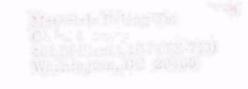
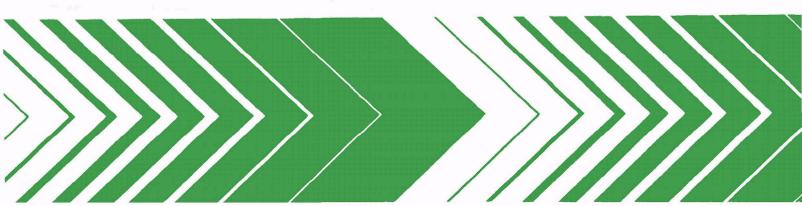


## Alternative Treatment Technology Information Center (ATTIC)

User's Manual Version 1.0





# ALTERNATIVE TREATMENT TECHNOLOGY INFORMATION CENTER (ATTIC)

# USER'S MANUAL VERSION 1.0

by

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#### **DISCLAIMER**

This material has been funded wholly or in part by the United States Environmental Protection Agency (EPA) under Contract Nos. 68-D1-0022 to Technical Resources, Inc., and 68-W2-0004 to Environmental Management Support, Inc. It has been subject to the Agency's peer and administrative reviews and it has been approved for publication as an EPA document. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

ii Disclaimer

#### **FOREWORD**

Today's rapidly developing and changing technologies and industrial products and practices frequently carry with them the increased generation of materials that, if improperly dealt with, can threaten both public health and the environment. The U.S. Environmental Protection Agency (EPA) is charged by Congress with protecting the Nation's land, air, and water resources. Under a mandate of national environmental laws, the Agency strives to formulate and implement actions leading to a compatible balance between human activities and the ability of natural systems to support and nurture life. These laws direct the EPA to perform research to define our environmental problems, measure the impacts, and search for effective solutions.

EPA's Risk Reduction Engineering Laboratory (RREL) is responsible for planning, implementing, and managing research, development, and demonstration programs to provide an authoritative, defensible, engineering basis in support of the policies, programs, and regulations of the EPA with respect to drinking water, wastewater, pesticides, toxic substances, solid and hazardous wastes, and Superfund-related activities. This publication is one of the products of that research and provides a vital communication link between the researcher and the user community.

The Alternative Treatment Technology Information Center (ATTIC) is an integral component of RREL's efforts to promote the use of more permanent, innovative solutions to cleaning up our Nation's hazardous waste sites. ATTIC is a comprehensive information network on alternative hazardous waste treatment technologies. This User's Manual is intended to introduce new users to the ATTIC system and guide them in using the various features of ATTIC. The Manual is also intended to assist users in taking advantage of the more advanced search capabilities of the system.

This version of the User's Manual provides detailed information on how to access and use the ATTIC Bulletin Board, how to upload and download files, and how to access and use the ATTIC Database. The Manual will be updated periodically to reflect system upgrades and provide information on how to access and use other databases available through ATTIC. This Manual is intended for environmental decision makers, remedial contractors, and other interested individuals involved in hazardous waste site cleanup.

E. Timothy Oppelt, Director Risk Reduction Engineering Laboratory

Foreword

#### **ABSTRACT**

The Alternative Treatment Technology Information Center (ATTIC) is a comprehensive information network providing up-to-date information on alternative treatment technologies for hazardous waste. ATTIC is comprised of a collection of databases on hazardous waste treatment, an electronic bulletin board, a hotline, and a repository/clearinghouse. ATTIC was created as a resource for EPA staff, remedial contractors, and others responsible for selecting more permanent remedies for hazardous waste sites. ATTIC provides environmental decisionmakers with performance and cost data on innovative, viable treatment technologies that may be more effective than traditional approaches.

This User's Manual is intended to provide detailed instruction to users on how to access ATTIC and use its broad range of information retrieval capabilities. The Manual is designed to be used to find information about specific features of the ATTIC system—from the basics of dialing into the Bulletin Board to designing a search strategy to downloading selected reports. Each section within the User's Manual clearly describes the steps and commands required to accomplish a particular function, such as conducting a search on the ATTIC Database. The Manual is intended to provide more detailed, step-by-step information than that in the online help files already available on ATTIC. One of the primary purposes of this Manual is to enable ATTIC users to take advantage of the full capability of the system.

This version of the User's Manual is organized into five chapters—each focused on a different component or aspect of the ATTIC system. Chapter 1 introduces users to ATTIC, describes the components of the system, and explains how to get help. Chapter 2 provides an overview of the equipment and system configuration needed to access ATTIC, and instructions on how to register online as a new user. Chapter 3 introduces the ATTIC Bulletin Board and the commands available to access its various features. Chapter 4 explains how to upload and download files on ATTIC. Chapter 5 introduces the ATTIC Database and explains how to efficiently search for information. Additional chapters will be added in subsequent versions of the Manual including—Chapter 6 on the Risk Reduction Engineering Laboratory Treatability Database, Chapter 7 on the Technical Assistance Directory Database, and Chapter 8 on the Calendar of Events Database. The Manual will be updated periodically to reflect revisions in system features and the addition of new databases.

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## 1. Introduction

## What is ATTIC?

#### ATTIC provides you access to:

- Databases
- An Electronic Bulletin Board
- A Hotline
- A Repository

The Alternative Treatment Technology Information Center (ATTIC) is the most comprehensive information network providing up-to-date information on innovative technologies that can be used to treat hazardous wastes. ATTIC provides the information you need to find <u>innovative</u> solutions for <u>permanent</u> remedies at hazardous waste sites. ATTIC offers you access to databases, an electronic bulletin board, a hotline, and a

repository of information sources. It saves you time and resources by streamlining your search for information. With ATTIC you can quickly search through hundreds of source documents to find the information you need on biological, chemical, physical, solidification/stabilization, and thermal treatment technologies. ATTIC helps you keep up to date with the latest information on conferences and training seminars concerning hazardous waste treatment. ATTIC also helps you identify experts who can assist you in selecting appropriate technologies, and vendors who can help you implement the remediation. ATTIC is available when you need it--24 hours a day, seven days a week--and there is no charge to use ATTIC except the cost of a telephone call. Presently, eight users can access the ATTIC system simultaneously.

## What is in ATTIC?

ATTIC provides you access to <u>four online databases</u> and <u>two additional databases</u> that are available through the ATTIC system operator. The online databases are accessed through an electronic bulletin board which includes features such as hazardous waste treatment news items, bulletins, and special interest groups—such as the one on bioremediation. The bulletin board also features a message center which enables you to communicate with your peers and learn from their experiences in applying innovative technologies. Through the ATTIC hotline, you can request searches of the databases that are not available online. ATTIC also maintains a repository of the source documents abstracted in the ATTIC database. Copies of the documents can be obtained from the National Technical Information Service, EPA's Center for Environmental Research Information, or ATTIC by calling the system operator.

The four online databases currently available on ATTIC are:

• The ATTIC Database—contains about 2,000 abstracts and citations of articles/technical reports on biological, chemical, physical, solidification/stabilization, and thermal treatment technologies.

The database, which is both free text and keyword searchable, provides information on the treatment process, contaminants, cost and performance, and quality of the data.

• EPA's Risk Reduction
Engineering Laboratory
Treatability Databasecontains information on
the removal and destruction of chemicals in
water, soil, debris,
sludge, and sediment. It
includes data on 33
alternative technologies.

The ATTIC Database includes information from a broad range of sources, such as:

- Superfund Innovative Technology Evaluation (SITE) Program
- Records of Decision (RODs)
- RCRA Delisting Actions
- Removal Actions
- Treatability Studies
- NATO/International Studies
- U.S. Air Force
- U.S. Army Toxic and Hazardous Materials Agency (USATHAMA)
- State Agencies
- Industry Field Studies/Remedial Projects
- Conferences and Symposia
- Technical Journals and Bulletins
- The Technical Assistance Directory—identifies hundreds of government, academic, and consulting experts who may be contacted for assistance.
- The Calendar of Events—provides a comprehensive list of national and international conferences, training seminars, and workshops focusing on hazardous waste treatment.

The two additional databases include:

- The Robert S. Kerr Environmental Research Laboratory Soil Transport and Fate Database-provides data on the movement and fate of contaminants in soil matrices.
- EPA's Hazardous Waste Collection Database—is a collection of reports, commercial books, directives, legislation, and reports from various government agencies concerned with hazardous waste.

## Who Uses ATTIC?

ATTIC is used by those involved in the cleanup of Superfund, Resource Conservation and Recovery Act corrective action, underground storage tank, and other hazardous waste sites. ATTIC users include EPA, other federal agency and state personnel, consulting engineers, technology vendors, remediation contractors, researchers, community and environmental groups, private companies, PRPs (potentially responsible parties), and international organizations.

## **How Do You Get Into ATTIC?**

To access ATTIC you will need a PC or terminal, telecommunications software (e.g., CrossTalk<sup>TM</sup> or PROCOMM<sup>TM</sup>), a modem (1200, 2400, or 9600 baud), and a phone line that will handle modem

communications. The phone number for accessing the ATTIC online computer system is (301) 670-3808 for 1200 and 2400 baud modems and (301) 670-3813 for 9600 baud modems. (There is currently no FTS or toll-free number.) The telecommunications parameters are:

Parity: No
 Data Bits: 8
 Stop Bits: 1

• Terminal Emulation: VT-100/ANSI

Duplex: Full

When you first dial into ATTIC, you will be asked to register and create a password. You must remember this password and use it every time you access ATTIC. Once you have registered you can access the Bulletin Board or any of the databases resident on ATTIC. You enter the databases by using the [OPEN] a Database command from the Bulletin Board menu (see Chapters 5-8 for a more detailed explanation of accessing databases).

## Do You Need Help?

ATTIC is demonstrated at numerous conferences and workshops across the country. If you would like to see the system demonstrated or would like training or technical assistance, please contact the ATTIC System Operator at (301) 670-6294.

This User's Manual is an overview of the major components and capabilities of ATTIC. It is intended to familiarize users with how to access ATTIC, what ATTIC has to offer, and the most efficient means of conducting searches on the system. In addition to this manual, detailed assistance is available through online help on ATTIC. While in the ATTIC Bulletin Board System, you can get help for any ATTIC prompt. To get help for

any command type H followed by the abbreviation of the command for which you want help and then <ENTER> following the "Main Board Command?" prompt. For example, to get help on reading messages, type HR<ENTER>. To get help at the subcommand level (such as the "End of Message Command?", "Message Read Command?", or "Bulletin List Command?"), simply type H<ENTER>. ATTIC will display help for the prompt from which you typed H. In addition, when displaying information (such as messages, file lists, and bulletins) that is more than one screen long, ATTIC will display the following prompt at the end of each screen: (# min left), (H)elp, (N)o More, <ENTER> for More? At this prompt, type H<ENTER> for an explanation of the display options or <ENTER> to continue displaying text. To stop the display, type N<ENTER>.

When searching the ATTIC Database, you can also get online help. By typing H<ENTER> for one of the ATTIC Database menus, you can access the ATTIC Database online help system. The (H)elp option is available in all of the menu areas, including help for searching the ATTIC Database, help for downloading files, and help for the ATTIC information menu.

The ATTIC online help files will soon be made available in a file that you can download from the Bulletin Board (see Chapter 4--Uploading and Downloading Files for instructions on how to download). It will contain the text of all help screens for ATTIC.

You can also get help by simply calling the ATTIC system operator on the ATTIC hotline. You can request assistance in accessing the system, designing a search strategy, or help for "walking" you through a search. The ATTIC system operator is available to answer any of your questions concerning ATTIC or help you resolve any problems you may have in accessing the system.

## How is This Manual Organized?

The User's Manual is organized into eight chapters each focused on a different component or aspect of the ATTIC system. Chapter 2 provides an overview of the equipment and system configuration you need to access ATTIC, and instructions on how to register online as a new user. Chapter 3 introduces you to the Bulletin Board and the commands you can use to access its features. Chapter 4 provides you a detailed explanation of how to upload and download files. Chapter 5 introduces you to the ATTIC Database and explains how to efficiently search for the information you are looking for. Chapter 6 provides an overview of how to use the Risk Reduction Engineering Laboratory Treatability Database (not included in Version 1.0 of the manual). Chapter 7 focuses on how to use the Technical Assistance Directory Database (not included in Version 1.0 of the manual), and Chapter 8 focuses on the Calendar of Events Database (not included in Version 1.0 of the manual).

## **How Do You Use This Manual?**

The User's Manual is designed to be used to find information about specific features of the ATTIC system. If you want to know everything from the basics of ATTIC to the most advanced features of the system, you will need this manual. Although the length of the manual may be intimidating, its organization and indexing make it easy to find the information you need. You do not have to read the entire manual to be able to access and use ATTIC. Each section within the manual clearly describes the steps and commands you must enter to accomplish that particular function, such as reading your messages. The manual also offers time saving tips for more advanced ATTIC users. The manual is intended to provide more detailed information than the online help files already available on ATTIC, and to assist you in using the full capability of the system. For example, the manual provides information on how to design the most efficient searches depending on the type of information you are looking for.

If you have any comments or questions concerning the manual, we would like to hear them. You can leave a message on the ATTIC Bulletin Board, call the ATTIC system operator at (301) 670-6294, or drop us a note at 4 Research Place, Suite 210, Rockville, Maryland 20850.

1-4 Introduction

## 2. Getting Started

## What Equipment Do You Need?

You do not need sophisticated communications software. Virtually any communications software will be adequate to connect to ATTIC. To use ATTIC, you will need the following equipment:

- A Personal Computer or Terminal--Almost any computer or terminal will do as long as it can be connected to a telephone line via a modem.<sup>1</sup>
- A Modem--A modem is used to connect your computer or terminal to a telephone line. Almost any 1200, 2400, or 9600 baud modem will work fine. A Hayes compatible modem is recommended, and is required by many communications programs running on IBM PC or AT compatible computers. You may also require cables and telephone jacks to connect the modem to your computer or terminal and to the telephone system.
- A Communications Software Program--Software is necessary only if you are using a microcomputer to connect to ATTIC (terminals have built-in communications programs). CrossTalk<sup>TM</sup>, the EPA standard microcomputer communications program, is a good choice for use with ATTIC. Smartcom<sup>TM</sup> and PROCOMM<sup>TM</sup> are other common communications programs that also work well with ATTIC.

## **How Do You Configure Your System?**

Before connecting to ATTIC, you must set certain parameters in your terminal or communications program so that your system "speaks the same language" as that of ATTIC. Most terminals or

Getting Started 2-1

If you are calling from any system where you must go through a shared modem pool instead of directly to a modem, the process of accessing ATTIC is slightly more complicated. The procedure in CrossTalk<sup>TM</sup> is as follows: (1) Set your communications parameters to 1 stop bit, 7 data bits, even parity, and 1200, 2400, or 9600 baud; (2) at the CrossTalk "command?" prompt, type GO LOcal and hit <ENTER> until you get the port selector menu; (3) select the number or command to dial out; (4) hit the <CTRL> key and the letter E simultaneously, then hit <ENTER>; and (5) type D 8k301670-3808, then <ENTER> again. After a few moments, you should receive the welcome screen and "Do you want graphics?" prompt from ATTIC. Before you answer yes or no, you must reset your communications parameters to 8 data bits, no parity. Then follow normal logon procedures. See your local IRM (information resources management) staff for instructions on how to automate the call up sequence on your own computer.

communications programs have a "setup" or "communications parameters" screen that allows you to make these settings.

#### **Generic Parameters**

Set your system to operate at a speed of 1200, 2400, or 9600 baud (depending on your modem's capabilities), 8 data bits, 1 stop bit, and no parity. If you later dial up ATTIC (as described below) and receive only "garbage" characters, then it is very likely that one or more of these parameters has not been correctly set. If this occurs, reset the parameters and hit the <ENTER> key to see if the "garbage" characters are corrected. In the event that you still have only "garbage" on the screen, hang up, reset the parameters, and try dialing again.

ATTIC will accept calls with communications parameters set at 7, E, 1 (7 data bits, even parity, 1 stop bit). However, after you are connected to ATTIC and BEFORE you type anything including <ENTER>, you should change the settings to 8, N, 1. Otherwise, many features of ATTIC--such as full-screen editors, databases, and file transfers--will be denied to you.

Select "full duplex" or "no local echo" if your system allows these settings. If you dial ATTIC and every letter you type is displayed twice on your screen, you should check these parameters before continuing.

Finally, select VT100 (or "ANSI-BBS") terminal emulation if you are using an IBM-compatible PC and your system permits it. This will usually allow you to select "graphics mode" on ATTIC. After you dial up, if some of the screens look odd (for example, there are extraneous characters in the text, or boxes come out as letters rather than lines), then it is likely that your terminal emulation is not compatible with the graphics mode of ATTIC. In

this case, you should simply set the color/graphics mode to off on ATTIC after you dial up. Type M<ENTER> from the "Main Board Command?" prompt to turn the color/graphics mode on or off. Unless you have software for the Macintosh capable of emulating ANSI, the graphics mode cannot be used on a Macintosh. Therefore, you should generally answer N at the "Do you want graphics?" prompt if you are using a Macintosh.

There are usually many other settings that can be assigned on a terminal or in a communications program. The other settings will depend on your computer, modem, or your own personal preferences. The following sections contain procedures for setting up Smartcom<sup>TM</sup> software on a Macintosh computer and CrossTalk<sup>TM</sup> software on an IBM-compatible PC.

#### Setting up Smartcom<sup>TM</sup> on a Macintosh

Under the Connection menu, select "Phone number." Enter 301-670-3808 (for 1200 or 2400 baud) or 301-670-3813 (for 9600 baud). (Include the "9" or "8" prefix if your phone system uses it.) Click on the OK button to save.

Under the Settings menu, select "Speed and Format." Make sure the "Transmission speed" is set at 1200, 2400, or 9600. "Bits per character" at 8, "Stop bits" at 1, and "Parity" at none. Click OK to save these settings.

Under the Settings menu, select "Autotype protocol." Click on the circle next to "Normal" on the top line. Under "End of Line," make sure the boxes next to "Insert word wrapping at column . . . " and

"Insert line feeds" are unchecked. If they are checked, click on the box to uncheck them. Click OK to save. Also under the Settings menu, click on the circle next to VT102. Click OK to save. When you close the file, save the changes and name the file ATTIC.

## Setting up CrossTalk<sup>TM</sup> on a PC

Exhibit 1 below lists all of the required and optional parameters for CrossTalk<sup>TM</sup> to get the most out of the ATTIC display. The left column of Exhibit 1 contains the parameter prompts displayed on the CrossTalk<sup>TM</sup> setup screen. To select a parameter, enter the first two letters of the prompt; for example, NU for number. The middle column of the table contains the parameters you need to select.

Exhibit 1. CrossTalk<sup>™</sup> Configuration Parameters

FROMPT	DATA TO ENTER	COMMENTS
NAme	ATTIC	Optional
NUmber	8-301-670-3808	For 9600 baud modems use 301-670-3813. (Don't forget the "9" or "8" prefix if your phone system uses one.)
\$Peed	2400	Choose 1200, 2400, or 9600 baud depending on your modem. (Don't forget the phone number is different for 9600 baud.)
MOde	Originate	Sets full duplex and enables outgoing calls
DAta	8	See footnote 1
PArity	N	See footnote 1
STop	1	See footnote 1
<b>EM</b> ulation	VT100	Optional, but required for PC graphics and colors
INfilter	Off	Optional, but required for PC graphics

## **How Do You Establish a Connection?**

Once you have configured your communications software, you are ready to dial ATTIC. Make sure your modem is on and properly connected to your computer or terminal and to the telephone system. Direct your communications software to dial the ATTIC number, and wait a few seconds for your computer to connect.

Your computer will usually notify you of a connection with the message "CONNECT" or "CONNECT 2400" just before the ATTIC welcoming screen appears. If you cannot connect after two or three tries, check your communications parameters and make sure the modem cables are properly connected. Connection failures are usually the result of some problem at the user end of the system. Occasionally—usually not during regular business hours—ATTIC is briefly offline for routine maintenance or upgrade. At these times, the phone does not answer when you dial in. If you call and the phone does not answer, immediately try again. If you hear a busy signal, then all of the phone lines to ATTIC are already in use by other callers. Try calling back in a few minutes. However, if you are using a shared modem pool, you may be getting a "busy" signal because there are no lines available for you to dial out. You can

Getting Started 2-3

quickly find out if all the ATTIC access lines are busy by calling the ATTIC system operator at 301-670-6294. ATTIC can currently accommodate up to eight simultaneous users. If you persistently have trouble connecting (because of busy signals or no answer), call the ATTIC system operator and report the problem. The system operator will probably be able to quickly identify the problem and help you access ATTIC.

Once you make a connection, you will see the following:

Welcome to the ATTIC System PCBoard (R) - Version 14.5/E9 - Node X

You will then be asked "If you have an IBM-compatible, do you want graphics? <ENTER> = no?". The default setting is non-graphics mode. If you respond to this prompt by typing Y < ENTER>, you will toggle ANSI graphics ATTIC will automatically detect if you have ANSI capability and if your system supports the CURSOR POSITION REPORT sequence. However, you are still required to select graphics or non-graphics mode.

on. To use ANSI graphics mode you must be using a communications program which supports standard ANSI (Esc) code graphics. If you select graphics and get a lot of symbols such as "[01;49m" on your screen mixed in with the normal text display, your software does not support ANSI graphics and you should toggle graphics off by typing M<ENTER> after the prompt following the ATTIC Main Menu.

#### For experienced users ...

To make the sign-on process faster, you can enter your first name, last name, and password on the same line, separated by spaces--

JOHN SMITH PASSWORD

If you are a registered user, you will be asked to enter your first name, then your last name (see Exhibit 2). ATTIC will ask you if the registration information on the screen is correct. If it is correct, you type Y<ENTER> or just <ENTER>. You will then be prompted to enter your password (only dots will appear on the screen). Then you will be asked if you want to "Scan the Message Base Since 'Last Read' <ENTER> = yes?". You can simply hit <ENTER> if you want to scan the messages, or type N<ENTER> if you do not want to scan the

messages. After you have scanned the messages or if you have responded by typing N < ENTER >, the ATTIC Main Menu will appear next on the screen.

## How Do You Register?

You do not need to be pre-registered to dial into ATTIC. When you call ATTIC for the first time, you will be asked to enter your name. ATTIC will indicate that your name is not found in the USER's file, and you will be asked if you want to register as a user. To register, you must type C to continue logon as a new user, and then respond by typing Y < ENTER > after the "Would you like to register with us, (your name)? < ENTER > = yes?". You will then be asked to enter a password of your own choosing (don't trust your memory; keep a record of your password in a secure place because you will need it every time you logon ATTIC). Do not share your password. As a first time caller, you will also be asked to complete an online registration form. The registration form includes your organizational affiliation, and telephone number (see Exhibit 3). Your registration information will immediately be processed, and ATTIC will inform you that it has been saved, and provide you with full access to the Main Board.

2-4 Getting Started

#### WELCOME TO

United States Environmental Protection Agency
Office of Environmental Engineering and Technology
Demonstration

ATTIC

ALTERNATIVE TREATMENT TECHNOLOGY INFORMATION CENTER

What is your first name? John < ENTER > What is your last name? Smith < ENTER >

The ATTIC welcome screen will request your first and last names. New users and registered users must enter their names now. In this example, the user is John Smith. After the "What is your first name?" prompt, the user typed John <ENTER>.

After the "What is your last name?" prompt, the user typed Smith <ENTER>.

#### Exhibit 3. New User Registration

JOHN SMITH not found in USER's file.
(R) to re-enter your name or (C) to continue logon as a new user? C<ENTER>

Would you like to register with us, John? <ENTER> = yes? Y<ENTER>

Password (One word please!)? ......

Re-enter password to verify? ......

Your Agency/Organization? U.S. Agency < ENTER >

Commercial Office Phone No.? 123-456-7890 < ENTER >

FTS Phone No.? 999-456-7890 < ENTER >

City & State Calling From? Rockville, Maryland < ENTER >

If a new user, you will be asked if you would like to register as a user. To register you must type C. then <ENTER> after the continue prompt. Then type Y < ENTER > <ENTER> in response to the next prompt. You will then be asked to enter a password--type your password, then <ENTER>. Only dots will be visible on the screen. You will be asked to reenter your password to verify it. You will then type your affiliation <ENTER>, telephone number <ENTER>, and city and state < ENTER >, following the appropriate prompts.

## 3. Using the Bulletin Board

## How Do You Use the ATTIC Bulletin Board?

On the ATTIC Bulletin Board you can retrieve and leave messages, as well as text search messages. You can also review news and bulletins on alternative treatment technologies, and actually "chat" online with other ATTIC users. This chapter provides an overview of the capabilities and the commands for using the ATTIC Bulletin Board.

By entering the appropriate command from the Main Menu, you can read or create messages, scan the news or any bulletins of interest, or enter any of the databases available in ATTIC. These commands, as well as the subcommands, are explained more fully in Appendix A of this manual.

#### Main Board Menu

ATTIC has a Main Menu that includes most of the major commands and capabilities (see Exhibit 4). This menu is displayed before what is known as the "Main Board Command?" prompt. Directly in front of the prompt is "(119 min. left)" which indicates the number of minutes remaining for your session on ATTIC. To ensure access to all users, each session is limited to 120 minutes. However, after your 120 minutes is over, you can call back and initiate another session if there is an open line to ATTIC. To enter a command at the "Main Board Command?" prompt, simply enter the command abbreviation (in brackets) listed in the Main Menu; for example, type R for [R]ead a Message.

Once you have logged onto ATTIC, you will get the ATTIC system news, which provides the latest information on the system and any changes and additions that have been made. Following the ATTIC system news you will see the prompt "Scan Message Base Since 'Last Read' < ENTER > = yes?" If you wish to review the messages, hit < ENTER > or type Y < ENTER >; if not, type N < ENTER >.

There are a few commands on the Main Board Menu that you may want to familiarize yourself with before you access the Bulletin Board or search the Databases. You may also wish to set several parameters before you begin using ATTIC. These commands are listed below.

[P]age Length

You can use the [P]age Length command from the ATTIC Main Menu to set the number of display lines that you want to appear on the screen before the software displays a "(H)elp, (N)o More, <ENTER> for More?" prompt on your screen. If you select 0 as your page length, there will never be a pause during any screen display. The default value for the [P]age Length command is 23 lines per page.

[X|pert Mode On/Off

The [X]pert Mode command allows you to toggle between expert and novice modes. When Expert mode is on, the Main Menu is never displayed, and most command line prompts are considerably abbreviated. (Note: The Main Menu can be displayed one time

MESSAGES/INFO	FILES/DIRECTORIES	SETTINGS/MISC.
[B]ulletin Listings	[F]ile Directories	[M]ode (Graphics)
[C]omment to SYSOP	[D]ownload a File	[P]age Length
[E]nter a Message	[DB] Download a Batch	[T]ransfer Protocol
[TS] Text Search Msgs	[FL] Flag for Download	[X]pert On/Off
[K]ill a Message	[L]ocate a File	[W]rite User Info
[Q]uick Message Scan	[U]pload a File	[V]iew Settings
[R]ead a Message	[UB] Upload a Batch	[CH]at between Nodes
[RE]ply to Messages	[N]ew Files	[NEWS] Screen Display
[RM] Re-read Mem'd Msgs	[Z]ippy DirectoryScan	[S]cript Questionnaires
[Y]our Personal Mail	DATABASES/"DOORS"	
	[OPEN] a Database	
GENERAL	For HELP, TYPE "H"	SPECIAL INTEREST
[G]oodbye (Hang Up)	plus boxed letter in	GROUPS
	command (e.g., H F)	b[A]ck to the Main Men
٠.		[J]oin a SIG

while in Expert mode by typing MENU < ENTER > .) In novice mode all menus are displayed. The default for the [X]pert Mode Command is off. To turn on the Expert Mode you type X < ENTER > after the "Main Board Command?" prompt.

[W]rite User Info

The [W]rite User Info Command allows you to change your password and your other user information stored in the ATTIC User File, including:

**Password** 

Your business address

Your business phone number(s)

Comments in the Comment Field

Choice of having the screen cleared before reading a message The message base areas you want to scan with the "Y A" Command.

[T]ransfer Protocol

The [T]ransfer Protocol Command allows you to set a default transfer protocol for uploading and downloading files. A default of (N)one can be entered, in which case you will be asked to specify the protocol type each time you begin either an upload or download from the system. If you specify a value here, it will be used as the default

each time you request a file transfer. However, this default can be overridden at the time of a file transfer request by including the protocol desired as a separate entry on the same line as the filename.

[V]iew Settings

The [V]iew Settings Command allows you to view your current user settings, including:

The number of system caller you are
Your default [P]age Length setting
Your system registration expiration date (or NONE)
Your security level
Your last date on
The last message number you read
The current high message number
Number of active messages
Download bytes available for that day
Default [T]ransfer Protocol selected

[G]oodbye (to hang up)

The [G]oodbye Command, entered after the "Main Board Command?" prompt, disconnects you from ATTIC and initiates the logoff procedure by prompting you with the question "Proceed With Logoff?" Typing Y<ENTER> in response will log you off the system. This command should always be used to logoff ATTIC to ensure proper updating of all message pointers. You can also logoff by typing BYE<ENTER>, which shortens the logoff procedure to a one-step process. (Note: Not all command prompts in ATTIC will let you logoff. If you are at a command prompt that does not recognize the G or BYE commands, then hit <ENTER> until a primary command prompt like the "Main Board Command?" prompt displays on the screen.)

You can utilize other components of ATTIC by entering the appropriate command from the ATTIC Main Menu. The commands applicable to the Bulletin Board are described below. The remainder of the Manual focuses on using the ATTIC Bulletin Board and the Databases resident on the ATTIC system. In addition, a detailed explanation of how to upload and download files is provided.

## How Do You Read and Leave Messages?

The Message Center is your means of communicating with other users, as well as the ATTIC system operator. You may enter five types of messages on ATTIC:

•	Public Messages	Messages from one user to another that can be read by all users
•	Private Messages	Messages from one user to another that can be read only by the sender and the receiver
•	General Messages	Messages that can be read by all users
•	Group Messages	Messages that can be read only by users who know the password assigned by the sender
•	SysOp Messages	Messages to the ATTIC system operator

The Message Center is one mechanism of the ATTIC system that allows you to "network" with an array of users from hazardous waste programs at the international, federal, state, and local government levels; academia; industry and trade associations; public/private institutions; and public interest groups. For example, you may announce an upcoming event not listed on the Calendar of Events or update other portions of ATTIC; discuss R&D projects; establish cooperative efforts; and benefit from the experience of others in technical, program, and policy matters. The ATTIC staff monitors and responds to messages daily. If you can contribute from your own experience by posting additional information or answers to questions, or by offering different approaches, please do so. The more you participate, the more valuable ATTIC will be to all of its users.

The Message Center can be accessed through the ATTIC Main Menu, which contains nine message commands (see Exhibit 5). Some of these commands have subcommands that can be viewed by typing H<ENTER> once you have entered the main command. The Message Center commands are explained below.

## What Commands Can You Use?

There are nine commands that enable you to retrieve, create, search, and reply to messages on the ATTIC Bulletin Board. Each command is explained in detail below.

#### **Comment to SYSOP**

The [C] command allows you to leave private messages or comments to the ATTIC system operator. Comments can include questions on how to download bulletins, requests for a source document from a search, or updates for the various components of ATTIC. To leave a comment to the system operator, type C after the "Main Board Command?" prompt. You will be asked if you

**Exhibit 5. Message Center Commands** 

[C]omment to SYSOP
[E]nter a Message
[TS] Text Search Msgs
[K]ill a Message
[Q]uick Message Scan
[R]ead a Message
[RE]ply to Messages
[RM] Re-read Mem'd Msgs
[Y]our Personal Mail

want to leave a message for the Sysop. If you do, type Y < ENTER >; if not, type N < ENTER > or < ENTER >. You will then be asked whether or not to use the Full Screen Editor. If you type N (for no) at this prompt, you will be prompted to enter your message one line at a time. If you type Y (for yes), you will get the full screen editor which has a built-in word processor for entering your message. To use the full screen editor, your software must be capable of interpreting ANSI cursor position commands.

Next, you will be prompted to enter the text of your message. If you have selected the full screen editor, the screen will be slightly different from that in Exhibit 6, and the editing functions are different; for example, to move left a character you use **CTRL>S**. To access the online help for the full screen editor keyboard commands, type **CTRL>Z** (see Appendix B for a list of the specialized keyboard functions of the full screen editor).

At any time while you are entering a comment, you may hit <ENTER> twice and a menu of message completion subcommands will appear on the screen. You may select any of these subcommands by entering the appropriate command letter after the "Text Entry Command?" prompt. The 11 subcommands in the message completion subcommands menu are:

#### Exhibit 6. Comment to SYSOP Command

(119 min. left) Main Board Command? C<ENTER>

Leave a comment for the Sysop? <ENTER> = no? (N) Y<ENTER>
Use Full Screen Editor? (N) N<ENTER>

Enter your text. <ENTER> alone to end. (72 chars/line, 99 lines maximum) (------)

1: I am interested in starting a Special Interest Group focused on treating

2: munitions/explosives. Could you provide me any information on how to do

3: this?

4: < ENTER >

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg Text Entry Command? S<ENTER>

Saving Comment # ...

(A)bort	Aborts the message entry and returns to the Main Board Menu.
(C)ont	Continues the message by returning to line-by-line edit of the message. (Use F
	instead of C to continue your message using the full-screen editor.)
(D)el	Delete prompts you for the line number in the message to delete.
(E)dit	Edit prompts you for the line number in the message to edit, then requires you to
	type the old text that you want to replace followed by a semicolon and the new
	text (e.g., if you typed the word "watse" instead of waste, you could correct it by typing "watse; waste").
(F)ullScr	Returns you to the full-screen editor and to the message for further editing.
(HI)elp	Displays help information.
(I)nsert	Prompts you for the line number preceding where the new text will be entered and
	for the new text to insert.
(L)ist	Re-displays the current message being entered using the line-by-line editor.
(Q)uote	Prompts you for a message number and asks you "to start quoting [copying]
	from which line?" After you enter a response, it asks for the line number to end
,	the quote and imports the quote into your message. (Note: the full-screen editor also
	allows you to quote or list from the original message by using <ctrl>Q.</ctrl>
(S)ave	Saves the message you have entered and sends it to the addressee.
(U)pldMsg	Uploads text from a file.

Once you have completed typing your comment, hit <ENTER> twice, and the message completion subcommands menu will appear on the screen. Type S<ENTER> to save the comment and send it to the SYSOP. (If you are in the Full Screen Editor hit S<ESC> or <CTRL>U.)

Online help is available for leaving a message to the ATTIC system operator. At any time after you have indicated that you wish to leave a comment for the SYSOP, you can access the online help by hitting <ENTER> twice to get the message completion subcommands menu, and typing H<ENTER> to get the (C)omment to SYSOP - Function Help file (see Appendix C for online help files).

#### Enter a Message

To enter a message on the ATTIC Bulletin Board, type E from the "Main Board Command?" prompt. You will be asked to enter the name of the addressee. You can either enter a person's name or hit <ENTER> to address your message to all ATTIC users. Next, you will be prompted to enter the subject of your message. Enter the subject of the message within the spaces shown on the screen (25 characters or less). The next prompt will ask you to enter a message security level. If you want all users to be able to read the message, hit <ENTER>. If you want only the receiver to be able to read the message, type R<ENTER> (for receiver only). Type H<ENTER> at this prompt to see the other available security options.

#### Security Levels ...

- G Allows sender to assign a password so only users who know the password can read the message.
- R Only sender and receiver can read the message.
- S Allows sender to assign a password so only sender can kill message, but all users can read it.
- N All users can read the message.

Next, you will be asked whether or not to use the Full Screen Editor. If you type N (for no) at this prompt, you will be prompted to enter your message one line at a time and you will only be able to edit your message one line at a time. If you type Y (for yes), you will get the Full Screen Editor which has a built-in word processor for entering your message. To use the Full Screen Editor, your software must be capable of interpreting ANSI cursor position commands. If you have selected the Full Screen Editor instead of the Line Editor, the screen will be slightly different from the sample screen in Exhibit 7 and the editing functions are different. To access the online help for the Full Screen Editor keyboard commands, type <CTRL>Z. Appendix B describes the specialized keyboard functions of the Full Screen Editor.

The next prompt will ask you to enter the text of your message. At any time while you are entering a message, you may hit <ENTER> twice to get the message completion subcommands menu, from which you can choose among the 11 subcommands described previously under Comment to SYSOP. When you have completed typing your message, hit <ENTER> twice and type S<ENTER> to save and send the message. There are three additional save commands that can also be used to save your message while executing another command. These are:

- (SC) Allows you to send the same message to another individual.
- (SK) Saves and sends your message and kills the message you are replying to.
- (SN) Saves and sends your message and eliminates re-display of the message you are replying to.

The (SC) Send Copy request will prompt you for the names of users to whom the message should also be sent. The subcommands (SK) and (SN) can be used to send your message if you are replying to a previous message.

#### Exhibit 7. Enter a Message Command

(116 min. left) Main Board Command? E<ENTER>

To <ENTER> = 'ALL'? (John Smith < ENTER>)
Subject < ENTER> = abort? (Bioremediation < ENTER>)
Message Security (H) = help? (N) R < ENTER>
Use Full Screen Editor? (N) N < ENTER>

Enter your text. <ENTER> alone to end. (72 chars/line, 99 lines maximum)

- 1: I found an interesting article on bioremediation of wastes contaminated
- 2: with creosote. I thought it might give you some answers to your
- 3: questions. If you want a copy give me a call.
- 4: <ENTER>

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg Text Entry Command? S<ENTER>

Saving Message # ...

Online help is available for the [E]nter a Message Command. By typing H E < ENTER > after the "Main Board Command?" prompt, the (E)nter a Message - Function Help file will be displayed (see Appendix C for online help files). You can also access this online help file at any time after you have indicated that you wish to enter a message, by hitting < ENTER > twice to get the message completion subcommands menu, and then typing H < ENTER > .

If, after you have posted your message, you wish to change it, you may do so by typing R EDIT < ENTER > at the "Main Board Command?" prompt. EDIT, a subcommand of the [R]ead a Message command, allows the originator of a message to return to that message to modify it.

## **Scanning Messages**

There are several ways to quickly scan messages on the ATTIC Bulletin Board for pertinent information before you read them. These include [TS] Text Search and [Q]uick Message Scan. If you are looking for messages that contain a particular word or phrase, you may use the [TS] Text Search Command. TS scans all message text, subjects, and senders and addressees for a text string that you specify. When you type TS from the "Main Board Command?" prompt, ATTIC will prompt "Enter the text to Scan for (<ENTER> = none)?". Type any string of characters. The text is case sensitive so you must enter upper and lower case letters. ATTIC will then ask for which message number to begin scanning with and will display the highest and lowest active message numbers. To scan in chronological order, pick the lower number. To scan in reverse chronological order, pick the higher number. The screen will indicate that the messages are being scanned in search of the desired text. If no matching text is found in any of the messages on the Bulletin Board, then the message "Sorry, (your name), no mail found to read ..." will appear on the screen. A sample of an unsuccessful text search of messages is presented in Exhibit 8.

#### Exhibit 8. Unsuccessful Text Search of Messages

(119 min. left) Main Board Command? TS < ENTER >

Enter the Text to Scan for <ENTER> = none? treatment of PCBs<ENTER>
Msg # to Begin Search from (1-389)? 1<ENTER>

Scanning Main Board Searching for TREATMENT OF PCBS Sorry, John, no mail found to read ...

If your text search is successful, the message or messages containing the text you are searching for will appear on the screen. An example of a successful text search is presented in Exhibit 9.

Exhibit 9. Successful Text Search of Messages

(119 min. left) Main Board Command? TS<ENTER>

Enter the Text to Scan for <ENTER> = none? treat heavy metals < ENTER> Msg # to Begin Search from (1-390)? 1 < ENTER>

Scanning Main Board
Searching for TREAT HEAVY METALS

 Date:
 10-24-91 (17:02)
 Number:
 376 of 390

 To:
 JANE DOE
 Refer #:
 NONE

 From:
 HARRY JONES
 Read:
 YES

Subj: METALS TREATMENT Status: PUBLIC MESSAGE Conf: MAIN BOARD Read Type: TEXT SEARCH (+)

I have had considerable success using cement-based solidification/stabilization to treat heavy metals. The process I've used immobilized the heavy metals, and the unconfined compressive strength was between 220 to 1570 psi. Durability test results were very good, and the permeabilities were very low. The TCLP of the stabilized wastes were very low; virtually all metals were below 1 ppm.

(118 min. left), (H)elp, End of Message Command?

Another way to do a scan of all messages on the ATTIC Bulletin Board is by using Q for Quick Message Scan. This scan will list the message number, reference number (if any), addressee, sender, and subject of the message, but not the text of the message. When you type Q after the "Main Board Command?" prompt, you will be requested to enter the message number (#) from which you wish to start scanning, or you can enter a particular message number. To limit the scanning to those messages that you have not already read, type Q S at the "Main Board Command?" prompt (S is the

subcommand for "since" your last reading). The command Q L will display all messages in reverse order beginning with the most recent.

To find messages left to or sent by a particular user that you designate, type Q USER < ENTER > at the "Main Board Command?" prompt (the subcommand USER refers to a particular ATTIC user whom you will be prompted to identify). Exhibit 10 shows an example of a Quick Message Scan on the ATTIC Bulletin Board.

#### Exhibit 10. Quick Message Scan

(112 min, left) Main Board Command? Q<ENTER>

(H)elp, (1-398), Message Scan Command? 1 < ENTER >

Scanni	ng Main I	Board		•
Msg#	Ref#	To	From	Subject
33		ALL	ENECOTEC ENECOT	UNDERGROUND STORAGE TANKS
74		MICHAEL IANNIEL	SYSOP	ENHANCED SOIL VAPOR EXTR.
96		ALL	BRUNILDA DAVILA	SUPERCRITICAL CO2
98		ALL	STEVE KINSER	PCBS IN CONCRETE
182		ALL	KEN BLAKE	SITE CHARACTERIZATION
186		ALL	EDWARD VITARELL	EXCAVATION AND TREATMENT
189		ALL	DEREK ARMENTRO	VOCS IN SOIL
298		ALL	ALAN SCHUETZ	MERCURY RETORTING
301		ALL	GEORGE HEROLD	ARSENIC STABILIZATION
367	298	ALAN SCHEUTZ	PAUL NIENABER	MERCURY RETORTING

(H)elp, (1-398), Message Read Command?

There are a number of subcommands for the [Q]uick Message Scan Command, including:

- (F) Scans for message headers from you.
- (Y) Scans for message headers to you.
- (S) Scans for headers above those you have already read.
- (NS) Displays text in non-stop mode.
- (+) or (-) Appended to the end of a number forces the display to be shown in forward or reverse order, respectively.
  - (TS) Searches message headers for specific text.
  - (USER) Selects only those messages to or from the specified user.

There are a number of status flags that are displayed for messages. Each message has a special symbol to its left. These symbols include:

- () A message that can be read by anyone.
- (\*) A private message that is unread by the addressee.
- (+) A private message that was read by the addressee.
- (-) A public message already read by the addressee.

- (~) A comment to the SYSOP that has not yet been read.
- (') A comment to the SYSOP that the SYSOP has read.
- (%) An unread message protected by a SENDER password.
- (^) A message protected by a SENDER password that has been read.
- (!) An unread message protected by a GROUP password.
- (#) A message protected by a GROUP password that has been read.
- (\$) A message to ALL protected by a GROUP password.

There are a number of subcommands available for scanning and searching messages, including:

- (ENTER) Continues on with message read function.
  - (N) Stops reading messages.
  - (NS) Continues reading messages in non-stop format.
    - (T) Threads read (forward) (or T+).
  - (T-) Threads read (backwards).
  - (#) A specific message number between 1 and 9999999.
  - (+) Alone reads messages forward from present position or when appended to a number causes forward reading from that message number.
  - (-) Alone reads messages backwards from present position or when appended to a number causes backward reading from that message number.
  - (F) Selects only messages left by you.
  - (Y) Selects only messages left for you.
  - (YA) Selects only messages left for you or addressed to "ALL."
    - (S) Selects messages above the last one you have read.
    - (A) Reads messages in all SELECTed SIGs.
  - (ALL) Reads messages in all SIGs in which you are registered.
    - (L) Reads messages in backwards order from the last message to the first.
    - (C) Captures the messages to a file for download.
    - (D) Implies a (C)apture and immediately downloads.
    - (Z) Implies a (D)ownload but compresses the file before goodbye.
    - (G) Exits the Bulletin Board.
    - (J) Joins another SIG.
    - (Q) Displays only the message headers (Quick Message Scan).
    - (/) Re-displays the current message.
  - (RE) Enters a reply to the message just read.
  - (RR) Reads the referenced message.
  - (M) Memorizes that message number for later return.
  - (RM) Returns to a previously "memorized" message number.
    - (TS) Searches messages for the specified search criteria.
  - (SET) Sets the number of the last message read.
  - (NEXT) Reads next higher message number available.
  - (PREV) Reads next lower message number available.
  - (USER) Begins a search for messages to/from a specific user.

The (K)ill a Message subcommand is also available for messages to or from you; and for messages from you, the (E)dit subcommand can be used to edit the "To:" and "Subj" of the message header and "Echo" flag, if applicable.

Online help is available for scanning messages on the ATTIC Bulletin Board. At any time after you enter Q in response to the "Main Board Command?" prompt, you can type H < ENTER > to get the (O)uick Message Scan - Function Help file (see Appendix C for online help files).

Online help information is also available for the [TS] Text Search Msgs and the [Q]uick Message Scan Commands. You can access the (End of Message) Command - Function Help file after executing a message scan command (TS or Q) by typing H<ENTER> after the "End of Message Command?" prompt (see Appendix C for online help files).

#### Read a Message

If there are messages addressed to you on the ATTIC Bulletin Board, you will be notified that you have new mail waiting as soon as you logon. The screen will read: "John, you have new mail waiting in the following SIG(s): Main Board ...". The next prompt will ask if you want to scan the messages since you last read the messages (see Exhibit 11). If you wish to scan the messages, type Y < ENTER > or hit < ENTER > after the "Scan Message Base Since 'Last Read' < ENTER > = yes?" prompt. If you do not wish to read the messages, type N (for no).

**Exhibit 11. Reading Your Messages** 

John, you have new mail waiting in the following SIG(s): Main Board ...

Scan Message Base Since 'Last Read' <ENTER> = yes? Y < ENTER>

(Ctrl-K) or (Crtl-X) Aborts, (Crtl-S) Suspends.

<u>Num</u>	SIG Area	<u>Messages</u> <u>To You</u>	Messages Found
0	Main Board	2	26
1	<b>Bioremediation</b>	• 0	1
2	<b>FedRemRtable</b>	0	3

Press <ENTER> to continue? <ENTER>

(118 min. left) Main Board Command? R<ENTER>

(H)elp, (1-392), Message Read Command? 392-<ENTER>

John has two messages since he last read his messages. To read an individual message for which you know the number, type and the number (e.g., R 32), then hit <ENTER>. Since John does not know the message numentered ber(s), he R<ENTER> for [R]ead a Message, followed by 392-<ENTER> to display all public messages starting with the most recent. If John wanted to read only those messages. addressed directly to him, he could type RY<ENTER>.

Even if there are no messages on the bulletin board addressed to you, you can use the [R]ead a Message Command. By typing R after the "Main Board Command?" prompt, you can read all active messages on the Main Board. You will then be prompted to enter the message number to read. By typing R 1 + < ENTER >, after the "Main Board Command?" prompt, all active public messages will be displayed beginning with the oldest and proceeding to the most recent. Alternatively, type R

L<ENTER> to read all active messages in reverse order beginning with the most recent. To read all messages left since the last time you read messages, type R S<ENTER>.

While you are reading messages, you may re-display the previous numerical message in the message base by typing "PREV" at the command prompt. You may re-display the current message by typing "/" at the command prompt.

There are a number of subcommands that can be used to read messages on the ATTIC Bulletin Board, including:

- (F) Selects only messages left by you.
- (Y) Selects only messages left for you.
- (YA) Selects only messages left for you or addressed to "ALL."
  - (S) Selects messages above the last one you have read.
  - (A) Reads messages in all SELECTed Special Interest Groups (SIGs).
- (ALL) Reads messages in all SIGs in which you are registered.
  - (L) Reads in backwards order from the last message to the first.
  - (C) Captures the messages to a file for download.
  - (D) Implies a (C)apture and immediately downloads.
  - (Z) Implies a (D)ownload but compresses the file before goodbye.
  - (G) Exits the Bulletin Board.
  - (J) Joins another SIG.
  - (Q) Displays only message headers (quick scan mode).
  - (NS) Displays text in non-stop mode.
- (RM) Re-reads previously "memorized" message number.
- (RM+). Re-reads "memorized" message number plus forward read.
  - (RM-) Re-reads "memorized" message number plus backwards read.
    - (+) Alone reads messages forward from present position or when appended to a number causes forward reading from that message number.
    - (-) Alone reads messages backwards from present positions or when appended to a number causes backward reading from that message number.
    - (TS) Searches messages for the specified search criteria.
  - (SET) Sets the number of the last message read.
- (EDIT) Puts the current message into the editor for re-editing.
- (NEXT) Reads next higher message number available.
- (JUMP) Skips to the next SIG on a (R)ead (A)ll command.
- (SKIP) Sets the last message read pointer, skips to next SIG.
- (USER) Selects only those messages to or from the specified user.
- (SELECT) Selects the current SIG for future scans.
- (DESELECT) Deselects the current SIG for future scans.

You can streamline the process of reading messages by stacking commands together at the "Main Board Command?" prompt. For example:

R 1+ < ENTER>

This command will read all messages from #1 to the end.

R 1 5 10 20 < ENTER >

This command will read messages 1, 5, 10, and 20 and then stop.

R S < ENTER >

This command will read all mail that is new for you.

R L < ENTER >

This command will read all mail in reverse order beginning to end.

TS A 1+ < ENTER>

PCBoard & LANtastic < ENTER >

This command will search through every available message in ALL SIGs areas you are set to scan for any message that has the word "PCBoard" AND the word "LANtastic" in it.

TS A 1+ < ENTER> PCBoard & (LANtastic | DESQview) <ENTER>

This command will search through every available message in ALL SIGs you are set to scan for any message that has both the word "PCBoard" AND either the word "LANtastic" OR the word "DESOview" in it.

The parentheses tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parentheses and any combination of ANDs (using the "&" character) and ORs (using the "|" character).

<ENTER>

PCBoard & Help < ENTER >

TS A 1+ USER JOHN DOE This command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words "PCBoard" and "Help" in them.

RAZ<ENTER>

This command will capture all messages in ALL SIGs since the last message read, compress the capture file and then begin the download procedure.

R SET 100 < ENTER >

This command sets the last message read for that SIG to 100. You can combine various message read commands on the same command line to save steps in reading messages.

R Y S < ENTER >

This command will read all mail that is addressed to you that is new since you last read mail in this message base.

Online help is available for the [R]ead a Message Command. By typing H<ENTER> after the "(H)elp, (1-XXX), Message Read Command?" prompt, you will get the (R)ead a Message -Function Help file (see Appendix C for online help files).

#### **Your Personal Mail**

The [Y]our Personal Mail Command allows you to quickly read your personal mail on the Bulletin Board. By typing Y < ENTER > after the "Main Board Command?" prompt, you will be asked if you want to scan your mail as well as the messages left to all users, your current mail, or your mail since your last read, as well as whether you want an abbreviated version or the long version. The abbreviated (or quick) version provides you only with the number of messages addressed to and from you on the Main Bulletin Board and the Special Interest Group Bulletin Boards (see How Do You Join a Special Interest Group (SIG)? for more information on Special Interest Groups). The Quick Scan Format provides a display similar to the following:

		Messages	Messages
<u>Num</u>	<u>Conference</u>	to You	<b>Found</b>
0	Main Board	0	18
1	Bioremediation	5	35
2	FedRemRtable	2 .	14

The Long Scan format provides more detail than the Quick Scan format. In addition to the number of messages in each SIG, the Long Scan format provides the message numbers so that you can quickly retrieve the messages. The Long Scan format provides you the following information on your messages:

Scanning Main Board Msgs For You: None Msgs From You: None # Msgs Found: 18

Scanning Bioremediation (1) Conference

Msgs For You: 100 102 110 118

Msgs From You: 89 94 # Msgs Found: 35

Scanning FedRemRtable (2) Conference

Msgs For You: 25 48 Msgs From You: None # Msgs Found: 14

If you want to read all messages left for you since you checked them last, type R Y < ENTER >; and if you want to read your messages as well as public messages addressed to all users, type R YA < ENTER >. Exhibit 12 illustrates how to use the [Y] command.

There are a number of subcommands that can be used with the [Y]our Personal Mail Command, including:

- (A) Scans all SELECTed Special Interest Group (SIG) message bases.
- (ALL) Scans all SIGs in which you are registered.
  - (S) Scans only for mail left since the last message read.
  - (C) Limits the scan to the current message base only.

#### Exhibit 12. Retrieving Your Personal Mail

(110 min. left) Main Board Command? Y<ENTER>

Msg Scan: (A)II, (C)urrent, (S)ince, (Q)uick, (L)ong, <ENTER> = abort? A < ENTER>

(Ctrl-K) or (Ctrl-X) Aborts, (Ctrl-S) Suspends.

<u>Num</u>	SIG Area	<u>Messages</u>	<u>Messages</u>
		to You	<b>Found</b>
0	Main Board	1	28
1	<b>Bioremediation</b>	0	2
2	FedRemRtable	0	3

(107 min. left) Main Board Command? R Y < ENTER >

Date:	10-28-91 (14:32)	Number:	387 of 398
To:	JOHN SMITH	Refer #:	NONE
From:	GEORGE BROWN	Read:	YES
Subj:	BIOREMEDIATION	Status:	<b>PUBLIC MESSAGE</b>

Conf: MAIN BOARD Read Type: GENERAL

I found an interesting article on bioremediation of wastes contaminated with creosote. I thought that it might give you some answers to your questions. If you want a copy give me a call.

(106 min. left), (H)elp, End of Message Command? K<ENTER> Message Killed: Main Board # 387

(H)elp, (1-398), Message Read Command? < ENTER >

Press <ENTER> to continue? <ENTER>

- (+) Scans in chronological order and (-) scans in reverse chronological order.
- (Q) Displays in Quick Scan format.
- (L) Displays in Long Scan format.
- (NS) Displays text output in non-stop mode.

The default setting for the [Y]our Personal Mail Command is to scan the current message base only, in reverse direction, checking for mail left by you as well as mail addressed to you, and to scan the complete message base, from the end of the file to the beginning. You can select which areas you want to be scanned when using the (A) subcommand by using the (SELECT) subcommand or by using the [W]rite User Info Command.

Online help is available for using the [Y]our Personal Mail Command. By typing HY ENTER > after the "Main Board Command?" prompt, or by typing H ENTER > at the "Msg Scan: (A)II,

(C)urrent, (S)ince, (Q)uick, (L)ong, <ENTER> = abort?" prompt, you will get the (Y)our Mail Check - Function Help file (see Appendix C for online help files).

#### Reply to Messages

The [RE]ply to Messages Command is used to reply to messages on the ATTIC Bulletin Board. To reply to a message for which you know the message number, you type RE<ENTER> after the "Main Board Command?" prompt. You will then be asked to enter the number(s) of the messages to which you wish to reply. If you do not want to reply to a message, you can hit <ENTER> to abort the command. Once you have entered the message number(s), you will be prompted to enter a subject for the reply. If the subject is the same as that of the message you are replying to, you can hit <ENTER>, but if you wish to change the subject, you can type in the subject (up to 25 characters). After you have entered the subject, you will be asked whether you want to use the Full Screen Editor. You must respond by typing either N<ENTER> for no or Y<ENTER> for yes. (Remember that to use the Full Screen Editor, your software must be capable of interpreting ANSI cursor position commands.) You will then be prompted to enter the text of your reply (limited to 72 characters per line and a maximum of 99 lines).

Once you have typed your reply, hit <ENTER> twice (unless you are in Full Screen Editor where you hit <ESC> or <CTRL>U). The message completion subcommands menu will appear (see Exhibit 13). If you wish to save and send your reply, type S<ENTER>. You can also save and send your message by typing SK<ENTER> or SN<ENTER>. SK lets you save and send your reply and kill the message you are replying to; and SN saves and sends your message and eliminates re-display of the message you are replying to.

You can also reply to a message you have just read by typing RE<ENTER> after the "End of Message Command?" prompt, as illustrated in Exhibit 14. To copy (or quote) part of the original message into your immediate reply, scroll back (using the arrow keys) to the original message. Scroll to the beginning of the passage you wish to copy and press the space bar. Scroll to the end of the passage and press the space bar again. Then hit <ESC> to transfer the information into your reply. (Note: These scrolling commands may not work with all communications software.)

Online help is available for replying to messages on the ATTIC Bulletin Board. By typing HR<ENTER> after the "Main Board Command?" prompt, you will get the (E)nter a Message Command - Function Help file (see Appendix C for online help files). You can also get this online help file at any time after you have entered the text of your reply by hitting <ENTER> twice to get the message completion subcommands menu. Then you type H<ENTER> to get the Enter a Message Command - Function Help.

## Kill a Message

The [K]ill a Message Command is used to delete messages. To kill a message you need the message number and a sufficient user security level. Generally, ATTIC allows you to kill messages sent by or addressed to you. To kill a message, type K<ENTER> after the "Main Board Command?" prompt. By typing K followed by the message number, you can skip the next prompt which asks you to enter the number of the message you wish to kill. For example, to kill message 89, you would type K 89<ENTER>. It is generally good practice to kill messages once you have read them. You can

## Exhibit 13. Replying to a Message from the Main Menu

(119 min. left) Main Board Command? RE < ENTER >

Reply to Msgs: (#), (#) or <ENTER> to abort? 387<ENTER>

Scanning Main Board

Subject <ENTER> = no change? (BIOREMEDIATION) <ENTER>
Use Full Screen Editor? (N) <ENTER>

Enter your text. <ENTER> alone to end. (72 chars/line, 99 lines maximum)

- 1: I am very interested in getting a copy of the bioremediation article. It < ENTER >
- 2: might give me some information that may be useful in evaluating the < ENTER >
- 3: remediation proposal I received this week. Please fax me a copy at < ENTER >
- 4: 987-654-3210. < ENTER >
- 5: <ENTER>

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg Text Entry Command? S<ENTER>

Saving Message #399

Reply to Msgs: (#), (#) or <ENTER> to abort? <ENTER>

Press <ENTER> to continue? <ENTER>

easily kill a message after reading it by typing K<ENTER> at the "End of Message Command?" prompt. Exhibit 15 illustrates how to kill a message using the [K]ill a Message command from the Main Menu.

You can also kill a message you are responding to when you are sending your reply to that message. By typing S K < ENTER > at the "Text Entry Command?" prompt, you will send your reply to the addressee and simultaneously kill the message you are replying to. Exhibit 16 demonstrates how to kill a message when you are saving and sending the reply to that message.

Online help for killing messages is available. By typing H<ENTER> after the "Text Entry Command?" prompt, you will get the (End of Message) Command - Function Help file (see Appendix C for online help files).

## **Memorizing Message Numbers**

If you do not wish to immediately reply to a message, but would like to either re-read or reply at some future time, you must either write down the message number or use the [RM] Re-read Memorized Messages Command. By typing M<ENTER> after the "End of Message Command?" prompt, the message is marked as a memorized message for later retrieval. The [RM] Re-read Memorized

(119 min. left) Main Board Command? R<ENTER>

(H)elp, (1-389), Message Read Command? 387 < ENTER >

Scanning Main Board

Date: 10-28-91 (14:32)

Number: 387 of 398

To: JOHN SMITH

Refer #: NONE

From: GEORGE BROWN

Read: YES

Subi: BIOREMEDIATION

Status: PUBLIC MESSAGE

Conf: MAIN BOARD

Read Type: GENERAL

I found an interesting article on bioremediation of wastes contaminated with creosote. I thought that it might give you some answers to your questions. If you want a copy give me a call.

(118 min. left), (H)elp, End of Message Command? RE<ENTER>

Subject <ENTER> = no change? (BIO

(BIOREMEDIATION) < ENTER>

Use Full Screen Editor? (N) < ENTER>

Enter your text. <ENTER> alone to end. (72 chars/line, 99 lines maximum)

- 1: I am very interested in getting a copy of the bioremediation article. It < ENTER>
  - 2: might give me some information that may be useful in evaluating the < ENTER >
  - 3: remediation proposal I received this week. Please fax me a copy at < ENTER >
  - 4: 987-654-3210. < ENTER >
  - 5: **<ENTER>**

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg Text Entry Command? S N < ENTER >

Saving Message #399

(115 min. left), (H)elp, End of Message Command? <ENTER>

(H)elp, (1-399), Message Read Command? <ENTER>

Press < ENTER > to continue? < ENTER >

Messages Command when entered after the "Main Board Command?" prompt, will re-display the memorized message(s).

# Exhibit 15. Killing a Message from the Main Menu

An example of how to use the [RM] command is presented in Exhibit 17. Online help for reading memorized messages is available. By typing HRM<ENTER> after the "Main Board Command?" prompt or by typing H<ENTER> after the "Message Read Command?" prompt, you will get the (R)ead Messages - Function Help file (see Appendix C for online help files).

(116 min. left) Main Board Command? **K<ENTER>** 

Enter the Message # to Kill < ENTER > = none? 390 < ENTER >

Message Killed: Main Board # 390

Press < ENTER > to continue? < ENTER >

Exhibit 16. Killing a Message When Saving the Reply

(119 min. left) Main Board Command? RE<ENTER>

Reply to Msgs: (#), (#) or <ENTER> to abort? 387<ENTER>

Subject <ENTER> = no change? (BIOREMEDIATION) <ENTER>
Use Full Screen Editor? (N) <ENTER>

Enter your text. <ENTER> alone to end. (72 chars/line, 99 lines maximum)

- 1: I am very interested in getting a copy of the bioremediation article. It < ENTER >
- 2: might give me some information that may be useful in evaluating the < ENTER >
- 3: remediation proposal I received this week. Please fax me a copy at < ENTER >
- 4: 987-654-3210. < ENTER >
- 5: <ENTER>

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg Text Entry Command? S K<ENTER>

Saving Message #399

Message Killed: Main Board # 387

#### **How Do You Access Bulletins?**

Bulletins are short files that can be read by the user online or captured or downloaded for future reading. Bulletins contain information such as a description of ATTIC, recently published engineering bulletins, descriptions of new databases coming to ATTIC, upcoming remediation projects, preliminary results for Superfund Innovative Technology Evaluation (SITE) program demonstrations, and other announcements relevant to alternative treatment technologies. Bulletins can be uploaded to ATTIC by users, but must

# Exhibit 17. Memorizing Message Numbers for Future Retrieval

(119 min. left) Main Board Command? RY<ENTER>

Scanning Main Board ...

From: GEORGE BROWN Read: YES
Subj: BIOREMEDIATION Status: PUBLIC MESSAGE

Conf: MAIN BOARD Read Type: GENERAL

I found an interesting article on bioremediation of wastes contaminated with creosote. I thought that it might give you some answers to your questions. If you want a copy give me a call.

(118 min. left), (H)elp, End of Message Command? M<ENTER> Message Number Memorized ...

(108 min. left) Main Board Command? RM < ENTER >

Subi:

Scanning Main Board

Date: 10-28-91 (14:32) Number: 387 of 398
To: JOHN SMITH Refer #: NONE

Status:

**PUBLIC MESSAGE** 

From: GEORGE BROWN Read: YES

Conf: MAIN BOARD Read Type: GENERAL

I found an interesting article on bioremediation of wastes contaminated with creosote. I thought that it might give you some answers to your questions. If you want a copy give me a call.

BIOREMEDIATION

(107 min. left), (H)elp, End of Message Command? RE<ENTER>

first be formatted by the ATTIC system operator before they are made available to other users. Bulletins can be displayed as follows:

• List Bulletins To view a list of all bulletin titles, type B < ENTER > at the "Main Board Command?" prompt.

To read a bulletin for which you already know the number, simply type B followed by a space and the number of the bulletin, and then hit <ENTER> (e.g.,

**B 5<ENTER>**).

• Read All Bulletins To read all bulletins beginning with Bulletin 1, type B

A < ENTER > .

• Read New Bulletins To read only those bulletins new to you since you last

logged on type B A N < ENTER > .

Scan Bulletin Text To scan bulletin text, type B S < ENTER >. You will

be prompted to enter a text string to search for; if a text

match is found, the entire bulletin is displayed.

An illustration of how to use the [B]ulletin Listing Command is provided in Exhibit 18. There are a number of subcommands that can be used with the [B]ulletin Listing Command, including:

(A) Displays all of the bulletins.

(D) Goes immediately into download mode to send the bulletin.

(N) Displays a requested bulletin only if it is new to you.

(R) Re-displays the Bulletin Menu choices.

(S) Scans the bulletins for text.

(NS) Displays the request in non-stop mode.

When selecting the bulletins you wish to read, the bulletin numbers can be entered on the same command line separated by spaces or semicolons, such as 1 2 3 or 1;2;3. Typing the (A) subcommand will select all of the bulletins for display. Combining (A) with (N) would display all new bulletins while combining (A) with (S) would search all bulletins and display only those bulletins containing the search text entered. For example, by typing B A N D < ENTER > after the "Main Board Command?" prompt, you could download all new bulletins. Typing (NS) selects non-stop mode which avoids page breaks in the display.

The (D) subcommand puts the system immediately into download mode to send the file using the default protocol. Bulletins can be downloaded for future reading or reference. Each bulletin is a file called BLT followed by the bulletin number (e.g., the file containing Bulletin 10 is BLT10). See Chapter 4 for instructions on downloading.

Online help is available for listing bulletins. By typing H<ENTER> at the "(H)elp, (1-16), Bulletin List Command?", you can obtain the (B)ulletin Listings - Function Help file (see Appendix C for online help files).

#### **How Do You Get the News?**

To keep users informed of changes, additions, and scheduled maintenance for ATTIC, there is a NEWS file that is automatically displayed when you logon for the first time and thereafter whenever the news changes. The news contains information about new features, bulletins, and files on ATTIC, announcements of events, changes in policy or procedures on ATTIC, and notices about any interruptions of service on ATTIC. To display the news file, type NEWS at the "Main Board Command?" prompt. The use of the [NEWS] Screen Display command is illustrated in Exhibit 19.

#### **Exhibit 18. Listing ATTIC Bulletins**

(119 min. left) Main Board Command? B<ENTER> = = = = = [EPA Alternative Treatment Technology Information Center] = = = = = = = MAIN BOARD BULLETINS To read a bulletin, type the number of the bulletin and hit <ENTER>. To download one of these bulletins, type "n D" from the "Bulletin Command?" prompt (without the quotation marks), where "n" is the bulletin number. Turn CApture off in CrossTalk. 1 - About the Altervative Treatment Technology Information Center (ATTIC) 2 - List of Prequalified Incineration Vendors 3 - Use of Landfarming to Remediate Soil Contaminated by Pesticide Waste (HWR91-084) 08/02/90 -12/30/92 State Natural History Survey 4 - EPA Engineering Bulletin: Solvent Extraction Treatment, EPA/540/2-90/013, September 1990. 5 - Coming to ATTIC: Inventory of Treatability Study Vendors Database 6 - VISITT, A New Innovative Technology Vendor Database 7 - Sandia Demonstration Project: Details 8 - Federal Register: Call for Bioremediation Reports (H)elp, (1-9), Bulletin List Command? 1 WELCOME TO ATTIC ATTIC is a comprehensive information network providing up-to-date information on alternative treatment technologies. ATTIC includes: ELECTRONIC BULLETIN BOARD - which includes a message center, bulletins, and special interest groups (mini-bulletin boards focused on a specific area). ONLINE DATABASES - including the ATTIC database, the RREL Treatability database, the Technical Assistance Directory, and the Calendar of Events. HOTLINE - provides a telephone link to the ATTIC system operator to request searches, access databases not available online, get technical assistance, and obtain copies of source documents. REPOSITORY - hard copy collection of the source documents abstracted in the ATTIC database.

Using the Bulletin Board

(H)elp, (1-8), Bulletin List Command? **<ENTER>** 

(118 min. left) Main Board Command? NEWS < ENTER >

#### ATTIC SYSTEM NEWS

30 August 1991

#### ATTIC DATABASE SOFTWARE INSTALLED

ATTIC database software has been undergoing major renovations during the past month. The new database is now online. Keyword searches are now faster and more efficient, and keyword search capability has been expanded to allow up to 10 search levels with up to 10 words per level. The new system allows the use of AND, OR, and NOT commands for searching. FULL TEXT SEARCHES of the abstract summaries and site names/locations are now available so that you may search for terms or phrases not listed in the keyword thesaurus. Also, you will be able to call back for reports of searches that you generated earlier. The keyword thesaurus is our next target for improvement. We will also be adding several hundred new abstracts this Fall.

26 AUGUST 1991

#### EPA HEADQUARTERS PHONE NUMBERS HAVE CHANGED

EPA locations at Waterside Mall and the Fairchild Building have moved to the new Washington Interagency Telecommunications System (WITS). Effective August 24, 1991, phone numbers will be changed from their old prefix of either 382-XXXX or 475-XXXX to 260-XXXX. The facsimile telephone numbers will also change. If you have any questions concerning this change, please contact Natalie McCain of Telecommunications at (202) 260-2029.

(117 min. left) Main Board Command?

### **How Do You Chat With Other Users?**

The [CHAT] Between Nodes Command allows you to communicate interactively with other users who are logged onto ATTIC at the same time you are. To see if there are any other callers available for an online conversation, type CHAT < ENTER > after the "Main Board Command?" prompt. ATTIC will show a list of who is logged onto each node of ATTIC and whether they are available to chat or in a door (a user cannot chat until he/she leaves the door). To initiate a CHAT with one of these users, type the number of the node the user is on. After you type a number, ATTIC will send a message to that user's screen saying "(User's Name) wants to chat with you, (Your Name)." To begin chatting with the other user, you type CHAT (#) after the "Main Board Command?" prompt (where # is the number of the node the other user is on). Once the other user enters the CHAT command, you can communicate interactively. The screen will show your name and the number of the node you are on followed by a colon. Type your message one line at a time. Each line is transmitted to the other user as soon as you press the <ENTER > key. To exit the CHAT mode, type Q<ENTER > or

**E**<ENTER> on a line by itself. Either user can end a CHAT session. A sample CHAT session is depicted in Exhibit 20.

#### **Exhibit 20. Chatting With Other Users**

#### (119 min. left) Main Board Command? CHAT<ENTER>

<u>(#)</u>	Status	User
1	Available for CHAT	John Smith (Seattle, Washington)
2	Available for CHAT	George Brown (Denver, Colorado)
3	Available for CHAT	Jane Doe (Atlanta, Georgia)
4	Logging into System	
5	No Caller this Node	
6	No Caller this Node	
7	No Caller this Node	
8	No Caller this Node	
9	No Caller this Node	•

Node CHAT: (#), (G)roup, (U)navailable, (H)elp, <ENTER> = none? 2<ENTER>

John Smith wants to Node CHAT with you, George. To respond, at the main Command line enter (CHAT) (1)

The screen above shows the commands typed by John Smith to enter into node CHAT with George Brown. George's screen and the subsequent chat session is shown below.

(119 min. left) Main Board Command? CHAT

Node CHAT? (#), (G)roup, (U)navailable, (H)elp, <ENTER> = none? 1<ENTER>

Node CHAT entered at 09:55

Node CHAT Commands Available:

(Q)uit or (E)xit to Quit (U)sers to View Node CHAT Status (H)elp or (?) for Help

Enter (U) for status while awaiting other caller ...

(1) John : Hi George. I just faxed you a copy of the article. < ENTER>

(2) George : Thanks John. I appreciate you getting it to me so fast. < ENTER>

(2) George : See you at the conference next week. Bye. < ENTER >

(1) John : Q<ENTER>

Node CHAT ended at 09:57

Press <ENTER> to continue?

There are a number of subcommands that can be used with the [CHAT] Between Nodes Command, including:

- (G) Places you in Group CHAT with others.
- (A) Flags your Node as being available for CHAT (default).
- (U) Flags your Node as being unavailable for CHAT.

When in Node CHAT, the following subcommands are available:

- (Q) Quits the Node CHAT session.
- (E) Also quits the Node CHAT session.
- (U) Displays the status of the other Nodes.
- (H) Gives a quick display of these subcommands.

When conversing in Node CHAT, there can be delays between when you enter your text to the other person, and the time it takes them to respond. Since text is only sent to the other Node when an <ENTER> key is hit or word-wrap occurs, there can be time periods of several seconds between text coming back to your screen. Please WAIT until it is your turn to type! You may want to end your text with a "/ga" or "/o" to indicate it is the other person's turn to type--and then WAIT for the response.

Online help is available for the [CHAT] Between Nodes Command. By typing H CHAT < ENTER > after the "Main Board Command?" prompt or by typing H < ENTER > after the "Node CHAT: (#), (G)roup, (U)navailable, (H)elp, < ENTER > = none?" prompt, you will get the (CHAT) or (NODE) Node CHAT - Function Help file (see Appendix C for the online help files).

## What Are Script Questionnaires?

The [S]cript Questionnaire Command displays a list of questionnaires available for you to complete. A script questionnaire is a set of questions that the system operator has set up where the answers that you provide will be recorded in a file for later analysis or processing. If there are no questionnaires on ATTIC at the time of your call, the screen will indicate such and you will be returned to the "Main Board Command?" prompt. If scripts are present, a menu of questionnaires will be displayed, including the number of the choices available. To complete a script, enter the number indicated.

After selecting a valid script questionnaire number, a brief description of the purpose and scope of the questionnaire will be displayed, and you will be asked if you wish to continue. If you indicate yes by typing Y < ENTER >, the script will begin. Once the script is initiated, you will be displayed a prompt of one or more lines which will ask you a question, followed by an input field in which you can enter your response. You are limited to a one line response for each question. Responses cannot be longer than the brackets shown above the input line. Attempting to exceed the input length will cause the host to send you a "BEEP" and will pause awaiting either the shortening of your response or the pressing of your <ENTER > key. An example of how the [S]cript Questionnaire Command works is presented in Exhibit 21.

# How Do You Join a Special Interest Group (SIG)?

ATTIC has a number of mini-bulletin boards known as Special Interest Groups (SIGs) where callers with similar interests can communicate with one another. SIGs have all of the same functions and capabilities

### Exhibit 21. Sample Script Questionnaire

(118 min. left) Main Board Command?	S <enter></enter>
	= = = [Script Questionnaires] = = = = = = = = = = = = = = = =
Questionnaire	
	Description
	Annual Registration Questionnaire
2	Order Form for Users Manual
Questionnaire # to Answer <enter> =</enter>	none? 1 < ENTER >
***************************************	•••••••••
Script Que	estionnaire Number 1 Annual Registration
	on expires, you will have only 15 minutes per day until
	you complete this questionnaire.
***************************************	***************************************
·	
Complete the Questionnaire <enter> =</enter>	=no? (N) Y < ENTER >
Please record below your complete mailing	ing address.
	(1) Agency/Office/Organization, (2) Street Address and Mail Code (if any),
(1) Agency/Company/Office/Organization (Cleaner Technologies <enter>)?</enter>	(also Mail Code, if applicable)
(2) Complete Business Mailing Address (111 First Street, Suite 100 <enter>)</enter>	
(3) City	
(Dallas <enter>)?</enter>	
(4) State (use 2-letter abbreviation) (TX < ENTER > )?	·
(5) Zip Code (75202 <enter>)?</enter>	
Your phone number is on file as 214-655 Main Menu to update it.	5-XXXX. If this is incorrect, please execute the [W]rite command from the
· - · · · · · · · · · · · · · · ·	ned to determine if you are an employee of the U.S. EPA; a state, local or ntractor.
Are you an employee of the U.S. Environ (No < ENTER > )?	nmental Protection Agency?
Are you an employee of a state, local, or (No < ENTER >)?	r other federal agency? If so, which one?
Are you a current EPA contractor? (Yes < ENTER > )?	
( <enter>)? Main Board Questionnaire (1) Info. Saved</enter>	d.

as the Main Board (menus, news, messages, files, bulletins, and doors), but each SIG focuses on a specific subject area. As a new user, you are automatically given access to join the SIGs open to all ATTIC users. For other SIGs, however, you must request membership. To view a list of SIGs, type

Special Interest Groups or SIGs are minibulletin boards that focus on a specific topic or area, such as bioremediation.

J<ENTER> after the "Main Board Command?" prompt. If you want to register to join a SIG that is not open to all ATTIC users, leave a comment to the ATTIC system operator (SYSOP) by typing C<ENTER> at the "Main Board Command?" prompt. Generally, by the next business day the system operator will have changed your user record enabling you to join the SIG(s).

To join a SIG, type J<ENTER> at the "Main Board Command?" prompt. ATTIC will provide you with a list of the available SIGs, indicating whether they are open to all ATTIC users. You will then be asked which SIG area number you wish to join. The procedure for joining a SIG is presented in Exhibit 22.

Exhibit 22. Joining a Special Interest Group

Once you join a SIG, the news for that SIG will automatically be displayed, and you will be notified if any of the SIG bulletins have been updated since your last time on. To get the SIG Main Menu, hit <ENTER> at the "Press <ENTER> to continue?" prompt. The Main Menu for the Bioremediation SIG is presented in Exhibit 23.

The name or number of the SIG to be joined can be included with the [J]oin a SIG Command on the same line. For example, by typing J 1 < ENTER > you have joined SIG #1. If you are not registered in the SIG requested, you will be advised of such and returned to the "Main Board Command?" prompt.

To exit a SIG and return to the Main Board, type A < ENTER > for abandon. To exit one SIG and join another, type J followed by a space and then the number of the other SIG you wish to join. Online help for the [J]oin a SIG Command is available. By typing H < ENTER > after the "Special Interest Group area # to Join < ENTER > = none?" prompt, you will get the (J)oin a Special Interest Group (SIG) -Function Help file (see Appendix C for online help files).

Using the Bulletin Board 3-27

Exhibit 23. Bioremediation SIG Main Menu

* * *	*******	BIOREMEDIATION MAIN MENU	<i>}</i> ********************	* * * •
*	-ANNOUNCEMENTS- (B)ulletin Listings (NEWS) Read News	* -CONFERENCES- * (A)bandon a Conference * (J)oin a Conference	* -DATABASES- * (OPEN) a database *	* * *
* * * *	-MESSAGES-	* -FILES AND DIRECTORIES-	* -MISCELLANEOUS-	* * * :
* * * * * * * * * * * * * * * * * * *	(C)omment to SysOp (E)nter a Message (K)ill a Message (REPLY) to Messages (R)ead Messages (Q)uick Message Scan (Y)our Private Mail	* (F)ile Directories  * (D)ownload a File  * (U)pload a File  * (T)ransfer Protocol  **********************************	* (H)elp * * * * *	* * * * * * * *

Even though the SIGs are separate areas of ATTIC, users can scan the SIG messages from the Main Board. To read messages in all of the SIGs for which you are registered as well as the Main Board, type R ALL < ENTER > at the "Main Board Command?" prompt. If there is a set of SIGs that you routinely monitor, you can SELECT that group of SIGs to scan messages. Type SELECT < ENTER > at the "Main Board Command?" prompt. ATTIC will provide you with a list of SIGs. Type in the numbers of the SIGs that you regularly want to scan. If you decide that you no longer wish to scan that SIG, just use the (D) Command to DESELECT the SIG. Typing the number of a SIG that you have already selected will DESELECT that SIG.

There are a number of subcommands that can be used for selecting the SIGs you wish to scan, including:

- (S) Selects ALL Special Interest Groups (SIGs).
- (D) Deselects ALL SIGs.
- (#) Toggles a specific SIG on or off.
- (#-#) Toggles a range of SIGs on or off.

The (SELECT) subcommand is used tell the system which SIGs you are interested in (or not interested in). It affects the scanning of SIGs when reading or searching for mail. The command can also be used to reset the Last Message Read pointers in each of the SIGs selected. For example:

**SELECT S < ENTER >** This command would select ALL SIGs to be scanned or read.

SELECT 1 < ENTER > If SIG #1 was already selected then it is turned off. If it was not already selected then it will be turned on and you will be prompted for a new Last Message Read number for that SIG.

#### SELECT D 1-3 6 < ENTER >

This command starts out by deselecting all SIGs after which it reselects SIGs 1 through 3 followed by 6. It will then prompt the caller for any last message read changes in each of the newly selected SIGs.

Once you have SELECTED SIGs, every time you use a scan or read command (i.e., Q, R, or Y) with the subcommand (A), ATTIC will automatically operate only on the selected message bases. You can also SELECT or DESELECT as a subcommand of the [R]ead Messages command.

Online help is available for the [SELECT] Msg Areas to Scan command. By typing H<ENTER> at the "Enter SIG Numbers, (S)elect All, (D)eselect All or (Q)uit?" prompt, you will get the (SELECT) SIGs to Scan - Function Help file (see Appendix C for online help files).

# 4. Uploading and Downloading Files

# What is Uploading and Downloading?

Uploading and downloading are functions that allow you to transfer files between ATTIC and your computer. Uploading is the process by which you send files from your computer to ATTIC. Downloading is the process by which you send files from ATTIC to your computer. This chapter discusses uploading and downloading files on the ATTIC Bulletin Board. A detailed discussion of downloading files from the ATTIC Database is presented in Chapter 5--Using the ATTIC Database (see Download Search Results and How Do You Call Back and Download Saved Files?).

There are three steps involved in uploading and downloading:

- (1) Setting the file transfer protocol,
- (2) Giving ATTIC the command for uploading or downloading, and
- (3) Giving your communications software the command to send or receive the file.

#### How Do You Set the Transfer Protocol?

The transfer protocol is the name of the language used by your communications software and ATTIC software to send or receive files. The transfer protocol verifies that the data received are identical to the data sent. If an error occurs, the transfer protocol detects it and causes the data to be re-sent. You need to set the transfer protocol on ATTIC to match the protocol used by your communications If you are not sure which software. protocol to choose. check communications software manual to see which protocol(s) it supports. ATTIC

ATTIC supports the the following transfer protocols:

ASCII (Non-Binary)

Xmodem (Checksum--Use with CrossTalk)

Xmodem-CRC

1K-Xmodem

Ymodem (Batch U/L and D/L)

Zmodem (Batch U/L and D/L)

Kermit (PCKermit/Columbia Univ.)

supports Xmodem, Ymodem, Zmodem, Kermit, and several other transfer protocols.

To set the transfer protocol (or change it) on ATTIC type T<ENTER> after the "Main Board Command?" prompt and choose among the protocols listed in the menu. Once selected, ATTIC keeps a record of your protocol and will use it automatically for future uploads or downloads. It can, however, be changed if necessary. An example of how to set or change the transfer protocol is presented in Exhibit 24.

# Exhibit 24. Setting or Changing the Transfer Protocol

(118 min, left) Main Board Command? T<ENTER>

- (A) Ascii (Non-Binary)
- = > (X) Xmodem (Checksum--Use with CrossTalk)
  - (C) Xmodem-CRC
  - (O) 1K-Xmodem
  - (Y) Ymodem (Batch U/L and D/L)
  - (Z) Zmodem (Batch U/L and D/L)
  - (K) Kermit (PCKermit/Columbia Univ.)
  - (N) None

Default Protocol Desired <ENTER> = no chang ∉?

Default Protocol set to Zmodem (Batch U/L and

Press < ENTER > to continue? < ENTER >

To set or change the transfer protocol, type T < ENTER > after the "Main Board Command?" prompt. A list of transfer protocols will appear with an arrow indicating the current setting. Enter the desired letter of the protocol a n d The screen Will Z SIENTER > Protocol set to (your selection)".

You can view the protocol setting by typing V<ENTER> after the "Main Board Command?" prompt.

#### What Files Are Available for Download?

A variety of files such as databases, utilities, bulletins, and documents are stored on ATTIC for downloading. To view the list of files available for downloading, you can use the [F]ile Directories Command. By typing F<ENTER> after the "Main Board Command?" the screen will display a listing of the file directories available. To view one or more of the directory listing files, enter the number of the file(s) you wish to view. An illustration of how to use the [F]ile Directories Command is presented in Exhibit 25. You will see a menu listing two file areas. File Directory 1 lists files pertaining to the use of ATTIC. File Directory 2 lists public domain software files. Choose 1 or 2 to see a list of file names in that directory. These directories are listings only. If you want to download a file, you must flag it (see below) or download it from the "Main Board Command?" prompt, using the [Dlownload a File Command.

Multiple listings can be viewed at the same time by entering several numbers on the same line, each separated by a space. For example, you could type F 1 2 < ENTER > after the "Main Board Command?" prompt to display the File Directories 1 and 2.

From the "File List Command?" prompt, there are a number of subcommands you can use to help you scan and download files:

• (F)lag

When you see a file (or files) that you would like to download, mark it (flag it) for future downloading by typing F<ENTER> after the "(H)elp, (V)iew, (F)lag, <ENTER> = More?" prompt

(119 min. left) Main Board Command? F<ENTER>

- 1. ATTIC File Transfer (Main BBS File List)
- 2. Public Uploads. The files uploaded by users are automatically scanned for viruses. However, they have not necessarily been verified for effectiveness and accuracy by the Sysop. Use them at your own risk. (If you find major problems with any of these, please leave us a comment so we can delete or fix them before anyone else gets stuck.)

(H)elp, (1-2), File List Command? 1 < ENTER >

#### ATTIC MAIN DOWNLOAD FILES

Most files are compressed into an archive with the name extension "ZIP." To extract these files, you will need a utility called PKUNZIP.COM, which is included in the PKZ110.EXE self-extracting package available on this Bulletin Board.

Filename PKZ110.EXE	<u>Size</u> 149219	<u>Date</u> 07-10-91	Description of File Contents  PKZIP/PKUNZIP utilities (self extracting)  Use these utilities to archive/unarchive ATTIC files with a .ZIP extension. After downloading this file, simply type its name at the DOS prompt. It will unpack itself. For help call the SYSOP at 301-670-6294.
DSZ0703.ZIP	88696	07-04-91	Omen Technology's 7/3/91 version of ZMODEM. One of the best, fastest file transfer protocols for uploads and downloads. Shareware. Uploaded by: Jay Bassin
MACUNZIP.SIT	40320	06-07-91	This Mactintosh utility will decompress files that are Zip'd and create a Mac ASCII file. This is essential for any Mac users to use the many Zip'd files on ATTIC. Includes a brief manual. Decompress with Stuffit (available on most Mac BBSs). Uploaded by: Jay Bassin
DEMO.ZIP	70633	06-07-91	PC-compatible simulator/demonstration of EPA's CLU-IN BBS.

(H)elp, (1-2), File List Command? 2<ENTER>

# Public Uploads These files have not been checked by the System Managers.

Download and use at your own risk.

Filename	<u>Size</u>	<u>Date</u>	Description of File Contents
301	3	08-29-91	Arsenic Uploaded by: George Herold
SCAN.COM	2176	10-23-91*	Scan dir by ext and print memavail Uploaded by: Bill Mason
MAPMEM.EXE	10240	10-23-91*	Map memory allocation for progs and TSRs Uploaded by: Bill Mason
FPRO202D.ZIP	245128	03-05-92	Virus-checking program Uploaded by: Dave Natella

(H)elp, (1-2), File List Command? <ENTER>

This will allow you to specify a list of files that you can download all at once using the [DB] Download Batch Command (see section on downloading for more information). You can also type FLAG<ENTER> from the "Main Board Command?" prompt if you know the name of the file or files to flag for download.

• (A)ll File Directories

When you use the (A) subcommand with the [F]ile Directories Command, the screen will display all file directories.

• (Z)ippy Directory Scan

If you want to search all file descriptions to find specified text, type Z<ENTER> after the "(H)elp, (1-2), File List Command?" prompt. You will be prompted to enter the text for which to search. ATTIC will search for your text string in the file description as listed in the file directory.

• (N)ew Files

You may use the (N) subcommand to display only new file directories (locates files by date).

• (L)ocate File

When the (L) subcommand is used with the [F]ile Directories Command, ATTIC will locate files by name. You can use valid DOS wildcards (e.g., \*.\*) to locate files.

• (V)iew a ZIP File

You may view the contents of a compressed file (ZIP file) by typing V<ENTER> after the "(H)elp, (1-2), File List Command?" prompt. You will see a display showing the name, file size before compression, file size after compression, and file date and time of all the files contained in the ZIP file.

• (NS) Non-Stop Mode

You may use this subcommand to display the file directory listings in non-stop mode, with screen pauses every 23 lines.

• (D)ownload Filename

You may use this subcommand to request a download of a specific file after the "(H)elp, (1-2), File List Command?" prompt to avoid having to return to the Main Menu. If you elect to download a file just (V)iewed, the filename of the (V)iewed file will automatically be carried forward as the download filename request unless overridden by you.

Online help is available for the [F]ile Directories Command. By typing H<ENTER> after the "(H)elp, (1-2), File List Command?" prompt, you will get the File Directories - Function Help file (see Appendix C for online help files).

To flag a file, you use the [FLAG] for Download Command. By typing FLAG < ENTER > after the "Main Board Command?" prompt, you will be asked to enter the filename to flag for download. Flagging files for download is described under "How Do You Flag a File for Download?" later in this chapter.

#### How Do You Locate a File?

#### Locate a File

You can use the [L]ocate Files Command to scan the file directories for the filename you are looking for. After the "Main Board Command?" prompt, you type L<ENTER>. You will then be asked to enter the filename to search for. Once you enter a filename, you will be prompted to enter the directories to search. If a match is found, the screen will display the filename, the

Experienced users can save time by combining locate file commands on the same line. For example, to locate all new files matching TEST\*.\*, you can type--

L TEST\*.\* N A

size of the file, the date it was uploaded on ATTIC, and a brief description of the file contents. You can use valid DOS wildcards in your filename request if you are unsure of the exact filename of the file you are searching for. For example, you can type L TEST\*.\* A < ENTER > to search all directories for any file beginning with TEST. If the filename you enter to locate is less than eight characters long and no wildcards have been used, ATTIC automatically appends "\*.\*" to the name (i.e., searching for TEST turns into TEST\*.\*). If an invalid filename is requested, ATTIC will automatically switch to a (Z)ippy Directory Scan Command (see next section). An example of how to use the [L]ocate Files Command is presented in Exhibit 26.

There are a number of subcommands that can be used with the [L]ocate Files Command to assist you in finding the file(s) you are looking for, including:

• (A) Il Files The (A) Il Files subcommand can be used to scan all available file directories.

• (D)ownload The (D)ownload subcommand can be used to download all of the files you located in your search.

• (N)ew Files The (N)ew Files subcommand can be used to search files by date (e.g., only new files).

• (U)pload The (U)pload subcommand can be used to scan only the files available in the upload file directories.

• (NS) Non-Stop The (NS) Non-Stop subcommand can be used to display the listing in non-stop mode.

Online help is available for the [L]ocate Files Command. By typing HL<ENTER> after the "Main Board Command?" prompt, you will get the (L)ocate Files by Name - Function Help file (see Appendix C for online help files).

# Scan to combine text searches and date searches and flag the files found for later downloading--

Experienced users can use [Z]ippy Directory

Z PCBoard A N < ENTER > 120190 < ENTER >

#### **Zippy Directory Scan**

The [Z]ippy Directory Scan Command allows you to search the download directories for words or phrases either in the filename itself or in the

(118 min. left) Main Board Command? L<ENTER>

Search Filename (wildcards are OK) < ENTER > = none? DEMO\*.\* < ENTER >

Files: (1-2), (A)II, (U)ploads, <ENTER> = none? A < ENTER>

Scanning Directory 1 (ATTIC BBS Main Download Directory)

DEMO.ZIP 70633 06-07-91 PC-compatible simulator/demonstration of EPA's CLU-IN

BBS.

Scanning Directory 2 (Recent Uploads)

(117 min. left) (H)elp, (V)iew, (F)lag, <ENTER> = More? V<ENTER>

Filename to View <ENTER> = none? (DEMO.ZIP < ENTER>)

Checking View request. Please wait, John ...

<u>Filename</u>	<u>Length</u>	<u>Method</u>	SF	Size Now	<u>Date</u>	<u>Time</u>
CLU-IN.DBD	63548	Imploded	61%	24484	07 Jun 91	08:00
RDEMO.EXE	88225	Imploded	48%	45385	16 Dec 87	16:07
READ.ME	410	Imploded	14%	352	07 Jun 91	15:57
Total 3	152183		53%	70221		

View executed on file (DEMO.ZIP)

(116 min. left), (H)elp, (V)iew, (F)lag, <ENTER> = More? F<ENTER>

Enter the filename to flag for download <ENTER> = none? DEMO.ZIP < ENTER> Checking file transfer request. Please wait ...

(1) DEMO.ZIP

70633 bytes

5.4 minutes (approximate)

(116 min. left), (H)elp, (V)iew, (F)lag, <ENTER> = More?

description of the files. You can execute this scan by typing Z<ENTER> after the "Main Board Command?" prompt or by typing Z<ENTER> at the "File List Command?" prompt when using the [F]ile Directories Command. There are a number of subcommands that can be used with the [Z]ippy Directory Scan Command, including:

- (A) Il Files The (A) Il Files subcommand allows you to scan all directory listings for the text you are searching for.
- (D)ownload The (D)ownload subcommand will download all files found in the scan.
- (N)ew Files The (N)ew Files subcommand combines the text scan with a date scan.
- (S)ince The (S)ince Last Date Scanned subcommand combined with the (N)ew Files subcommand lets you search only the new files since the last date you scanned the files.

- (U)pload The (U)pload subcommand lets you scan only the upload directories for the desired text.
- (NS) Non-Stop The (NS) Non-Stop subcommand displays the screen output in non-stop mode.

The [Z]ippy Directory Command can be used with each of these subcommands to tailor your search: For example, you can type:

# Z biological A N<ENTER> 120190<ENTER>

to combine a text search for the word "biological" with a date search of 12/01/90 or later in searching all new download directories. You could also type **Z physical A S D<ENTER>** to scan the new files since your last search for the word "physical."

Online help is available for the [Z]ippy Directory Scan Command. By typing H Z < ENTER > after the "Main Board Command?" prompt, you will get the (Z)ippy Directory Scan - Function Help file (see Appendix C for the online help files).

Additional online help for using the [Z]ippy Directory Scan Command is available. By typing Z < ENTER > after the "Enter the Text to Scan for < ENTER > = none?" prompt, ATTIC will display examples of using boolean "and/or" searching (see Appendix C for online help files).

#### **New Files**

As indicated in the examples above, you can use the [N]ew Files Command to display file listings based on a date scan of when the file was placed on the ATTIC system. Matching files are those dated with the specified search date and those files with more recent dates.

Experienced users can save time by combining [F]lag for Download commands on the same line--

FLAG filename1 filename2

To locate new files by date, type N<ENTER> after the "Main Board Command?" prompt.

You can also scan files by date by typing N<ENTER> after the "(H)elp, (1-2), File List Command?" prompt when executing the [F]ile Directories Command, after the "Search Filename (wildcards are OK) <ENTER> = none?" prompt when executing the [L]ocate Files Command, or after the "Enter the Text to Scan for <ENTER> = none?" prompt when executing the [Z]ippy Directory Scan Command. You will be asked to enter the date from when to start the search (month, day, and year). Next, you will be asked to indicate which file directories to search. For those files found dated on the search date and later, ATTIC will display the filename, the size of the file (bytes), the date it was uploaded onto ATTIC, and a brief description of the contents of the file. An example of how to use the [N]ew Files Command is presented in Exhibit 27.

There are a number of subcommands that can be used with the [N]ew Files Command to locate files by date, including:

#### Exhibit 27. Locating New Files by Date

(118 min. left) Main Board Command? N<ENTER>

Date as (mmddyy) from where to search <ENTER> = none? 090391 < ENTER>

Files: (1-2), (A)II, (U)ploads, <ENTER> = none? A<ENTER>

Scanning Directory 1

(ATTIC BBS Main Download Directory)

Scanning Directory 2

(Recent Uploads)

DATA1.BAT

361 09-03-91 New One to Try

Uploaded by: Bill Mason

Press <ENTER> to continue? <ENTER>

• (A)ll Files The (A)ll Files subcommand lets you scan all file directory listings.

• (D)ownload The (D)ownload subcommand downloads all new files found.

• (S)ince The (S)ince subcommand lets you scan for files that are new since your last

directory scan.

• (U)pload The (U)pload subcommand scans only the upload file directory listings.

• (NS) Non-Stop The (NS) Non-Stop subcommand displays the output in non-stop mode.

The subcommands can be combined with the [N]ew Files Command to tailor your search. For example, you can type N U 1 D S < ENTER > to scan for and download new files since your last scan in Directory 1.

Online help is available for the [N]ew Files Command. By typing H N < ENTER > after the "Main Board Command?" prompt, you will get the (N)ew Files by Date - Function Help file (see Appendix C for online help files).

# How Do You Flag a File for Download?

You can use the [FLAG] for Download Command to mark a file or group of files for later download. If you know the name of the file or files you wish to flag for download, you can type FLAG < ENTER > after the "Main Board Command?" prompt. You can also flag files while in the [F]ile Directories Command or the [L]ocate Files Command by typing F < ENTER > after the "(H)elp, (V)iew, (F)lag, **<ENTER>** = More?" prompt. You will be asked to enter the filename to flag. ATTIC will check the file transfer request and give you the filename, file size, and the approximate time required to download the file (see Exhibit 26). If you do not know the name of the file(s) you wish to download, you can use the [L]ocate Files Command described above.

You can combine the filenames that you wish to flag for download on the same line as the [FLAG] Command, or you can use wildcards to flag several files for download. For example, you can type FI.AG filename1 filename2 filename3 < ENTER > to flag these three files for download. You could also type FLAG file\*.txt < ENTER > to flag all filenames ending with ".txt" for download.

Online help is available for the [FLAG] for Download Command. By typing HFLAG < ENTER > after the "Main Board Command?" prompt, or by typing H < ENTER > after the "Enter filename to flag for download < ENTER > = none?" prompt, you will get the (FLAG) File for Download - Function Help file (see Appendix C for online help files).

#### How Do You Download a File?

Before typing the [D]ownload a File Command, be sure you either know the name of the file or have flagged the file for download as described above. If you want to download more than one file, see "How Do You Download a Batch of Files?" below. To download a single file, type D<ENTER> after the "Main Board Command?" prompt. This command prompts you to enter the name of the file (DOS wildcards are permitted) that you wish to download. (If you have flagged a file for download, you will not be prompted for a filename.) After you have entered the filename, ATTIC will check to be sure that the file is available and will display the information presented in Exhibit 28.

#### Exhibit 28. Downloading a File

(119 min. left) Main Board Command? D<ENTER>

Enter the filename to Download <ENTER> = none? SOILEAD2.ZIP<ENTER>

Checking file transfer request. Please wait ...

Download Time: 1.3 minutes (approximate)

Download Size: 15971 bytes (16 blocks)

Total Will Be: 15971 bytes

Protocol Type: Xmodem (Checksum--Use with CrossTalk)

File Selected: SOILEAD2.ZIP

You must now execute the command in your communications software to upload or download (depending on which you are doing). Check your communications software for the appropriate command. In CrossTalk, hit the <ESC> key to get the command line and then type "XX <FILENAME.EXT>" for uploading and "RX <FILENAME.EXT>" for downloading. In Procomm, press the <PgUp> key for uploading and the <PgDn> key for downloading. Type <CTRL>X to cancel the file transfer.

Transfer Ended. (Files: 1 Bytes: 15971 Avg. cps: 12)

Press < ENTER > to continue? < ENTER >

After "Type < CTRL>X to cancel the file transfer" appears on the screen, you will have about 60 seconds to give your communications software the command to receive the files from ATTIC. The command is usually called RECEIVE. After invoking the proper communications software command, ATTIC will indicate that the files are being transferred and inform you when the transfer is completed

(see Exhibit 28). The transfer protocol and the filename can be combined on the same line as the [D]ownload a File Command to save several steps in the download process. For example, you can type D TEST\*.\* X<ENTER> to download any file starting with TEST using Xmodem transfer protocol.

Online help is available for downloading files. By typing H D < ENTER > after the "Main Board Command?" prompt, or by typing H < ENTER > after the "Enter the filename to Download < ENTER > = none? prompt, you will get the (D)ownload a File - Function Help file (see Appendix C for online help files).

#### How Do You Download a Batch of Files?

Before using the [DB] Download Batch Command to download a batch of files, be sure you either know the names of the files or have flagged the files for download (flagging was described above). When you are ready to download a batch of files, type DB < ENTER > at the "Main Board Command?" prompt. This command prompts you for the name of the first file (DOS wildcards are permitted) and continues to prompt you for the name of each additional file. (If you have flagged files for download, you will not be prompted for filenames.) ATTIC will check to be sure that the files you entered are available and will display the information presented in Exhibit 29.

After "Type < CTRL>X to cancel the file transfer" appears on the screen, you will have approximately 60 seconds to give your communications software the command to receive the files from ATTIC. The command is usually RECEIVE. Be aware that you cannot use the [DB] Command unless your communications software supports the Ymodem or Zmodem file transfer protocols as these are the only ones that will work with <u>batch</u> downloading. After invoking the proper communications command, ATTIC will indicate that the files are being

Experienced users can streamline the batch download process by entering the filenames to be downloaded and the transfer protocol on the same line as the [D]ownload a File or [DB] Download Batch Commands --

D TEST1 TEST2 Y

transferred and inform you when transfer is completed (see Exhibit 29).

Online help is available for downloading a batch of files. By typing HDB<ENTER> after the "Main Board Command?" prompt, or by typing H<ENTER> after the "(1) Enter the Filename to Download <ENTER> = none? prompt, you will get the (D)ownload a File - Function Help file (see Appendix C for online help files).

## How Do You Upload a File?

To upload a single file, use the [U]pload a File Command from the Main Menu. To upload several files, use the [UB] Upload Batch Command which is under "How Do You Upload a Batch of Files?" below. When you are ready to upload a file, type U < ENTER > after the "Main Board Command?" prompt. You will then be asked to enter the name of the file you wish to upload. Do not forget to include the A: or B: before the filename if you are uploading from a floppy disk on an IBM compatible PC. After you enter the filename, ATTIC will check to make sure that the transfer request is valid, and will display the information presented in Exhibit 30.

(119 min, left) Main Board Command? DB < ENTER >

(1) Enter the filename to Download <ENTER> = none? SOILEAD2.ZIP < ENTER> Checking file transfer request. Please wait ...

(1) SOILEAD2.ZIP

15971 bytes

1.3 minutes (approximate)

(2) Enter the filename to Download <ENTER> = none? DATA1.BAT < ENTER> Checking file transfer request. Please wait ...

(2) DATA1.BAT

361 bytes

0.1 minutes (approximate)

(3) Enter the filename to Download <ENTER> = none? <ENTER>

Batch Download Time:

1.4 minutes (approximate)

Batch Download Size:

16332 bytes (17 blocks)

**Batch Protocol Type:** 

Zmodem (Batch U/L and D/L)

(Ready to Send in Batch Mode)

(G)oodbye after Batch, (A)bort or (E)dit Batch, <ENTER> = continue? <ENTER>

You must now execute the command in your communications software to upload or download (depending on which you are doing). Check your communications software for the appropriate command. In CrossTalk, hit the <ESC> key to get the command line and then type "XX <FILENAME.EXT>" for uploading and "RX <FILENAME.EXT>" for downloading. In Procomm, press the <PgUp> key for uploading and the <PgDn> key for downloading. Type <CTRL>X to cancel the file transfer.

Batch Transfer Ended. (Files: 2 Bytes: 16332 Avg. cps: 12)

Press <ENTER> to continue? <ENTER>

At the "( )?" prompt, you must type in a brief file description that will go in the directory of files to inform other users of the purpose of the file. If you want the file to be visible only to the SYSOP, type a slash (/) as the first character of the file description. After you have entered the description, ATTIC will indicate free disk space on the upload drive, the upload status, and the protocol type; and you will be prompted to execute the command in your communications software to upload a file (see Exhibit 30).

You will then have about 60 seconds to give your communications software the command to send or transmit the file from your computer to ATTIC. The command is usually called SEND or TRANSMIT (in CrossTalk, the command to send an Xmodem transfer is "XX" followed by the filename; in Smartcom on the Macintosh, click on the "Send" icon). If you do not know the name of the command in the program you are using, check your manual. After invoking the proper communications software command, ATTIC will indicate that the file is being transferred and inform you when transfer is completed (see Exhibit 30).

(118 min. left) Main Board Command? U<ENTER>

(1) Enter the Filename to Upload <ENTER> = none? **METAL.TMT** < **ENTER**> Checking file transfer request. Please wait ...

Before beginning, enter a description of (METAL.TMT)

Begin description with (/) to make upload "Private".

Enter your text. <ENTER> alone to end. (45 chars/line, 8 lines maximum)

(TREATMENT OF METALS < ENTER > )?
( )? < ENTER >

Upload Drive:

103591936 Bytes Free Disk Space

**Upload Status:** 

Posted Immediately

Protocol Type:

Xmodem-CRC

You must now execute the command in your communications software to upload or download (depending on which you are doing). Check your communications software for the appropriate command. In CrossTalk, hit the <ESC> key to get the command line and then type "XX <FILENAME.EXT>" for downloading. In Procomm, press the <PgUp> key for uploading and the <PgDn> key for downloading.

Type <CTRL>X to cancel the file transfer.

Transfer Successfully Completed. (Avg. cps: 174)

Thanks for the file(s), John! Verifying METAL.TMT...passed.

Press <ENTER> to continue? <ENTER>

You can specify the filename to be uploaded and the transfer protocol on the same command line as the [U]pload a File Command. For example, you can type U TEST1 X < ENTER > to upload TEST1 using the Xmodem transfer protocol.

Online help is available for uploading a file. By typing H U < ENTER > after the "Main Board Command?" prompt, or by typing H < ENTER > after the "Enter the Filename to Upload < ENTER > = none?" prompt, you will get the (U)pload a File - Function Help file (see Appendix C for online help files).

## **How Do You Upload a Batch of Files?**

The [UB] Upload Batch Command assumes that you will be uploading more than one file and prompts you to enter each file name. To begin batch upload, type UB < ENTER > at the "Main Board Command?" prompt. ATTIC will ask you to enter a filename and a brief description for each file you are uploading. After you have entered the filenames and descriptions, ATTIC will check your transfer request and display the space available on the upload drive, the upload status, and the protocol type; and you will be prompted to execute the command in your communications software to upload a file (see Exhibit 31).

You will then have about 60 seconds to give your communications software the command to send or transmit the file from your computer to ATTIC. As with batch downloading, you must remember that you cannot use the [UB] Command unless your communications software supports the Ymodem or Zmodem file transfer protocols as these are the only ones that will work with batch invoking the proper uploading. After communications software command, ATTIC will indicate that the file is being transferred and inform you when the transfer is completed. An example of how to upload a batch of files is presented in Exhibit 31.

Experienced users can streamline the batch upload process by entering the filenames to be uploaded and the transfer protocol on the same line as the [U]pload a File or [UB] Upload Batch Commands—

#### U TEST1 TEST2 Y

This command uploads both TEST1 and TEST2 using Ymodem/Batch transfer protocol.

You can combine the filenames you wish to upload, the transfer protocol, and the [U]pload a File Command on the same command line. For example, you can type U TEST1 TEST2 TEST3 Y<ENTER> to upload TEST1, TEST2, and TEST3 using Ymodem/Batch transfer protocol.

Online help is available for uploading a batch of files. By typing HUB<ENTER> after the "Main Board Command?" prompt, or by typing H<ENTER> after the "(1) Enter the Filename to Upload <ENTER> = none? prompt, you will get the (U)pload a File - Function Help file (see Appendix C for online help files).

(118 min. left) Main Board Command? UB < ENTER >

(1) Enter the Filename to Upload <ENTER> = none? METAL.TMT < ENTER> Checking file transfer request. Please wait ...

Before beginning, enter a description of (METAL.TMT)
Begin description with (/) to make upload "Private".
Enter your text. <ENTER> alone to end. (45 chars/line, 8 lines maximum)
(TREATMENT OF METALS < ENTER > )?
( )? <ENTER>

(2) Enter the Filename to Upload <ENTER> = none? PCBSOIL.TMT < ENTER> Checking file transfer request. Please wait ...

Before beginning, enter a description of (PCBSOIL.TMT)
Begin description with (/) to make upload "Private".
Enter your text. <ENTER> alone to end. (45 chars/line, 8 lines maximum)
(TREATMENT OF PCB-CONTAMINATED SOIL <ENTER>)?
( )? <ENTER>

(3) Enter the Filename to Upload <ENTER> = none? <ENTER>

(G)oodbye after Batch, (A)bort Batch, <ENTER> = continue? <ENTER>

Upload Drive:

103870464 Bytes Free Disk Space

**Upload Status:** 

Posted Immediately

Protocol Type:

Ymodem (Batch U/L and D/L)

You must now execute the command in your communications software to upload or download (depending on which you are doing). Check your communications software for the appropriate command. In CrossTalk, hit the <ESC> key to get the command line and then type "XX <FILENAME.EXT>" for uploading and "RX <FILENAME.EXT>" for downloading. In Procomm, press the <PgUp> key for uploading and the <PgDn> key for downloading.

Type <CTRL>X to cancel the file transfer.

Batch Transfer Ended. (Files: 2 Bytes: 15621 Avg. cps: 189)

Thanks for the file(s), John! Verifying METAL.TMT passed. Verifying PCBSOIL.TMT passed.

Press <ENTER> to continue? <ENTER>

Note: When specifying the files to be uploaded for the communications software in Exhibit 31, the files are identified by using \*.TMT.

# 5. Using the ATTIC Database

## How Do You Access the ATTIC Database?

Once you have logged onto the ATTIC Bulletin Board, as described in Chapter 3, you can access the ATTIC Database (or any other database or "door" on the ATTIC system) by using the [OPEN] a Database Command on the Main Menu of the Bulletin Board. By typing OPEN < ENTER > after the "Main Board Command?" prompt, you will get a menu of the databases or "doors" available on ATTIC. The ATTIC Database is Menu Option 1, so you can access it by typing 1<ENTER> after "Enter the DOOR # to Open

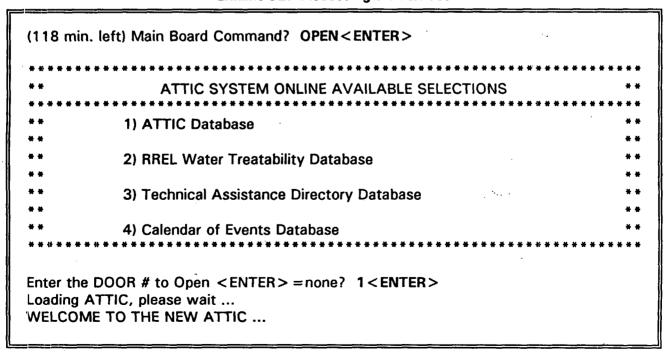
For experienced users ...

Only the first two letters of multi-letter commands are needed. Thus, you may save time by typing "OP" instead of "OPEN" to open a database. To also save time, you can type the number of the database you wish to open on the same line ...

OP 1 < ENTER >

<ENTER> = none?" prompt. The screen will indicate that the ATTIC Database is being loaded, and within a few seconds you will see "WELCOME TO THE NEW ATTIC ...". The ATTIC Main Menu will then appear on the screen. Using the [OPEN] Command to access the ATTIC Database is illustrated in Exhibit 32.

Exhibit 32. Accessing a Database



#### The ATTIC Main Menu

There are six options available on the ATTIC Database MAIN MENU (see Exhibit 33). If you select Menu Option 1, the SEARCH ATTIC DATABASE MENU will be displayed. This option allows you to execute a search of the ATTIC Database. If Menu Option 2 is selected the DOWNLOAD FILES MENU will be displayed on the screen. The download files option allows you to download search reports. Selecting Menu Option 3 will display the ATTIC INFORMATION MENU. This option

When you open a database, you actually leave the software that runs the ATTIC Bulletin Board (PCBoard), so you will not see the same command prompts or menus, and the commands you use on the Bulletin Board are not necessarily the same in the database.

provides you a description of the ATTIC system and the ATTIC Database, a number to contact if system operator help is required as well as other contacts, and the version of the database. If this is your first time on the ATTIC Database you may want to select Menu Option 3 to find out a little more about the database, before you execute a search.

Menu Option H displays the ATTIC online help system for the MAIN MENU. Menu Option X is used to toggle the expert mode on and off. Once you have mastered ATTIC, you may want to turn on the expert mode to speed up system access. Menu Option Q will quit or exit the ATTIC Database and return you to the Main Menu of the ATTIC Bulletin Board (PCBoard). ATTIC will not "remember" your location in the program or what searches were running after the Q Command is used.

#### Exhibit 33. The ATTIC Main Menu

#### -----MAIN MENU-----

- 1) SEARCH ATTIC DATABASE
- 2) DOWNLOAD FILES
- 3) ATTIC INFORMATION
- H) HELP
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

EXPERT MODE IS OFF
Please Select a Menu Option >

# How Do You Search the ATTIC Database?

The ATTIC Database supports both keyword and free-text searches. Keywords, which capture the basic content of the source document, are assigned to the abstracts in the ATTIC Database, and each abstract is searchable by these keywords. In general, keyword searches are faster and more efficient than free-text searches, but free-text searches give you tremendous flexibility in searching for specific phrases or words in the database. Free-text searches are used for the titles of the abstracts, the name and locations of sites, the history of the sites, and the abstract summaries. (DOS wildcards cannot be used in

keyword or free-text searches.) You can also perform quick searches of the ATTIC Control Number (a unique number assigned to each abstract in the database), and the region and/or state where the site is located. Each of these search strategies is described in the following sections.

To search the ATTIC Database you create lists of "information" that tell the ATTIC system what you are looking for. Each list can contain up to 10 keywords or free-text phrases depending on the type of search you select. You can create up to 10 of these lists, and each new list level, called the search level,

operates on the previous list or lists. As you create new lists, ATTIC moves you to the next search level. The current SEARCH LEVEL and the number of RECORDS SELECTED are displayed at the bottom of every menu once the first search list has been entered. ATTIC also allows you to expand or narrow your search by combining the lists using "OR", "AND", or "NOT" operations. "OR" can be used to expand the RECORDS SELECTED to all records containing any of the keywords or phrases from the combined lists. "AND" can be used to narrow the RECORDS SELECTED to only those records that match both the current list and the previous list (the previous list is the RECORDS SELECTED as a result of all previous search levels). "NOT" can be used to narrow the RECORDS SELECTED by eliminating those records contained in the current list that were also in the previous list. Expanding and narrowing searches is described later in this chapter (see How Do You Expand or Narrow Your Search? for information on using "OR", "AND", and "NOT" operations).

There are seven search commands available on the SEARCH ATTIC DATABASE MENU, which is presented These commands in Exhibit 34. correspond to Menu Options 1 through Menu Option 1--KEYWORD SEARCH--is the only search command that executes a keyword search of the ATTIC Database. Menu Options 2 and 3 are indexed searches, so like keyword searches, they can be executed quickly. Menu Options 4, 5, 6, and 7 are free-text searches, so they generally take anywhere from one to five minutes to execute depending on system usage. When a free-text search is performed, ATTIC will automatically begin multitasking I/O (input/output), which is a technical way of saying that the search will run "transparently" to you.

Once you execute a free-text search, the Control Numbers and titles of the first 20 records found (if the total number of

Exhibit 34. Search ATTIC Database Menu

#### --SEARCH ATTIC DATABASE MENU-----

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC DATABASE

EXPERT MODE IS OFF
Please Select a Menu Option >

matching records exceeds 20) appear on the screen. You may view any of these 20 records while the search is still proceeding. If you choose to view a record, ATTIC will notify you that you are in VIEW MODE. You will be notified when the search is completed, even if you are viewing one of the records. The search can be canceled at any time by hitting <ENTER>, but only those records found up to that point will be selected for that search level. ATTIC signals you when the search is over by displaying the message "SEARCH COMPLETED...". This message will display regardless of where you are in the system, so that you may execute additional searches if desired.

In addition to the seven search commands on the SEARCH ATTIC DATABASE MENU, there are another six commands available for you to use from this menu (see Exhibit 34). Menu Option H displays the ATTIC online help system for the SEARCH ATTIC DATABASE MENU. Menu Option V displays the past lists and operations that you have performed on those lists during your search (see Exhibit 35).

#### Exhibit 35. Using the View Current Search Criteria Command

#### --SEARCH ATTIC DATABASE MENU-----

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 24
CURRENT SEARCH LEVEL: 2

SEARCH OPERATION: .AND. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

**EXPERT MODE IS OFF** 

Please Select a Menu Option > V<ENTER>

ALL RECORDS SELECTED FOR:

THE LIST:

LEAD

**HEAVY METALS** 

**METALS** 

.AND.

THE LIST:

SOIL

**SOIL WASHING** 

.OR.

Press <ENTER> to Continue ...

The past lists from search level 1 up to the current search level are displayed one at a time, showing the keywords, ATTIC Control Numbers, or phrases entered, and any data operations ("OR", "AND", or "NOT") performed on the lists.

Menu Option P will return you to the previous menu. If you have not started a search yet, this command will return you to the MAIN MENU. If you are in an active search, this command will "step" you back one search level to the DATA OPERATIONS MENU of the previous search level. Menu Option M will return you immediately to the MAIN MENU and it will cancel the entire search if you have started one.

Once back at the MAIN MENU, you can proceed just as if you had just opened the ATTIC Database. Menu Option X is used to toggle the expert mode on and off. Once you have mastered ATTIC, you may want to turn on the expert mode to speed up system access. Menu Option Q will quit or exit the ATTIC Database and return you to the Main Menu of the ATTIC Bulletin Board (PCBoard). Use the Q Command carefully because ATTIC will not "remember" your location in the program or what searches were running after it is used.

To execute a search of the ATTIC Database, type 1 < ENTER > after the "Please Select a Menu Option" prompt under the MAIN MENU. The SEARCH ATTIC DATABASE MENU will appear on the screen. From this menu you can execute any one of the seven searches described below.

#### **Keyword Search**

A keyword search allows you to do a quick search of the abstracts in the ATTIC Database using keywords that are contained in the keyword thesaurus. Since keywords capture the key points in each abstract, most of the information you are searching for can be accessed through a keyword search. It is recommended that you use a keyword search

When selecting the keyword search option, ATTIC will suggest typing L<ENTER> for a list of the available keywords.

whenever possible to save time in finding the information you are looking for. You can execute a keyword search by typing 1<ENTER> after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU. You will then be asked to enter the first keyword. In selecting the keywords to use for your search you have two options: (1) you can guess whether or not a word that you wish to use is in the keyword thesaurus or (2) you can type L<ENTER> to get a list of all available keywords.

If you choose to guess at the keyword(s) and you select a word that is not in the keyword thesaurus, ATTIC will indicate that the word is not a keyword and no matching records will be found. If you wish to check whether the word you want to search for is in the keyword thesaurus, type L<ENTER> after the "ENTER KEYWORD #1 OR (L)<ENTER> FOR A LIST:" prompt. The screen will display a list of keywords in alphabetical order. If you want to quickly go to the page of the keyword thesaurus that should contain your selected word, use the (G) Command for "GOTO" in the menu at the bottom of the screen. After typing in G<ENTER> at the "(ENTER) TO EXIT, (N) NEXT PAGE, (P) PREVIOUS PAGE, (G) GOTO, OR (#1-40):" prompt, you will be asked to enter the partial word to find. The page of the keyword thesaurus that should have that word on it will be displayed, and you can quickly select the number of that word (if it is a keyword) or a related word that is in the keyword thesaurus. An illustration of how to use the keyword thesaurus in a keyword search is presented in Exhibit 36.

After you have entered the first keyword, you will be prompted to enter additional keywords. Once you have entered all of the keywords you wish to use for the first level of your search (up to 10 keywords for each search level), hit <ENTER> after the "IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #X OR (L) <ENTER> FOR A LIST:" prompt. Within seconds ATTIC will indicate the number of records that matched each of the selected keywords, as well as the total number of records found with all duplicates removed. The message "SELECTING RECORDS, PLEASE WAIT ..." will be displayed. Then, the DATA

#### ------SEARCH ATTIC DATABASE MENU------1) KEYWORD SEARCH 2) ATTIC CONTROL NUMBER SEARCH 3) REGION/STATE SEARCH 4) TITLE SEARCH 5) SITE NAME/LOCATION SEARCH **6) SITE HISTORY SEARCH** 7) SUMMARY SEARCH H) HELP V) VIEW CURRENT SEARCH CRITERIA M) RETURN TO MAIN MENU P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC **EXPERT MODE IS OFF** Please Select Menu Option > 1 < ENTER > YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS L<ENTER> TO SEE A LIST OF THE **AVAILABLE KEYWORDS. ENTER THE KEYWORDS TO SEARCH FOR:** IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU. ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: L < ENTER > (2-CHLOROPROPYL)PHOSPHATE 1) 1,1,1-DCA 1,1,1-TCA 3) 4) 1,1,1-TRICHLOROETHANE 1,1,1-TRICHLOROETHENE 5) 6) 1,1,1-TRICHLOROETHYLENE 7) 1,1,2,2-TETRACHLOROETHANE 8) 1.1.2-TRICHLOROETHANE 9) 1,1-DCA 10) 1,1-DCE 39) **ABIOTIC** 40) **ABSORPTION** (ENTER) TO EXIT, (N) NEXT PAGE, (P) PREVIOUS PAGE, (G) GOTO, OR (#1-40): G<ENTER> ENTER THE PARTIAL KEYWORD NAME TO FIND: LEAD < ENTER > LEAD : 2) LEAD BATTERY RECLAMATION **LEAD RECOVERY LEAD SOLDER** 3) 4) 5) LEAK DETECTION 6) LIME 7) **LIME ACTIVATED FILTRATION** 8) **LIMESTONE** 39) LIQUEFIED GAS 40) LIQUID (ENTER) TO EXIT, (N) NEXT PAGE, (P) PREVIOUS PAGE, (G) GOTO, OR (#1-40): 1 < ENTER > KEYWORD 1 = LEADIF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: L < ENTER >

Continued on Next Page

# Exhibit 36. Using the Keyword Thesaurus (Continued)

	(2-CHLOROPROPYL)PHOSPHATE 1,1,1-TCA 1,1,1-TRICHLOROETHENE 1,1,2,2-TETRACHLOROETHANE 1,1-DCA	4) 6) 8)	1,1,1-DCA 1,1,1-TRICHLOROETHANE 1,1,1-TRICHLOROETHYLENE 1,1,2-TRICHLOROETHANE 1,1-DCE
39)	ABIOTIC	40)	ABSORPTION
	R) TO EXIT, (N) NEXT PAGE, (P) PREVIOUS P THE PARTIAL KEYWORD NAME TO FIND: I		
1)	HEAVY METAL	2)	HEAVY METALS
	HEPTACHLOR	4)	
	HERBICIDE	6)	HETEROCYCLIC NITROGEN
	HEXACHLOROBENZENE	8)	
	(12.0 (C.120116521122112		
39)	HOT BRINE INJECTION	40)	HOT CYCLONE
KEYW IF YO' ENTEI IF YO' ENTEI LEAD: HEAV	R) TO EXIT, (N) NEXT PAGE, (P) PREVIOUS PORD 2 = HEAVY METAL  J PRESS <enter> ALONE AT THIS PROMP  R KEYWORD #3 OR (L) &lt; ENTER &gt; FOR A LIST  J PRESS &lt; ENTER &gt; ALONE AT THIS PROMP  R KEYWORD #4 OR (L) &lt; ENTER &gt; FOR A LIST  176 RECORDS MATCHED THE  Y METAL: 2 RECORDS MATCHED THE K  Y METALS: 346 RECORDS MATCHED THE  ECORDS FOUND FOR THIS LIST (DUPLICATE</enter>	T YOU W T: HEAVY T YOU W T: <enti e="" keyword="" keyword<="" td=""><td>ILL START THE SEARCH.  / METALS &lt; ENTER &gt; ILL START THE SEARCH.  ER &gt; RD</td></enti>	ILL START THE SEARCH.  / METALS < ENTER > ILL START THE SEARCH.  ER > RD
SELEC	TING RECORDS, PLEASE WAIT		

OPERATIONS MENU will appear on the screen (see Exhibit 37). At the bottom of the menu will appear the total number of records you have selected (RECORDS SELECTED), the CURRENT SEARCH LEVEL, and the SEARCH OPERATION. For each list of keywords, ATTIC automatically searches for all records containing any of the keywords (referred to as an "OR" search). There are three commands available on the DATA OPERATIONS MENU that you can use to expand or narrow your search. By selecting Menu Option 4, EXPAND SEARCH USING OR, you can expand your search by selecting all records with the keywords from either the first list or the second list. Menu Options 5 and 6 will narrow your search using "AND" or "NOT" (see How Do You Expand or Narrow Your Search? for information on using the "OR", "AND" and "NOT" operations). If you do not want to expand or narrow your search, you can view, print, or download the search results by using Menu Options 1, 2, or 3, respectively, on the DATA OPERATIONS MENU. Each of these Menu Options are described under How Do You Retrieve Your Search Results? later in this chapter.

From the DATA OPERATIONS MENU, you can also view your current search criteria (see Exhibit 35), return to the MAIN MENU, return to the previous menu, turn the expert mode on or off, or exit the ATTIC Database.

#### -DATA OPERATIONS MENU-----

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 428
CURRENT SEARCH LEVEL: 1

SEARCH OPERATION: NO OPERATION SELECTED YET. Hint: Use 4, 5, or 6 to expand or narrow the search.

EXPERT MODE IS OFF

Please Select a Menu Option >

# **ATTIC Control Number Search**

You can use Menu Option 2 of the **SEARCH ATTIC DATABASE MENU to** conduct a search of the ATTIC Control Numbers. This type of search can be useful if you have hundreds of records selected from previous search levels and vou would like to generate a report on only a few choice abstracts. For example, you could limit your selection from 250 records to 10 by entering 10 ATTIC Control Numbers for those abstracts that look the most interesting using the "AND" operation. This type of search is also useful for retrieving abstracts for which you know the ATTIC Control Number, or to retrieve a group of abstracts with a specific Control Number prefix. example, if you wish to retrieve all of the abstracts pertaining to EPA's Superfund Innovative Technology Evaluation (SITE) program, you can search for the prefix

"SP". The ATTIC Control Number prefixes that you may wish to use for this type of search are provided in Exhibit 38.

execute an ATTIC Control Number search, you type 2<ENTER> after the "Please Select a Menu Option" prompt at the bottom of the SEARCH ATTIC DATABASE MENU. Then you enter the ATTIC Control Numbers (one at a time following the appro- priate prompt) or the prefix you wish to retrieve. You can expand or narrow your search if you wish (see How Do You Expand or Narrow Your Search? for information on using "OR",

**Exhibit 38. ATTIC Control Number Prefixes** 

CA	State of California
EH	EPA Headquarters
IT.	ORD's Innovative Technologies Program
MI	
	Management Information
NT	NATO and International Reports/Studies
RA	Removal Action
RD	Records of Decision
RM	Remedial Materials
SP .	ORD's Superfund Innovative Technology Evaluation (SITE) Program
TS	Treatability Studies
US	U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) and DOD Reports
VS	Vendor Information System Innovative Treatment Technologies Database

"AND", or "NOT" operations), or you can view, print, or download the results of your search (see *How Do You Retrieve Your Results?* for information on viewing, printing, and downloading results). A sample ATTIC Control Number search is presented in Exhibit 39.

#### **Exhibit 39. ATTIC Control Number Search**

# 1) KEYWORD SEARCH 2) ATTIC CONTROL NUMBER SEARCH 3) REGION/STATE SEARCH 4) TITLE SEARCH 5) SITE NAME/LOCATION SEARCH

- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU

6) SITE HISTORY SEARCH 7) SUMMARY SEARCH

- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

#### **EXPERT MODE IS OFF**

Please Select Menu Option > 2<ENTER>

YOU ARE ABOUT TO DO A CONTROL NUMBER SEARCH. THIS IS A FAST SEARCH FOR INDIVIDUAL ATTIC CONTROL NUMBERS, OR A GROUP OF CONTROL NUMBERS BY TYPE. TO RETRIEVE A GROUP OF CONTROL NUMBERS USE THE FIRST TWO LETTERS OF THE ABSTRACT TYPE. EXAMPLE: USE "SP" TO RETRIEVE SITE PROGRAM REPORTS.

ENTER THE ATTIC CONTROL NUMBER TO SEARCH FOR:

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER ATTIC CONTROL NUMBER #1: SP<ENTER>

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER ATTIC CONTROL NUMBER #2: <ENTER>

97 RECORDS FOUND FOR SP. 97 RECORDS FOUND FOR THIS LIST. SELECTING RECORDS, PLEASE WAIT ...

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 97
CURRENT SEARCH LEVEL: 1

SEARCH OPERATION: NO OPERATION SELECTED YET.

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Continued on Next Page

# Exhibit 39. ATTIC Control Number Search (Continued)

<u>#</u>	<u>CONTROL</u>	TITLE
1	SP00001	Pyretron BurnerAmerican Combustion Technologies
2	SP00002	Biological Degradation ProcessDetox Industries, Sugarland Texas
3	SP00003	Hazcon Solidification/Stabilization Process
4	SP00004	In Situ Stabilization/Solidification ProcessInternational Waste
5	SP00005	Circulating Fluidizing Bed CombustorOgden Environmental Service
6	SP00006	Basic Extraction Sludge Technology (B.E.S.T.)Resources Conserva
7	SP00007	Infrared Thermal Destruction ProcessHaztech/Shirco (Peak Oil Si
8	SP00008	Infrared Thermal Destruction ProcessShirco (Rose Township Site)
•		
97	SP00097	Lime Stabilization ProcessSeparation & Recovery Systems, Inc.
GE 5	OF 5)	
TER)	TO EXIT, (N) N	EXT PG, (P) PREVIOUS PG, (G) GOTO PG, OR (#1-20) TO VIEW:

#### Region/State Search

You can use a Region/State search to retrieve abstracts that pertain to sites in a particular region or state. To conduct a Region/State search, type 3<ENTER> after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU. You will then be prompted to enter the region/state to search for. To search by both region and state, you enter the EPA region number (zero-filled to two digits) followed by (with no space in between) the two-letter state abbreviation. For example, if you type 03MD<ENTER>, you will retrieve all records for sites in the state of Maryland in Region 3. (The state abbreviations are the standard abbreviations accepted by the U.S. postal service.) If you type 03<ENTER>, you will retrieve all records for sites in Region 3, not just those in Maryland). You can expand or narrow your search using the "OR", "AND", or "NOT" operations. You can also view, print, or download your search results (see How Do You Retrieve Your Search Results? for information on viewing, printing, and downloading results). A sample region/state search is presented in Exhibit 40.

#### Title Search

You can use a title search to retrieve abstracts that contain a particular word or phrase in their titles. This type of search can also be helpful in locating an abstract of a report for which you know the title. A title search is a free-text search so it usually takes considerably longer to run than a keyword, ATTIC Control Number, or Region/State search. To execute a title search, you type 4<ENTER> after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU. ATTIC will then inform you that you are about to do a free-text search that could take from 1 to 5 minutes to complete. (You can abort the search by pressing the <ENTER> key while the search is proceeding. Only the records found up to that point will be included in the number of records found for the search.)

Next, you will be asked if you want the search to be case sensitive. If you answer yes, the text you enter will be compared by exact upper and lower case matching. An example of where case sensitivity could be useful is when you are searching for abstracts on the SITE program—you would not want to retrieve

### -----SEARCH ATTIC DATABASE MENU---

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH.
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

### **EXPERT MODE IS OFF**

Please Select Menu Option > 3<ENTER>

YOU ARE ABOUT TO DO A REGION/STATE SEARCH. THIS IS A FAST SEARCH FOR INFORMATION BY REGION, BY STATE, OR BOTH. SOME EXAMPLES FOLLOW: ENTERING 03MD, or MD will retrieve all records for the State of Maryland in Region 3. 03 will retrieve all records for Region 3, including those for Maryland.

ENTER THE REGION(S)/STATE(S) TO SEARCH FOR:

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER REGION/STATE #1: 03VA < ENTER >

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER REGION/STATE #2: 03MD < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER REGION/STATE #3: <ENTER>

16 RECORDS FOUND FOR REGION/STATE 03VA. 9 RECORDS FOUND FOR REGION/STATE 03MD.

25 RECORDS FOUND FOR THIS LIST

SELECTING RECORDS, PLEASE WAIT ...

every record with the word site in the title. You will then be prompted to enter the text or the partial text to search the titles for. You can enter up to 10 texts or partial texts in the first level. (You can abort the search by hitting the <ENTER> key while the search is proceeding. Only the records found to that point are included in the number of records found for the search.) Once the search is completed and the number of records identified, you can expand or narrow the search using "OR", "AND", or "NOT" operations; or you can view, print, or download your search results (see *How Do You Retrieve Your Search Results?* for information on viewing, printing, and downloading search results). Exhibit 41 demonstrates a sample title search.

### Site Name/Location Search

You can use a site name/location search to retrieve all abstracts pertaining to a particular site or sites, or those sites located in a specific city, county, or township. This field in the ATTIC Database includes all of the commonly known names of the site along with the name on the National Priority List (NPL),

### ------SEARCH ATTIC DATABASE MENU--------SEARCH

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

### **EXPERT MODE IS OFF**

Please Select Menu Option > 4<ENTER>

YOU ARE ABOUT TO DO A FREE-TEXT SEARCH. DEPENDING ON SYSTEM USAGE THIS SEARCH COULD TAKE FROM 1 TO 5 MINUTES TO COMPLETE. YOU CAN ABORT THE SEARCH BY PRESSING THE <ENTER > KEY WHILE THE SEARCH IS PROCEEDING. ONLY THE RECORDS FOUND TO THAT POINT ARE INCLUDED IN THE NUMBER OF RECORDS FOUND FOR THE SEARCH.

IF YOU ANSWER YES AT THE NEXT PROMPT THE TEXT THAT YOU ENTER WILL BE COMPARED BY EXACT UPPER/LOWER CASE MATCHING. EXAMPLE: THE UPPER CASE TEXT (PA) AND THE LOWER CASE TEXT (pa) WOULD RETURN DIFFERENT RESULTS.

DO YOU WANT THE SEARCH TO BE CASE SENSITIVE? N < ENTER >

ENTER THE TEXT OR PARTIAL TEXT TO SEARCH FOR:

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER SEARCH TEXT #1: HAZCON SOLIDIFICATION/STABILIZATION < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #2: <ENTER>

VIEW MODE ONLY! THIS IS ONLY A TEMPORARY LIST FOR THE SEARCH IN PROGRESS ... (ENTER) CANCEL SEARCH, (N) NEXT PAGE, (P) PREVIOUS PAGE, OR (#1-20) TO VIEW:

# CONTROL

TITLE

1 SP00003

Hazcon Solidification/Stabilization Process

SEARCHING, PLEASE WAIT, OR <ENTER> TO CANCEL ... SEARCH COMPLETE, PRESS <ENTER> TO CONTINUE ...

1 RECORD FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ...

as well as the location of the site (city, county, or township, and the state). Site name/location searches are free-text searches so they are generally slower than keyword searches. You can execute a site name/location search by typing 5<ENTER> after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU.

Next, you will be asked if you want the search to be case sensitive. If you answer yes, the text that you enter to search for will be compared by exact upper and lower case matching. Then you will be prompted to enter the text or partial text to search for. You can enter the name of a site or the city, township, county, or state where the site is located. (You can abort the search by hitting the <ENTER> key while the search is proceeding. Only the records found to that point are included in the number of records found for the search.) You can enter up to 10 texts or partial texts for the first search level. Once the first search level is completed and the number of records found identified, you can expand or narrow your search by using the "OR", "AND", or "NOT" operations; or you can view, print, or download the results of your search (see *How Do You Retrieve Your Search Results?* for information on viewing, printing, and downloading search results). A sample site name/location search is provided in Exhibit 42.

### Site History Search

You can use a site history search to retrieve abstracts concerning similar sites. For example, you could search the site history field for all sites that are or were used for wood preserving, or all sites that are or were used for weapons manufacture and/or storage. This type of search can be useful if you are looking for information on the different treatment technologies that have been used to treat the wastes at these similar types of sites. A site history search is a free-text search so it is generally slower than a keyword search. You can execute a site history search by typing 6<ENTER> after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU.

Next, you will be asked if you want the search to be case sensitive. If you answer yes, the text that you enter to search for will be compared by exact upper and lower case matching. Then you will be prompted to enter the text or partial text to search for. (You can abort the search by hitting the <ENTER> key while the search is proceeding. Only the records found to that point are included in the number of records found for the search.) You can enter up to 10 texts or partial texts for the first search level. Once the first search level is completed and the number of records found identified, you can expand or narrow your search by using the "OR", "AND", or "NOT" operations; or you can view, print, or download the results of your search (see *How Do You Retrieve Your Search Results?* for information on viewing, printing, and downloading search results). Exhibit 43 illustrates a sample site history search.

## Summary Search

You can use a summary search to retrieve abstracts pertaining to treatment of a particular contaminant/waste or a specific technology. The summary field contains the abstract, as well as information on the technology, contaminants, concentration of contaminants, media, performance, cost, and the citation. While much of this information is keyworded, free-text search of the summary field provides you with the flexibility of searching for a very specific word or phrase that may pertain to only one treatment technology. For example, if you wanted to retrieve all abstracts that concern solidification/stabilization of PCBs and lead using Chloranan, you could search for the phrase "encapsulation of PCBs and lead using Chloranan".

To execute a summary search, type 7 < ENTER > after the "Please Select a Menu Option" prompt under the SEARCH ATTIC DATABASE MENU. You will then be asked if you want the search to be case sensitive. If you answer yes, the text that you enter to search for will be compared by exact upper and lower case matching. Then you will be prompted to enter the text or partial text to search for. (You

### 

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

#### **EXPERT MODE IS OFF**

Please Select Menu Option > 5 < ENTER >

YOU ARE ABOUT TO DO A FREE-TEXT SEARCH. DEPENDING ON SYSTEM USAGE THIS SEARCH COULD TAKE FROM 1 TO 5 MINUTES TO COMPLETE. YOU CAN ABORT THE SEARCH BY PRESSING THE <ENTER > KEY WHILE THE SEARCH IS PROCEEDING. ONLY THE RECORDS FOUND TO THAT POINT ARE INCLUDED IN THE NUMBER OF RECORDS FOUND FOR THE SEARCH.

IF YOU ANSWER YES AT THE NEXT PROMPT THE TEXT THAT YOU ENTER WILL BE COMPARED BY EXACT UPPER/LOWER CASE MATCHING. EXAMPLE: THE UPPER CASE TEXT (PA) AND THE LOWER CASE TEXT (pa) WOULD RETURN DIFFERENT RESULTS.

DO YOU WANT THE SEARCH TO BE CASE SENSITIVE? N < ENTER >

ENTER THE TEXT OR PARTIAL TEXT TO SEARCH FOR:

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER SEARCH TEXT #1: BARREL AND DRUM < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #2: LORENZ < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

**ENTER SEARCH TEXT #3: <ENTER>** 

VIEW MODE ONLY! THIS IS ONLY A TEMPORARY LIST FOR THE SEARCH IN PROGRESS ... (ENTER) CANCEL SEARCH, (N) NEXT PAGE, (P) PREVIOUS PAGE, OR (#1-20) TO VIEW:

# CONTROL

TITLE

RM00029 UV/Oxidation of Organic Contaminants in Ground, Waste, and Leacha

SEARCHING, PLEASE WAIT, OR <ENTER> TO CANCEL ...

SEARCH COMPLETE, PRESS < ENTER > TO CONTINUE ...

1 RECORD FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ...

### -----SEARCH ATTIC DATABASE MENU-------

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

### **EXPERT MODE IS OFF**

Please Select Menu Option > 6<ENTER>

YOU ARE ABOUT TO DO A FREE-TEXT SEARCH. DEPENDING ON SYSTEM USAGE THIS SEARCH COULD TAKE FROM 1 TO 5 MINUTES TO COMPLETE. YOU CAN ABORT THE SEARCH BY PRESSING THE <ENTER> KEY WHILE THE SEARCH IS PROCEEDING. ONLY THE RECORDS FOUND TO THAT POINT ARE INCLUDED IN THE NUMBER OF RECORDS FOUND FOR THE SEARCH.

IF YOU ANSWER YES AT THE NEXT PROMPT THE TEXT THAT YOU ENTER WILL BE COMPARED BY EXACT UPPER/LOWER CASE MATCHING. EXAMPLE: THE UPPER CASE TEXT (PA) AND THE LOWER CASE TEXT (Pa) WOULD RETURN DIFFERENT RESULTS.

CA

DO YOU WANT THE SEARCH TO BE CASE SENSITIVE? N < ENTER >

ENTER THE TEXT OR PARTIAL TEXT TO SEARCH FOR:

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER SEARCH TEXT #1: WOOD < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #2: PRESERVING < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #3: TREATING < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

**ENTER SEARCH TEXT #4: <ENTER>** 

VIEW MODE ONLY! THIS IS ONLY A TEMPORARY LIST FOR THE SEARCH IN PROGRESS ... (ENTER) CANCEL SEARCH, (N) NEXT PAGE, (P) PREVIOUS PAGE, OR (#1-20) TO VIEW:

<u>#</u>	CONTROL	TITLE
1	RD00038	Record of DecisionSelma Pressure Treating Company,
2	RD00040	Record of DecisionSouth Cavalcade Street, TX
3	RD00047	Record of DecisionL.A. Clarke & Son, VA
4	RD00059	Record of DecisionOld Midland Products, AR
5	RD00070	Record of DecisionNorth Cavalcade, TX
6	RD00073	Record of DecisionBrown Wood Preserving, FL
7	RD00093	Record of DecisionSouthern Maryland Wood, MD

SEARCHING, PLEASE WAIT, OR <ENTER> TO CANCEL ...

SEARCH COMPLETE, PRESS < ENTER > TO CONTINUE ...

23 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ...

can abort the search by hitting the **ENTER**> key while the search is proceeding. Only the records found to that point are included in the number of records found for the search.) You can enter up to 10 texts or partial texts for the first search level. Once the first search level is completed and the number of records found identified, you can expand or narrow your search by using the "OR", "AND", or "NOT" operations; or you can view, print, or download the results of your search (see *How Do You Retrieve Your Search Results?* for information on viewing, printing, and downloading search results). A sample summary search is provided in Exhibit 44.

## How Do You Expand or Narrow Your Search?

### Expanding a Search With "OR"

Menu Option 4 on the DATA OPERATIONS MENU will indicate to ATTIC that you wish to expand your search by including those records containing the keywords or phrases identified in the next search level. The "OR" operation will create a new set of RECORDS SELECTED that contains all of the unique records from all of the search levels. To execute an "OR" operation, type 4 < ENTER > after the "Please Select a Menu Option" prompt below the DATA OPERATIONS MENU. SEARCH ATTIC DATABASE MENU will then appear on the screen, and you can select the type of search desired for the next search level. For example, you could select Menu Option 1 and enter another list of keywords, or you could select Menu Option 7 and enter a phrase to search for in the abstract summaries. Once you have selected the desired Menu Option you will be prompted to enter the keywords or the text or partial text to search for. ATTIC will generate a new set of RECORDS SELECTED and identify the current search level and that the search operation is "OR". You can continue to expand your search by following the same procedure for subsequent search levels up to search level 10 (remember that 10 is the maximum number of search levels supported by the ATTIC Database). Once you have executed all of the desired search levels, you can view, print, or download the results of your search (see How Do You Retrieve Your Search Results? for information on viewing, printing, and downloading search results). Exhibit 45 illustrates how to expand a search using "OR".

In addition to expanding your search, you have the option of narrowing the search or viewing the search results. The procedure for narrowing your search is described in the next section.

## Narrowing a Search With "AND"

Menu Option 5 on the DATA OPERATIONS MENU will indicate to ATTIC that you wish to narrow your search by performing an "AND" operation with the next list of keywords or phrases. The "AND" operation will take all records found from the next list of keywords or phrases you are about to enter and will create a new set of RECORDS SELECTED that will only contain the records from the next list that were contained in the previous list. To execute an "AND" operation, type 5<ENTER> after the "Please Select a Menu Option" prompt below the DATA OPERATIONS MENU. The SEARCH ATTIC DATABASE MENU will then appear on the screen, and you can select the type of search desired for the next search level. For example, you could select Menu Option 3 and enter a list of one or more regions and/or states, or you could select Menu Option 5 and enter the name or names of sites to search for. Once you have selected the desired Menu Option you will be prompted to enter the keywords or the text or partial text to search for. ATTIC will generate a new set of RECORDS SELECTED and identify the current search level and that the search operation is "AND". You can continue to narrow your search by following the same procedure for subsequent search levels up to search level 10 (remember that 10 is the maximum number of search levels supported by the ATTIC Database). In

### Exhibit 44. Summary Search

### 

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- **5) SITE NAME/LOCATION SEARCH**
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

### EXPERT MODE IS OFF

Please Select Menu Option > 7<ENTER>

YOU ARE ABOUT TO DO A FREE-TEXT SEARCH. DEPENDING ON SYSTEM USAGE THIS SEARCH COULD TAKE FROM 1 TO 5 MINUTES TO COMPLETE. YOU CAN ABORT THE SEARCH BY PRESSING THE <ENTER> KEY WHILE THE SEARCH IS PROCEEDING. ONLY THE RECORDS FOUND TO THAT POINT ARE INCLUDED IN THE NUMBER OF RECORDS FOUND FOR THE SEARCH.

IF YOU ANSWER YES AT THE NEXT PROMPT THE TEXT THAT YOU ENTER WILL BE COMPARED BY EXACT UPPER/LOWER CASE MATCHING. EXAMPLE: THE UPPER CASE TEXT (PA) AND THE LOWER CASE TEXT (PA) WOULD RETURN DIFFERENT RESULTS.

DO YOU WANT THE SEARCH TO BE CASE SENSITIVE? N<ENTER>

ENTER THE TEXT OR PARTIAL TEXT TO SEARCH FOR:

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER SEARCH TEXT #1: ANAEROBIC DEGRADATION OF ORGANICS < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #2: SUBSURFACE < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER SEARCH TEXT #3: <ENTER>

VIEW MODE ONLY! THIS IS ONLY A TEMPORARY LIST FOR THE SEARCH IN PROGRESS ... (ENTER) CANCEL SEARCH, (N) NEXT PAGE, (P) PREVIOUS PAGE, OR (#1-20) TO VIEW:

#	CONTROL	TITLE
1	AA00002	Terra Vac In Situ Vacuum Extraction SystemApplications Analysis
2	CA00074	Biological In Situ Treatment of SoilDuPont Biosystems (Summary
3	DL00030	Dover Corporation/Norris DivisionFinal Rule
4	EH00065	In Situ Treatment Process Development Program, Milestone Report 1
5	RA00173	Alaska Husky BatteryRemoval Action (OSC Report Summary)
6	RD00004	Record of DecisionBurnt Fly Bog, NJ
7	RD00012	Record of DecisionU.S. Aviex, MI

SEARCHING, PLEASE WAIT, OR < ENTER > TO CANCEL ...

SEARCH COMPLETE, PRESS < ENTER > TO CONTINUE ...

66 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ...

### Exhibit 45. Using the "OR" Operation

Please Select a Menu Option > 1<ENTER> YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER > TO SEE A LIST OF THE AVAILABLE KEYWORDS. ENTER THE KEYWORD TO SEARCH FOR: IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU. ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: MERCURY < ENTER > IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: GROUNDWATER < ENTER > IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #3 OR (L) < ENTER > FOR A LIST: < ENTER > MERCURY: 38 RECORDS MATCHED THE KEYWORD **GROUNDWATER: 456 RECORDS MATCHED THE KEYWORD** 486 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ... 1) VIEW SEARCH RESULTS 2) PRINT SEARCH RESULTS 3) DOWNLOAD SEARCH RESULTS 4) EXPAND SEARCH USING OR 5) NARROW SEARCH USING AND 6) NARROW SEARCH USING NOT H) HELP V) VIEW CURRENT SEARCH CRITERIA M) RETURN TO MAIN MENU P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC **RECORDS SELECTED: 486 CURRENT SEARCH LEVEL: 1** SEARCH OPERATION: NO OPERATION SELECTED YET. Hint: Use 4, 5, or 6 to expand or narrow the search. **EXPERT MODE IS OFF** Please Select a Menu Option > 4 < ENTER > -----SEARCH ATTIC DATABASE MENU------SEARCH ATTIC DATABASE MENU-----1) KEYWORD SEARCH 2) ATTIC CONTROL NUMBER SEARCH 3) REGION/STATE SEARCH 4) TITLE SEARCH 5) SITE NAME/LOCATION SEARCH 6) SITE HISTORY SEARCH 7) SUMMARY SEARCH H) HELP V) VIEW CURRENT SEARCH CRITERIA M) RETURN TO MAIN MENU

Continued on Next Page

P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF)

Q) QUIT ATTIC

### Exhibit 45. Using the "OR" Operation (Continued)

**RECORDS SELECTED: 486** 

**CURRENT SEARCH LEVEL: 1** 

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 1, 2, 3, 4, 5, 6, or 7 to create the next search list.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 1 < ENTER >

YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER > TO SEE A LIST OF THE AVAILABLE KEYWORDS.

ENTER THE KEYWORD TO SEARCH FOR:

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: LEAD < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: < ENTER >

LEAD: 178 RECORDS MATCHED THE KEYWORD

178 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED) SELECTING RECORDS, PLEASE WAIT ...

### 

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- **5) NARROW SEARCH USING AND**
- 6) NARROW SEARCH USING NOT

H) HELP

V) VIEW CURRENT SEARCH CRITERIA

M) RETURN TO MAIN MENU

P) RETURN TO PREVIOUS MENU

X) EXPERT MODE (ON/OFF)

Q) QUIT ATTIC

**RECORDS SELECTED: 578 CURRENT SEARCH LEVEL: 2** 

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option >

addition to narrowing your search with "AND", you have the option of narrowing the search with "NOT" (see next section), or expanding the search with "OR" (see previous section). Once you have executed all of the desired search levels, you can view, print, or download the results of your search (see How Do You Retrieve Your Search Results? for information on viewing, printing, and downloading search results). Exhibit 46 demonstrates how to use the "AND" operation to narrow a search.

## Narrowing a Search With "NOT"

Menu Option 6 on the DATA OPERATIONS MENU will indicate to ATTIC that you wish to narrow your search by performing a "NOT" operation with the next list of keywords or phrases. The "NOT"

### Exhibit 46. Using the "AND" Operation

### Please Select a Menu Option > 1 < ENTER >

YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER > TO SEE A LIST OF THE AVAILABLE KEYWORDS.

### ENTER THE KEYWORD TO SEARCH FOR:

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: METALS < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: SOIL < ENTER >

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #3 OR (L) < ENTER > FOR A LIST: < ENTER >

METALS: 47 RECORDS MATCHED THE KEYWORD

SOIL: 726 RECORDS MATCHED THE KEYWORD

746 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED)

SELECTING RECORDS, PLEASE WAIT ...

### 

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 746
CURRENT SEARCH LEVEL: 1

SEARCH OPERATION: NO OPERATION SELECTED YET.

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 5 < ENTER >

### ------SEARCH ATTIC DATABASE MENU------

- 1) KEYWORD SEARCH
- 2) ATTIC CONTROL NUMBER SEARCH
- 3) REGION/STATE SEARCH
- 4) TITLE SEARCH
- 5) SITE NAME/LOCATION SEARCH
- 6) SITE HISTORY SEARCH
- 7) SUMMARY SEARCH
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

Continued on Next Page

### Exhibit 46. Using the "AND" Operation (Continued)

RECORDS SELECTED: 746
CURRENT SEARCH LEVEL: 1

SEARCH OPERATION: .AND. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 1, 2, 3, 4, 5, 6, or 7 to create the next search list.

EXPERT MODE IS OFF

Please Select a Menu Option > 1<ENTER>

YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER> TO SEE A LIST OF THE AVAILABLE KEYWORDS.

ENTER THE KEYWORD TO SEARCH FOR:

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: MERCURY < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: < ENTER >

MERCURY: 38 RECORDS MATCHED THE KEYWORD

38 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED)

SELECTING RECORDS, PLEASE WAIT ...

### ------DATAOPERATIONS MENU------

- . 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 16

**CURRENT SEARCH LEVEL: 2** 

SEARCH OPERATION: .AND. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option >

operation will take all records found from the next list of keywords or phrases you are about to enter and will create a new set of RECORDS SELECTED that will exclude records found from the next list that are already in the previous set of RECORDS SELECTED. To execute a "NOT" operation, type 6<ENTER> after the "Please Select a Menu Option" prompt below the DATA OPERATIONS MENU. The SEARCH ATTIC DATABASE MENU will then appear on the screen, and you can select

the type of search desired for the next search level. For example, you could select Menu Option 1 and enter a list of keywords, or you could select Menu Option 7 and enter a list of words or phrases that you want excluded from the previous set of RECORDS SELECTED. Once you have selected the desired Menu Option you will be prompted to enter the keywords or the text or partial text to search for. ATTIC will generate a new set of RECORDS SELECTED and identify the current search level and that the search operation is "NOT". You can continue to narrow your search by following the same procedure for subsequent search levels up to search level 10 (remember that 10 is the maximum number of search levels supported by the ATTIC Database). In addition to continuing to narrow your search with "NOT", you have the option of narrowing the search with "AND" (see previous section) or expanding the search with "OR" (see Expanding a Search With "OR"). Once you have executed all of the desired search levels, you can view, print, or download the results of your search (see How Do You Retrieve Your Search Results? for information on viewing, printing, and downloading search results). Exhibit 47 illustrates how to use the "NOT" operation to narrow a search.

## **How Do You Retrieve Your Search Results?**

There are three commands on the DATA OPERATIONS MENU that you can use to retrieve your search results. Menu Options 1, 2, and 3 can be used to view, print, and download your search results, respectively. Each of these commands are described below.

### **View Search Results**

You can use Menu Option 1--VIEW SEARCH RESULTS--to display the list of the RECORDS SELECTED, including the ATTIC Control Number and the title of each record. Since computer monitors have a limited number of lines per page, only 20 of the records can be displayed at one time. You can scroll up and down through the list using the (N) for NEXT PAGE or (P) for PREVIOUS PAGE Commands while in view mode. You can also use the (G) Command for GOTO PG to advance through the list. If you want to see more detail on any one of the 20 records on the screen, you can simply enter the number of that record after the "(ENTER) TO EXIT, (N) NEXT PG, (G) GOTO PG, OR (#1-20) TO VIEW" prompt. The entire record will be displayed. (Remember to type N < ENTER > after the "(ENTER) TO EXIT, (N) NEXT PAGE, OR (P) PREVIOUS PAGE" prompt to make sure you can view the entire record.) Exhibit 48 demonstrates how to use the VIEW SEARCH RESULTS Command.

## **Print Search Results**

You can use Menu Option 2--PRINT SEARCH RESULTS--to print a hard copy of the RECORDS SELECTED for your search, by typing 2<ENTER> after the "Please Select a Menu Option" prompt under the DATA OPERATIONS MENU. The PRINT SEARCH RESULTS MENU (see Exhibit 49) will then appear on the screen. There are two commands on this menu--Menu Options 1 and 2-that you can use for printing search reports. Menu Option 1--PRINT FULL REPORT (LOG CAPTURE)--generates a complete report of every record selected. The text for the full report is sent as ASCII text in an 80 column format. Due to the large amount of information on each record, it is recommended that you generate a <u>full report</u> only on specific records. If you need to generate full reports for a large number of records, you can use ATTIC's CALL BACK option for retrieving saved reports (see *How Do You Call Back and Download Saved Files?*).

### Exhibit 47. Using the "NOT" Operation

### Please Select a Menu Option > 1<ENTER> YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER > TO SEE A LIST OF THE AVAILABLE KEYWORDS. ENTER THE KEYWORD TO SEARCH FOR: IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU. ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: METALS < ENTER > IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: SOIL < ENTER > IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH. ENTER KEYWORD #3 OR (L) < ENTER > FOR A LIST: < ENTER > **METALS: 47 RECORDS MATCHED THE KEYWORD** SOIL: 726 RECORDS MATCHED THE KEYWORD 746 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED) **SELECTING RECORDS, PLEASE WAIT ...** -----DATA OPERATIONS MENU------1) VIEW SEARCH RESULTS 2) PRINT SEARCH RESULTS 3) DOWNLOAD SEARCH RESULTS 4) EXPAND SEARCH USING OR 5) NARROW SEARCH USING AND 6) NARROW SEARCH USING NOT H) HELP V) VIEW CURRENT SEARCH CRITERIA M) RETURN TO MAIN MENU P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC **RECORDS SELECTED: 746 CURRENT SEARCH LEVEL: 1** SEARCH OPERATION: NO OPERATION SELECTED YET. Hint: Use 4, 5, or 6 to expand or narrow the search. **EXPERT MODE IS OFF** Please Select a Menu Option > 6<ENTER> -----SEARCH ATTIC DATABASE MENU-----1) KEYWORD SEARCH 2) ATTIC CONTROL NUMBER SEARCH 3) REGION/STATE SEARCH 4) TITLE SEARCH 5) SITE NAME/LOCATION SEARCH 6) SITE HISTORY SEARCH 7) SUMMARY SEARCH H) HELP V) VIEW CURRENT SEARCH CRITERIA M) RETURN TO MAIN MENU P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC

**Continued on Next Page** 

### Exhibit 47. Using the "NOT" Operation (Continued)

RECORDS SELECTED: 746
CURRENT SEARCH LEVEL: 1

SEARCH OPERATION: .NOT. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 1, 2, 3, 4, 5, 6, or 7 to creat the next search list.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 1<ENTER>

YOU ARE ABOUT TO DO A KEYWORD SEARCH. THIS WILL PERFORM A FAST SEARCH OF THE ATTIC DATABASE KEYWORDS. YOU MAY WANT TO PRESS THE KEYS (L) < ENTER > TO SEE A LIST OF THE AVAILABLE KEYWORDS.

ENTER THE KEYWORD TO SEARCH FOR:

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL RETURN TO THE PREVIOUS MENU.

ENTER KEYWORD #1 OR (L) < ENTER > FOR A LIST: LEAD < ENTER >

IF YOU PRESS <ENTER > ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #2 OR (L) < ENTER > FOR A LIST: CHROMIUM < ENTER >

IF YOU PRESS <ENTER> ALONE AT THIS PROMPT YOU WILL START THE SEARCH.

ENTER KEYWORD #3 OR (L) < ENTER > FOR A LIST: < ENTER >

LEAD: 178 RECORDS MATCHED THE KEYWORD

CHROMIUM: 148 RECORDS MATCHED THE KEYWORD

259 RECORDS FOUND FOR THIS LIST (DUPLICATES REMOVED)

SELECTING RECORDS, PLEASE WAIT ...

### ------ MENU------DATA OPERATIONS MENU------

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 604
CURRENT SEARCH LEVEL: 2

SEARCH OPERATION: .NOT. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option >

The second print results command on the PRINT SEARCH RESULTS MENU is Menu Option 2-PRINT QUICK REPORT (LOG CAPTURE). You can use this command to quickly generate an abbreviated report for each record. The quick report does not include the abstract summary, site history, or citation fields. The text for the quick report is sent as ASCII text in an 80 column format.

## Exhibit 48. Using the View Search Results Command

### 

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

## RECORDS SELECTED: 242 CURRENT SEARCH LEVEL: 2

SEARCH OPERATION: .OR THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

#### **EXPERT MODE IS OFF**

Please Select a Menu Option > 1 < ENTER >

<u>#</u>	CONTROL	111LE
1	SP00003	Hazcon Solidification/Stabilization Process
2	SP00008	Shirco-Infrared Thermal Destruction Process, Rose Township Site
3	CA00005	Silicate/Cement Process StabilizationSilicate Technology Corp.
4	CA00016	Stabilization Technology to Treat Low pH Zinc and Lead Contaminan
•		•
•		
20	RD00036	Record of DecisionRingwood Mines/Landfill, NJ

### (PAGE 1 OF 13)

(ENTER) TO EXIT, (N) NEXT PG, (P) PREVIOUS PG, (G) GOTO PG, OR (#1-20) TO VIEW: 1<ENTER>

**ATTIC CONTROL NUMBER: SP00003** 

DATE ENTERED: 05/01/90 LAST REVIEWED: 11/21/91 LAST UPDATED: 11/21/91

TITLE: Hazcon Solidification/Stabilization Process

#### NTIS #: N/A

GOVERNMENT PUBLICATION #: EPA/540/5-89/001a
GOVERNMENT CONTACT: EPA/Paul dePercin 513-569-7797

GOVERNMENT ORGANIZATION: EPA RREL Laboratory - Cincinnati, OH

DEVELOPER CONTACT: Timothy Smith ORGANIZATION: Hazcon, Inc. 216-772-2066

REGION/STATE: 03PA

SITE: Douglassville Superfund site, Douglassville, PA

### SUMMARY:

The Hazcon process uses "Chloranan", a patented chemical blend that is claimed to encapsulate organic molecules and render them ineffective in retarding or inhibiting solidification. Wastes are then mixed with pozzolans and water to immobilize and bind the contaminants into a hardened concrete-like mass with a compressive strength of 1000-5000 psi . . .

CONTAMINANT(S): organics, heavy metals, PCBs, lead

Continued on Next Page

## Exhibit 48. Using the View Search Results Command (Continued)

MEDIA: soil, sludge, liquid

TECHNOLOGY: solidification/stabilization

Solidification/stabilization--a chemical blend, called Chloranan can encapsulate organic molecules rendering them ineffective in

retarding the stabilization process.

REPORTED CONCENTRATION: 0.92 mg/l (VOCs); 1.5 - 31.8 mg/l (lead)

ADDITIONAL INFORMATION: Demonstrated on 250,000 cu yds soil with PCBs, lead, and VOCs

COST DATA: \$90-\$200 per ton of processed soil

HISTORY: Former oil reprocessing plant.

**PUBLICATION DATE: 02/01/89** 

Once you have selected either Menu Option 1 or 2, ATTIC will ask you to wait while it builds the report database. ATTIC will then provide you with the estimated time required to generate the report. Then the screen will read "PREPARE TO RECEIVE TEXT. TURN YOUR LOG FILE ON NOW IF DESIRED." (Consult your communications software manual if you need information on how to turn your log file on.) The report will be captured as it is displayed on the screen. Exhibit 49 illustrates the use of the PRINT SEARCH RESULTS COMMAND.

There are four additional commands available on the PRINT SEARCH RESULTS MENU. Menu Option H displays the ATTIC online help system for the PRINT SEARCH RESULTS MENU. Menu Option P returns you to the previous menu (the DATA OPERATIONS MENU). Menu Option X is used to toggle the expert mode on and off, and Menu Option Q will quit or exit the ATTIC Database and return you to the Main Menu of the ATTIC Bulletin Board (PCBoard). ATTIC will not "remember" your location in the program or what searches were running after the Q Command is used.

### **Download Search Results**

You can use Menu Option 3--DOWNLOAD SEARCH RESULTS--from the DATA OPERATIONS MENU to download the generated report to hard copy. The download can be done while online (while you wait), or you can choose to CALL BACK for the report at your convenience. To download your search results, you type 3<ENTER> after the "Piease Select a Menu Option" prompt under the DATA OPERATIONS MENU. The DOWNLOAD SEARCH RESULTS MENU (see Exhibit 50) will appear on the screen. This menu includes a command that you can use to set your transfer protocol (Menu Option 1), and two commands--Menu Options 2 and 3--you can use to download your search results.

Menu Option 1--SELECT TRANSFER PROTOCOL--lets you select a transmission protocol for download of your report. The default protocol is Xmodem. If you do not wish to use Xmodem, you must select Option 1 at least once during your session on the ATTIC Database to change protocols. Unlike the Bulletin Board, the ATTIC Database does not "remember" the protocol you selected during your last session on the Database. To select a transfer protocol you type 1<ENTER> after the "Please Select a Menu Option" under the DOWNLOAD SEARCH RESULTS MENU. The SELECT TRANSFER PROTOCOL MENU will appear on the screen (see Exhibit 51). This menu includes options

## Exhibit 49. Using the Print Search Results Command

### -----DATA OPERATIONS MENU------

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242
CURRENT SEARCH LEVEL: 2

SEARCH OPERATION: .OR THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 2<ENTER>

-----PRINT SEARCH RESULTS MENU-----PRINT

- 1) PRINT FULL REPORT (LOG CAPTURE)
- 2) PRINT QUICK REPORT (LOG CAPTURE)
- H) HELP
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242
CURRENT SEARCH LEVEL: 2

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 1 < ENTER >

BUILDING REPORT DATABASE, PLEASE WAIT ...

ESTIMATED TIME TO GENERATE REPORT: 61 MINUTE(S).

PREPARE TO RECEIVE TEXT.

TURN YOUR LOG FILE ON NOW IF DESIRED.

for ASCII, Xmodem, Xmodem-1K, Y-modem, and Ymodem Batch protocols. The default protocol is set to Xmodem when you first enter the ATTIC Database. (Note: It is highly recommended that you choose a protocol other than ASCII for downloads. ASCII is very slow and should only be used if your machine has no ability to download, or if you are unfamiliar with the download procedures required by your communications software.) From the SELECT TRANSFER PROTOCOL MENU, you can also access the ATTIC online help system for this menu, return to the previous menu, turn expert mode on

### Exhibit 50. Download Search Results Menu

### -DOWNLOAD SEARCH RESULTS MENU------

- 1) SELECT TRANSFER PROTOCOL
- 2) DOWNLOAD FULL REPORT OF SEARCH RESULTS
- 3) DOWNLOAD QUICK REPORT OF SEARCH RESULTS
- H) HELP
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242 CURRENT SEARCH LEVEL: 3

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

NOTE: YOUR CURRENT DEFAULT PROTOCOL IS XMODEM.

USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL.

**EXPERT MODE IS OFF** 

Please Select a Menu Option >

or off, and exit the ATTIC Database and return to the Main Menu of the Bulletin Board. Menu Option 2--DOWNLOAD FULL REPORT OF SEARCH RESULTS--lets you download full reports of the selected records. You can wait online while the report is being generated, or you can save time by using ATTIC's CALL BACK option which allows you to hang up and then call back later to retrieve the report at a more convenient time (see How Do You Call Back and Download Saved Files?). If you select the CALL BACK option, you can also request that ATTIC "zip" the report to speed up the download time. If you are unfamiliar with the PKZIP/PKUNZIP programs, you can check the ATTIC Bulletin Board Download Directory for the latest version of PKZIP which contains the programs and help on using them (see Chapter 4 for information on downloading files from the Bulletin Board). At the bottom of the DOWNLOAD SEARCH RESULTS MENU, the number of RECORDS SELECTED, the CURRENT SEARCH LEVEL, and the SEARCH OPERATION are reported. The screen will also indicate your current default transfer protocol, and whether expert mode is on or off. You can download full reports of the search results by typing 2<ENTER> after the "Please Select a Menu Option" prompt under this menu. Once you have entered the Menu Option, ATTIC will ask you to wait while it is building the report database. ATTIC will also provide you with an estimate of the time required to generate the report. You will then be asked if you would like to call back for this report. If you answer by typing N < ENTER >, you must wait until ATTIC notifies you that the report has been generated. If you answer by typing Y < ENTER >, you will be prompted to enter an eight character name for the report.

Next you will be asked if you would like the file to be zipped for faster download (zipping files can speed download time by up to 90%). If you wish to "zip" the report, type Y<ENTER> in response to this prompt; if not, respond by typing N<ENTER>. (Remember, you must have a copy of the program PKUNZIP to unzip the file. If you do not have this program, you can download it from the ATTIC Bulletin Board Download Directory.) If you indicated that ATTIC should "zip" the report, ATTIC will ask you to wait while the report is being generated. Then the screen will indicate that the report will be available for download in x minutes, and that it can be downloaded from the Bulletin Board or the ATTIC Database. Your file name will appear on the screen and ATTIC will remind you to remember your file

## Exhibit 51. Selecting a Different Transfer Protocol

DOWNLOAD SEARCH RESULTS MENU
1) SELECT TRANSFER PROTOCOL 2) DOWNLOAD FULL REPORT OF SEARCH RESULTS 3) DOWNLOAD QUICK REPORT OF SEARCH RESULTS
H) HELP P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC
RECORDS SELECTED: 242 CURRENT SEARCH LEVEL: 3 SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).
'NOTE: YOUR CURRENT DEFAULT PROTOCOL IS ASCII. USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL.
EXPERT MODE IS OFF Please Select a Menu Option > 1 < ENTER >
SELECT TRANSFER PROTOCOL MENU
1) ASCII 2) XMODEM 3) XMODEM-1K 4) YMODEM 5) YMODEM BATCH
H) HELP P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC
EXPERT MODE IS OFF Please Select a Menu Option > 2 <enter></enter>
TRANSFER PROTOCOL CHANGED FROM ASCII TO XMODEM Press <enter> to Continue <enter></enter></enter>
SELECT TRANSFER PROTOCOL MENU
1) ASCII 2) XMODEM 3) XMODEM-1K 4) YMODEM 5) YMODEM BATCH
H) HELP P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC
EXPERT MODE IS OFF Please Select a Menu Option > P <enter></enter>

Continued on Next Page

## Exhibit 51. Selecting a Different Transfer Protocol (Continued)

### -DOWNLOAD SEARCH RESULTS MENU--

- 1) SELECT TRANSFER PROTOCOL
- 2) DOWNLOAD FULL REPORT OF SEARCH RESULTS
- 3) DOWNLOAD QUICK REPORT OF SEARCH RESULTS
- H) HELP
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242
CURRENT SEARCH LEVEL: 3

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

NOTE: YOUR CURRENT DEFAULT PROTOCOL IS XMODEM.

USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL.

EXPERT MODE IS OFF
Please Select a Menu Option >

name because it will not appear on the Directory List. ATTIC also reminds you that all files are cleared after one week, so you must retrieve your file within this timeframe. You will then be instructed to "PLEASE HANG UP NOW". You can hang up by typing Q<ENTER>, which will cause you to exit the ATTIC Database and return you to the ATTIC Bulletin Board Main Menu. You can exit the Bulletin Board by using the [G]oodbye (Hang Up) Command (see Chapter 3 for information on Bulletin Board commands). Exhibit 52 illustrates how to use the DOWNLOAD SEARCH RESULTS Command.

## How Do You Call Back and Download Saved Files?

If you have used the CALL BACK option for downloading your search results (see Exhibit 53), you must call back to get the report of your search. Once you have logged onto the ATTIC Bulletin Board (see Chapter 3 for instructions on how to logon), you can use the [D]ownload a File Command from the Main Menu of the Bulletin Board to download the file. You must remember your file name because the file name will not appear in the Directory. To download the file, type D<ENTER> after the "Main Board Command?" prompt. You will then be asked to enter the file name (for more information on how to download from the Bulletin Board Main Menu see Chapter 3--How Do You Download a File?).

You can also download your file from the ATTIC Database. Enter the ATTIC Database using the [OPEN] a DATABASE Command from the Main Menu of the Bulletin Board (described at the beginning of this chapter). Next, you select the ATTIC Database (Menu Option 1). From the MAIN MENU, you use Menu Option 2--DOWNLOAD FILES--to retrieve your file. After the "Please Select a Menu Option" prompt, you type 2<ENTER>. The DOWNLOAD FILES MENU will appear on the screen (see Exhibit 54). Menu Options 1 and 2 allow you to select a transfer protocol and download a saved report. Below the menu, ATTIC will indicate your current default protocol and suggest that you use Menu Option 1 if you wish to change it.

Menu Option 1--SELECT TRANSFER PROTOCOL--offers you the choice of ASCII, Xmodem, Xmodem-1K, Ymodem, and Ymodem Batch for your transfer protocol. You can change protocols simply

### Exhibit 52. Using the Download Search Results Command

### ----DATA OPERATIONS MENU----

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- 5) NARROW SEARCH USING AND
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242
CURRENT SEARCH LEVEL: 3

SEARCH OPERATION: .OR THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 3<ENTER>

------DOWNLOAD SEARCH RESULTS MENU-----DOWNLOAD SEARCH RESULTS MENU------

- 1) SELECT TRANSFER PROTOCOL
- 2) DOWNLOAD FULL REPORT OF SEARCH RESULTS
- 3) DOWNLOAD QUICK REPORT OF SEARCH RESULTS
- H) HELP
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242
CURRENT SEARCH LEVEL: 3

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

NOTE: YOUR CURRENT DEFAULT PROTOCOL IS XMODEM.
USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 2<ENTER>

**BUILDING REPORT DATABASE, PLEASE WAIT ...** 

**ESTIMATED TIME TO GENERATE REPORT: 17 MINUTE(S).** 

WOULD YOU LIKE TO CALL BACK FOR THE REPORT: N < ENTER >

THE NEXT OPTION WILL ALLOW YOU TO ZIP YOUR REPORT. YOU MUST HAVE A COPY OF THE PROGRAM PKUNZIP TO UNZIP THE FILE. PLEASE SEE THE MAIN BOARD DOWNLOAD AREA FOR THE PKZIP/PKUNZIP PROGRAMS. IF YOU DO NOT HAVE A COPY OF PKUNZIP ANSWER NO AT THE NEXT PROMPT.

WOULD YOU LIKE THE FILE TO BE ZIPPED FOR FASTER DOWNLOAD? N < ENTER > GENERATING REPORT, PLEASE WAIT ...

SENDING FILE REP1.DOC USING XMODEM

PLEASE USE THE COMMANDS YOUR SYSTEM REQUIRES FOR DOWNLOADING A FILE NOW ...

by entering the Menu Option number of the desired protocol. If you have two or more files that you need to download you can use Ymodem Batch transfer protocol to download them as a batch (see Chapter 4 for more information on how to download a batch of files).

To download your file, type 2<ENTER> after the "Please Select a Menu Option" prompt under the DOWNLOAD FILES MENU. You will then be asked to enter the name of your file. ATTIC will indicate that your file is being sent using the transfer protocol you selected. When the file has been sent, the screen will read "FILE SEND COMPLETE ...". Online help is available for the DOWNLOAD FILES MENU, and you can access it by typing H<ENTER> after the "Please Select a Menu Option" prompt.

If you do not wish to execute a search in the ATTIC Database, you can type Q<ENTER> to exit the database and return to the Main Menu of the Bulletin Board. You exit the ATTIC system by using the [G]oodbye (Hang Up) Command (see Chapter 3 for more information on exiting the Bulletin Board). If you wish to execute another search on the ATTIC Database, type P<ENTER> after the "Please Select a Menu Option" prompt under the DOWNLOAD FILES MENU. The MAIN MENU will appear on the screen, from which you can begin your next search by typing 1<ENTER> after the "Please Select a Menu Option".

#### ------DATAOPERATIONS MENU------DATAOPERATIONS

- 1) VIEW SEARCH RESULTS
- 2) PRINT SEARCH RESULTS
- 3) DOWNLOAD SEARCH RESULTS
- 4) EXPAND SEARCH USING OR
- **5) NARROW SEARCH USING AND**
- 6) NARROW SEARCH USING NOT
- H) HELP
- V) VIEW CURRENT SEARCH CRITERIA
- M) RETURN TO MAIN MENU
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

**RECORDS SELECTED: 242** 

**CURRENT SEARCH LEVEL: 3** 

SEARCH OPERATION: .OR THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

Hint: Use 4, 5, or 6 to expand or narrow the search.

EXPERT MODE IS OFF

Please Select a Menu Option > 3<ENTER>

------DOWNLOADSEARCH RESULTS MENU------DOWNLOADSEARCH

- 1) SELECT TRANSFER PROTOCOL
- 2) DOWNLOAD FULL REPORT OF SEARCH RESULTS
- 3) DOWNLOAD QUICK REPORT OF SEARCH RESULTS
- H) HELP
- P) RETURN TO PREVIOUS MENU
- X) EXPERT MODE (ON/OFF)
- Q) QUIT ATTIC

RECORDS SELECTED: 242

CURRENT SEARCH LEVEL: 3

SEARCH OPERATION: .OR. THE NEXT SEARCH WITH PREVIOUS SEARCH(S).

'NOTE:

YOUR CURRENT DEFAULT PROTOCOL IS XMODEM.

USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL.

**EXPERT MODE IS OFF** 

Please Select a Menu Option > 2<ENTER>

**BUILDING REPORT DATABASE, PLEASE WAIT ...** 

ESTIMATED TIME TO GENERATE REPORT: 17 MINUTE(S).

WOULD YOU LIKE TO CALL BACK FOR THE REPORT: Y < ENTER>

PLEASE ENTER UP TO AN 8 CHARACTER NAME FOR THE REPORT: SOILLEAD < ENTER >

THE NEXT OPTION WILL ALLOW YOU TO ZIP YOUR REPORT. YOU MUST HAVE A COPY OF THE PROGRAM PKUNZIP TO UNZIP THE FILE. PLEASE SEE THE MAIN BOARD DOWNLOAD AREA FOR THE PKZIP/PKUNZIP PROGRAMS. IF YOU DO NOT HAVE A COPY OF PKUNZIP ANSWER NO AT THE NEXT PROMPT.

WOULD YOU LIKE THE FILE TO BE ZIPPED FOR FASTER DOWNLOAD? Y < ENTER>

**GENERATING REPORT, PLEASE WAIT ...** 

THE REPORT WILL BE AVAILABLE IN ABOUT 15 MINUTE(S).

THE REPORT WILL BE AVAILABLE AS A DOWNLOAD FROM PCBOARD, OR THIS PROGRAM.

YOUR FILE NAME IS: SOILLEAD

PLEASE REMEMBER YOUR FILE NAME, IT WILL NOT APPEAR ON THE DIRECTORY LIST.

ALL OLD FILES ARE CLEARED AFTER ONE WEEK.

CALL BACK AT YOUR CONVENIENCE ...

PLEASE HANG UP NOW.

### Exhibit 54. Downloading a Saved File

------MAIN MENU------1) SEARCH ATTIC DATABASE 2) DOWNLOAD FILES 3) ATTIC INFORMATION H) HELP X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC **EXPERT MODE IS OFF** Please Select a Menu Option > 2<ENTER> ------DOWNLOAD FILES MENU------1) SELECT TRANSFER PROTOCOL 2) DOWNLOAD A SAVED REPORT H) HELP P) RETURN TO PREVIOUS MENU X) EXPERT MODE (ON/OFF) Q) QUIT ATTIC NOTE: YOUR CURRENT DEFAULT PROTOCOL IS XMODEM. **USE OPTION 1 TO SELECT A DIFFERENT PROTOCOL. EXPERT MODE IS OFF** Please Select a Menu Option > 2 < ENTER > PLEASE ENTER THE NAME OF THE FILE: SOILLEAD < ENTER > FILE SEND COMPLETE ...

# Appendix A ATTIC Bulletin Board Commands

b[A]ck to the Main Menu Exits the current Special Interest Group (SIG), if you are in one, and returns you to the Main Board Menu.

Subcommands: None

[B]ulletin Listings

Displays a menu of bulletins.

Subcommands: # A D N R S NS

# (e.g., B 1) Selects a bulletin number to read, etc.

A Displays all bulletins

**D** Enters download mode to download selected bulletin(s)

N Displays all new bulletins since you last logged on

R Re-displays the bulletin menu

S Searches for text in selected bulletins (#) or in all (A) bulletins

NS Displays selected bulletin non-stop

[BYE]

Logs off and hangs up the phone (same as command G Y)

Note: command requires all characters, BYE

Subcommands: None

[CHAT] Between Nodes

Allows you to communicate directly with other callers who are logged on through other phone lines (called nodes). The command requires all four characters, CHAT, unlike most commands.

Subcommands: #GAUQE

# Begins CHAT with person indicated by node number (#)

G Initiates a group CHAT

A Announces your own node as available for CHAT

U Announces your own node as unavailable for CHAT

Q Quits or Exits (CHAT)

E Quits or Exits (CHAT)

[C]omment to SYSOP

Allows you to leave a private message to the SYSOP (SYStem OPerator).

**Subcommands:** None

### [D]ownload a File

Allows you to retrieve a file from the BBS to your computer.

Subcommands: "filename" "protocol"

"filename"

filename for download used on command line (DOS wildcards

permitted)

"protocol"

sets transfer protocol

### [DB] Download a Batch

Allows you to download several files, prompting you to add a second file name to the command line.

<u>Subcommands</u>: "filenames" "protocol"

"filenames"

filenames for download (DOS wildcards permitted)

"protocol"

sets transfer protocol

### [E]nter a Message

Allows you to leave a message for another user or users. After entering a message, you may hit **ESC**> to access subcommands:

### Postcommands: ACDEFHILQSU

- A Abort the message entry and return to Main Board Menu
- C Continue the message
- Delete—prompts user for line number in message to delete
- E Edit—requests line number in message to edit
- F Selects full-screen editing rather than line-by-line editing
- H Displays help information
- I Insert—prompts user for line number and text to insert
- L List—re-displays current message in line-by-line mode
- Q See [RE]ply command
- S Saves the message
- U Uploads to a remote editor (unnecessary in local mode)

### [F]ile Directories

Describes directories from which files may be downloaded. Files new to caller are displayed with asterisk.

### Subcommands: # D L N R U V Z NS

- # Identifies a directory by number
- D Prompts user for file to download
- L Locate a file among several directories
- N Locate a file by date
- R Re-list menu of available directories
- U Displays files in upload directories
- V View—displays contents of a file
- Z Zippy search—searches all directory files for specified text
- NS Displays file in non-stop mode

[FLAG] for Download

Allows you to mark a file for future downloading.

Subcommands: "filename"

"filename" Name of file you want to mark.

[G]oodbye (Hang Up)

Begins logoff sequence. Prompts user with Proceed With Logoff? Yes or No. An answer of Y completes the logoff and phone hang up; N leaves user connected to

the BBS. (Command BYE combines the commands G Y)

Subcommands: None

[H]elp

Displays context-sensitive help on any command in the menu.

Subcommands: "command name"

"command name" The command for which user requires additional information.

[I]nitial Welcome

Displays the original welcome screen.

Subcommands: None

[J]oin a SIG

Displays a menu of Special Interest Group (SIG) areas and allows you to join one.

Subcommands: # "name" Q J Main

# Number of SIG you want to join "name" Name of SIG you want to join

Q Allows you to bypass the news when entering a SIG

J Main Will exit the SIG you are in and return you to the Main Board)

[K]ill a Message

Deletes a message from the system.

Subcommands: "message #"

"message #" Message number to delete

[L]ocate a File

Allows you to scan the file download directories for a filename.

Subcommands: "filename" # A D N U NS

"filename" Name of file you are seeking (DOS wildcards allowed)

# Specifies the number (#) of the directory to search

A Searches all available files within a SIG

D Used to flag a specified file for download

N Specifies a date for scanning files dated after that date

U Searches in all upload directories NS Files displayed in non-stop mode

[MENU]

Re-displays the Main Board Menu one time.

Subcommands: None

[M]ode (Graphics)

Changes to or from the graphics mode depending on your current setting. (To use the graphics mode, you must have installed the ANSI.SYS driver, which comes with PC-DOS.)

Subcommands: None

[N]ew Files

Locates any files uploaded to the BBS since the specified date.

Subcommands: "date" # A D S U NS

"date" Date to begin a search for new files using MMDDYY format

A number of a directory to search if you want to limit the search

A Searches all post-dated files in all directories

D Marks all queued files for download

S Scans most recent files
U Searches upload directories
NS Displays files in non-stop mode

[NEWS] Screen Display

Displays news in the current Special Interest Group (SIG) area.

Subcommands: None

[OPEN] a Database

Allows you to temporarily "exit" PCBoard (the BBS software) to run an online application program such as a database.

Subcommands: # "name"

# Number of door to open"name" Name of door to open

[P]age Length

Allows user to specify the number of lines displayed on screen.

Subcommands: #

# Number of lines displayed per screen

### [Q]uick Message Scan

Scans all public messages for number and subject.

### Subcommands: #FYSNS+-TSUSER

#	Message number from which to start the scan
F	Locates all messages left by you
Y	Locates all messages sent to you
S	Displays all messages that you have not already read
NS	Displays messages in non-stop mode
+	When appended to "#" displays messages in forward-numerical order
•	When appended to "#" displays messages in reverse-numerical order
TS	Scans message text as well as header but displays only header
USER	Locates all messages left by or for an indicated caller

### [R]ead a Message

Allows you to read messages.

## Scanning Subcommands: # F Y YA S L A ALL TS USER SKIP JUMP SELECT DESELECT

#	Indicates the message number to read
F	From-scans messages left by you for other(s)
Υ .	Your-scans messages sent to you
YA	Yours/Allscans messages sent to you or to all users
S	Since-scans and displays all messages not already read
L	Last-reads messages backwards starting from the most recent
A	Reads messages from all selected Special Interest Groups (SIGs)
ALL	Reads messages from all SIGs
TS	Scans header of each message for indicated text
USER	Scans for messages left to or received from an indicated user
SKIP	Skips remaining messages in current SIG—usually used after R A
	or R S command
JUMP	Jumps to next SIG to continue message reading
SELECT	Selects a particular SIG for future message scanning
DESELECT	Deselects a particular SIG for bypassing during future message base scanning

### Display Subcommands: NS NEXT PREV RM RM+ RM- + -/

· NS	Non-stop mode for displaying messages
NEXT	Displays next numerical message
PREV	Displays previous numerical message
RM	Re-displays the last read message
RM+	Re-displays the last read message and places message base in
	forward mode for further reading
RM-	Re-displays the last read message and places message base in
	reverse mode for further reading

- + When appended to a message number (#) displays all messages in forward-numerical order
- When appended to a message number (#) displays all messages in
- reverse-numerical order
- / Re-displays current message

### Capturing Subcommands: C D Z

C Capture—messages displayed by current command are placed in a

file and prepared for download

D Messages displayed by current command are placed in a file and

immediately downloaded

Z Same as subcommand D except the file is compressed before being

downloaded

### General Subcommands: EDIT

EDIT Places the current message in the editor for modification

### Subcommands: RE RR M T T- K N

RE	You may reply to the current message with the command RE
RR	Immediately accesses the reference message to which the current
	maggaga is a mamle.

message is a reply

M Invokes a pointer at the current message to make it easier to return

to that message at a later time (See [RM] Re-Read Memorized

Message command.)

T Scans forward, and T— scans backward, through all messages that

have an identical subject to that of current message Deletes or kills a current message to or from you

N Ends message reading without exiting the BBS

[RE]ply to Messages

Allows you to reply to a message using all commands available under [E]nter a Message. (You may reply to a message while in [R]ead a Message command—See RE subcommand under [R]ead a Message.)

Subcommands: #

K

# The number of the message to which you would like to respond

Ouoting: <ESC>Q <CTRL>Q

<ESC>Q When used during a reply, initiates a series of prompts that helps you display, copy, and move designated parts of the original message using the line-by-line editor

Performs the same function as the Q command, using the full-screen editor rather than the line-by-line editor.

[RM] Re-Read Mem'd Msgs

If you have marked a message with a pointer (M subcommand under [R]ead a Message) while you were reading your messages, you may recall it with this command.

Subcommands: None

[S]cript Questionnaires

Displays a list of questionnaires available for you to complete.

Subcommands: None

[SELECT] SIGs for Scan

Lists the Special Interest Groups (SIGs) to which you have access for scanning or reading your mail (messages).

Subcommands: S # D Q

- S Selects all SIGs for scanning by placing "X" in each SIG flag field
- # Deselects a SIG that has an "X" flag (removes the "X")
- D Deselects all SIGs for scanning (removes all "X" flags) Q (quit) returns you to the Main Board Menu
- O Returns to Main Board Menu

Transfer Protocol

Displays a list of communications protocols for uploading or downloading files.

Subcommands: letter or number of protocol in menu

[TS] Text Search Msgs

Allows you to scan text and headers of messages to locate specified text.

Subcommands: FYSAALLLCDZNSRM+RM-##+##—USER | &

- F Uses specified text string to scans all messages left by you
- Y Uses specified text string to scan all messages left for you
- S Displays all messages not already read that contain specified text string
- A Scans all selected SIGs for the text string
- ALL Scans all SIGs, whether selected or not, for the text string
- L Reads current message base backward, last message to first
- C Displayed messages are placed in a file and prepared for download to your computer
- D Displayed messages are placed in a file and downloaded
- **Z** Provides same function as subcommand **D** except that it compresses the file
- NS Messages displayed in non-stop mode
- RM+ Re-displays last message and puts message base in forward mode

RM- Re-displays last message and puts message base in reverse mode

##+ Scans message base for specified text from this point forward

##- Scans message base for specified text from this point backward

USER Displays messages with specified text left to or received from indicated user

Boolean OR operand which when placed in text locates either first or second text string or both

& Boolean AND operand which when placed in text locates both the first and second text strings

### [U]pload a File

Allows you to upload, or transfer, a file to the BBS.

Subcommands: "filename" "protocol"

"filename"

DOS name of file to be uploaded

"protocol"

Selects a transfer protocol

### [UB] Upload a Batch

Similar to the [U]pload command, but UB assumes that more than one file will be uploaded and prompts you for each filename.

Subcommands: "filenames" "protocol"

"filename(s)" DOS name of file to be uploaded

"protocol" Transfer protocol for the batch

### [USERS] List Users

Allows you to use a text string to search the current users' file for a name, location, or last logon date.

Subcommands: "text string" | &

"text string" Scans and displays all user records with the appropriate text

Boolean OR operand which when placed in text (John Utah)

locates either first or second text string or both

& Boolean AND operand which when placed in text locates both the

first and second text strings.

### [V]iew Settings

Displays your current BBS settings including, for example, your last date on the BBS, security level, and active messages.

Subcommands: None

### [WHO]

Displays the CHAT status of each node (phone line), but does not permit communication with another node (see CHAT command to communicate with other callers).

### Subcommands: None

## [W]rite User Information

Allows you to change your password, address, phone number, full-screen editor default (on/off/ask) or Special Interest Groups for scanning.

Subcommands: None

### [X]pert Mode On/Off

Allows you to toggle between expert and novice modes. Expert mode suppresses the menus and provides abbreviated command prompts. (See [MENU] command.)

Subcommands: None

### [Y]our Personal Mail

Scans the entire message base for mail addressed to you or left by you.

### Subcommands: A ALL S NS Q L C + -

A Scans all selected SIGs including main board

ALL Scans the entire board including all SIGs

S Scans only those messages since the last message read

NS Displays messages non-stop

Q Displays only the total number of personal messages found in the message base(s)

L Scans and displays the number of each personal message found in the message base(s)

C Scans only the current message base

+ When added to a message number, scans from that point forward

- When added to a message number, scans from that point backward

## [Z]ippy Directory Scan

Allows you to scan the file download directories for a matching text entry of your choice.

### Subcommands: # A D N U NS | &

- # Number of a directory to be scanned
- A Scans for text string in all directories
- D Flags each file found with matching text for download
- N Scans for matching text only in files created after a user specified date
- U Scans only upload directories for matching text
- NS Displays screen output non-stop
- | Boolean OR operand which when placed in text (John | Utah) locates either first or second text string or both
- & Boolean AND operand which when placed in text locates both the first and second text strings

## Appendix B Full-Screen Editor Keyboard Commands

Cursor Movements	PC Keyboard	Control Keys	ANSI Codes
Move Left a Character	Left Arrow	Ctrl-S	ESC[D
Move Right a Character	Right Arrow	Ctrl-D	ESC[C
Move Left to Previous Word	Ctrl-Left Arrow	Ctrl-A	
Move Right to Next Word	Ctrl-Right Arrow	Ctrl-F	
Move to Next Tab Stop	Tab Key	Ctrl-I	
Move to Start of Line	Home Key	Ctrl-W	ESC[H
Move to End of Line	End Key	Ctrl-P	ESC[K
Move Up a Line	Up Arrow	Ctrl-E	ESC[A
Move Down a Line	Down Arrow	Ctrl-X	ESC[B
Move Up a Page	PgUp Key	Ctrl-R	
Move Down a Page	PgDn Key	Ctrl-C	

Edit Function	PC Keyboard	Control Keys
Toggle Insert Mode	Insert Key	Ctrl-V
Reformat Paragraph		Ctrl-B
Join a Line		Ctrl-J
Insert a Line		Ctrl-N
Delete a Line		Ctrl-Y
Delete to End of Line		Ctrl-K
Delete Character	Delete Key	Ctrl-G
Delete Character to the Left	Backspace	Ctrl-H
Delete Word to the Right		Ctrl-T
Special Functions	PC Keyboard	Control Keys
Exit Full Screen Editor	ESC	Ctrl-U
Redisplay Screen		Ctrl-L
Quote or List Original		Ctrl-O or Ctrl Q

# Appendix C ATTIC Bulletin Board Help Function Files

### [A] bandon SIG - Help Function

Subcommands:

None

Description:

Places you back in the main section of the board. If you are not in a SIG, the main

menu is re-displayed along with the main command line prompt.

### [B]ulletin Listings - Help Function

Subcommands:

(#) (A) (D) (R) (S) (NS)

(#) The bulletin number to view(A) Displays all of the bulletins

(D) Immediately goes into download mode to send the bulletin
 (N) Displays a requested bulletin only if it is new to the caller

(R) Re-displays the Bulletin Menu choices

(S) Scans the bulletins for text

(NS) Displays request in non-stop mode

Description:

Allows viewing of available Bulletins.

Selecting

**Bulletins:** 

Numbers can be stacked, such as "1 2 3" or "1;2;3".

Typing "A" will select all of the bulletins for display.

Combining "A" with "N" would display all new bulletins while combining "A" with "S" would search all bulletins and display only those bulletins containing the search

text entered.

Reading

Bulletins:

Typing "NS" selects non-stop mode which avoids page breaks in the display.

Typing "D" puts the system immediately into download mode to send the file using

the default protocol.

Examples:

123 Displays bulletins 1, 2, and 3

2 N Displays bulletin 2 if, and only if, it is new

**BAN** Displays all new bulletins

**B A N D** Using a batch protocol downloads all new bulletins

### [CHAT] or [NODE] Node CHAT - Function Help

Subcommands:

(#) (G) (A) (U)

- (#) Any other active Node Number
- (G) Places you in Group CHAT with others
- (A) Flags your Node as being available for CHAT (default)
- (U) Flags your Node as being unavailable for CHAT

Description:

Allows interactive keyboard conversation with one or more other system nodes. To CHAT with only one other node, enter that node's number. To CHAT with a group of nodes, enter G. If a node is available for CHAT, you will be advised of such. If the Node requested is available, they will be informed of your request. When entering (G)roup CHAT, only other Nodes which are already in Group CHAT will be advised that you have joined them.

When in Node CHAT, the following subcommands are available:

(Q) (E) (U) (H)

- (Q) Quits Node CHAT
- (E) Also quits Node CHAT
- (U) Displays the status of the other Nodes
- (H) Gives a quick display of these subcommands

When conversing in Node CHAT, there can be delays between when you enter your text to the other person, and the time it takes them to respond. Since text is only sent to the other Node when an **ENTER**> key is hit or word-wrap occurs, there can be time periods of several seconds between text coming back to your screen. Please WAIT until it is your turn to type! End your text with a "/ga" or "/o" to indicate it is the other person's turn to type -- and then WAIT!

### [Clomment to SYSOP - Help Function

Description:

Allows leaving a comment to the ATTIC SYSOP.

Full Screen Editor:

After selecting [C], you will be asked if you want to use the Full Screen Editor. To use the Full Screen Editor your software must be capable of interpreting ANSI cursor position commands. The default answer to the question will be N (for no) if the system did not detect ANSI on your end or if you are in novice mode.

Entering a Comment:

You will be prompted to enter the text. Each line you enter will be preceded by its line number. Up to 72 characters per line and a maximum of 99 lines are allowed. Typing beyond the 72 character limit will cause your text to automatically "wordwrap" down to the next line.

Exiting the Editor:

There are two modes in which text can be entered which you will already have chosen by the time you get to the editor. One of them is the Line Editor mode where only

one line at a time can be entered or edited, and the other is the Full Screen Editor mode in which the entire screen is used as the workspace for message entry.

To exit the Line Editor, hit **ENTER** to advance to a blank line and then hit **ENTER** again. To exit the Full Screen Editor, hit **ESC** or **CTRL** U.

After you exit the Line Editor or the Full Screen Editor you will be prompted for message completion subcommands as described below.

Message Completion Subcommands:

A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg (SK) (SN)

(A)brt	Abandons or cancels your message entry
(C)ont	Allows you to continue using the Line Editor
(D)el	Allows you to delete a line of text from the message
(E)dit	Allows you to edit a line of text from the message
(F)ullScr	Allows you to continue using the Full Screen Editor
(H)elp	Displays this help file
(I)nsert	Allows inserting a line of text in front of another
(L)ist	Displays your text entry so far on the current message
(Q)uote	Allows you to quote a portion of the replied-to message
(S)ave	Actually writes the message to disk
(U)pldMsg	Allows you to upload ASCII text without echo
(SK)	Saves your message, kills replied-to message (if applicable)
(SN)	Saves your message, skip re-display of replied-to message

Note: The format to (E)dit a line of text is: old text; new text where the old text is the text you wish to replace, followed by a ";" followed by the new text. The old text search is case sensitive—so capital letters must match exactly. If your new text causes that line to exceed 72 characters, the characters beyond 72 will be truncated from the line.

When "uploading" ASCII text to the message base, insure your text lines are 72 characters or less in length.

Note: While in the Full Screen Editor you can press < CTRL> Z to get help on the editing keys available in the Full Screen Editor.

### [D]ownload a File - Function Help

Subcommands:

(filename) (protocol) (GB or BYE)

(filename)

Any valid DOS filename must be used and more than one filename may be entered if you choose to use a BATCH

protocol for the file transfer

(protocol) Any letter from A-Z of the protocol desired based on the

protocols available

(gb) or (bye) Either (gb) or (bye) may be entered on the command line to

indicate that you want the system to hang up after it finishes

the file transfer

Description:

Allows transferring a file from the ATTIC system to your machine.

There can be up to 26 different types of protocols available. If you have not previously set a default protocol for the system you are calling, you will be asked for the protocol type each time you request a download. ASCII protocol transfers are only available on non-binary text files. Filenames with .EXE, .ARC, .COM, .WKS, etc., cannot be downloaded using ASCII protocol.

Due to the wide range of protocols now available, it is suggested you check with the ATTIC system operator if you have a question on which protocols have been implemented and how to properly set your software protocols to match those of ATTIC.

Selecting Files:

Filenames do not need to be typed in completely in order for the system to locate the desired file. A default filename extension is usually provided by the system operator such as ".ZIP", so that if you request a file called TEST it will first search to see if a file called TEST.ZIP can be located and, if not, it will search for TEST and send whichever file it finds.

In some cases this default extension can make it difficult to download a desired file. For instance, if both TEST and TEST.ZIP exist on the system, then typing "D TEST" will always result in downloading TEST.ZIP. To download the file called TEST in this instance, you would need to type TEST followed by a period with no extension, as below:

#### D TEST. < ENTER >

You may also locate files for download by using the \* and ? wildcard characters--the same as those used by DOS to specify files. See the examples below.

Batch Downloads:

Some protocols allow you to download more than one file at a time. Examples of this are the Ymodem and Ymodem/G protocols. Downloading more than one file at a time requires that you select a batch protocol on both your end and the host end of the connection.

To select more than one file you must either enter **DB** as your download command or type more than one filename on the command line, each separated by a space.

Examples:

D TEST < ENTER >

This command downloads TEST using the default protocol.

D TEST X < ENTER >

This command downloads TEST using the Xmodem protocol.

D TEST1 TEST2 Y < ENTER >

This command downloads both TEST1 and TEST2 using

Ymodem/Batch.

D TEST? G < ENTER >

This command downloads both TEST1 and TEST2 using Ymodem/G.

D TEST\*.\*<ENTER>

This command downloads any file starting with TEST.

### [DB] Download a Batch - Function Help

See [D]ownload a File - Function Help

### (End of Message) Command - Function Help

### Commands Available to All:

(	Enter)	Continues on with message read function.
(	N)	Stop reading messages
(	NS)	Continue reading messages in non-stop format
	<b>T</b> )	Thread read (forward) (or T+)
	T-)	Thread read (backwards)
•	#) <sup>´</sup>	A specific message number between 1 and 9999999
	+)	Alone reads messages forward from present position or when appended to
•	•	a number causes forward reading from that message number
(	<del>-</del> )	Alone reads messages backwards from present position or when appended
•	•	to a number causes backward reading from that message number
(	<b>F</b> )	Selects only messages left by you
(	Y)	Selects only messages left for you
	YA)	Selects only messages left for you or addressed to "ALL"
(	S)	Selects messages above the last one you have read
(	<b>A</b> )	Read messages in all SELECTed SIGs
(	ALL)	Read messages in all SIGs in which you are registered
(	L)	Read in backwards order from the last message to the first
(	<b>C</b> )	Capture the messages to a file for download
(	D)	Implies a (C)apture and immediately downloads
(	Z)	Implies a (D)ownload but compresses the file before goodbye
(	G)	Goodbye
(,	J)	Join another SIG
(	Q)	Display only the message headers (Quick Message Scan)
(,	<i>(</i> )	Re-displays the current message
(	RE)	Enter a reply to the message just read
(	RR)	Read the referenced message
(	M)	Memorize that message number for later return
(	RM)	Return to a previously "memorized" message number
(	TS)	Searches messages for the specified search criteria
G	SET)	Sets the number of the last message read

(NEXT) Reads next higher message number available

(PREV) Reads next lower message number available

(USER) Begins a search for messages to/from a specific user

Additional Command Available if Message is To/From You:

(K) Kill the message

Additional Command Available if Message is From You:

(E) Edit the "To:" and "Subj" of the message header and 'Echo' flag if applicable

Note: Commands can be stacked together at the "End of Message

Command?" prompt.

Examples:

R 1+ < ENTER > This command will read all messages from #1 to the end.

R 1 5 10 20 < ENTER > This command will read messages 1, 5, 10, and 20 and then stop.

R S < ENTER > This command will read all mail that is new for you.

R L < ENTER > This command will read all mail in reverse order beginning to end.

TS A 1+ < ENTER > This command will search through every available message in ALL SIG

PCBoard & LANtastic < ENTER > areas you are set to scan for any message that has the word "PCBoard"

AND the word "LANtastic" in it.

TS A 1+ < ENTER>
This command will search through every available message in ALL SIGS
PCBoard & (LANtastic | you are set to scan for any message that has both the word "PCBoard"

DESQview) < ENTER>
AND either the word "LANtastic" OR the word "DESQview" in it.

The parentheses tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parentheses and any combination of ANDs (using the "&" character) and ORs (using the "\" character).

TS A 1+ USER JOHN DOE

<ENTER>
This command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words

"PCBoard" and "Help" in them.

This command will capture all messages in all SIGs since the last message read, compress the capture file and then begin the download procedure.

R SET 100 < ENTER > This command sets the last message read for that SIG to 100.

**APPENDIX C--ATTIC Bulletin Board Help Function Files** 

R A Z < ENTER >

### [EInter a Message Command - Help Function

Description:

Allows leaving a message to another ATTIC user (or users) for them to read at a later

time.

Full Screen Editor:

After selecting [E], you will be asked if you want to use the Full Screen Editor. To use the Full Screen Editor your software must be capable of interpreting ANSI cursor position commands. The default answer to the question will be N (for no) if the system did not detect ANSI on your end or if you are in novice mode.

Addressing the Message:

You will be prompted to enter the name of the person the message is being addressed to. The name entered is then checked against all names in the users' file to ensure a proper match. If the user's name is not found, or the user is not registered in the same SIG or bulletin board area where the message is being entered, you will be advised of such to avoid leaving a message to a non-existent user. However, a SOUNDEX search to locate a name that sounds like what you entered can be performed or you can override the verification and answer (C) to continue and use the name that you have entered which might be done to facilitate leaving a message to a group of people. By not entering a user name at the "To:" prompt, it will automatically address the message to "ALL" users.

Brackets will be displayed either above the line or surrounding the area on the screen in which you are allowed to enter text.

Entering a Subject:

Next, you will be prompted to enter a subject of up to 25 characters. If no subject is entered, you will be returned to the main menu and "Main Board Command?" prompt.

Message Security:

A message security prompt will appear next. If you do not know the options available for message security, type H as indicated in the prompt. The default for message security is N for none, which allows all users to read the message. The security options include:

(N)one Means that the message will be open for all users to read.

(G)roup Allows assigning a password to the message which only other users who know the common password will be allowed to read.

(R)eceiver Makes the message private to all except you--the person sending it--and the person to whom it is addressed.

(S)ender Allows you to assign a password to the message so that only you can kill the message later. This prevents the other person to whom the message is addressed from killing it.

Note: You CANNOT assign (R)eceiver protection to a message which has been addressed to ALL.

All Messages Private?

A message base can be set up such that all messages are initially flagged as private. In this case, the above security prompt is skipped and the message will be saved using (R)eceiver security so that only you and the person to whom the message is addressed can read it.

Entering a Comment:

After completing the above steps, you will be prompted to enter your text. Each line you enter will be preceded by its line number. Up to 72 characters per line and a maximum of 99 lines are allowed. Typing beyond the 72 character limit will cause your text to automatically "word-wrap" down to the next line.

Exiting the Editor:

There are two modes in which text can be entered which you will already have chosen by the time you get to the editor. One of them is the Line Editor mode where only one line at a time can be entered or edited, and the other is the Full Screen Editor mode in which the entire screen is used as the workspace for message entry.

To exit the Line Editor, hit <ENTER> to advance to a blank line and then hit <ENTER> again. To exit the Full Screen Editor, hit <ESC> or <CTRL>U.

After you exit the Line Editor or the Full Screen Editor you will be prompted for message completion subcommands as described below.

Message Completion Subcommands: A)brt, C)ont, D)el, E)dit, F)ullScr, H)elp, I)nsert, L)ist, Q)uote, S)ave, U)pldMsg (SC) (SK) (SN)

(A)brt	Abandons or cancels your message entry
(C)ont	Allows you to continue using the Line Editor
(D)el	Allows you to delete a line of text from the message
(E)dit	Allows you to edit a line of text from the message
(F)ullScr	Allows you to continue using the Full Screen Editor
(H)elp	Displays this help file
(I)nsert	Allows inserting a line of text in front of another
(L)ist	Displays your text entry so far on the current message
(Q)uote	Allows you to quote a portion of the replied-to message
(S)ave	Actually writes the message to disk
(U)pldMsg	Allows you to upload ASCII text without echo
(SC)	Allows saving the same message to another individual
(SK)	Saves your message, kills replied-to message (if applicable)
(SN)	Saves your message, skips re-display of replied-to message

Note:

The format to (E)dit a line of text is: old text; new text where the old text is the text you wish to replace, followed by a ";" followed by the new text. The old text search is case sensitive--so capital letters must match exactly. If your new text causes that line to exceed 72 characters, the characters beyond 72 will be truncated from the line.

When "uploading" ASCII text to the message base, insure your text lines are 72 characters or less in length.

Note:

While in the Full Screen Editor you can press < CTRL> Z to get help

on the editing keys available in the Full Screen Editor.

### [Flile Directories - Function Help

Subcommands:

- (#) (A) (D) (L) (N) (R) (U) (V) (Z) (NS)
- (#) The directory number to view
- (A) Display all directories
- (D) Download a specific filename
- (L) Locate files by name (wildcards are okay)
- (N) New files (locate files by date)
- (R) Re-lists the directory menu
- (U) Display upload directory
- (V) View contents of a compressed file(Z) Zippy directory scan (locate files by scanning for text)
- (NS) Displays request in non-stop mode

Description:

This command allows you to view a listing of the files available. After selecting the [F]ile Directories command, a listing of the file directories available will be displayed--usually grouped by category. To view one or more of the directory listings, enter the number(s) to view. Multiple listings can be viewed at the same time by entering several numbers at the same time. For example:

By adding the (NS) Non-Stop parameter at the end or your request, the entire listing will be displayed with screen pauses every 23 lines.

You can use the (V)iew subcommand to view the files included in a compressed file listed in one of the directories. If you elect to (D)ownload the file just (V)iewed, the filename of the viewed file will automatically be carried forward as the download filename request unless overridden by you.

Additionally, at any "More?" prompt shown while displaying a list of files available you can use the (F)lag command to flag a file for download.

### [FLAG] File for Download - Function Help

Subcommands:

(filename 1) (filename 2) (filename 3) etc.

(filename) is the name of the file to be downloaded. Multiple names can be stacked on the same line and wildcards may be used in the name.

Description:

The FLAG command is used to mark files or groups of files for later download. For instance, you may be busy looking at a list of download files and find some that you want to download, but do not wish to download them at that very moment. Rather

than having to write down the name or try to remember it later, you can simply tell the system to flag the file and remember it for you.

To download the files that are flagged, you would then issue a (D)ownload command at which point the system will ask you if you want to download the files that were flagged. Answering no will cause the system to forget the files that were flagged.

Examples:

FLAG test1

Functioning the same as the download command, this command will first check to see if TEST1. <ext> exists where <ext> is the default extension for the system you are on. For example, it will see if TEST.ZIP exists and, if not, it will attempt to flag TEST instead.

FLAG file1 file2

file3 < ENTER >

This command flags all three files for download.

FLAG file\*.txt

This command flags any files matching file\*.txt for later download.

### [Gloodbye - Function Help

Subcommands:

None

Description:

Disconnects you from the host system. This command should always be used to log off the system to ensure proper updating of all message pointers, etc. NEVER just drop the carrier by issuing an <ALT>X (or equivalent) command to your communications software without first entering the (G) command.

### [H]elp - Function Help

Subcommands:

(A-Z) (CHAT) (DOOR)

(A-Z)

is any letter of the alphabet

(CHAT)

or (NODE) displays Node CHAT help file

(OPEN)

or (DOOR) displays OPEN help file

Description:

Displays the appropriate help file which corresponds to the command you need help with. The software usually indicates that help is available by displaying an (H) option at the command line you are at. Additionally, the code will also recognize a (?) in place of the letter (H) when requesting help. If no help is available, it will simply redisplay the command line prompt.

### [Jloin a Special Interest Group (SIG) Area - Function Help

Subcommands:

(#) or (Name)

A valid SIG number from 0 to the highest SIG number on the system (Name) The name of any existing SIG

Description:

Allows joining an active SIG on the system. The name or number of the SIG to be joined can be included with the (J) command on the same line if desired. If you are not registered in the SIG requested, you will be advised of such and returned to the main command line prompt.

The entering of either a "J" or "O" will function as if you did an (A)bandon command and return you to the main board message base area.

Examples:

J 1 To join SIG #1 To join SIG #2 J 2

### [K]ill a Message - Function Help

Subcommands:

(#)

(#) is a valid active message number

Description:

Allows marking a message as inactive or killed so that others can no longer read it. Additionally, when the Sysop packs the message base, the message will be purged

from the system.

Entry of an invalid message number returns you to the main command line.

### [L]ocate Files by Name - Function Help

Subcommands:

(filename/wildcard) (A) (D) (N) (U) (NS)

Filename to scan for (filename/wildcard)

(A) Scans all available file directories

**(D)** Download all files found

Combine the search with a date scan (N)

Scans only the available upload file directories **(U)** 

Displays listing in non-stop mode (NS)

Description:

Allows you to search the file directory listings for filenames which match those you are looking for. You can also use valid DOS wildcards in your filename request if

you are unsure of the exact filename you are looking for.

Examples:

L TEST A < ENTER >

This command searches all directories for a file called TEST

L TEST\*.\* A < ENTER >

This command searches all directories for any file beginning with TEST

L TEST A D < ENTER >

This command finds TEST and downloads it

L TEST\*.\* U<ENTER>

This command finds TEST\*.\* in the upload directory

L TEST\*.\* N A < ENTER >

This command finds only new files matching TEST\*.\*

Other Examples of

Wildcards

TEST? TEST?.ZIP ??TEST.\*

Note: If the filename is less than 8 characters long and no wildcards have been used, ATTIC automatically appends "\*.\*" to the name (i.e., searching for TEST turns into TEST\*.\*).

If an invalid file is requested, ATTIC will automatically switch to a (Z)ippy Directory Scan command.

### [M]ode - Function Help

Subcommands:

None

Description:

Switches your screen display mode between ANSI graphics and non-graphics mode. If you toggle ANSI graphics on, you must be using a communications program which supports standard ANSI <ESC> code graphics. If you select graphics and get a lot of symbols such as "[01;49m" on your screen mixed in with the normal text display, your software does not support ANSI graphics and you should toggle graphics off by re-entering the (M) command.

Note: The system will automatically detect if you have ANSI capability and your system supports the CURSOR POSITION REPORT sequence. However, you still must select whether or not you want the color graphics sent to you.

### [N]ew Files by Date - Function Help

Subcommands:

(date) (A) (D) (S) (U) (NS)

(date) A valid date in mmddyy format (no spaces!)

(A) Scans all file directory listings(D) Download all new files found

(S) Scans for files new since your last logon's directory scan

(U) Scans only upload file directory listings

(NS) Displays output in non-stop mode

Description:

Displays file listings based on a date scan of when the file was placed on the system. Matching files are those found which have a date equal to or later than that requested.

Entering an (S) indicates that the last DATE scan or the DATE of the most recent files found on your last scan should be used as the scan date.

Entering a (D) on the command line will cause all files found to be queued up for download on your next (D)ownload command.

Examples:

N A S<ENTER>

This command scans for all new files since last scan

N U S < ENTER >

This command scans for new files in the upload directory

N U 1 D S < ENTER >

This command scans for and downloads new files in directory 1

### [NEWS] File - Redisplay - Function Help

Subcommands:

None

Description:

Re-displays the NEWS file for the message base you are in.

### [OPEN] a Database - Function Help

Subcommands:

(#) or (Name)

(#) Number of the Database to open (Name) Name of the Database to open

Description:

A DOOR is an extension to the bulletin board system. The databases resident on ATTIC are accessed through these DOORs since they are not built directly into the

PCBoard Bulletin Board Software.

Opening a DOOR or Database take you out of PCBoard and into another application. Since there are dozens of DOOR applications available, you should check with the Sysop for questions on which DOORs or Databases are operational and what they

contain.

### [Plage Length - Function Help

Subcommands:

(#)

(#) is a valid number between 0 and 50

Description:

Allows setting of the number of display lines you want to appear on your screen before the software displays a "(H)elp, < ENTER > for More, (N)o More?" prompt

on your screen.

If you select 0 as your page length, you will never pause during any screen display. The default value for this command is 23 lines per page.

### [Oluick Message Scan - Function Help

Çıı	heo	mm	an	de	
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- (#) (F) (Y) (S) (NS) (+) (-) (TS) (USER)
- (#) Any number from 1 to 9999999
- (F) Scans for message headers from you
- (Y) Scans for message headers to you
- (S) Scans for headers above those you have already read
- (NS) Displays text in non-stop mode
- (+) Appended to the end of a number forces the display to be shown in forward order
- (-) Appended to the end of a number forces the display to be shown in reverse order
- (TS) Search message headers for specific text
- (USER) Selects only those messages to or from the specified user

### Description:

Allows viewing a quick description of the message header information available. The display includes the message number, the message reference number (if applicable), who the message is to, who the message is from, and the subject matter of the message. Due to screen width constraints, some fields are shortened for display purposes. Messages which are protected from reading will not be displayed to you.

### Status Flags:

Each message number has a special symbol to its left:

- () A message that can be read by anyone
- (\*) A private message that is unread by the addressee
- (+) A private message that was read by the addressee
- (-) A public message already read by the addressee
- (~) A comment to the SYSOP that has not yet been read
- (') A comment to the SYSOP that the SYSOP has read
- (%) An unread message protected by a SENDER password
- (^) A message protected by a SENDER password
- (!) An unread message protected by a GROUP password
- (#) A message protected by a GROUP password that has been read
- (\$) A message to ALL protected by a GROUP password

### [R]ead a Message - Function Help

Subcommands:

# F Y YA S A ALL L C D Z G J Q NS RM RM+ RM- + - TS SET EDIT NEXT JUMP SKIP USER SELECT DESELECT

- (#) A message number between 1 and 9999999
- (F) Selects only messages left by you
- (Y) Selects only messages left for you

(YA)	Selects only messages left for you or addressed to "ALL"
(S)	Selects messages above the last one you have read
(A)	Read messages in all SELECTed Special Interest Groups (SIGs)
(ALL)	Read messages in all SIGs in which you are registered
(L)	Read in backwards order from the last message to the first
( <b>C</b> )	Capture the messages to a file for download
<b>(D)</b>	Implies a (C)apture and immediately downloads
( <b>Z</b> )	Implies a (D)ownload but compresses the file before goodbye
( <b>G</b> )	Goodbye
<b>(J)</b>	Join another SIG
(Q)	Display only message headers (quick scan mode)
(NS)	Displays text in non-stop mode
(RM)	Re-read previously "memorized" message number
(RM+)	Re-read "memorized" message number plus forward read
(RM-)	Re-read "memorized" message number plus backwards read
(+)	Alone reads messages forward from present position or when
	appended to a number causes forward reading from that message
	number
( <del>-</del> )	Alone reads messages backwards from present position or when
	appended to a number causes backward reading from that message
	number.
(TS)	Searches messages for the specified search criteria
(SET)	Sets the number of the last message read
(EDIT)	Puts the current message into the editor for re-editing
(NEXT)	Reads next higher message number available
(JUMP)	Skips to the next SIG on a (R)ead (A)ll command
(SKIP)	Sets the last message read pointer, skips to the next SIG
(USER)	Selects only those messages to or from the specified user
(SELECT)	Selects the current SIG for future scans
(DESELECT)	Deselects the current SIG for future scans

Description:

Allows reading messages left on the system. All public messages will be displayed, along with private messages left either by you or for you. If a message has more display lines than what your (P)age Length is set for, a "(H)elp, More?" prompt will appear asking for your input. Multiple message numbers to read can be entered on the same command line if desired. Additionally, combinations of the above commands can be entered on the same command line if desired.

Examples:

R S < ENTER > This command will read all mail that is new since you last read mail in

this message base.

R Y S < ENTER > This command will read all mail that is addressed to you that is new since

you last read mail in this message base.

R 1+ < ENTER > This command will read all messages from #1 to the end.

R 1 5 10 20 < ENTER > This command will read messages 1, 5, 10, and 20 and then stop.

### R L < ENTER >

This command will read all mail in reverse order from beginning to end.

## TS A 1+ < ENTER > PCBoard & LANtastic < ENTER >

This command will search through every available message in ALL SIG areas you are set to scan for any message that has both the word "PCBoard" AND the word "LANtastic" in it.

# TS A 1+ < ENTER > PCBoard & (LANtastic | DESQview) < ENTER >

This command will search through every available message in ALL SIG areas you are set to scan for any message that has both the word "PCBoard" AND with the word "LANtastic" OR the word "DESQview" in it.

The parentheses tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parentheses and any combination of ANDs (using the "&" character) and ORs (using the "|" character).

### TS A 1+ USER JOHN DOE < ENTER >

PCBoard & Help < ENTER >

This command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words "PCBoard" and "Help" in them.

### R A Z < ENTER >

This command will capture all messages in all SIGs since the last message read, compress the capture file and then begin the download procedure.

### R SET 100 < ENTER >

This command sets the last message read for that SIG to 100.

### [REPLY] to Messages - Function Help

Subcommands:

(#)

(#) A message number between 1 and 9999999

Description:

Allows replying directly to another message from the main command line. Message numbers can be stacked together if desired.

### [RM] Read Marked Message - Function Help

Subcommands:

None

While there are no subcommands, the (RM) command can take any of three separate forms:

(RM) Read the marked message and stop

(RM+) Read the marked message then continue going forward (RM-) Read the marked message then continue going backward

Description:

When reading messages you can use the (M)ark Message command to tell

the system to remember that number for you so that you can easily go back to it. To return to that Marked Message, you simply issue one of the above three (RM) commands.

Tips:

To re-display and possibly capture the message you are currently reading you could issue a command such as this:

### M RM NS

It first marks the message you are reading, then it re-reads that message in NON-STOP mode. If you wanted to re-read the marked message and then keep going, you could issue the following command:

### MRM+

Note: You must be in the SIG where you marked the message in order for the system to properly locate it.

### [S]cript Ouestionnaire - Function Help

Subcommands:

None

Description:

A script questionnaire is a set of questions that the system operator has set up where the answers that you provide will be recorded in a file for later analysis or processing.

If no questionnaires have been defined, you will be told such and returned to the main command line. If scripts are present, you will be displayed a menu of them, including a number of the choices available. To complete a script, enter the number indicated.

After selecting a valid number, you will be displayed a brief description of what the questionnaire is for and asked whether or not you wish to continue. If you indicate (Y)es, the script will begin execution. During execution, you will be displayed a prompt of one or more lines which will ask you a question, followed by an input field in which you can enter your response. You are limited to a one line response for each question asked. Responses cannot be longer than the brackets shown above the input line. Attempting to exceed the input length will cause the host to send you a BEEP and will pause awaiting either the shortening of your response or the pressing of your <ENTER> key.

### [SELECT] SIGs to Scan - Function Help

Subcommands:

(S) (D) (#) (#-#)

(S) Selects ALL Special Interest Groups (SIGs)

- (D) Deselects ALL SIGs
- (#) Toggles a specific SIG on or off
- (#-#) Toggles a range of SIGs on or off

Description:

The SELECT function is used to tell the system which SIGs you are interested in (or not interested in). It affects the scanning of SIGs when reading or searching for mail.

The command can also be used to reset the Last Message Read pointers in each of the SIGs selected.

Examples:

**SELECT S<ENTER>** 

This command would select ALL SIGs to be scanned or read.

SELECT 1<ENTER>

If SIG #1 was already selected, then it is turned off. If it was not already selected, then it will be turned on and you will be prompted for a new Last Message Read number for that SIG.

SELECT D 1-3 6<ENTER>

This command starts out by deselecting all SIGs after which it reselects SIGs 1 through 3 followed by 6. It will then prompt the caller for any last message read changes in each of the newly selected SIGs.

### [T]ransfer Protocol - Function Help

Subcommands:

None

Description:

Allows setting of a default transfer protocol. The choices of protocols available will vary from system to system based on the protocols which the system operator has enabled. A default of (N)one can also be entered, in which case you will be asked to specify the protocol type each time you begin either an upload or download from the system. If you specify a value here, it will be used as the default each time you request a file transfer. However, this default can be overridden at the time of a file transfer request by including the protocol desired as a separate entry on the same line as the filename is entered (i.e., (filename) (F) would override any default here as specifying 1K-Xmodem Full-Flow protocol).

### [TS] Message Text Search - Function Help

Subcommands:

(F) (Y) (S) (A) (ALL) (L) (C) (D) (Z) (NS) (RM+) (RM-) (##+) (##-) (USER)

- (F) Selects only messages left by you
- (Y) Selects only messages left for you
- (S) Selects messages above the last one you have read
- (A) Scans messages in all SELECTed SIGs

(ALL) Scans messages in all SIGs in which you are registered

(L) Reads in backwards order from the last message to the first

(C) Captures the messages found to a file for download

(D) Implies a (C)apture and immediately downloads

(Z) Implies a (D)ownload but compresses the file before

(NS) Displays text in a non-stop mode

(RM+) Re-reads "memorized" message number plus forward read

(RM-) Re-reads "memorized" message number plus backwards read

(##+) Scans messages from a selected number forward

(##-) Scans messages from a selected number backward

(USER) Selects only those messages to or from the specified user

### Description:

Allows searching the messages on the system to find messages that match the search criteria that you provide.

### Examples:

TS A 1+ <ENTER>
PCBoard & LANtastic
<ENTER>

These commands will search through every available message in ALL SIG areas you are set to scan for any message that has both the word "PCBoard" AND the word "LANtastic" in it.

TS A 1+ <ENTER>
PCBoard & (LANtastic DESQview) <ENTER>

These commands will search through every available message in ALL SIG areas you are set to scan for any message that has both the word "PCBoard" AND either the word "LANtastic" OR the word "DESQview" in it.

The parentheses tell PCBoard how you want to group your criteria if you have a complex search request such as the one above. It will allow for nearly any number of parentheses and any combination of ANDs (using the "&" character) and ORs (using the "|" character).

TS A 1+ USER JOHN DOE <ENTER>
PCBoard & Help <ENTER>

This command (similar to examples above) adds the keyword USER to the command line specifying that only messages that are either TO or FROM John Doe should be displayed if they are found to have both the words "PCBoard" and "Help" in them.

### [U]pload a File - Function Help

Subcommands:

(filename 1) (filename 2) (filename 3) (protocol) (GB or BYE)

(filename)

Any valid DOS filename may be used and more than one filename must be entered if you choose to use a BATCH

protocol for the file transfer

(protocol)

A letter from A-Z of the protocol desired based on the

protocols available

(GB) or (BYE)

Either (GB) or (BYE) may be entered on the command line to indicate that you want the system to hang up after it finishes the file transfer

Description:

Allows transferring a file from your machine to the host system.

There can be up to 26 different types of protocols available. If you have not previously set a default protocol for the system you are calling, you will be asked for the protocol type each time you request an upload. ASCII protocol transfers are only available on non-binary text files.

Due to the wide range of protocols now available, it is suggested you check with the ATTIC system operator if you have a question on which protocols have been implemented and how to properly set your software protocols to match those of ATTIC.

Selecting Files:

Unlike downloading, when uploading a filename must be specified exactly as you intend to send it. In other words, if you type the word "TEST" as the filename, then the name of the file when posted will be called "TEST" with no other extension added to it.

After giving the system one or more filenames to be uploaded you will be asked for a description of each file. Your description can be up to 8 lines long of 45 characters each. If you wish to make a particular file PRIVATE so that it is not posted in the public upload directory, you simply place a "/" at the beginning of the first line of text in your description.

Batch Uploads:

When uploading a batch of files you must enter at least ONE filename even if it is a "dummy" filename. Then on your end you simply tell your software to send all of the desired files. (Note: It is easier to save all of your files to upload under a single subdirectory to upload onto ATTIC or use wildcards to identify all of the files you want to upload.) Any files that are received which you did not specify originally, will then be displayed on the screen and you will be asked to enter a description for each of them.

To send more than one file you must either type **UB** < **ENTER** > as your upload command or type **U** followed by the filenames you want to upload, each separated by a space.

Examples:

U TEST < ENTER > This command uploads TEST using the default protocol.

U TEST X < ENTER > This command uploads TEST using the Xmodem protocol.

TEST2 This command uploads both TEST1 and TEST2 using Ymodem/Batch. U TEST1 Y < ENTER >

### [UB] Upload a Batch - Function Help

See [Ulpload a File

### [W]rite User Database Information - Function Help

Subcommands:

**None** 

Description:

Allows changing some of your database information stored in the system, including:

Your password

Location you are calling from Your business/data phone number A comment field of 30 characters

Choice of having the screen cleared before reading a message The message base areas you want to scan with the "Y A" command

If the Sysop has restricted you to only password changes instead of all of the above, you will only be allowed to change it and not the other items listed.

### [X] Expert/Novice Mode Toggle - Function Help

Subcommands:

None

Description:

The (X) command lets you toggle between Expert and Novice mode. When the Expert mode is active, the main menu is never displayed, and most command line

prompts are considerably abbreviated.

In Novice mode, all menus are displayed and all command line prompts give a more descriptive definition of the commands available.

### [Y]our Mail Check - Function Help

Subcommands:

(A) (ALL) (S) (C) (+) (-) (Q) (L) (NS)

(A) Scans all SELECTed Special Interest Group (SIG) message bases

(ALL) Scans all SIGs in which you are registered

Scans only for mail left since the last message read **(S)** 

**(C)** Limits scan to current message base only

For chronological or (-) for reverse chronological scanning (+)

**(Q)** Display in Quick Scan format

Display in Long Scan format **(L)** 

#### (NS) Displays text output in non-stop mode

Description:

Allows checking for mail left to you or from you in a message base. The above commands can be entered in combination on the same line to limit the scan function as desired. The default for the (Y) command is to scan the current message base only, in reverse direction, checking for mail left by you as well as for mail addressed to you and to scan the complete message base, from the end of the file to the beginning. You can select which areas you want to be scanned when using the (A) subcommand by typing SELECT or by using the (W)rite User Info command.

Ouick Scan:

The Quick Scan format provides a display that looks something like this:

		Messages	Messages
<u>Num</u>	<b>Conference</b>	to You	<b>Found</b>
0	Main Board	0	18
1	Bioremediation	5 .	35
2	FedRemRtable	2	14

Long Scan:

The Long Scan format provides more detail, such as message numbers found, and looks something like this:

Scanning Main Board Msgs For You: None Msgs From You: None # Msgs Found: 18

Scanning Bioremediation (1) Conference Msgs For You: 100 102 110 118

Msgs From You: 89 94

# Msgs Found: 0

Scanning FedRemRtable (2) Conference

Msgs For You: 25 48 Msgs From You: None

# Msgs Found: 0

### [Z]ippy Directory Listing Scan - Function Help

Subcommands:

(text) (#) (A) (D) (N) (S) (U) (NS)

(text) The text you wish to search for Any valid directory number **(#)** 

(A) Scans all directory listings for the text input

**(D)** Download all files found

Combine the search with a date scan (N)

With (N) indicates new files since last date scanned **(S)** Scans only the upload directory(s) for the text (U)

Displays screen output in non-stop mode (NS)

Description:

Allows you to search the download directories for words or phrases either in the filename itself or in the description of the files. For example:

- (D) Will cause all files found to be flagged for later download the next time you issue a (D) download command.
- (N) Combines a new files search with the text search.

Examples:

Z A PCBoard < ENTER >

This command will search all of the file directories for the word "PCBoard" (anywhere—the filename, the description, or even the extended description lines).

Z A < ENTER > PCBoard & DESQview < ENTER >

Z PCBoard A N<ENTER>
120189<ENTER>

This command will search all of the file directories for any file that has both the word "PCBoard" and the word "DESQview" in the description. This command combines text search for the word "PCBoard" with a date search of 12/01/89 or later in searching all of the download directories.

Z DESQview A S D < ENTER >

This command combines the Zippy Directory Scan of the file directories with a "new files since" search and then flags all files found for later downloading.

### Examples of Using Boolean (and/or) Searching

There are numerous places where PCBoard will ask you for some kind of search criteria for the text you want to scan. In those areas you can simply type in a word or phrase, or you may create much more complex searches by using boolean logic symbols in your request.

The symbols "&" and "|" can be used to mean AND or OR, respectively. In addition, you can combine criteria using parentheses to denote the grouping of the search.

The rules below apply at any prompt given where PCBoard wants you to tell it what to scan for so the following rules can be used whether you are scanning through the message base, the download directories, the users file, or the caller logs.

Multiple words making up a sentence or phrase:

PCBoard version 14.5

Searches for the words "PCBoard version 14.5" all together in a line.

Multiple words searching for each word separately:

PCEoard | Qmodem | Procomm

Searches for any text having either PCBoard OR Qmodem OR Procomm anywhere in the text.

Multiple words searching for each word separately requiring ALL to match: PCBoard & Qmodem & Procomm

Searches for any text having ALL THREE words but not necessarily in any order or even next to each other.

Using parentheses for grouping:
DESQview & (PCBoard | Qmodem)

Searches for any text having DESQview in it AND having either PCBoard OR Qmodem also in the same text in any order and not necessarily together.