RDA-PC SYSTEM

USER'S GUIDE

July 1993

RDA-PC SYSTEM

USER'S GUIDE

July 1993

Prepared by

BRTRC, Inc.
370 West Maple Avenue
Vienna, Virginia 22180

for

U.S. Army Belvoir
Research, Development and Engineering Center
Fort Belvoir, Virginia 22060-5606

ACKNOWLEDGEMENTS

This version of the RDA-PC User's Guide reflects updates to the software through Version 3.0. This work was performed under contract DAAK70-92-D-0003, Task Order 0005.

The authors wish to gratefully acknowledge the sponsorship and contribution of the Advanced Systems Concepts Office of the U.S. Army Belvoir Research, Development and Engineering Center (BRDEC) in the development of the RDA-PC System. They provided design guidance and review, operational testing, and sample data and reports which were critical to the successful development of this product.

The RDA-PC System is coded in the Clipper (TM) language, Summer 1987 Version, (C) 1988, Nantucket Corporation. The code is compiled using Clipper, and then linked using the BLINKER dynamic overlay linker, Version 2.0, (C) 1992, Blink, Inc.

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

INTRODUCTION TO THE RDA-PC SYSTEM

1.1 OBJECTIVES

The RDA-PC System was designed to provide:

- o A PC-based data entry tool for the Research, Development and Acquisition Annual Review System (RDAARS). This tool minimizes redundant data entry, performs data consistency checks immediately, and provides help screens to let users select from allowable entries.

- o A PC-based RDA budget planning and analysis system for managers, program analysts, and budget analysts. This system provides enhanced 'What If' analysis capabilities and 1 to N reports, as well as links to other program management systems.

- o The capability to rapidly convert RDA data into other PC formats for use in analysis (e.g., LOTUS, DBase, RBase, etc.) and for reporting.

- o Orderly control of the data among a System Administrator and various Users with 'Data Entry' and 'View Only' permissions, each working independently on separate PCs.

- o A capability to handle classified data when installed on properly configured and controlled hardware.

1.2 HARDWARE

The RDA-PC System will work on any MS-DOS microcomputer (IBM-PC/XT/AT/386 or compatible) with 640K of RAM and a hard disk.

1.3 LIMITATIONS

The RDA-PC System is currently limited to the RDTE portions of the RDAARS database. It does not include the 'facility', 'ammunition', or the 'procurement' portions of that database.

INSTALLATION INSTRUCTIONS

> NOTE: Before installing, first check the 'readme.txt' file on the distribution disk for any new or updated information regarding the installation or use of the RDA-PC System.

Step 1. Check your 'config.sys' file (in the root directory of your boot drive). It should contain a line which says:

FILES=55

Edit the file and add the line (or correct the number of files).

Step 2. Reboot your computer if you made any changes in the 'config.sys' file.

Step 3. Create a subdirectory on your hard disk for the RDA-PC System. In the examples presented here, we will call that directory 'RDA' and it will be on the C: drive.

C:\> mkdir rda

Step 4. Move into that subdirectory.

C:\> cd rda

Step 5. Copy all the files from the distribution disk.

C:\RDA> copy a:*.*

The following files should be copied to your hard disk:

RDA_PC.ZIP	-	Archived System Files.
INSTALL.BAT	-	Installation Batch File.
PKUNZIP.EXE	-	Program for UnArchiving.

Step 6. UnArchive the RDA-PC System Files by entering the following command:

C:\RDA> install

The following additional files will be created on your hard disk:

RDA_PC.EXE	-	The RDA-PC System Program.
RDA_PC.MEM	-	The Password File.
RDA_HELP.DBF	-	The Context-Sensitive Help File.
README.TXT	-	Program Release Information.
BACKUP.BAT	-	A Backup Batch File.
CODEFILE.DBF	-	Various Control Codes.
????LIST.DBF	-	Control lists for specific codes.

Step 7. Copy the data files from the data disk (if provided). Note: this only will apply to a User who is receiving data from his System Administrator.

C:\RDA> copy a:*.dbf

Step 8. Run the program.

C:\RDA> rda_pc

When prompted to do so, enter the password provided to you by the System Administrator. The program will then attempt to open and index each of the data files. If any of the files is missing, it will offer to create that file (but without any data). You should build each of the missing files.

Note: If the program halts with an 'OPEN ERROR' displayed across the screen, then you failed to set the correct parameters in your 'config.sys' file. Go back to Steps 1 and 2 and check your work.

You are now ready to use the RDA-PC System.

OVERVIEW OF THE RDA-PC SYSTEM

3.1 STARTING THE PROGRAM

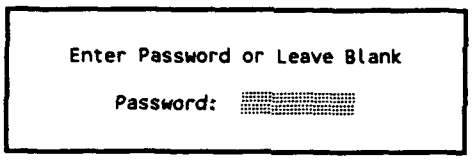
Change to the RDA-PC System directory:

C:\> cd \rda

Run the program:

C:\RDA> rda_pc

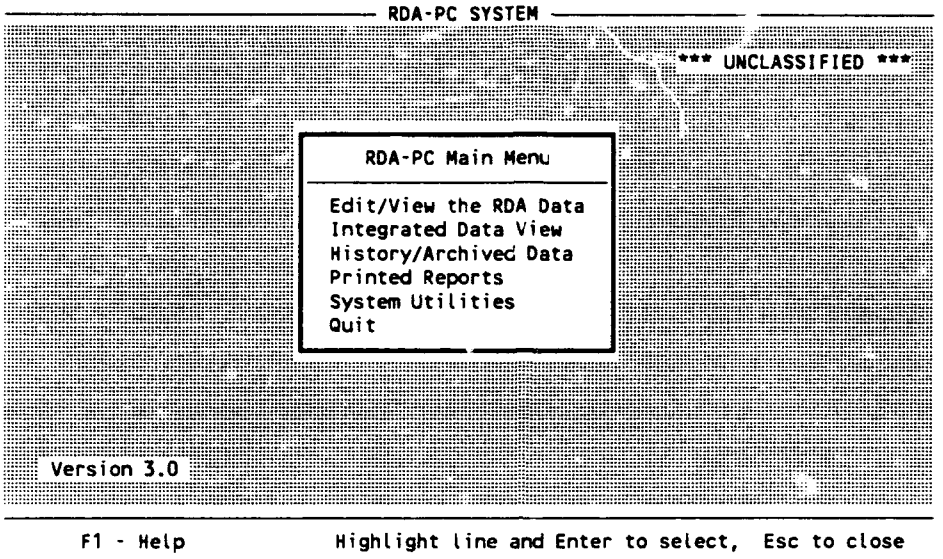
Type in your password at the following prompt:



The default passwords are **'DBA'** for the database administrator and **'USER'** for a user. See section 8.3 to change your password. If you leave the password blank you will have 'View Only' permission.

3.2 MAIN MENU

After starting up the program, the RDA-PC Main Menu is displayed, as shown below:



The options on the Main Menu are selected by highlighting the desired item and then pressing **Enter**. The Main Menu options are:

Edit/View the RDA Data:	Access the RDA data, to add new records, edit the existing data, and delete records.
Integrated Data View:	Look at the RDA data in a structured fashion. Perform 'What Ifs' and 1 to N analyses. Identify problem areas.
History/Archived Data:	Comparison of RDA data at specific milestones.
Printed Reports:	Print various Funding, Detail, 1 to N and MAMP reports.
System Utilities:	Assorted helpful utilities for using RDA-PC and exchanging data with other databases.
Quit:	Exit the RDA-PC System and return to DOS.

3.3 MAXIMUM DATA CLASSIFICATION

The System Administrator at each site can specify the maximum data classification for that site and all subsidiary users. No data can be entered which exceeds the maximum classification. This maximum is displayed on the upper right side of the Main Menu Screen.

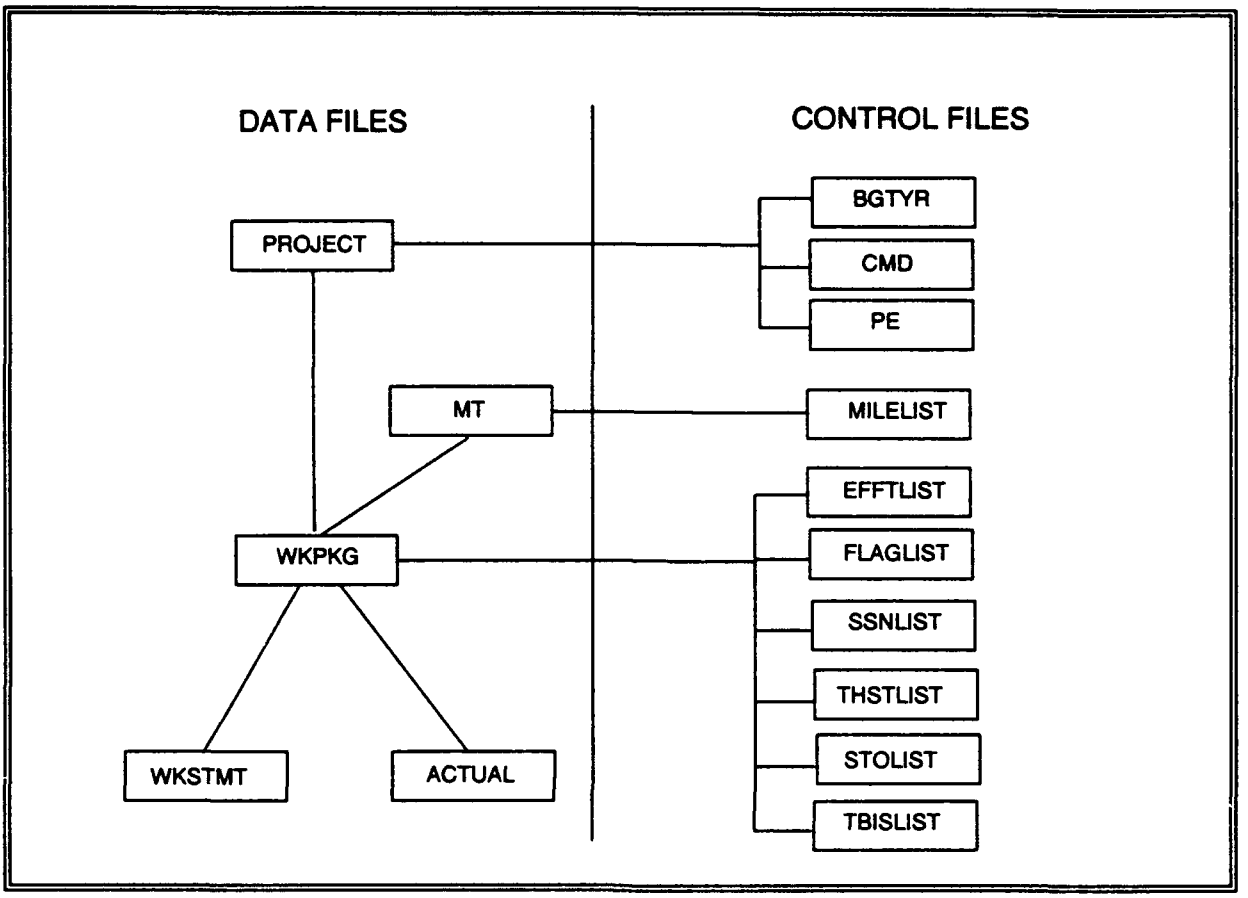
3.4 RDA-PC SYSTEM PHILOSOPHY

The following points are the foundation of the RDA-PC System:

- Workpackages are either completely funded or completely unfunded.
- In an ideal world, high priority workpackages get funded sequentially until the guidance runs out. At that point, all lower priority workpackages are unfunded.
- In the real world, determining which workpackages get funded is an iterative process which considers the relative workpackage priorities and funding requirements, and is constrained by the current fiscal guidance.
- In a 'What If' analysis, you might ask the computer to determine which workpackages would be funded given their current priorities and funding requirements, and the guidance available. You might also explore options to an existing 1 to N list by evaluating the impacts of push-arounds.
- Funded/Unfunded totals at all levels (i.e., Task, Project, PE, Subcategory, and Command) are merely the totals of the funded/unfunded workpackages.

3.5 DATABASE OVERVIEW

There are a total of 15 data files in the RDA-PC System. These files are divided into two categories as depicted in the figure on the next page. The lines which link files represent defined relationships between those files. Refer to Appendix B for a technical discussion of the data files and their contents.



CONTROL FILES - The Control Files limit the entries in the Data Files to approved values. These are the lists of approved Commands (CMD), Program Elements (PE), Milestones (MILELIST), Work Efforts (EFFTLIST), Flags (FLAGLIST), Systems (SSNLIST), Thrusts (THSTLIST), STOs (STOLIST) and TBIS Codes (TBISLIST). The System Administrator is the only user authorized to enter or modify data in these files. This prevents conflicting data being entered from two or more user sites.

DATA FILES - The Data Files contain the majority of the RDA-PC System database. These are hierarchically ordered by Project and Workpackage. Other related files branch off this list. This structure (and the Control Files) ensure that only valid data can be entered at any point. All users can enter data into the Data Files (with the exception of the Project File which is limited to the System Administrator for the purposes of controlling the project-level guidance).

3.6 PERMISSIONS

The password that you enter into the RDA-PC System determines what kind of user you are. There are three kinds of users, each with a different degree of access to the data. All users can print whatever data is available, and can use the Integrated Data View to look at the data.

System Administrator	-	Can enter/edit data in all files, including Control Files. Can set his password, the maximum data classification, and user password.
User	-	Can enter/edit data in selected Data Files. Can view all files. Can set his password.
View Only	-	Can view all files, but cannot modify any data.

EDITING THE RDA DATA

4.1 GENERAL

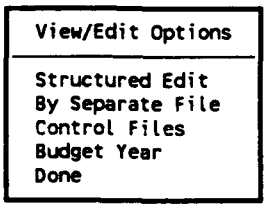
There are two modes for Editing and Viewing the RDA data - a 'Structured' mode and 'By Separate File' mode. You will use one or both of these methods when you have a requirement to enter or modify the RDA data. If you just need to look at the data, you should use the Integrated Data View (discussed in Section 5) instead.

You are probably already familiar with the 'By Separate File' mode. This is most like the RDAARS data entry screens. In this mode, you select a file to edit and then are placed in a window which shows the contents of a single record of that file. You advance the file to the desired record and then edit it.

In the 'Structured' mode, you access the specific record of interest by making use of the defined relationships between the files. (i.e., a Project has Tasks, which in turn has Work Statements, etc.) At any point in the 'Structured' mode, you can only access those records which pertain to the currently selected record in controlling file(s).

While both modes offer some advantages, you will find that the 'Structured' mode is significantly faster for most data entry because it automatically fills in controlling data for you. The 'By Separate File' mode is best for entering data into the Control Files because they are less easy to access in the structured mode.

Your first decision is to select the mode of viewing the RDA data. The following window appears for you to make this choice.



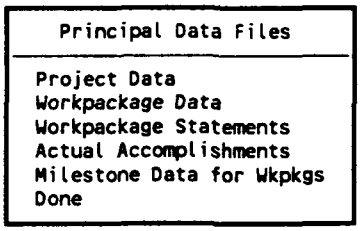
Select the mode you want for this session. You will stay in this mode until you return to this menu. Of course, at that point you can change modes.

4.2 EDITING BY SEPARATE FILE

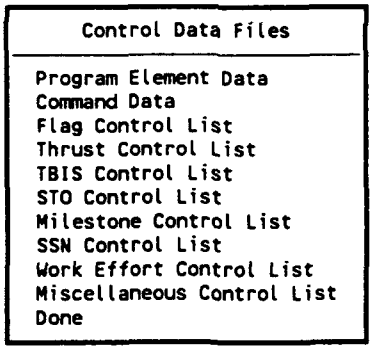
You can use this mode for entering and locating data in any of the data files. In each file, you will view the contents of one record at a time. You can skip through the file to find a specific record. Of course, you can edit, add, and delete records.

4.2.1 Selecting the File to Edit

Since it works on one file at a time, you are required to select a file to edit. A list of the principal data or control files is displayed for you to select from, as shown below:



OR

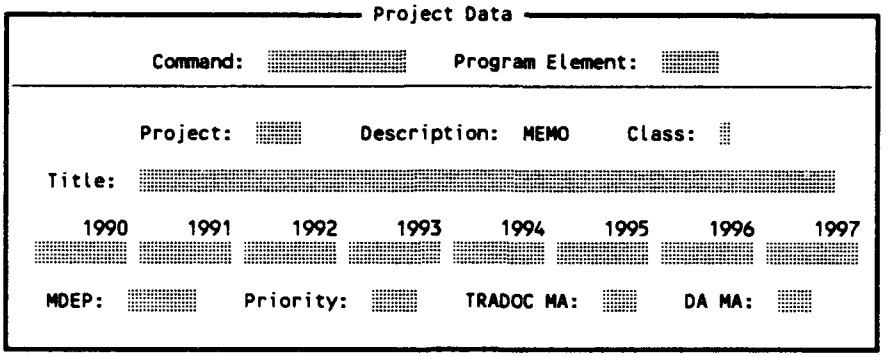


Select the file you want to edit by using the arrow keys to highlight the file and then pressing **Enter**. The file data window will then immediately open.

4.2.2 Viewing the Data

Each file has its own characteristic data window. In the example shown on the next page, the Project Data Window is depicted. It lists all the pertinent project-level data in the RDA-PC System. The data windows for each of the files are presented and discussed in Appendix A.

EXAMPLE DATA FILE WINDOW



Displayed above the window, across the top of the screen, are the menu options for this mode. They let you move around in the file, and to edit, add, and delete records. These options will be the same for all data file windows. These are shown in the following table:

MENU OPTIONS FOR VIEW/EDIT BY SEPARATE FILE

Option	Function	Ref Para
Edit	Edit the data in this record.	4.2.3 4.2.4
Add	Add a new record to this data file.	4.2.3 4.2.4
Delete	Delete/Undelete this record and all subordinate data.	4.2.5
Next	Skip to the next record (or use the **PgDn** key).	-
Previous	Skip to the previous record (or use the **PgUp** key).	-
Goto	Go to the Top or Bottom, or Search the data.	4.2.6
Browse	Browse the records in this file.	4.2.7
Quit	Return to the List of Files.	-

4.2.3 Editing the Data/Adding New Records

You edit the data in the current record by selecting the 'Edit' option from the menu. The menu clears, and the cursor is positioned on the first field below the line in the middle of the data window. The following message appears at the bottom of the screen:

Enter new data, ↑ or ↓ to skip fields, <PgDn> to exit

At this point you can type in new data at the cursor; use the Up and Down arrow keys to skip fields (or the **Enter** key); or use the **PgDn** key to exit the edit mode. The **Esc** key will also exit the edit mode, but it may leave some of the modifications unmade.

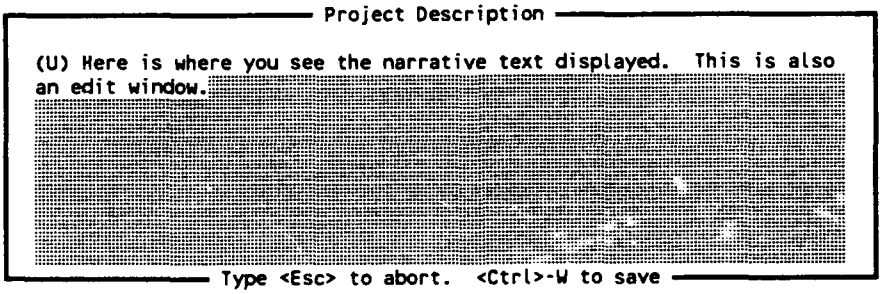
When you 'Add' a new record, the edit mode is also automatically entered with a blank record. Note that the data presented above the line are known as 'control data'. They are edited only when the record is being added.

In the edit process, each entry is checked to ensure that it is a valid entry with respect to the contract files. For example, the Command field can only be filled with a valid command which is already defined in the CMD file. Likewise, the PE field can only be filled with a valid PE which is already defined in the PE file. If an entry is not correct, then a menu of the allowable values will be presented for you to select from.

4.2.4 Editing Narratives

Fields which contain freeform text narratives are called 'memo' fields in the RDA-PC System and are indicated by the word 'MEMO' after the field title in the file window. Narrative fields are edited/viewed by pressing **Enter** when the edit cursor advances to the 'MEMO' field. A window opens displaying the field title and the narrative text, as shown below:

EXAMPLE NARRATIVE EDITING WINDOW



You can enter or edit the narrative text at this time using the full PC keyboard. Use the arrow keys to position the cursor within the text. The editor will wrap whole words at the end of each line, and will allow you to toggle the insert/overwrite mode using the **Ins** key. Press **CTRL-B** to reformat a paragraph. These narratives are limited to 600 characters each by the RDAARS (and by the corresponding field sizes in the RDA-PC System).

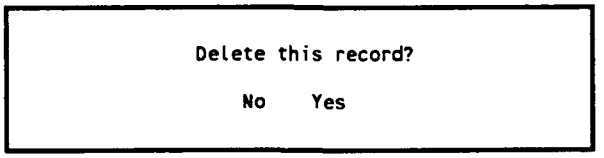
When you are done editing, press the **Ctrl** and **W** keys simultaneously to close the window and save the revised text. The **Esc** key will close the window without saving.

The narrative is always preceded by its classification marking (i.e., (U), (C), or (S)). If the marking is not present when the narrative is saved, the program will prompt you to select the correct classification and automatically insert the corresponding marking into the text.

4.2.5 Deleting Records

Deleting records is a tricky process because of the relationships among the files. The program makes sure that all defined relationships are maintained. Because of this, it is a powerful tool for rapidly and accurately removing blocks of data from the database (for example, prior to a re-merge).

You delete a record by selecting 'Delete' from the menu of options. The following window will pop-up for you to confirm this choice. It warns you that all data records subordinate to the current data record will also be deleted. For example, if you delete a workpackage (WKPKG), then the work statements (WKSTMT), actual accomplishments (ACTUAL), and milestones (MT) you have entered for that workpackage will also be deleted. This ensures that all data relationships are preserved, but more importantly, it lets you delete all the subsidiary data with a single action.

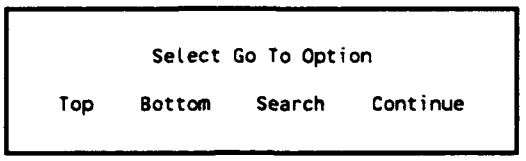


Deleted records are not actually removed from the database until you select the 'Pack' option from the System Utilities menu (see paragraph 8.4). Instead, deleted records are marked with the word 'Deleted' in the upper left edge of the box surrounding the data window. A deleted record will not be included in any of the Reports, in the Integrated Data View, or in the Data Export function. Deleted records are reported in the Check Database Validity function.

As long as you have not packed the database, the deleted records can be also be conveniently undeleted. Selecting the 'Delete' option at a record which is already deleted will cause the program to assume that you want to undelete this record and all subordinate records.

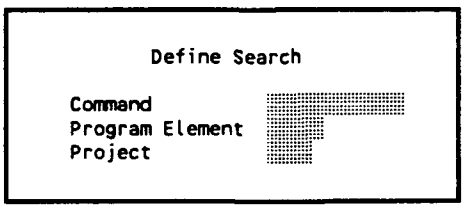
4.2.6 Locating Specific Records

You can rapidly advance the file to a specific record by using the 'Goto' menu option. The following window pops up to offer you four Go To choices:



'Top' and 'Bottom' advance the file to the first and last records in the file, respectively. More important for locating arbitrary data records are the 'Search' and 'Continue' options.

You select 'Search' if you are looking for records which have some characteristic data in the control field. The following window appears for you to define the search condition. You type in the characteristic data you are looking for next to the appropriate fields (leave the others blank).



The fields that are offered in the 'Search' depend upon the fields present in the current data file. You can define the contents of any or all of the fields as the search condition. Only the following fields will be offered (if they exist in the current data file):

Command	Workpackage
Program Element	Work Effort
Project	Task
Laboratory	FOE

'Search' begins at the top of the file and finds the first record matching the search condition. The next record meeting the search condition can be found by selecting the 'Continue' option. When no more records are found meeting the search condition, the data window will clear and report that fact.

4.2.7 Browsing the File

File browsing is offered as an alternate method of locating a specific data element. In a 'Browse' window, the data file is displayed as a table, with the rows being sequential records in the file, and the columns being fields in the file. The example below shows an example Browse window for the Project Data file.

Project Data

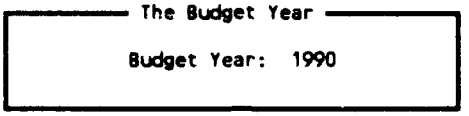
CMD	SUBCAT	PE	PROJ	MDEP	PRI	TRAD_MA	DA_MA	CLASS	FUND_YRO
BELVOIR	6.3A	63001	D150	RK09	0	STB	STB	U	2784
BELVOIR	6.3A	63001	DC44	RK09	0	STB	STB	U	0
BELVOIR	6.3A	63102	DJ01	RK02	0	STB	STB	U	2389
BELVOIR	6.3A	63606	D608	RK02	0	STB	STB	U	7786
BELVOIR	6.3B	63804	DG01	RF01	0	EMW	EMW	U	1512
BELVOIR	6.3B	63804	DG11	RJC9	0	CSS	CSS	U	1072
BELVOIR	6.3B	63804	DG14	RJC7	0	CSS	CSS	U	1476
BELVOIR	6.3B	63804	DK39	RJS2	0	CSS	CSS	U	0
BELVOIR	6.4	64713	D668	RJS1	0	CSS	CSS	U	17735
BELVOIR	6.4	64804	DH01	RF01	0	EMW	EMW	U	5573
BELVOIR	6.4	64804	DH14	RJC7	0	CSS	CSS	U	700
BELVOIR	6.4	64804	DL39	RJS2	0	CSS	CSS	U	0

Only fields whose length is less than 20 characters are included in the Browse window (which excludes all long titles and narratives). You can use the left and right arrow keys to view additional fields, if available, and the up and down arrow keys to move through the records of the file. You are not allowed to edit the contents of the file in the Browse window because it would be difficult to ensure that the proper relationships among the data files are maintained.

4.3 EDITING THE BUDGET YEAR

The Budget Year file is peculiar within the RDA-PC System. The Budget Year file exists solely to keep track of the first year of the funding data within the current database. It has only one record, to which you cannot 'Add' or 'Delete'. It has only one field, the actual budget year for the current data.

The file data window on the next page displays the contents of the Budget Year file.



The Budget Year interacts with the funding data in the Project and Workpackage data files. In those files, the funding fields are named 'FUND_YR0' through 'FUND_YR7'. The Budget Year is defined as 'YR0', so in this example with the Budget Year as 1990, the funding horizon is from 1990 through 1997. These are the years which are displayed in the data entry windows and in the printed reports. Because of the unique role of this file, different menu options are offered when editing this file.

MENU OPTIONS FOR VIEW/EDIT BUDGET YEAR

Option	Function	Ref Para
Edit	Edit the Budget Year - Do Not move the funding data.	-
Increment	Increment the Budget Year - Move the funding data.	-
Decrement	Decrement the Budget Year - Move the funding data.	-
Quit	Return to the List of Files.	-

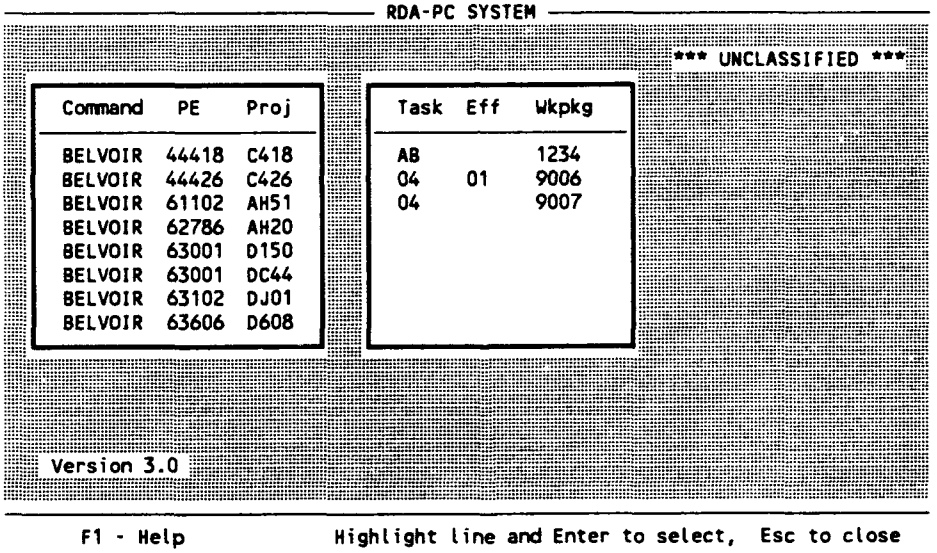
The 'Edit' option allows you to change the budget year without having any corresponding effect on the funding data (except to redefine the meaning of the fields 'FUND_YR0' through 'FUND_YR7').

'Increment' and 'Decrement' are designed so that you can naturally adjust your data for a change in the budget year (for example at the start of a new year), without having to retype all the existing funding data. 'Increment' will add one (1) to the Budget Year, and will shift all the funding data in the Project and Workpackage files to maintain the original relationship between year and funding. The funding in the year represented by 'FUND_YR7' will be zeroed because it has not yet been entered. Likewise, 'Decrement' will subtract one (1) from the Budget Year, shift the funding data, and zero out the funding in the year represented by 'FUND_YR0'.

4.4 STRUCTURED EDITING

Structured editing is best used for rapidly adding new data to the database. It uses the defined structure of the RDA-PC database to automatically fill in the controlling data in newly added records. You never have to enter values into the control fields (which are displayed above the line in the data windows).

Structured editing begins by clearing the screen, and then presenting a list of the projects that are contained in the database. You use the Up and Down arrow keys to select a project to view. Pressing **Enter** will bring up a list of the workpackages that are contained in that project. Similarly, you use the arrow keys to highlight some specific workpackage to view and then you press **Enter**. A sample of this screen is shown below.



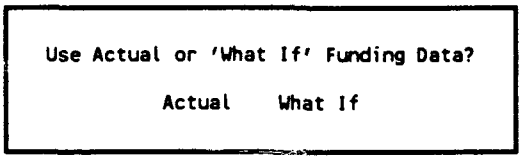
When you select a workpackage, you can directly edit that workpackage. Other windows can be accessed for the Actual (ACTUAL), Milestone (MT), and Work Statement (WKSTMT) files associated with that workpackage. The forward slash key '/' is the way you harness the power of the structured editing mode. The slash key brings up a menu of options, just like it does in Lotus 1-2-3. The fundamental structure to remember here is that each window, from left to right as it appears, represents a further subset of the data -- a subset which is decided by the items already selected at the higher levels.

INTEGRATED DATA VIEW

5.1 GENERAL

The Integrated Data View is provided for the manager or analyst who needs to review the RDA-PC data, and to perform 'What If' analyses using that data. It provides a convenient, user-friendly method of providing summary information at the project and task levels which would normally require a printed funding report.

An important feature of the Integrated Data View is that it provides you the funding totals at the project level. These are simply the accumulated funded/unfunded totals for the appropriate workpackages. The funded/unfunded status of each workpackage is determined by a funding flag. There are two such flags for each workpackage, the Actual F/U flag that you enter directly in the Workpackage Data Screen, and a second 'What If' flag reserved for use in 'What if' analyses. In the Integrated Data View, you can tell the program to use either the Actual or the 'What If' funding flags when computing the funded/unfunded totals. The following window appears as you enter the Integrated Data View module for you to select which flag to use.



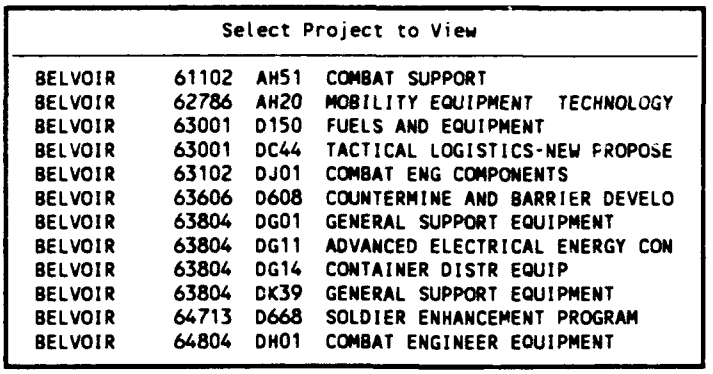
Most often you will want to use the Actual F/U flag in analyzing the data.

If you decide to select the 'What If' option, then you will be given an opportunity to have the 'What If' funding flags recomputed based upon the current project level guidance and workpackage priorities. This is an important capability with some significant enhancements over the RDAARS. In particular, you can choose if you want the system to recalculate the funding flags and you have several options of how you want them to be recalculated.

The 'What If' and Actual flags are separate and distinct fields so that a 'What If' analysis does not contaminate your primary data. The use of the 'What If' option is described in detail in paragraph 5.6 below.

5.2 VIEWING INTEGRATED DATA

The main entry point for the Integrated Data View is a list of the defined projects. In some respects, this is similar to the structure you have seen in the 'Structured' edit mode. You select a project to view, which then leads you to the workpackages in that project.



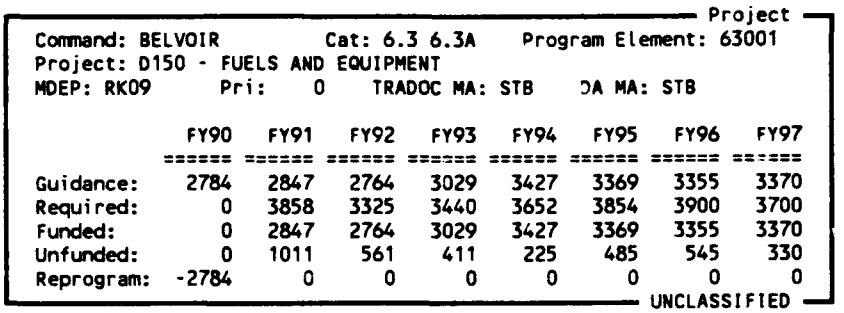
Select Project to View

BELVOIR	61102	AH51	COMBAT SUPPORT
BELVOIR	62786	AH20	MOBILITY EQUIPMENT TECHNOLOGY
BELVOIR	63001	D150	FUELS AND EQUIPMENT
BELVOIR	63001	DC44	TACTICAL LOGISTICS-NEW PROPOSE
BELVOIR	63102	DJ01	COMBAT ENG COMPONENTS
BELVOIR	63606	D608	COUNTERMINE AND BARRIER DEVELO
BELVOIR	63804	DG01	GENERAL SUPPORT EQUIPMENT
BELVOIR	63804	DG11	ADVANCED ELECTRICAL ENERGY CON
BELVOIR	63804	DG14	CONTAINER DISTR EQUIP
BELVOIR	63804	DK39	GENERAL SUPPORT EQUIPMENT
BELVOIR	64713	D668	SOLDIER ENHANCEMENT PROGRAM
BELVOIR	64804	DH01	COMBAT ENGINEER EQUIPMENT

The first window to appear is the list of projects. Select a project to view by highlighting it and pressing **Enter**.

5.3 PROJECT INTEGRATED VIEW

The Project Integrated View window for the selected project appears next, as shown below. It may take a few seconds to be completely drawn since the program must compute the totals of the funded and unfunded workpackages within the project and must prepare the 1 to N workpackage list.



Project

Command: BELVOIR Cat: 6.3 6.3A Program Element: 63001
Project: D150 - FUELS AND EQUIPMENT
MDEP: RK09 Pri: 0 TRADOC MA: STB DA MA: STB

	FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Guidance:	2784	2847	2764	3029	3427	3369	3355	3370
Required:	0	3858	3325	3440	3652	3854	3900	3700
Funded:	0	2847	2764	3029	3427	3369	3355	3370
Unfunded:	0	1011	561	411	225	485	545	330
Reprogram:	-2784	0	0	0	0	0	0	0

UNCLASSIFIED

Besides the required, funded, and unfunded totals computed from the workpackages, the window also includes the project-level guidance (as entered in the Project File Window) and the difference between the guidance and the funded amounts (the 'reprogram' amounts). Of course, the 'reprogram' amounts will be zero when the total of the funded workpackages exactly matches the guidance available in that project. A negative balance indicates that guidance is not completely consumed, and a positive balance indicates that the guidance is exceeded.

The top of the window displays the general project information (Command, Subcategory, PE, Project Number and Title, MDEP and DA priority, and Mission Area). These lines will remain visible as the subordinate data is displayed.

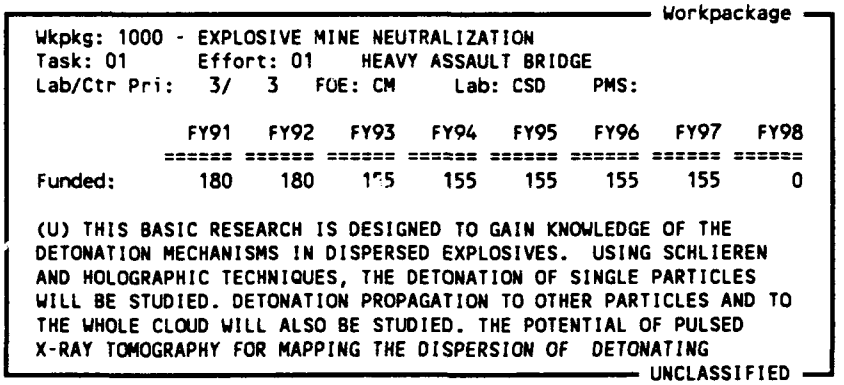
At the top of the screen, a menu of options is presented for you to view additional information about this project. The following table describes the options.

PROJECT INTEGRATED VIEW OPTIONS

Option	Function	Ref Para
Wkpkg	View the Workpackage in this Project.	-
Description	View the Project Description. Opens a view window to the display the text.	-
1 to N	Display/Edit Workpackages in 1 to N Order.	5.5
Quit	Return to the List of Projects.	5.2

5.4 WORKPACKAGE INTEGRATED VIEW

The Workpackage Integrated View appears when a specific workpackage is selected. As shown below, it includes the workpackage-level information (Workpackage Number, Title, Priority, and F/U flag). Then it presents the workpackage funding, either as funded or as unfunded, depending upon the F/U flag. Note that the funding will be either the Actual or the 'What If' funding depending upon the mode you chose when you entered the Integrated Data View.



At the top of the screen, a menu of options is presented for you to view additional information about this workpackage. The following table describes the options.

WORKPACKAGE INTEGRATED VIEW OPTIONS

Option	Function	Ref Para
Desc	View the Workpackage Description. Opens a view window to display the text.	-
GoTo	GoTo a specific Workpackage.	-
Links	Display the links for this Workpackage.	-
Stmts	List the Work Statements for this Workpackage. Then select a year to view its text.	-
MTs	Show the Milestones for this Workpackage.	-
History	Display the Funding History for this Workpackage.	5.4.1
Quit	Return to the List of Workpackages.	5.4

Workpackage History is only available from the Workpackage Integrated view, unlike most other features which are available in Edit/View RDA Data mode as well.

5.4.1 History

History shows the funding for this workpackage by archived data set. The current database funding is listed as TODAY. Archived data set are listed by their archive name.

Historical Funding Data

YEAR	SET	F	FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
1990	TODAY	F	0	180	180	155	155	155	155	155
1990	POM	F	0	180	180	155	155	155	155	155
1990	BES2	F	0	180	180	155	155	155	155	155

Data sets are archived through the 'History/Archived Data' selection from the main menu. The example shown above indicates that the workpackage has not changed funding profile over the two archived data sets and current data.

5.5 1 to N WORKPACKAGE LIST

The 1 to N Workpackage List is a particularly important feature of the Integrated Data View. It allows you to view the workpackages in the selected project in 1 to N order, without having to print a report. As discussed in this paragraph, it also allows you to modify the workpackage funding flags, priorities, and funding requirements to generate an alternate funding strategy.

When you select '1 to N' from the Project Integrated View options, a window, such as the one below appears to display the workpackages of the current project in 1 to N order. Funded workpackages are listed before the unfunded workpackages, and then they are listed in priority order. The flag used to determine which are funded/unfunded will be the Actual (ACT) or the 'What If' (WIF) flag, depending upon the mode set at the outset in the Integrated Data View.

1 to N Workpackages

TASK	WKPKG	TITLE	PRI	ACT	WIF	FY90	FY91	FY92
07	5033	JP-8 DEMO PROG	1	F	F	0	1047	1074
08	5045	LT FOR LVF	2	F	F	0	200	0
06	5001	PFC QUAL MON	3	F	F	0	180	330
07	5004	TD ON NPT	4	F	F	0	250	225
08	5048	AC & LUBES QUAL	5	F	F	0	300	0
07	5034	N-F HYD FL ASM	6	F	F	0	300	400
06	5000	PO LUB QUAL MON	7	F	F	0	270	210
07	5035	IMP LUBES & FLUI	8	F	F	0	300	525
07	5037	C/OC TAC ENG OIL	9	F	F	0	0	0
07	5036	IMP MIL ANTIFR	10	F	F	0	0	0
06	5002	F/L/F QA KIT	11	F	F	0	0	0
08	5046	AF & LQ	12	F	F	0	0	0
07	5041	TD ON NPT	13	F	F	0	0	0

This is a 'browse' window. You can use the arrow keys to scroll up and down through the list, and to highlight individual fields.

This is also an 'edit' window for some of the fields. You can edit only the workpackage priority, the active funding flag (ACT or WIF), and the funding amounts. To edit an entry, simply highlight the value you wish to change and then type in the new value. If the priority order of the 1 to N list is changed, it will automatically be redrawn after you edit.

When you edit this 1 to N data, you are actually editing a copy of the workpackage data which is stored in a separate file. When you leave the 1 to N list, you can have the changes copied to the actual Workpackage Data File. Then the funded/unfunded totals and the reprogramming amounts will be recomputed and displayed for the funding strategy you have entered.

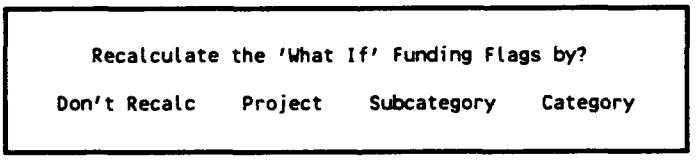
5.6 COMPUTING 'WHAT IF' FUNDING FLAGS

When you create a workpackage, you define its actual funding flag as an 'F' or a 'U' and funding values (fields WIF_YR0 through WIF_YR7). Internally, the program maintains a second flag, called the 'What If' funding flag (field F_UT) that it uses for 'What If' analyses. Initially, the 'What If' flag is given the same value as the actual funding flag, but after that it can be changed independently of the actual flag.

A 'What If' analysis can be performed automatically by the RDA-PC System. It is designed to identify what workpackages would be funded if you were to step through them sequentially, in priority order, and fund them until the project level guidance were exhausted. Naturally, this depends upon the current state of the guidance, the workpackage requirements, and their relative priorities.

Note that the RDAARS performs a similar function when it recalculates the funded/unfunded amounts for workpackages. There are, however, some differences between the RDA-PC and the RDAARS in that regard. These will be discussed in detail a bit later on.

In the Integrated Data View, when you select the option of using the 'What If' funding flags, you are offered the following choices concerning the current values of the 'What If' funding flags.



The first choice is the one you will normally select. Most often, you will want to manually adjust the 'What If' funding flags (through the 1 to N Workpackage List described in the previous paragraph). In this case, you do not want the RDA-PC System to overwrite the flags you might have already entered. Select 'Don't Recalc' and the program will retain the current 'What If' funding flags.

If you do decide to recalculate the flags, then you have a choice among three methods.

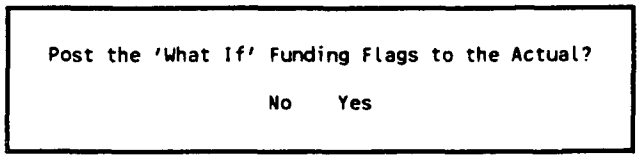
The first method is to recalculate by 'Project'. This method assumes that the project guidance can only be expended on workpackages within that project, even though there might be unfunded workpackages of higher priority in other projects. The program works project by project, allocating the guidance to fund workpackages only within that project.

The second method is to recalculate by 'Subcategory'. This method assumes that the project level guidance will be expended on the highest priority workpackages within the project's subcategory. This can lead to reprogramming decisions among projects in the same subcategory in order to fund the highest priority workpackages. For example, if you had two 6.3A projects, then their guidance would first be added together to get the total guidance for that subcategory. Then, their workpackages would be sorted together into a single list by priority. Finally, they would be funded by stepping down the list until the aggregate guidance was exhausted.

The third method is to recalculate by 'Category'. This method is similar to the 'Subcategory' method described above, except that the projects/workpackages in the subcategories 6.3A, 6.3B, 6.4, 6.5, and 6.7 are grouped into the single category '6.3'. This method is the one most similar to the recalculation performed within the RDAARS when it assigns funded/unfunded amounts to workpackages.

> Note: This method differs from the RDAARS as follows: The RDAARS assigns partial funding to workpackages on the dividing line between funded and unfunded, so as to completely exhaust the guidance. Because of timing problems, the guidance in all years is not always exhausted at the same workpackage - so workpackages in the vicinity of the funding cutoff could be completely funded, partially funded, or completely unfunded from year to year. The RDAARS technique does not make business sense. In contrast, the RDA-PC System completely funds or completely unfunds workpackages. The dividing line is drawn whenever the guidance in any year is insufficient to fund the next workpackage in priority order. This method may leave some of the guidance unused, and that is a matter for analysis and resolution during budget reviews.

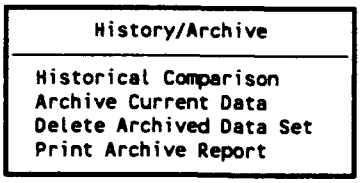
After a session of using the 'What If' funding flags, the program offers you the opportunity to transfer the 'What If' flags to the actual flags. This is an option that you would rarely select. Normally, you would want to decide manually which workpackages were funded and which were unfunded. When the RDA-PC System performs a 'What If' recalculation, it writes only to the 'What If' flags. Through this option, you can have the results of the 'What If' analysis adopted as the actual funding flags.



HISTORY/ARCHIVED DATA

6.1 GENERAL

The 'History/Archive Data' option allows you to compare the workpackage level funding status at different points in time. This feature is useful in seeing trends in funding/budget requests, and provides an 'audit trail' for management to use in evaluating workpackage priority.



The four options from the History/Archived Data menu are:

Historical Comparison:	Historical comparison of two data sets. See paragraph 6.2 for options and examples.
Archive Current Data:	Archives the current data set into the archive file. See paragraph 6.3 for options and examples.
Delete Archived Data Set:	Deletes a data set from the archive file. See paragraph 6.4 for options and examples.
Print Archive Report:	Provides details on all the data sets in the archive file. See paragraph 6.5 for options and examples.

The archived data are managed in two database files, 'archlist.dbf' and 'archive.dbf'. The file 'archlist.dbf' keeps track of the date/time at which the RDA data was archived, its stated title or purpose, and the budget year it represents. The file 'archive.dbf' actually contains the workpackage level funding information for that point in time.

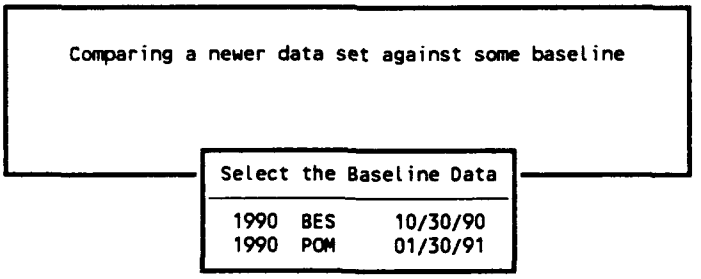
You can have many archived data sets. Usually a data set would be saved to mark a certain event or milestone in the budget process. Over time, a historical record of the trends in workpackage funding requests will be available for your review and analysis.

You have already seen one example of its use in the Integrated Data View, Para 5.5.1, where previous workpackage funding positions are compared with the current status. In this section, you get the ability to perform larger historical analyses. Comparisons could be made to analyze the changes to the RDA database produced by an event or over a time period of years or months.

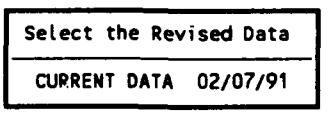
6.2 HISTORICAL COMPARISON

Since only one data set can be current (active), the Historical Comparison compares one archived data set with a newer data set. This is in the form of a "delta report" which can be viewed interactively or printed.

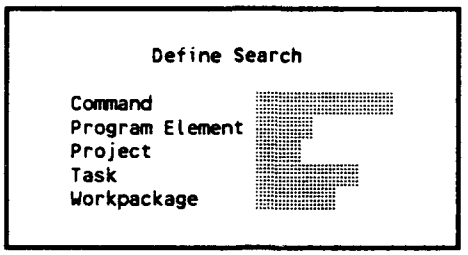
First the baseline data (older) set must be selected from the archive file. The name of the archived data set, the budget year of its data and the date it was archived identify the data sets. Move the highlight bar and select one of the archived data sets for the baseline.



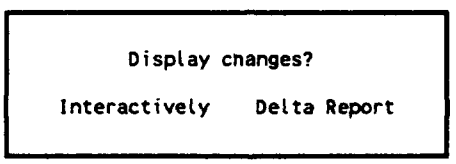
Next, the current data set and archived data sets newer than the selected baseline data set are displayed in the Revised Data window. Select the data set to compare with the baseline data. In the sample below, only the Current Data is newer than the baseline data set.



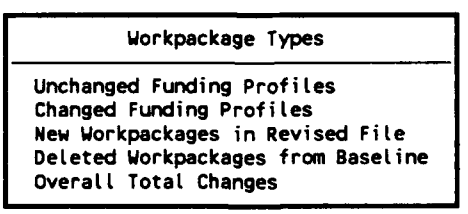
You are allowed to indicate the search criteria to tailor the comparison. For example, you might only want to compare the workpackages in a single project. Leave fields blank to select all data.



Once the search criteria is defined, the revised and baseline data files are built from their archived information and changes are identified and classified before the comparison results are ready for viewing. Changes can be displayed interactively or printed to a delta report.



If **Interactively** is selected, then the Workpackage Types Window appears. Workpackages are classified into four categories: (1) workpackages that have not changed funding, (2) workpackages that have funding changes to include changes in the Funded/Unfunded Flag, (3) new workpackages that did not exist in the baseline data set, and (4) old workpackages that no longer exist in the revised data set. In addition, overall total changes are summarized in a fifth view. To view the results, select a comparison option. These options are explained in detail in Sections 6.2.1 through 6.2.5.



If **Delta Report** is selected, then a report is written which lists the differences between the Baseline and Revised files. Only changed, new or deleted workpackages are reported. An example of a Delta Report is presented on the next page.

SAMPLE DELTA REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

DELTA REPORT ($K) - Current vs 1990 POM

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1G01
Title: MICROWAVE DETECTION PROCESSES

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	U	0	168	176	176	189	350	175	200
1990 POM	F	0	168	176	176	189	350	175	200
Funded Delta		0	(168)	(176)	(176)	(189)	(350)	(175)	(200)

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 9070
Title: STUDY OF ELECTROMAGNETIC ENERGY INTERACTION W/MINE FUZE-UNF

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	U	0	0	120	110	125	0	0	0
1990 POM	U	0	0	120	125	125	0	0	0
Funded Delta		0	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: ABCD
Title: THIS IS A TEST TITLE

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	F	0	0	0	0	0	0	0	0
Workpackage Not in Base File									
Funded Delta		0	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.2 PE: 62786 Proj: AH20 Task: 02 Wkpkg: 9150
Title: ADVANCED GAP CROSSING - FUNDED

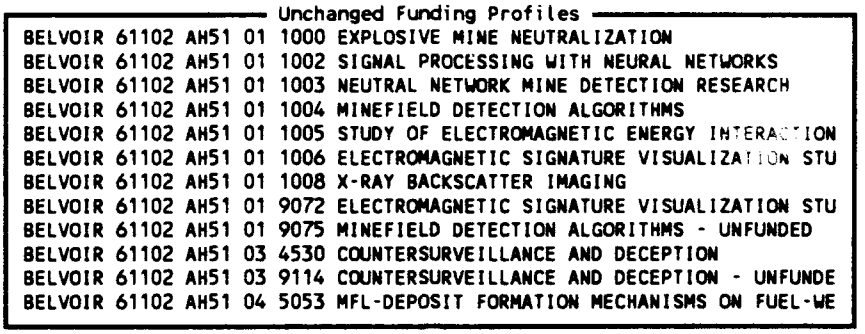
		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	F	0	250	350	350	400	500	600	700
1990 POM	U	0	250	350	350	400	0	0	0
Funded Delta		0	250	350	350	400	500	600	700

Cmd: BELVOIR Cat: 6.2 PE: 62786 Proj: AH20 Task: 03 Wkpkg: 4012
Title: IR SCREEN COATINGS

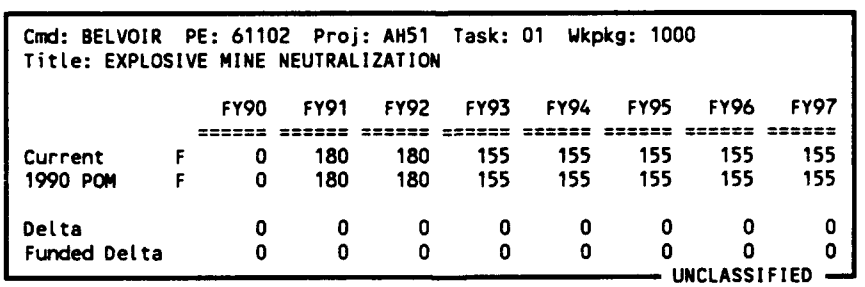
		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	F	0	0	0	0	0	0	0	0
Workpackage Not in Base File									
Funded Delta		0	(200)	(150)	(100)	0	0	0	0

6.2.1 Unchanged Funding Profiles

The 'Unchanged Funding Profiles' provides a list of all workpackages that have identical funding in the Baseline and Revised files. The arrow keys scroll the list in the window.



Selecting any item from this list brings up a window with the funding details. This window shows funding by fiscal year for the Baseline file (1990 POM in this example) and the Revised file (the Current database). Since the funding is unchanged for this workpackage, the deltas are all zero. If there are no unchanged funding profiles to list, a message window appears to inform you.



The row labeled "Delta" is the absolute difference between the Baseline and Revised funding data. The "Funded Delta" is the funded difference which takes into account the Funded/Unfunded status field. If both the Baseline and Revised amounts are unfunded, then the funded delta is zero. If only one is funded, then the funded delta will be the newly funded amount (or the previously funded amount). If both are funded, then the funded delta will equal the absolute delta.

6.2.2 Changed Funding Profiles

The 'Changed Funding Profiles' provides a list of all workpackages that have different funding in the Baseline and Revised files. Selecting any item from this list brings up the funding details window described above (See Section 6.2.1). This window shows funding by fiscal year for the Baseline file and the Revised file, total funding difference between the two files for that workpackage and funded difference between the two files. A message window appears if there are no workpackages with funding changes.

6.2.3 New Workpackages in Revised File

The 'New Workpackages In Revised File' provides a list of all workpackages that are in the Revised file and not in the Baseline file. Selecting any item from the list brings up the funding details window described above (See Section 6.2.1). This window shows the Revised file's funding (the Baseline funding is zero). A message window appears if no new workpackages exist.

6.2.4 Deleted Workpackages from Baseline

The 'Deleted Workpackages From Baseline' provides a list of all workpackages that are in the the Baseline file and are not in the Revised file. Selecting any item from the list brings up the funding details window described above (See Section 6.2.1), which shows funding for the Baseline file (Revised funding is zero). A message window appears if no workpackages have been deleted from the Baseline.

6.2.5 Overall Total Changes

Up to this point, the changes have been presented at the workpackage level. The 'Overall Total Changes' presents the cumulative differences between the Revised and the Baseline files. You may have to wait a few seconds while the program computes the total changes and reports them to the screen.

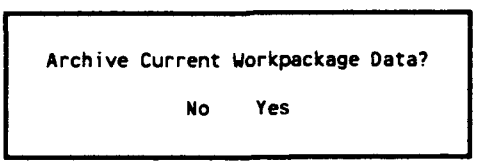
A sample of this window is shown on the next page. The Revised and Baseline total funding is displayed by fiscal year. Only funding for the overlapping years (a maximum of eight) are shown. Funded program totals are presented on the top half of the window and unfunded programs on the bottom half. In their respective halves, the funded and unfunded deltas are provided.

OVERALL TOTALS AND DELTAS

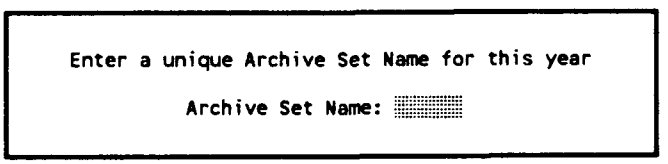
		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97
Current	F	0	73013	84681	78841	74051	69400	72168	71567
1990 POM	F	0	72931	84507	78667	73840	69250	71743	71067
Funded Delta		0	82	174	174	211	150	425	500
Current	U	0	24658	26534	22138	21975	15812	19023	20818
1990 POM	U	0	24740	26708	22327	22186	15462	18848	20618
Unfund Delta		0	(82)	(174)	(189)	(211)	350	175	200

6.3 ARCHIVE CURRENT DATA

The workpackage data of the current database can be written to the archive file so that historical comparisons can be made against archived data sets and the current database. Archiving the database, in a sense, freezes it in time. Many changes can be made to the database and then compared to the "frozen" archived data sets. Often the database is archived before a budget drill and then new database is compared against the pre-drill database to identify all the changes made during the drill. Another use might be for comparing workpackage funding budgets from year to year.



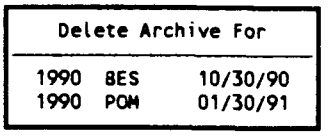
When you archive the current database, you are asked for a unique name for the archived data set. The base year will automatically appear with the archive set name in archive data set lists, so you need not incorporate the year in the name.



This is the name that will be used in all subsequent reports using this archived data set.

6.4 DELETE ARCHIVED DATA SET

Archived data sets in the archive file can be deleted at any time. Simply select the data set from the archive file you want to delete and confirm the deletion.



They are physically removed from the file and cannot be later retrieved, so be careful when you delete an archived data set.

6.5 PRINT ARCHIVE REPORT

The Archive Report lists all the information stored in the archive file for each data set. It is organized and presented by workpackage. One line describes the workpackage by its command, category, program element, project, task, and workpackage number. Other lines are printed for each archived data set that contains the workpackage. It indicates whether the workpackage is funded or unfunded, funding by fiscal year, and the workpackage title for the archived data set. An example of an Archived Report is provided on the next page.

SAMPLE ARCHIVE REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

ARCHIVED DATA REPORT ($K)

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1000

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97	
1990 POM	F	0	180	180	155	155	155	155	155	EXPLOSIVE MINE NEUTRALIZATION

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1001

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97	
1990 POM	F	0	168	176	176	189	350	175	200	MICROWAVE DETECTION PROCESSES

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1002

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97	
1990 POM	F	0	260	74	134	117	100	100	100	SIGNAL PROCESSING WITH NEURAL NETWORKS

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1003

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97	
1990 POM	F	0	90	54	100	100	109	100	100	NEUTRAL NETWORK MINE DETECTION RESEARCH

Cmd: BELVOIR Cat: 6.1 PE: 61102 Proj: AH51 Task: 01 Wkpkg: 1004

		FY90	FY91	FY92	FY93	FY94	FY95	FY96	FY97

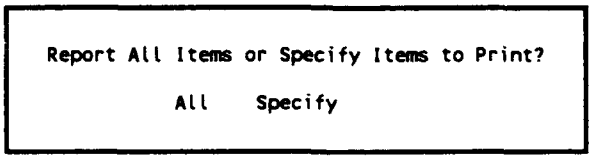
1 to N Reports:	List the workpackages in priority order and total the funded and unfunded amounts for use in decision-making. See paragraph 7.6 for options and examples.
MAMP/RAU/Other:	Mission Area Material Plan (MAMP) reports: System List, System Summary, Project-Workpackage Report, FOE by Category Report and Workpackage Summary.
Wkpkg Listing:	Lists the selected fields from the workpackage file.
Wkpkg Text File:	Creates a text file containing the current data set's workpackage data and narratives.
View Text Files:	Provides access to a file viewer that lets you look at the reports you have printed to a file.

Because the RDA-PC System is primarily a budget planning tool, these printed reports are centered around the funding aspects of the RDA programs. The funded status of each workpackage is determined by a funding flag. There are two such flags for each workpackage, the Actual F/U flag that you enter directly in the Workpackage Data Screen, and the 'What If' flag that is automatically filled during 'What If' 1 to N analyses. In the printed reports, you can use either the Actual or the 'What If' funding flags at the workpackage level when computing the funded/unfunded amounts. The window shown on the next page appears as you enter the Printed Reports module for you to select which flag to use.

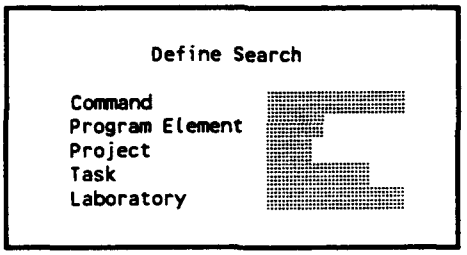
7.2 SELECTING REPORT ITEMS

If you want to, you can print a report of only selected items from the RDA-PC database. You might, for example, only want to print the Workpackage Detail Report for those workpackages in a single project. This could substantially cut down on the number of pages printed (and hence speed your work).

After you select the specific report that you want to print, you are offered the opportunity to specify the items to print.

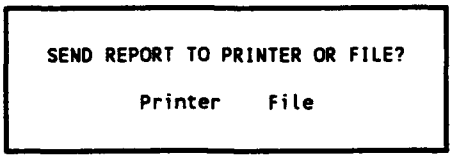


If you decide to specify the items tc print, then the 'Define Search' window appears. This is the same window that you used in the 'Goto' menu option during file editing. Again, you are allowed to only enter the search criteria appropriate for the report being produced. The example shown below is for the Task-level Funding and Detail Reports.



7.3 SELECTING REPORT DESTINATION

Another common step in printing a report is deciding where to send the report. The report can either be printed directly to the system printer, or it can be printed to a file. The window shown below pops up for you to make this selection.

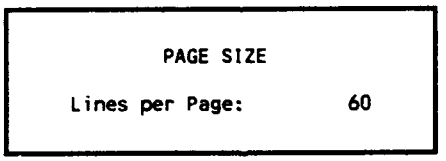


Printing to a file can be a very helpful alternative to using a printer. A report can be:

(1) Printed more quickly to a file than to a printer.
(2) Printed on paper at a later date when you have more time.
(3) Transferred to some other computer for printing or analysis.
(4) Viewed/Previewed within RDA-PC System using the 'System Utilities' - 'View Text Files' option to decide whether it actually needs to be printed on paper or not.

If you decide to print to a file, another window will pop-up for you to enter the file name. If the file name already exists in your current directory, then it will ask if you want to overwrite it or reenter a different filename.

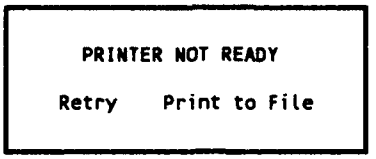
Before the report is printed you are asked the number of lines to be put on a printed page. This depends mostly on the printer and the font you are using. The default value is 60 lines, which corresponds to the default number of lines for a HP Laserjet II in portrait mode. This allows a margin of 3 or 4 lines at the top and the bottom of the page. If you are not using the Laserjet, you will have to experiment with your printer and with the page alignment to determine the correct number of lines to use for your printer.



Most of the reports produced by the RDA-PC System are 80 characters wide. They will fit on almost all printers using a 10 pitch font and 8 1/2" by 11" paper (letter size).

If you send a report to the printer and an error occurs, you can redirect printing to a file. A "Printer Not Ready" error can happen for several reasons; the most common are:

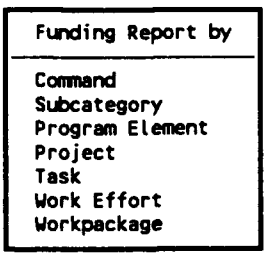
- no printer found connected to your computer
- the printer is not on line
- the printer not turned on
- the printer out of paper



Check the printer and retry printing, or send the report to a file to be printed later.

7.4 PRINTING FUNDING REPORTS

The Funding Report is the most frequently demanded report. It briefly summarizes the funded/unfunded status of the database. The Funding Report can be obtained at various levels of detail. Select the desired level of detail for the Funding Report from the following menu.



At each level, the totals of the funded/unfunded workpackages are summarized in a basic eight (8) line per item record:

```
Item Identifying Data (e.g., Cmd, Cat, Subcat, PE, Proj, Task, Wkpkg, Flag)
Title of the Item

                FY1990  FY1991  FY1992  FY1993  FY1994  FY1995  FY1996  FY1997
               ======= ======= ======= ======= ======= ======= ======= =======
    Required:          (Total of the Funded and Unfunded Workpackages)
    Funded:                  (Total of the Funded Workpackages)
    Unfunded:               (Total of the Unfunded Workpackages)
```

Naturally, the Workpackage Funding Report presents simply the basic funded/ unfunded status of the workpackage. At levels from Task through Command, the Funding Report aggregates the workpackage funding at the desired level.

At the Project level, two additional lines of funding information are added. These are the project guidance (called Guidance), and the difference between the guidance and the funded totals (called Reprogram). At the Workpackage level, the FOE and PMS data are also presented on a separate line for each workpackage.

Samples of each of these reports are provided on the next five pages.

SAMPLE COMMAND FUNDING REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

COMMAND FUNDING REPORT ($K)

Cmd: BELVOIR

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	86753	102490	93656	86225	74271	81217	84016
Funded:	0	62013	75932	71479	64204	58809	62369	63398
Unfunded:	0	24740	26558	22177	22021	15462	18848	20618

Cmd: PM-AWC

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	7737	4465	2191	4334	3500	3450	740
Funded:	0	7737	4465	2191	4334	3500	3450	740
Unfunded:	0	0	0	0	0	0	0	0

Cmd: PM-MEP

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	0	0	0	0	0	0	0
Funded:	0	0	0	0	0	0	0	0
Unfunded:	0	0	0	0	0	0	0	0

Cmd: PM-PWL

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	3181	4260	5147	5467	6941	5924	6929
Funded:	0	3181	4110	4997	5302	6941	5924	6929
Unfunded:	0	0	150	150	165	0	0	0

SAMPLE SUBCATEGORY FUNDING REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

SUBCATEGORY FUNDING REPORT ($K)

Cmd: BELVOIR Cat: 6.1 6.1
Title: RESEARCH

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	1926	1602	1630	1638	1529	1356	1387
Funded:	0	1661	1192	1165	1158	1199	1236	1272
Unfunded:	0	265	410	465	480	330	120	115

Cmd: BELVOIR Cat: 6.2 6.2
Title: EXPLORATORY DEVELOPMENT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	21983	21118	23683	23078	19533	19042	20147
Funded:	0	13553	12730	13308	13561	14607	14888	15370
Unfunded:	0	8430	8388	10375	9517	4926	4154	4777

Cmd: BELVOIR Cat: 6.3 6.3A
Title: NONSYSTEM ADVANCED DEVELOPMENT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	16465	13450	15840	19373	18966	25197	27827
Funded:	0	14804	10989	12054	12459	12735	12813	13451
Unfunded:	0	1661	2461	3786	6914	6231	12384	14376

Cmd: BELVOIR Cat: 6.3 6.4
Title: ENGINEERING DEVELOPMENT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	15425	35482	23736	12366	9403	12300	13307
Funded:	0	8723	25082	18686	9116	6103	10700	11957
Unfunded:	0	6702	10400	5050	3250	3300	1600	1350

Cmd: BELVOIR Cat: 6.3 6.5
Title: MANAGEMENT AND SUPPORT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	23181	20855	19007	18666	18820	16047	14290
Funded:	0	18799	18056	18056	18056	18670	16047	14290
Unfunded:	0	4382	2799	951	610	150	0	0

SAMPLE PROGRAM ELEMENT FUNDING REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

PROGRAM ELEMENT FUNDING REPORT ($K)

Cmd: BELVOIR Cat: 6.1 6.1 PE: 61102
Title: COMBAT SUPPORT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	1926	1602	1630	1638	1529	1356	1387
Funded:	0	1661	1192	1165	1158	1199	1236	1272
Unfunded:	0	265	410	465	480	330	120	115

Cmd: BELVOIR Cat: 6.2 6.2 PE: 62786
Title: MOBILITY EQUIPMENT TECHNOLOGY

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	21983	21118	23683	23078	19533	19042	20147
Funded:	0	13553	12730	13308	13561	14607	14888	15370
Unfunded:	0	8430	8388	10375	9517	4926	4154	4777

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001
Title: FUELS AND LUB ADV DEV

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	3858	5175	5315	5530	6754	6550	5800
Funded:	0	2847	3264	3529	4316	4219	4805	4820
Unfunded:	0	1011	1911	1786	1214	2535	1745	980

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63102
Title: COMBAT ENG COMPONENTS

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	3248	2186	2855	2641	2212	2347	2247
Funded:	0	2598	1636	1855	2041	1912	1997	2097
Unfunded:	0	650	550	1000	600	300	350	150

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63606
Title: LANDMINE WAR & BARRIER DEVELOPMENT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	9359	6089	7670	11202	10000	16300	19780
Funded:	0	9359	6089	6670	6102	6604	6011	6534
Unfunded:	0	0	0	1000	5100	3396	10289	13246

SAMPLE PROJECT FUNDING REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

PROJECT FUNDING REPORT ($K)

Cmd: BELVOIR Cat: 6.1 6.1 PE: 61102 Proj: AH51
Title: COMBAT SUPPORT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	1926	1602	1630	1638	1529	1356	1387
Funded:	0	1661	1192	1165	1158	1199	1236	1272
Unfunded:	0	265	410	465	480	330	120	115
Guidance:	1546	1661	1192	1165	1158	1199	1236	1272
Reprogram:	-1546	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.2 6.2 PE: 62786 Proj: AH20
Title: MOBILITY EQUIPMENT TECHNOLOGY

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	21983	21118	23683	23078	19533	19042	20147
Funded:	0	13553	12730	13308	13561	14607	14888	15370
Unfunded:	0	8430	8388	10375	9517	4926	4154	4777
Guidance:	13386	13553	12730	13308	13561	14607	14888	15370
Reprogram:	-13386	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150
Title: FUELS AND EQUIPMENT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	3858	3325	3440	3652	3854	3900	3700
Funded:	0	2847	2764	3029	3427	3369	3355	3370
Unfunded:	0	1011	561	411	225	485	545	330
Guidance:	2784	2847	2764	3029	3427	3369	3355	3370
Reprogram:	-2784	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: DC44
Title: TACTICAL LOGISTICS-NEW PROPOSED 6.3A PROJECT

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	0	1850	1875	1878	2900	2650	2100
Funded:	0	0	500	500	889	850	1450	1450
Unfunded:	0	0	1350	1375	989	2050	1200	650
Guidance:	0	0	500	500	889	850	1450	1450
Reprogram:	0	0	0	0	0	0	0	0

SAMPLE WORKPACKAGE FUNDING REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

WORKPACKAGE FUNDING REPORT ($K)

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150 Task: 06 Wkp: 5000
Title: PORTABLE LUBE QUAL MONITOR FOE: F&L
PMS:

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	270	210	0	0	0	0	0
Funded:	0	270	210	0	0	0	0	0
Unfunded:	0	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150 Task: 06 Wkp: 5001
Title: PORTABLE FUEL CETANE QUAL MONITOR FOE: F&L
PMS:

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	180	330	375	300	0	0	0
Funded:	0	180	330	375	300	0	0	0
Unfunded:	0	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150 Task: 06 Wkp: 5002
Title: FUEL/LUBES/FLUID QUALITY ASSURANCE MONITORS FOE: F&L
PMS:

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	0	0	120	150	460	400	400
Funded:	0	0	0	120	150	460	400	400
Unfunded:	0	0	0	0	0	0	0	0

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150 Task: 07 Wkp: 5004
Title: TECH DEMO ON NEW PRODUCT TECHNOLOGIES FOE: F&L
PMS:

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	250	225	310	300	300	315	325
Funded:	0	250	225	310	300	300	315	325
Unfunded:	0	0	0	0	0	0	0	0

*** UNCLASSIFIED *** 13:26 07/11/90

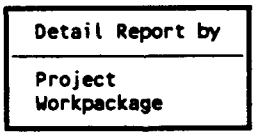
7.5 PRINTING DETAIL REPORTS

The Detail Report provides the full details at the Project or Workpackage levels. This includes the same funding information presented in the Funding Reports, as well as all related narratives, milestones, flags, and systems.

Only information appropriate for the selected level is printed. For example, the Project Detail Report includes the project description and the reprogramming rationales, but it does not include the workpackage level information for that project (workpackage titles, actual accomplishments, and milestones).

Detail reports are formatted so that only one item is printed per page. If, for example, the workpackage details (description, work statements, flags, and related systems) filled up more than one page, then a second page would be used and the header information would be repeated on that page.

Select the desired Detail Report from the following menu.



Samples of each of these reports are provided on the next three pages.

SAMPLE PROJECT DETAIL REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

PROJECT DETAIL REPORT

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150
Title: FUELS AND EQUIPMENT
Pri: 0 MDEP: RK09 TRADOC MA: STB DA MA: STB

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	3858	3325	3440	3652	3854	3900	3700
Funded:	0	2847	2764	3029	3427	3369	3355	3370
Unfunded:	0	1011	561	411	225	485	545	330
Guidance:	2784	2847	2764	3029	3427	3369	3355	3370
Reprogram:	-2784	0	0	0	0	0	0	0

******* Project Description *******

(U) THE ADVANCED DEVELOPMENT EFFORTS BEING CONDUCTED WITH THIS PROJECT INVOLVE THE TECHNOLOGY DEMONSTRATIONS THAT ARE BEING CONDUCTED ON MODIFIED, IMPROVED, AND/OR NEW FUEL AND LUBRICANT PRODUCT COMMODITIES TO ASSURE THE ADEQUACY OF THEIR PERFORMANCE WHEN INTRODUCED INTO OPERATIONAL/FIELD ENVIRONMENTS; THIS BEING THE FINAL STEP IN THE DEVELOPMENTAL PROCESS OF MATERIAL/PRODUCT COMMODITIES PRIOR TO THEIR TRANSITIONING TO THE DEFENSE LOGISTICS AGENCY. ADDITIONALLY, THIS ADVANCED DEVELOPMENT ALSO PROVIDES FOR COMPLETION OF DEMONSTRATOR MODELS OF FUELS AND LUBRICANT RELATED EQUIPMENT

SAMPLE WORKPACKAGE DETAIL REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

WORKPACKAGE DETAIL REPORT

Cmd: BELVOIR Cat: 6.3 6.3A PE: 63001 Proj: D150 Task: 07 Wkp: 5004
Title: TECH DEMO ON NEW PRODUCT TECHNOLOGIES Pri: 4
Lab: MFL MDEP: RK09 TRADOC MA: STB DA MA: STB FOE: F&L
PMS:

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Required:	0	250	225	310	300	300	315	325
Funded:	0	250	225	310	300	300	315	325
Unfunded:	0	0	0	0	0	0	0	0

******* Workpackage Description *******

(U) MAINTAIN FIELD LIAISON WITH FIELD UNITS EXPERIENCING FUEL-RELATED PROBLEMS. DEVELOP AND REFINE NEW LABORATORY AND FIELD TEST METHODS.

******* FY 1991 Work Statement *******

(U) PROVIDE SUMMARY OF DATA & EVALUATIONS SUPPORTING NEW NATO F-57 MILITARY/CIVILIAN GASOLINE SPECIFICATIONS. COMPLETE CORRELATION OF FUEL PARTICULATE LEVELS WITH FUEL FILTER BLOCKING TENDENCIES. MAINTAIN FUEL SURVEILLANCE SUPPORT TO FIELD.

******* FY 1992 Work Statement *******

(U) COMPLETE DEVELOPMENT OF VEHICLE/EQUIPMENT FUEL FILTER QUALIFICATION METHODOLOGIES. COMPLETE UPDATE OF WORLDWIDE FUEL QUALITY ASSESSMENT DATABASE. MAINTAIN FUEL SURVEILLANCE SUPPORT TO FIELD.

******* FY 1993 Work Statement *******

(U) COMPLETE DEVELOPMENT OF SIMPLIFIED FREE WATER TEST DEVICE FOR GROUND FUELS APPLICATIONS. INITIATE DEVELOPMENT OF COMPREHENSIVE FUEL ADDITIVE DATABASE. MAINTAIN FUEL SURVEILLANCE SUPPORT TO FIELD.

******* FY 1994 Work Statement *******

(U) COMPLETE DEVELOPMENT OF FIELD ADDITIVES DATABASE FOR GROUND FUEL UTILIZATION. COMPLETE DEVELOPMENT OF NEW DISTILLATE/DIESEL FUEL STABILITY TEST AND INCORPORATE INTO EXISTING PROCUREMENT DOCUMENTS. MAINTAIN FUEL SURVEILLANCE TO FIELD.

******* FY 1995 Work Statement *******

(U) COMPLETE DEVELOPMENT OF PURIFIER AND ADDITIVE TREATMENT DEVICE FOR USE WITH DIESEL FUEL STABILIZER ADDITIVES. INITIATE EFFORT TO CORRELATE

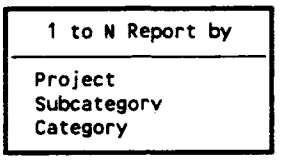
SAMPLE WORKPACKAGE DETAIL REPORT (Continued)

```
BRDEC RDA-PC System          *** UNCLASSIFIED ***                    Page 2

                          WORKPACKAGE DETAIL REPORT

Cmd: BELVOIR       Cat: 6.3 6.3A  PE: 63001  Proj: D150  Task: 07  Wkp: 5004
Title: TECH DEMO ON NEW PRODUCT TECHNOLOGIES                        Pri:


                  *******  FY 1996 Work Statement  *******

    (U) COMPLETE CORRELATION OF LABORATORY FILTRATION CRITERIA WITH FULL-
    SCALE FILTRATION TESTS/RIGS. MAINTAIN FUEL SURVEILLANCE TO FIELD.


                  *******  FY 1997 Work Statement  *******

    (U) COMPLETE DEVELOPMENT OF TEST KIT FOR DETECTING MICROBIOLOGICAL
    CONTAMINATION IN DEPLOYED FUEL. MAINTAIN FUEL SURVEILLANCE TO FIELD.


    Flags              *******  Flag Title  *******
    I001          LOGISTICS R&D/O&S COST REDUCTION
    I007          FUELS AND LUBRICANTS
```

7.6 PRINTING 1-TO-N REPORTS

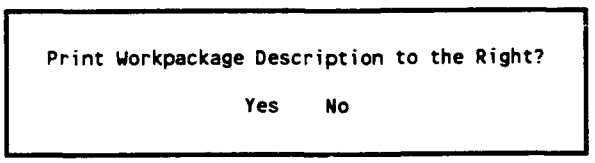
The 1 to N Report is used to support the analysis of the RDA data. It lists the workpackages in order of their priority, with all funded workpackages listed first. It totals the resource requirements of the funded workpackages and compares that total to the appropriate guidance amount. If the guidance is overspent or underspent, then that fact is reported. Then it lists the unfunded workpackages and totals their requirement.

Select the desired 1 to N Report from the following menu. They can be printed by Project, Subcategory, and Category. These options mirror the options for automatically computing the 'What If' funding flags that were discussed in paragraph 5.6. The report does not recompute any of the flags, however. It simply presents the workpackages in priority order, based on the flags and priorities as they currently exist.

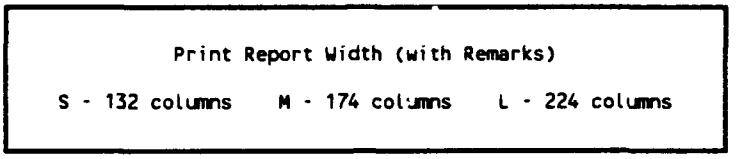


Samples of the Project and Subcategory 1 to N Reports are provided on the next three pages. The Category 1 to N Report is essentially identical to the Subcategory Report (it will be identical for 6.1 and 6.2, and will be quite long for 6.3 since it combines all the information in subcategories 6.3A through 6.7), so an example is not provided.

A variation of the 1 to N Report allows the workpackage description to be printed to the right of the funding information. This is done to provide the decision-maker with some narrative information concerning the workpackage, upon which he can base his decisions concerning the relative priority of workpackages.



If you decide to print the workpackage descriptions, then you will later be offered three choices for how wide to make the description column. The descriptions can be rather long (up to 600 characters), so the wider the column, the fewer lines will be consumed for each workpackage printed.



The narrow width 'S' produces a report which is 132 columns wide. This is the regular width of an 8 1/2" page of condensed print (17 pitch), or a 14" page of normal print (10 pitch). The medium width 'M' is suitable for an 11" page of condensed print (17 pitch), while the largest width 'L' is designed for a 14" page of condensed print (17 pitch). These would be used when printed in the landscape mode with a LaserJet with either letter or legal size sheet paper. These print width options are summarized in the following table:

Report Width	Pitch	Paper Size	Orientation
S - 132 columns	17	Letter	Portrait
	10	Legal	Landscape
	12	Letter	Landscape
M - 174 columns	17	Letter	Landscape
L - 224 columns	17	Legal	Landscape

The samples are provided without the workpackage descriptions in the interest of brevity and format.

SAMPLE PROJECT 1 TO N REPORT

```
BRDEC RDA-PC System          *** UNCLASSIFIED ***                    Page 1

                    1 TO N FUNDING REPORT BY PROJECT

Cmd: BELVOIR        CAT: 6.3 6.3A  PE: 63001   Proj: D150
Title: FUELS AND EQUIPMENT

                FY1990  FY1991  FY1992  FY1993  FY1994  FY1995  FY1996  FY1997
               ======= ======= ======= ======= ======= ======= ======= =======

Funded Workpackages by priority:

   1   PE/Proj/Task/Wkp: 63001/D150/07/5033          Title: JP-8 DEMO PROG
    Required:        0    1047    1074       0       0       0       0       0

   2   PE/Proj/Task/Wkp: 63001/D150/08/5045          Title: LT FOR LVF
    Required:        0     200       0     150       0       0       0       0

   3   PE/Proj/Task/Wkp: 63001/D150/06/5001          Title: PFC QUAL MON
    Required:        0     180     330     375     300       0       0       0

   4   PE/Proj/Task/Wkp: 63001/D150/07/5004          Title: TD ON NPT
    Required:        0     250     225     310     300     300     315     325

   5   PE/Proj/Task/Wkp: 63001/D150/08/5048          Title: AC & LUBES QUAL
    Required:        0     300       0     350       0       0       0       0

   6   PE/Proj/Task/Wkp: 63001/D150/07/5034          Title: N-F HYD FL ASM
    Required:        0     300     400     220       0       0       0       0

   7   PE/Proj/Task/Wkp: 63001/D150/06/5000          Title: PO LUB QUAL MON
    Required:        0     270     210       0       0       0       0       0

   8   PE/Proj/Task/Wkp: 63001/D150/07/5035          Title: IMP LUBES & FLUI
    Required:        0     300     525     375     282     325    1020     650

   9   PE/Proj/Task/Wkp: 63001/D150/07/5037          Title: C/OC TAC ENG OIL
    Required:        0       0       0     500     550     575       0       0

  10   PE/Proj/Task/Wkp: 63001/D150/07/5036          Title: IMP MIL ANTIFR
    Required:        0       0       0     460     370       0       0       0

  11   PE/Proj/Task/Wkp: 63001/D150/06/5002          Title: F/L/F QA KIT
    Required:        0       0       0     120     150     460     400     400

  12   PE/Proj/Task/Wkp: 63001/D150/08/5046          Title: AF & LQ
    Required:        0       0       0     169     680     705     650     650

  13   PE/Proj/Task/Wkp: 63001/D150/07/5041          Title: TD ON NPT
    Required:        0       0       0       0     795    1004     555     690
```

SAMPLE PROJECT 1 TO N REPORT (Continued)

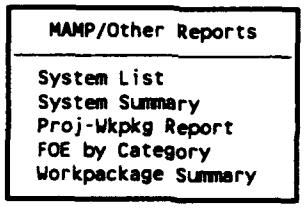
```
BRDEC RDA-PC System          *** UNCLASSIFIED ***                    Page 2

                      1 TO N FUNDING REPORT BY PROJECT

Cmd: BELVOIR        CAT: 6.3 6.3A  PE: 63001   Proj: D150
Title: MULTIPURPOSE AVIATION GREASE

                FY1990  FY1991  FY1992  FY1993  FY1994  FY1995  FY1996  FY1997
               ======= ======= ======= ======= ======= ======= ======= =======

Funded Workpackages by priority:

  14   PE/Proj/Task/Wkp: 63001/D150/07/5040          Title: MULTI AVN GREASE
    Required:        0       0       0       0       0       0     415     655

================================================================================
    Guidance:     2784    2847    2764    3029    3427    3369    3355    3370
    Funded:          0    2847    2764    3029    3427    3369    3355    3370
    Unspent:      2784       0       0       0       0       0       0       0
================================================================================

Unfunded Workpackages by priority:

  15   PE/Proj/Task/Wkp: 63001/D150/08/9036          Title: QAT FOR CO-UNF
    Required:        0     332     332     332       0       0       0       0

  16   PE/Proj/Task/Wkp: 63001/D150/07/9033          Title: GD TUR EO-UNF
    Required:        0       0       0       0     225     195       0       0

  17   PE/Proj/Task/Wkp: 63001/D150/07/9035          Title: ADV F H-S HT-UNF
    Required:        0       0       0       0       0       0     325     330

  18   PE/Proj/Task/Wkp: 63001/D150/07/9032          Title: COM OIL TD-UNF
    Required:        0     679     229      79       0       0       0       0

  19   PE/Proj/Task/Wkp: 63001/D150/07/9034          Title: HTO AADE-UNF
    Required:        0       0       0       0       0     290     220       0

================================================================================
    Unfunded:        0    1011     561     411     225     485     545     330
================================================================================
```

SAMPLE SUBCATEGORY 1 TO N REPORT

```
BRDEC RDA-PC System          *** UNCLASSIFIED ***                    Page 1

                    1 TO N FUNDING REPORT BY SUBCATEGORY

Cmd: BELVOIR        CAT: 6.3 6.3B
Title: SYSTEM ADVANCED DEVELOPMENT

                FY1990  FY1991  FY1992  FY1993  FY1994  FY1995  FY1996  FY1997
               ======= ======= ======= ======= ======= ======= ======= =======

Funded Workpackages by priority:

   0   PE/Proj/Task/Wkp: 63804/DG01/01/4502          Title:
    Required:        0    1160       0       0       0       0       0       0

   0   PE/Proj/Task/Wkp: 63804/DG01/02/4561          Title:
    Required:        0       0    2157    3120    3139       0       0       0

   1   PE/Proj/Task/Wkp: 63804/DG11/30/2653          Title: GEN SET/ASSEM
    Required:        0     483     890    1166    1321     782     608     638

   1   PE/Proj/Task/Wkp: 63804/DG14/30/2141          Title: ATLAS
    Required:        0    1727    3085    1552    2568    2178    3502    3527

   1   PE/Proj/Task/Wkp: 63804/DK39/04/2014          Title: ADV MCS
    Required:        0       0       0       0       0       0       0     318

   2   PE/Proj/Task/Wkp: 63804/DG11/31/2654          Title: COMP GEN SETS
    Required:        0     190     550     727     988     550     450     450

   3   PE/Proj/Task/Wkp: 63804/DG11/37/2500          Title: 3KW LTWT GEN SET
    Required:        0     125     300     771     898    1425    1725    1725

================================================================================
    Guidance:     4060    3685    6982    7336    8914    4935    6285    6658
    Funded:          0    3685    6982    7336    8914    4935    6285    6658
    Unspent:      4060       0       0       0       0       0       0       0
================================================================================

Unfunded Workpackages by priority:

   2   PE/Proj/Task/Wkp: 63804/DG14/25/9003          Title: AACTS
    Required:        0       0       0      50     875      75     450       0

   2   PE/Proj/Task/Wkp: 63804/DK39/04/9160          Title: MCS CS VEHICLE
    Required:        0       0       0       0     375     450     140       0

   4   PE/Proj/Task/Wkp: 63804/DG11/30/9216          Title: ADV EL EN SY-UNF
    Required:        0    1700     850     400       0       0       0       0

   5   PE/Proj/Task/Wkp: 63804/DG11/30/9218          Title: GEN SET/ASSEM-UN
    Required:        0     500       0       0       0       0       0       0

================================================================================
    Unfunded:        0    2200     850     450    1250     525     590       0
================================================================================
```

7.7 MAMP AND OTHER REPORTS

The MAMP Reports duplicate several reports which were available in the Mission Area Materiel Plan (MAMP) database. These are available here because of the duplication of data among the MAMP and the RDA. All MAMP Reports are 132 columns wide and are printed in landscape mode.

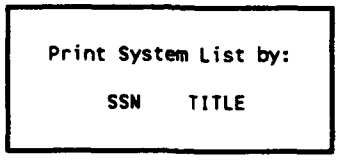


System List:	Presents a listing of the system sorted by SSN or by Title.
System Summary:	Provides a report of the systems with their corresponding RDTE programs.
Proj-Wkp Report:	Provides a report by project of its workpackages and associated systems.
FOE by Category:	Provides a summary of funding by FOE and subcategory.
Workpackage Summary:	Provides a summary report of workpackages.

Samples of each of these reports are provided following the individual discussion of each.

7.7.1 System List

The System List Report provides a listing of all workpackages in the system sorted by either SSN or by system title. Select either SSN or Title from the window shown below.



7.7.2 System Summary

The System Summary is the standard MAMP report for the system. It contains system information, mission area descriptors, narrative description, RDTE workpackages and their budgets. Unfunded workpackages are indicated by parentheses around the dollar values. An option is provided to print all systems or to specify a system SSN.

7.7.3 Project-Workpackage Report

The Project-Workpackage Report lists RDA information by project and workpackage. It contains the command, project number and title, workpackage number, title and budgets by fiscal year, and total funded and unfunded dollars for the project. If workpackages are linked to systems, then the system SSN's and titles are also shown. You may print all project-workpackages or specify ones of interest by supplying the command, program element, and/or project.

7.7.4 FOE by Category

The FOE by Category Report provides total funding by subcategory for each Field of Endeavor.

7.7.5 Workpackage Summary

The Workpackage Summary Report is a detailed report at the workpackage level. It prints the workpackage descriptors, funding, narrative description, systems supported and yearly work statements.

SAMPLE SYSTEM LIST

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 3

SYSTEM LIST ORDERED BY SSN

SSN	ACRONYM	SYSTEM TITLE	DA MA	TRA MA	USER	ACQ
KA2550	DTSS	DIGITAL TOPOGRAPHIC SPT SYS (DTSS)				3
M11400	WQUA-P	WATER QUALITY ANALYSIS UNIT - PURIFICATION	CSS	CSS	QMS	3
M18000	ROWPU P3I	WATER PURIFICATION UNIT REVER	CSS	CSS	TCS	3
M26800		IMPROVED RIBBON BRIDGE				3
M30800	LAMP-H	LIGHTER AMPHIBIAN HEAVY LIFT	CSS	CSS	TCS	3
M39500		RAILWAY CAR, TANK, POL	CSS	CSS	QMS	3
M41102		FRONT SIDE LOADING FORKLIFT	CSS	CSS	QMS	3
M58100		GEN SET, DE, 3KW, 60HZ	CSS	CSS	ORS	3
M60200	ICIDS	ICIDS				3
MA2844		HEAVY ASSAULT BRIDGE				3
MA9500		DIVING EQUIPMENT	EMW	EMW	ENS	3
MB7107		STANDOFF HANDHELD DETECTOR	EMW	EMW	ENS	3
MX0100	HDSB	HEAVY DRY SUPPORT BRIDGE				
MX1002		HISEACOTS	CSS	CSS	TCS	3
MX1003	PACK	PONTOON AIR CUSHION KIT	CSS	CSS	TCS	3
MX1007		AMPHIBIOUS TUG	CSS	CSS	TCS	3
R18800	AFARS	ARTIC FORWARD AREA REFUELING EQUIPMENT	CSS	CSS	QMS	3
R20200	AISI	INTEGRATED SURVEY INSTRUMENT				3
VA3000		ELECTRONIC DECEPTION				3
X00800		CRANE, WHEEL MOUNTED, 25T	EMW	EMW	ENS	3

SAMPLE SYSTEM SUMMARY

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 24

SYSTEM SUMMARY REPORT

SSN: 3T0024 Title: ENVIRONMENTAL CONTROL

Acronym:
DA Mission Area: CSS Acquisition Type:
TRADOC Mission Area: CSS TRADOC Proponent: QMS

Description: (U) THIS PROGRAM WILL INCREASE USE OF COM'L ENVIRONMENTAL CONTROL EQPMT IN ARMY APPLICATIONS. EQPMT TO BE INVESTIGATED INCLUDES SYSTEMS FOUND ON REFRIGERATED TRUCKS, RECREATIONAL VEH, AND BUSES. COMPONENTS INCL SCROLL/ROTARY VARIABLE CAPACITY COMPRESSORS, NEW FAT DESIGNS HIGH EFFICIENCY MOTORS, AND LTWT MATERIALS. EFFORTS WILL LEAD TO DEV OF MOBILE, LTWT RAPIDLY PROCURABLE FAMILY OF ARMY ENVIRONMENTAL CONTROL UNITS. VERIFY TST RQMTS FOR THE STD FAMILY OF ARMY AIR CONDITIONERS. DEV PURCHASE DESCRIPTION TO PROC COM'L ACS TO REPLACE MIL DESIGN.

RDT&E PROGRAMS ($K)

		1991	1992	1993	1994	1995	1996	1997	1998
63804 DK39 38	BELVOIR 2014							318	
	ADVANCED MICROCLIMATIC COOLING SYSTEM								
63804 DK39 38	BELVOIR 9160				(375)	(450)	(140)		
	MICROCLIMATE COOLING SYSTEM FOR COMBAT VEHIC								
65810 D125 0246	BELVOIR 9171	(75)	(75)						
	MODERNIZED ENVIRONMENTAL CONTROL UNITS - UNF								
65810 DE65 3807	BELVOIR 2043	300	300						
	ANALYSIS OF COM'L ENVIRONMENTAL CONTROL UNIT								
65810 DE65 3807	BELVOIR 9206	(50)							
	ANAL OF COMM ENV CTRL UNITS & COMP - UNF								
65810 DE65 3892	BELVOIR 2802					1008	1180	900	
	MODERNIZED ENVIRONMENTAL CONTROL UNITS (ECU)								
65810 DE65 3892	BELVOIR 9178			(300)	(400)				
	MODERNIZED ENVIRONMENTAL CONTROL UNITS (ECU)								

SAMPLE PROJECT-WORKPACKAGE REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 1

PROJECT/WORKPACKAGE REPORT ($K)

Command: BELVOIR Project: 63001 D150 Title: FUELS AND LUBRICANTS

TASK/WKP/SSN	WORKPACKAGE/SYSTEM TITLE	1991	1992	1993	1994	1995	1996	1997	1998
05 5000	LUBE QUALITY ANALYSIS SYSTEM	270	210	120	150	330	200	200	
05 5001	FUEL QUALITY ANALYSIS SYSTEM	180	330	375	300	130	200	200	
05 5007	ACCEPTANCE TEST DEVELOPMENTS FOR POL	300		269	680	705	650	650	
05 5045	LUBRICITY TEST FOR FUELS	200		150					
05 9036	QUALITY ASSURANCE TEST CAPABILITY FOR COMM OIL	(332)	(332)	(332)					
07 5004	ADDITIVES/ALTERNATE FUEL EVALUATION	250	225	310	300	300	315	980	
5T0028	NEW PRODUCT TECHNOLOGY								
07 5033	CONDUCT JP-8 DEMO PROGRAM	1047	724						
5T0030	JP-8 DEMO								
07 5034	FUELS AND LUBES FOR ADVANCED SYSTEMS	600	1000	360		239	955	1110	
5T0031	NON-FLAM HYDRAULIC FLUID FOR ASM								
07 5035	IMPROVED FLUIDS FOR COMBAT VEHICLES		275	845	652	325	390	230	
5T0032	IMPROVED LUBES AND FLUIDS								
07 5037	IMPROVED LUBES FOR COMBAT MATERIALS			600	1345	1340	645		
5T0034	CONUS/OCONUS TACTICAL ENGINE OIL								
07 9032	COMMERCIAL OIL TECH DEMO - UNFUNDED	(679)	(229)	(79)					
07 9033	GROUND TURBINE ENGINE OIL - UNFUNDED				(225)	(195)			
07 9034	HI TEMPERATURE OIL FOR ADV AIPS DEV ENG - UNFUN					(290)	(220)		
5T0038	HI-TEMP OIL FOR ADV AIPS DEV ENG								
TOTAL FUNDS FOR PROJECT:	FUNDED	2847	2764	3029	3427	3369	3355	3370	
	UNFUNDED	(1011)	(561)	(411)	(225)	(485)	(545)	(330)	

SAMPLE FOE BY CATEGORY REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 8

FOE-CATEGORY FUNDING SUMMARY ($K)

FIELD OF ENDEAVOR: F&L FUELS AND LUBRICANTS

CATEGORY	STATUS	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98
6.1	FUNDED	195	143	140	139	144	148	152	0
6.2	FUNDED	1532	1504	1532	1532	1892	1949	1960	0
6.3A	FUNDED	2847	2764	3029	3427	3369	3355	3370	0
TOTAL	FUNDED	4574	4411	4701	5098	5405	5452	5482	0
6.2	UNFUNDED	918	963	1055	933	533	220	185	0
6.3A	UNFUNDED	1011	561	411	225	485	545	330	0
TOTAL	UNFUNDED	1929	1524	1466	1158	1018	765	515	0
TOTAL	FOR FOE	6503	5935	6167	6256	6423	6217	5997	0

SAMPLE WORKPACKAGE REPORT

BRDEC RDA-PC System *** UNCLASSIFIED *** Page 9

WORKPACKAGE SUMMARY REPORT ($K)

Cmd/PE/Proj/Task/Wkp: BELVOIR 63001 D150 07 5035 Title: IMPROVED FLUIDS FOR COMBAT VEHICLES
Lab: MFL MDEP: RK0901 TRADOC MA: STB DA MA: STB FOE: F&L

	FY91	FY92	FY93	FY94	FY95	FY96	FY97	FY98
Funded:	0	275	845	652	325	390	230	0

Systems Supported

SSN	TITLE	MA
5T0032	IMPROVED LUBES AND FLUIDS	CSS

Description

(U) CONDUCT TECH DEMO ON NEW AND IMPROVED FLUIDS FOR COMBAT VEHICLES AND EQUIPMENT. IMPROVED FLUIDS FOR FIELDED VEHICLES ARE DESIGNED TO REDUCE/ELIMINATE CORRISION-RELATED OPERATIONAL/MAINTENANCE PROBLEMS. CONSOLIDATE NUMBER OF FLUID PRODUCTS IN THE SUPPLY SYSTEM. EFFORTS INVOLVE SINGLE HYDRAULIC FLUID, CORRISION-INHIBITED FLUID, AND IMPROVED MILITARY ANTIFREEZE.

1992 Work Statement

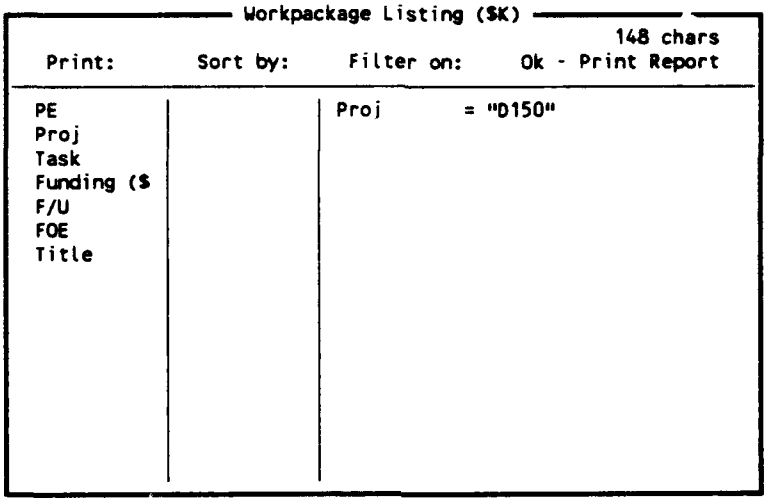
WITH TACOM AND AMCCOM. COMPLTE SHORT-TERM ENDURANCE TESTING ON COMPONENT SYSTEMS.

1993 Work Statement

(U) CONTINUE FIELD TEST ON SINGLE HRDRAULIC FLUID AND COLLECTION/ANALYSIS OF DATA. COMPLETE INTERIM REPORT ON SINGLE HYDRAULIC FLUID DEMONSTRATION. SELECT TEST SITES, VEHICLE TYPES, AND INITIATE FIELD TEST ON IMPROVED MILITARY ANTIFREEZE.

7.8 WORKPACKAGE LISTING

The Workpackage listing provides a report which is based on the particular fields you select.



Enter the appropriate fields to be printed, by selecting a field from the pop up menu and hitting **Enter**. The field will automatically be placed in the Print, Sort by, and Filter on columns to be printed. Then select Ok- Print Report.

7.9 WORKPACKAGE TEXT FILE

The Workpackage Text File is simply a listing of the workpackage level funding details, workpackage description, and fiscal year work statements. The file which is created is named 'WKPKG.TXT'. A sample of this file is supplied on the next page. It is created to be used with external file viewers/listers for those analysts not possessing a copy of RDA_PC.

SAMPLE WORKPACKAGE TEXT FILE

WORKPACKAGE TEXT FILE

Cmd: BELVOIR Cat: 6.1 6.1 PE: 61102 Proj: AH51 Task: 01 Wkp: 1000
Title: EXPLOSIVE MINE NEUTRALIZATION Pri: 1
Lab: CSD MDEP: RK01 TRA/DA MA: STB/STB FOE: CM
PMS: 2234

	FY1990	FY1991	FY1992	FY1993	FY1994	FY1995	FY1996	FY1997
Funded:	0	180	180	155	155	155	155	155

Workpackage Description
(U) THIS BASIC RESEARCH IS DESIGNED TO GAIN KNOWLEDGE OF THE DETONATION MECHANISMS IN DISPERSED EXPLOSIVES. USING SCHLIEREN AND HOLOGRAPHIC TECHNIQUES, THE DETONATION OF SINGLE PARTICLES WILL BE STUDIED. DETONATION PROPAGATION TO OTHER PARTICLES AND TO THE

FY 1991 Work Statement
(U) PERFORM LITERATURE SEARCH, ORDER EQUIPMENT AND INITIATE A STUDY USING SCHLIEREN AND HOLOGRAPHIC TECHNIQUES OF THE DETONATION OF SINGLE EXPLOSIVE PARTICLES SUSPENDED IN AIR BY ELECTROSTATIC FORCES.

FY 1992 Work Statement
(U) CONTINUE THE STUDY ON SINGLE PARTICLE DETONATION AND INITIATE WORK ON PARIED PARTICLE DETONATION AND ON THE MECHANISMS BY WHICH THE DETONATION PROPAGATES THROUGH THE WHOLD CLOUD. CONCLUDE THE WORK WITH SINGLE PARTICLES.

FY 1993 Work Statement
(U) CONTINUE AND CONCLUDE THE STUDY OF PAIRED EXPLOSIVE PARTICLE DETONATION AND THE PROPAGATION OF THE DETONATION THROUGH A CLOUD OF EXPLOSIVE PARTICLES. EVALUATE THE POTENTIAL OF PULSVED X-RAY TOMOGRAPHY FOR MAPPING THE DISPERSION OF DETONATING PARTICLES.

FY 1994 Work Statement
(U) CONTINUE TO EVALUATE THE POTENTIAL OF PULSED X-RAY TOMOGRAPHY FOR MAPPING THE DISPERSION OF DETONATING PARTICLES. INITIATE WORK ON PARTICLE CONCENTRATION MEASUREMENT TECHNIQUES.

FY 1995 Work Statement
(U) CONTINUE TO PERFORM WORK ON PARTICLE CONCENTRATION MEASUREMENT TECHNIQUES. INITIATE WORK ON IMPROVE CHEMICAL EQUILIBRIUM COMPUTER CODES.

FY 1997 Work Statement
(U) CONTINUE AND COMPLETE THE WORK IN NEW
EXPLOSIVE FORMULATIONS.

7.10 VIEW TEXT FILES

Text files are created when you print a report to a file. These are simply files that contain nothing but ASCII characters, suitable for printing. All these files end with the extension '.txt' by default.

When you pick 'View Text' from the utilities menu, a window such as the one below, will appear listing the text files present in your current directory. This window shows the file name, its size (in bytes), and the date and time when it was created. The file 'readme.txt' should always be present, since it was provided with the RDA-PC System. The other files are created by you, and will depend on what reports you have run. There is no need to keep these text files around after they have been used, so feel free to delete them to recover the disk space they consume.

View Text File

COMMAND.TXT	2334	07/11/90	13:31
PE.TXT	9710	07/11/90	13:29
PROJECT.TXT	20042	07/11/90	13:28
README.TXT	7504	07/06/90	10:58
SUBCAT.TXT	6348	07/11/90	13:29
PMS.TXT	2290	07/11/90	13:27
WKPKG.TXT	11827	07/11/90	13:26

Highlight the file you want and press **Enter** to select it.

You have the option of viewing, printing or deleting the file that has been selected.

When you view a text file, the screen clears and the contents of the file are displayed. You use the Up and Down arrow keys to scroll the file one line at a time. The **PgUp** and **PgDn** keys and also be used to more rapidly move through the file. For those reports wider than 80 columns, the Left and Right arrow keys can be used to look at the data to the left or right of the of the current window. The viewer will beep at you if you try to advance before the beginning or beyond the end of the file.

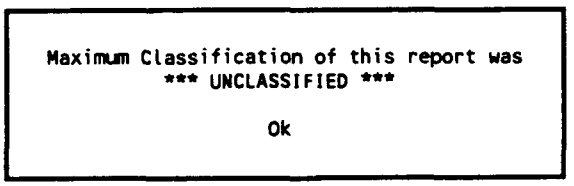
Across the bottom line of the screen, the program reports the file name being viewed, and the percent of the way through the file that you are. In short reports, the percent may appear deceptive since blank lines consume almost no space in the text file.

When you are done viewing the file, press **Esc** to close that file and to return to the list of files so that you can view another one.

7.11 REPORT CLASSIFICATION SUMMARY

As each page in the report is printed, it is individually marked with the highest classification of the data contained on that page. At the conclusion of the report, if any classified pages have been printed, a final page is printed which summarizes the classification for the report as a whole. It will include the highest classification encountered in the report, the report title, and the downgrading instructions (if applicable). You should place this page at the beginning of the report and use it as a cover sheet until it can be replaced with a more detailed report title page.

In addition, at the end of each report, the highest classification of any page in the report is displayed in a window on the screen. You should take notice of this classification, and verify that it matches your expectations for the report classification. Simply press **Enter** to clear this window and to complete this report.

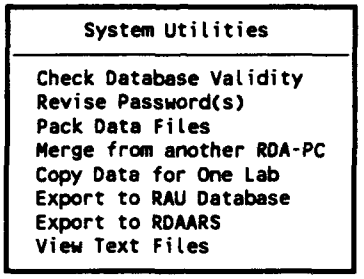


Remember to safeguard your classified reports, either printed to paper or to a disk file, just as you safeguard the classified data itself.

RDA-PC SYSTEM UTILITIES

8.1 GENERAL

The RDA-PC System includes a number of utility functions which are both helpful and essential for the smooth operation of the system. These are accessed from the 'System Utilities' selection of the Main Menu. The following window appears to let you select the utility function that you would like to use. Each of these utilities is described separately in this section.



Check: Performs a consistency and validity check on the database.

Password: Allows the password (and other parameters) to be modified.

Pack: Packs the RDA data files to remove all deleted records.

Merge: Merges RDA data from some other RDA-PC System into the current database. This is used by the System Administrator when integrating the data from a number of users.

Copy: Copies out the Workpackage related data for one Lab into a new set of files.

RAU: Exports RDA Workpackage Data into the RAU database format.

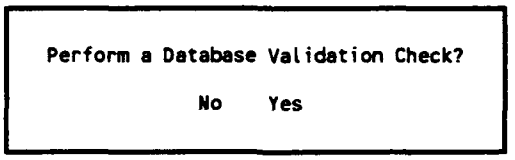
RDAARS: Transfers the RDA data into 23 files formatted specifically for import into the RDAARS or export from the RDAARS.

View Text: Provides access to a file viewer that lets you look at the reports you have printed to a file. (See paragraph 7.8)

8.2 CHECK DATABASE VALIDITY

This utility exists because it is possible, however unlikely, that the database could become contaminated. Bad data can enter the system intentionally or accidentally. Most sources for error are eliminated when data is entered through the RDA-PC System. However, the data files could also be edited directly through DBase/Foxbase, and that form of data entry is uncontrolled. This utility allows you to automatically perform a number of quality control checks on the RDA-PC database and to print a detailed error report.

The utility only requires that you confirm your desire to perform the checks, and to identify where you want the validation report sent.



A number of validation and consistency checks are performed for each of the data files. If an error is detected, the error along with the record identifying data is reported. These checks are:

(1) Linkage to a controlling file is not established. This occurs when the required controlling data is not present in the controlling file. For example, a command is encountered which is not entered in the CMD file.

(2) Empty or missing control data in a record. One or more of the control fields for this record is empty.

(3) Deleted records are present in the file. The file should eventually be packed to remove the deleted records (before merging it).

(4) A duplicate record exists. The RDA-PC data files are intended to contain only unique data records.

(5) A duplicate workpackage exists within the command. This is an additional rule for the Workpackage file only. Within a command, the workpackage numbers must be unique.

(6) The classification marking is missing. In the Project, Task, and Workpackage files, there is a record classification field which should not be empty (it should be 'U', 'C', or 'S'). In addition, each narrative should also be marked with '(U)', '(C)', or '(S)' as the first three characters.

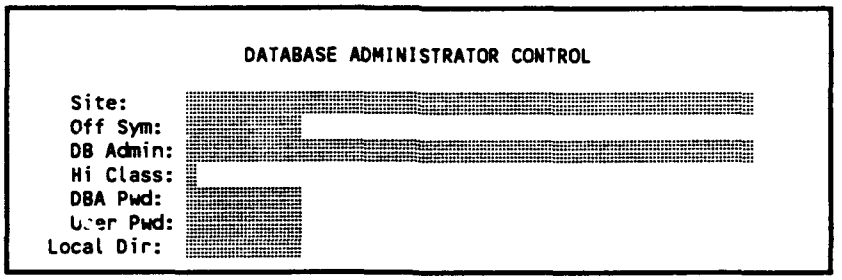
(7) The classification exceeds the maximum classification designated for this site. The maximum is established by the System Administrator.

(8) The budget year is missing or undefined.

(9) The subcategory field in this record does not match the subcategory field in the Program Element file. The subcategory field is in a number of files, and in each one it must match the subcategory defined for the corresponding Program Element in the PE file.

8.3 REVISE PASSWORDS

The password review utility is provided so that you can change the passwords, and certain other controlling data. The Database Administrator is allowed to modify the items shown below. Only the User Password prompt will appear for a User site.



Site: The location of the Database Administrator.

Off Sym: The office symbol of the Database Administrator.

Hi Class: The maximum classification of any data entered into the RDA-PC database (either 'U', 'C' or 'S').

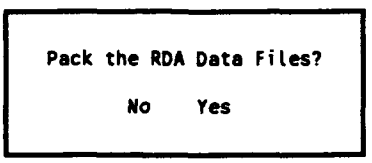
DBA Pwd: The System Administrator's password.

User Pwd: The User's password.

Local Dir: Specifies the local directory and path.

8.4 PACK DATA FILES

This utility packs the data files to remove any deleted records. Until the files are packed, deleted records can be undeleted. You should perform this housekeeping chore occasionally, and always before attempting to merge this data. The program only requires that you confirm your desire to pack the files.

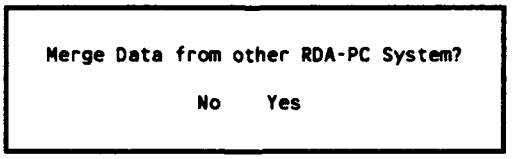


8.5 MERGE DATA FROM OTHER RDA-PC SYSTEM

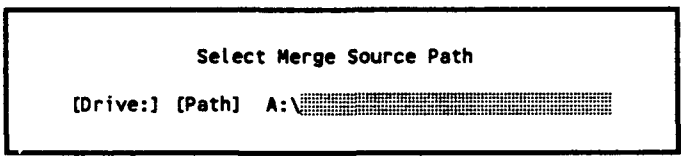
A merge is performed by the System Administrator who needs to integrate RDA data entered at a User site into the master database. This is done by the RDA-PC in a controlled manner so that data errors are not introduced into the system.

> Note: The User should use the 'Check' utility to verify the database to be merged before he provides it to you to merge into your system. This can only be done at the User's site. You should also 'Check' your system and correct any deficiencies (including the removal of deleted records). After the merge, you should 'Check' the master database again to verify that no new problems were introduced into your data.
>
> Note: **BACKUP** your existing RDA-PC database before you attempt to merge. This is a risky operation and you want to be able to recover!!

First, you must confirm that you want to merge data from another RDA-PC System.



The data to be merged should already be stored in a separate directory on your hard disk. (You can work directly off of a floppy disk, but this is a slow way to do it.) It must be a separate directory because the data files will have the same names. **BE CAREFUL** when you copy the data from the transfer diskette onto your hard disk that you don't overwrite your own RDA-PC data files. Enter that directory name at the following window. This is called the 'merge source path' and the data files are called the 'merge database'.



Now you get to select the type of merge that you want to perform. Two types of merges are offered.

The simplest type of merge is the 'Append' merge. In the Append merge, the data files are scanned only for new records. New records are those which are in the merge database but are not in the master database. When new records are encountered in the merge data, they are appended to the master database. Records which already exist in the master database are assumed to be more current than those in the merge database.

The 'Update' merge assumes that the merge database is more current than the master database. When records which already exist in the master database are encountered in the merge database, then the data contents are transferred to the master. Of course, new records are also appended to the master in the update merge. You should consider two major points if you are attempting to update existing data through a merge:

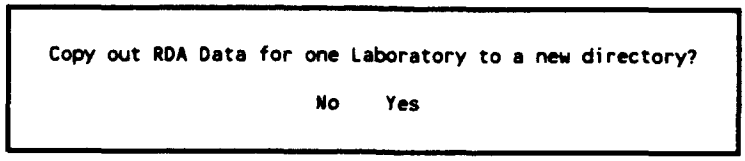
(1) There is no way of knowing whether a record has been deleted at the User site since the last merge was performed. Since this record is not contained in the current merge database, it will not be affected by the merge process. It will be retained in the master database just like data from other User sites is retained.

(2) The only way to reliably perform an update is to first delete the data currently in the master database from that User site that will be merged. This ensures that only current data from the User will be contained in the master database. Unfortunately, it is sometimes hard to decide exactly what needs to be deleted first. Probably the easiest way is to segregate each User by command, project or task. Then, you can delete the commands, projects and/or tasks pertinent to that User before you merge his data.

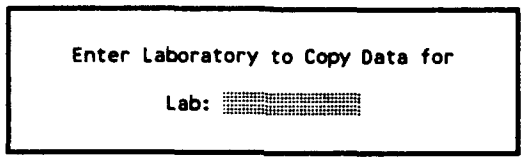
The first file the merge process checks is the Budget Year file (BGTYR). If the budget year in the merge database is different from the master database, then the merge stops immediately. After that, each file is processed in turn. If a merge data file is missing, the program warns you and then continues with the next file until all have been processed.

8.6 COPY DATA FOR ONE LAB

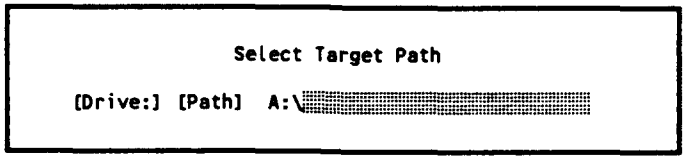
It is often useful to segregate the responsibility for entering the RDA data by Laboratory. A lab would be responsible for one or more Tasks and their subordinate data elements. This utility allows the database administrator to create data files which contain only the subset information appropriate to a single lab.



Data can be copied for one lab at a time. The program does not check to see if the lab is entered correctly.



The data files most be sent to a disk/directory different from the current directory. If you enter the current directory, the program will crash.



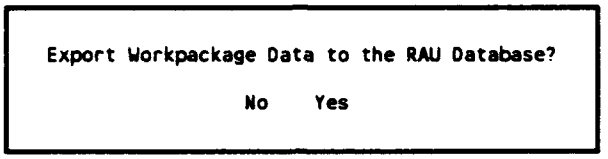
The following subset files are created in the target subdirectory:

wkpkg.dbf	mt.dbf
wkstmt.dbf	actual.dbf

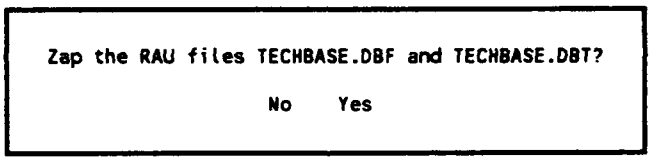
The remaining data files required by RDA-PC are transfered in their entirety for use by the laboratory.

8.7 EXPORT TO RAU DATABASE

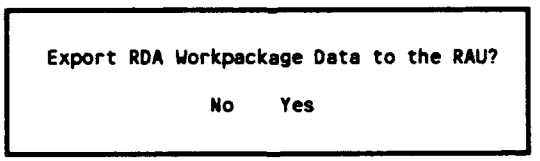
The RDA-PC System contains much of the same workpackage data as the RAU database developed by LABCOM. This utility allows you to automatically transfer existing RDA data into the RAU.



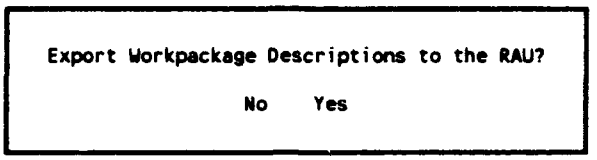
In order to export the data, you must first have available, in your current directory, copies of the RAU files 'techbase.dbf' and 'techbase.dbt'. The RDA data for Tech Base workpackages will be placed into these files. You are given the option to remove any existing data from these files first (which you normally might do).



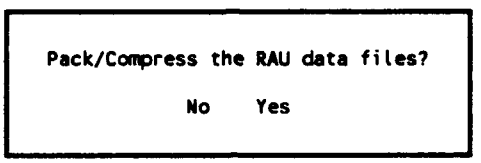
This clears out the database files first if there is already data contained in them. This is not required. You might want to keep the data that is in there if you are only updating the narratives.



This copies the data contained in wkpkg.dbf into techbase.dbf. This is the workpackage data and all the flags which connect this workpackage to STOs, ATDs, TBIS Codes, Thrusts, etc.



This copies only the workpackage narratives into the file techbase.dbt. It is separated out because it is likely that the narratives may be updated while there is no new information in the basic workpackage data.

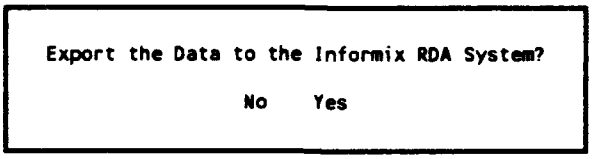


Sometimes, when you save data repeatedly into the techbase files, they experience "memo bloat" in which the .dbt file keeps growing and growing. Simply packing the file does not remove the excess space. This techique does remove the excess space taken up by the unused memo fields and results in the smallest RAU file possible being sent to AMC.

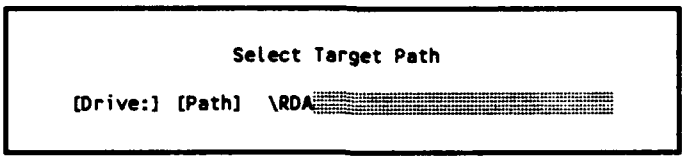
8.8 EXPORT DATA TO THE RDAARS

One of the objectives of the RDA-PC is to use it as a data entry front end for the RDAARS. The RDAARS operates in Unix-based minicomputers and is written in Informix. It works with its own defined files and defined data structures. For the most part, the structures in the RDA-PC mirror those of the RDAARS, but there are some differences.

The export process translates the RDA-PC data into the exact formats required for accurate and automatic uploading of the data into the RDAARS. Exporting data to the RDAARS is a straightforward procedure. First you confirm that you want to perform the export.



Then you type in the directory (on your PC) into which you want to place the 23 data files that will be created. This is called the 'target path'. By default it is the current directory, but you can name any valid directory (including other drives).



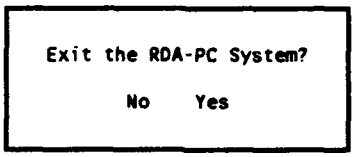
The following files will be created in that directory. These are in the 'unload ascii' format that Informix is accustomed to using. You then transfer those files to the RDAARS host computer and use 'dbstatus' to 'load ascii' from these files into the RDAARS.

actual.u
cat.u
catfund.u
cmd.u
cmdfund.u
descript.u
flag.u
flaglist.u
mamp.u
mamplist.u
mt.u
pdipguid.u
pe.u
pefund.u
proj.u
projfund.u
rational.u
task.u
taskfund.u
wkdesc.u
wkpfund.u
wkpkg.u
wkstmt.u

How you transfer those files to the RDAARS host computer will depend upon your particular configuration and software. This process was tested using the Kermit server on the Unix host computer and Procomm Plus data communications software on the PC. The only problems encountered were the need to eliminate existing data in the RDAARS before performing the 'load ascii', and the need to recognize that the file 'wkpfund.u' is targeted for the RDAARS database file 'wkpkgfund' and the file 'rational.u' is targeted for the RDAARS file 'rationale'.

EXITING THE RDA-PC SYSTEM

Exiting the RDA-PC System is really straightforward. From the Main Menu, simply select the last option 'Quit' (or press **Esc**). The following window will appear for you to confirm your desire to quit.

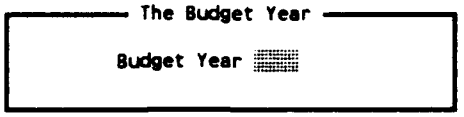


If you answer 'No', you will go back to the Main Menu. If you answer 'Yes' the program will proceed to close all the data files.

Once you make this selection, the program ends and returns you to DOS. Thank you for using the RDA-PC. Don't forget to **BACKUP** your data!

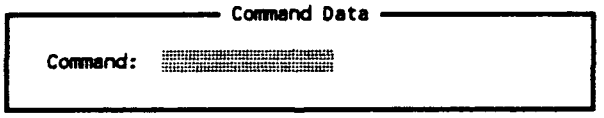
APPENDIX A
DATA FILE WINDOWS

A.1 The Budget Year File Window (BGTYR)



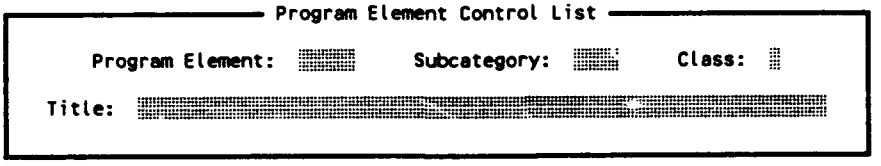
This is the budget year for the current database. It affects the years available to enter funding data into in the project and · orkpackage data file windows, the years for which rationale and work statements may be entered, and the years for which funding data are printed in reports. The default budget year is 1993 until it is modified.

A.2 Command Control List File Window (CMD)



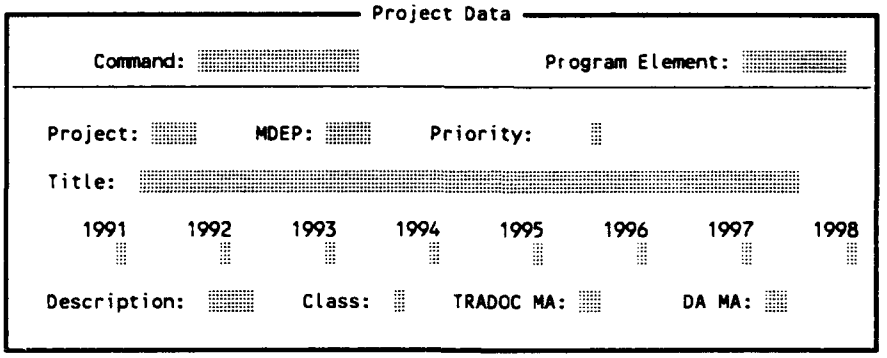
The list of Commands controls almost all data records in the RDA-PC System. The command name is unique. The command reference is separately classified within the narrative.

A.3 Program Element Control List File Window (PE)



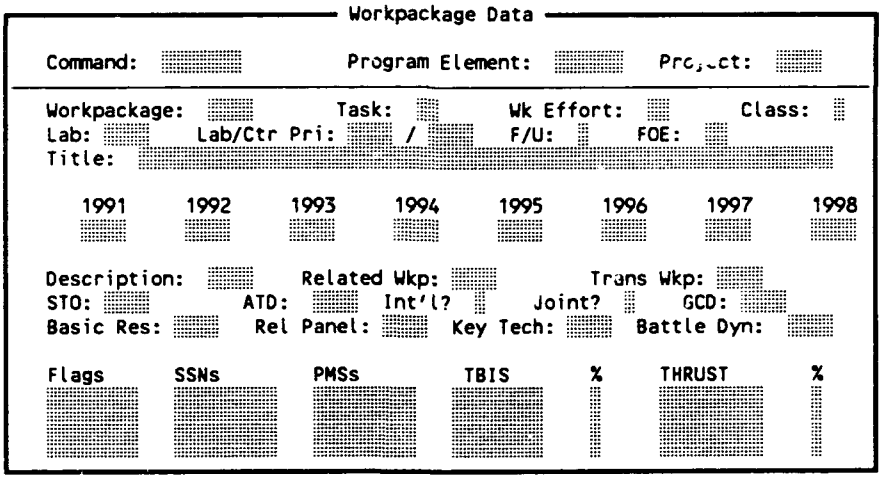
The list of Program Elements (PEs) controls almost all data records in the RDA-PC System. The category for a PE is automatically determined from the subcategory. The classification is for the PE title.

A.4 Project Data File Window (PROJECT)



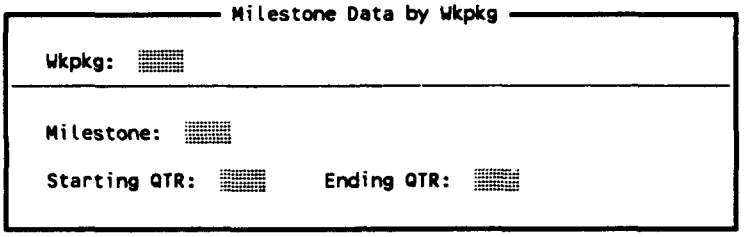
The Project Data File requires that the command and PE already exist in their respective files. The project number must be unique within a (command + PE + project). The displayed years are controlled by the budget year. The classification is for the project title and funding data. The project description is separately classified within the narrative. The MDEP is obtained from the LRRDAP guidance data for this project. The priority is the DA priority for the MDEP. The TRADOC and DA mission areas are not controlled.

A.5 Workpackage Data File Window (WKPKG)



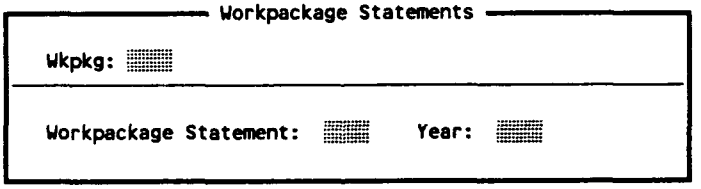
The Workpackage Data File contains a record for each workpackage. The command, PE, project, and task must already be defined in their respective files. The workpackage must be unique within each pe (command + PE + project + workpackage) and also within each command (command + workpackage). [This requirement is solely to match with the RDAARS unique indexes]. The classification is for the workpackage title and funding. The workpackage description is separately classified within the narrative. The F/U field indicates whether this workpackage is funded ('F') or unfunded ('U'). The displayed funding years are controlled by the budget year. Other data fields are then required by the RAU database.

A.6 Milestone Data by Workpackage File Window (MT)



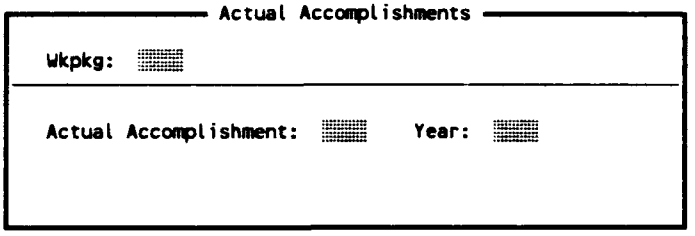
The Milestones Data File contains a record for each milestone associated with each task. It requires that the command, PE, project, and task already be defined in their respective files. The milestone must already be defined in the Milestone Control List. The milestone must be unique within the workpackage. To the right of the milestone is the title of the milestone, which is obtained from the Milestone Control List. The starting and ending quarters are entered, for example, as '4Q91'.

A.7 Workpackage Statements File Window (WKSTMT)



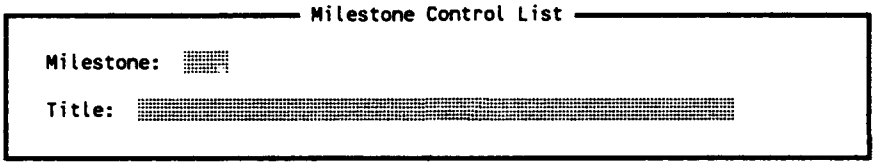
The Workpackage Statements File contains the narrative workpackage plans, by workpackage, by funding year. The command, PE, project, task, and workpackage must already be defined in their respective files. The year must be in the range: (budget year to budget year+7). The year must be unique within the workpackage. The work statement is separately classified within the narrative.

A.8 Actual Accomplishments File Window (ACTUAL)



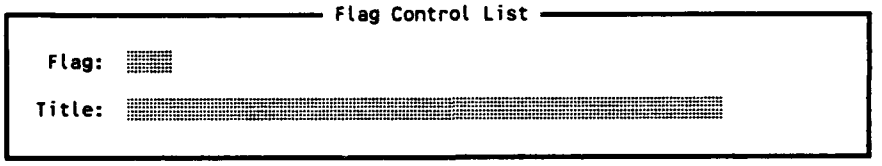
The Actual Accomplishments File contains the narrative accomplishments for a workpackage in a given year. Obviously, the year should be less than or equal to the current budget year. The actual accomplishment is separately classified within the narrative.

A.9 Milestone Control List File Window (MILELIST)



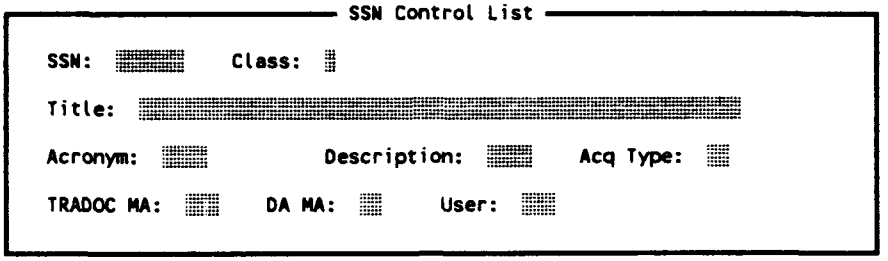
The list of Milestones controls the milestones which can be associated with workpackages. The milestone must be unique.

A.10 Flag Control List File Window (FLAGLIST)



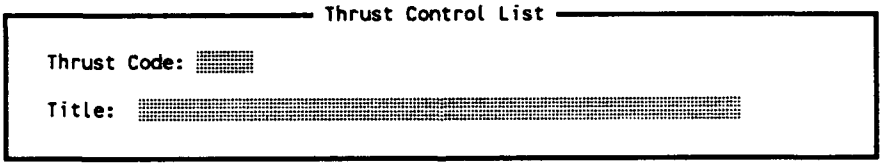
The list of Flags controls the flags which can be associated with workpackages. The flag must be unique.

A.11 System (SSN) Control List File Window (SSNLIST)



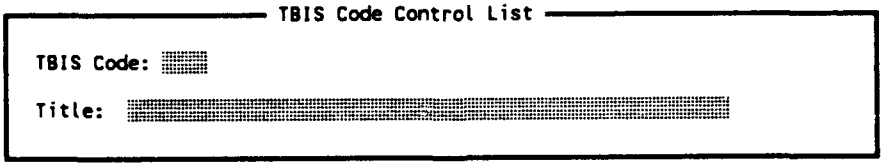
The list of Systems controls the systems which can be associated with workpackages. The SSN must be unique. The classification is for the system title. The system description is separately classified within the narrative. The TRADOC and DA mission areas are not controlled.

A.12 Thrust File Window (THSTLIST)



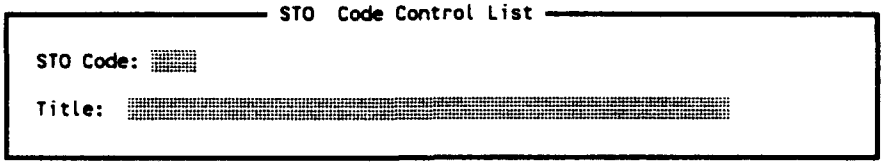
The list of Thrust Codes controls the thrusts which can be associated with workpackages. The Thrust Codes must be unique.

A.13 TBIS Code Control List File Window (TBISLIST)



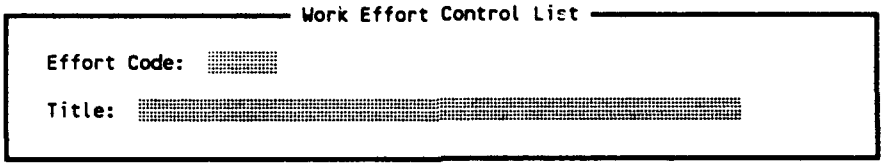
The list of TBIS Codes controls the TBIS's which can be associated with workpackages. The TBIS codes must be unique.

A.14 STO Code Control List File Window (STOLIST)



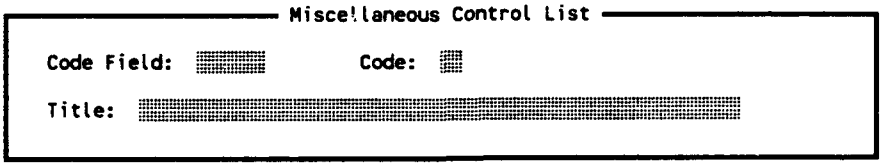
The list of STO codes controls the STO's which can be associated with workpackages. The STO codes must be unique.

A.15 Work Effort Control List File Window (EFFTLIST)



The list of Work Effort Codes controls the work efforts which can be associated with workpackages. The Work Effort codes must be unique.

A.16 Miscellaneous Codes File Window (CODEFILE)



The list of Miscellaneous Codes controls entry into various fields in the Project and Workpackage files. These are:

TRAD_MA, DA_MA
FOE, LAB, REL, KEYTECH, AND
BATDYN

APPENDIX B
DATABASE DEFINITION

The following text documents the RDA-PC data file structures for Version 3.0. These are listed in standard DBase 'list structure' format. None of the numeric fields have defined decimal components. The following notes apply to these structure listings.

- Narrative fields are included as a group of three 200 character fields, which together make up a 600 character narrative. Each member of the group has the same basic field name, with the addition of a 1, 2, or 3 at the end of the field name.

```
Structure for database: C:\RDA\ACTUAL.DBF
Field  Field Name  Type       Width
    1  WKPKG       Character      7
    2  YEAR        Numeric        4
    3  DESC1       Character    200
    4  DESC2       Character    200
    5  DESC3       Character    200
```

```
Structure for database: C:\RDA\ARCHIVE.DBF
Field  Field Name  Type       Width
    1  SETCODE     Numeric        4
    2  CMD         Character     12
    3  SUBCAT      Character      4
    4  PE          Character      5
    5  PROJ        Character      4
    6  TASK        Character      9
    7  WKPKG       Character      7
    8  TITLE       Character     60
    9  CLASS       Character      1
   10  F_U         Character      1
   11  F_UT        Character      1
   12  FUND_YR0    Numeric        8
   13  FUND_YR1    Numeric        8
   14  FUND_YR2    Numeric        8
   15  FUND_YR3    Numeric        8
   16  FUND_YR4    Numeric        8
   17  FUND_YR5    Numeric        8
   18  FUND_YR6    Numeric        8
   19  FUND_YR7    Numeric        8
```

```
Structure for database: C:\RDA\ARCHLIST.DBF
Field  Field Name  Type       Width
    1  BGTYR       Numeric        4
    2  SET         Character      6
    3  SETCODE     Numeric        4
    4  SETDATE     Date           8


Structure for database: C:\RDA\BGTYR.DBF
Field  Field Name  Type       Width
    1  BGTYR       Numeric        4


Structure for database: C:\RDA\CMD.DBF
Field  Field Name  Type       Width
    1  CMD         Character     12


Structure for database: C:\RDA\CODEFILE.DBF
Field  Field Name  Type       Width
    1  CODE_FIELD  Character     10
    2  CODE        Character     10
    3  CODE_TITLE  Character     60


Structure for database: C:\RDA\EFFTLIST.DBF
Field  Field Name  Type       Width
    1  EFFORT      Character      4
    2  TITLE       Character     60


Structure for database: C:\RDA\FLAGLIST.DBF
Field  Field Name  Type       Width
    1  FLAG1       Character      5
    2  MTITLE      Character     60


Structure for database: C:\RDA\MILELIST.DBF
Field  Field Name  Type       Width
    1  MSTONE      Character      8
    2  MTITLE      Character     60


Structure for database: C:\RDA\MT.DBF
Field  Field Name  Type       Width
    1  WKPKG       Character      7
    2  MSTONE      Character      8
    3  SQTR        Character      4
    4  EQTR        Character      4


Structure for database: C:\RDA\PE.DBF
Field  Field Name  Type       Width
    1  PE          Character      5
    2  SUBCAT      Character      4
    3  TITLE       Character     60
    4  CLASS       Character      1
```

Structure for database: C:\RDA\PROJECT.DBF

Field	Field Name	Type	Width
1	CMD	Character	12
2	SUBCAT	Character	4
3	PE	Character	5
4	PROJ	Character	4
5	MDEP	Character	4
6	PRI	Numeric	4
7	PRI_CTR	Numeric	4
8	PRI_LAB	Numeric	4
9	TITLE	Character	60
10	TRAD_MA	Character	3
11	DA_MA	Character	3
12	CLASS	Character	1
13	FUND_YR0	Numeric	8
14	FUND_YR1	Numeric	8
15	FUND_YR2	Numeric	8
16	FUND_YR3	Numeric	8
17	FUND_YR4	Numeric	8
18	FUND_YR5	Numeric	8
19	FUND_YR6	Numeric	8
20	FUND_YR7	Numeric	8
21	DESC1	Character	200
22	DESC2	Character	200
23	DESC3	Character	200

Structure for database: C:\RDA\RDA_HELP.DBF

Field	Field Name	Type	Width
1	HELP_FOR	Character	20
2	HELP_TEXT	Character	200
3	HELP_LINE	Numeric	2

Structure for database: C:\RDA\SSNLIST.DBF

Field	Field Name	Type	Width
1	SSN1	Character	6
2	TITLE	Character	60
3	ACRONYM	Character	10
4	TRAD_MA	Character	3
5	DA_MA	Character	3
6	USER	Character	3
7	ACQ_TYPE	Character	4
8	CLASS	Character	1
9	DESC1	Character	200
10	DESC2	Character	200
11	DESC3	Character	200

Structure for database: C:\RDA\STOLIST.DBF

Field	Field Name	Type	Width
1	STO1	Character	8
2	MTITLE	Character	60

```
Structure for database: C:\RDA\TBISLIST.DBF
Field  Field Name  Type       Width
    1  TBIS1       Character      4
    2  MTITLE      Character     60

Structure for database: C:\RDA\TECHBASE.DBF
Field  Field Name  Type       Width
    1  COMMAND     Character     10
    2  ORG         Character      8
    3  MDEP        Character      4
    4  PE          Character      5
    5  PROJ        Character      4
    6  WKPKG       Character      9
    7  WKPKG_CLAS  Character      1
    8  TITLE       Character     60
    9  DESC_CLAS   Character      1
   10  FY92        Numeric        7
   11  FY93        Numeric        7
   12  FY94        Numeric        7
   13  FY95        Numeric        7
   14  FY96        Numeric        7
   15  FY97        Numeric        7
   16  FY98        Numeric        7
   17  FY99        Numeric        7
   18  FUND_CLAS   Character      1
   19  F_U         Character      1
   20  PRIORITY    Numeric        3
   21  INTEGR      Character      4
   22  TBIS1       Character      4
   23  TBIS2       Character      4
   24  TBIS3       Character      4
   25  TBP1        Numeric        3
   26  TBP2        Numeric        3
   27  TBP3        Numeric        3
   28  BASIC_RES   Character      4
   29  STO_1       Character      8
   30  DA_MIS_ARA  Character      4
   31  CRITECH     Character      3
   32  INTER       Character      1
   33  ATD         Character      3
   34  GCD         Character      2
   35  INTPROG     Character      1
   36  DESCRIPTN   Memo          10
   37  THRUST1     Character      6
   38  THRUST2     Character      6
   39  THRUST3     Character      6
   40  THRPCT1     Numeric        3
   41  THRPCT2     Numeric        3
   42  THRPCT3     Numeric        3
   43  REL         Character      2
   44  KEYTECH     Character      2
   45  BATDYN      Character      2
   46  SSN_PE      Character      9
```

```
Structure for database: C:\RDA\THSTLIST.DBF
Field  Field Name  Type       Width
    1  THRUST1     Character      6
    2  MTITLE      Character     60

Structure for database: C:\RDA\WKPKG.DBF
Field  Field Name  Type       Width
    1  CMD         Character     12
    2  SUBCAT      Character      4
    3  PE          Character      5
    4  PROJ        Character      4
    5  TASK        Character      4
    6  EFFORT      Character      4
    7  WKPKG       Character      7
    8  PRI         Numeric        4
    9  PRI_CTR     Numeric        4
   10  PRI_LAB     Numeric        4
   11  TITLE       Character     60
   12  CLASS       Character      1
   13  F_U         Character      1
   14  F_UT        Character      1
   15  FUND_YR0    Numeric        8
   16  FUND_YR1    Numeric        8
   17  FUND_YR2    Numeric        8
   18  FUND_YR3    Numeric        8
   19  FUND_YR4    Numeric        8
   20  FUND_YR5    Numeric        8
   21  FUND_YR6    Numeric        8
   22  FUND_YR7    Numeric        8
   23  LAB         Character      4
   24  DESC1       Character    200
   25  DESC2       Character    200
   26  DESC3       Character    200
   27  FOE         Character      4
   28  RELWKP      Character      7
   29  TRNWKP      Character      7
   30  FLAG1       Character      5
   31  FLAG2       Character      5
   32  FLAG3       Character      5
   33  SSN1        Character      6
   34  SSN2        Character      6
   35  SSN3        Character      6
   36  PMS1        Character      4
   37  PMS2        Character      4
   38  PMS3        Character      4
   39  ATD         Character      3
   40  TBIS1       Character      4
   41  TBIS2       Character      4
   42  TBIS3       Character      4
   43  TBISPCT1    Numeric        3
   44  TBISPCT2    Numeric        3
   45  TBISPCT3    Numeric        3
   46  STO1        Character      8
   47  GCD         Character      2
   48  BASIC_RES   Character      3
   49  THRUST1     Character      6
```

```
    50  THRUST2      Character       6
    51  THRUST3      Character       6
    52  THRPCT1      Numeric         3
    53  THRPCT2      Numeric         3
    54  THRPCT3      Numeric         3
    55  INTL         Character       1
    56  JOINT        Character       1
    57  KEYTECH      Character       2
    58  BATDYN       Character       2
    59  REL_PANEL    Character       2
    60  WIF_YR0      Numeric         8
    61  WIF_YR1      Numeric         8
    62  WIF_YR2      Numeric         8
    63  WIF_YR3      Numeric         8
    64  WIF_YR4      Numeric         8
    65  WIF_YR5      Numeric         8
    66  WIF_YR6      Numeric         8
    67  WIF_YR7      Numeric         8

Structure for database: C:\RDA\WKSTMT.DBF
Field  Field Name  Type       Width
    1  WKPKG       Character      7
    2  YEAR        Numeric        4
    3  DESC1       Character    200
    4  DESC2       Character    200
    5  DESC3       Character    200
```