADDITIONAL INFORMATION                        ¤
¤                                                            ¤
¤ ENTER THE STARTING YEAR FOR THE REPORT        : 1986       ¤
¤ ENTER THE NUMBER OF YEARS TO REPORT (10 MAX)  : 10         ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
        PRINT OPTIONS:
             1 - TOTAL PLUS Systems
             2 - ALL
        CHOOSE 1 OR 2 :    1

  F1     F2     F3     F4     F5    F6BEGIN F7     F8     F9    F10EXIT
```

Figure 6-29. Maintenance Resource Prediction Reports.

A report is printed listing estimated labor, material, and equipment costs for each system for each year and is also shown on page C-14 through C-16.

Display Data. From the Facility Report Menu:

1. Press F10 (to Facility Information Selection Menu)
2. Down arrow (↓) (to Display Resources)
3. Enter key
4. Down arrow (↓) (to Display - Financial Data
5. Enter key (to Review and Approval Display or Graph)
6. Type: Z1
7. Enter key
8. Type: 01
9. Enter key
10. Type: 69
11. Enter key
12. Enter key (to use BF table)
13. F6 (system will display totals. Use page up and page down to see data)
14. F1 (to Total Resources)
15. Type: G
16. Type: 7
17. Enter key (system will show several screens and display the graph)
18. Type: P (for print)
19. Type: P (for printer)
20. Type: Q (for quit)
21. Type: Y (for Yes if requested)
22. F10 (for Display Resources)
23. F10 (for Facility Information)
24. arrow (↓) (to Facility Reports)
25. key

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤     REVIEW AND APPROVAL      ¤
¤        DISPLAY OR GRAPH       ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥


èëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤ ENTER ORGANIZATION ID:  Z1   ¤
¤ ENTER APR  ID      :  01   ¤
¤ ENTER AMS  ID      :  69   ¤
¤ ENTER TREE ID      :  BF   ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
```

F1   F2   F3   F4   F5   F6BEGIN F7   F8   F9   F10EXIT

Figure 6-30. Review and Approval, Display or Graph.

```
Ins..llation  : Z1   Fort(Prepaired As Requested)        Costs in
Appropriation : 01   Real Property Maintenance Account-1  Thousands of
AMS           : 69   ADMINISTRATION                       Dollars
CACES NO: 0000000    TOTAL SUMMARIES

            Year    1986    1987    1988    1989    1990
1 Occ Count         452     466     476     460     479
2 Lab Hours         295     386     624     501     964
3 Eqp Hours         295     386     624     501     964
4 Lab Costs           4       6       9       8      16
5 Mat Costs           2       2      16       5      31
6 Eqp Costs           0       1       1       1       3
7 Tot Costs           8      10      28      15      51
.............................................................
            Year    1991    1992    1993    1994    1995
1 Occ Cou..c        470     478     480     489     491
2 Lab Hrurs         329     308     728     568     590
3 Eqp Hours         329     308     728     568     590
4 Lab Costs           5       5      13       9      10
5 Mat Costs           2       3       9       7       4
6 Eqp Costs           1       1       2       2       2
7 Tot Costs           8       9      25      19      16

                      Command Mode
F1=TOP  F2=BOT  F3=FIND  PgUp=PREV  PgDn=NEXT  G=GRAPH  F10=EXIT
```

Figure 6-31. Review and approval, Display.

6-26

Real Property Maintenance Account-ADMINISTRATION
CACES NO: 0000000   TOTAL SUMMARIES
                                      TOTL COSTS
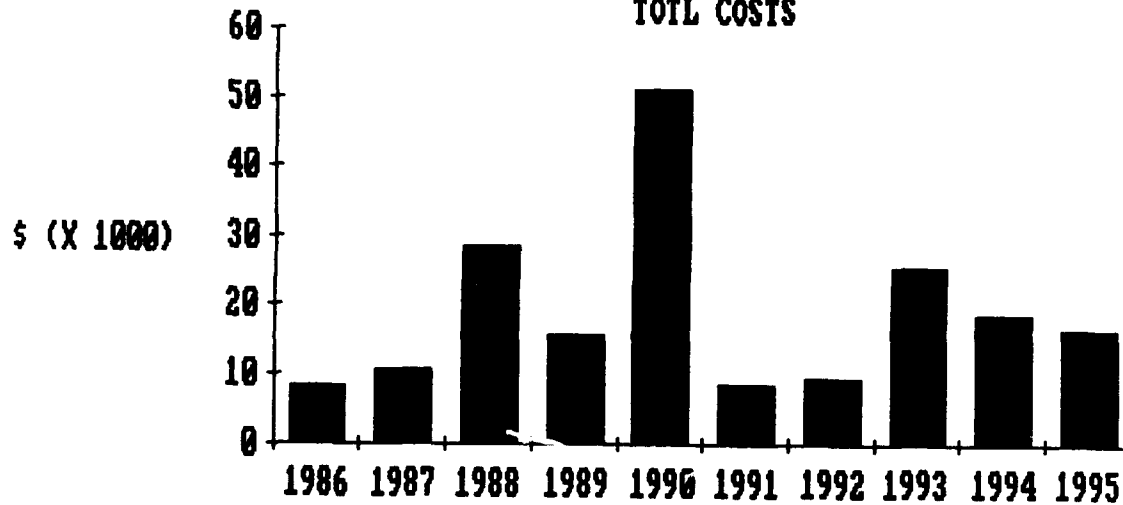
Figure 6-32. Review and Approval, Graph.

6.2.7.6 Resource Summary Report (Read Section 2.3.6.6) . Produce a report for P08901 starting in 1986 for 10 years.

Commands. From the Facility Reports Menu:

1. Down arrow (↓) five times (to Resource Summary)
2. Enter key (for input screen)
3. Type: 1 (for facility ID order)
4. Enter key
5. Press F6
6. Type: P08901
7. Enter key

8. Enter key
9. Type: 1986
10. Enter key
11. Type: 10
12. Enter key
13. Press F6 (system will print the report and return you to the Resource Summary)
14. Press F10 (for Facility Reports Screen).

```
èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
¤                          RESOURCE SUMMARY REPORT                                ¤
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
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¤                                                                                 ¤
¤                    èèèèèèèèèèèèèèèèèèèèèèèèèèèè£                                  ¤
¤                    ¤  GENERATE REPORT BY      ¤                                  ¤
¤                    ¤        .                 ¤                                  u
¤                    ¤                          ¤                                  ¤
¤                    ¤  1)  THE FACILITY ID ORDER ¤                                ¤
¤                    ¤                          ¤                                  ¤
¤                    ¤  2)  THE F4C CODE ORDER  ¤                                  ¤
¤                    ¤                          ¤                                  ¤
¤                    àèèèèèèèèèèèèèèèèèèèèèèèèèè¥                                   ¤
¤                                                                                 ¤
¤                                                                                 ¤
¤                                                                                 ¤
¤                       CHOOSE OPTION 1 OR 2 :  1                                  ¤
¤                                                                                 ¤
¤                                                                                 ¤
¤                                                                                 ¤
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
F1        F2        F3        F4        F5        F6BEGIN F7        F8        F9        F10EXIT
```

Figure 6-33. Resource Summary Report.

```
èèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè£
¤  INPUT SCREEN                                     ¤
¤                                                   ¤
¤     ENTER LOW  FACILITY ID : P08901               ¤
¤     ENTER HIGH FACILITY ID : P08901               ¤
¤                                                   ¤
¤        THE STARTING YEAR : 1986                   ¤
¤     ENTER NUMBER OF YEARS TO REPORT(MAX 10): 10   ¤
¤                                                   ¤
¤                                                   ¤
¤                                                   ¤
¤                                                   ¤
àèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèèè¥
```

```
F1        F2        F3        F4        F5        F6BEGIN F7        F8        F9        F10EXIT
```

Figure 6-34. Resource Summary Report - Input Screen.

6.2.7.7 Total Facility Resource Report (Read Section 2.3.6.7) . Produce a report of total resources for all housing facilities (7000000 - 7999999) starting in 1986 for 10 years.

Commands. From the Facility Reports Menu:

1. Use (↓) (to Facility Total Report)	14. Press F6 (input screen)
2. Enter (for input screen)	15. Type: D (for dollars)
3. Type: 2 (for F4C range)	16. Enter
4. Enter (for input screen)	17. Type: 1 (for individual facilities)
5. Press F6	18. Enter
6. Type: 7000000 (low F4C)	19. Type: 1 (for printer)
7. Enter	20. Enter
8. Type: 7999999 (high F4C)	21. Type: 1 (for print with totals)
9. Enter	22. Enter
10. Type: 1986	23. Press F6 BEGIN (report will be printed)
11. Enter	24. Press F10 (for Facility Reports Selection
12. Type: 10	Menu
13. Enter	

```
èéééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééé£
 ¤                        FACILITY TOTALS REPORT                        ¤
àéééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééé¥
èéééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééé£
 ¤                                                                      ¤
 ¤           INPUT SCREEN                                               ¤
 ¤                                                                      ¤
 ¤            1)  ENTER THE FACILITY ID                                 ¤
 ¤                                                                      ¤
 ¤            2)  ENTER THE F4C CODE                                    ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
 ¤                  CHOOSE OPTION 1 OR 2:  2                            ¤
 ¤                                                                      ¤
 ¤                                                                      ¤
àéééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééééé¥
 F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-35. Facility Totals Report, Input

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤                        FACILITY TOTALS REPORT                             ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
            èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
            ¤                                              ¤
            ¤  INPUT SCREEN                                ¤
            ¤                                              ¤
            ¤     ENTER LOW  F4C CODE    :7000000          ¤
            ¤     ENTER HIGH F4C CODE    :7999999          ¤
            ¤                                              ¤
            ¤     ENTER THE STARTING YEAR:1986             ¤
            ¤     ENTER NUMBER OF YEARS TO REPORT(MAX 10):  10¤
            ¤                                              ¤
            àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥




F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-36. Facility Totals Report, F4C Input.

```
èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
¤                        FACILITY TOTALS REPORT                             ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
            èëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë£
            ¤                                              ¤
            ¤  INPUT SCREEN                                ¤
            ¤                                              ¤
            ¤     PRINT IN DOLLARS(D),                     ¤
            ¤     OR THOUSANDS DOLLARS(T): D               ¤
            ¤                                              ¤
            ¤     REPORT CONTENTS       : 1                ¤
            ¤          1-INDIVIDUAL FACILITIES             ¤
            ¤          2-INDIVIDUAL FACILITIES PER SQ. FOOT ¤
            ¤          3-3 DIGIT F4C SUMMARY               ¤
            ¤          4-3 DIGIT F4C SUMMARY PER SQUARE FOOT ¤
            ¤     PRINT OPTIONS         : 1                ¤
            ¤          1-PRINTER                           ¤
            ¤          2-FILE NAMED:                       ¤
            ¤          3-PRINTER & FILE NAMED:             ¤
            ¤     PRINT TOTAL OPTIONS   : 1                ¤
            ¤          1-PRINT WITH TOTALS                 ¤
            ¤          2-PRINT TOTALS ONLY                 ¤
            àëëëëëëëëëëëëëëPRINT IN DOLLARS        ëëëëëëëëë¥

F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-37. Facility Totals Report, Contents.

The computer will produce one output page as shown on page C-20.

<u>6.2.7.8   Combine Funding Reports</u> - Produce a summary file containing all AMS codes for Appropriation ID:01.

<u>Commands.</u> From the Facility Reports Menu:

1. Down arrow (↓) eight times (to combine funding reports).
2. Enter (See Figure 6-38).
3. Select Appropriation ID 01 by pressing the enter key.
4. Press F6 to generate the file.
5. Press F10 (Facility Reports Menu).

```
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□                          Combine Funding Reports                                □
àéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé¥
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□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□          Enter Appropriation ID : 01                                             □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□                                                                                  □
□          Total file ROZ10100.XDB is being Generated                              □
□                                                                                  □
□          Combine file ROZ10169.XDB                                               □
□                                                                                  □
àéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèéèé¥
F1       F2       F3       F4       F5       F6BEGIN F7      F8       F9       F10EXIT
```

Figure 6-38. Combine Funding Reports

You can use the Display - Financial data option and the print funding reports to view this file.

<u>6.2.7.9   Trade Index Report</u> - Generate a trade report for the carpentry shop (trade ID 01) for all administration facilities F4C: 60000000 through 69999999.

<u>Commands.</u> From the Facility Reports Menu:

1. Down arrow (↓) nine times   5. Type: 60000000
    (to trade index report)   6. Enter
2. Enter   7. Type: 69999999
3. Type: 01 (for Trade ID)   8. Enter
4. Enter   9. F6 Begin

6-31

```
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
a                              TRADE INDEX REPORT                                  a
eeeeeeeeeeeeeeeeeeeeeeeeeeeeee.eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeE
p                                                                                 a
a                                                                                 a
a                                                                                 a
a                                                                                 a
a                                                                                 a
a        Trade ID           : 01                                                  a
a                                                                                 a
a        Starting F4C ID    : 6000000                                             a
a                                                                                 a
a        Ending   F4C ID    : 6999999                                             a
a                                                                                 a
a                                                                                 a
a                                                                                 a
a        Report File T0160000.XDB will be Generated                              a
a                                                                                 a
a                                                                                 a
a        Processing Facility ID: 32                                               a
a                                                                                 a
a                                                                                 a
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeV
F1      F2      F3      F4      F5      F6BEGIN F7      F8      F9      F10EXIT
```

Figure 6-39. Trade Index Report.

The system will produce a file named T0160000.

6.2.8 Copy a Facility (Read Section 2.3.9)

Copy existing facility P12345ABC to produce five new facilities numbered P08001A through P08005A and place in the current directory.

Commands. From the Facility Information Menu:

1. Down Arrow (↓) (to Copy Facility)
2. Enter (to Facility ID
   Copy Function)
3. Type: P08001A
4. Enter
5. Type: P08005A
6. Enter
7. Type: P12345ABC
8. Enter
9. Enter (to use
   current directory)
10. Enter (blank for current)
11. Press F6 (to start the
    process. Facility IDs
    are printed as copied)
12. Press F10 (to Facility
    Selection Menu).

6.2.9 Facility Group to Dwelling Type or Unit (Read Section 2.3.11)

Form a dwelling type by first copying facility ID 01, which is a group of 28 Capehart 8-plexes to Facility ID D00001. Then divide the component quantities by eight to reduce the total building to a dwelling type.

6-32

<u>Commands.</u> From the Facility Information Menu:

1. Down arrow (↓) (to Copy Facility)
2. Enter
3. Type: D00001 (starting)
4. Enter
5. Enter (ending)
6. Type: 01 (existing Facility ID)
7. Enter
8. Enter (for current directory)
9. Enter (for current directory)
10. Press F6 (begin)
11. Press F10 (to Facility Info Menu)
12. Move to General Information and change the number in facility group from 28 to 1

13. Down arrow (↓) nine times (to Facility Group to Dwelling Unit)
14. Enter
15. Type: D00001
16. Enter
17. Type: 8
18. Enter
19. Press F6 (system will divide all quantities by 8)
20. Type: N
21. Enter (for Facility Information Selection Menu).

6.2.10 Global Change to Components (Read Section 2.3.10)

Change the shingle roofing in Facility ID D0001 (CACES No. 0311350) to roll roofing (CACES No. 0311340) which was placed on the facility in 1987.

<u>Commands</u>

From the Facility Information Menu:

1. Down arrow (↓) (to Global Change)
2. Enter
3. Type: D00001
4. Enter
5. Type: D00001
6. Enter
7. Type: 0311350 (current for shingles)
8. Enter

9. Type: 0311340 (new for roll roofing)
10. Enter
11. Type: Y
12. Enter
13. Type: 1987
14. Enter
15. Press F10 (for Facility Information Menu).

6.2.11 Query (Read Section 2.3.7)

Answer the question "What administrative facilities (F4C 6101100) will require shingle roof replacement (CACES No. 0311357) in 1993." Print occurrences, labor hours, and total costs. Use the standard sort.

Commands

From the Facility Information Menu:

1. Down arrow (↓) (to Query)	13. Enter (method 1)
2. Enter	14. Page down (to next screen)
3. Type: 6101100	15. Down arrow (↓)
4. Enter	16. Type: Y (occurrences)
ɔ. Type: 6101100	17. Type: Y (labor hours)
6. Enter	18. Down arrow (↓) (to total costs)
7. Type: 0311357	19. Type: Y
8. Enter	20. Page down (to next screen)
9. Type: 1993	21. Press F6 (to generate report)
10. Enter	22. Press F10 (for Facility Information Menu).
11. Type: 1993	
12. Enter	

6.3 Basic Information Selection Menu (Read Section 2.2).

6.3.1 General Information.

6.3.1.1 Organizational Chart (Read Section 2.2.1.1). This table is basically unchanging once you have added the installations that report under or through your installation and the directories containing your facility tables. Add a new organization no. (180), organization code (XX), description (Learn), and MACOM ID 00.

Commands. From the MRPM main menu:

1. Enter (for Basic Information Selection Menu)	7. Type: XX
	8. (TAB) (Inst. ID)
2. Enter (for General Information Selection Menu)	9. (TAB) (Org Description)
	10. Type: Learn
3. Enter (for Organizational Chart)	11. TAB (MACOM ID)
	12. Type: 00
4. Press F7 ADD	13. Press F9 SAVE
5. Type: 180	14. Press F10 EXIT (to go back to General Information Selection Menu).
6. (TAB)	

6.3.1.2 RMF Factors (Read Section 2.2.1.2) - This table would probably change once every 3 years when the Army would calculates and publishes a new set of RMF factors for your installation. Updates would be provided as a completely new file. For practice, FIND the AMS code for Family Housing, K2910. EDIT the default value to $2.03. EDIT this record again and change the third year to $5.03 and SAVE.

<u>Commands</u> From the General Information Menu:

1. Down arrow (↓) (to RMF Factors)
2. Enter (for RMF [HQUSACE] factor file)
3. Press F3 FIND
4. Type: K2910
5. Enter (find the AMS Code)
6. Press F4 EDIT
7. Down arrow (↓) twice

8. Type: 2.03 (default value)
9. Enter (system will change all years to 2.03)
10. Down arrow (↓) twice
11. Type: 5.03 (year 3)
12. Enter
13. Press F9 SAVE
14. Press F10 (to return to General Information Menu)

<u>6.3.1.3 F4C Conversion Codes (Read Section 2.2.1.3)</u> - This table would change very little and would require no updating of individual records. Updating would be provided as a completely new file.

<u>Commands</u> From the General Information Menu:

1. Down arrow (↓) (to F4C Conversion Codes)
2. Enter (for F4C to AMS Conversion Table)
3. Review table
4. Press F10 (for General Information Menu).

<u>6.3.1.4 Report Periods (Read Section 2.2.1.4)</u> - The report dates in this table would be changed once a year. For practice only, EDIT this table and set the beginning report period year to 1987, the ending report period year to 1996. Look up the correct material adjustment factor for your general area in Table 2-2, but enter 1.0 for this example. Change the organizational code to code Z1. Change the number of lines on a printed page to 66. Enter "F" for the virtual drive letter.

<u>Commands.</u> From the General Information Menu:

1. Down arrow (↓) (to Report Periods)
2. Enter (for Report Period Data)
3. Press F5 EDIT
4. Down arrow (↓) (Advance rpt period 1 yr)
5. Type: Y
6. Enter (system automatically advance years by 1 year)
7. Type: 1.0 (material location adjustment)

8. Enter
9. Type: 1.0 (MTA)
10. Enter
11. Type: 1.0 (RMF TA)
12. Enter
13. Type: Z1 (org. ID)
14. Enter
15. Type: 66 (max. line per pg)
16. Enter
17. Type: F (virtual drive)
18. Press F10 (DO NOT SAVE)
19. Press F10 (for General Information Menu).

6.3.1.5 Unit Cost Factors (Read Section 2.2.1.5) - Unit cost by age factors are stored by facility group under an ID code such as AA. Use the function keys to review this data.

Commands. From the General Information Menu:

1. Down arrow (↓) (to Unit Cost Factors)
2. Enter (for Unit Cost Factors)
3. Use function keys
4. Press F10 (for General Information).

6.3.1.6 Directory Location (Read Section 2.2.1.6) - Review this table to see where directories are stored.

Commands. From the General Information Menu:

1. Down arrow (↓) (to Directory Location)
2. Enter
3. Use keys to move around
4. Press F10 (for General Information Menu)
5. Press F10 (for Basic Information Selection Menu).

6.3.2 Prediction Models.

6.3.2.1 Prediction Model Definition (Read Section 2.2.2.1). Your installation has just started to use new prediction models for railroads called RAILER and BRIDGER. EDIT and type RAILER as model number 5. ADD BRIDGER to the Prediction Model Definition Table as model number 6.

Commands. From the Basic Information Menu:

1. Down arrow (↓) (to Prediction Models)   7. Page Down (for MN5)
2. Enter (for Prediction Model Menu)   8. Press F5 EDIT
3. Enter (for Prediction Model Definitions)   9. Type: RAILER
4. Page Down (for Model No. 2 [MN2])   10. Press F9 SAVE
5. Page Down (for MN3)   11. Page Down (for MN6)
6. Page Down (for MN4)   12. Press F5 EDIT
                                               13. Type: BRIDGER
                                               14. Press F9
                                               15. Press F10 (to move back to the model menu).

6.3.2.2 F4C Prediction Models (Read Section 2.2.2.2) - The F4C code for railroads is 86010. FIND the F4C range containing 86010. EDIT and select RAILER (model number 5) as the CURRENT PREDICTION MODEL to be applied and SAVE. ADD RAILER (5) to the list of ALLOWABLE MODELS.

<u>Commands.</u> From the Prediction Models Menu:

1. Down arrow (↓) (to F4C Prediction Models)
2. Enter (for F4C Prediction Model Definitions)
3. Press F3
4. Type: 86010
5. Enter (system finds and displays information)
6. Press F5 EDIT
7. Down arrow (↓) (to Current Prediction Model)
8. Type: 5
9. Down arrow (↓) three times
10. Type: 5 (for RAILER)
11. Enter (system prints "RAILER")
12. Press F9 SAVE
13. Press F10 (for Prediction Model Menu).

<u>6.3.2.3 Component Prediction Models (Read Section 2.2.2.3)</u> - Your installation has just started to use a new prediction model for the bridge component (CACES Number 0200000) of railroads, BRIDGER (6). FIND the F4C range containing F4C 86030 CACES Number 0200000. EDIT to select BRIDGER as the current model and add BRIDGER to the allowable models, and select as the current prediction model.

<u>Commands.</u> From Prediction Model Menu:

1. Down arrow (↓) (to Component Prediction Models)
2. Enter (for Component Prediction Models Definitions)
3. Press F3 FIND
4. Type: 86030 (F4C code)
5. Enter
6. Type: 0200000 (CACES No.)
7. Press F3 (system displays correct record)
8. Press F5 EDIT
9. Down arrow (↓) four times
10. Type: 6
11. Down arrow (↓) three times
12. Type: 6
13. Enter (system writes: BRIDGER)
14. Press F9 SAVE
15. Press F10 (for Prediction Models Menu)
16. Press F10 (for Basic Information Menu)

<u>6.3.3 Facility Resource Description Data (Read Section 2.2.3.1).</u> Research has just been completed on Community Facilities for Personnel Support and Services, F4C 23000 Series facilities. The research has shown that resource prediction accuracy can be improved greatly by using the new information instead of the general building information currently being used.

<u>6.3.3.1 Component Tree Table (Read Section 2.2.3.2).</u> ADD the new tree ID "BP" titled "Personnel Support and Services" to the table. Do not add any components to the ta at this time. You will add components as described in the next paragraph.

<u>Commands.</u> From Basic Information Menu:

1. Down arrow (↓) (to Facility Resource Data
2. Enter (for Facility Resource Data Menu)
3. Down arrow (↓) (to Component Tree Table)
4. Enter (for Component Tree Table)
5. Press F7 ADD
6. Type: BP
7. Enter
8. Type: Personnel Support and Services
9. Press F9
10. Press F10 (for Command Mode)
11. Press F10 (for Facility Resource Data Menu).

<u>6.3.3.2 Basic Task Table (Read Section 2.2.3.3).</u> ADD the new Basic Task Group ID "P5" which is related to component tree ID "BP" and titled "Personnel Support and Services." ADD the replacement task "0415116." Fill in the levels required as:

Level 2   0400000 Exterior Closure
Level 3   0410000 Exterior Walls
Level 4   0415000 Exterior Finishes
Level 5   0415100 Clay Brick
Level 6   0415110 First Floor

1. Task Id... [0415116]
2. Task Desc.. [REPLACE CLAY BRICK EXTERIOR WALL - 1ST F]
3. Unit of Measure Index. [2]
4. Trade Index. . . . . . [16]
5. Task Classification. . [0]
6. High Task Frequency. . [499.00] in years
7. Average Task Frequency [500.00] in years
8. Low Task Frequency . . [501.00] in years
9. Labor Requirement. . . [1.09213] Labor hours
10. Material Requirements. [1.15000] Costs
11. Equipment Requirements [1.09213] Equipment hours
12. Equipment ID   [1]

Now ADD task 0415112.

1. Task Id... [0415112]
2. Task Desc.. [Repair Clay Brick Exterior Wall - 1st Fl]
3. Unit of Measure Index. [2]
4. Trade Index. . . . . . [16]
5. Task Classification. . [0]
6. High Task Frequency. . [20.00] in years
7. Average Task Frequency [25.00] in years
8. Low Task Frequency . . [30.00] in years
9. Labor Requirement. . . [.02418] Labor hours
10. Material Requirements. [.02300] Cost
11. Equipment Requirements [.02418] Equipment hours
12. Equipment ID   [1]

Commands. From the Facility Resource Data Menu:

1. Down arrow (↓) (to Basic Task Table)
2. Enter (for Basic Task Table)
3. Press F7 ADD
4. Type: BP (Tree ID)
5. Enter
6. Type: P5 (Group ID)
7. Enter
8. Type: Personnel Support and Services (Description)
9. Press F9 SAVE (System puts you in the add a new task mode)
10. Type: 0415116 (Task ID)
11. Enter
12. Type: Exterior Closure
13. Enter
14. Type the next descriptions and hit Enter
15. Press F9 (Save New Levels)
16. Replace Clay Brick Exterior Wall - 1st FL
17. Enter
18. Type screen items (3) through (12)
19. Press F9 SAVE
20. Press F7 ADD (add all information and press F9 SAVE)
21. Press F10 (to go back to Basic Task Table)
22. Press F10 (to go from ADD to Command Mode)
23. Press F10 (to go to Facility Resource Data Menu).

You have just entered several code indexes for:

1. Unit of Measure
2. Trade
3. Task Classification
4. Equipment ID.

Take time to look at those tables now.

6.3.3.2.1 Units of Measure. EDIT and add a new unit of measure, cubic feet, as ID 7 and SAVE.

Commands. From the Facility Resource Data Menu:

1. Down arrow (↓) (to units of measure)
2. Enter (for units of measure)
3. Press F5 EDIT
4. Press F3
5. Type: 7
6. Enter
7. Type: cubic feet
8. Press F9
9. Press F10 (for Facility Resource Data Menu).

6.3.3.2.2 Trade and Costs. EDIT the carpenter rates and change the in-house labor rate to $19.75 per hour, and SAVE.

Commands. From the Facility Resource Data Menu:

1. Down arrow (↓) four times (to Trade and Costs)
2. Enter (for Trade and Cost)
3. Press F5 EDIT
4. Down arrow (↓) (to in-house labor)
5. Type: 19.75
6. Press F9
7. Press F10.

6.3.3.2.3 Task Classification. EDIT the table and add a new task classification, 5, titled "Preventive maintenance," and SAVE.

Commands. From the Facility Resource Data Menu:

1. Down arrow ($\downarrow$) five times (to Task Classification)
2. Enter
3. Press F5 EDIT
4. Down arrow ($\downarrow$) four times (to ID 5)
5. Type: Preventive Maintenance
6. Press F9
7. Press F10 (for Facility Resource Data Menu).

6.3.3.2.4 Equipment and Costs. ADD a new piece of equipment, 04, titled "dozer" at $35/hour.

Commands. From the Facility Resource Data Menu:

1. Down arrow ($\downarrow$) six times to Equipment and Costs	6. Type: Dozer
2. Enter (for Equipment Costs)	7. Enter
3. Press F7 ADD	8. Type: 35.0
4. Type: 04	9. Press F9 SAVE
5. Enter	10. Press F10 (for Facility Resource Data Menu).

6.3.3.2.5 Work Performance Methods. You want to define a new set of work management methods for the tasks defined in the table identified as BP P5. Select Tree ID "BP" and Group ID "P5" (see command lines 1 through 4).

Your supervisor wants you to define six new work management methods by editing the table (see command lines 5 through 11):

Method 1. Fire station
Method 2. Bus and police station
Method 3. Chapels and R.E. facilities
Method 4. Bakery and kitchen
Method 5. Schools
Method 6. Post office.

Now define the major work types under each work management method (see command lines 12 through 20):

Method 1. Contract
Method 2. Troop
Method 3. Self-help
Method 4. In-house
Method 5. No change
Method 6. No change.

Now update the data base.

To define how the work will be performed for the two individual tasks located in Basic Task Table "P5" (see command lines 21 through 32):

Work	Task No.	Task No.
Performance	0415116	0415112
Method		
1	In-house	In-house
2	Contract	In-house
3	Troop	In-house
4	Self-help	Self-help

To define the methods, SELECT "Define an Individual task." FIND task "0415116" and EDIT the task. Define the correct four methods and SAVE. Do the same for the second task.

<u>Commands.</u> From Facility Resource Data Menu:

<u>Select Basic Task Table.</u>

1. Press (↓) to Work Performance Method)
2. Enter (Basic Task File Selection
3. Use (↓) (to BP, P5)
4. Press F6 (for Work Performance Menu)

<u>Define Work Management Methods.</u>

5. Type: 1 (to define methods)
6. Enter
7. Press F5 (to edit table)
8. Enter
9. Type the six entries, ending with Enter
10. Press F9 (to SAVE and go back to selection menu)
11. Enter

<u>Define Work Types.</u>

12. Type: 2 (to define all work types)
13. Enter

14. Press F5 (to edit table)
15. Enter
16. Use space bar to select one of the four options and (↓) to move to the next method. Set all four methods)
17. Press F9 (for Work Performance Main Selection Menu

<u>Individual Task Definitions.</u>

18. Type: 3 (to define individual tasks)
19. Enter
20. Press F5
21. Type: T
22. Type: I
23. Type: I
24. Type: S
25. Press F9
26. Page Down (to task 0415116)
27. Press F5
28. Type: I
29. Type: C
30. Type: T
31. Type: S
32. Press F9 (for Command Mode)
33. Press F10 (for Work Performance Main Menu)
34. Enter (for Basic Task File Selection)
35. Press F10 (for Facility Resource Data Menu).

<u>6.3.3.3 Total/Partial Summary Tasks (Read Section 2.2.3.4).</u> The two tables: (1) total task summary and (2) partial task summary would normally be created by a DA support agency and would require no installation editing. For practice, ADD two new summary group tables related to the Tree ID "BP."

<u>Tree ID</u>	<u>Group ID</u>	<u>Description</u>
1. BP	A5	Total Summary
2. BP	B5	Partial Summary

INSERT one component ID into each file:

Component ID:	1111111
Component Description:	Test
Trade Index:	1
Unit of Measure:	2
Classification Indicator:	0
Work Performance Methods 1 through 6:	I
Number of Years:	5

<u>Years</u>	<u>Labor</u>	<u>Material</u>	<u>Equipment</u>
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5

<u>Commands.</u> From the Facility Resource Data Selection Menu:

1. Down arrow (↓) eight times (to
   Total/Partial Summary Table)
2. Enter

13. Press F10 (to go to ADD MODE for Summary
    Task File)

<u>Total Task Summary.</u>

3. Press F7 ADD
4. Type: BP Tree ID)
5. Enter
6. Type: A5 (Group ID)
7. Enter
8. Type: Total Summary
9. Press F9
10. Type: 1111111 (Component ID)
11. Enter all data for this component
12. Press F9

<u>Partial Task Summary.</u>

14. Type: BP (Tree ID)
15. Enter
16. Type: B5 (Group ID)
17. Enter
18. Type: Partial Summary
19. Press F9
20. Add all 1111111 data and save
21. Press F9 (for ADD MODE)
22. Press F10 (for COMMAND MODE)
23. Press F10 (for Facility Resource Data Selection
    Menu)

<u>6.3.3.4 F4C Resource Description Table (Read Section 2.2.3.1).</u> You have just added four new information files to the MRPM system:

1. Tree ID Table: BP
2. Basic Task Table: P5
3. Total Summary Table: A5
4. Partial Summary Table: B5
5. Unit Cost Table: AA

Use the four new tables for all facilities in the F4C 7300000 series. FIND the 7300000 range entry and EDIT to modify the four table entries to use the new tables, then SAVE your modification.

<u>Commands.</u> From Facility Resource Data:

1. Enter (for F4C Resource Description Table)
2. Press F3
3. Type: 7300000
4. Enter
5. Press F5 EDIT
6. Down arrow (↓) (to tree-ID)
7. Type: BP (tree-ID)
8. Enter
9. Type: P5 (Basic Task)
10. Enter
11. Type: A5 (Total Summary)
12. Enter
13. Type: B5 (Partial Summary)
14. Enter
15. Type: AA (unit cost ID)
16. Enter
17. Press F9
18. Press F10 (for Facility Resource)
19. Press F10 (for Basic Information Menu).

6.3.4 Reference Data for Individual Facilities.

<u>6.3.4.1 Subinstallation and Area Identification (Read Section 2.2.4.1).</u> Add a new area with ID "55" and description "Steam Engine Repair Shops belonging to subinstallation 55."

<u>Commands.</u> From Basic Information Menu:

1. Down arrow (↓) three times (to Data for Individual Facilities)
2. Enter
3. Use (↓) (to Subinstallation)
4. Enter
5. Press F7 ADD
6. Type: 55
7. Enter
8. Type: DEH shops
9. Press F9
10. Press F10 (for Reference Data Menu)
11. Enter (for Area)
12. Press F7 ADD
13. Type: 55
14. Enter
15. Type: 55
16. Enter
17. Type: Steam Engine Repair Shops
18. Press F9
19. Press F10 (for Reference Data Menu).

<u>6.3.4.2 Travel Zones (Read Section 2.2.4.2).</u> You have just installed a new top-security area on your base in travel zone 3. It takes 1 hour to drive from the shop and clear security going in and 30 minutes

coming out. Assume two trips per working day. FIND zone 21, EDIT and change the factor of 8/(8 -2 x 1.5) = 1.60, and SAVE.

Commands. From Reference Data Menu:

1.	Down arrow (↓) (to Travel Zone)	6.	Press F5
2.	Enter	7.	Type: 1.60
3.	Press F3	8.	Press F9
4.	Type: 21	9.	Press F10 (for Reference
5.	Enter		Menu)

6.3.4.3 Special Condition Multipliers. (see 2.2.4.3) - ADD a new special condition multiplier table called "11" to cover "30 day tank training units." SELECT this new table. Use your experience and imagination as you answer the questions. Now look at all the multiplication factors that have been entered.

Commands. From Reference Data Menu:

1.	Down arrow (↓) three times (to Special Condition Multipliers-SCM)	8.	Enter 5 for the installation zone, select any values, use Page Down and Page Up to get to the next page of questions)
2.	Enter (for SCM Definitions)		
3.	Press F7 ADD	9.	Press F9 (for Summary for each CACES
4.	Type: 11	10.	Press F10 (for SCM Definitions)
5.	Type: 30-day tank training units	11.	Press F10 (for Reference Data Menu).
6.	Press F9		
7.	Press F6		

6.3.4.4 Financial Management (Appropriations) (Read Section 2.2.4.4).

6.3.4.4.1 Appropriation Code Table. Two new appropriations have been approved:

APR_ID.	APR Code #	Appropriation Code
03	SC	Space Command
04	FS	Food Service

ADD the new appropriations to the table.

<u>Commands.</u> From Reference Data Menu:

1. Press 4 (↓) to Financial Management)	10. Press F9 SAVE
2. Enter (for Financial Management Menu)	11. Type: 04
	12. Enter
3. Enter (for Appropriation Code Table)	13. Type: FS
	14. Enter
4. Press F7	15. Type: Food Service
5. Type: 03	16. Press F9
6. Enter	17. Press F10
7. Type: SC	18. Press F10 (for Financial Management Menu)
8. Enter	19 Press F10 (for Reference Data Menu).
9. Type: Space Command	

<u>6.3.4.4.2 AMS Functional Group Codes.</u> You will not have to edit this table.

<u>6.3.4.4.3 F4C to AMS Conversion Table.</u> You will not have to edit this table.

<u>6.3.4.4.4 Standard Report Table.</u> You will not have to edit this table.

<u>6.3.4.5 Facility Funding Profile.</u> (Read Section 2.2.4.5) - Several new facilities have been constructed to serve multiple organizations. Many of the new facilities are shared by both organizations. The floor area is split 75 percent for space command (03) and 25 percent for food service (04). All equipment costs are paid 100 percent from appropriation (02). ADD a new funding profile (02) titled "Space Facilities" to the table and SAVE. There will be two labor and material accounts and one equipment account.

<u>Commands.</u> From the Reference Data Menu:

1. Down arrow (↓) five times (to Facility Funding Profile)	14. Type: 75
	15. Enter
2. Enter	16. Type: 04
3. Press F7 ADD	17. Enter
4. Type: 02 (profile ID)	18. Type: 25
5. Enter	19. Enter
6. Type: 2 (Labor & Material Accounts)	20. Type: 02 (equipment)
7. Enter	21. Enter
8. Type: 1 (equipment accounts)	22. Type: 100
9. Press F9 SAVE	23. Press F9 SAVE
10. Type: Space Facilities	24. Press F10 (for Reference Data Menu)
11. Enter	25. Press F10 (for Basic Information Menu)
12. Type: 03	26. Press F10 (for Main Menu)
13. Enter	

<u>6.4 Review and Approval (Read Section 2.4) .</u> Your reporting installation has an organizational code of Z1. Three installations report through your organization. Their organizational codes are Y2, Y3, and Y4. All organizations were requested to prepare a funding report for Appropriation RPMA-1 (01), AMS: K2600 Administration (69) after March 1, 1987 (03011987).

The MACOM can test this section by using organizational ID (ZZ), the Army by using organizational ID (00). Either must first set the correct organization code in the report period screen.

6.4.1 Reporting Installation.

6.4.1.1 Generate Resource Summary (Read Section 2.4.2).

Your supervisor has told you to create a resource prediction summary for your reporting installation (Z1) for RPMA-1 Appropriation ID (01), AMS Code K2600, and AMS ID (69), and have it turned in before 2 p.m. today. You are to use all data regardless of the date it was calculated. Reports are for 1986 through 1995 (10 years).

Commands. From the Main Menu:

1. Down arrow (↓) (to Review and Approval)
2. Enter (for Review and Approval)
3. Enter (for Generate Resource Summary)
4. Type: 1 (to create report for organization ID)
5. Enter
6. Type: 01 (APR No.)
7. Enter
8. Type: 69 (AMS No)
9. EnteR
10. Type: 03011987
11. Enter

12. Press F6 (system responds with a message on the screen and a printed list of errors or problems. Review the printout and continue to process)
13. Enter (to continue to process)
14. Type: 1986 (year)
15. Enter
16. Type: 10 (number of years)
17. Enter
18. Press F6
19. Type: Y (to delete existing file)
20. Enter (system will calculate the funding report)
21. Type: N (no report wanted)
22. Enter (system responds to Review and Approval Menu)
23. Press F10 (for Review and Approval).

6.4.1.2 Display or Graph Existing Report File (Read Section 2.4.3).

Your supervisor requests a screen print of your organization totals and a bar graph of the total costs.

Commands. From Review and Approval Menu:

1. Down arrow (↓) (to Display Resource Summary)
2. Enter
3. Type: Z1 (your organization code)
4. Enter
5. Type: 01 (your APR ID)
6. Enter
7. Type: 69 (your AMS ID)
8. Enter
9. Enter (will use BF table)
10. Press F6 (use function keys to review data; F1 to first record)
11. Print screen

12. Type: G (graph)
13. Type: 7 (total cost)
14. Enter (System shows different screens before the graph appears)
15. Type: P (Print)
16. Type: P (Printer) (System will print the graph and redisplay table when finished)
17. Type: Q (Quit)
18. Type: Y (Yes
19. Press F10 (to Review and Approval).

<u>6.4.1.3 Report for Total and Components (Read Section 2.4.4).</u> Now obtain a printed report for RPMA-1 (01) AMS K2600 (69).

<u>Commands.</u> From the Review and Approval Menu:

1. Down arrow (↓) twice (to report for Total and Component)
2. Enter
3. Type: Z1 (your organization code)
4. Enter
5. Type: 01 (your APR ID)
6. Enter
7. Type: 69 (your AMS ID)
8. Enter
9. Press F6
10. Type: 1986
11. Enter
12. Type: 10
13. Enter
14. Press F6
15. Type: 1 (for total plus components)
16. Enter (report sent to the printer).

<u>6.4.1.4 Ordered Component and Task Report (Read Section 2.4.5).</u> Produce one report for 1986 using a 2 percent cutoff for reporting purposes.

<u>Commands.</u> From Review and Approval Menu:

1. Press 3 (↓) (to ordered Component and Task Report)
2. Enter
3. Down arrow (↓) twice (to Yearly by Funding Report)
4. Enter
5. Type: Z1 (organization ID)
6. Enter
7. Type: 01 (Appropriation ID)
8. Enter
9. Type: 69 (AMS Code)
10. Enter twice (F6)
11. Type: 1986 (Starting Year)
12. Enter
13. Type: 1 (Number of Years)
14. Enter
15. Type: 2 (percent cutoff)
16. Enter
17. Type: 3 (both)
18. Enter
19. Press F6 (report will be generated)
20. Press F10 (to Main Menu)
21. Press F10 (to DOS prompt).

<u>6.4.1.5 Transmit Resource Files to MACOM (Read Section 2.4.6).</u> Now make a copy of your files to send to the MACOM.

<u>Commands.</u> From the "E:\DATA\LEARN\" prompt:

1. Type: Backup ROXX*.* a: (replace <u>XX.</u> with your organization code: Z1, Z2, 00).
2. Enter (follow the directions printed on the screen).

6.5 Saving Directories on Tape.

6.5.1 Saving C:\MAYNARD.

Commands.

1. Type: TMENU. A menu window should appear on the screen with the title "TMENU (V2.0)." Be certain that the BACKUP option is highlighted in RED. If this is not the case, use the arrow keys or the space bar to toggle to the backup option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Select Drive C: for backup. Drive C: should be highlighted; however, if it is not, press the arrow keys to move the selected option to Drive C:.

5. Press Enter. A directory listing for Drive C: should now appear on the screen. Since you would like to back up the directory C:\MAYNARD, press the down arrow key to select the MAYNARD directory.

6. Press space bar. (Notice that your selection is now highlighted in red.) Answer NO to the prompt so as not to include subdirectories in the backup.

7. Hold down (ctrl) and press Enter. Now the screen should display the original menu. (Notice that the GO option is highlighted.)

8. Press Enter to begin backup procedure.

9. Type the label name MAYNARDBKUP to identify the backup volume. The name should be unique and should adequately identify the backup for future reference. Once the procedure is complete, the status screen will display:

    "Backed up XXX files in XX directories"
    "type any key to continue"

10. Press Enter. Press space bar six times to highlight the QUIT option and then press Enter. This completes the steps necessary to back up the C:\MAYNARD directory.

6.5.2 Saving D:\BTRIEVE.

Commands.

1. Type: TMENU. A menu window should appear on the screen with the title "TMENU (V2.0)." Be certain that the BACKUP option is highlighted in RED. If it is not, use the arrow keys or the space bar to toggle to the backup option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Press the down arrow key to select Drive D: for backup. (Notice that Drive D: is now highlighted.)

5. Press Enter. A directory listing for Drive D: should now appear on the screen. To back up the directory D:\BTRIEVE, press the down arrow key to select the BTRIEVE directory.

6. Press space bar. (Your selection is now highlighted in red.) Answer "N" to the prompt.

7. Hold down (Ctrl) and press Enter. Now the screen should display the original menu. (Notice that the "GO" option is highlighted.)

8. Press Enter to begin the backup procedure.

9. Type the label name BTRIEVEBKUP to identify the backup volume. The name should be unique and should adequately identify the backup for future reference. Once the procedure is complete, the status screen will display:

   "Backed up XXX files in XX directories"
   "type any key to continue"

10. Press Enter. Press space bar six times to highlight the QUIT option and then press Enter. This completes the steps necessary to back up the D:\BTRIEVE directory.

6.5.3 Saving E:\DATA\Y1.

<u>Commands.</u>

1. Type: TMENU. A menu window should appear on the screen with the title "TMENU (V2.0)." Be certain that the BACKUP option is highlighted in RED. If it is not, use the arrow keys or the space bar to toggle to the backup option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Press the down arrow key to select Drive E: for backup. (Notice that Drive E: should now be highlighted.)

5. Press Enter. A directory listing for Drive E: should now appear on the screen. Since you would like to back up the directory E:\DATA\Y1, press the down arrow key to select the DATA directory.

6. Press Enter. A directory listing of E:\DATA should now appear on the screen. Use the arrow keys to select the subdirectory Y1.

7. Press space bar. (Notice that your selection is now highlighted in red.) Answer NO to the prompt so as not to include subdirectories in the backup.

8. Hold down (ctrl) and press Enter. Now the screen should display the original menu. (Notice that the "GO" option is highlighted.)

9. Press Enter to begin backup procedure.

10. Type the label name DATAY1BKUP to identify the backup volume. The name should be unique and should adequately identify the backup for future reference. Once the procedure is complete, the status screen will display:

    "Backed up XXX files in XX directories"
    "type any key to continue"

11. Press Enter. Press space bar six times to highlight the "QUIT" option and then press Enter. This completes the steps necessary to back up the E:\DATA\Y1 directory.

6.6 Restoring Directories From Tape.

6.6.1 Restoring C:\MAYNARD.

1. Type: TMENU. A menu window should appear on the screen with the title "TMENU (V2.0)." Use the arrow keys or the space bar to toggle to the RESTORE option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Search for the label name MAYNARDBKUP. You can search the length of the tape by answering NO to the question "Would you like a directory of this information" and then answering YES to the question "Do you wish to search for another backup set on this tape."

5. To select the label name MAYNARDBKUP, answer YES to the question "Would you like a directory of this information." A directory listing for drive C: should now appear on the screen.

6. Press space bar. (Notice that your selection is now highlighted in red.) Answer NO so as not to include the subdirectories.

7. Hold down (ctrl) and press Enter.

8. Press the up arrow key to select the DRIVE option.

9. Press Enter.

10. Press Enter to select Drive C:. (If C: is not highlighted, press the arrow keys to select Drive C:.)

11. The screen displays the original menu. (Again, notice that the GO option is highlighted.) Press Enter.

12. Answer YES to the warning: "Do you wish to continue." Once the procedure is complete, the status screen will display:

"Restored XXX files in XX directories"
"type any key to continue"

13. Press Enter. Press space bar four times to highlight the QUIT option and then press Enter. This completes the steps necessary to restore the C:\MAYNARD directory.

6.6.2 Restoring D:\BTRIEVE.

1. Type: TMENU. A menu window should appear on the screen with the title "TMENU (V2.0)." Use the arrow keys or the space bar to toggle to the RESTORE option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Search for the label name BTRIEVEBKUP. You can search the length of the tape by answering NO to the question "Would you like a directory of this information" and then answering YES to the question "Do you wish to search for another backup set on this tape."

5. To select the label name BTRIEVEBKUP, answer YES to the question "Would you like a directory of this information." A directory listing for Drive D: should now appear on the screen.

6. Press space bar. (Notice that your selection is now highlighted in red.) Answer NO so as not to include the subdirectories.

7. Hold down (ctrl) and press Enter. Now the screen should display the original menu. (Notice that the GO option is highlighted.)

8. Press the up arrow key to select the DRIVE option.

9. Press Enter.

10. Press the down arrow key to highlight Drive D.

11. Press Enter to select Drive D.

12. The screen displays the original menu. (Again, notice that the GO option is highlighted.) Press Enter.

13. Answer YES to the warning: "Do you wish to continue." Once the procedure is complete, the status screen will display:

    "Restored XXX files in XX directories"
    "type any key to continue"

14. Press Enter. Press space bar four times to highlight the QUIT option and then press Enter. This completes the steps necessary to restore the D:\BTRIEVE directory.

6.6.3 Restoring E:\DATA\Y1.

Commands.

1. Type: TMENU. A menu window should appear on the screen with the title TMENU (V2.0). Use the arrow keys or the space bar to toggle to the RESTORE option.

2. Press the down arrow key once to highlight the SELECT option.

3. Press Enter.

4. Search for the label name DATAY1BKUP. You can search the length of the tape by answering NO to the question "Would you like a directory of this information" and then answering YES to the question "Do you wish to search for another backup set on this tape."

5. To select the label name DATAY1BKUP, answer YES to the question "Would you like a directory of this information." A directory listing for drive E: should now appear on the screen.

6. Press Enter. A directory listing of E:\DATA should now appear on the screen. Use the arrow keys to select the subdirectory Y1.

7. Press space bar. (Notice that your selection is now highlighted in red.) Answer NO to the prompt so as not to include subdirectories in the backup.

8. Hold down (ctrl) and press Enter. Now the screen should display the original menu. (Notice that the GO option is highlighted.)

9. Press the up arrow key to select the DRIVE option.

10. Press Enter.

11. Press the down arrow key to highlight Drive E.

12. Press Enter to select Drive E:.

13. The screen displays the original menu. (Again, notice that the GO option is highlighted.) Press Enter.

14. Answer YES to the warning: "Do you wish to continue." Once the procedure is complete, the status screen will display:

    "Restored XXX files in XX directories"
    "type any key to continue"

15. Press Enter. Press space bar four times to highlight the QUIT option and then press Enter. This completes the steps necessary to restore the E:\DATA\Y1 directory.

APPENDIX A:
SYSTEM CHART

MRPM MENU STRUCTURE

MAINTENANCE PREDICTION MODEL
MAIN MENU

BASIC INFORMATION
FACILITY INFORMATION
REVIEW AND APPROVAL
RESEARCH

INSTALLATION LEVEL
REVIEW AND APPROVE

GENERATE RESOURCE SUMMARY
DISPLAY RESOURCE SUMMARY
REPORT FOR TOTAL & COMPONENTS
ORDERED COMPONENT & TASK REPORT

FACILITY INFORMATION
SELECTION MENU

RESOURCE CALCULATION
DISPLAY RESOURCES
FACILITY COMPONENT QUANTITY
GENERAL INFORMATION
FACILITY REPORTS
QUERY
MODEL FACILITY
COPY FACILITY
GLOBAL CHANGE TO COMPONENTS
FAC GROUP TO DWELLING UNIT
DELETE RESOURCE FILES
MOVE FACILITY TO NEW DIRECTORY
DELETE RESOURCE TOTAL FILE

INSTALLATION LEVEL
MODEL FACILITY

FROM IFS DATABASE
FROM INPUT FILE
AT TERMINAL
INPUT FROM EMS

FACILITY REPORTS
SELECTION MENU

F4C/AMS ORGANIZATIONAL SUMMARY
TASK COST REPORT
FACILITY COMPONENT/QUANTITIES
ORDERED YEARLY TASK REPORT
FUNDING REPORT
RESOURCE SUMMARY
COPY FINANCIAL REPORT FILES
FACILITY TOTALS REPORT
COMBINE FUNDING REPORTS
TRADE INDEX REPORT

DISPLAY RESOURCES
SELECTION MENU

DISPLAY RESOURCES GRAPHICALLY
DISPLAY-FINANCIAL DATA
DISPLAY FACILITY TOTAL
DISPLAY TRADE DATA

MRPM MENU STRUCTURE

MAINTENANCE PREDICTION MODEL MAIN MENU

BASIC INFORMATION
FACILITY INFORMATION
REVIEW AND APPROVAL
RESEARCH

BASIC INFORMATION SELECTION MENU

GENERAL INFORMATION
PREDICTION MODELS
FACILITY RESOURCE DATA
DATA FOR INDIVIDUAL FACILITIES

REFERENCE DATA FOR FACILITIES SELECTION MENU

AREA IDENTIFICATION
SUBINSTALLATION IDENTIFICATION
TRAVEL ZONES
SPECIAL CONDITION MULTIPLIER
FINANCIAL MANAGEMENT
FACILITY FUNDING PROFILE

FACILITY RESOURCE DATA SELECTION MENU

F4C RESOURCE DESCRIPTION TABLE
COMPONENT TREE TABLE
BASIC TASK TABLE
UNIT OF MEASURE
TRADE AND COSTS
TASK CLASSIFICATION
EQUIPMENT AND COSTS
WORK PERFORMANCE METHODS
TOTAL/PARTIAL SUMMARY TASKS
F4C DESCRIPTION EDITOR
FACILITY CONSISTENCY CHECK

PREDICTION MODELS SELECTION MENU

PREDICTION MODEL DEFINITIONS
F4C PREDICTION MODELS
COMPONENT PREDICTION MODELS

GENERAL INFORMATION SELECTION MENU

ORGANIZATION CHART
RMF FACTORS
F4C CONVERSION CODES
REPORT PERIODS
UNIT COST FACTORS
DIRECTORY LOCATION

APPENDIX B:
MRPM SYSTEM OPERATIONS

B-1 MEMORY STORAGE LAYOUT.

The system uses three disk storage units: C:, D:, and E:. Drive C: is established for the storage of special hardware support packages as well as standard system files and DOS. Drive D: contains all MRPM software. *You should never add other packages in the D: drive.*

Drive E: contains all data for MRPM. The \DATA directory contains all installations (Y1, Y2, etc.), the reporting installation (RI), and the two learn directories. The Y1 directory contains all Army and installation basic data. Other installation directories (Y2, Y3, etc.) contain only a few installation files that have been copied from \BASEINST.

The directories E:\01 through E:\99 are initialized by copying \BLKFACIL. This series of directories contains all information about individual facilities. One range of directories, for example \09 through \21, could contain all individual facility information for installation Y2.

Directories \MPMV2\MPM and \MSTOOLS were established to allow the Micro Soft Chart package to function correctly. Directories \BASEINST and \BLKFACIL contain initialization files for installations and facility directories, respectively.

B-2 FILES NEEDED IN A NEW INSTALLATION DIRECTORY.

All basic installation- and Army-wide files are stored in E:\DATA\Y1. All installation directories are named E:\DATA\AX where A in AX is an alphabetic character--usually Y--and the X in AX is an alphanumeric character (1-9, A-Z). The required files are stored in the directory named E:\BASEINST. This directory should contain the following files:

1. INSTINFO.DAT
2. TRDCOSTS.DAT
3. EQC-TAB.XDB
4. AREA-TAB.XDB
5. SUB-TAB.XDB
6. FACILITY.XDB (blank)
7. RSMTTOTL.XDB (blank).

The correct directories will be established and loaded by execution of the F3 SETUP function on the Installation Selection Menu.

B-3 FILES NEEDED IN A NEW FACILITY DIRECTORY.

All facility directories are named E:\NN where NN can vary from 01 to 99. The required blank files are stored in the directory named E:\BLKFACIL. This directory should contain FACILITY.XDB (blank). The correct directories will be established and loaded by execution of the F3 SETUP function on the Installation Selection Menu.

B-4 FILES NEEDED IN THE FIRST INSTALLATION DIRECTORY.

The directory name for the first installation will always be E:\DATA\Y1. All basic installation- and Army-wide files are stored in this directory. This directory must be initially loaded from diskettes by the user. This directory should contain the following files:

1. CLASLST.DAT
2. INSTINFO.DAT
3. MC.DAT
4. TRAVTIME.DAT
5. VALLIST.DAT
6. WP-DESC.DAT
7. STDREP.XDB
8. TRWDBF--.DAT
9. AMSF4C.XDB
10. AMSCOD.XDB
11. APRCOD.XDB
12. DES-BSTM.XDB
13. DES-TASK.XDB
14. DES-TRWD.XDB
15. F4C-XTBL.XDB
16. FFPROF.XDB
17. ORGFGC.XDB
18. PMCOMP.XDB
19. PMDE⁻.XDB
20. PMF4C.XDB
21. RMF-FACT.XDB
22. TASKBFA5.XDB
23. TRWDBF--.XDB
24. EQC-TAB.XDB
25. SCMDEF.DAT
26. TASKBFB5.XDB
27. BTSMBFT5.XDB
28. BTSMBFP5.XDB
29. SCMID01.DAT
30. TRDCOSTS.DAT
31. SUB-TAB.XDB
32. GRAPH80.ALL
33. BTSMCFBF.XDB
34. SYLCHART.ASC
35. AREA_TAB.XDB
36. SCMDEF.XDB
37. GRAPH80.AVG
38. GRAPH80.NEW
39. MAINTFIL.DAT
40. TEMPCHART
41. TEMP
42. BTSMBFFT.XDB
43. BTSMBFUT.XDB
44. BTSMBFAT.XDB
45. RSMTTOTL.XDB
46. CALC.LOG
47. F4CDESC.XDB
48. F4CBLD.XDB

B-5 FILES NEEDED IN THE LEARNING DIRECTORIES.

All learn-related files are stored in E:\DATA\LEARNBAS. Files are copied automatically to the E:\DATA\LEARN directory by typing LEARN. The following files are in the directory:

1. R0Y30169.XDB
2. CLASLST.DAT
3. INSTINFO.DAT
4. MC.DAT
5. TRAVTIME.DAT
6. TRDCOSTS.DY1
7. VALLIST.DAT
8. WP-DESC.DAT
9. STDREP.XDB
10. AMSF4C.XDB
11. AMSCOD.XDB
12. APRCOD.XDB
13. DES-BTSM.XDB
14. DES-TASK.XDB
15. DES-TRWD.XDB
16. F4C-XTBL.SAV
17. FFPROF.XDB
18. ORGFGC.XDB
19. PMCOMP.XDB
20. PMDEF.XDB
21. PMF4C.XDB
22. RMF-FACT.XDB
23. TASKBFA5.XDB
24. TRWDBF--XDB
25. EQC-TAB.XDB
26. SCMDEF.DAT
27. TASKBFB5.XDB
28. BTSMBFT5.XDB
29. BTSMBFP5.XDB
30. SCMID01.DAT
31. CTOD1037.XDB
32. TRDCOSTS.DAT
33. TREE1037.DAT
34. SUB-TAB.XDB
35. GRAPH80.ALL
36. BTSMCFBF.XDB
37. SYLCHART.ASC
38. AREA_TAB.XDB
39. SCMDEF.XDB
40. GRAPH80.AVG
41. GRAPH80.NEW
42. MAINTFIL.DAT
43. TEMPCHRT
44. BTSMBFFT.XDB

45. BTSMBFUT.XDB
46. BTSMBFAT.XDB
47. TREE1032.DAT
48. TREE1001.DAT
49. TREE1004.DAT
50. TREE1002.DAT
51. TREE1003.DAT
52. TREE1005.DAT
53. TREE1007.DAT
54. TREE1033.DAT
55. TREE1034.DAT
56. TREE1035.DAT
57. CTOD1001.XDB
58. CTOD1004.XDB
59. CTOD1002.XDB
60. CTOD1003.XDB
61. CTOD1005.XDB
62. CTOD1007.XDB
63. CTOD1032.XDB
64. CTOD1034.XDB
65. CTOD1035.XDB
66. CTOD1033.XDB
67. FACILITY.XDB
68. F4C-XTBL.XDB
69. TEMP
70. RSMY1032.XDB
71. RSMY1033.XDB
72. RSMY1034.XDB
74. RSMY1035.XDB
75. F4CDESC.XDB
76. TRWDBF--.DAT
77. RSMY1037.XDB
78. CALC.LOG
79. BT-PASS.DAT
80. RSMTTOTL.XDB
81. R0010169.XDB
82. SCMPRV01.DAT
83. INSTMENU.TB1
84. R0000169.XDB
85. RSMY1001.XDB
86. RSMY1002.XDB
87. RSMY1003.XDB
88. RSMY1004.XDB
89. RSMY1005.XDB

90. RSMY1069.XDB
91. R0Y20169.XDB
92. RS010169.XDB
93. RS020169.XDB
94. R0Z10169.XDB

B-6 IDENTIFICATION OF FACILITY INFORMATION.

The total facility can be divided into subsystems such as interior construction, roof, and exterior construction (Figure B-2). Each system can be divided into subsystems. Interior Construction can be divided into interior doors, windows, and walls. The subsystems can be divided into components such as hollow core wood doors. A component is the smallest item that is important to describe by itself. For most buildings, a door with all hardware is considered the smallest item or component. In historic family housing, the hinges may be important enough to list separately as a component. This division is known as a tree structure. All parts of this tree structure (total facility, systems, subsystems, components) are stored in a table called the Tree ID Table. Each table has a unique two character name. The building facility Tree ID Table is named BF for building facilities.

For every component, there is a list of tasks that must be performed over its life. The high-cost tasks are marked as major (M) tasks. The remaining tasks are considered low-cost. Each task has information related to its description, unit of measure, trade, work performance, frequency, labor hours, material costs, and equipment hours. All of this information is stored in a table called the Basic Task Table. Each table has a unique two-character name. The administration building Basic Task Table is named AT. The MRPM system will calculate each task independently.

To reduce calculation time, a standard task performance pattern has been established for each component. The total resource requirements for each year were determined and stored with reference to the component. This summary of total resource requirements is stored in the Total Summary Table. For administration facilities, the name of the Total Summary Table is AT. The resources for all components under a subsystem, system, and total facility have to be totaled and changed to resource-per-square-foot form. This information is also stored in the Total Summary Table. The information within this table allows you to:

1. Calculate by using component summaries and not individual tasks. Use of component summaries will provide no information about individual tasks.

2. Model by gross square feet of floor area at the total facility, system, or subsystem level. This allows you to obtain an estimate with very little effort. However, the accuracy of the estimate for one specific facility is questionable when such average data is used.

It was decided to compromise the "all tasks" or "all components" options with a middle ground approach: to define and individually calculate the major high cost tasks (m); to combine all the other tasks for a component into one partial summary task; Or to perform calculations using the major cost tasks and one partial summary. Such partial summary component resource information is stored in the Partial Summary Table. For administration facilities, the Partial Summary Table is named AP.

There is only one Tree ID Table for a facility type such as buildings. The Basic Task, Total, and Partial Summary Tables occur in sets for different types of the typical facility, e.g., administrative, family housing, or unaccompanied personnel housing). The major difference between the tasks is normally the frequency of the interior refinishing. For example, painting of family housing may be once every 3 years whereas administrative buildings may be painted once every 8 years.

Since all Army facilities have an F4C code, the best way to store the names of the four tables is by giving the F4C range to which the tables apply. The F4C range for administrative buildings would be 60000 through 69999.

APPENDIX C:
REPORT FORMATS

Installation: Funding Reporting System Demo
Sub-Installation: 01
Area: 01

Area Totals   F4C 6000000 to 6900000

Number of Facilities: 14
Total Square Footage: 80035

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	2335.0	2347.0	2328.0	2353.0	2341.0	2286.0	2388.0	2358.0	2421.0	2301.0
Equiv. Hours										
Labor	2432.75	3130.09	3036.92	2582.64	2101.21	2243.00	2919.44	2548.77	3187.31	3702.47
Materials	37487.89	61974.33	54190.49	36016.46	25032.46	26177.34	36865.37	28882.19	48039.16	63597.78
Equipment	2432.75	3130.09	3036.92	2582.64	2101.21	2243.00	2919.44	2548.77	3187.31	3702.47
Costs										
Labor	39654.	51222.	49724.	42218.	34904.	37021.	48693.	42352.	53093.	61574.
Materials	37488.	61974.	54190.	36016.	25032.	26177.	36865.	28882.	48039.	63598.
Equipment	8123.	10376.	10085.	8617.	7267.	7558.	10065.	8708.	10922.	12564.
	********	********	********	********	********	********	********	********	********	********
Totals	85265.	123572.	113999.	86851.	67203.	70757.	95624.	79942.	112055.	137736.

Total dollars for all years   973004.16

Sub-Installation: 01
Area: 02

Area Totals   F4C 6000000 to 6900000

Number of Facilities: 2
Total Square Footage: 9622

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	198.0	194.0	206.0	206.0	208.0	209.0	215.0	207.0	212.0	219.0
Equiv. Hours										
Labor	158.81	202.54	230.73	182.63	159.36	356.40	443.32	161.88	197.06	243.27
Materials	981.25	1170.98	14767.40	2546.52	1059.28	7182.92	10870.32	1149.39	1342.14	2240.55
Equipment	158.81	202.54	230.73	182.63	159.36	356.40	443.32	161.88	197.06	243.27
Costs										
Labor	2650.	3362.	3908.	2976.	2668.	5892.	7354.	2708.	3200.	4043.
Materials	981.	1171.	14767.	2547.	1059.	7183.	10870.	1149.	1342.	2241.
Equipment	509.	648.	740.	578.	512.	1142.	1421.	519.	624.	780.
	********	********	********	********	********	********	********	********	********	********
Totals	4140.	5182.	19415.	6101.	4239.	14216.	19645.	4377.	5166.	7064.

Total dollars for all years   89544.46

Installation: Funding Reporting System Demo
Sub-Installation: 02
Area: 03

Area Totals   F4C 6000000 to 6900000

Number of Facilities: 2
Total Square Footage: 5380

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	194.0	217.0	214.0	217.0	225.0	224.0	229.0	231.0	226.0	231.0
Equiv. Hours										
Labor	126.88	240.36	140.12	352.48	299.15	264.85	242.60	272.97	182.44	253.54
Materials	395.48	1035.43	533.64	4132.55	16041.29	2645.04	2979.70	3482.83	1383.18	1947.41
Equipment	126.88	240.36	140.12	352.48	299.15	264.85	242.60	272.97	182.44	253.54
Costs										
Labor	2124.	4336.	2347.	6172.	4995.	4771.	4412.	4847.	3056.	4552.
Materials	395.	1035.	534.	4133.	16041.	2645.	2980.	3483.	1383.	1947.
Equipment	425.	947.	467.	1306.	976.	1054.	983.	1051.	602.	989.
Totals	2944.	6319.	3347.	11610.	22012.	8470.	8375.	9381.	5041.	7488.

Total dollars for all years   84988.70

Sub-Installation: 02
Area: 04

Area Totals   F4C 6000000 to 6900000

Number of Facilities: 1
Total Square Footage: 14297

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	257.0	248.0	260.0	243.0	253.0	243.0	246.0	248.0	263.0	261.0
Equiv. Hours										
Labor	196.11	177.02	514.68	178.50	581.49	190.98	189.57	202.15	303.06	371.39
Materials	2313.92	1766.71	16334.87	1452.89	14061.82	1480.73	2304.21	1705.25	4079.35	2865.47
Equipment	196.11	177.02	514.68	178.50	581.49	190.98	189.57	202.15	303.06	371.39
Costs										
Labor	3238.	2939.	8165.	2957.	9554.	3184.	3137.	3379.	5026.	6129.
Materials	2314.	1767.	16355.	1453.	14062.	1481.	2304.	1705.	4079.	2865.
Equipment	628.	568.	1604.	571.	1862.	613.	607.	648.	971.	1188.
Totals	6179.	5274.	26084.	4981.	25478.	5278.	6048.	5733.	10076.	10183.

Total dollars for all years   105313.33

Installation: Funding Reporting System Demo
Sub-Installation: 01

Sub-Installation Totals   F4C 6000000 to 6900000

Number of Facilities: 16
Total Square Footage: 89657

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	2533.0	2541.0	2534.0	2559.0	2549.0	2495.0	2603.0	2565.0	2633.0	2520.0
Equiv. Hours										
Labor	2591.56	3332.63	3267.65	2765.27	2260.57	2599.41	3362.76	2710.66	3384.37	3945.74
Materials	38469.14	63145.31	68957.89	38562.98	26091.74	33360.26	47735.70	30031.57	49381.30	65838.33
Equipment	2591.56	3332.63	3267.65	2765.27	2260.57	2599.41	3362.76	2710.66	3384.37	3945.74
Costs										
Labor	42305.	54584.	53631.	45194.	37572.	42913.	56047.	45060.	56293.	65617.
Materials	38469.	63145.	68958.	38563.	26092.	33360.	47736.	30032.	49381.	65838.
Equipment	8632.	11024.	10825.	9195.	7778.	8700.	11486.	9227.	11546.	13344.
	********	********	********	********	********	********	********	********	********	********
Totals	89406.	128754.	133414.	92952.	71442.	84973.	115269.	84319.	117221.	144800.

Total dollars for all years   1062548.62

Sub-Installation: 02

Sub-Installation Totals   F4C 6000000 to 6900000

Number of Facilities: 3
Total Square Footage: 19677

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	451.0	465.0	474.0	460.0	478.0	467.0	475.0	479.0	489.0	492.0
Equiv. Hours										
Labor	322.99	417.37	654.80	530.99	880.64	455.83	432.17	475.12	485.49	624.93
Materials	2709.41	2802.14	16868.52	5585.44	30103.11	4125.77	5283.91	5188.08	5462.53	4812.88
Equipment	322.99	417.37	654.80	530.99	880.64	455.83	432.17	475.12	485.49	624.93
Costs										
Labor	5362.	7275.	10491.	9129.	14549.	7956.	7549.	8226.	8082.	10681.
Materials	2709.	2802.	16869.	5585.	30103.	4126.	5284.	5188.	5463.	4813.
Equipment	1052.	1515.	2071.	1877.	2838.	1666.	1590.	1700.	1573.	2178.
	********	********	********	********	********	********	********	********	********	********
Totals	9123.	11592.	29431.	16592.	47490.	13748.	14422.	15114.	15118.	17672.

Total dollars for all years   190302.03

Installation: Funding Reporting System Demo

Installation Totals   F4C 6000000 to 6900000

Number of Facilities: 19
Total Square Footage: 109334

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	2984.0	3006.0	3008.0	3019.0	3027.0	2962.0	3078.0	3044.0	3122.0	3012.0
Equiv. Hours										
Labor	2914.55	3750.00	3922.45	3296.25	3141.22	3055.24	3794.93	3185.78	3869.87	4570.67
Materials	41178.55	65947.44	85826.41	44148.42	56194.85	37486.03	53019.61	35219.65	54843.82	70651.21
Equipment	2914.55	3750.00	3922.45	3296.25	3141.22	3055.24	3794.93	3185.78	3869.87	4570.67
Costs										
Labor	47667.	61859.	64123.	54323.	52121.	50869.	63596.	53286.	64375.	76298.
Materials	41179.	65947.	85826.	44148.	56195.	37486.	53020.	35220.	54844.	70651.
Equipment	9684.	12539.	12896.	11072.	10617.	10367.	13075.	10927.	13119.	15522.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	98529.	140346.	162845.	109544.	118932.	98721.	129691.	99433.	132338.	162471.

Total dollars for all years   1252850.65

Code / Description	1986 OCC	1986 COST $	1987 OCC	1987 COST $	1988 OCC	1988 COST $	1989 OCC	1989 COST $	1990 OCC	1990 COST $	1991 OCC	1991 COST $	1992 OCC	1992 COST $	1993 OCC	1993 COST $	1994 OCC	1994 COST $	1995 OCC	1995 COST $
0000000 TOTAL RESOURCE FOR FACILITY	82	36097	82	7921	59	33677	56	4093	82	36097	80	6732	84	36421	118	9456	118	37631	82	9110
0500000 INTERIOR CONSTRUCTION	59	2765	58	2660	36	345	36	345	59	2765	58	2660	94	2765	94	4626	95	4732	58	4281
0530000 INTERIOR DOORS	59	2765	58	2660	36	345	36	345	59	2765	58	2660	94	2765	94	4626	95	4732	58	4281
0533000 WOOD DOORS	59	2765	58	2660	36	345	36	345	59	2765	58	2660	94	2765	94	4626	95	4732	58	4281
0533100 HOLLOW-CORE	59	2765	58	2660	36	345	36	345	59	2765	58	2660	94	2765	94	4626	95	4732	58	4281
0533102 REPAIR	22	2420	22	2314	0	0	0	0	23	2420	22	2314	22	2420	22	2314	23	2420	22	2314
0533104 REFINISH	36	345	36	345	36	345	36	345	36	345	36	345	36	345	36	345	36	345	0	0
0533105 REPLACE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1794	18	1794	18	1794
0533106 REFINISH REPLCD. WOOD (HOL-COR) INT. DR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	173	18	173	18	173
0600000 INTERIOR FINISHES	23	33332	24	5262	20	33332	20	3748	23	33332	22	4072	22	33657	24	4829	23	32900	24	4829
0610000 WALL FINISHES	23	33332	24	5262	20	33332	20	3748	23	33332	22	4072	22	33657	24	4829	23	32900	24	4829
0611000 GYPSUM & PLASTER PRODUCTS	22	4505	24	5262	20	4505	20	3748	22	4505	22	4072	24	4829	24	4829	22	4072	24	4829
0611100 PLASTER	12	3255	14	4012	10	3255	10	2498	12	3255	10	2498	12	3255	12	3255	10	2498	12	3255
0611102 REPAIR	1	579	2	1158	0	0	1	579	1	579	0	0	1	579	1	579	0	0	1	579
0611103 REFINISH REPAIRED PLASTER WALL FIN.	1	178	2	356	0	0	0	0	1	178	0	0	1	178	1	178	0	0	1	178
0611104 REFINISH	10	2498	10	2498	10	2498	10	2498	10	2498	10	2498	10	2498	10	2498	10	2498	10	2498
0611105 REPLACE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0611106 REFINISH REPLACED PLASTER WALL FIN.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0611300 SHEETROCK (UNSTIPPLED)	10	1249	10	1249	10	1249	10	1249	10	1249	12	1574	12	1574	12	1574	12	1574	12	1574
0611302 REPAIR	0	0	0	0	0	0	0	0	0	0	1	235	1	235	1	235	1	235	1	235
0611303 REFIN.REPRD. SHEETROCK (UNSTIPPLED) WALL	0	0	0	0	0	0	0	0	0	0	1	90	1	90	1	90	1	90	1	90
0611304 REFINISH	10	1249	10	1249	10	1249	10	1249	10	1249	10	1249	10	1249	10	1249	10	1249	10	1249
0611305 REPLACE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0611306 REFIN.RPLD. SHEETROCK (UNSTIPPLED) WALL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0612000 MASONRY & TILE PRODUCTS	1	28827	0	28827	0	28827	0	0	1	28827	0	0	0	28827	0	0	0	28827	0	0
0612800 TILE	1	28827	1	28827	0	28827	0	0	1	28827	0	0	1	28827	0	0	1	28827	0	0
0612802 REPAIR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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INSTALLATION: Funding Reporting System Demo   FACILITY ID: P08901

	1986		1987		1988		1989		1990		1991		1992		1993		1994		1995	
	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $	OCC	COST $
0612805 REPLACE	1	28827	0	0	1	28827	0	0	1	28827	0	0	1	28827	0	0	1	28827	0	0

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	Quantity	Units	SCHEDULED DATES Last	Next
0500000 INTERIOR CONSTRUCTION				
0530000 INTERIOR DOORS				
0533000 WOOD DOORS				
0533100 HOLLOW-CORE	18.0	0	0	0
0533102 REPAIR	.0	1	0	0
0533104 REFINISH	.0	1	1983 C	0
0533105 REPLACE	.0	1	0	0
0533106 REFINISH REPLCD. WOOD (HOL-COR	.0	1	1973 C	0
0600000 INTERIOR FINISHES				
0610000 WALL FINISHES				
0611000 GYPSUM & PLASTER PRODUCTS				
0611100 PLASTER	2600.0	1	0	0
0611102 REPAIR	.0	2	1963 C	0
0611103 REFINISH REPAIRED PLASTER WALL	.0	2	1963 C	0
0611104 REFINISH	.0	2	1984 C	0
0611105 REPLACE	.0	2	0	0
0611106 REFINISH REPLACED PLASTER WALL	1300.0	2	0	0
0611300 SHEETROCK (UNSTIPPLED)	.0	2	1936 U	0
0611302 REPAIR	.0	2	1976 C	0
0611303 REFIN.REPRD. SHEETROCK (UNSTIP	.0	2	1976 C	0
0611304 REFINISH	.0	2	1985 C	0
0611305 REPLACE	.0	2	1936 U	0
0611306 REFIN.RPLD. SHEETROCK (UNSTIPP	.0	2	1936 U	0
0612000 MASONRY & TILE PRODUCTS				
0612800 TILE	1090.0	2	0	1990 U
0612802 REPAIR	.0	2	0	1990 U
0612805 REPLACE	.0	2	0	1990 U

****** Finished ******

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ORDERED YEARLY TASK REPORT

INSTALLATION: Funding Reporting System Demo   REPORT YEAR: 1986   CURRENT DATE: 6/ 5/87   PAGE   1
FACILITY ID : P08901   F4C CODE : 7112900
NUMBER OF FACILITIES IN GROUP: 10

COMPONENT CODE	COMPONENT DESCRIPTION	NUMBER OF OCCURRENCES	DOLLAR AMOUNT	DOLLAR PER SQFT	PERCENT OF TOTAL
0000000	TOTAL DOLLAR AMOUNT FOR YEAR		36097.		
0612800	TILE	1.0	28827.	1.44	79.86
0611100	PLASTER	12.0	3255.	.16	9.02
0533100	HOLLOW-CORE	59.0	2765.	.14	7.66
0611300	SHEETROCK (UNSTIPPLED)	10.0	1249.	.06	3.46

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INSTALLATION: Funding Reporting System Demo   REPORT YEAR: 1986   CURRENT DATE: 6/ 5/87
FACILITY ID : P08901   F4C CODE : 7112900
NUMBER OF FACILITIES IN GROUP: 10

TASK CODE	TASK DESCRIPTION	NUMBER OF OCCURRENCES	DOLLAR AMOUNT	DOLLAR PER SQFT	PERCENT OF TOTAL
0000000	TOTAL DOLLAR AMOUNT FOR YEAR		36097.		
0612805	REPLACE	1.0	28827.	1.44	79.86
0611104	REFINISH	10.0	2498.	.12	6.92
0533102	REPAIR	23.0	2420.	.12	6.70
0611304	REFINISH	10.0	1249.	.06	3.46

0000000 TOTAL RESOURCE FOR FACILITY

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	135.0	152.0	163.0	156.0	164.0	163.0	180.0	161.0	174.0	163.0
Hours										
Labor	103.02	115.73	335.42	118.22	227.93	120.87	183.51	123.38	200.90	128.04
Equipment	103.02	115.73	335.42	118.22	227.93	120.87	183.51	123.38	200.90	128.04
Costs										
Labor	1633.	1911.	5490.	1952.	4082.	1991.	3053.	2034.	3297.	2107.
Materials	711.	230.	6989.	256.	1981.	303.	11753.	788.	553.	658.
Equipment	330.	398.	1100.	406.	928.	414.	614.	422.	670.	437.
Totals	2673.	2539.	13579.	2614.	6990.	2707.	15420.	3244.	4520.	3183.
Total dollars for all years			57468.							

0300000 ROOFING

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	3.0	4.0	3.0	4.0	1.0	3.0	3.0	4.0	3.0	4.0
Hours										
Labor	6.26	6.87	6.26	8.40	106.90	6.26	6.26	6.87	6.26	8.40
Equipment	6.26	6.87	6.26	8.40	106.90	6.26	6.26	6.87	6.26	8.40
Costs										
Labor	102.	112.	102.	137.	2097.	102.	102.	112.	102.	137.
Materials	49.	49.	49.	73.	1659.	49.	49.	49.	49.	73.
Equipment	20.	22.	20.	27.	513.	20.	20.	22.	20.	27.
Totals	172.	183.	172.	237.	4269.	172.	172.	183.	172.	237.
Total dollars for all years			5968.							

0400000 EXTERIOR CLOSURE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	40.0	54.0	56.0	56.0	55.0	57.0	55.0	54.0	59.0	54.0
Hours										
Labor	.97	18.00	17.75	20.11	18.85	19.73	18.85	18.00	77.40	18.00
Equipment	.97	18.00	17.75	20.11	18.85	19.73	18.85	18.00	77.40	18.00
Costs										
Labor	16.	354.	349.	389.	368.	382.	368.	354.	1324.	354.
Materials	6.	12.	17.	23.	62.	24.	62.	12.	277.	12.
Equipment	3.	85.	84.	92.	88.	90.	88.	85.	275.	85.
Totals	24.	451.	449.	503.	518.	495.	518.	451.	1726.	451.
Total dollars for all years			5586.							

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ORGANIZATION : 21   UP-TO-DATE INSTALLATION REPORT
APPROPRIATION 01   Real Property Maintenance Acco
AMS : 07   ADMINISTRATION

0500000 INTERIOR CONSTRUCTION

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	2.0	1.0	1.0	3.0	1.0	2.0	6.0	2.0	2.0	1.0
Hours										
Labor	.53	.26	.26	1.52	.26	.53	1.84	1.30	1.30	.26
Equipment	.53	.26	.26	1.52	.26	.53	1.84	1.30	1.30	.26
Costs										
Labor	9.	4.	4.	25.	4.	9.	30.	21.	21.	4.
Materials	9.	4.	4.	11.	4.	9.	93.	89.	89.	4.
Equipment	2.	1.	1.	5.	1.	2.	6.	4.	4.	1.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	19.	10.	10.	41.	10.	19.	129.	115.	115.	10.

Total dollars for all years   476.

0600000 INTERIOR FINISHES

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	3.0	3.0	4.0	3.0	3.0	3.0	6.0	3.0	5.0	3.0
Hours										
Labor	28.24	28.24	236.74	28.24	28.24	28.24	44.08	28.24	45.85	28.24
Equipment	28.24	28.24	236.74	28.24	28.24	28.24	44.08	28.24	45.85	28.24
Costs										
Labor	467.	467.	3876.	467.	467.	467.	726.	467.	755.	467.
Materials	114.	114.	6529.	114.	114.	114.	265.	114.	168.	114.
Equipment	90.	90.	758.	90.	90.	90.	141.	90.	147.	90.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	671.	671.	11162.	671.	671.	671.	1132.	671.	1069.	671.

Total dollars for all years   18061.

0800000 PLUMBING

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	12.0	10.0	14.0	10.0	21.0	17.0	23.0	12.0	19.0	14.0
Hours										
Labor	14.36	8.73	11.38	7.17	17.88	12.27	17.22	9.75	13.12	9.36
Equipment	14.36	8.73	11.38	7.17	17.88	12.27	17.22	9.75	13.12	9.36
Costs										
Labor	217.	132.	172.	108.	270.	185.	260.	147.	198.	141.
Materials	533.	4.	6.	3.	90.	62.	760.	48.	9.	5.
Equipment	46.	28.	36.	23.	57.	39.	55.	31.	42.	30.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	796.	164.	215.	135.	418.	286.	1076.	227.	249.	176.

Total dollars for all years   3741.

ORGANIZATION : Z1   UP-TO-DATE INSTALLATION REPORT
APPROPRIATION 01   Real Property Maintenance Acco
AMS : 07   ADMINISTRATION
0900000 HEATING, VENTILATION AND AIRCONDITIONING

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	57.0	56.0	58.0	56.0	57.0	56.0	57.0	56.0	57.0	57.0
Hours										
Labor	45.04	43.47	51.77	43.47	45.04	43.47	45.04	46.42	45.04	50.19
Equipment	45.04	43.47	51.77	43.47	45.04	43.47	45.04	46.42	45.04	50.19
Costs										
Labor	690.	666.	793.	666.	690.	666.	690.	711.	690.	769.
Materials	0.	0.	301.	0.	0.	0.	0.	295.	0.	301.
Equipment	144.	139.	166.	139.	144.	139.	144.	149.	144.	161.
Totals	834.	805.	1260.	805.	834.	805.	834.	1155.	834.	1231.

Total dollars for all years   9397.

1100000 INTERIOR ELECTRICAL

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	18.0	24.0	26.0	24.0	26.0	25.0	29.0	29.0	29.0	29.0
Hours										
Labor	7.61	10.15	10.95	9.30	10.75	10.37	49.64	12.48	11.92	13.02
Equipment	7.61	10.15	10.95	9.30	10.75	10.37	49.64	12.48	11.92	13.02
Costs										
Labor	132.	176.	189.	160.	185.	180.	866.	216.	206.	225.
Materials	1.	46.	44.	32.	51.	46.	10522.	142.	111.	128.
Equipment	24.	32.	35.	30.	34.	33.	159.	40.	38.	42.
Totals	157.	254.	268.	222.	271.	259.	11548.	398.	355.	394.

Total dollars for all years   14125.

1200000 SPECIAL INTERIOR ELECTRICAL SYSTEM

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	1.0	.0	.0	.0	1.0	1.0	.0	1.0
Hours										
Labor	.00	.00	.31	.00	.00	.00	.57	.31	.00	.57
Equipment	.00	.00	.31	.00	.00	.00	.57	.31	.00	.57
Costs										
Labor	0.	0.	5.	0.	0.	0.	10.	5.	0.	10.
Materials	0.	0.	38.	0.	0.	0.	1.	38.	0.	1.
Equipment	0.	0.	1.	0.	0.	0.	2.	1.	0.	2.
Totals	0.	0.	44.	0.	0.	0.	13.	44.	0.	13.

Total dollars for all years   114.

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FACILITY ID: P08901

REPORT NAME: RSMY1038.XDB

0000000 TOTAL RESOURCE FOR FACILITY

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	82.0	82.0	59.0	56.0	82.0	80.0	84.0	118.0	118.0	82.0
Hours										
Labor	1679.48	257.02	1655.72	167.36	1679.48	206.27	1695.65	290.23	1712.69	280.70
Equipment	1679.48	257.02	1655.72	167.36	1679.48	206.27	1695.65	290.23	1712.69	280.70
Costs										
Labor	26544.	4232.	26155.	2767.	26544.	3403.	26809.	4777.	27089.	4619.
Materials	4179.	2866.	2224.	791.	4179.	2669.	4186.	3750.	5062.	3593.
Equipment	5374.	822.	5298.	536.	5374.	660.	5426.	929.	5481.	898.
Totals	********	********	********	********	********	********	********	********	********	********
	36097.	7921.	33677.	4093.	36097.	6732.	36421.	9456.	37631.	9110.

Total dollars for all years 217236.

0500000 INTERIOR CONSTRUCTION

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	59.0	58.0	36.0	36.0	59.0	58.0	59.0	94.0	95.0	58.0
Hours										
Labor	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Equipment	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Costs										
Labor	546.	529.	158.	158.	546.	529.	546.	1356.	1373.	1198.
Materials	2112.	2027.	157.	157.	2112.	2027.	2112.	3006.	3091.	2849.
Equipment	107.	103.	31.	31.	107.	103.	107.	265.	268.	234.
Totals	********	********	********	********	********	********	********	********	********	********
	2765.	2660.	345.	345.	2765.	2660.	2765.	4626.	4732.	4281.

Total dollars for all years 27944.

0530000 INTERIOR DOORS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	59.0	58.0	36.0	36.0	59.0	58.0	59.0	94.0	95.0	58.0
Hours										
Labor	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Equipment	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Costs										
Labor	546.	529.	158.	158.	546.	529.	546.	1356.	1373.	1198.
Materials	2112.	2027.	157.	157.	2112.	2027.	2112.	3006.	3091.	2849.
Equipment	107.	103.	31.	31.	107.	103.	107.	265.	268.	234.
Totals	********	********	********	********	********	********	********	********	********	********
	2765.	2660.	345.	345.	2765.	2660.	2765.	4626.	4732.	4281.

Total dollars for all years 27944.

0533000 WOOD DOORS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	59.0	58.0	36.0	36.0	59.0	58.0	59.0	94.0	95.0	58.0
Hours										
Labor	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Equipment	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Costs										
Labor	546.	529.	158.	158.	546.	529.	546.	1356.	1373.	1198.
Materials	2112.	2027.	157.	157.	2112.	2027.	2112.	3006.	3091.	2849.
Equipment	107.	103.	31.	31.	107.	103.	107.	265.	268.	234.
Totals	2765.	2660.	345.	345.	2765.	2660.	2765.	4626.	4732.	4281.

Total dollars for all years 27944.

0533100 HOLLOW-CORE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	59.0	58.0	36.0	36.0	59.0	58.0	59.0	94.0	95.0	58.0
Hours										
Labor	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Equipment	33.30	32.26	9.53	9.53	33.30	32.26	33.30	82.77	83.80	73.23
Costs										
Labor	546.	529.	158.	158.	546.	529.	546.	1356.	1373.	1198.
Materials	2112.	2027.	157.	157.	2112.	2027.	2112.	3006.	3091.	2849.
Equipment	107.	103.	31.	31.	107.	103.	107.	265.	268.	234.
Totals	2765.	2660.	345.	345.	2765.	2660.	2765.	4626.	4732.	4281.

Total dollars for all years 27944.

0533102 REPAIR

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	23.0	22.0	.0	.0	23.0	22.0	23.0	22.0	23.0	22.0
Hours										
Labor	23.76	22.73	.00	.00	23.76	22.73	23.76	22.73	23.76	22.73
Equipment	23.76	22.73	.00	.00	23.76	22.73	23.76	22.73	23.76	22.73
Costs										
Labor	389.	372.	0.	0.	389.	372.	389.	372.	389.	372.
Materials	1955.	1870.	0.	0.	1955.	1870.	1955.	1870.	1955.	1870.
Equipment	76.	73.	0.	0.	76.	73.	76.	73.	76.	73.
Totals	2420.	2314.	0.	0.	2420.	2314.	2420.	2314.	2420.	2314.

Total dollars for all years 18936.

0533104 REFINISH

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	.0
Hours										
Labor	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	.00
Equipment	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	9.53	.00
Costs										
Labor	158.	158.	158.	158.	158.	158.	158.	158.	158.	0.
Materials	157.	157.	157.	157.	157.	157.	157.	157.	157.	0.
Equipment	31.	31.	31.	31.	31.	31.	31.	31.	31.	0.
Totals	********	********	********	********	********	********	********	********	********	********
	345.	345.	345.	345.	345.	345.	345.	345.	345.	0.

Total dollars for all years   3108.

0533105 REPLACE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	18.0	18.0	18.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	45.73	45.73	45.73
Equipment	.00	.00	.00	.00	.00	.00	.00	45.73	45.73	45.73
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	748.	748.	748.
Materials	0.	0.	0.	0.	0.	0.	0.	900.	900.	900.
Equipment	0.	0.	0.	0.	0.	0.	0.	146.	146.	146.
Totals	********	********	********	********	********	********	********	********	********	********
	0.	0.	0.	0.	0.	0.	0.	1794.	1794.	1794.

Total dollars for all years   5382.

0533106 REFINISH REPLCD. WOOD (HOL-COR) INT. DR

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	18.0	18.0	18.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	4.77	4.77	4.77
Equipment	.00	.00	.00	.00	.00	.00	.00	4.77	4.77	4.77
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	79.	79.	79.
Materials	0.	0.	0.	0.	0.	0.	0.	79.	79.	79.
Equipment	0.	0.	0.	0.	0.	0.	0.	15.	15.	15.
Totals	********	********	********	********	********	********	********	********	********	********
	0.	0.	0.	0.	0.	0.	0.	173.	173.	173.

Total dollars for all years   518.

0600000 INTERIOR FINISHES

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	23.0	24.0	23.0	20.0	23.0	22.0	25.0	24.0	23.0	24.0
Hours										
Labor	1646.18	224.75	1646.18	157.83	1646.18	174.00	1662.36	207.46	1628.89	207.46
Equipment	1646.18	224.75	1646.18	157.83	1646.18	174.00	1662.36	207.46	1628.89	207.46
Costs										
Labor	25998.	3703.	25998.	2609.	25998.	2874.	26263.	3421.	25716.	3421.
Materials	2066.	839.	2066.	634.	2066.	641.	2074.	744.	1971.	744.
Equipment	5268.	719.	5268.	505.	5268.	557.	5320.	664.	5212.	664.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	33332.	5262.	33332.	3748.	33332.	4072.	33657.	4829.	32900.	4829.

Total dollars for all years: 189292.

0610000 WALL FINISHES

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	23.0	24.0	23.0	20.0	23.0	22.0	25.0	24.0	23.0	24.0
Hours										
Labor	1646.18	224.75	1646.18	157.83	1646.18	174.00	1662.36	207.46	1628.89	207.46
Equipment	1646.18	224.75	1646.18	157.83	1646.18	174.00	1662.36	207.46	1628.89	207.46
Costs										
Labor	25998.	3703.	25998.	2609.	25998.	2874.	26263.	3421.	25716.	3421.
Materials	2066.	839.	2066.	634.	2066.	641.	2074.	744.	1971.	744.
Equipment	5268.	719.	5268.	505.	5268.	557.	5320.	664.	5212.	664.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	33332.	5262.	33332.	3748.	33332.	4072.	33657.	4829.	32900.	4829.

Total dollars for all years: 189292.

0611000 GYPSUM & PLASTER PRODUCTS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	22.0	24.0	22.0	20.0	22.0	22.0	24.0	24.0	22.0	24.0
Hours										
Labor	191.29	224.75	191.29	157.83	191.29	174.00	207.46	207.46	174.00	207.46
Equipment	191.29	224.75	191.29	157.83	191.29	174.00	207.46	207.46	174.00	207.46
Costs										
Labor	3156.	3703.	3156.	2609.	3156.	2874.	3421.	3421.	2874.	3421.
Materials	737.	839.	737.	634.	737.	641.	744.	744.	641.	744.
Equipment	612.	719.	612.	505.	612.	557.	664.	664.	557.	664.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	4505.	5262.	4505.	3748.	4505.	4072.	4829.	4829.	4072.	4829.

Total dollars for all years: 45156.

0611100 PLASTER

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	12.0	14.0	12.0	10.0	12.0	10.0	12.0	12.0	10.0	12.0
Hours										
Labor	138.68	172.14	138.68	105.22	138.68	105.22	138.68	138.68	105.22	138.68
Equipment	138.68	172.14	138.68	105.22	138.68	105.22	138.68	138.68	105.22	138.68
Costs										
Labor	2286.	2833.	2286.	1739.	2286.	1739.	2286.	2286.	1739.	2286.
Materials	525.	628.	525.	422.	525.	422.	525.	525.	422.	525.
Equipment	444.	551.	444.	337.	444.	337.	444.	444.	337.	444.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	3255.	4012.	3255.	2498.	3255.	2498.	3255.	3255.	2498.	3255.

Total dollars for all years   31040.

0611102 REPAIR

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	1.0	2.0	1.0	.0	1.0	.0	1.0	1.0	.0	1.0
Hours										
Labor	24.54	49.08	24.54	.00	24.54	.00	24.54	24.54	.00	24.54
Equipment	24.54	49.08	24.54	.00	24.54	.00	24.54	24.54	.00	24.54
Costs										
Labor	401.	802.	401.	0.	401.	0.	401.	401.	0.	401.
Materials	99.	199.	99.	0.	99.	0.	99.	99.	0.	99.
Equipment	79.	157.	79.	0.	79.	0.	79.	79.	0.	79.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	579.	1158.	579.	0.	579.	0.	579.	579.	0.	579.

Total dollars for all years   4632.

0611103 REFINISH REPAIRED PLASTER WALL FIN.

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	1.0	2.0	1.0	.0	1.0	.0	1.0	1.0	.0	1.0
Hours										
Labor	8.92	17.85	8.92	.00	8.92	.00	8.92	8.92	.00	8.92
Equipment	8.92	17.85	8.92	.00	8.92	.00	8.92	8.92	.00	8.92
Costs										
Labor	146.	292.	146.	0.	146.	0.	146.	146.	0.	146.
Materials	3.	7.	3.	0.	3.	0.	3.	3.	0.	3.
Equipment	29.	57.	29.	0.	29.	0.	29.	29.	0.	29.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	178.	356.	178.	0.	178.	0.	178.	178.	0.	178.

Total dollars for all years   1423.

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INSTALLATION: Funding Reporting System Demo
FACILITY ID: P08901

REPORT NAME: RSMY1038.XDB

0611104 REFINISH

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Hours										
Labor	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22
Equipment	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22	105.22
Costs										
Labor	1739.	1739.	1739.	1739.	1739.	1739.	1739.	1739.	1739.	1739.
Materials	422.	422.	422.	422.	422.	422.	422.	422.	422.	422.
Equipment	337.	337.	337.	337.	337.	337.	337.	337.	337.	337.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	2498.	2498.	2498.	2498.	2498.	2498.	2498.	2498.	2498.	2498.

Total dollars for all years   24985.

0611105 REPLACE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Equipment	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Materials	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Equipment	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Total dollars for all years   0.

0611106 REFINISH REPLACED PLASTER WALL FIN.

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Equipment	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Materials	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Equipment	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	*********	*********	*********	*********	*********	*********	*********	*********	*********	*********
Totals	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Total dollars for all years   0.

0611300 SHEETROCK (UNSTIPPLED)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	10.0	10.0	10.0	10.0	10.0	12.0	12.0	12.0	12.0	12.0
Hours										
Labor	52.61	52.61	52.61	52.61	52.61	68.78	68.78	68.78	68.78	68.78
Equipment	52.61	52.61	52.61	52.61	52.61	68.78	68.78	68.78	68.78	68.78
Costs										
Labor	870.	870.	870.	870.	870.	1135.	1135.	1135.	1135.	1135.
Materials	211.	211.	211.	211.	211.	219.	219.	219.	219.	219.
Equipment	168.	168.	168.	168.	168.	220.	220.	220.	220.	220.
Totals	1249.	1249.	1249.	1249.	1249.	1574.	1574.	1574.	1574.	1574.

Total dollars for all years   14116.

0611302 REPAIR

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	1.0	1.0	1.0	1.0	1.0
Hours										
Labor	.00	.00	.00	.00	.00	11.71	11.71	11.71	11.71	11.71
Equipment	.00	.00	.00	.00	.00	11.71	11.71	11.71	11.71	11.71
Costs										
Labor	0.	0.	0.	0.	0.	191.	191.	191.	191.	191.
Materials	0.	0.	0.	0.	0.	6.	6.	6.	6.	6.
Equipment	0.	0.	0.	0.	0.	37.	37.	37.	37.	37.
Totals	0.	0.	0.	0.	0.	235.	235.	235.	235.	235.

Total dollars for all years   1175.

0611303 REFIN.REPRD. SHEETROCK (UNSTIPPLED) WALL

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	1.0	1.0	1.0	1.0	1.0
Hours										
Labor	.00	.00	.00	.00	.00	4.46	4.46	4.46	4.46	4.46
Equipment	.00	.00	.00	.00	.00	4.46	4.46	4.46	4.46	4.46
Costs										
Labor	0.	0.	0.	0.	0.	74.	74.	74.	74.	74.
Materials	0.	0.	0.	0.	0.	2.	2.	2.	2.	2.
Equipment	0.	0.	0.	0.	0.	14.	14.	14.	14.	14.
Totals	0.	0.	0.	0.	0.	90.	90.	90.	90.	90.

Total dollars for all years   449.

INSTALLATION: Funding Reporting System Demo

RESOURCE SUMMARY REPORT
FACILITY ID: P08901

REPORT NAME: RSMY1038.XDB

0611304   REFINISH

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Hours										
Labor	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61
Equipment	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61	52.61
Costs										
Labor	870.	870.	870.	870.	870.	870.	870.	870.	870.	870.
Materials	211.	211.	211.	211.	211.	211.	211.	211.	211.	211.
Equipment	168.	168.	168.	168.	168.	168.	168.	168.	168.	168.
	********	********	********	********	********	********	********	********	********	********
Totals	1249.	1249.	1249.	1249.	1249.	1249.	1249.	1249.	1249.	1249.

Total dollars for all years   12492.

0611305   REPLACE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Equipment	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Materials	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Equipment	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	********	********	********	********	********	********	********	********	********	********
Totals	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Total dollars for all years   0.

0611306   REFIN.RPLD. SHEETROCK (UNSTIPPLED) WALL

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Equipment	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Materials	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Equipment	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
	********	********	********	********	********	********	********	********	********	********
Totals	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Total dollars for all years   0.

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0612000 MASONRY & TILE PRODUCTS

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	1.0	.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0
Hours										
Labor	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Equipment	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Costs										
Labor	22842.	0.	22842.	0.	22842.	0.	22842.	0.	22842.	0.
Materials	1330.	0.	1330.	0.	1330.	0.	1330.	0.	1330.	0.
Equipment	4656.	0.	4656.	0.	4656.	0.	4656.	0.	4656.	0.
Totals	28827.	0.	28827.	0.	28827.	0.	28827.	0.	28827.	0.

Total dollars for all years 144136.

0612800 TILE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	1.0	.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0
Hours										
Labor	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Equipment	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Costs										
Labor	22842.	0.	22842.	0.	22842.	0.	22842.	0.	22842.	0.
Materials	1330.	0.	1330.	0.	1330.	0.	1330.	0.	1330.	0.
Equipment	4656.	0.	4656.	0.	4656.	0.	4656.	0.	4656.	0.
Totals	28827.	0.	28827.	0.	28827.	0.	28827.	0.	28827.	0.

Total dollars for all years 144136.

0612802 REPAIR

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hours										
Labor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Equipment	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Costs										
Labor	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Materials	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Equipment	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
Totals	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

Total dollars for all years 0.

INSTALLATION: Funding Reporting System Demo   RESOURCE SUMMARY REPORT   DATE: 06/08/87   PAGE 10
FACILITY ID: P08901

REPORT NAME: RSMY1038.XDB

0612805   REPLACE

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	1.0	.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0
Hours										
Labor	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Equipment	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00	1454.89	.00
Costs										
Labor	22842.	0.	22842.	0.	22842.	0.	22842.	0.	22842.	0.
Materials	1330.	0.	1330.	0.	1330.	0.	1330.	0.	1330.	0.
Equipment	4656.	0.	4656.	0.	4656.	0.	4656.	0.	4656.	0.
Totals	28827.	0.	28827.	0.	28827.	0.	28827.	0.	28827.	0.

Total dollars for all years 144136.

C-23

ORGANIZATION: Z1 UP-TO-DATE INSTALLATION REPORT
APPROPRIATION NO: 01 Real Property Maintenance Acco
AMS NO: 07 ADMINISTRATION

REPORT NAME: RO210107.XDB

0000000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	135.0	152.0	163.0	156.0	164.0	163.0	180.0	161.0	174.0	163.0
Equiv. Hours										
Labor	103.02	115.73	335.42	118.22	227.93	120.87	183.51	123.38	200.90	128.04
Materials	710.78	229.98	6988.62	255.90	1980.60	302.72	11752.96	788.23	553.49	638.26
Equipment	103.02	115.73	335.42	118.22	227.93	120.87	183.51	123.38	200.90	128.04
Costs										
Labor	1633.	1911.	5490.	1952.	4082.	1991.	3053.	2034.	3297.	2107.
Materials	711.	230.	6989.	256.	1981.	303.	11753.	788.	553.	638.
Equipment	330.	398.	1100.	406.	928.	414.	614.	422.	670.	437.
Totals	2673.	2539.	13579.	2614.	6990.	2707.	15420.	3244.	4520.	3183.

Total dollars for all years: 57468.

0300000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	3.0	4.0	3.0	4.0	1.0	3.0	3.0	4.0	3.0	4.0
Equiv. Hours										
Labor	6.26	6.87	6.26	8.40	106.90	6.26	6.26	6.87	6.26	8.40
Materials	49.09	49.09	49.09	73.28	1658.61	49.09	49.09	49.09	49.09	73.28
Equipment	6.26	6.87	6.26	8.40	106.90	6.26	6.26	6.87	6.26	8.40
Costs										
Labor	102.	112.	102.	137.	2097.	102.	102.	112.	102.	137.
Materials	49.	49.	49.	73.	1659.	49.	49.	49.	49.	73.
Equipment	20.	22.	20.	27.	513.	20.	20.	22.	20.	27.
Totals	172.	183.	172.	237.	4269.	172.	172.	183.	172.	237.

Total dollars for all years: 5968.

0400000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	40.0	54.0	56.0	56.0	55.0	57.0	55.0	54.0	59.0	54.0
Equiv. Hours										
Labor	.97	18.00	17.75	20.11	18.85	19.73	18.85	18.00	77.40	18.00
Materials	5.52	12.41	16.93	22.93	62.41	23.65	62.41	12.41	127.36	12.41
Equipment	.97	18.00	17.75	20.11	18.85	19.73	18.85	18.00	77.40	18.00
Costs										
Labor	16.	354.	349.	389.	368.	382.	368.	354.	1324.	354.
Materials	6.	12.	17.	23.	62.	24.	62.	12.	127.	12.
Equipment	3.	85.	84.	92.	88.	90.	88.	85.	275.	85.
Totals	24.	451.	449.	503.	518.	495.	518.	451.	1726.	451.

Total dollars for all years: 5586.

ORGANIZATION: Z1   UP-TO-DATE INSTALLATION REPORT
APPROPRIATION NO: 01   Real Property Maintenance Acco
AMS NO: 07   ADMINISTRATION

REPORT NAME: RO210107.XDB

0500000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	2.0	1.0	1.0	3.0	1.0	2.0	6.0	2.0	2.0	1.0
Equiv. Hours										
Labor	.53	.26	.26	1.52	.26	.53	1.84	1.30	1.30	.26
Materials	8.73	4.37	4.37	10.72	4.37	8.73	92.89	89.37	89.37	4.37
Equipment	.53	.26	.26	1.52	.26	.53	1.84	1.30	1.30	.26
Costs										
Labor	9.	4.	4.	25.	4.	9.	30.	21.	21.	4.
Materials	9.	4.	4.	11.	4.	9.	93.	89.	89.	4.
Equipment	2.	1.	1.	5.	1.	2.	6.	4.	4.	1.
Totals	19.	10.	10.	41.	10.	19.	129.	115.	115.	10.

Total dollars for all years   476.

0600000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	3.0	3.0	4.0	3.0	3.0	3.0	6.0	3.0	5.0	3.0
Equiv. Hours										
Labor	28.24	28.24	236.74	28.24	28.24	28.24	44.08	28.24	45.85	28.24
Materials	113.82	113.82	6529.02	113.82	113.82	113.82	265.15	113.82	167.89	113.82
Equipment	28.24	28.24	236.74	28.24	28.24	28.24	44.08	28.24	45.85	28.24
Costs										
Labor	467.	467.	3876.	467.	467.	467.	726.	467.	755.	467.
Materials	114.	114.	6529.	114.	114.	114.	265.	114.	168.	114.
Equipment	90.	90.	758.	90.	90.	90.	141.	90.	147.	90.
Totals	671.	671.	11162.	671.	671.	671.	1132.	671.	1069.	671.

Total dollars for all years   18061.

0800000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	12.0	10.0	14.0	10.0	21.0	17.0	23.0	12.0	19.0	14.0
Equiv. Hours										
Labor	14.36	8.73	11.38	7.17	17.88	12.27	17.22	9.75	13.12	9.36
Materials	532.72	4.39	6.38	3.34	90.36	61.53	760.44	48.19	8.66	5.02
Equipment	14.36	8.73	11.38	7.17	17.88	12.27	17.22	9.75	13.12	9.36
Costs										
Labor	217.	132.	172.	108.	270.	185.	260.	147.	198.	141.
Materials	533.	4.	6.	3.	90.	62.	760.	48.	9.	5.
Equipment	46.	28.	36.	23.	57.	39.	55.	31.	42.	30.
Totals	796.	164.	215.	135.	418.	286.	1076.	227.	249.	176.

Total dollars for all years   3741.

ORGANIZATION: Z1   UP-TO-DATE INSTALLATION REPORT
APPROPRIATION NO: 01   Real Property Maintenance Acco
AMS NO: 07   ADMINISTRATION

REPORT NAME: RO210107.XDB

0900000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	57.0	56.0	58.0	56.0	57.0	56.0	57.0	56.0	57.0	57.0
Equiv. Hours										
Labor	45.04	43.47	51.77	43.47	45.04	43.47	45.04	46.42	45.04	50.19
Materials	.00	.00	301.03	.00	.00	.00	.00	295.00	.00	301.03
Equipment	45.04	43.47	51.77	43.47	45.04	43.47	45.04	46.42	45.04	50.19
Costs										
Labor	690.	666.	793.	666.	690.	666.	690.	711.	690.	769.
Materials	0.	0.	301.	0.	0.	0.	0.	295.	0.	301.
Equipment	144.	139.	166.	139.	144.	139.	144.	149.	144.	161.
Totals	834.	805.	1260.	805.	834.	805.	834.	1155.	834.	1231.

Total dollars for all years 9397.

1100000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	18.0	24.0	26.0	24.0	26.0	25.0	29.0	29.0	29.0	29.0
Equiv. Hours										
Labor	7.61	10.15	10.95	9.30	10.75	10.37	49.64	12.48	11.92	13.02
Materials	.90	45.90	43.80	31.80	51.03	45.90	10522.23	142.35	111.13	127.58
Equipment	7.61	10.15	10.95	9.30	10.75	10.37	49.64	12.48	11.92	13.02
Costs										
Labor	132.	176.	189.	160.	185.	180.	866.	216.	206.	225.
Materials	1.	46.	44.	32.	51.	46.	10522.	142.	111.	128.
Equipment	24.	32.	35.	30.	34.	33.	159.	40.	38.	42.
Totals	157.	254.	268.	222.	271.	259.	11548.	398.	355.	394.

Total dollars for all years 14125.

1200000

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Occurrences	.0	.0	1.0	.0	.0	.0	1.0	1.0	.0	1.0
Equiv. Hours										
Labor	.00	.00	.31	.00	.00	.00	.57	.31	.00	.57
Materials	.00	.00	38.00	.00	.00	.00	.75	38.00	.00	.75
Equipment	.00	.00	.31	.00	.00	.00	.57	.31	.00	.57
Costs										
Labor	0.	0.	5.	0.	0.	0.	10.	5.	0.	10.
Materials	0.	0.	38.	0.	0.	0.	1.	38.	0.	1.
Equipment	0.	0.	1.	0.	0.	0.	2.	1.	0.	2.
Totals	0.	0.	44.	0.	0.	0.	13.	44.	0.	13.

Total dollars for all years 114.

INSTALLATION: Funding Reporting System Demo   ** FACILITY TOTAL RESOURCES **   Costs in Dollars

FacilityID	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
01	551308.	553301.	149427.	141475.	332306.	171451.	516093.	116124.	225706.	165442.
02	629514.	631790.	170625.	161542.	379446.	195772.	589304.	132596.	257723.	188911.
03	161038.	161621.	43648.	41325.	97068.	50081.	150752.	33920.	65929.	48326.
04	280008.	281020.	75894.	71854.	168778.	87080.	262122.	58979.	114635.	84028.
05	117119.	117542.	31744.	30054.	70595.	36423.	109638.	24669.	47949.	35146.
06	177643.	178286.	48149.	45586.	107076.	55245.	166297.	37418.	72727.	53309.
07	87839.	88157.	23808.	22541.	52946.	27317.	82229.	18502.	35961.	26360.
08	104556.	53945.	162383.	36537.	71016.	52054.	121635.	87542.	112398.	125708.
09	43225.	22302.	67132.	15105.	29359.	21520.	50286.	36192.	46467.	51970.
10	36339.	34124.	52186.	17081.	51594.	16512.	132912.	15315.	46220.	21003.
11	51406.	48273.	73823.	24163.	72986.	23358.	188020.	21665.	65383.	29711.
14	71968.	67582.	103353.	33828.	102180.	32701.	263227.	30330.	91537.	41595.
16	25489.	131151.	39586.	8907.	17312.	12690.	29652.	21341.	27400.	30645.
17	148199.	76462.	230162.	51788.	100658.	73782.	172406.	124083.	159313.	178179.
19	253911.	131004.	394341.	88729.	172459.	126412.	295386.	212594.	272953.	305278.
21	57623.	29730.	89492.	20136.	39138.	28688.	67035.	48246.	61944.	69280.
26	17637.	44080.	17143.	17327.	20007.	18741.	19816.	17813.	18973.	15918.
27	Not in table									
28	Not in table									
29	Not in table									
30	Not in table									
31	Not in table									
32	82592.	121033.	100420.	84237.	60213.	68050.	80203.	76698.	107535.	134553.
33	4140.	5182.	19415.	6101.	4239.	14216.	19645.	4377.	5166.	7064.
34	2944.	6319.	3347.	11610.	22012.	8470.	8375.	9381.	5041.	7488.
35	6179.	5274.	26084.	4981.	25478.	5278.	6048.	5733.	10076.	10183.
D00001	Not in table									
P08001A	Not in table									
P08002A	Not in table									
P08003A	Not in table									
P08004A	Not in table									
P08005A	Not in table									
P08901	7270.	7921.	4850.	4093.	7270.	6732.	7594.	9456.	8804.	9110.
P12345ABC	2673.	2539.	13579.	2614.	6990.	2707.	15420.	3244.	4520.	3183.

APPENDIX D:
ARMY-WIDE COMPONENT/TASK LISTING

Caces No : Unit of Measure : Description

```
0300000 ROOFING
0310000 ROOFING
0311000 ROOF COVERING
0311100 2 BUILT-UP ROOFING
0311101 2 DEBRIS REMOVAL BY HAND & VISUAL INSPECT.
0311102 2 MOISTURE INSPECTION OF ROOF BUILTUP
0311103 2 MINOR MEMBRANE REPAIRS - BUILT UP ROOF
0311104 2 MINOR MEMBRANE REPLACEMENT - BUILTUP RF.
0311105 2 FLASHING REPAIRS - BUILTUP ROOF
0311106 2 PLACE NEW MEMBRANE OVER EXSTG.BUILTUP RF
0311107 2 MEMBRANE REMOVAL & REPLACEMT.BUILTUP RF.
0311200 2 SINGLE PLY ROOFING
0311210 2 MOD. BITUMINOUS / THERMOPLASTIC
0311211 2 DEBRIS REMOVAL-HAND & VIS.INSPCT-M.B./T.
0311212 2 MOISTURE INSPECTION - M.B. /THERMOPL.
0311213 2 MINOR MEMBRANE REPAIRS - M.B./T.
0311214 2 REPAIR MOD. BITUMINOUS / THERMOPLASTIC
0311215 2 FLASHING REPAIRS MOD. BIT./ THERMOPL.
0311217 2 MEMBRANE REPLACEMENT OR REPAIR M.B./T.
0311220 2 THERMOSETTING
0311221 2 DEBRIS REMOVAL & VISUAL INSP.- THERMOSET
0311222 2 MOISTURE INSPECTION - THERMOSETTING
0311223 2 MINOR MEMBRANE REPAIRS - THERMOSETG.
0311224 2 MINOR REPLACEMENT - THERMOSETTING
0311225 2 FLASHING REPAIRS - THERMOSETTING
0311227 2 MEMBRANE REPLACEMENT - THERMOSETTING
0311300 2 STEEP ROOFING
0311310 2 SLATE
0311312 2 NON-DESTRUCTIVE MOISTURE INSPECT.-SLATE
0311313 2 REPAIRS - SLATE ROOF
0311314 2 MINOR TILE REPLACEMENT - SLATE ROOF
0311315 2 FLASHING REPAIRS - SLATE ROOF
0311317 2 TOTAL ROOF REPLACEMENT - SLATE ROOF
0311320 2 CEMENT ASBESTOS
0311321 2 DEBRIS REMOV.BY HAND+VIS.INSP.-CEMT ASB.
0311322 2 NON-DESTRUCT.MOISTURE INSPECT.-CEMT ASB.
0311323 2 REPAIR - CEMENT ASBESTOS ROOF
0311324 2 MINOR REPLACEMENT - CEMENT ASBESTOS
0311325 2 FLASHING REPAIR - CEMENT ASBESTOS
0311327 2 TOTAL ROOF REPLACEMENT - CEMENT ASBESTOS
0311330 2 TILE
0311331 2 DEBRIS REMOV.BY HAND & VISUAL INSP.-TILE
0311332 2 NON-DESTRUCTIVE MOISTURE INSPECT.- TILE
0311333 2 REPAIR - TILE ROOFING
0311334 2 MINOR REPLACEMENT - TILE ROOF
0311335 2 FLASHING REPAIR - TILE ROOF
0311337 2 TOTAL ROOF REPLACEMENT - TILE ROOF
0311340 2 ROLL ROOFING
0311341 2 DEBRIS REMOV.BY HAND & VIS.INSP.-ROLL RF
0311342 2 NON-DESTSRUCT.MOISTURE INSPECT-ROLL RFG.
0311343 2 MINOR ROOFING REPAIR - ROLL ROOFING
0311344 2 MINOR REPLACEMENT - ROLL ROOFING
0311345 2 FLASHING REPAIRS - ROLL ROOFING
0311347 2 TOTAL ROOF REPLACEMENT - ROLL ROOFING
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Caces No : Unit of Measure : Description

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0311350 2 SHINGLES
0311351 2 DEBRIS REMOV.BY HAND & VIS.INSP.-SHINGLE
0311352 2 NON-DESTRUCTIVE MOISTURE INSP.- SHINGLE
0311353 2 MINOR REPAIRS - SHINGLED ROOF
0311354 2 MINOR REPLACEMENT - SHINGLED ROOF
0311355 2 FLASHING REPAIRS - SHINGLED ROOF
0311356 2 REPLACE NEW OVER EXISTING-SHINGLED RFG.
0311357 2 REMOVAL AND REPLACEMENT OF SHINGLED ROOF
0311360 2 METAL
0311361 2 DEBRIS REMOV.BY HAND+VIS.INSP.-METAL RFG
0311362 2 NON-DESTRUCT.MOISTURE INSPECT.-METAL RFG
0311363 2 MINOR REPAIRS - METAL ROOF
0311364 2 MINOR REPLACEMENT - METAL ROOF
0311365 2 FLASHING REPLACEMENT - METAL ROOF
0311367 2 TOTAL METAL PANEL REPLACEMENT-METAL ROOF

0400000 EXTERIOR CLOSURE
0410000 EXTERIOR WALLS
0411000 EXTERIOR WALL CONSTRUCTION
0412000 INTERIOR SKIN CONSTRUCTION
0413000 SCREEN WALLS
0414000 SOFFITS AND FACIA
0415000 EXTERIOR FINISHES
0415100 2 ADOBE EXTERIOR FINISH
0415110 2 first floor
0415112 2 REPAIR ADOBE EXTERIOR WALL - 1ST FLOOR
0415113 2 REFINISH REPAIRED ADOBE EXT.WALL 1ST FL.
0415114 2 REFINISH ADOBE EXTERIOR WALL - 1ST FLOOR
0415115 2 REPLACE ADOBE EXTERIOR WALL - 1ST FLOOR
0415116 2 REFINISH REPLACED ADOBE EXT.WALL 1ST FL.
0415120 2 second floor
0415122 2 REPAIR ADOBE EXTERIOR WALL - 2ND FLOOR
0415123 2 REFINISH REPAIRED ADOBE EXT.WALL 2ND FL.
0415124 2 REFINISH ADOBE EXTERIOR WALL 2ND FLOOR
0415125 2 REPLACE ADOBE EXTERIOR WALL - 2ND FLOOR
0415126 2 REFINISH REPLACED ADOBE EXT.WALL 2ND FL.
0415130 2 third + floors
0415132 2 REPAIR ADOBE EXTERIOR WALL - 3RD+ FLOORS
0415133 2 REFINISH REPAIRED ADOBE EXT.WALL 3RD+FL.
0415134 2 REFINISH ADOBE EXT. WALL 3RD + FLOORS
0415135 2 REPLACE ADOBE EXTERIOR WALL - 3RD+FLOORS
0415136 2 REFINISH REPLACED ADOBE EXT.WALL 3RD+FL.
0415200 2 CLAY BRICK EXTERIOR FINISH
0415210 2 first floor
0415212 2 REPAIR CLAY BRICK EXTERIOR WALL -1ST FL.
0415215 2 REPLACE CLAY BRICK EXTERIOR WALL-1ST FL.
0415220 2 second floor
0415222 2 REPAIR CLAY BRICK EXTERIOR WALL-2ND FL.
0415225 2 REPLACE CLAY BRICK EXTERIOR WALL-2ND FL.
0415230 2 third + floors
0415232 2 REPAIR CLAY BRICK EXTERIOR WALL-3RD+ FL.
0415235 2 REPLACE CLAY BRICK EXTERIOR WALL-3RD+FL.
0415300 2 CLAY BRICK (PAINTED) EXT. FINISH
0415310 2 first floor
0415312 2 REPAIR PNTD CLAY BRICK EXT.WALL 1ST FL.
```

Caces No : Unit of Measure : Description

```
0415313  2  REFIN.REPAIR.PNTD CLAY BRICK EXT.1ST FL.
0415314  2  REFIN.PNTD CLAY BRICK EXT.WALL 1ST FL.
0415315  2  REPLACE PNTD.CLAY BRICK EXT.WALL 1ST FL.
0415316  2  REFIN.REPLCD PNTD.CLAY BRICK EXT.1ST FLS.
0415320  2  second floor
0415322  2  REPAIR PNTD CLAY BRICK EXT.WALL 2ND FL.
0415323  2  REFIN.REPAIR.PNTD.CLAY BRICK EXT.2ND FL.
0415324  2  REFIN. PNTD. CLAY BRICK EXT.WALL 2ND FL.
0415325  2  REPLACE PNTD.CLAY BRICK EXT.WALL 2ND FL.
0415326  2  REFIN.REPLCD.PNTD.CLAY BRICK.EXT.2ND FL.
0415330  2  third + floors
0415332  2  REPAIR PNTD.CLAY BRICK EXT.WALL 3RD+FLS.
0415333  2  REFIN.REPAIR PNTD.CLAY BRICK EXT.3RD+FL.
0415334  2  REFIN. PNTD.CLAY BRICK EXT.WALL 3RD+FLS.
0415335  2  REPLACE PNTD.CLAY BRICK EXT.WALL 3RD+FL.
0415336  2  REFIN.REPLCD.PNTD.CLAY BRICK EXT.3RD+FL.
0415400  2  CONCRETE BRICK EXTERIOR FINISH
0415410  2  first floor
0415412  2  REPAIR CONCRETE BRICK EXT. WALL 1ST FL.
0415415  2  REPLACE CONCRETE BRICK EXT.WALL 1ST FL.
0415420  2  second floor
0415422  2  REPAIR CONCRETE BRICK EXT.WALL 2ND FL.
0415425  2  REPLACE CONCRETE BRICK EXT.WALL 2ND FL.
0415430  2  third + floors
0415432  2  REPAIR CONCRETE BRICK EXT.WALL 3RD+ FLS.
0415435  2  REPLACE CONCRETE BRICK EXT.WALL 3RD+FLS.
0415500  2  CONCRETE BRICK (PAINTED) EXT. FINISH
0415510  2  first floor
0415512  2  REPR.PNTD.CONCRETE BRICK EXT.WALL 1ST FL
0415513  2  RFN.RPRD.PNTD.CONC.BRICK EXT.WALL 1ST FL
0415514  2  REFIN.PNT.CONCRETE BRICK EXT.WALL 1ST FL.
0415515  2  REPLC.PNTD.CONCR. BLOCK EXT.WALL 1ST FL.
0415516  2  RFN.RPLC.PNTD.CONC.BRICK EXT.WALL 1ST FL
0415520  2  second floor
0415522  2  REPR.PNTD.CONCRETE BRICK EXT.WALL 2ND FL
0415523  2  RFN.RPRD.PNTD.CONC.BRICK EXT.WALL 2ND FL.
0415524  2  REFIN.PNTD.CONCR. BRICK EXT.WALL 2ND FL.
0415525  2  REPLC.PNTD.CONCR. BRICK EXT.WALL 2ND FL.
0415526  2  RFN.RPLC.PNTD.CONC.BRICK EXT.WALL 2ND FL
0415530  2  third + floors
0415532  2  REPR.PNTD.CONCRETE BRICK EXT.WALL 3RD+FL
0415533  2  RFN.RPRD.PNTD.CONC.BRICK EXT.WALL 3RD+FL
0415534  2  REFIN.PNTD.CONC.BRICK EXT.WALL 3RD+FLS.
0415535  2  RPLC.PNTD.CONCR.BRICK EXT.WALL 3RD+FL
0415536  2  RFN.RPLC.PNTD.CONC.BRICK EXT.WALL 3RD+FL
0415600  2  STRUCTURAL CLAY TILE EXTERIOR FINISH
0415610  2  first floor
0415612  2  REPAIR STRUCT.CLAY TILE EXT.WALL 1ST FL.
0415615  2  REPLACE STRUC.CLAY TILE EXT.WALL 1ST FL.
0415620  2  second floor
0415622  2  REPAIR STRUCT.CLAY TILE EXT.WALL 2ND FL.
0415625  2  REPLACE STRUC.CLAY TILE EXT.WALL 2ND FL.
0415630  2  third + floors
0415632  2  REPAIR STRUC.CLAY TILE EXT.WALL 3RD+FLS.
0415635  2  REPLACE STRUC.CLAY TILE EXT.WALL 3RD+FL.
0415700  2  STRUCTURAL CLAY TILE (WP/P) EXT. FIN.
0415710  2  first floor
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Caces No : Unit of Measure : Description

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0415712  2  REPR.PNTD.STRUCT.CLAY TILE EXT. 1ST FL.
0415713  2  RFN.RPR.PNT.STRUCT.CLAY TILE EXT.1ST FL.
0415714  2  REFIN. PNTD.STRUCT.CLAY TILE EXT.1ST FL.
0415715  2  REPLC.PNTD.STRUCT.CLAY TILE EXT. 1ST FL.
0415716  2  REFIN.RPLC.PNT.STRUC.CLAY TILE EXT.1ST FL
0415720  2  second floor
0415722  2  REPR.PNTD.STRUCT.CLAY TILE EXT.2ND FL.
0415723  2  REFN.RPR.PNT.STRUCT.CLAY TILE EXT.2ND FL.
0415724  2  REFIN.PNTD.STRUCT.CLAY TILE EXT.2ND FL.
0415725  2  REPLC.PNTD.STRUCT.CLAY TILE EXT.2ND FL.
0415726  2  REFN.RPLC.PNT.STRUC.CLAY TILE EXT.2ND FL
0415730  2  third + floors
0415732  2  REPR.PNTD.STRUC.CLAY TILE EXT.3RD+FLS.
0415733  2  REFN.RPR.PNT.STRUC.CLAY TILE EXT.3RD+FL.
0415734  2  REFIN.PNTD.STRUCT.CLAY TILE EXT.3RD+FLS.
0415735  2  REPLC.PNTD.STRUCT.CLAY TILE EXT.3RD+FLS.
0415736  2  REFN.RPLC.PNT.STRUC.CLAY TILE EXT.3RD+FL
0415800  2  CONCRETE BLOCK EXTERIOR FINISH
0415810  2  first floor
0415812  2  REPAIR CONCRETE BLOCK EXT.WALL 1ST FL.
0415815  2  REPLACE CONCRETE BLOCK EXT.WALL 1ST FL.
0415820  2  second floor
0415822  2  REPAIR CONCRETE BLOCK EXT.WALL 2ND FL.
0415825  2  REPLACE CONCRETE BLOCK EXT.WALL 2ND FL.
0415830  2  third + floors
0415832  2  REPAIR CONCRETE BLOCK EXT.WALL 3RD+ FL.
0415835  2  REPLACE CONCRETE BLOCK EXT.WALL 3RD FL.
0415900  2  CONCRETE BLOCK (WP/P) EXT. FINISH
0415910  2  first floor
0415912  2  REPR.PNTD.CONCR. BLOCK EXT.WALL 1ST FL.
0415913  2  RFN.RPR.PNTD.CONCR.BLOCK EXT.WALL 1ST FL.
0415914  2  REFIN.PNTD.CONCR.BLOCK EXT.WALL 1ST FL.
0415915  2  REPLC.PNTD.CONCR.BLOCK EXT.WALL 1ST FL.
0415916  2  RFN.RPLC.PNT.CONC.BLOCK EXT.WALL 1ST FL.
0415920  2  second floor
0415922  2  REPR.PNTD.CONCRETE BLOCK EXT.WALL 2ND FL
0415923  2  RFN.RPR.PNTD.CONC.BLOCK EXT.WALL 2ND FL.
0415924  2  REFIN.PNTD.CONCR. BLOCK EXT.WALL 2ND FL.
0415925  2  REPLC.PNTD.CONCR. BLOCK EXT.WALL 2ND FL.
0415926  2  RFN.RPLC.PNT.CONC.BLOCK EXT.WALL 2ND FL.
0415930  2  third + floors
0415932  2  REPR.PNTD.CONCR.BLOCK EXT.WALL 3RD+FL
0415933  2  RFN.RPR.PNTD.CONC.BLOCK EXT.WALL 3RD+FL
0415934  2  REFIN.PNTD.CONCR. BLOCK EXT.WALL 3RD+FL.
0415935  2  REPLC.PNTD.CONC.BLOCK EXT.WALL 3RD+FLS.
0415936  2  RFN.RPLC.PNT.CONC.BLOCK EXT.WALL 3RD+FL.
0415A00  2  CONCRETE EXTERIOR FINISH
0415A10  2  first floor
0415A12  2  REPAIR CONCRETE EXT. WALL 1ST FLOOR
0415A13  2  REFIN.REPAIRED CONCRETE EXT.WALL 1ST FL.
0415A14  2  REFINISH CONCRETE EXT.WALL 1ST FLOOR
0415A15  2  REPLACE CONCRETE EXT.WALL 1ST FLOOR
0415A16  2  REFIN.REPLACED CONCRETE EXT.WALL 1ST FL.
0415A20  2  second floor
0415A22  2  REPAIR CONCRETE EXT.WALL 2ND FLOOR
0415A23  2  REFIN.REPAIRED CONCRETE EXT.WALL 2ND FL.
0415A24  2  REFINISH CONCRETE EXT.WALL 2ND FLOOR
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Caces No : Unit of Measure : Description

Caces No	UM	Description
0415A25	2	REPLACE CONCRETE EXT. WALL - 2ND FLOOR
0415A26	2	REFIN.REPLACED CONCRETE EXT.WALL 2ND FL.
0415A30	2	third + floors
0415A32	2	REPAIR CONCRETE EXT. WALL 3RD+ FLOOR
0415A33	2	REFIN.REPAIRED CONCRETE EXT.WALL 3RD+FL.
0415A34	2	REFINISH CONCRETE EXT.WALL 3RD+ FLRS.
0415A35	2	REPLACE CONCRETE EXT. WALL 3RD+ FLOORS
0415A36	2	REFIN.REPLACED CONCRETE EXT.WALL 3RD+FL.
0415B00	2	STONE EXTERIOR FINISH
0415B10		first floor
0415B12	2	REPAIR STONE EXTERIOR WALL - 1ST FLOOR
0415B15	2	REPLACE STONE EXTERIOR WALL - 1ST FLOOR
0415B20	2	second floor
0415B22	2	REPAIR STONE EXTERIOR WALL - 2ND FLOOR
0415B25	2	REPLACE STONE EXTERIOR WALL - 2ND FLOOR
0415B30	2	third + floors
0415B32	2	REPAIR STONE EXTERIOR WALL - 3RD+ FLOORS
0415B35	2	REPLACE STONE EXTERIOR WALL -3RD+ FLOORS
0415C00	2	STUCCO EXTERIOR FINISH
0415C10		first floor
0415C12	2	REPAIR STUCCO EXTERIOR WALL - 1ST FLOOR
0415C13	2	REFIN.REPAIRED STUCCO EXT.WALL 1ST FL.
0415C14	2	REFINISH STUCCO EXT. WALL 1ST FLOOR
0415C15	2	REPLACE STUCCO EXTERIOR WALL 1ST FLOOR
0415C16	2	REFIN.REPLACED STUCCO EXT.WALL 1ST FLOOR
0415C20	2	second floor
0415C22	2	REPAIR STUCCO EXTERIOR WALL - 2ND FLOOR
0415C23	2	REFIN.REPAIRED STUCCO EXT.WALL 2ND FLOOR
0415C24	2	REFINISH STUCCO EXT. WALL 2ND FLOOR
0415C25	2	REPLACE STUCCO EXTERIOR WALL - 2ND FLOOR
0415C26	2	REFIN.REPLACED STUCCO EXT.WALL 2ND FLOOR
0415C30	2	third + floors
0415C32	2	REPAIR STUCCO EXTERIOR WALL -3RD+ FLOORS
0415C33	2	REFIN.REPAIRED STUCCO EXT.WALL 3RD+ FLS.
0415C34	2	REFINISH STUCCO EXT.WALL 3RD + FLOORS
0415C35	2	REPLACE STUCCO EXTERIOR WALL 3RD+ FLOORS
0415C36	2	REFIN.REPLACED STUCCO EXT.WALL 3RD+ FLS.
0415D00	2	TERRACOTTA EXTERIOR FINISH
0415D10		first floor
0415D12	2	REPAIR TERRACOTTA EXTERIOR WALL 1ST FLR.
0415D15	2	REPLACE TERRACOTTA EXTERIOR WALL 1ST FL.
0415D20	2	second floor
0415D22	2	REPAIR TERRACOTTA EXTERIOR WALL 2ND FLR.
0415D25	2	REPLACE TERRACOTTA EXTERIOR WALL 2ND FL.
0415D30	2	third + floors
0415D32	2	REPAIR TERRACOTTA EXTERIOR WALL 3RD+ FL.
0415D35	2	REPLACE TERRACOTTA EXTERIOR WALL 3RD+FL.
0415E00	2	WOOD, FINISHED (SINGLE COAT) EXT. FIN.
0415E10		first floor
0415E12	2	REPR.WOOD FIN.(S.CT) EXT. 1ST
0415E13	2	REFIN.RPR.WOOD FIN.(S.CT)1ST F
0415E14	2	REFIN.WOOD FIN. (S.CT) 1ST FL.
0415E15	2	RPLC.WOOD FIN.(S.CT)EXT.1ST FL
0415E16	2	REFIN.RPLC.WOOD FIN.(S.CT) 1ST
0415E20	2	second floor
0415E22	2	REPR.WOOD FIN.(S.CT)EXT.2ND FL
0415E23	2	REFIN.RPR.WOOD FIN.(S.CT)2ND F

Caces No : Unit of Measure : Description

Caces No	UM	Description
0415E24	2	REFIN.WOOD FINISH(S.CT)2ND FL
0415E25	2	RPLC.WOOD FIN.(S.CT)EXT.2ND FL
0415E26	2	REFIN.RPLC.WOOD FIN.(S.CT)2ND
0415E30	2	third + floors
0415E32	2	REPR.WOOD FIN.(S.CT)EXT.3RD FL
0415E33	2	REFN.RPR.WOOD FIN.(S.CT)3RD FL
0415E34	2	REFIN.WOOD FIN.(S.CT)EXT.3RD FL
0415E35	2	RPLC.WOOD FIN.(S.CT)EXT.3RD FL
0415E36	2	REFN.RPLC.WOOD FIN.(S.CT)3RD F
0415F00	2	WOOD, FINISHED (MULTI-COAT) EXT. FIN.
0415F10		first floor
0415F12	2	REPR.WOOD FIN.(M.CT)EXT.1ST FL
0415F13	2	REFIN.RPR.WOOD FIN.(M.CT)1ST F
0415F14	2	REFN.WOOD FIN.(M.CT)EXT.1ST FL
0415F15	2	RPLC.WOOD FIN.(M.CT)EXT.1ST FL
0415F16	2	REFIN.RPLC.WOOD FIN.(M.CT)1ST F
0415F20	2	second floor
0415F22	2	REPR.WOOD FIN.(M.CT)EXT.2ND FL
0415F23	2	REFN.RPR.WOOD FIN.(M.CT)2ND FL
0415F24	2	REFN.WOOD FIN.(M.CT)EXT.2ND FL
0415F25	2	RPLC.WOOD FIN.(M.CT)EXT.2ND FL
0415F26	2	REFIN.RPLC.WOOD FIN.(M.CT)2ND F
0415F30	2	third + floors
0415F32	2	REPR.WOOD FIN.(M.CT)EXT.3RD FL
0415F33	2	REFN.RPR.WOOD FIN.(M.CT)3RD FL
0415F34	2	REFN.WOOD FIN.(M.CT)EXT.3RD FL
0415F35	2	RPLC.WOOD FIN.(M.CT)EXT.3RD FL
0415F36	2	REFN.RPR.WOOD FIN.(M.CT)3RD FL
0415G00	2	WOOD SHAKES (UNFINISHED) EXT. FINISH
0415G10		first floor
0415G12	2	REPR.WOOD SHAKES EXT.1ST FL
0415G15	2	RPLC.WOOD SHAKES EXT. 1ST FL.
0415G20	2	second floor
0415G22	2	REPR.WOOD SHAKES EXT. 2ND FL.
0415G25	2	REPLC.WOOD SHAKES EXT. 2ND FL.
0415G30	2	third + floors
0415G32	2	REPR.WOOD SHAKES EXT. 3RD+ FL.
0415G35	2	REPLC.WOOD SHAKES EXT. 3RD+ FL
0415H00	2	WOOD SHAKES (FINISHED) EXT. FINISH
0415H10		first floor
0415H12	2	REPR.WOOD SHAKES(FIN)EXT.1ST F
0415H13	2	REFN.REPR.WOOD SHKE(FIN)EXT.1ST FL
0415H14	2	REFN.WOOD SHAKE(FIN)EXT.1ST FL
0415H15	2	RPLC.WOOD SHAKE(FIN)EXT.1ST FL
0415H16	2	REFIN.RPLC.WOOD SHKE(FIN)1ST FL
0415H20	2	second floor
0415H22	2	REPR.WOOD SHAKE(FIN)EXT.2ND FL
0415H23	2	REFN.RPR.WOOD SHAKE(FIN)EXT.2ND FL
0415H24	2	REFN.WOOD SHAKE(FIN)EXT.2ND FL
0415H25	2	RPLC.WOOD SHAKE(FIN)EXT.2ND FL
0415H26	2	REFIN.RPLC.WOOD SHKE(FIN)EXT.2ND FL
0415H30	2	third + floors
0415H32	2	REPR.WOOD SHAKE(FIN)EXT.3RD FL
0415H33	2	REFN.RPR.WOOD SHAKE(FIN)EXT.3RD FL
0415H34	2	REFN.WOOD SHAKE(FIN)EXT.3RD FL
0415H35	2	RPLC.WOOD SHAKE(FIN)EXT.3RD FL
0415H36	2	REFIN.RPLC.WOOD SHKE(FIN)3RD FL

Caces No : Unit of Measure : Description

Caces No	U/M	Description
0415I00	2	ALUMINUM SIDING
0415I10	2	first floor
0415I12	2	REPAIR ALUM.SIDING EXT.1ST FL.
0415I15	2	REPLACE ALUM.SIDING EXT.1ST FL
0415I20	2	second floor
0415I22	2	REPAIR ALUM.SIDING EXT.2ND FL.
0415I25	2	REPLACE ALUM.SIDING EXT.2ND FL
0415I30	2	third + floors
0415I32	2	REPAIR ALUM.SIDING EXT.3RD FL.
0415I35	2	REPLACE ALUM.SIDING EXT.3RD FL
0415J00	2	ALUMINUM SIDING (ANODIZED) FINISH
0415J10	2	first floor
0415J12	2	RPR.ALUM.SIDG.(ANDZ)EXT.1ST FL
0415J15	2	RPLACE ALUM.SIDG.(ANDZ)1ST FL
0415J20	2	second floor
0415J22	2	RPR.ALUM.SIDG.(ANDZ)EXT.2ND FL
0415J25	2	RPLC.ALUM.SIDING(ANDZ) 2ND FL
0415J30	2	third + floors
0415J32	2	REPR.ALUM.SIDG(ANDZ)EXT.3RD FL
0415J35	2	RPLC.ALUM.SIDG(ANDZ)EXT.3RD FL
0415K00	2	STEEL (SELF-COATING) EXTERIOR FINISH
0415K10	2	first floor
0415K12	2	REPAR.STEEL(SLF-CTG)EXT.1ST FL
0415K15	2	REPLC.STEEL(SLF-CTG)EXT.1ST FL
0415K20	2	second floor
0415K22	2	REPAR.STEEL(SLF-CTG)EXT.2ND FL
0415K25	2	REPLC.STEEL(SLF-CTG)EXT.2ND FL
0415K30	2	third + floors
0415K32	2	REPAR.STEEL(SLF-CTG)EXT.3RD FL
0415K35	2	REPLC.STEEL(SLF-CTG)EXT.3RD FL
0415L00	2	STEEL (PAINTED) EXTERIOR FINISH
0415L10	2	first floor
0415L12	2	REPAIR STEEL(PNTED)EXT. 1ST FL
0415L13	2	REFN.RPR.STEEL(PNTED)EXT.1ST FL
0415L14	2	REFIN.STEEL(PNTED)EXT. 1ST FL
0415L15	2	REPLC.STEEL(PNTED)EXT. 1ST FL
0415L16	2	RFN.RPLC.STEEL(PNTD)EXT.1ST FL
0415L20	2	second floor
0415L22	2	REPAIR STEEL(PNTED)EXT.2ND FL
0415L23	2	REFN.RPR.STEEL(PNTED)EXT.2ND FL
0415L24	2	REFIN.STEEL(PNTED)EXT.2ND FL
0415L25	2	REPLACE STEEL(PNTED)EXT.2ND FL
0415L26	2	RFN.RPLC.STEEL(PNTD)EXT.2ND FL
0415L30	2	third + floors
0415L32	2	REPAIR STEEL(PNTED)EXT. 3RD FL
0415L33	2	REFN.RPR.STEEL(PNTED)EXT.3RD FL
0415L34	2	REFIN.STEEL(PNTED)EXT. 3RD FL
0415L35	2	REPLACE STEEL(PNTED)EXT.3RD FL
0415L36	2	RFN.RPLC.STEEL(PNTD)EXT.3RD+FL
0415M00	2	GLASS BLOCK EXTERIOR FINISH
0415M10	2	first floor
0415M12	2	REPAIR GLASS BLOCK EXT.1ST FL
0415M15	2	REPLACE GLASS BLOCK EXT.1ST FL
0415M20	2	second floor
0415M22	2	REPAIR GLASS BLOCK EXT. 2ND FL
0415M25	2	REPLACE GLASS BLOCK EXT.2ND FL
0415M30	2	third + floors

Caces No : Unit of Measure : Description

Caces No	U/M	Description
0415M32	2	REPAIR GLASS BLOCK EXT. 3RD FL
0415M35	2	REPLACE GLASS BLOCK EXT.3RD FL
0415N00	2	PLATE GLASS EXTERIOR FINISH
0415N10	2	first floor
0415N12	2	REPAIR PLATE GLASS EXT.1ST FL
0415N15	2	REPLACE PLATE GLASS EXT.1ST FL
0415N20	2	second floor
0415N22	2	REPAIR PLATE GLASS EXT. 2ND FL
0415N25	2	REPLACE PLATE GLASS EXT.2ND FL
0415N30	2	third + floors
0415N32	2	REPAIR PLATE GLASS EXT.3RD+ FL
0415N35	2	REPLACE PLATE GLASS EXT.3RD+FL
0415O00	2	FORMICA, MYLAR, POLYESTER, VINYL
0415O10	2	first floor
0415O12	2	REPR.FORMICA-VINYL EXT.1ST FL.
0415O15	2	REPLC.FORMICA-VINYL EXT.1ST FL
0415O20	2	second floor
0415O22	2	REPR.FORMICA-VINYL EXT.2ND FL
0415O25	2	REPLC.FORMICA-VINYL EXT.2ND FL
0415O30	2	third + floors
0415O32	2	REPR.FORMICA-VINYL EXT.3RD+ FL
0415O35	2	REPLC.FORMICA-VINYL EXT.3RD+FL
0415P00	2	ASBESTOS EXTERIOR FINISH
0415P10	2	first floor
0415P12	2	REPR.ASBESTOS EXT. WALL 1ST FL
0415P15	2	REPLC.ASBESTOS EXT.WALL 1ST FL
0415P20	2	second floor
0415P22	2	REPR.ASBESTOS EXT.WALL 2ND FL
0415P25	2	REPLC.ASBESTOS EXT.WALL 2ND FL
0415P30	2	third + floors
0415P32	2	REPR.ASBESTOS EXT.WALL 3RD FLR
0415P35	2	REPLC.ASBESTOS EXT.WALL 3RD+FL
0415R00	2	SYNTHETIC VENEER-PLASTER EXT. FINISH
0415R10	2	first floor
0415R12	2	REPAIR SYNTH.VENEER EXT. 1ST F
0415R13	2	REFN.RPRD.SYNTH.VENEER EXT.1ST FL.
0415R14	2	REFIN.SYNTH.VENEER EXT.1ST FL.
0415R15	2	REPLC.SYNTH.VENEER EXT.1ST FL.
0415R16	2	RFN.REPLD.SYNTH.VENEER 1ST FL
0415R20	2	second floor
0415R22	2	REPAIR SYNTH.VENEER EXT.2ND FL
0415R23	2	REFN.RPLCD.SYNTH.VENEER 2ND FL
0415R24	2	REFIN.SYNTH.VENEER EXT.2ND FL.
0415R25	2	REPLC.SYNTH.VENEER EXT.2ND FL.
0415R26	2	REFN.SYNTH.VENEER EXT.2ND FL.
0415R30	2	third + floors
0415R32	2	REPAIR SYNTH.VENEER EXT.3RD
0415R33	2	REFN.RPLCD.SYNTH.VENEER 3RD FL
0415R34	2	REFIN.SYNTH.VENEER EXT.3RD FL.
0415R35	2	REFIN.SYNTH.VENEER EXT.3RD FL.
0415R36	2	REFN.RPLCD.SYNTH.VENEER 3RD FL
0415S00	2	PORCELAIN PANELS EXTERIOR FINISH
0415S10	2	first floor
0415S12	2	REPR.PORCELAIN EXT.PAN.1ST FL.
0415S15	2	REPLC.PORCELAIN EXT.PAN.1ST FL
0415S20	2	second floor
0415S22	2	REPR.PORCELAIN EXT.PAN.2ND FL.

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0415S25  2  REPLC.PORCELAIN EXT.PAN.2ND FL
0415S30  2     third + floors
0415S32  2  REPR.PORCELAIN EXT.PAN.3RD FL.
0415S35  2  REPLC.PORCELAIN EXT.PAN.3RD FL
0420000 EXTERIOR DOORS
0421000 METAL DOORS
0421100  1  ALUMINUM (PLAIN & ANODIZED)
0421110  1  ALUMINUM (PLAIN & ANODIZED)
0421112  1  REPAIR ALUMINIUM (P/A) EXTERIOR DOOR
0421115  1  REPLACE ALUMINIUM (P/A) EXTERIOR DOOR
0421200  1  STEEL (PAINTED)
0421210  1  STEEL (PAINTED)
0421212  1  REPAIR STEEL (PAINTED) EXTERIOR DOOR
0421214  1  REFINISH STEEL (PAINTED) EXTERIOR DOOR
0421215  1  REPLACE STEEL (PAINTED) EXTERIOR DOOR
0421216  1  REFIN. REPLACED STEEL (PAINT) EXT. DOOR
0421300  1  STEEL (UNPAINTED)
0421310  1  STEEL (UNPAINTED)
0421312  1  REPAIR STEEL (UNPAINTED) EXTERIOR DOORS
0421315  1  REPLACE STEEL (UNPAINTED) EXTERIOR DOORS
0422000 FULLY GLAZED DOORS
0422100  1  ALUMINUM FRAME
0422110  1  ALUMINUM FRAME
0422111  1  BROKEN GLASS:REPLACEMENT ALUMINUM EXT.DR
0422112  1  REPAIR ALUMINIUM EXTERIOR DOORS
0422115  1  REPLACE ALUMINIUM EXTERIOR DOORS
0422200  1  WOOD FRAME (PAINTED)
0422210  1  WOOD FRAME (PAINTED)
0422211  1  BROKEN GLASS:REPL.WOOD FRAME(PNTD)EXT.DR
0422212  1  REPAIR WOOD FRAME EXTERIOR DOORS
0422214  1  REFINISH WOOD FRAME (PAINTED) EXT. DOOR
0422215  1  REPLACE WOOD FRAME (PAINTED) EXT. DOOR
0422216  1  REFIN. REPLACED WOOD FRAME(PNTD)EXT.DOOR
0423000 WOOD DOORS
0423100  1  HOLLOW CORE (PAINTED)
0423110  1  HOLLOW CORE (PAINTED)
0423112  1  REPAIR HOLLOWCORE (PAINTED) EXT.DOOR
0423114  1  REFINISH HOLLOWCORE (PNTD)EXTERIOR DOORS
0423115  1  REPLACE HOLLOW CORE (PAINTED) EXT. DOOR
0423116  1  REFIN.REPLACED HOLLOW CORE (PNTD)EXT. DR
0423200  1  SOLID CORE (PAINTED)
0423210  1  SOLID CORE (PAINTED)
0423212  1  REPAIR SOLID CORE (PAINTED) EXT.DOOR
0423214  1  REFINISH SOLID CORE (PAINTED) EXT. DOOR
0423215  1  REPLACE SOLID CORE (PAINTED) EXT. DOOR
0423216  1  REFIN. REPLACED SOLID CORE (PNTD)EXT.DR.
0424000 SPECIAL DOORS
0425000 GATES
0426000 SCREEN/STORM
0426100  1  ALUMINUM (PLAIN & ANODIZED)
0426110  1  ALUMINUM (PLAIN & ANODIZED)
0426112  1  REPAIR ALUMINIUM (P/A) EXTERIOR DOORS
0426115  1  REPLACE ALUMINIUM (P/A) EXTERIOR DOORS
0426200  1  PLASTIC
0426210  1  PLASTIC
0426212  1  REPAIR PLASTIC EXTERIOR DOORS
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0426215  1  REPLACE PLASTIC EXTERIOR DOORS
0427000 GARAGE - ROLL-UP DOOR
0427100  1  SINGLE ROLL-UP DOOR
0427102  1  REPR.STEEL FRM.SINGLE(PNTD) DR
0427104  1  REFINISH STEEL FRAME (PAINTED) EXT. DOOR
0427105  1  REPLACE STEEL FRAME SINGLE (PNTD)EXT.DR.
0427106  1  REFIN.REPLC.STEEL FRM.SINGLE(PNTD)EXT.DR
0427200  1  DOUBLE ROLL-UP DOOR
0427202  1  REPR.STEEL FRM.DBL.(PNT)EXT.DR
0427204  1  REFN.STEEL FRM.DBL.(PND)EXT.DR
0427205  1  REPLC.STEEL FRM.DBL(PND)EXT.DR
0427206  1  RPLC.FIN.ST.FRM.DBL(PND)EXT.DR
0430000 EXTERIOR WINDOWS
0431000 OPERABLE WINDOWS
0431100  1  ALUMINUM OPERABLE WINDOWS
0431110  1     first floor
0431111  1  BROKEN GLASS:REPLACEMT.ALUM.EXT.WND.1ST FL.
0431112  1  REPAIR ALUMINIUM EXTERIOR WND. 1ST FL.
0431115  1  REPLACE ALUMINIUM EXTERIOR WND. 1ST FL.
0431120  1     second floor
0431121  1  BROKEN GLASS:REPLCMT.ALUM.WND.EXT.2ND FL
0431122  1  REPAIR ALUMINIUM EXTERIOR WND. 2ND FL.
0431125  1  REPLACE ALUMINIUM EXTERIOR WNDW. 2ND FL.
0431130  1     third + floors
0431131  1  BROKEN GLASS:REPLCMT.ALUM.EXT.WDW.3RD+FL
0431132  1  REPAIR ALUMINIUM EXTERIOR WDW. 3RD+FL.
0431135  1  REPLACE ALUMINIUM EXTERIOR WDW. 3RD+ FL.
0431200  1  STEEL FRAME (PAINTED) OPER. WINDOW
0431210  1     first floor
0431211  1  BROKEN GLASS:REPLMNT.STEEL FRM.1ST FL.
0431214  1  REFINISH STEEL FRM.(PAINT)EXT.WDW.1ST FL.
0431215  1  REPLACE STEEL FRM.(PNTD)EXT.WDW. 1ST FL.
0431216  1  REFIN.RPLC.STEEL FRM.(PNTD)EXT.WDW.1ST FL.
0431220  1     second floor
0431221  1  BRKN.GLS:RPLMT.STL.FRM(PNTD)EXT.WDW.2ND FL.
0431224  1  REFINISH STEEL FRAME(PNTD)EXT.WDW.2ND FL.
0431225  1  REPLACE STEEL FRM(PNTD)EXT. WDW.2ND FL.
0431226  1  REFIN.RPLC.STEEL FRM(PNTD)EXT.WDW.2ND FL.
0431230  1     third + floors
0431231  1  BR.GLS:REPLMNT.STEEL FRM(PNTD)EXT.3RD+FL
0431234  1  REFINISH STEEL FRM(PNTD)EXT.WDW. 3RD+FL.
0431235  1  REPLACE STEEL FRM(PNTD)EXT.WDW. 3RD+FL.
0431236  1  REFN.RPLCD.STEEL FRM(PNTD)EXT.WDW.3RD+FL
0431300  1  WOOD FRAME (PAINTED) OPERABLE WINDOW
0431310  1     first floor
0431311  1  BR.GLS:RPLMT.WOOD FRM(PNT)EXT)EXT.WDW.1ST FL
0431314  1  REFINISH WOOD FRAME(PNTD)EXT.WDW.1ST FL.
0431315  1  REPLACE WOOD FRAME(PNTD)EXT.WDW.2ND FL.
0431316  1  REFIN.RPLCD.WOOD FRM(PNTD)EXT.WDW.1ST FL
0431320  1     second floor
0431321  1  BRKN.GLS:RPLMT.WOOD FRM(PNT)EXT)EXT.2ND FL.
0431324  1  REFINISH WOOD FRAME(PNTD)EXT.WDW.2ND FL.
0431325  1  REPLACE WOOD FRAME(PNTD)EXT.WDW.2ND FL.
0431326  1  REFIN.RPLCD.WOOD FRM(PNTD)EXT.WDW.2ND FL.
0431330  1     third + floors
0431331  1  BRKN GLS:RPLMNT.WOOD FRM(PNT)EXT.3RD+FL.
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Caces No : Unit of Measure : Description

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0431334   1   REFINISH WOOD FRM(PNTD)EXT.WDW.3RD+FL.
0431335   1   REPLACE WOOD FRM(PNTD)EXT.WDW.3RD+FLS.
0431336   1   REFIN.REPLCD.WOOD FRM(PNT)EXT.WDW.3RD+FL
0431400   1   PLASTIC (WOOD CORE) FRAME OPER. WINDOW
0431410   1   first floor
0431411   1   BR.GLS:REPL.PLAST.(WD.CR)FRM.EXT.1ST FL.
0431412   1   REPR.PLASTIC(WD.CORE)FRM.EXT.WDW.1ST FL
0431415   1   REPLC.PLASTIC(WD.CORE)FRM.EXT.WDW.1ST FL
0431420   1   second floor
0431421   1   BR.GLS:RPLMNT.PLAS.(WD.CR)FRM.EXT.2ND FL
0431422   1   REPR.PLASTIC(WD.CORE)FRM.EXT.WDW.2ND FL.
0431425   1   REPLC.PLAS.(WD.CORE)FRM.EXT.WDW.2ND FL.
0431430   1   third + floors
0431431   1   BR.GLS:RPLMNT.PLAS(WD.CR)FRM.EXT.3RD FL.
0431432   1   REPAIR PLAS(WD.CORE)FRM.EXT.WDW.3RD+FL.
0431435   1   REPLACE PLAS(WD.CORE)FRM.EXT.WDW.3RD+FL.
0431500   1   GLASS BLOCK (OPERABLE) WINDOW
0431510   1   first floor
0431511   1   BRKN.GLS:REPLMNT.GLASS BLOCK EXT.1ST FL.
0431512   1   REPAIR GLASS BLOCK EXT.WDW. 1ST FL.
0431515   1   REPLACE GLASS BLOCK EXT.WDW. 1ST FLOOR
0431520   1   second floor
0431521   1   BRKN.GLS:REPLMNT.GLASS BLOCK  EXT.1ST FL.
0431522   1   REPAIR GLASS BLOCK EXT. WDW. 2ND FLOOR
0431525   1   REPLACE GLASS BLOCK EXT. WDW. 2ND FLOOR
0431530   1   third + floors
0431531   1   BRKN.GLS:REPLMNT.GLASS BLOCK EXT.3RD+FL.
0431532   1   REPAIR GLASS BLOCK EXT. WDW. 3RD +FLOORS
0431535   1   REPLACE GLASS BLOCK EXT. WDW. 3RD+FLOORS
0431600   1   DOUBLE PANE ALUMINUM OPERABLE WINDOW
0431610   1   first floor
0431611   1   BRKN.GLS:RPLMNT.ALUM.(DBL)EXT.1ST FL.
0431612   1   REPAIR ALUMINUM(DOUBLE)EXT.WDW.1ST FL.
0431615   1   REPLACE ALUMINIUM(DOUBLE)EXT.WDW.1ST FL.
0431620   1   second floor
0431621   1   BRKN.GLS:RPLMNT.ALUM.(DBL)EXT.2ND FL.
0431622   1   REPAIR ALUMINUM(DOUBLE)EXT.WDW.2ND FL.
0431625   1   REPLACE ALUMINUM(DOUBLE)EXT.WDW.2ND FL.
0431630   1   third + floors
0431631   1   BRKN.GLS:REPLMNT.ALUM.(DBL)EXT.3RD+FLS.
0431632   1   REPAIR ALUMINUM(DOUBLE)EXT.WDW. 3RD+FLS.
0431635   1   REPLACE ALUMINUM(DOUBLE)EXT.WDW.3RD+FLS.
0431700   1   DOUBLE PANE STEEL OPERABLE WINDOW
0431710   1   first floor
0431711   1   BRKN.GLS:RPLMNT.STEEL.FRM(DBL)EXT.1ST FL.
0431714   1   REFINISH STEEL FRAME(DBL)EXT.WDW.1ST FL.
0431715   1   REFIN.REPLC.STEEL FRM.(DBL)EXT.1ST FL.
0431716   1   REFIN.REPLC.STEEL FRM.(DBL)EXT.1ST FL.
0431720   1   second floor
0431721   1   BRKN.GLS:RPLMNT.STEEL FRM(DBL)EXT.2ND FL.
0431724   1   REFINISH STEEL FRAME(DBL)EXT.WDW. 2ND FL.
0431725   1   REPLACE STEEL FRAME(DBL)EXT.WDW. 2ND FL.
0431726   1   REFN.REPLC.STEEL FRM(DBL)EXT.WDW.2ND FL.
0431730   1   third + floors
0431731   1   BRKN.GLS:RPLMNT.STEEL FRM(DBL)EXT.3RD+FL.
0431734   1   REFINISH STEEL FRAME(DBL)EXT.WDW.3RD+FL.
0431735   1   REPLACE STEEL FRAME(DBL)EXT.WDW.3RD+FLS.
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Caces No : Unit of Measure : Description

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0431736   1   REFIN.RPLC.STEEL FRM(DBL)EXT.WDW.3RD+FL.
0431800   1   DOUBLE PANE WOOD FRAME OPERABLE WINDOW
0431810   1   first floor
0431811   1   BRKN.GLS:RPLMNT.WOOD FRM(DBL)EXT.1ST FL.
0431814   1   REFINISH WOOD FRAME(DBL)EXT.WDW.1ST FL.
0431815   1   REPLACE WOOD FRAME(DBL)EXT.WDW.1ST FL.
0431816   1   REFIN.REPLC.WOOD FRM(DBL)EXT.WDW.1ST FL.
0431820   1   second floor
0431821   1   BRKN.GLS:RPLMNT.WOOD FRM(DBL)EXT.2ND FL.
0431824   1   REFINISH WOOD FRAME(DBL)EXT.WDW.2ND FL.
0431825   1   REPLACE WOOD FRAME(DBL)EXT.WDW.2ND FL.
0431826   1   REFIN.REPLC.WOOD FRM(DBL)EXT.WDW.2ND FL.
0431830   1   third + floors
0431831   1   BRKN.GLS:RPLMNT.WOOD FRM(DBL)EXT.3RD+FL.
0431834   1   REFINISH WOOD FRAME(DBL)EXT.WDW.3RD+FLS.
0431835   1   REPLACE WOOD FRAME(DBL)EXT.WDW.3RD+FLS.
0431836   1   REFIN.REPLC.WOOD FRM(DBL)EXT.WDW.3RD+FL.
0431900   1   DOUBLE PANE PLASTIC FRAME OPER. WINDOW
0431910   1   first floor
0431911   1   BRKN.GLS:RPLMNT.PLASTIC(WD.CR)EXT.1ST FL.
0431912   1   REPR.PLAST(WD.CR)FRM.DBL.EXT.WDW.1ST FL.
0431915   1   RPLC.PLAST(WD.CR)FRM.DBL.EXT.WDW.1ST FL.
0431920   1   second floor
0431921   1   BRKN.GLS:RPLMNT.PLASTIC(WD.CR)EXT.2ND FL.
0431922   1   REPR.PLAST(WD.CR)FRM.DBL.EXT.WDW.2ND FL.
0431925   1   RPLC.PLAST(WD.CR)FRM.DBL.EXT.WDW.2ND FL.
0431930   1   third + floors
0431931   1   BRKN.GLS:RPLMNT.PLASTIC(WD.CR)EXT.3RD+FL.
0431932   1   REPR.PLAST(WD.CR)FRM.DBL.EXT.WDW.3RD+FL.
0431935   1   RPLC.PLAST(WD.CR)FRM.DBL.EXT.WDW.3RD+FL.
0432000   FIXED WINDOWS
0432100   1   ALUMINUM FIXED WINDOW
0432110   1   first floor
0432111   1   BRKN.GLS:RPLMNT.ALUM.FIX.EXT.WDW.1ST FL.
0432112   1   REPAIR ALUMINUM FIX.EXT.WDW.1ST FLOOR
0432115   1   REPLACE ALUMINUM FIX.EXT.WDW.1ST FLOOR
0432120   1   second floor
0432121   1   BRKN.GLS:RPLMNT.ALUM.FIX.EXT.WDW.2ST FL.
0432122   1   REPAIR ALUMINUM FIX.EXT.WDW.2ND FLOOR
0432125   1   REPLACE ALUMINUM FIXED EXT.WDW.2ND FLOOR
0432130   1   third + floors
0432131   1   BRKN.GLS:REPLMT ALUM.FIX.EXT.WDW.3RD+FLOORS
0432132   1   REPAIR ALUMINUM FIXED EXT.WDW.3RD+FLOOR
0432135   1   REPLACE ALUMINUM FIXED EXT.WDW.3RD+FLOOR
0432200   1   STEEL FRAME (PAINTED) FIXED WINDOW
0432210   1   first floor
0432211   1   REPAIR STEEL FRAME(PNTD)EXT.WDW.1ST FLOOR
0432214   1   REFINISH STEEL FRAME(PNT)EXT.WDW.1ST FL.
0432215   1   REPLACE STEEL FRAME(PNTD)EXT.WDW.1ST FL.
0432216   1   REFIN.RPLC.STEEL FRM.FIX.EXT.WDW.1ST FL.
0432220   1   second floor
0432221   1   REPR.STEEL FRAME FIX.EXT.WDW.2ND FLOOR
0432224   1   REFIN.STEEL FRAME FIX.EXT.WDW.2ND FL.
0432225   1   REPLC.STEEL FRAME FIX.EXT.WDW.2ND FLOOR
0432226   1   REFIN.RPLC.STEEL FRM.FIX.EXT.WDW.2ND FL.
0432230   1   third + floors
0432231   1   REPAR.STEEL FRAME FIX.EXT.WDW.3RD+FLOORS
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Caces No : Unit of Measure : Description

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0432635  1  REPLACE ALUMINUM FIX(DBL)EXT.WDW.3RD FL.
0432700  1  DOUBLE PANE STEEL FIXED WINDOW
0432710  1     first floor
0432711  1     REPAIR STEEL FRM(DBL)FIX.EXT.WDW.1ST FL.
0432714  1     REFIN.STEEL FRM(DBL)FIX.EXT.WDW.1ST FLR.
0432715  1     REPLCE.STEEL FRM(DBL)FIX.EXT.WDW.1ST FL.
0432716  1     RFN.RPLC.STL.FRM(DBL)FIX.EXT.WDW.1ST FL.
0432720  1     second floor
0432721  1     REPAIR.STEEL FRM(DBL)FIX.EXT.WDW.2ND FL.
0432724  1     REFIN.STEEL FRM(DBL)FIX.EXT.WDW.2ND FLR.
0432725  1     REPLCE.STEEL FRM(DBL)FIX.EXT.WDW.2ND FL.
0432726  1     RFN.RPLC.STL.FRM(DBL)FIX.EXT.WDW.2ND FL.
0432730  1     third + floors
0432731  1     REPAIR.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FL.
0432734  1     REFIN.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0432735  1     REPLCE.STEEL FRM(DBL)FIX.EXT.WDW.3RD+FL.
0432736  1     RFN.RPLC.STL.FRM(DBL)FIX.EX*.WDW.3RD+FL.
0432800  1  DOUBLE PANE WOOD FRAME FIXED WINDOW
0432810  1     first floor
0432811  1     REPAIR WOOD FRM(DBL)FIX.EXT.WDW.1ST FLR.
0432814  1     REFIN. WOOD FRM(DBL)FIX.EXT.WDW.1ST FLR.
0432815  1     REPLCE.WOOD FRM(DBL)FIX.EXT.WDW.1ST FL.
0432816  1     RFN.RPLC.WOOD FRM(DBL)FIX.EXT.WDW.1ST FL
0432820  1     second floor
0432821  1     REPAIR WOOD FRM(DBL)FIX.EXT.WDW.2ND FLR.
0432824  1     REFIN.WOOD FRM(DBL)FIX.EXT.WDW.2ND FLR.
0432825  1     REPLACE WOOD FRM(DBL)FIX.EXT.WDW.2ND FL.
0432826  1     RFN.RPLC.WOOD FRM(DBL)FIX.EXT.WDW.2ND FL
0432830  1     third + floors
0432831  1     REPAIR.WOOD FRM(DBL)FIX.EXT.WDW.3RD+FLS.
0432834  1     REFIN.WOOD FRM(DBL)FIX.EXT.WDW.3RD+FL.
0432835  1     REPLACE WOOD FRM(DBL)FIX.EXT.WDW.3RD+FL.
0432836  1     RFN.RPLC.WOOD FRM(DBL)FIX.EXT.WDW.3RD+FL.
0432900  1  DOUBLE PANE PLASTIC FRAME FIXED WINDOW
0432910  1     first floor
0432911  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.1ST FL.
0432912  1     REPR.PLAST(WD.CR)DBL.FIX.EXT.WDW.1ST FL.
0432915  1     RPLC.PLAST(WD.CR)DBL.FIX.EXT.WDW.1ST FL.
0432920  1     second floor
0432921  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.2ND FL.
0432922  1     REPR.PLAST(WD.CR)DBL.FIX.EXT.WDW.2ND FL.
0432925  1     RPLC.PLAST(WD.CR)DBL.FIX.EXT.WDW.2ND FL.
0432930  1     third + floors
0432931  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.3RD+FL.
0432932  1     REPR.PLAST(WD.CR)DBL.FIX.EXT.WDW.3RD+FL.
0432935  1     RPLC.PLAST(WD.CR)DBL.FIX.EXT.WDW.3RD+FL.
0433000  LOUVERS
0440000  EXTERIOR PORCHES
0441000  DECKS
0441100  2  CONCRETE DECKING - PORCH
0441102  2     REPAIR CONCRETE DECKING EXTERIOR PORCH
0441103  2     REFINISH REPAIRED CONC.DECKING EXT.PORCH
0441104  2     REFINISH CONCRETE DECKING EXTERIOR PORCH
0441105  2     REPLACE CONCRETE DECKING EXTERIOR PORCH
0441106  2     REFINISH REPLACED CONC.DECKING EXT.PORCH
0441200  2  WOOD DECKING - PORCH
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Caces No : Unit of Measure : Description

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0432234  1     REFINISH STEEL FRAME FIX.EXT.WDW.3RD+FL.
0432235  1     REPLACE STEEL FRAME FIX.EXT.WDW.3RD+FLS.
0432236  1     REFIN.RPLC.STEEL FRM.FIX.EXT.WDW.3RD+FL.
0432300  1  WOOD FRAME (PAINTED) FIXED WINDOW
0432310  1     first floor
0432311  1     REPAIR WOOD FRAME FIX.EXT.WDW.1ST FLOOR
0432314  1     REFINISH WOOD FRAME FIX.EXT.WDW.1ST FLR.
0432315  1     REPLACE WOOD FRAME FIX.EXT.WDW.1ST FLOOR
0432316  1     REFIN.RPLC.WOOD FRM.FIX.EXT.WDW.1ST FLR.
0432320  1     second floor
0432321  1     REPAIR WOOD FRAME FIXED EXT.WDW.2ND FL.
0432324  1     REFINISH WOOD FRAME FIX.EXT.WDW.2ND FLR.
0432325  1     REPLACE WOOD FRAME FIX.EXT.WDW.2ND FLOOR
0432326  1     REFIN.RPLC.WOOD FRM.FIX.EXT.WDW.2ND FLR.
0432330  1     third + floors
0432331  1     REPAIR WOOD FRAME FIX.EXT.WDW.3RD FLOORS
0432334  1     REFINISH WOOD FRAME FIX.EXT.WDW.3RD+FLOORS
0432335  1     REPLACE WOOD FRAME FIX.EXT.WDW.3RD+FLRS.
0432336  1     REFIN.RPLC.WOOD FRM.FIX.EXT.WDW.3RD+FLS.
0432400  1  PLASTIC (WOOD FRAME) FIXED WINDOW
0432410  1     first floor
0432411  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.1ST FL.
0432412  1     REPR.PLAST(WD.CR)FRM.FIX.EXT.WDW.1ST FL.
0432415  1     RPLC.PLAST(WD.CR)FRM.FIX.EXT.WDW.1ST FL.
0432420  1     second floor
0432421  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.2ND FL.
0432422  1     REPR.PLAST(WD CR)FRM.FIX.EXT.WDW.2ND FL.
0432425  1     RPLC.PLAST(WD.CR)FRM.FIX.EXT.WDW.2ND FL.
0432430  1     third + floors
0432431  1     BRKN.GLS:RPLMT.PLASTIC(WD.CR)FIX.3RD+FL.
0432432  1     REPR.PLAST(WD.CR)FRM.FIX.EXT.WDW.3RD+FL.
0432435  1     RPLC.PLAST(WD.CR)FRM.FIX.EXT.WDW.3RD+FLS.
0432500  1  GLASS BLOCK FIXED WINDOW
0432510  1     first floor
0432511  1     BRKN.GLS:REPLMNT.GLASS BLOCK FIX.1ST FL.
0432512  1     REPAIR GLASS BLOCK FIX.EXT.WDW.1ST FLOOR
0432515  1     REPLACE GLASS BLOCK FIX.EXT.WDW.1ST FLR.
0432520  1     second floor
0432521  1     BRKN.GLS:REPLMNT.GLASS BLOCK FIX.2ND FLR.
0432522  1     REPAIR GLASS BLOCK FIX.EXT.WDW.2ND FLOOR
0432525  1     REPLACE GLASS BLOCK FIX.EXT.WDW.2ND FLR.
0432530  1     third + floors
0432531  1     BRKN.GLS:REPLMNT.GLASS BLOCK FIX.3RD+FL.
0432532  1     REPAIR GLASS BLOCK FIX.EXT.WDW.3RD+FLRS.
0432535  1     REPLACE GLASS BLOCK FIX.EXT.WDW.3RD+FLS.
0432600  1  DOUBLE PANE ALUMINUM FIXED WINDOW
0432610  1     first floor
0432611  1     BRKN.GLS:RPLMT.ALUM.FIX(DBL)EXT.1ST FLR.
0432612  1     REPAIR ALUMINUM FIX(DBL)EXT.WDW.1ST FLR.
0432615  1     REPLACE ALUMINUM FIX(DBL)EXT.WDW.1ST FL.
0432620  1     second floor
0432621  1     BRKN.GLS:RPLMT.ALUM.FIX(DBL)EXT.1ST FLR.
0432622  1     REPAIR ALUMINUM FIX(DBL)EXT.WDW.2ND FLR.
0432625  1     REPLACE ALUMINUM FIX(DBL)EXT.WDW.2ND FL.
0432630  1     third + floors
0432631  1     BRKN.GLS:REPLMT.ALUM.FIX(DBL)EXT.3RD+FL.
0432632  1     REPAIR ALUMINUM FIX(DBL)EXT.WDW.3RD+FLS.
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Caces No : Unit of Measure : Description

Caces No	UM	Description
0441202	2	REPAIR WOOD DECKING EXTERIOR PORCH
0441203	2	REFINISH REPAIRED WOOD DECKING EXT.PORCH
0441204	2	REFINISH WOOD DECKING EXTERIOR PORCH
0441205	2	REPLACE WOOD DECKING EXTERIOR PORCH
0441206	2	REFINISH REPLACED DECKING EXTERIOR PORCH
0441300	2	METAL DECKING-PORCH
0441302	2	REPAIR METAL DECKING EXTERIOR PORCH
0441303	2	REFINISH REPAIRED METAL DECK.EXT.PORCH
0441304	2	REFINISH METAL DECKING EXTERIOR PORCH
0441305	2	REPLACE METAL DECKING EXTERIOR PORCH
0441306	2	REFINISH REPLACED METAL DECK.EXT.PORCH
0442000		RAILINGS
0442100	3	WROUGHT IRON EXT. PORCH RAILING
0442102	3	REPAIR WROUGHT IRON RAILING EXT.PORCH
0442103	3	REFIN.REPRED.WROUGHT IRON RAIL.EXT.PORCH
0442104	3	REFINISH WROUGHT IRON RAILING EXT.PORCH
0442105	3	REPLACE WROUGHT IRON RAILING EXT.PORCH
0442106	3	REFIN.REPLCD.WROUGHT IRON RAIL.EXT.PORCH
0442200	3	WOOD EXTERIOR PORCH RAILING
0442202	3	REPAIR WOOD RAILING EXTERIOR PORCH
0442203	3	REFINISH REPAIRED WOOD RAILING EXT.PORCH
0442204	3	REFINISH WOOD RAILING EXTERIOR PORCH
0442205	3	REPLACE WOOD RAILING EXTERIOR PORCH
0442206	3	REFINISH REPLACED WOOD RAILING EXT.PORCH
0443000		SUPPORT MEMBERS
0443100	2	CONCRETE EXTERIOR PORCH SUPPORTS
0443102	2	REPAIR CONCRETE SUPPORTS EXTERIOR PORCH
0443103	2	REFINISH REPAIRED CONCR.SUPPT.EXT.PORCH
0443104	2	REFINISH CONCRETE SUPPORTS EXT.PORCH
0443105	2	REPLACE CONCRETE SUPPORTS EXTERIOR PORCH
0443106	2	REFINISH REPLACED CONCR. SUPPT.EXT.PORCH
0443200	2	WOOD EXTERIOR PORCH SUPPORTS
0443202	2	REPAIR WOOD SUPPORTS EXTERIOR PORCH
0443203	2	REFINISH REPAIRED WOOD SUPPORT EXT.PORCH
0443204	2	REFINISH WOOD SUPPORTS EXTERIOR PORCH
0443205	2	REPLACE WOOD SUPPORTS EXTERIOR PORCH
0443206	2	REFINISH REPLACED WOOD SUPPT.EXT.PORCH
0443300	2	CLAY BRICK EXTERIOR PORCH SUPPORTS
0443302	2	REPAIR CLAY BRICK SUPPORTS EXT. PORCH
0443303	2	REFIN.REPRED.CLAY BRICK SUPPT.EXT.PORCH
0443304	2	REFINISH CLAY BRICK SUPPORTS EXT.PORCH
0443305	2	REPLACE CLAY BRICK SUPPORTS EXTER.PORCH
0443306	2	REFIN. REPLCD.CLAY BRICK SUPPT.EXT.PORCH
0444000		COLUMNS
0444100	3	METAL EXTERIOR PORCH COLUMNS
0444102	3	REPAIR METAL COLUMN EXTERIOR PORCH
0444103	3	REFINISH REPAIRED METAL COLUMN EXT.PORCH
0444104	3	REFINISH METAL COLUMN EXTERIOR PORCH
0444105	3	REPLACE METAL COLUMN EXTERIOR PORCH
0444106	3	REFINISH REPLACED METAL COLUMN EXT.PORCH
0444200	3	WOOD EXTERIOR PORCH COLUMNS
0444202	3	REPAIR WOOD COLUMNS EXTERIOR PORCH
0444203	3	REFINISH REPAIRED WOOD COLUMN EXT.PORCH
0444204	3	REFINISH WOOD COLUMN EXTERIOR PORCH
0444205	3	REPLACE WOOD COLUMN EXTERIOR PORCH
0444206	3	REFINISH REPLACED WOOD COLUMN EXT.PORCH
0444300	3	CLAY BRICK EXTERIOR PORCH COLUMNS

Caces No : Unit of Measure : Description

Caces No	UM	Description
0444302	3	REPAIR CLAY BRICK COLUMN EXTERIOR PORCH
0444303	3	REFIN.REPRED.CLAY BRICK COLUMN EXT.PORCH
0444304	3	REFINISH CLAY BRICK COLUMN EXTER.PORCH
0444305	3	REPLACE CLAY BRICK COLUMN EXTERIOR PORCH
0444306	3	REFIN.REPLCD.CLAY BRICK COLUMN EXT.PORCH
0450000		EXTERIOR ORNAMENT
0451000		CORNICES
0451100	3	STONE EXTERIOR CORNICE
0451102	3	REPAIR STONE CORNICE EXTERIOR ORNAMENT
0451105	3	REPLACE STONE CORNICE EXTERIOR ORNAMENT
0451200	3	WOOD EXTERIOR CORNICE
0451202	3	REPAIR WOOD CORNICE EXTERIOR ORNAMENT
0451203	3	REFINISH REPAIRED WOOD CORNICE EXT.ORNMT
0451204	3	REPLACE WOOD CORNICE EXTERIOR ORNAMENT
0451205	3	REPLACE WOOD CORNICE EXTERIOR ORNAMENT
0451206	3	REFINISH REPLACED WOOD CORNICE EXT.ORNMT
0460000		EXTERIOR STAIRS
0461000		RAILINGS
0461100	3	WOOD EXTERIOR STAIR RAILING
0461102	3	REPAIR WOOD RAILINGS EXTERIOR STAIRS
0461103	3	REFINISH REPAIRED WOOD RAILING EXT.STAIR
0461104	3	REFINISH WOOD RAILING EXTERIOR STAIRS
0461105	3	REPLACE WOOD RAILINGS EXTERIOR STAIRS
0461106	3	REFINISH REPLACED WOOD RAILING EXT.STAIR
0461200	3	METAL EXTERIOR STAIR RAILING
0461202	3	REPAIR METAL RAILING EXTERIOR STAIR
0461203	3	REFINISH REPAIRED METAL RAILNG.EXT.STAIR
0461204	3	REFINISH METAL RAILING EXTERIOR STAIRS
0461205	3	REPLACE METAL RAILING EXTERIOR STAIRS
0461206	3	REFINISH REPLACED METAL RAILNG.EXT.STAIR
0462000		STEPS
0462100	2	CONCRETE EXTERIOR STEPS
0462102	2	REPAIR CONCRETE STEPS EXTERIOR STAIR
0462105	2	REPLACE CONCRETE STEPS EXTERIOR STAIRS
0462200	2	WOOD EXTERIOR STEPS
0462202	2	REPAIR WOOD STEPS EXTERIOR STAIR
0462203	2	REFINISH REPAIR WOOD STEPS EXTER.STAIR
0462204	2	REFINISH WOOD STAIRS EXTERIOR STAIRS
0462205	2	REPLACE WOOD STEPS EXTERIOR STAIRS
0462206	2	REFINISH REPLACE WOOD STEPS EXTER.STAIR
0462300	2	METAL EXTERIOR STEPS
0462302	2	REPAIR METAL STEPS EXTERIOR STAIR
0462303	2	REFINISH REPAIRED METAL STEPS EXT.STAIR
0462304	2	REFINISH METAL STEPS EXTERIOR STAIR
0462305	2	REPLACE STEPS
0462306	2	REFINISH REPLACED METAL STEPS EXT.STAIR
0462400	2	MASONRY EXTERIOR STEPS (UNPAINTED)
0462402	2	REPAIR MASONRY STEP UNPAINTED EXT.STAIR
0462405	2	REPLACE MASONRY STEP UNPAINTED EXT.STAIR
0462500	2	MASONRY EXTERIOR STEPS (PAINTED)
0462502	2	REPAIR MASONRY STEP PAINTED EXT.STAIR
0462503	2	REFIN.REPRD.MASONRY STEP PNTD EXT.STAIR
0462504	2	REFINISH MASONRY STEPS PAINTED EXT.STAIR
0462505	2	REPLACE MASONRY STEPS PAINTED EXT.STAIR
0462506	2	REFIN.REPLCD.MASONRY STEP PNTD.EXT.STAIR

Ceces No : Unit of Measure : Description

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0532204  1  REFINISH WOOD FRAME(PAINTED)INTER. DOOR
0532205  1  REPLACE WOOD FRAME(PAINTED)INTERIOR DOOR
0532206  1  REFIN.REPLCD.WOOD FRAME(PAINTED)INT.DOOR
0533000 WOOD DOORS
0533100  1  HOLLOW CORE INTERIOR DOOR
0533102  1  REPAIR HOLLOW CORE(PNTED)INTERIOR DOOR
0533104  1  REFINISH HOLLOW CORE(PAINTED)INTER.DOOR
0533105  1  REPLACE HOLLOW CORE(PAINTED)INTER. DOOR
0533106  1  REFIN.REPLC.HOLLOW CORE(PAINTED)INT.DOOR
0533200  1  SOLID CORE INTERIOR DOOR
0533202  1  REPAIR SOLID CORE(PNTED)INTERIOR DOOR
0533204  1  REFINISH SOLID CORE(PAINTED)INTER. DOOR
0533205  1  REPLACE SOLID CORE(PAINTED)INTERIOR DOOR
0533206  1  REFIN.REPLC.SOLID CORE(PAINTED)INTR.DOOR
0534000 SPECIAL DOORS
0534100  1  BI-FOLD INTERIOR DOOR
0534110  1  PANELED DOOR
0534112  1  REFINISH PANELED (PAINTED) INTERIOR DOOR
0534114  1  REPLACE PANELED (PAINTED) INTERIOR DOOR
0534115  1  REPLACE PANELED (PAINTED) INTERIOR DOORS
0534116  1  REFIN.REPLC.PANELED(PAINTED)INTER. DOOR
0534120  1  LOUVERED DOOR
0534122  1  REPAIR LOUVERED (PAINTED) INTERIOR DOORS
0534124  1  REFINISH LOUVERED(PAINTED)INTERIOR DOOR
0534125  1  REPLACE LOUVERED (PAINTED) INTERIOR DOOR
0534126  1  REFIN.REPLC.LOVERED(PAINTED)INTER. DOOR
0540000 INTERIOR WINDOWS
0541000 INTERIOR WINDOWS
0550000 FIREPLACES
0551000 CHIMNEY
0551100  2  CLAY BRICK CHIMNEY, FIREPLACE
0551102  2  REPAIR CLAY BRICK CHIMNEY - FIREPLACES
0551105  2  REPLACE CLAY BRICK CHIMNEY - FIREPLACES
0551200  2  CONCRETE CHIMNEY, FIREPLACE
0551202  2  REPAIR CONCRETE BRICK CHIMNEY - FIREPLACE
0551205  2  REPLACE CONCRETE BRICK CHIMNEY-FIREPLACE
0551300  2  STONE CHIMNEY, FIREPLACE
0551302  2  REPAIR STONE CHIMNEY - FIREPLACES
0551305  2  REPLACE STONE CHIMNEY - FIREPLACES
0552000 MANTEL
0552100  3  WOOD MANTEL - FIREPLACES
0552102  3  REPAIR WOOD MANTEL - FIREPLACES
0552103  3  REFINISH REPAIRED WOOD MANTEL-FIREPLACE
0552104  3  REFINISH WOOD MANTEL - FIREPLACE
0552105  3  REPLACE WOOD MANTEL - FIREPLACE
0552106  3  REFINISH REPLACED WOOD MANTEL-FIREPLACE
0552200  3  CONCRETE MANTEL
0552202  3  REPAIR CONCRETE MANTEL - FIREPLACE
0552205  3  REPLACE CONCRETE MANTEL - FIREPLACE
0552300  3  STONE MANTEL
0552302  3  REPAIR STONE MANTEL - FIREPLACE
0552305  3  REPLACE STONE MANTEL - FIREPLACE
0553000 FINISHES
0553100  2  CLAY BRICK FINISH, FIREPLACE
0553102  2  REPAIR BRICK VENEER - FIREPLACE
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Ceces No : Unit of Measure : Description

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0462600  2  QUARRY TILE EXTERIOR STEPS
0462602  2  REPAIR QUARRY TILE STEPS EXTERIOR STAIR
0462605  2  REPLACE QUARRY TILE STEPS EXTERIOR STAIR
0470000 EXTERIOR HARDWARE
0471000 HINGE
0471100  1  BRASS EXTERIOR HINGE
0471105  1  REPLACE BRASS HINGE EXTERIOR HARDWARE
0472000 LOCKSET
0472100  1  BRASS EXTERIOR LOCKSET
0472105  1  REPLACE BRASS LOCKSET EXTERIOR HARDWARE
0473000 DOOR CLOSER
0473100  1  BRASS EXTERIOR DOOR CLOSER
0473105  1  REPLACE BRASS CLOSER EXTERIOR HARDWARE
0474000 DEAD BOLT
0474100  1  BRASS EXTERIOR DEAD BOLT
0474105  1  REPLACE BRASS DEADBOLT EXTERIOR HARDWARE
0475000 WEATHERSTRIPPING
0475100  1  BRASS EXTERIOR WEATHERSTRIPPING
0475105  1  REPLACE BRASS WEATHERSTRIPPING EXT.HRDWR
0476000 EXIT BOLT (PANIC BAR)
0476100  1  METAL EXIT BOLT
0476105  1  REPLACE METAL EXITBOLT EXTERIOR HARDWARE

0500000 INTERIOR CONSTRUCTION
0510000 INTERIOR PARTITIONS-FIXED
0511000 DRYWALL
0512000 MASONRY
0513000 CONCRETE
0520000 INTERIOR PARTITIONS-MOVABLE
0521000 MOVABLE METAL PARTITIONS
0521100  2  STEEL PARTITIONS
0521102  2  REPAIR STEEL INT. PARTITION
0521105  2  REPLACE STEEL INT. PARTITIONS
0522000 MOVABLE FABRIC PARTITION
0522100  2  FABRIC PARTITION
0522102  2  REPAIR FABRIC INT. PARTITIONS
0522105  2  REPLACE FABRIC INT. PARTITIONS
0530000 INTERIOR DOORS
0531000 METAL DOORS
0531100  1  STEEL INTERIOR DOORS
0531102  1  REPAIR STEEL (PAINTED)INTERIOR DOOR
0531104  1  REFINISH STEEL (PAINTED) INTERIOR DOORS
0531105  1  REPLACE STEEL (PAINTED) INTERIOR DOORS
0531106  1  REFIN.REPLC.STEEL(PAINTED)INTERIOR DOOR
0532000 FULLY GLAZED DOORS
0532100  1  SLIDING GLASS INTERIOR DOOR
0532101  1  BRKN.GLASS:REPLMNT.ALUM.SLIDING.INT.DOOR
0532102  1  REPAIR ALUMINIUM SLIDING INTERIOR DOORS
0532105  1  REPLACE ALUMINIUM SLIDING INTERIOR DOORS
0532200  1  WOOD FRAME (PAINTED) INTERIOR DOOR
0532201  1  BRKN.GLASS:REPLMNT.WOOD FRM(PND)INT.DOOR
0532202  1  REPAIR WOOD FRAME(PAINTED)INTERIOR DOOR
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Caces No : Unit of Measure : Description

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0553103  2  REFINISH REPAIRED BRICK VENEER-FIREPLACE
0553104  2  REFINISH BRICK VENEER - FIREPLACE
0553105  2  REPLACE CLAY BRICK - FIREPLACE
0553106  2  REFIN.REPLC.CLAY BRICK VENEER-FIREPLACE
0553200  2  CONCRETE BRICK FINISH, FIREPLACE
0553202  2  REPAIR CONCRETE BRICK VENEER - FIREPLACE
0553203  2  REFIN.REPRD.CONC.BRICK VENEER-FIREPLACE
0553204  2  REFINISH CONCRETE BRICK VENEER-FIREPLACE
0553205  2  REPLACE CONCRETE BRICK VENEER-FIREPLACE
0553206  2  REIFN.REPLCD.CONC.BRICK VENEER-FIREPLACE
0553300  2  PLASTER FINISH, FIREPLACE
0553302  2  REPAIR PLASTER SURFACE - FIREPLACE
0553303  2  REFIN.REPAIR PLASTER SURFACE-FIREPLACE
0553304  2  REFINISH PLASTER SURFACE - FIREPLACE
0553305  2  REPLACE PLASTER SURFACE - FIREPLACE
0553306  2  REFIN.REPLCD.PLASTER SURFACE-FIREPLACE
0553400  2  WOOD FINISH, FIREPLACE
0553402  2  REPAIR WOOD SURFACE - FIREPLACE
0553403  2  REFINISH REPAIRED WOOD SURFACE-FIREPLACE
0553404  2  REFINISH WOOD SURFACE - FIREPLACE
0553405  2  REPLACE WOOD SURFACE - FIREPLACE
0553406  2  REFINISH REPLACED WOOD SURFACE-FIREPLACE
0554000  FIREBRICK
0554100  2  FIREBRICK, FIREPLACE
0554102  2  REPAIR FIREBRICK - FIREPLACE
0554105  2  REPLACE FIREBRICK - FIREPLACE
0560000  INTERIOR ORNAMENTS
0561000  INTERIOR TRIM
0561100  3  WOOD TRIMMING
0561102  3  REPAIR WOOD TRIM - INTERIOR ORNAMENT
0561103  3  REFIN.REPRD.WOOD TRIM-INTERIOR ORNAMENT
0561104  3  REFINISH WOOD TRIM - INTERIOR ORNAMENT
0561105  3  REPLACE WOOD TRIM - INTERIOR ORNAM..
0561106  3  REFIN.REPLCD.WOOD TRIM-INTERIOR O..  NT
0561200  3  METAL TRIMMING
0561202  3  REPAIR METAL TRIM - INTERIOR ORNAMENT
0561203  3  REFINISH REPAIRED METAL TRIM-INTER.ORNMT
0561204  3  REFINISH METAL TRIM - INTERIOR ORNAMENT
0561205  3  REPLACE METAL TRIM - INTERIOR ORNAMENT
0561206  3  REFIN.REPLC.METAL TRIM-INTERIOR ORNAMENT
0561300  3  TERRAZZO TRIMMING
0561302  3  REPAIR TERRAZZO TRIM - INTERIOR ORNAMENT
0561305  3  REPLACE TERRAZZO TRIM-INTERIOR ORNAMENT
0561400  3  CERAMIC TRIMMING
0561402  3  REPAIR CERAMIC TRIM - INTERIOR ORNAMENT
0561405  3  REPLACE CERAMIC TRIM - INTERIOR ORNAMENT
0561600  3  RUBBER / VINYL TRIMMING
0561602  3  REPAIR RUBBER TRIM - INTERIOR ORNAMENT
0561605  3  REPLACE RUBBER TRIM - INTERIOR ORNAMENT
0570000  INTERIOR STIARS
0571000  RAILINGS
0571100  3  WOOD INTERIOR RAILINGS
0571102  3  REPAIR WOOD RAILING - INTERIOR STAIRS
0571103  3  REFINISH REPAIRED WOOD RAILING INT.STAIR
0571104  3  REFINISH WOOD RAILING - INTERIOR STAIR
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Caces No : Unit of Measure : Description

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0571105  3  REPLACE WOOD RAILING - INTERIOR STAIR
0571106  3  REFIN.REPLC.WOOD RAILING INTERIOR STAIR
0571200  3  METAL INTERIOR RAILINGS
0571202  3  REPAIR METAL RAILING - INTERIOR STAIR
0571203  3  REFIN.REPAIRED METAL RAILING INTER.STAIR
0571204  3  REFINISH METAL RAILING - INTERIOR STAIR
0571205  3  REPLACE METAL RAILING - INTERIOR STAIR
0571206  3  REFIN.REPLACED METAL RAILING INTER.STAIR
0572000 STEPS
0572100  2  CONCRETE INTERIOR STEPS
0572102  2  REPAIR CONCRETE STEPS - INTERIOR STAIR
0572105  2  REPLACE CONCRETE STEPS - INTERIOR STAIR
0572200  2  WOOD INTERIOR STEPS
0572202  2  REPAIR WOOD STEPS -INTERIOR STAIR
0572203  2  REFIN.REPAIRED WOOD STEPS INTERIOR STAIR
0572204  2  REFINISH WOOD STEPS . INTERIOR STAIR
0572205  2  REPLACE WOOD STEPS - INTERIOR STAIR
0572206  2  REFIN.REPLACED WOOD STEPS INTERIOR STAIR
0572300  2  METAL INTERIOR STEPS
0572302  2  REPAIR METAL STEPS - INTERIOR STAIR
0572303  2  REFIN.REPARED.METAL STEPS INTERIOR STAIR
0572304  2  REFINISH METAL STEPS - INTERIOR STAIR
0572305  2  REPLACE METAL STEPS - INTERIOR STAIR
0572306  2  REFIN.REPLACD.METAL STEPS INTERIOR STAIR
0572400  2  MASONRY INTERIOR STEPS (UNPAINTED)
0572402  2  REPAIR MASONRY STEP UNPAINTED INT.STAIR
0572405  2  REPLACED MASONRY STEP UNPAINTD.INT.STAIR
0572500  2  MASONRY INTERIOR STEPS (PAINTED)
0572502  2  REPAIR MASONRY STEPS PAINTED INT.STAIR
0572503  2  REFIN.REPRED.MASONRY STEP PNTD.INT.STAIR
0572504  2  REFINISH MASONRY STEPS PAINTED INT.STAIR
0572505  2  REPLACE MASONRY STEPS PAINTED INT.STAIR
0572506  2  REFIN.REPLCD.MASONRY STEP PNTD INT.STAIR
0572600  2  CARPETED INTERIOR STEPS
0572602  2  REPAIR CARPETED STEPS INTERIOR STAIR
0572605  2  REPLACE CARPETED STEPS INTERIOR STAIR
0580000  INTERIOR HARDWARE
0581000  INTERIOR HINGES
0581100  1  BRASS INTERIOR HINGES
0581105  1  REPLACE BRASS HINGE - INTERIOR HARDWARE
0582000  LOCKSET
0582100  1  BRASS INTERIOR LOCKSET
0582105  1  REPLACE BRASS LOCKSET -INTERIOR HARDWARE
0583000  DOOR CLOSER
0583100  1  BRASS INTERIOR DOOR CLOSER
0583105  1  REPLACE BRASS CLOSER - INTERIOR HARDWARE
0584000  DEAD BOLT
0584100  1  BRASS INTERIOR DEADBOLT
0584105  1  REPLACE BRASS DEADBOLT-INTERIOR HARDWARE
0585000  WEATHERSTRIPPING
0585100  1  BRASS INTERIOR WEATHERSTRIPPING
0585105  1  REPLACE BRASS WEATHER STRIPPING-INT.HDWR
0586000  EXIT BOLT (PANIC BAR)
0586100  1  METAL INTERIOR EXIT BOLT (PANIC BAR)
0586105  1  REPLACE METAL EXITBOLT-INTERIOR HARDWARE

0600000  INTERIOR FINISHES
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Caces No : Unit of Measure : Description

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0610000 WALL FINISHES
0611000 GYPSUM & PLASTER PRODUCTS
0611100 PLASTER WALL FINISH
0611102  2  REPAIR PLASTER WALL FINISHES
0611103  2  REFINISH REPAIRED PLASTER WALL FINISH
0611104  2  REFINISH PLASTER WALL FINISH
0611105  2  REPLACE PLASTER WALL FINISH
0611106  2  REFINISH REPLACED PLASTER WALL FINISH
0611200 SHEETROCK (STIPPLED) WALL FIN.
0611202  2  REPAIR SHEETROCK (STIPPLED) WALL FINISH
0611203  2  REFIN.REPAIRED.SHEETROCK(STIPD)WALL FIN.
0611204  2  REFINISH SHEETROCK(STIPPLED)WALL FINISH
0611205  2  REPLACE SHEETROCK(STIPPLED)WALL FINISH
0611206  2  REFIN.REPLACD.SHEETROCK(STIPLD)WALL FIN.
0611300 SHEETROCK (UNSTIPPLED) WALL FIN.
0611302  2  REPAIR SHEETROCK(UNSTIPPLED)WALL FINISH
0611303  2  REFIN.REPAIR.SHEETROCK(UNSTPLD)WALL FIN.
0611304  2  REFINISH SHEETROCK(UNSTPLD)WALL FINISH
0611305  2  REPLACE SHEETROCK(UNSTPL)WALL FINISH
0611306  2  REFIN.REPLAC.SHEETROCK(UNSTPLD)WALL FIN.
0612000 MASONRY & TILE PRODUCTS
0612100 CLAY BLOCK WALL FINISH
0612102  2  REPAIR CLAY BLOCK WALL FINISH
0612105  2  REPLACE CLAY BLOCK WALL FINISH
0612200 CLAY BLOCK (PAINTED) WALL FINISH
0612202  2  REPAIR CLAY BLOCK (PAINTED) WALL FINISH
0612203  2  REFIN.REPAIR.CLAY BLOCK(PAINTD)WALL FIN.
0612204  2  REFINISH CLAY BLOCK (PAINTED)WALL FINISH
0612205  2  REPLACE CLAY BLOCK (PAINTED) WALL FINISH
0612206  2  REFIN.REPLACED CLAY BLOCK (PAINTED) WALL FIN.
0612300 CONCRETE BLOCK WALL FINISH
0612302  2  REPAIR CONCRETE BLOCK WALL FINISH
0612305  2  REPLACE CONCRETE BLOCK WALL FINISH
0612400 CONCRETE BLOCK (PAINTED) WALL FINISH
0612402  2  REPAIR CONCRETE BLOCK(PAINTED)WALL FIN.
0612403  2  REFIN.REPAIRED.CONC.BLOCK(PAINTD)WALL FIN.
0612404  2  REFINISH CONCRETE BLOCK(PAINTD)WALL FIN.
0612405  2  REPLACE CONCRETE BLOCK(PAINTED)WALL FIN.
0612406  2  REFIN.REPLACED CONC.BLOCK(PNTD)WALL FIN.
0612500 CLAY BRICK WALL FINISH
0612502  2  REPAIR CLAY BRICK WALL FINISH
0612505  2  REPLACE CLAY BRICK WALL FINISH
0612600 CONCRETE BRICK WALL FINISH
0612602  2  REPAIR CONCRETE BRICK WALL FINISH
0612605  2  REPLACE CONCRETE BRICK WALL FINISH
0612700 FIREBRICK WALL
0612702  2  REPAIR FIREBRICK WALL FINISH
0612705  2  REPLACE FIREBRICK WALL FINISH
0612800 CERAMIC TILE WALL FIN.
0612802  2  REPAIR TILE WALL FINISH
0612805  2  REPLACE TILE WALL FINISH
0613000 LIQUID FINISHES
0614000 PAPER, PLASTIC & FABRIC
0614100 FORMICA INTERIOR WALL FIN.
0614102  2  REPAIR FORMICA WALL FINISH
0614105  2  REPLACE FORMICA WALL FINISH
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Caces No : Unit of Measure : Description

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0614200  NYLON INTERIOR WALL FIN.
0614202  2  REPAIR NYLON WALL FINISH
0614205  2  REPLACE NYLON WALL FINISH
0614300  POLYESTER INTERIOR WALL FIN.
0614302  2  REPAIR POLYESTER WALL FINISH
0614305  2  REPLACE POLYESTER WALL FINISH
0614400  VINAL INTERIOR WALL FIN.
0614402  2  REPAIR VINYL WALL FINISH
0614405  2  REPLACE VINYL WALL FINISH
0614500  WALLPAPER INTERIOR WALL FIN.
0614502  2  REPAIR WALLPAPER WALL FINISH
0614505  2  REPLACE WALLPAPER WALL FINISH
0615000  WOOD
0615100  PLYWOOD (PAINTED/STAINED) INT. WALL
0615102  2  REPAIR PLYWOOD(PAINTED)WALL FINISH
0615103  2  REFIN.REPAIRED PLYWOOD(PAINTED)WALL FIN.
0615104  2  REFINISH PLYWOO(PAINTED)WALL FINISH
0615105  2  REPLACE PLYWOOD(PAINTED)WALL FINISH
0615106  2  REFIN.REPLACED PLYWOOD(PAINTED)WALL FIN.
0615200  PLYWOOD (UNPNTED/UNSTAINED) INT. WALL
0615202  2  REPAIR PLYWOOD(UNFINISHED)WALL FINISH
0615205  2  REPLACE PLYWOOD(UNFINISHED)WALL FINISH
0615300  TIMBER (FINISHED) INTERIOR WALL
0615302  2  REPAIR TIMBER(FINISHED)WALL FINISH
0615303  2  REFIN.REPAIRED TIMBER(FINISHED)WALL FIN.
0615304  2  REFINISH TIMBER(FINISHED)WALL FINISH
0615305  2  REPLACE TIMBER (FINISHED) WALL FINISH
0615306  2  REFIN.REPLACED TIMBER(FINISHED)WALL FIN.
0615400  TIMBER (UNFINSHED) INTERIOR WALL
0615402  2  REPAIR TIMBER (UNFINISHED) WALL FINISH
0615405  2  REPLACE TIMBER (UNFINISHED)WALL FINISH
0615500  PANEL (SOLID) INTERIOR WALL
0615502  2  REPAIR PANEL (SOLID) WALL FINISH
0615503  2  REFINISH REPAIRED PANEL(SOLID)WALL FIN.
0615504  2  REFINISH PANEL(SOLID)WALL FINISH
0615505  2  REPLACE PANEL(SOLID)WALL FINISH
0615506  2  REFINISH REPLACED PANEL(SOLID)WALL FIN.
0615600  PANEL (LAMINATED) INTERIOR WALL
0615602  2  REPAIR PANEL(LAMINATED)WALL FINISH
0615603  2  REFIN.REPAIRED PANEL(LAMINATED)WALL FINISH
0615604  2  REFINISH PANEL (LAMINATED)WALL FINISH
0615605  2  REPLACE PANEL (LAMINATED) WALL FINISH
0615606  2  REFIN.REPLACED PANEL(LAMINATED)WALL FIN.
0615700  BOARD (FINISHED) INTER. WALL
0615702  2  REPAIR BOARD (FINISHED) WALL FINISH
0615703  2  REFIN.REPAIRED BOARD(FINISHED)WALL FIN.
0615704  2  REFINISH BOARD (FINISHED) WALL FINISH
0615705  2  REPLACE BOARD (FINISHED) WALL FINISH
0615706  2  REFIN.REPLACED BOARD(FINISHED)WALL FIN.
0615800  BOARD (UNFINISHED) INTER. WALL
0615802  2  REPAIR BOARD (UNFINISHED) WALL FINISH
0615805  2  REPLACE BOARD(UNFINISHED)WALL FINISH
0615900  WAINSCOT INTERIOR WALL
0615902  2  REPAIR WAINSCOT WALL FINISH
0615903  2  REFINISH REPAIRED WAINSCOT WALL FINISH
0615904  2  REFINISH WAINSCOT WALL FINISH
0615905  2  REPLACE WAINSCOT WALL FINISH
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Caces No : Unit of Measure : Description

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0615906  2  REFINISH REPLACED WAINSCOT WALL FINISH
0616000  METAL
0616100  2  ALUMINUM INTERIOR WALL
0616105  2  REPLACE ALUMINUM WALL FINISH
0616200  2  STEEL INTERIOR FINISH (UNPAINTED)
0616202  2  REPAIR STEEL INT.FINISH(UNPNTD)WALL FIN.
0616205  2  REPLACE STEEL INT.FINISH(UNPNT)WALL FIN.
0616300  2  STEEL INTERIOR FINISH (PAINTED)
0616302  2  REPAIR STEEL INT.FINISH(PNTD)WALL FINISH
0616303  2  REFIN.REPRD.STEEL INT.FIN(PNTD)WALL FIN.
0616304  2  REFINISH STEEL INT.FINISH(PNTD)WALL FIN.
0616305  2  REPLACE STEEL INT.FINISH(PNTD)WALL FIN.
0616306  2  REFN.REPLCD.STEEL INT.FIN(PNTD)WALL FIN.
0616400  2  WIRE MESH WALL
0616402  2  REPAIR WIRE MESH WALL FINISH
0616403  2  REFINISH REPAIRED WIRE MESH WALL FINISH
0616404  2  REFINISH WIRE MESH WALL FINISH
0616405  2  REPLACE WIRE MESH WALL FINISH
0616406  2  REFINISH REPLACED WIRE MESH WALL FINISH
0617000  GLASS
0617100  2  GLASS BLOCK INTERIOR WALL
0617102  2  REPAIR GLASS BLOCK WALL FINISH
0617105  2  REPLACE GLASS BLOCK WALL FINISH
0617200  2  PLATE GLASS INTERIOR WALL
0617202  2  REPAIR PLATE GLASS WALL FINISH
0617205  2  REPLACE PLATE GLASS WALL FINISH
0618000  FINISH PACKAGES
0619100  SPECIAL SURFACES
0619100  2  STONE INTERIOR WALL
0619102  2  REPAIR STONE WALL FINISH
0619105  2  REPLACE STONE WALL FINISH
0619200  2  ACOUSTICAL INTERIOR WALL TILE
0619202  2  REPAIR ACOUSTICAL TILE WALL FINISH
0619203  2  REFIN.REPAIRED ACOUSTICAL TILE WALL FIN.
0619204  2  REFINISH ACOUSTICAL TILE WALL FINISH
0619205  2  REPLACE ACOUSTICAL TILE WALL FINISH
0619206  2  REFIN.REPLACED ACOUSTICAL TILE WALL FIN.
0619300  2  CORK INTERIOR WALL TILE
0619302  2  REPAIR CORK TILE WALL FINISH
0619305  2  REPLACE CORK TILE WALL FINISH
061A000  CONCRETE
061A100  2  CONCRETE, UNFINISHED INTERIOR WALL
061A102  2  REPAIR UNFINISHED CONCRETE WALL FINISH
061A105  2  REPLACE UNFINISHED CONCRETE WALL FINISH
061A200  2  CONCRETE, FINISHED INTERIOR WALL
061A202  2  REPAIR FINISHED CONCRETE WALL FINISH
061A204  2  REFINISH FINISHED CONCRETE WALL FINISH
061A205  2  REPLACE FINISHED CONCRETE WALL FINISH
0620000  FLOORING & FLOOR FINISHES
0621000  GYPSUM AND PLASTER PRODUCTS
0622000  MASONRY & TILE PRODUCTS
0622100  2  CERAMIC TILE FLOORING
0622101  2  MINOR REPAIRS TO CERAMIC TILE FLOOR
0622102  2  REPLACE CERAMIC TILE FLOOR
0622200  2  QUARRY TILE FLOORING
0622201  2  MINOR REPAIRS TO QUARRY TILE FLOOR
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Caces No : Unit of Measure : Description

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0622202  2  REPLACE QUARRY TILE FLOOR
0622300  2  BRICK FLOORING
0622301  2  MINOR REPAIRS TO BRICK FLOOR
0622302  2  REPLACE BRICK FLOORING
0623000  LIQUID FINISHES
0624000  PAPER, PLASTIC & FABRIC
0625000  WOOD
0625100  2  WOOD PARTQUETRY FLOORING
0625101  2  MINOR REPAIRS TO WOOD PARQUETRY FLOOR
0625102  2  SAND AND REFINISH PARQUETRY FLOOR
0625103  2  REPLACE WOOD PARQUETRY FLOOR
0625200  2  MAPLE FLOOR
0625201  2  MINOR REPAIRS TO MAPLE FLOOR
0625202  2  SAND AND REFINISH MAPLE FLOOR
0625203  2  REPLACE MAPLE FLOOR
0625300  2  PLYWOOD FLOOR
0625301  2  MINOR REPAIRS TO PLYWOOD FLOOR
0625302  2  REPLACE PLYWOOD FLOOR
0626000  METAL FLOOR FINISHES
0626100  2  STEEL FLOORING
0626101  2  MINOR REPAIRS TO STEEL FLOOR
0626102  2  REPLACE STEEL DECK FLOORING
0627000  GLASS
0628000  FINISH PACKAGES
0629100  SPECIAL SURFACES
0629100  2  CARPET FLOOR
0629101  2  MINOR REPAIRS TO CARPET
0629102  2  REPLACE CARPET
0629200  2  CORK TILE FLOORING
0629201  2  MINOR REPAIR TO CORK TILE FLOORING
0629202  2  REPLACE CORK TILE FLOORING
062A000  SYNTHETIC FLOORING FINISHES
062A100  2  LINOLEUM FLOORING
062A101  2  MINOR REPAIRS TO LINOLEUM FLOOR
062A102  2  REPLACE LINOLEUM FLOOR
062A200  2  VINYL ASBESTOS TILE FLOORING
062A201  2  MINOR REPAIRS TO VINYL ASB.TILE FLOORING
062A202  2  REPLACE VINYL ASBESTOS TILE FLOORING
062A300  2  RUBBER TILE FLOORING
062A301  2  MINOR REPAIRS TO RUBBER TILE FLOOR
062A302  2  REPLACE REPLACE RUBBER TILE FLOORING
062A400  2  VINYL SHEET FLOORING
062A401  2  MINOR REPAIR VINYL SHEET FLOORING
062A402  2  REPLACE VINYL SHEET FLOORING
062A500  2  BITUMINOUS FLOORING
062A501  2  MINOR REPAIR TO BITUMINOUS FLOORING
062A502  2  REPLACE BITUMINOUS FLOORING
062B000  CONCRETE FLOORING FINISHES
062B100  2  CONCRETE, UNFINISHED FLOORING
062B101  2  MINOR REPAIRS TO CONCRETE FLOOR
062B102  2  REPLACE UNFINISHED CONCRETE FLOOR
062B200  2  CONCRETE, FINISHED FLOORING
062B201  2  MINOR REPAIRS TO FINISHED CONCRETE FLOOR
062B202  2  REFINISH CONCRETE FLOOR
062B203  2  REPLACE FINISHED CONCRETE FLOOR
062C000  TERRAZZO
062C001  2  MINOR REPAIRS TO TERRAZZO FLOOR
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Caces No : Unit of Measure : Description

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0636100    2   METAL CEILING (PAINTED)
0636102    2   REPAIR ALUMINIUM PANEL CEILING FINISH
0636103    2   REFIN.REPRD.ALUMINIUM PANEL CEILING FIN.
0636104    2   REFINISH ALUMINIUM PANEL CEILING FINISH
0636105    2   REPLACE ALUMINIUM PANEL CEILING FINISH
0636106    2   REFIN.REPLCD.ALUMINIUM PANEL CEILG. FIN.
0637000        GLASS
0638000        FINISH PACKAGES
0639000        SPECIAL SURFACES
0639100    2   ACOUSTICAL TILE-SPECIAL PURPOSE
0639102    2   REPAIR SPECL.PURP.ACOUSTIC.TILE CLG.FIN.
0639105    2   REPLACE SPEC.PURP.ACOUSTIC.TILE CLG.FIN.
0639200    2   ACOUSTICAL TILE-TIME DESIGN RATED
0639202    2   REPAIR ACOUSTIC(FIRE RATED)TILE CLG.FIN.
0639205    2   REPLACE ACOUSTIC(FIRE RATE)TILE CLG.FIN.
063A000        CONCRETE
063A100    2   CONCRETE, UNFINSHED CEILING
063A102    2   REPAIR (UNFINISHED)CONCRETE CEILING FIN.
063A105    2   REPLACE(UNFINISHED)CONCRETE CEILING FIN.
063A200    2   CONCRETE, FINISHED CEILING
063A202    2   REPAIR (FINISHED)CONCRETE CEILING FIN.
063A204    2   REFINISH (FINISHED)CONCRETE CEILING FIN.
063A205    2   REPLACE (FINISHED) CONCRETE CEILING FIN.

0800000   PLUMBING
0810000   SANITARY SYSTEM
0811000   FIXTURES
0811100    1   TANKLESS WATER CLOSET
0811101    1   REPLACE FLUSH VALVE
0811102    1   UNPLUG CLOGGED LINE
0811103    1   REPLACE WATER CLOSET
0811200    1   FLUSH TANK WATER CLOSET
0811201    1   UNPLUG CLOGGED LINE
0811202    1   REPLACE WASHER IN BALL COCK
0811203    1   REPLACE WORN PARTS IN WATER CLOSET.
0811204    1   INSTALL GASKET IN SPUD CONNECTION.
0811205    1   REPLACE WATER CLOSET.
0811300    1   URINAL
0811301    1   REPLACE FLUSH VALVE
0811302    1   UNPLUG LINE
0811303    1   REPLACE URNIAL
0811400    1   LAVATORY, IRON, ENAMEL
0811401    1   REPLACE WASHER IN SPUD CONNECTION
0811402    1   REPLACE WASHER IN FAUCET
0811403    1   REPLACE SUPPORT RODS
0811404    1   REPLACE FAUCETS
0811405    1   CLEAN OUT STRAINER AND P TRAP
0811406    1   REPLACE LAVATORY
0811500    1   LAVATORY, VITREOUS CHINA
0811501    1   REPLACE WASHER IN SPUD CONNECTION
0811502    1   REPLACE WASHER IN FAUCET
0811503    1   REPLACE SUPPORT RODS
0811504    1   REPLACE FAUCETS
0811505    1   CLEAN OUT STRAINER AND P TRAP
0811506    1   REPLACE LAVATORY
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Caces No : Unit of Measure : Description

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0632C002   2   REPLACE TERRAZZO FLOOR
0630000   CEILINGS & CEILING FINISHES
0631000   GYPSUM AND PLASTER PRODUCTS
0631100    2   PLASTER CEILING
0631102    2   REPAIR PLASTER CEILING FINISH
0631103    2   REFINISH REPAIRED PLASTER CEILING FINISH
0631104    2   REFINISH PLASTER CEILING FINISH
0631105    2   REPLACE PLASTER CEILING FINISH
0631106    2   REFINISH REPLACED PLASTER CEILING FINISH
0631200    2   SHEETROCK (STIPPLED) CEILING
0631202    2   REPAIR SHEETROCK(STIPPLED)CEILING FINISH
0631203    2   REFIN.REPAIRED SHEETROCK(STIPLD)CLG.FIN.
0631204    2   REFINISH SHEETROCK(STIPPLED)CEILING FIN.
0631205    2   REPLACE SHEETROCK(STIPPLED)CEILING FIN.
0631206    2   REFIN.REPLACED SHEETROCK(STPLD)CLG.FIN.
0631300    2   SHEETROCK (UNSTIPPLED) CEILING
0631302    2   REPAIR SHEETROCK(UNSTIPPLED)CEILING FIN.
0631303    2   REFIN.REPRD.SHEETROCK(UNSTPLD)CEILG.FIN.
0631304    2   REFINISH SHEETROCK(UNSTIPPLED)CEILG.FIN.
0631305    2   REPLACE SHEETROCK(UNSTIPPLD)CEILING FIN.
0631306    2   REFIN.REPLCD.SHEETROCK(UNSTPLD)CLG.FIN.
0632000   MASONRY & TILE PRODUCTS
0632100    2   ACOUSTICAL TILE CEILING
0632102    2   REPAIR ACOUSTIC TILE CEILING FINISH
0632105    2   REPLACE ACOUSTIC TILE CEILING FINISH
0632200    2   ACOUSTICAL TILE (DROPPED) CEILING
0632202    2   REPAIR ACOUSTIC TILE(DROPPD)CEILING FIN.
0632205    2   REPLACE ACOUSTIC TILE(DROPPED)CEILG.FIN.
0632300    2   CERAMIC PAN CEILING
0632302    2   REPAIR CERAMIC (PAN) CEILING FINISH
0632305    2   REPLACE CERAMIC (PAN) CEILING FINISH
0632400    2   CERAMIC TILE CEILING
0632402    2   REPAIR CERAMIC (TILE) CEILING FINISH
0632405    2   REPLACE CERAMIC (TILE) CEILING FINISH
0633000   LIQUID FINISHES
0634000   PAPER, PLASTIC & FABRIC
0634100    2   PAPER CEILING
0634102    2   REPAIR PAPER CEILING FINISH
0634105    2   REPLACE PAPER CEILING FINISH
0634200    2   PLASTIC CEILING
0634202    2   REPAIR PLASTIC CEILING FINISH
0634205    2   REPLACE PLASTIC CEILING FINISH
0634300    2   FABRIC CEILING
0634302    2   REPAIR FABRIC CEILING FINISH
0634305    2   REPLACE FABRIC CEILING FINISH
0635000   WOOD
0635100    2   WOOD FINISHED CEILING
0635102    2   REPAIR WOOD (FINISHED) CEILING FINISH
0635103    2   REFIN.REPAIRD.WOOD(FINISHED)CEILING FIN.
0635104    2   REFINISH WOOD(FINISHED)CEILING FIN.
0635105    2   REPLACE WOOD(FINISHED)CEILING FINISH
0635106    2   REFIN.REPLCED.WOOD(FINISHED)CEILING FIN.
0635200    2   WOOD UNFINSHED CEILING
0635202    2   REPAIR WOOD (UNFINISHED) CEILING FINISH
0635205    2   REPLACE WOOD(UNFINISHED)CEILING FINISH
0636000   METAL
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Code	UM	Description
0811600	1	LAVATORY, ENAMELED STEEL
0811601	1	REPLACE WASHER IN SPUD CONNECTION
0811602	1	REPLACE WASHER IN FAUCET
0811603	1	REPLACE SUPPORT RODS
0811604	1	REPLACE FAUCETS
0811605	1	CLEAN OUT STRAINER AND P TRAP
0811606	1	REPLACE LAVATORY
0811700	1	BATH TUB, CAST IRON
0811701	1	INSPECT/CLEAN SHOWER HEAD
0811702	1	REPLACE FAUCET WASHER
0811703	1	REPLACE FAUCETS
0811704	1	RESEAL
0811705	1	REPAIR DIVERTER VALVE
0811706	1	UNSTOP
0811707	1	REPLACE TUB
0811800	1	BATH TUB, ENAMELED STEEL
0811801	1	INSPECT/CLEAN SHOWER HEAD
0811802	1	REPLACE FAUCET WASHER
0811803	1	REPLACE FAUCETS
0811804	1	RESEAL
0811805	1	REPAIR DIVERTER VALVE
0811806	1	UNSTOP
0811807	1	REPLACE TUB
0811900	1	SHOWER, TERRAZO
0811901	1	INSPECT/CLEAN SHOWER HEAD
0811902	1	REPLACE FAUCET WASHER
0811903	1	REPLACE FAUCETS
0811904	1	RESEAL
0811905	1	UNSTOP
0811906	1	REPLACE SHOWER
0811A00	1	SHOWER, ENAMELED STEEL
0811A01	1	INSPECT/CLEAN SHOWER HEAD
0811A02	1	REPLACE FAUCET WASHER
0811A03	1	REPLACE FAUCETS
0811A04	1	RESEAL
0811A05	1	UNSTOP
0811A06	1	REPLACE SHOWER
0811B00	1	SHOWER, PLASTIC
0811B01	1	INSPECT/CLEAN SHOWER HEAD
0811B02	1	REPLACE FAUCET WASHER
0811B03	1	REPLACE FAUCETS
0811B04	1	RESEAL
0811B05	1	UNSTOP
0811B06	1	REPLACE SHOWER AND FITTINGS
0811C00	1	SHOWER, ALUMINUM
0811C01	1	INSPECT/CLEAN SHOWER HEAD
0811C02	1	REPLACE FAUCET WASHER
0811C03	1	REPLACE FAUCETS
0811C04	1	RESEAL
0811C05	1	UNSTOP
0811C06	1	REPLACE SHOWER AND FITTINGS
0811D00	1	SINK, IRON ENAMEL
0811D01	1	REPLACE FAUCET WASHER
0811D02	1	CLEAN TRAP
0811D03	1	REPLACE FAUCETS
0811D04	1	UNSTOP
0811D05	1	REPAIR STRAINER

Code	UM	Description
0811D06	1	REPLACE SINK
0811E00	1	SINK, ENAMELED STEEL
0811E01	1	REPLACE FAUCET WASHER
0811E02	1	CLEAN TRAP
0811E03	1	REPLACE FAUCETS
0811E04	1	UNSTOP
0811E05	1	REPAIR STRAINER
0811E06	1	REPLACE SINK
0811F00	1	SINK, STAINLESS STEEL
0811F01	1	REPLACE FAUCET WASHER
0811F02	1	CLEAN TRAP
0811F03	1	REPLACE FAUCETS
0811F04	1	UNSTOP
0811F05	1	REPAIR STRAINER
0811F06	1	REPLACE SINK
0811G00	1	SINK, PLASTIC
0811G01	1	REPLACE FAUCET WASHER
0811G02	1	CLEAN TRAP
0811G03	1	REPLACE FAUCETS
0811G04	1	UNSTOP
0811G05	1	REPAIR STRAINER
0811G06	1	REPLACE SINK AND FITTINGS
0811H00	1	DRINKING FOUNTAIN
0811H01	1	CHECK/MINOR REPAIRS
0811H02	1	REPAIR INTERNAL LEAKS
0811H03	1	CORRCET WATER PRESSURE
0811H04	1	REPLACE FREON
0811H05	1	REPAIR DRAIN LEAK
0811H06	1	UNSTOP DRAIN
0811H07	1	REPLACE FOUNTAIN
0811J00	4	SPIGOT
0812000 WASTE	4	& VENT
0812100	4	PIPE & FITTINGS
0812101	4	UNCLOG FLOOR DRAIN
0812102	4	UNCLOG MAIN DRAIN
0812103	4	REPLACE PIPE & FITTINGS
0812200	1	FLOOR DRAIN, WITHOUT BUCKET
0812201	1	CLEAN DRAIN
0812202	1	REPLACE STRAINER
0812203	1	REPLACE FLOOR DRAIN
0812300	1	FLOOR DRAIN, WITH BUCKET
0812301	1	CLEAN OUT BUCKET
0812302	1	REPLACE STRAINER
0812303	1	REPLACE FLOOR DRAIN
0813000 COLD	4	WATER
0813100	4	PIPE & FITTINGS, STEEL OR CAST IRON
0813101	4	INSTALL NEW GASKET
0813102	4	REPLACE 10 FT. SECTION
0813103	4	REPLACE PIPE AND FITTINGS
0813200	4	PIPE & FITTINGS, COPPER
0813201	4	RESOLDER JOINT
0813202	4	INSTALL 10 FT SECTION
0813203	4	REPLACE PIPE AND FITTINGS
0813300	1	VALVE, NON-DRAIN 3/8" - 1 1/2"
0813301	1	REPACK GLAND
0813302	1	REPLACE OLD VALVE WITH NEW, PARTIAL
0813400	1	VALVE, NON-DRAIN 2"-3"

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0813401	1	REPACK GLAND
0813402	1	REPLACE OLD VALVE WITH NEW, PARTIAL
0813500	1	VALVE, NON-DRAIN 4"-6"
0813501	1	REPACK GLAND
0813502	1	REMOVE OLD VALVE INSTALL NEW, PARTIAL
0813600	1	VALVE DRAIN
0813601	1	REPACK GLAND
0813602	1	REPLACE VALVE STEM ASSEMBLY
0813603	1	REMOVE OLD VALVE, INSTALL NEW
0813700	1	EXPANSION CHAMBER
0813701	1	REFILL
0813702	1	REMOVE OLD CHAMBER INSTALL NEW
0813800	1	WATER METER
0813801	1	OVERHAUL
0813802	1	REMOVE OLD METER INSTALL NEW
0813900	4	INSULATION, PIPE
0813901	1	REPAIR BROKEN INSULATION
0813902	4	REMOVE OLD INSULATION & REPLACE WITH NEW
0813A00	1	CIRCULATOR PUMP 1 1/2 HP
0813A01	1	OVERHAUL PUMP, REPLACE SEALS
0813A02	1	INSPECT/CHECK PUMP/MOTOR OPERATION, LUBR
0813A03	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0813800	1	CIRCULATOR PUMP 1/6 HP
0813B01	1	OVERHAUL PUMP, REPLACE SEALS
0813B02	1	INSPECT/CHECK PUMP/MOTOR OPERATION, LUBR
0813B03	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0813C00	1	CIRCULATOR PUMP 1/2 HP
0813C01	1	OVERHAUL PUMP, REPLACE SEAL OR BEARING
0813C02	1	INSP/CHECK PUMP/MOTOR OPER, LUBR,CHECK A
0813C03	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0814000		HOT WATER
0814100	4	PIPE & FITTINGS, STEEL OR CAST IRON
0814101	4	INSTALL NEW GASKET
0814102	4	INSTALL 10 FT. SECTION
0814103	4	REPLACE PIPE AND FITTINGS
0814200	4	PIPE & FITTINGS, COPPER
0814201	4	RESOLDER JOINT
0814202	4	INSTALL 10 FT. SECTION
0814203	4	REPLACE PIPE AND FITTINGS
0814300	1	VALVE, NON DRAIN 3/8"-1 1/2"
0814301	1	REPACK GLAND
0814302	1	REPLACE OLD VALVE WITH NEW, PARTIAL
0814400	1	VALVE, NON DRAIN 2"-3"
0814401	1	REPACK GLAND
0814402	1	REPLACE OLD VALVE WITH NEW, PARTIAL
0814500	1	VALVE, NON DRAIN 4"-6"
0814501	1	REPACK GLAND
0814502	1	REMOVE OLD VALVE INSTALL NEW, PARTIAL
0814600	1	VALVE DRAIN
0814601	1	REPACK GLAND
0814602	1	REPLACE VALVE STEM ASSEMBLY
0814603	1	REMOVE OLD VALVE, INSTALL NEW
0814700	1	EXPANSION CHAMBER
0814701	1	REFILL
0814702	1	REMOVE OLD CHAMBER INSTALL NEW
0814800	4	INSULATION, PIPE
0814801	1	REPAIR BROKEN INSULATION

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0814802	4	REMOVE OLD INSULATION & REPLACE WITH NEW
0814900	1	CIRCULATOR PUMP, 1 1/2 HP
0814901	1	OVERHAUL PUMP, REPLACE SEALS
0814902	1	INSPECT/CHECK PUMP/MOTOR OPERATION, LUBR
0814903	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0814A00	1	CIRCULATOR PUMP, 1/6 HP
0814A01	1	OVERHAUL PUMP, REPLACE SEALS
0814A02	1	INSPECT/CHECK PUMP/MOTOR OPERATION, LUBR
0814A03	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0814800	1	CIRCULATOR PUMP, 1/2 HP
0814B01	1	OVERHAUL PUMP, REPLACE SEAL OR BEARING
0814B02	1	INSPT/CHECK PUMP/MOTOR OPER, LUBR,CHECK
0814B03	1	REPLACE PUMP/MOTOR ASSEMBLY, PARTIAL
0814C00	1	STEAM CONVERTOR, DOMESTIC HOT WATER
0814C01	1	REPAIR STEAM LEAK
0814C02	1	INSPECT FOR LEAKS,
0814C03	1	REPLACE STEAM CONVERTER
0814D00	1	HOT WATER HTR, GAS/OIL 30 GAL
0814D01	1	CLEAN AND SERVICE
0814D03	1	REPLACE HOT WATER HEATER
0814E00	1	HOT WATER HTR, GAS/OIL 75 GAL
0814E01	1	OVERHAUL HEATER
0814E02	1	CLEAN & SERVICE
0814E03	1	REPLACE HOT WATER HEATER
0814F00	1	HOT WATER HTR, GAS/OIL 1000 GPH RECOVERY
0814F01	1	MINOR REPAIRS, ADJUSTMENTS
0814F02	1	CLEAN & SERVICE
0814F03	1	REPLACE HOT WATER HEATER
0814G00	1	HOT WATER HTR, GAS/OIL 8-120GPH RECOVERY
0814G01	1	DRAIN & FLUSH
0814G02	1	CHECK OPERATION
0814G03	1	REPLACE HEATER
0814H00	1	HOT WATER HEATER ELEC. 120 GAL.
0814H01	1	DRAIN AND FLUSH HOT WATER HTR.
0814H02	1	CHECK OPERATION-HOT WATER HTR.
0814H03	1	REPLACE HOT WATER HEATER
0814100	1	HOT WATER HEATER ELEC. 300 GAL.
0814101	1	DRAIN AND FLUSH HOT WATER HTR.
0814102	1	CHECK OPERATION-HOT WATER HTR.
0814103	1	REPLACE HOT WATER HEATER
0814J00	1	HOT WATER HEATER ELEC. 1000 GAL.
0814J01	1	DRAIN AND FLUSH HOT WATER HTR.
0814J02	1	CHECK OPERATION-HOT WATER HTR.
0814J03	1	REPLACE HOT WATER HEATER
0814K00	1	HOT WATER HEATER ELEC. 2000 GAL.
0814K01	1	DRAIN AND FLUSH HOT WATER HTR.
0814K02	1	CHECK OPERATION-HOT WATER HTR.
0814K03	1	REPLACE HOT WATER HEATER
0820000		RAIN WATER
0821000		FIXTURES, RAIN WATER
0821100	1	DRAIN, ROOF SCUPPER, AREA
0821101	1	GENERAL MAINTENANCE AND REPAIR
0821103	1	REPLACE DRAIN
0822000		DRAINAGE, RAIN WATER
0822100	4	DISTRIBUTION, GUTTERS, PIPE
0822101	4	GENERAL MAINTENANCE & REPAIR

Caces No : Unit of Measure : Description

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0822102  4  REPLACE PIPE OR GUTTER
0830000     SPECIAL PLUMBING SYSTEM
0831000     COMPRESSED AIR
0831100  1  SIMPLE COMPRESSED AIR
0831110  1  1 H.P.
0831111  1  CHECK AND ADJUST
0831112  1  REPAIR COMPRESSER
0831113  1  REPLACE COMPRESSER
0831200  1  HOSE, COMPRESSED AIR
0831210  1  RUBBER
0831211  1  REPLACE RUBBER HOSE
0831300  4  PIPE AND FITTINGS FOR COMPRESSED AIR
0831310  4  METAL PIPE
0831311  4  GENERAL MAINTENANCE
0831312  4  REPLACE PIPE AND FITTINGS 10 FT.
0831313  4  REPLACE PIPE AND FITTINGS
0832000     INDUSTRIAL GASES
0832100  1  SIMPLE GAS COMPRESSER
0832110  1  1 H.P.
0832111  1  CHECK AND ADJUST
0832112  1  REPAIR COMPRESSER
0832113  1  REPLACE COMPRESSER
0832200  1  HOSE, INDUSTRIAL GAS
0832210  1  RUBBER
0832211  1  REPLACE RUBBER HOSE
0832300  4  PIPE AND FITTINGS FOR INDUST. GAS
0832310  4  METAL PIPE
0832311  4  GENERAL MAINTENANCE
0832312  4  REPLACE PIPE AND FITTINGS 10 FT.
0832313  4  REPLACE PIPE AND FITTINGS
0840000     SPECIAL PLUMBING FIXTURE
0841000     KITCHEN PLUMBING FIXTURE
0841100  1  DISHWASHER
0841101  1  GENERAL MAINTENANCE AND REPAIR.
0841102  1  REPLACE UNIT.
0841200  1  WASTE DISPOSAL, RESIDENTIAL
0841201  1  UNSTOP
0841202  1  REPLACE UNIT.
0900000     HEATING, VENTILATION AND AIRCONDITIONING
0910000     NATURAL GAS SYSTEMS
0911000     EQUIPMENT/METERS/REGULATORS, NAT. GAS
0911100  1  GAS METER
0911101  1  REPLACE/REPLACE METER
0912000     PIPING SYSTEMS, NATURAL GAS SYS.
0920000     FUEL OIL SYSTEMS
0921000     STORAGE SYSTEMS, FUEL OIL SYS.
0922000     TRANSFER SYSTEMS, FUEL OIL SYS.
0923000     DISTRIBUTION SYSTEMS, FUEL OIL SYS.
0930000     LPG SYSTEMS
0931000     STORAGE SYSTEMS, LPG SYS.
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Caces No : Unit of Measure : Description

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0932000     TRANSFER SYSTEMS, LPG SYS.
0933000     DISTRIBUTION SYSTEMS, LPG SYS.
0940000     STEAM (SUPPLIED FROM CENTRAL)
0941000     PRESSURE REDUCING REG. SYS., STEAM SYS.
0941300  1  STEAM REGULATION VALVE - 2"
0941301  1  REPLACE STEAM REGUL. VALVE-2"
0941500  1  COND.METER,<300#/HR
0941501  1  M/R, REPAIR METER
0941502  1  PM, PREVENTATIVE MAINTENANCE CLEANING
0941503  1  REPLACE/ REPLACE METER
0942000     DISTRIBUTION SYSTEMS, STEAM SYS.
0942100  1  RADIATOR VALVE 1"
0942101  1  REPLACE RADIATOR VALVE - 1"
0950000     CHILLED WATER (SUPPLIED FROM CENTRAL)
0960000     SOLAR SYSTEMS
0961000     EQUIPMENT, SOLAR SYSTEMS
0962000     PIPING, SOLAR SYSTEMS
0970000     OTHER GENERATION SYSTEMS
0980000     HEATING GENERATION SYSTEMS
0981000     EQUIPMENT, HEATING GENERATION
0981100  1  BOILER (GAS)
0981110  1  250 BTU
0981111  1  REPAIR BOILER
0981112  1  PREVENTIVE MAINTENANCE - ANNUAL INSP.
0981113  1  PREVENTIVE MAINTENANCE - EXTERNAL INSP.
0981114  1  PREVENTIVE MAINT. - CLEAN FIRE BOX
0981115  1  PREVENTIVE MAINT. - WEEKLY TOUR
0981116  1  REPLACE BOILER
0981120  1  2000 BTU
0981121  1  REPAIR BOILER
0981122  1  PREVENTIVE MAINT. - ANNUAL INSPECTION
0981123  1  PREVENTIVE MAINT. - EXTERNAL INSP.
0981124  1  PREVENTIVE MAINT. - CLEAN FIRE BOX
0981125  1  PREVENTIVE MAINT. - CLEAN TUBES
0981126  1  PREVENTIVE MAINT. - WEEKLY TOUR
0981127  1  REPLACE BOILER
0981130  1  10000 BTU
0981131  1  REPAIR BOILER
0981132  1  PREVENTIVE MAINT. - ANNUAL INSP.
0981133  1  PREVENTIVE MAINT. - EXTERNAL INSP.
0981134  1  PREVENTIVE MAINT. - CLEAN FIRE BOX
0981135  1  PREVENTIVE MAINT. - CLEAN TUBES
0981136  1  PREVENTIVE MAINT. - WEEKLY TOUR
0981137  1  REPLACE BOILER
0981200     BOILER (COAL)
0981210  1  40000 BTU
0981211  1  REPAIR BOILER
0981212  1  PREVENTIVE MAINT. - ANNUAL
0981213  1  PREVENTIVE MAINT. - EXTERNAL INSP.
0981214  1  PREVENTIVE MAINT. - WEEKLY TOUR
0981215  1  REPLACE BOILER
0981220  1  100000 BTU
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Caces No : Unit of Measure : Description

0981221	1	REPAIR BOILER
0981222	1	PREVENTIVE MAINT. - ANNUAL
0981223	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981224	1	PREVENTIVE MAINT. - WEEKLY TOUR
0981225	1	REPLACE BOILER
0981300	1	BOILER (OIL)
0981310	1	250 BTU
0981311	1	REPAIR BOILER
0981312	1	PREVENTIVE MAINT. - ANNUAL INSP.
0981313	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981314	1	PREVENTIVE MAINT. - WEEKLY TOUR
0981315	1	PREVENTIVE MAINT. - CLEAN BURNER
0981316	1	REPLACE BOILER
0981320	1	2000 BTU
0981321	1	REPAIR BOILER
0981322	1	PREVENTIVE MAINT. - ANNUAL INSP.
0981323	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981324	1	PREVENTIVE MAINT. - WEEKLY TOUR
0981325	1	PREVENTIVE MAINT. - CLEAN BURNER
0981326	1	REPLACE BOILER
0981330	1	10000 BTU
0981331	1	REPAIR BOILER
0981332	1	PREVENTIVE MAINT. - ANNUAL INSP.
0981333	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981334	0	PREVENTIVE MAINT. - WEEKLY TOUR
0981335	1	PREVENTIVE MAINT. - CLEAN BURNER
0981336	1	REPLACE BOILER
0981400	1	BOILER DUAL FIRED
0981410	1	2000 BTU
0981411	1	REPAIR BOILER
0981412	1	PREVENTIVE MAINT. - ANNUAL
0981413	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981414	1	PREVENTIVE MAINT. - WEEKLY TOUR
0981415	1	REPLACE BOILER
0981420	1	20000 BTU
0981421	1	REPAIR BOILER
0981422	1	PREVENTIVE MAINT. - ANNUAL INSP.
0981423	1	PREVENTIVE MAINT. - EXTERNAL INSP.
0981424	1	PREVENTIVE MAINT. - WEEKLY TOUR
0981425	1	REPLACE BOILER
0981500	1	BOILER PNEUMATIC COAL SPREADER
0981510	1	BOILER PNEUMATIC COAL SPREADER
0981511	1	REPAIR SPREADER
0981512	1	PREVENTIVE MAINT. - DAILY TOUR
0981513	1	PREVENTIVE MAINT. - WEEKLY
0981514	1	PREVENTIVE MAINT. - MONTHLY
0981515	1	PREVENTIVE MAINT. - ANNUAL
0981600	1	ASH HANDLING SYSTEM
0981610	1	ASH HANDLING SYSTEM
0981611	1	REPAIR SYSTEM
0981612	1	PREVENTIVE MAINT. - DAILY
0981613	1	PREVENTIVE MAINT. - MONTHLY
0981614	1	PREVENTIVE MAINT. - ANNUAL
0981615	1	REPLACE ASH HANDLING SYSTEM
0981700	1	FUEL OIL EQUIPMENT
0981710	1	FUEL OIL EQUIPMENT
0981711	1	REPAIR FUEL OIL EQUIPMENT

Caces No : Unit of Measure : Description

0981712	1	PREVENTIVE MAINTENANCE
0981713	1	REPLACE FUEL OIL EQUIPMENT
0981800	1	CHEMICAL FEED SYSTEM
0981810	1	CHEMICAL FEED SYSTEM
0981811	1	REPAIR CHEMICAL FEED
0981812	1	PREVENTIVE MAINTENANCE
0981813	1	REPLACE CHEMICAL FEEDER
0981900	1	FEED WATER SUPPLY
0981910	1	FEEDWATER SUPPLY
0981911	1	REPAIR FEED WATER SUPPLY PUMP
0981912	1	PREVENTIVE MAINTENANCE
0981913	1	REPLACE FEEDWATER PUMP
0981A00	1	DEAERATOR
0981A10	1	DEAERATOR
0981A11	1	REPAIR DEAERATOR
0981A12	1	PREVENTIVE MAINTENANCE
0981A13	1	REPLACE DEAERATOR
0981B00	1	BLOWOFF SYSTEM
0981B10	1	BLOWOFF SYSTEM
0981B11	1	REPAIR BOILER BLOWOFF SYSTEM
0981B12	1	REPLACE BOILER BLOWOFF SYSTEM
0981C00	1	HOUSE FURNACE (GAS)
0981C10	1	25 KBTU
0981C11	1	REPAIR FURNACE
0981C12	1	PREVENTIVE MAINTENANCE
0981C13	1	REPLACE FURNACE
0981C20	1	100 KBTU
0981C21	1	REPAIR FURNACE
0981C22	1	PREVENTIVE MAINTENANCE
0981C23	1	REPLACE FURNACE
0981C30	1	200 KBTU
0981C31	1	REPAIR FURNACE
0981C32	1	PREVENTIVE MAINTENANCE
0981C33	1	REPLACE FURNACE
0981D00	1	HOUSE FURNACE (OIL)
0981D10	1	25 KBTU
0981D11	1	REPAIR FURNACE
0981D12	1	PREVENTIVE MAINTENANCE
0981D13	1	REPLACE FURNACE
0981D20	1	100 KBTU
0981D21	1	REPAIR FURNACE
0981D22	1	PREVENTIVE MAINTENANCE
0981D23	1	REPLACE FURNACE
0981D30	1	200 KBTU
0981D31	1	REPAIR FURNACE
0981D32	1	PREVENTIVE MAINTENANCE
0981D33	1	REPLACE FURNACE
0981E00	1	HOUSE FURNACE (ELECTRIC)
0981E10	1	25 KBTU
0981E11	1	REPAIR FURNACE
0981E12	1	PREVENTIVE MAINTENANCE
0981E13	1	REPLACE FURNACE
0981E20	1	100 KBTU
0981E21	1	REPAIR FURNACE
0981E22	1	PREVENTIVE MAINTENANCE
0981E23	1	REPLACE FURNACE
0981E30	1	200 KBTU

Ceces No : Unit of Measure : Description

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0981E31   1   REPAIR FURNACE
0981E32   1   PREVENTIVE MAINTENANCE
0981E33   1   REPLACE FURNACE
0981F00       RADIATOR, CAST IRON 10' SEC.
0981F01   1   REPLACE RADIATOR CAST IRON
0981G00   1   RADIATOR, BASEBOARD 10' SEC.
0981G01   1   REPLACE RADIATOR, BASEBOARD
0981H00   1   RADIATOR, FINNED WALL 10' SEC.
0981H01   1   REPLACE WALL RADIATOR, FINNED
0981I00   1   EXPANSION TANK
0981I01   1   REFILL EXPANSION TANK
0981I02   1   REPLACE EXPANSION TANK
0981J00   1   STEAM CONVERTOR, <300,000
0981J10   1   STEAM CONVERTOR, <300,000
0981J11   1   REPAIR STEAM CONVERTOR
0981J12   1   INSPECT FOR LEAKS
0981J13   1   REPLACE STEAM CONVERTOR
0981K00   1   FLASH TANK
0981K10   1   FLASH TANK
0981K11   1   REPAIR FLASH TANK
0981K12   1   PREVENTIVE MAINTENANCE
0981K13   1   REPLACE FLASH TANK
0982000       FIXTURES, HEATING GENERATION
0983000       INTERCONNECTING PIPING SYSTEM, HEAT GEN.
0984000       DISTRIBUTION PIPING SYSTEM, HEAT GEN.
0984100   4   PIPE/FITTINGS
0984110   4   PIPE/FITTINGS, ST.&CP
0984111   4   M/R, REPAIR HOT WATER PIPE
0984112   4   REPLACE/ REPLACE HOT WATER PIPE, 12' SEC
0984120   4   PIPE/FITTINGS, COPPER
0984121   4   M/R, REPAIR SOLDER JOINT
0984122   4   REPLACE/REPLACE HOT WATER PIPE,12'SECT
0984200   1   GATE VALVE
0984210   1   GATE VALVE 3/8"-1 1/2"
0984211   1   M/R, REPACK GATE VALVE GLAND
0984212   1   REPLACE/ REPLACE GATE VALVE
0984220   1   GATE VALVE, 2"-3"
0984221   1   M/R, REPACK GATE VALVE GLAND
0984222   1   REPLACE/ REPLACE GATE VALVE
0984230   1   DRAIN VALVE
0984281   1   M/R, REPACK DRAIN VALVE GLAND
0984282   1   M/R, REPLACE VALVE STEM ASSEMBLY
0984283   1   REPLACE/ REPLACE DRAIN VALVE
0984300   1   PIPE INSULATION
0984370   1   STEAM TRAP F&T<1"
0984371   1   M/R, REPAIR STEAM TRAP
0984372   1   PREV. MAIN. ON STEAM TRAP
0984373   1   REPLACE/ REPLACE STEAM TRAP
09843A0   4   AIR SEPARATOR
09843A1   4   REPAIR BROKEN INSULATION
09843A2   4   REPLACE INSULATION
0984400   1   CIRCULATOR PUMP
0984410   1   CIRCULATOR PUMP <1HP
0984411   1   M/R, REPAIR CIRCULATOR PUMP
0984412   1   PM, PREV. MAIN. ON CIRCULATOR PUMP
0984413   1   REPLACE/ REPLACE CIRCULATOR PUMP
0984420   1   CIRCULATION PUMP 5 HP
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Ceces No : Unit of Measure : Description

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0984421   1   REPAIR CIRCULATION PUMP - 5HP
0984422   1   PREVENTIVE MAINTENANCE-PUMP
0984423   1   REPLACE CIRCULATION PUMP 5 HP
0984460   1   COND. RCVR., 10-15 GAL.
0984461   1   M/R, REPAIR CONDENSATE RECEIVER
0984462   1   M/R, REPAIR CONDENSATE RECEIVER, MOTER
0984463   1   P/M, PREV. MAINT. ON CONDENSATE RECEIVER
0984464   1   REPLACE/ REPLACE CONDENSATE RECEIVER
0985000       HVAC VALVES, HEATING GENERATION
0990000       COOLING GENERATION SYSTEMS
0991000       EQUIPMENT, COOLING GENERATION
0991100   1   A/C_DX PACKAGED
0991110   1   5 TONS
0991111   1   REPAIR AIR CONDITIONER
0991112   1   PREVENTIVE MAINTENANCE
0991113   1   REPLACE AIR CONDITIONER
0991120   1   20 TONS
0991121   1   REPAIR AIR CONDITIONER
0991122   1   PREVENTIVE MAINTENANCE
0991123   1   REPLACE AIR CONDITIONER
0991130   1   50 TONS
0991131   1   REPAIR AIR CONDITIONER
0991132   1   REPLACE AIR CONDITIONER
0991133   1   SUPPLY AIR FAN BEARINGS
0991200   1   A/C WINDOW
0991210   1   1 TON
0991211   1   REPAIR AIR CONDITIONER
0991212   1   PREVENTIVE MAINTENANCE
0991213   1   REPLACE AIR CONDITIONER
0991220   1   2 TONS
0991221   1   REPAIR AIR CONDITIONER
0991222   1   PREVENTIVE MAINTENANCE
0991223   1   REPLACE AIR CONDITIONER
0991300   1   A/C PAD MOUNTED
0991310   1   AIR CONDITIONER PAD MOUNT. 5 TON
0991311   1   REPAIR AIR COND. PAD MNT. 5 TN
0991312   1   PREVENTIVE MAINTENANCE A/C 5TN
0991313   1   REPLACE AIR CONDNER. PAD 5 TON
0991320   1   AIR CONDITIONER PAD MOUNT. 20 TON
0991321   1   REPAIR AIR COND. PAD MNT. 20 T
0991322   1   PREVENTIVE MAINTENANCE A/C 20T
0991323   1   REPLACE AIR CONDNER.PAD 20 TON
0991400   1   CHILLERS ACH RECIP
0991410   1   20 TONS
0991411   1   REPAIR HERMETIC CHILLER
0991412   1   PREVENTIVE MAINTENANCE
0991413   1   REPLACE CHILLER
0991420   1   50 TONS
0991421   1   REPAIR HERMETIC CHILLER
0991422   1   PREVENTIVE MAINTENANCE
0991423   1   REPLACE CHILLER
0991430   1   100 TONS
0991431   1   REPAIR HERMETIC CHILLER
0991432   1   PREVENTIVE MAINTENANCE
0991433   1   REPLACE CHILLER
0991500   1   CHILLERS WCH RECIP.
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Caces No : Unit of Measure :: Description

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0991510  1  20 TONS
0991511  1  REPAIR HERMETIC CHILLER
0991512  1  PREVENTIVE MAINTENANCE
0991513  1  REPLACE CHILLER
0991520  1  50 TONS
0991521  1  REPAIR HERMETIC CHILLER
0991522  1  PREVENTIVE MAINTENANCE
0991523  1  REPLACE CHILLER
0991530  1  100 TONS
0991531  1  REPAIR HERMETIC CHILLER
0991532  1  PREVENTIVE MAINTENANCE
0991533  1  REPLACE CHILLER
0991600  1  CHILLERS HERMETIC CENT.
0991610  1  100 TONS
0991611  1  REPAIR CHILLER
0991612  1  PREVENTIVE MAINTENANCE
0991613  1  REPLACE CHILLER
0991620  1  300 TONS
0991621  1  REPAIR CHILLER
0991622  1  PREVENTIVE MAINTENANCE
0991623  1  REPLACE CHILLER
0991630  1  900 TONS
0991631  1  REPAIR CHILLER
0991632  1  PREVENTIVE MAINTENANCE
0991633  1  REPLACE CHILLER
0991700  1  CHILLERS OPEN CENTRIFUGAL
0991710  1  300 TONS
0991711  1  REPAIR CHILLER
0991712  1  PREVENTIVE MAINTENANCE
0991713  1  REPLACE CHILLER
0991720  1  900 TONS
0991721  1  REPAIR CHILLER
0991722  1  PREVENTIVE MAINTENCE
0991723  1  REPLACE CHILLER
0991800  1  CHILLERS DOUBLE BUN HERMETIC
0991810  1  100 TONS
0991811  1  REPAIR CHILLER
0991812  1  PREVENTIVE MAINTENANCE
0991813  1  REPLACE CHILLER
0991820  1  300 TONS
0991821  1  REPAIR CHILLER
0991822  1  PREVENTIVE MAINTENANCE
0991823  1  REPLACE CHILLER
0991830  1  900 TONS
0991831  1  REPAIR CHILLER
0991832  1  PREVENTIVE MAINTENANCE
0991833  1  REPLACE CHILLER
0991900  1  CHILLERS ONE STAGE ABSORBER
0991910  1  100 TONS
0991911  1  REPAIR CHILLER
0991912  1  PREVENTIVE MAINTENANCE
0991913  1  REPLACE CHILLER
0991920  1  300 TONS
0991921  1  REPAIR CHILLER
0991922  1  PREVENTIVE MAINTENANCE
0991923  1  REPLACE CHILLER
0991930  1  900 TONS
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Caces No : Unit of Measure : Description

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0991931  1  REPAIR CHILLER
0991932  1  PREVENTIVE MAINTENANCE
0991933  1  REPLACE CHILLER
0991A00  1  CHILLERS TWO STAGE ABSORBER
0991A10  1  300 TONS
0991A11  1  REPAIR CHILLER
0991A12  1  PREVENTIVE MAINTENANCE
0991A13  1  REPLACE CHILLER
0991A20  1  900 TONS
0991A21  1  REPAIR CHILLER
0991A22  1  PREVENTIVE MAINTENANCE
0991A23  1  REPLACE CHILLER
0991B00  1  HEAT REJECTION SYSTMS AIRCOOLED CONDENSR
0991B10  1  5 TONS
0991B11  1  REPAIR CONDENSER
0991B12  1  PREVENTIVE MAINTENANCE
0991B13  1  REPLACE CONDENSER
0991B20  1  20 TONS
0991B21  1  REPAIR CONDENSER
0991B22  1  PREVENTIVE MAINTENANCE
0991B23  1  REPLACE CONDENSER
0991B30  1  50 TONS
0991B31  1  REPAIR CONDENSFR
0991B32  1  PREVENTIVE MAINTENANCE
0991B33  1  REPLACE CONDENSER
0991C00  1  HEAT REJECTION SYSTEMS COOLING TOWER
0991C10  1  50 TONS
0991C11  1  REPAIR COOLING TOWER
0991C12  1  PREVENTIVE MAINTENANCE
0991C13  1  REPLACE COOLING TOWER
0991C20  1  100 TONS
0991C21  1  REPAIR COOLING TOWER
0991C22  1  PREVENTIVE MAINTENANCE
0991C23  1  REPLACE COOLING TOWER
0991C30  1  300 TONS
0991C31  1  REPAIR COOLING TOWER
0991C32  1  PREVENTIVE MAINTENANCE
0991C33  1  REPLACE COOLING TOWER
0991C40  1  900 TONS
0991C41  1  REPAIR COOLING TOWER
0991C42  1  PREVENTIVE MAINTENANCE
0991C43  1  REPLACE COOLING TOWER
0991D00  1  HEAT REJECTION SYSTEMS EVAPORATIVE COND
0991D10  1  20 TONS
0991D11  1  REPAIR EVAPORATIVE CONDENSER
0991D12  1  PREVENTIVE MAINTENANCE
0991D13  1  REPLACE EVAPORATIVE CONDENSER
0991D20  1  100 TONS
0991D21  1  REPAIR EVAPORATIVE CONDENSER
0991D22  1  PREVENTIVE MAINTENANCE
0991D23  1  REPLACE EVAPORATIVE CONDENSER
0991D30  1  300 TONS
0991D31  1  REPAIR EVAPORATIVE CONDENSER
0991D32  1  PREVENTIVE MAINTENANCE
0991D33  1  REPLACE EVAPORATIVE CONDENSER
0991E00  1  EXPANSION TANK
0991E01  1  M/R, REFILL EXPANSION TANK
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Caces No : Unit of Measure : Description

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0991E02   1  REPLACE/ REPLACE EXPANSION TANK
0992000      FIXTURES, COOLING GENERATION
0993000      INTERCONNECTING PIPING SYSTEMS, COOL GEN
0994000      DISTRIBUTION PIPING SYSTEMS COOL GEN.
0994100   4  PIPE/FITTINGS
0994110   4  PIPE/FITTINGS, ST.&CI.
0994111   4  M/R, REPAIR CHILLED WATER PIPE
0994112   4  REPLACE/ REPLACE CHILLED WATER PIPE,12'S
0994120   4  PIPE/FITTINGS, COPPER
0994121   4  M/R, REPAIR SOLDER JOINT
0994122   4  REPLACE/ REPLACE CHILLED WATER PIPE,12'S
0994200   1  GATE VALVE
0994210   1  GATE VALVE,3/8"-1 1/2"
0994211   1  M/R, REPACK GATE VALVE GLAND
0994212   1  REPLACE/ REPLACE GATE VALVE, PARTIAL
0994220   1  GATE VALVE, 2"-3"
0994221   1  M/R, REPACK GATE VALVE GLAND
0994222   1  REPLACE/ REPLACE GATE VALVE, PARTIAL
0994280   1  DRAIN VALVE
0994281   1  M/R, REPACK DRAIN VALVE GLAND
0994282   1  M/R, REPLACE VALVE STEM ASSEMBLY
0994283   1  REPLACE/ REPLACE VALVE
0994300   4  COLLING GENERATION
0994340   4  PIPE INSULATION
0994341   4  M/R REPAIR BROKEN PIPE INSULATION
0994342   4  REPLACE REPLACE PIPE INSULATION
0994400   1  CIRCULATION PUMP
0994410   1  CIRC. PUMP 1/12-1/2 M.P.
0994411   1  REPAIR CIRC. PUMP
0994412   1  PREVENT. MAINT. ON PUMP
0994413   1  REPLACE CIRCULATION PUMP
0994420   1  CIRCULATION PUMP 5 H.P.
0994421   1  REPAIR CIRCULATION PUMP 5 HP.
0994422   1  PREVENTIVE MAINT.CIRC.PUMP 5HP
0994423   1  REPLACE CIRC. PUMP 5 H.P.
09A0000      HEATING AND COOLING GENERATION SYSTEMS
09A1000      EQUIPMENT H & C
09A1100   1  MULTI-ZONE
09A1110   1  6500 CFM
09A1111   1  REPAIR MULTI-ZONE UNIT
09A1112   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1113   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1114   1  REPLACE MULTI-ZONE UNIT
09A1120   1  10000 CFM
09A1121   1  REPAIR MULTI-ZONE UNIT
09A1122   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1123   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1124   1  REPLACE MULTI-ZONE UNIT
09A1130   1  25000 CFM
09A1131   1  REPAIR MULTI-ZONE UNIT
09A1132   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1133   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1134   1  REPLACE MULTI-ZONE UNIT
09A1140   1  50000 CFM
09A1141   1  REPAIR MULTI-ZONE UNIT
09A1142   1  PREVENTIVE MAINTENANCE - ANNUAL
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Caces No : Unit of Measure : Description

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09A1143   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1144   1  REPLACE MULTI-ZONE UNIT
09A1200   1  DUAL DUCT
09A1210   1  6500 CFM
09A1211   1  REPAIR DUAL DUCT UNIT
09A1212   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1213   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1214   1  REPLACE DUAL DUCT UNIT
09A1220   1  10000 CFM
09A1221   1  REPAIR DUAL DUCT UNIT
09A1222   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1223   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1224   1  REPLACE DUAL DUCT UNIT
09A1230   1  25000 CFM
09A1231   1  REPAIR DUAL DUCT UNIT
09A1232   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1233   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1234   1  REPLACE DUAL DUCT UNIT
09A1240   1  50000 CFM
09A1241   1  REPAIR DUAL DUCT UNIT
09A1242   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1243   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1244   1  REPLACE DUAL DUCT UNIT
09A1300   1  THREE DECK MULTI-ZONE
09A1310   1  6500 CFM
09A1311   1  REPAIR MULTI-ZONE UNIT
09A1312   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1313   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1314   1  REPLACE MULTI-ZONE UNIT
09A1320   1  10000 CFM
09A1321   1  REPAIR MULTI-ZONE UNIT
09A1322   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1323   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1324   1  REPLACE MULTI-ZONE UNIT
09A1330   1  25000 CFM
09A1331   1  REPAIR MULTI-ZONE UNIT
09A1332   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1333   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1334   1  REPLACE MULTI-ZONE UNIT
09A1340   1  50000 CFM
09A1341   1  REPAIR MULTI-ZONE UNIT
09A1342   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1343   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1344   1  REPLACE MULTI-ZONE UNIT
09A1400   1  DUAL DUCT VARIABLE VOLUME
09A1410   1  6500 CFM
09A1411   1  REPAIR DUAL DUCT VARIABLE VOLUME SYSTEM
09A1412   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1413   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1414   1  REPLACE DUAL DUCT VARIABLE VOLUME UNIT
09A1420   1  10000 CFM
09A1421   1  REPAIR DUAL DUCT VARIABLE VOLUME UNIT
09A1422   1  PREVENTIVE MAINTENANCE - ANNUAL
09A1423   1  PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1424   1  REPLACE DUAL DUCT VARIABLE VOLUME UNIT
09A1430   1  25000 CFM
09A1431   1  REPAIR DUAL DUCT VARIABLE VOLUME UNIT
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Caces No : Unit of Measure : Description

Caces No		Description
09A1432		PREVENTIVE MAINTENANCE - ANNUAL
09A1433		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1434		REPLACE DUAL DUCT VARIABLE VOLUME UNIT
09A1440	1	50000 CFM
09A1441		REPAIR DUAL DUCT VARIABLE VOLUME UNIT
09A1442		PREVENTIVE MAINTENANCE - ANNUAL
09A1443		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1444		REPLACE DUAL DUCT VARIABLE VOLUME UNIT
09A1500	1	VARIABLE VOLUME
09A1510	1	6500 CFM
09A1511		REPAIR VARIABLE VOLUME UNIT
09A1512		PREVENTIVE MAINTENANCE - ANNUAL
09A1513		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1514		REPLACE VARIABLE VOLUME UNIT
09A1520	1	10000 CFM
09A1521		REPAIR VARIABLE VOLUME UNIT
09A1522		PREVENTIVE MAINTENANCE - ANNUAL
09A1523		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1524		REPLACE VARIABLE VOLUME UNIT
09A1530	1	25000 CFM
09A1531		REPAIR VARIABLE VOLUME UNIT
09A1532		PREVENTIVE MAINTENANCE - ANNUAL
09A1533		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1534		REPLACE VARIABLE VOLUME UNIT
09A1540	1	50000 CFM
09A1541		REPAIR VARIABLE VOLUME UNIT
09A1542		PREVENTIVE MAINTENANCE - ANNUAL
09A1543		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1544		REPLACE VARIABLE VOLUME UNIT
09A1600	1	TERM REHEAT
09A1610	1	6500 CFM
09A1611		REPAIR TERMINAL REHEAT UNIT
09A1612		PREVENTIVE MAINTENANCE - ANNUAL
09A1613		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1614		REPLACE TERMINAL REHEAT UNIT
09A1620	1	10000 CFM
09A1621		REPAIR TERMINAL REHEAT UNIT
09A1622		PREVENTIVE MAINTENANCE - ANNUAL
09A1623		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1624		REPLACE TERMINAL REHEAT UNIT
09A1630	1	25000 CFM
09A1631		REPAIR TERMINAL REHEAT UNIT
09A1632		PREVENTIVE MAINTENANCE - ANNUAL
09A1633		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1634		REPLACE TERMINAL REHEAT UNIT
09A1640	1	50000 CFM
09A1641		REPAIR TERMINAL REHEAT UNIT
09A1642		PREVENTIVE MAINTENANCE - ANNUAL
09A1643		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1644		REPLACE TERMINAL REHEAT UNIT
09A1700	1	TWO-PIPE INDUCTION
09A1710	1	6500 CFM
09A1711		REPAIR 2 PIPE INDUCTION UNIT
09A1712		PREVENTIVE MAINTENANCE - ANNUAL
09A1713		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1714		REPLACE 2 PIPE INDUCTION UNIT
09A1720	1	10000 CFM

Caces No : Unit of Measure : Description

Caces No		Description
09A1721		REPAIR 2 PIPE INDUCTION UNIT
09A1722		PREVENTIVE MAINTENANCE - ANNUAL
09A1723		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1724		REPLACE 2 PIPE INDUCTION UNIT
09A1730	1	25000 CFM
09A1731		REPAIR 2 PIPE INDUCTION UNIT
09A1732		PREVENTIVE MAINTENANCE - ANNUAL
09A1733		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1734		REPLACE 2 PIPE INDUCTION UNIT
09A1740	1	50000 CFM
09A1741		REPAIR 2 PIPE INDUCTION UNIT
09A1742		PREVENTIVE MAINTENANCE - ANNUAL
09A1743		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1744		REPLACE 2 PIPE INDUCTION UNIT
09A1800	1	FOUR-PIPE INDUCTION
09A1810	1	6500 CFM
09A1811		REPAIR 4 PIPE INDUCTION UNIT
09A1812		PREVENTIVE MAINTENANCE - ANNUAL
09A1813		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1814		REPLACE 4 PIPE INDUCTION UNIT
09A1820	1	10000 CFM
09A1821		REPAIR 4 PIPE INDUCTION UNIT
09A1822		PREVENTIVE MAINTENANCE - ANNUAL
09A1823		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1824		REPLACE 4 PIPE INDUCTION UNIT
09A1830	1	25000 CFM
09A1831		REPAIR 4 PIPE INDUCTION UNIT
09A1832		PREVENTIVE MAINTENANCE - ANNUAL
09A1833		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1834		REPLACE 4 PIPE INDUCTION UNIT
09A1840	1	50000 CFM
09A1841		REPAIR 4 PIPE INDUCTION UNIT
09A1842		PREVENTIVE MAINTENANCE - ANNUAL
09A1843		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1844		REPLACE 4 PIPE INDUCTION UNIT
09A1900	1	TWO-PIPE FAN COIL
09A1910	1	200 CFM
09A1911		REPAIR FAN COIL UNIT
09A1912		PREVENTIVE MAINTENANCE - CLEAN COILS
09A1913		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09.1914		REPLACE FAN COIL UNIT
09A1920	1	400 CFM
09A1921		REPAIR FAN COIL UNIT
09A1922		PREVENTIVE MAINTENANCE - CLEAN COILS
09A1923		PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1924		REPLACE FAN COIL UNIT
09A1930	1	600 CFM
09A1931		REPAIR FAN COIL UNIT
09A1932		PREVENTIVE MAINTENANCE - CLEAN COILS
09A1933		PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1934		REPLACE FAN COIL UNIT
09A1940	1	1200 CFM
09A1941		REPAIR FAN COIL UNIT
09A1942		PREVENTIVE MAINTENANCE - CLEAN COILS
09A1943		PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1944		REPLACE FAN COIL UNIT
09A1A00	1	FOUR-PIPE FAN-COIL

Caces No : Unit of Measure : Description

09A1A10	1	200 CFM
09A1A11	1	REPAIR FAN COIL UNIT
09A1A12	1	PREVENTIVE MAINTENANCE - CLEAN COILS
09A1A13	1	PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1A14	1	REPLACE FAN COIL UNIT
09A1A20	1	400 CFM
09A1A21	1	REPAIR FAN COIL UNIT
09A1A22	1	PREVENTIVE MAINTENANCE - CLEAN COILS
09A1A23	1	PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1A24	1	REPLACE FAN COIL UNIT
09A1A30	1	600 CFM
09A1A31	1	REPAIR FAN COIL UNIT
09A1A32	1	PREVENTIVE MAINTENANCE - CLEAN COILS
09A1A33	1	PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1A34	1	REPLACE FAN COIL UNIT
09A1A40	1	1200 CFM
09A1A41	1	REPAIR FAN COIL UNIT
09A1A42	1	PREVENTIVE MAINTENANCE - CLEAN COILS
09A1A43	1	PREVENTIVE MAINTENANCE - REPLACE FILTER
09A1A44	1	REPLACE FAN COIL UNIT
09A1B00	1	UNIT-VENT
09A1B10	1	400 CFM
09A1B11	1	REPAIR UNIT VENT
09A1B12	1	PREVENTIVE MAINTENANCE
09A1B13	1	REPLACE UNIT VENT
09A1B20	1	1200 CFM
09A1B21	1	REPAIR UNIT VENT
09A1B22	1	PREVENTIVE MAINTENANCE
09A1B23	1	REPLACE UNIT VENT
09A1C00	1	SINGLE-ZONE DRAW THRU
09A1C10	1	6500 CFM
09A1C11	1	REPAIR SINGLE ZONE DRAW-THRU
09A1C12	1	PREVENTIVE MAINTENANCE - ANNUAL
09A1C13	1	PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1C14	1	REPLACE SINGLE ZONE DRAW-THRU
09A1C20	1	10000 CFM
09A1C21	1	REPAIR SINGLE ZONE DRAW-THRU
09A1C22	1	PREVENTIVE MAINTENANCE - ANNUAL
09A1C23	1	PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1C24	1	REPLACE SINGLE ZONE DRAW-THRU
09A1C30	1	25000 CFM
09A1C31	1	REPAIR SINGLE ZONE DRAW-THRU
09A1C32	1	PREVENTIVE MAINTENANCE - ANNUAL
09A1C33	1	PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1C34	1	REPLACE SINGLE ZONE DRAW-THRU
09A1C40	1	50000 CFM
09A1C41	1	REPAIR SINGLE ZONE DRAW-THRU
09A1C42	1	PREVENTIVE MAINTENANCE - ANNUAL
09A1C43	1	PREVENTIVE MAINTENANCE - REPLACE FILTERS
09A1C44	1	REPLACE SINGLE ZONE DRAW-THRU
09A1D00	1	UNIT HEATER
09A1D10	1	400 CFM
09A1D11	1	REPAIR UNIT HEATER
09A1D12	1	PREVENTIVE MAINTENANCE
09A1D13	1	REPLACE UNIT HEATER
09A1D20	1	1200 CFM
09A1D21	1	REPAIR UNIT HEATER

Caces No : Unit of Measure : Description

09A1D22	1	PREVENTIVE MAINTENANCE
09A1D23	1	REPLACE UNIT HEATER
09A1E00		HEAT PUMP
09A1E10	1	HEAT PUMP 5 TONS
09A1E11	1	REPAIR HEAT PUMP
09A1E12	1	PREVENTIVE MAINTENANCE
09A1E13	1	REPLACE HEAT PUMP
09A1E20	1	HEAT PUMP 10 TONS
09A1E21	1	REPAIR HEAT PUMP
09A1E22	1	PREVENTIVE MAINTENANCE
09A1E23	1	REPLACE HEAT PUMP
09A1E30	1	HEAT PUMP 25 TONS
09A1E31	1	REPAIR HEAT PUMP
09A1E32	1	PREVENTIVE MAINTENANCE
09A1E33	1	REPLACE HEAT PUMP
09A2000		FIXTURES, H & C
09A3000		DISTRIBUTION SYSTEMS, H & C
09B0000		VENTILATION SYSTEMS
09B1000		EQUIPMENT, VENTILATION SYS.
09B2000		FIXTURES, VENTILATION SYS.
09B3000		DISTRIBUTION SYSTEMS, VENT. SYS.
09C0000		EXHAUST SYSTEMS
09C1000		EQUIPMENT, EXHAUST SYS.
09C1100	1	EXHAUST FAN
09C1110	1	EXHAUST FAN 200 CFM
09C1111	1	REPAIR FAN
09C1112	1	PREVENTIVE MAINTENANCE
09C1113	1	REPLACE UNIT
09C1120	1	EXHAUST FAN 1000 CFM
09C1121	1	REPAIR FAN
09C1122	1	PREVENTIVE MAINTENANCE
09C1123	1	REPLACE ROOF MOUNTED EXHAUST F
09C1130	1	EXHAUST FAN 10000 CFM
09C1131	1	REPAIR EXHAUST FAN 10000 CFM
09C1132	1	PREVENTIVE MAINT. EXHAUST FAN 10000 CFM
09C1133	1	REPLACE EXHAUST FAN 10000 CFM
09C1140	1	EXHAUST FAN 25000 CFM
09C1141	1	REPAIR EXHAUST FAN 25000 CFM
09C1142	1	PREVENTIVE MAINT. EXHAUST FAN 25000 CFM
09C1143	1	REPLACE EXHAUST FAN 25000 CFM
09C1150	1	EXHAUST FAN 50000 CFM
09C1151	1	REPAIR EXHAUST FAN 50000 CFM
09C1152	1	PREVENTIVE MAINT. EXHAUST FAN 50000 CFM
09C1153	1	REPLACE EXHAUST FAN 50000 CFM
09C2000		FIXTURES, EXHAUST SYS.
09C3000		DISTRIBUTION SYSTEMS, EXHAUST SYS.
09D0000		SPECIAL SYSTEMS
09D1000		CLEAN ROOMS
09D2000		RF SHIELDING
09D3000		PAINT SPRAY BOOTHS
09D4000		SPECIAL AIR FILTRATION
09D5000		HUMIDITY CONTROL SYSTEMS
09D5100	1	ROOM HUMIDIFIER, FLOOR TYPE
09D5101	1	REPAIR HUMIDIFIER

Caces No : Unit of Measure : Description

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09E5102   1   PREVENTATIVE MAINTENANCE CLEANING
09E5103   1   REPLACE REPLACE HUMIDIFIER
09E6000   OTHER
09E0000   CONTROLS AND INSTRUMENTATION
09E1000   DEVICES
09E1100   1   THERMOSTATS/PNEUMATICS
09E1110   1   THERMOSTATS/PNEUMATICS
09E1111   1   PREVENTIVE MAINTENANCE
09E1112   1   REPLACE PNEUMATIC THERMOSTAT
09E2000   TRANSMISSION MEDIA
09F0000   TESTING, BALANCE, ETC.
09F1000   TEST AND BALANCE
09F2000   IDENTIFICATION SYSTEMS
09F3000   O & M DATA

1100000   INTERIOR ELECTRICAL
1110000   SERVICE & DISTRIBUTION
1112000   OVERHEAD SERVICE FEEDER
1112001   4   REPAIR CABLE SPLICE.
1112002   4   CABLE INSPECTION
1112003   4   REPLACE SERVICE CABLE
1113000   MAIN PROTECTION EQUIPMENT
1113100   5   SWITCHGEAR, MAIN FRAME, 1200 A.
1113101   5   REPAIR SWITCHGEAR.
1113102   5   PREVENTIVE MAINTENANCE AND INSPECTION.
1113103   5   REPLACE SWITCHGEAR.
1113200   1   FUSE
1113201   1   REPLACE FUSE
1114000   PRIMARY TRANSFORMER
1114100   1   TRANSFORMER, LIQUID FILLED ABOVE 600 V
1114101   1   REPAIR TRANSFORMER.
1114102   1   PREVENTIVE MAINTENANCE AND INSPECTION.
1114103   1   REPLACE TRANSFORMER.
1114200   1   TRANSFORMER, DRY, ABOVE 15,000 V
1114201   1   REPAIR TRANSFORMER.
1114202   1   PREVENTIVE MAINTENANCE AND INSPECTION.
1114203   1   REPLACE TRANSFORMER.
1115000   POWER PROTCETION EQUIPMENT
1115100   5   SWITCHGEAR, INDOOR, 0-600 V
1115101   5   REPAIR SWITCHGEAR.
1115102   5   PREVENTIVE MAINTENANCE AND INSPECTION
1115103   5   REPLACE SWITCHGEAR.
1115200   5   SWITCHGEAR, INDOOR ABOVE 600 V
1115201   5   MAINTENANCE AND REPAIR
1115202   5   PREVENTIVE MAINTENANCE AND INSPECTION
1115203   5   REPLACE SWITCHGEAR
1116000   SECONDARY TRANSFORMER
1116100   1   TRANSFORMER, LIQUID FILLED BELOW 600 V
1116101   1   MAINTENANCE AND REPAIR
1116102   1   PREVENTIVE MAINTENANCE AND INSPECTION
1116103   1   REPLACE TRANSFORMER
1116200   1   TRANSFORMER, DRY BELOW 15,000 V
1116201   1   MAINTENANCE AND REPAIR
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Caces No : Unit of Measure : Description

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1116202   1   PREVENTATIVE MAINTENANCE AND INSPECTION
1116203   1   REPLACE TRANSFORMER
1117000   LIGHTNING PROTECTION
1117100   5   SWITCHGEAR, INDOOR, BELOW 600 V
1117101   5   MAINTENANCE AND REPAIR
1117102   5   PREVENTIVE MAINTENANCE AND INSPECTION
1117103   5   REPLACE SWITCHGEAR.
1117200   5   SWITCHGEAR, INDOOR ABOVE 600 V
1117201   5   MAINTENANCE AND REPAIR
1117202   5   PREVENTIVE MAINTENANCE AND INSPECTION
1117203   5   REPLACE SWITCHGEAR
1118000   POWER & LIGHTING DISTRIBUTION
1118100   4   CABLE, THERMOPLASTIC, 601-15,000 V
1118101   4   REPLACE CABLE
1118200   4   CABLE, THERMOSETTING, 601-15,000 V
1118201   4   REPLACE CABLE
1118300   4   CABLE, LEAD COVERED, 601-15,000 V
1118301   4   REPLACE CABLE
1118400   4   CABLE, FLEXIBLE METALIC < 600 VOLT
1118401   4   REPLACE CABLE
1118500   4   BRANCH WIRING, 0-600 V
1118501   4   REPLACE BRANCH WIRING
1118600   4   BRANCH WIRING, OVER 600 V
1118601   4   REPLACE BRANCH WIRING.
1118700   3   BUSS DUCT
1118701   3   MAINTENANCE AND REPAIR
1118702   3   PREVENTIVE MAINTENANCE AND INSPECTION.
1118703   3   REPLACE BUSS DUCT
1118800   4   CONDUIT EMT
1118801   4   REPLACE EMT CONDUIT
1119000   SPECIAL EQUIPMENT
1119100   1   METER, DARSOMVAL GALVANOMETER
1119101   1   MAINTENANCE AND REPAIR
1119102   1   REPLACE METER
1119300   1   INVERTER
1119301   1   MAINTENANCE AND REPAIR.
1119302   1   PREVENTIVE MAINTENANCE AND INSPECTION.
1119303   1   REPLACE INVERTER.
1119400   1   RECTIFIER, UNDER 600 V
1119401   1   MAINTENANCE AND REPAIR.
1119402   1   PREVENTIVE MAINTENANCE AND INSPECTION.
1119403   1   REPLACE RECTIFIER.
1120000   POWER SYSTEM
1122000   SAFTEY SWITCHES & BREAKERS
1122100   1   SAFETY SWITCH, ENCLOSED
1122101   1   MAINTENANCE AND REPAIR
1122102   1   PREVENTIVE MAINTENANCE AND INSPECTION
1122103   1   REPLACE SAFETY SWITCH
1122300   1   CIRCUIT BREAKERS
1122310   1   CIRCUIT BREAKER, MC, 0-599 V
1122311   1   MAINTENANCE AND REPAIR
1122312   1   PREVENTIVE MAINTENANCE AND INSPECTION
1122313   1   REPLACE BREAKER
1122320   1   CIRCUIT BREAKER, MC, 600 V AND OVER
1122321   1   REPAIR FAILED BREAKER
1122322   1   PREVENTIVE MAINTENANCE AND INSPECTION
```

Caces No : Unit of Measure : Description

```
1122323  1  REPLACE CIRCUIT BREAKER
1122330  1  CIRCUIT BREAKER, FIXED 0-599 V
1122331  1  MAINTENANCE AND REPAIR
1122332  1  PREVENTIVE MAINTENANCE AND INSPECTION
1122333  1  REPLACE CIRCUIT BREAKER
1122340  1  CIRCUIT BREAKER, FIXED 600V AND OVER
1122341  1  REPAIR FAILED BREAKER
1122342  1  PREVENTIVE MAINTENANCE AND INSPECTION
1122343  1  REPLACE CIRCUIT BREAKER
1123000 MOTOR STARTER
1123600  1  MOTOR STARTER, 0-600 V
1123601  1  MAINTENANCE AND REPAIR
1123602  1  PREVENTIVE MAINTENANCE AND INSPECTION
1123603  1  REPLACE STARTER
1123700  1  MOTOR STARTER, 601-15,000 V
1123701  1  MAINTENANCE AND REPAIR
1123702  1  PREVENTIVE MAINTENANCE AND INSPECTION
1123703  1  REPLACE STARTER
1124000  CONTACTORS AND RELAYS
1124001  1  MAINTENANCE AND REPAIR
1124002  1  PREVENTIVE MAINTENANCE
1124003  1  REPLACE CONTACTOR/RELAY
1127000  RECEPTACLES & PLUGS
1127100  1  WIRING DEVICE, SWITCH
1127101  1  MAINTENANCE AND REPAIR
1127102  1  REPLACE SWITCH
1127200  1  RECEPTACLE AND PLUG
1127201  1  MAINTENANCE AND REPAIR
1127202  1  REPLACE RECEPTACLE/PLUG
            SWITCH, PULL CORD
1127301  1  MAINTENANCE AND REPAIR-SWITCH
1127302  1  REPLACE SWITCH, PULL CORD
1130000  LIGHTING SYSTEM
1131000  LIGHTING FIXTURES
1131100  1  INCANDESCENT LIGHTING FIXTURE
1131101  1  MAINTENANCE AND REPAIR
1131102  1  REPLACE LAMPS
1131103  1  REPLACE LIGHTING FIXTURE
1131200  1  QUARTZ LIGHTING FIXTURE
1131201  1  MAINTENANCE AND REPAIR
1131202  1  REPLACE LAMP
1131203  1  REPLACE FIXTURE
1131300  1  FLUORESCENT LIGHTING FIXTURE
1131301  1  MAINTENANCE AND REPAIR
1131302  1  REPLACE LAMPS (2)
1131303  1  REPLACE FIXTURE
1131400  1  HID
1131410  1  HID, MERCURY VAPOR FIXTURE, 250-W
1131411  1  MAINTENANCE AND REPAIR
1131412  1  REPLACE LAMP
1131413  1  REPLACE FIXTURE
1131420  1  HID, METAL HALID FIXTURE, 250-W
1131421  1  MAINTENANCE AND REPAIR
1131422  1  REPLACE LAMP
1131423  1  REPLACE FIXTURE
1131500  1  EMERGENCY LIGHTING FIXTURE
```

Caces No : Unit of Measure : Description

```
1131501  1  MAINTENANCE AND REPAIR
1131502  1  REPLACE LAMP
1131503  1  REPLACE FIXTURE
1131600  1  SODIUM FIXTURE
1131610  1  H.P. 250 WATT
1131611  1  MAINTENANCE AND REPAIR
1131612  1  REPLACE LAMP
1131613  1  REPLACE FIXTURE
1131620  1  L.P. 200 WATT
1131621  1  MAINTENANCE AND REPAIR
1131622  1  REPLACE LAMP
1131623  1  REPLACE FIXTURE
1140000  GROUNDING SYSTEM
1141000  ELECTRICAL SERVICE GROUND
1141001  4  MAINTENANCE AND REPAIR
1141002  4  REPLACE ELECTRICAL SERVICE GROUND
1142000  BUILDING STUCTURE GROUND
1142001  4  MAINTENANCE AND REPAIR
1142002  4  REPLACE BUILDING SERVICE GROUND
1143000  LIGHTNING PROTECTION
1143001  4  MAINTENANCE AND REPAIR
1143002  4  REPLACE LIGHTNING PROTECTION
1144000  COMPUTER SYSTEM GROUND
1144001  4  MAINTENANCE AND REPAIR
1144002  4  REPLACE COMPUTER GROUND SYSTEM
1145000  SPECIAL GROUND SYSTEM
1145001  4  MAINTENANCE AND REPAIR
1145002  4  REPLACE SPECIAL GROUND SYSTEM

1200000  SPECIAL INTERIOR ELECTRICAL SYSTEM
1210000  SOUND SYSTEM
1211000  TELEPHONE SYSTEM
1211100  1  4-PIN RECEPTACLE
1211101  1  M/R REPAIR 4-PIN RECEPTACLE
1211102  1  REPALCE REPLACE 4-PIN RECEPTACLE
1211200  4  TELEPHONE CABLE
1211201  4  M/R REPAIR CABLE .22 AWG,4 PAIR
1211202  4  REPLACE REPLACE TELEPHONE CABLE .22AWG,
1212000  INTERCOMMUNICATION SYSTEM
1212001  1  MAINTENANCE AND REPAIR
1213000  PUBLIC ADDRESS SYSTEM
1213001  1  MAINTENANCE AND REPAIR
1214000  RADIO COMMUNICATION SYSTEM
1214001  1  MAINTENANCE AND REPAIR
1220000  ALARM SYSTEM
1221000  FIRE ALARM SYSTEM
1221100  1  MANUAL PULL STATION
1221101  1  M/R CHECK AND REPAIR MANUAL PULL STATION
1221102  1  REPLACE REPLACE MANUAL PULL STATION
1221200  1  SMOKE DETECTOR
1221201  1  M/R REPAIR SMOKE DETECTOR
1221202  1  REPLACE REPLACE SMOKE DETECTOR
1221300  1  FIRE ALARM BELL
```

Caces No : Unit of Measure : Description

```
1221301    1  REPLACE REPLACE 6 IN. FIRE ALARM BELL
1221400    1  ANNUNCIATION PANEL
1221401    1  M/R MINOR REPAIRS TO ANNUNCIATION PANEL
1221402    1  PM PREVENTIVE MAINTENANCE AND INSPECTION
1221403    1  REPLACE REPLACE ANNUNCIATION PANEL
1222000 INTRUDER DETECTION SYSTEM
1222001    1  MAINTENANCE AND REPAIR
1223000 EQUIPMENT ALARM SYSTEM
1223001    1  MAINTENANCE AND REPAIR
1230000 TELEVISION SYSTEM
1232000 CLOSED CIRCUIT TV SYSTEM
1232001    1  MAINTENANCE AND REPAIR
1240000 CONTROL SYSTEM
1241000 ENERGY MANAGEMENT SYSTEM
1241001    1  MAINTENANCE AND REPAIR
1242000 RADIO CONTROL SYSTEM
1242001    1  MAINTENANCE AND REPAIR
1250000 HOSPITAL SYSTEM
1251000 NURSE CALL
1251001    1  MAINTENANCE AND REPAIR
1252000 DOCTOR PAGING
1252001    1  MAINTENANCE AND REPAIR
1253000 DOCTOR REGISTER
1253001    1  MAINTENANCE AND REPAIR
1254000 GROUND DETECTION
1254001    1  MAINTENANCE AND REPAIR
1255000 NARCOTICS ALARM
1255001    1  MAINTENANCE AND REPAIR
1256000 OXYGEN ALARM
1256001    1  MAINTENANCE AND REPAIR
1260000 CLOCK & PROGRAM SYSTEM
1261000 CLOCK AND PROGRAM SYSTEM
1261001    1  MAINTENANCE AND REPAIR
1270000 ELECTRIC HEATING SYSTEM
1271000 BASEBOARD HEATERS
1271001    1  MAINTENANCE AND REPAIR
1271002    1  PREVENTIVE MAINTENANCE AND INSPECTION
1271003    1  REPLACE BASEBOARD HEATER
1272000 WALL & CEILING HEATERS
1272100    1  WALL MOUNTED & RECESSED WITH FAN
1272101    1  MAINTENANCE AND REPAIR
1272102    1  PREVENTIVE MAINTENANCE AND INSPECTION
1272103    1  REPLACE HEATER
1272200    1  RADIANT SUSPENDED, COMMERCIAL
1272201    1  MAINTENANCE AND REPAIR
1272202    1  PREVENTIVE MAINTENANCE AND INSPECTION
1272203    1  REPLACE HEATER
1272300    1  INFRARED SUSPENDED, COMMERCIAL
1272301    1  MAINTENANCE AND REPAIR
1272302    1  PREVENTIVE MAINTENANCE AND INSPECTION
1272303    1  REPLACE IR HEATER
1273000 INDUSTRIAL HEATERS
```

Caces No : Unit of Measure : Description

```
1273100    1  STANDARD SUSPENDED HEATER
1273101    1  MAINTENANCE AND REPAIR
1273102    1  PREVENTIVE MAINTENANCE AND INSPECTION
1273103    1  REPLACE HEATER
1273200    1  EXPLOSION PROOF INDUSTRIAL
1273201    1  MAINTENANCE AND REPAIR
1273202    1  PREVENTIVE MAINTENANCE AND INSPECTION
1273203    1  REPLACE HEATER
1274000 DUCT HEATERS
1274001    1  MAINTENANCE AND REPAIR
1274002    1  PREVENTIVE MAINTENANCE AND INSPECTION
1274003    1  REPLACE DUCT HEATER
1280000 POWER GENERATING SYSTEM
1281000 ENGINE GENERATOR SETS
1281100    1  GENERATOR, GASOLINE POWERED
1281102    1  PREVENTIVE MAINTENANCE
1281103    1  REPLACE GENERATOR COMPONENT
1281200    1  GENERATOR, DIESEL
1281202    1  PREVENTIVE MAINTENANCE
1281203    1  REPLACE DIESEL GENERATOR COMPONENT
1281300    1  GENERATOR, VAPOR GAS POWERED
1281302    1  PREVENTIVE MAINTENANCE
1281303    1  REPLACE GENERATOR COMPONENT
1281400    1  TURBINES
1281410    1  GENERATOR, STEAM TURBINE
1281412    1  PREVENTIVE MAINTENANCE
1281413    1  REPLACE GENERATOR COMPONENT
1281420    1  GENERATOR, GAS TURBINE
1281422    1  PREVENTIVE MAINTENANCE
1281423    1  REPLACE GENERATOR COMPONENT
1281500    1  TRANSFER SWITCH
1281501    1  MAINTENANCE AND REPAIR
1281502    1  PREVENTIVE MAINTENANCE AND REPAIR
1281503    1  REPLACE TRANSFER SWITCH
1282000 UNINTERRUPTIBLE POWER SOURCE
1282100    1  STATIC CHARGER, BATTERY
1282101    1  MAINTENANCE AND REPAIR
1282102    1  PREVENTIVE MAINTENANCE
1282103    1  REPLACE CHARGER
1282200    1  MOTOR GENERATOR, BATTERY
1282201    1  MAINTENANCE AND REPAIR
1282202    1  PREVENTIVE MAINTENANCE
1282203    1  REPLACE MOTOR GENERATOR
1283000 EMERGENCY BATTERY SYSTEM
1283100    1  BATTERY, PRIMARY WET
1283101    1  PREVENTIVE MAINTENANCE
1283102    1  REPLACE BATTERY
1283200    1  BATTERY, PRIMARY DRY
1283201    1  PREVENTIVE MAINTENANCE
1283202    1  REPLACE BATTERY
1283300    1  BATTERY, SECONDARY WET
1283400    1  BATTERY, SECONDARY DRY
```

APPENDIX E:
FORMS FOR FACILITY MODELING

Collection of Building Component Data for MRPM
Using Drawings and Physical Inspections

To model a building at the detailed level, you must list the quantities of components in the building and enter them into the MRPM. This is known as performing "quantity take-offs (QTOs)."

1. The first step is to place buildings into homogenous groups. That is, a facility group (FG) should contain only similar buildings--those that you believe can be represented by one typical building. For example, 20 family housing buildings all containing 24 dwelling units with about the same area (square feet), all built at the same time and all maintained similarly, would be one FG. Only one building would need to be modeled. That is, only one would need complete component QTOs performed. The others can be input into the MRPM by duplicating the one modeled in detail using MRPM's features. However, the data for every building must be "fine-tuned" by inputting the latest dates for major component replacements--roofs, heating systems, floors, exterior finishes, and windows.

2. Once the typical building has been selected, use existing drawings to obtain component material types and quantities. Then use physical inspections to verify this data and to obtain any data that cannot be obtained from the drawings.

3. The attached procedure and forms are suggested for use in recording data on the facility groups, the building QTOs, and time spent on the work. These are not mandatory and may be modified as needed for your convenience and efficiency at your installation. However, all of the information must be collected and recorded in some manner before inputting into the MRPM.

Installation Model Procedures

1. GENERAL FACILITY INFORMATION FORM - Complete this form for all facilities to be modeled and enter this information into MRPM.

2. MRPM-MODELED FACILITIES REPORT - Complete this form to indicate identical facilities that require only one building to be modeled.

Facility Inspection Procedure

1. Record starting time on the Time Sheet.

2. Obtain working drawings from the installation.

3. Review drawings to establish room numbering system. Set up a Rooms in Building Form.

4. Go to the facility to determine actual components and quantities. The facilities may have been changed and no drawings kept on the change. Record exterior components and interior components. Use the Inspection Checklist to coordinate work. Use Component Form One to record components in rooms. Use Component Form Two to record exterior, major HVAC, major electrical, major pipe runs, etc. Calculate the gross floor area and place on the Time Sheet.

5. Add component quantities in rooms to form totals for the building. Record stop time on Time Sheet and calculate total time.

6. Enter building totals into the MRPM system. Record start and stop times.

7. Make a copy of QTO Forms for the installation and USACERL.

8. Standard Doors - A standard door for counting doors to be entered into the MRPM system is a single door approximately 6 ft by 3 ft.

9. Standard Windows - A standard window for counting windows to be entered into the MRPM system is a window approximately 2 ft by 4 ft or 8 sq ft of surface area. Larger windows should be translated into the equivalent number of standard windows.

DATE:

INSTALLATION:

GENERAL FACILITY INFORMATION FORM

FACILITY ID (3)	FACILITY DESCRIPTION (4)	F&C CODE (5)	SUB INSTALLATION (1)	AREA (2)	NUMBER IN F/G (6)	TRAVEL ZONE (7)	SQUARE FEET (8)	CONSTRUCTION YEAR (9)	WORK METHOD INDEX (10)	SCH (11)	DIRECTORY (17)

MRPM-MODELED FACILITIES REPORT

Facility Category: _____

Group Number: _____

Facility Number for the Facility to be Modeled: _____

Drawing number for the Facility to be Modeled: _____

A facility group should be composed of facilities constructed during the same year from the same drawings, (i.e., identical facilities)

General Facility Information

Facility Number	Year Built	Gross Floor Area-SF

Facility Inspection Procedure

1. Record starting time on the Time Sheet.

2. Obtain working drawings from the installation.

3. Review drawings to establish room numbering system. Set up a Rooms in Building Form.

4. Go to the facility to determine actual components and quantities. The facilities may have been changed and no drawings kept on the change. Record exterior components and interior components. Use the Inspection Checklist to coordinate work. Use Component Form One to record components in rooms. Use Component Form Two to record exterior, major HVAC, major electrical, major pipe runs, etc. Calculate the gross floor area and place on the Time Sheet.

5. Add component quantities in rooms to form totals for the building. Record stop time on Time Sheet and calculate total time.

6. Enter building totals into the MRPM system. Record start and stop times.

7. Make a copy of QTO Forms for the installation and USACERL.

8. <u>Standard Doors</u> - A standard door for counting doors to be entered into the MRPM system is a single door approximately 6 ft by 3 ft.

9. <u>Standard Windows</u> - A standard window for counting windows to be entered into the MRPM system is a window approximately 2 ft by 4 ft or 8 sq ft of surface area. Larger windows should be translated into the equivalent number of standard windows.

TIME SHEET FORM

INSTALLATION_____

DATE:_____

TEAM LEADER:

ACTIVITY:_____

No. in team_____

BUILDING NUMBER	GROSS FLOOR AREA	START TIME	END TIME	TOTAL TIME

ROOMS IN BUILDING FORM

INSTALLATION_____

DATE:_____

BUILDING NUMBER:_____

ROOM ID	ROOM NUMBER	TITLE

INSPECTION CHECK LIST

INSTALLATION _____

DATE: _____

BUILDING NO. _____

ROOM NUMBER	FLOORS	CEILINGS	WALLS	DOORS	WINDOWS	LIGHTS	SWITCHES	RECEPTACLES	HVAC	PLUMBING				

E-8

COMPONENT FORM - ONE

BUILDING NUMBER:_____
COMPONENT NUMBER:_____
COMPONENT DESCRIPTION:_____

ROOM ID	QUANTITY	ROOM ID	QUANTITY	ROOM ID	QUANTITY	ROOM ID	QUANTITY

COMPONENT FORM - TWO

BUILDING NUMBER:_____

COMPONENT NUMBER	QUANTITY	DESCRIPTION

ABBREVIATIONS AND TERMS

AMS	Army Management System
AR	Army Regulation
ARM	Annual Recurring Maintenance
CACES	Computer-Aided Cost Estimating System; the system used by USACE to calculate all MCA costs to perform new construction.
DA	Department of the Army
DEH	Directorate of Engineering and Housing
DOD	Department of Defense
EH	Equipment hours
EPS	Engineered Performance Standards
HQDA	Headquarters, Department of the Army
HQ-IFS	Headquarters, Integrated Facility System
HVAC	Heating, ventilation, and air-conditioning
LH	Labor hours
MACOM	Major Command
MC	Material cost
MRPM	Maintenance Resource Prediction Model.
MRT	Major replacement task
PC	Personal computer
SCM	Special condition multiplier
SEQ	Sequence monitor

Average task frequency   The normal period of time between one performance of a task and the next performance of the same task.

AT1

Component	The smallest part of a facility that is considered important in determining the maintenance resources required to maintain the facility.
Facility group	A collection of identical facilities constructed from the same plans and maintained as a unit (e.g., all roofs, furnaces, or bathrooms replaced at same time).
High task frequency	The shortest possible period of time between one performance of a task and the next performance of the same task.
Low task frequency	The longest possible period of time between one performance of a task and the next performance of the same task.
Maintenance	All work performed to keep an item (e.g., floor, facility, area, installation) in operating order.
Task frequency	The time in years between performance of the task (e.g., painting is performed once every 10 years).

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