Vibroacoustic Payload Environment Prediction System (VAPEPS)

VAPEPS Management Center Remote Access Guide

J. P. Fernández
D. Mills

June 15, 1991

Vibroacoustic Payload Environment Prediction System (VAPEPS)

VAPEPS Management Center Remote Access Guide

J. P. Fernández
D. Mills

June 15, 1991

ABSTRACT

A VAPEPS (Vibroacoustic Payload Environment Prediction System) Management Center has been established at the Jet Propulsion Laboratory (JPL). The center utilizes the VAPEPS software package to manage a database of shuttle and expendable launch vehicle payload flight and ground test data. Remote terminal access over telephone lines to the computer system, where the program resides, has been established to provide the payload community a convenient means of querying the global VAPEPS database. This guide describes the functions of the VAPEPS Management Center and contains instructions for utilizing the resources of the center.

PAGE INTENTIONALLY BLANK

PREFACE

This manual is intended to be used as a general guide for accessing the Vibroacoustic Payload Environment Prediction System (VAPEPS) Management Center (VMC) at the Jet Propulsion Laboratory. It describes the resources of the VMC and how to use them effectively. A general knowledge of the VAPEPS program commands and runstreams is assumed.

If there are any problems or suggestions, or if you need additional information, please write:

VAPEPS
c/o Jet Propulsion Laboratory
M/S 301-456
4800 Oak Grove Drive
Pasadena, CA 91109

or call (818) 354-3587
(818) 249-0508

v

TABLE OF CONTENTS

I. INTRODUCTION

A VAPEPS (Vibroacoustic Payload Environment Prediction System) Management Center has been established at the Jet Propulsion Laboratory. The Center utilizes the VAPEPS software package to maintain and update a vibroacoustic database. Lockheed Missiles and Space Company (LMSC) developed the VAPEPS program under the auspices of NASA/Goddard Space Flight Center and the USAF/Space Division.

The VAPEPS software includes theoretical prediction and extrapolation routines based on Statistical Energy Analysis (SEA) methods as well as numerous statistical and mathematical functions. The VAPEPS global database currently contains flight and ground test spectral data, structural parameters, and event descriptions for shuttle and expendable booster payloads. Given the launch vehicle environment, the VAPEPS prediction software can be used with or without a database to establish the vibroacoustic environment of new payload components.

As the Database Administrator for VAPEPS, the Management Center expands the global database, maintains its integrity by reviewing new data sets for accuracy and completeness, and provides convenient access to the database which is stored on a computer system at JPL.

This manual describes the information and procedures required to establish an account on the computer, to access the database using the VAPEPS software, to utilize the VMC functions such as the bulletin board, to maintain and create data files, and to transmit those data files to your local site.

II. GETTING STARTED

The VMC user account provides access to the latest version of the VAPEPS program for accessing the global database. However, VMC users are asked to limit their use of CPU intensive functions and commands. It is suggested that users transfer pertinent data from the JPL global database to their local site and use it with their copy of the VAPEPS program.

Appendix A contains detailed information on how to obtain individual copies of the program on tape. Tapes of the complete database will also be sent upon request. The following documentation is also available from the VMC:

VAPEPS User's Reference Manual

VAPEPS Workshop User's Guide

A VAPEPS TUTORIAL: Creating a Database

VAPEPS Workshop Notes

Periodic VAPEPS Workshops are also offered at JPL. The workshops consist of lectures, detailed program instructions and hands-on practice. Information about documentation and future workshops can be obtained from:

VAPEPS
Jet Propulsion Laboratory
M/S 301-456
4800 Oak Grove Dr.
Pasadena, CA 91109

or call (818) 354-3587
(818) 249-0508

III. ACCESSING THE COMPUTER SYSTEM

The VAPEPS program and database are stored on a UNIX-based computer system located at JPL. The database files on this system can be accessed by one of two methods: by means of the FTP (file transfer protocol) program or by dialing into the JPL system on a modem. In either case, an authorized account on this system is required. If the remote user desires to access the JPL system by modem, the appropriate hardware and software at the remote user's location are also necessary.

A. Obtaining An Account

Each individual who wants to access the database will be given access to a VAPEPS remote-user id and password which will allow him/her to log on to the computer system. This single account is shared by all remote VAPEPS users, since the intent is to provide limited access rather than a regular user account. To obtain the user id and password, fill out and mail the request form in Appendix A or contact JPL directly at the phone number listed.

B. Required Hardware

Table 1 consists of a list of typical termcaps that are supported by the VAPEPS computer system (not an exhaustive list). You should try a termcap that most closely resembles your terminal type. If an unknown terminal type is specified when logging onto the system, the system will default to the vt100 termcap. A Tektronix graphics terminal or Tektronix emulation is required for graphics display. If you are using an IBM PC or compatible system to access the database, a good choice is vt100 emulation with the PC running PC-PLOT as the communications software. PC-PLOT also has Tektronix 4010 emulation. If you are using a Macintosh, VersaTerm PRO is recommended. It utilizes the Kermit protocol and emulates vt100, tek 4105 and 4014 terminals.

2

C.   Phone Numbers

There are currently four phone lines available for dialing into the computer system. Two phone lines use Hayes Smartmodems for communication at a speed of 1200 baud, while the other two lines use Telebit Trailblazer modems for communication at speeds up to 9600 baud. To take advantage of the Telebit's highest speed, the same modem will be required at your local site. The Telebit will also automatically sync up to Bell 103 or 212A compatible modems running at 300 or 1200 baud, respectively. The phone lines and computer system are available on a continuous basis, 24 hours per day, 7 days per week, except for maintenance periods. The numbers to dial are:

> (818) 393-6518 (Telebit)
> (818) 393-6519 (Telebit)
> (818) 393-6618
> (818) 393-6619

Communication parameters are: 7 bit data words, even parity, 1 stop bit. Call waiting on your phone will disrupt the carrier causing loss of communications. It is recommended that only phone lines without this feature be used.

D.   Logging On

After dialing one of the four phone numbers and connecting with a modem to the VAPEPS computer, a login prompt will be displayed on your terminal. It may be necessary to enter several carriage returns to clear spurious characters which may interfere with initial communications. At the prompt, type your user id (in lower case letters) and a carriage return. Type your password at the password prompt. For security reasons, your password will not be displayed on your screen.

> login: user id
> password:

The computer will then prompt you for a terminal type:

> terminal type?

You must type in a "termcap" at the prompt. A "termcap" from the limited list in Table 1 on page 4 can be used. (A carriage return will not produce a response.) The computer will then reply:

> term type set to "your term type"
>
> $

3

The $ is the system prompt. A note to VAX/VMS users: even though the system prompt is the same as that of VMS, the two systems are very different and do not share the same commands. If you type in an unknown terminal type, the computer will reply:

```
unknown terminal
term set to vt100
$
```

At this point (at the $ prompt) you can execute VAPEPS or use the VMC system utilities described in Section IV.

E.   Logging Off

To end a terminal session, type <ctrl> <d> (hold down the control key while typing the letter d).

        $ <ctrl> <d>

You can then disconnect the modem and hang up the phone.

Table 1. Typical Termcaps

ansi
arpanet
dumb
mac
macintosh
tvi
tvi920b
tvi920c
vanilla
vt100
vt52
vt200
vt220

IV.   VAPEPS MANAGEMENT SYSTEM RESOURCES AND COMMANDS

VAPEPS is operational on a SUN 4/390 computer using the UNIX operating system. This manual does not attempt to provide instructions on how to use UNIX. There are many good references on the subject, including:

The UNIX Programming Environment, B.W. Kernighan and R. Pike, Prentice-Hall Inc., New Jersey, 1984.

Introducing the UNIX System, H. McGilton and R. Morgan, McGraw-Hill, New York, 1983.

A User Guide to the UNIX System, 2nd edition, Dr. R. Thomas and J. Yates, Osborne McGraw-Hill, Berkeley, California, 1985.

The commands that are available to users of the VMC are a restricted subset of those available in UNIX. A list of these commands and a brief description of each are given in Appendix B. Appendix B and the remainder of this manual describe all the details of UNIX that you will need to fully utilize the VAPEPS computer system. You may want to refer to a UNIX reference book if you are interested in more information.

Some of the more important utilities are described in detail in the following sections.

A.   Bulletin Board

A bulletin board has been set up so that users can exchange messages and information. To have a message "posted" on the bulletin board, use the following command:

```
$ post
  message                    - message you'd like posted
  ctrl-d                     - end the message
$
```

Messages "posted" about the VAPEPS program can be read by typing:

```
$ more .bboard              - invokes the UNIX "more" command: see
                              Appendix B
```

5

B.   FTP (File Transfer Protocol)

If the remote user's computer is connected to the "Internet" network, it is possible to directly access the JPL computer system and electronically transfer the desired files from the JPL system to the remote system in a fraction of the time it would take by modem. The remote user's system manager should be consulted as to whether or not this is the case.

If the remote user's computer is hooked up to "Internet", a standard utility called FTP (File Transfer Protocol) can be invoked to transfer the files.

If you are interested in accessing the JPL system using FTP, please contact the JPL VMC and ask for details.

C.   Kermit

Kermit is a communication and error checking program for file transfer between computer systems. The software is non-proprietary and is available for a number of mainframes as well as IBM-PC's and PC compatibles. The VAPEPS computer is running C-Kermit, Version 4.2. For specifics about your system's version of Kermit, consult your system administrator.

To use the program for file transfer, you will need to have a version of Kermit running on your local machine and a modem which can be used to dial out through your host (local) computer to the VAPEPS system. To access Kermit:

1.   Start Kermit running on your local machine.

2.   Use the Kermit dial command (or your system's equivalent) to dial one of the 4 phone numbers to the VAPEPS system.

3.   Use the Kermit connect command to connect to the VAPEPS system. At this point, a login prompt will be displayed. You may need to type several carriage returns to get to the prompt.

4.   Login to the VAPEPS computer as you normally would.

5.   Start Kermit on the VAPEPS system:

$ kermit

6.   At the C-Kermit prompt, type **server**:

C-Kermit > server

7. Disconnect from the VAPEPS system Kermit by typing the escape sequence for your system to close the connection. At this point, you should be connected to your local system's Kermit.

8. Use the Kermit **get** command (or your system's equivalent) to get the files you want to transfer:

>   yourKermit > get filename(s)

9. When all files have successfully been transferred, type **finish**, then reconnect to the VAPEPS system using the **connect** command. The remote Kermit server will display:

>   C-Kermit > server done

10. **exit** from the remote Kermit:

>   C-Kermit > exit

11. Log off the VAPEPS computer as you normally would.

12. Type the escape sequence for your system to return to your local Kermit.

13. **exit** your local Kermit.

The communication parameters for the JPL computer system are:

-   7 bit data words
-   even parity
-   1 stop bit

These parameters should be set when you start up and initialize Kermit on your local computer.

V. VAPEPS PROGRAM EXECUTION AND OPERATIONS

The <u>VAPEPS Workshop User's Guide</u> is a good starting point for new or infrequent VAPEPS users. Listed below are some of the functions available to remote terminal users.

      1.   VAPEPS on-line **help** utility.
      2.   Prediction Commands.
      3.   Database search and retrieval commands.
      4.   Data conversion/manipulation commands.

The specific commands associated with each of the four operations listed above are described in detail in the <u>VAPEPS Workshop User's Guide</u>. If you attempt to execute a command that is not recognized, VAPEPS will display the message: 'command not found'.

A. Executing and Terminating VAPEPS

To start execution of the program interactively, type **vapeps** at the system prompt:

```
$ vapeps
?                                    - VAPEPS prompt
.

.

(commands)
.

.

.
? end                                - to terminate execution
$
```

B. File Assignment and Naming Conventions

The UNIX operating system makes a distinction between upper and lowercase letters in commands and filenames. The convention is for all UNIX commands to be lowercase. DATA, Data, data, however, are 3 different names. FORTRAN units are denoted by the names fort.1, fort.2, ..., fort.99. The VAPEPS program makes no case distinction, except when referring to external files.

Within VAPEPS, data file names are assigned to integers from 1 to 99 called "DAL" units (completely analogous to FORTRAN file units). VAPEPS equates its own internal file names to these numbers, unless you specify otherwise using the **fname** command (for more information on the **fname** command, see the <u>VAPEPS User's Reference Manual</u>). To make the assignment use the following syntax:

? fname 1, 'My.dal'

8

Remember to type the file name ('My.dal' in this example) exactly as it appears in the UNIX directory listing, since UNIX distinguishes between lower and uppercase characters.

It is recommended that DAL files have '.dal' appended to their names so that users can distinguish between them and non-VAPEPS files. Please remember that DAL files cannot be viewed or edited with **more, cat, vi,** etc.

C.   File Maintenance

The VAPEPS scratch files, **DAL028** and **DAL014,** tend to grow with time. Data files, FORTRAN files and other DAL files also tend to accumulate rapidly. Please review the files in your directory on a regular basis and delete those that are unwanted or unused. Files that have not been accessed for over 30 days will automatically be removed by the system administrator unless other arrangements are made.

VI.   VAPEPS DATABASE

The VAPEPS database currently consists of 6 DAL files containing spectral data and structural parameters for over 60 events. The 6 DAL files are called:

/home/zeta/vapeps/db/LMSCDB1
/home/zeta/vapeps/db/LMSCDB2
/home/zeta/vapeps/db/LMSCDB3
/home/zeta/vapeps/db/LMSCDB4
/home/zeta/vapeps/db/LMSCDB5
/home/zeta/vapeps/db/LMSCDB6

Table 2 lists all the events and their corresponding filenames. A brief description of each event is contained in Appendix C.

JPL will be updating the database with ground test and flight data from new payloads. JPL is also soliciting data from the aerospace community. If you or your organization has data which you would like to see included in the database, please contact JPL at the address given in the preface. Someone from JPL will work with you to establish the specific requirements for data input formats, structural parameters, SEA models, etc.

JPL reviews each event for accuracy before it is added to the database. If, however, you discover what appears to be a discrepancy, please let us know so that it can be rechecked and corrected if necessary.

Table 2. Database Events and Filenames

	PROC AGENCY	PROJECT	PROGRAM	ID
1.	LMSCLVET7640	CS3	ACOTAEN	P8A2
	FILE: /home/zeta/vapeps/database/LMSCDB1			
2.	LMSCLVET7640	CS3	ACOATEN	P8A0
	FILE: /home/zeta/vapeps/database/LMSCDB1			
3.	LMSCLVET7640	CS3	ACOATEN	P8A6
	FILE: /home/zeta/vapeps/database/LMSCDB1			
4.	LMSCLVET7640	P244	*	YPAN
	FILE: /home/zeta/vapeps/database/LMSCDB1			
5.	LMSCLVET7640	*	*	SP01
	FILE: /home/zeta/vapeps/database/LMSCDB2			
6.	LMSCLVET7640	P950A	SVAC	AC14
	FILE: /home/zeta/vapeps/database/LMSCDB2			
7.	LMSCLVET7640	P950A	SVAC	AC15
	FILE: /home/zeta/vapeps/database/LMSCDB2			
8.	LMSCLVET7640	P950A	SPAT*PH2TST1	ST21
	FILE: /home/zeta/vapeps/database/LMSCDB2			
9.	LMSCLVET7640	P950A	SPAT*PH1TST1	ST11
	FILE: /home/zeta/vapeps/database/LMSCDB2			
10.	LMSCLVET7640	P950A	SPAT*PH2TST4	ST24
	FILE: /home/zeta/vapeps/database/LMSCDB2			
11.	LMSCLVET7640	P950A	SVAC	AC17
	FILE: /home/zeta/vapeps/database/LMSCDB2			
12.	LMSCLVET7640	P950A	SVAC	AC13
	FILE: /home/zeta/vapeps/database/LMSCDB2			
13.	LMSCLVET7640	P950A	SSAT	APSA
	FILE: /home/zeta/vapeps/database/LMSCDB2			
14.	LMSCCNTL1933	P950A	*	F237
	FILE: /home/zeta/vapeps/database/LMSCDB2			

Table 2. Data Base Events and Filenames (cont.)

	PROC AGENCY	PROJECT	PROGRAM	ID
15.	LMSCLVET7640	P950A	SSAT	OR14
	FILE: /home/zeta/vapeps/database/LMSCDB2			
16.	LMSCLVET7640	P950A	SSQT	APSQ
	FILE: /home/zeta/vapeps/database/LMSCDB2			
17.	LMSCLVET7640	P950A	SSAT	ARMC
	FILE: /home/zeta/vapeps/database/LMSCDB2			
18.	LMSCCNTL1933	P950A	*	F109
	FILE: /home/zeta/vapeps/database/LMSCDB2			
19.	LMSCCNTL1933	P950A	*	F209
	FILE: /home/zeta/vapeps/database/LMSCDB2			
20.	LMSCCNTL1933	P950A	*	F137
	FILE: /home/zeta/vapeps/database/LMSCDB2			
21.	LMSCCNTL1933	P950A	SVAC	T709
	FILE: /home/zeta/vapeps/database/LMSCDB2			
22.	LMSCCNTL1933	P950A	SVAC	T737
	FILE: /home/zeta/vapeps/database/LMSCDB2			
23.	LMSCLVET7640	P950A	SPAT*PH1TST2	ST12
	FILE: /home/zeta/vapeps/database/LMSCDB2			
24.	LMSCLVET7640	P950A	SPAT*PH2TST3	ST23
	FILE: /home/zeta/vapeps/database/LMSCDB2			
25.	LMSCLVET7640	P950A	SPAT*PH3TST2	ST32
	FILE: /home/zeta/vapeps/database/LMSCDB2			
26.	LMSCCNTL1933	P950A	SVQT	SQTO
	FILE: /home/zeta/vapeps/database/LMSCDB2			
27.	LMSCCNTL1933	P950A	SVQT	SQTJ
	FILE: /home/zeta/vapeps/database/LMSCDB2			
28.	LMSCLVET7640	P950A	SVAC	AC18
	FILE: /home/zeta/vapeps/database/LMSCDB2			

Table 2. Data Base Events and Filenames (cont.)

	PROC AGENCY	PROJECT	PROGRAM	ID
29.	LMSCLVET7640	P950A	SSAT	NPAC
	FILE: /home/zeta/vapeps/database/LMSCDB2			
30.	LMSCLVET7640	P950A	SSAT	NIH2
	FILE: /home/zeta/vapeps/database/LMSCDB2			
31.	LMSCLVET7640	P950A	SSAT	S772
	FILE: /home/zeta/vapeps/database/LMSCDB2			
32.	LMSCCNTL1933	P950A	SSQT	MDUL
	FILE: /home/zeta/vapeps/database/LMSCDB2			
33.	LMSCCNTL1933	P950A	*	F131
	FILE: /home/zeta/vapeps/database/LMSCDB2			
34.	LMSCCNTL1933	P950A	*	F231
	FILE: /home/zeta/vapeps/database/LMSCDB2			
35.	LMSCLVET7640	P252	SVDT	IAT3
	FILE: /home/zeta/vapeps/database/LMSCDB3			
36.	LMSCLVET7640	P252	SVDT	P905
	FILE: /home/zeta/vapeps/database/LMSCDB3			
37.	LMSCLVET7640	P252	SVQT	P906
	FILE: /home/zeta/vapeps/database/LMSCDB3			
38.	LMSCCNTL1933	IR&D	C8EK	ID09
	FILE: /home/zeta/vapeps/database/LMSCDB4			
39.	LMSCCNTL1933	IR&D	C8EK	ID03
	FILE: /home/zeta/vapeps/database/LMSCDB4			
40.	LMSCLVET7640	IR&D	C8EK	ID04
	FILE: /home/zeta/vapeps/database/LMSCDB4			
41.	LMSCLVET7640	IR&D	C8EK	ID05
	FILE: /home/zeta/vapeps/database/LMSCDB4			
42.	LMSCLVET7640	IR&D	C8EK	ID06
	FILE: /home/zeta/vapeps/database/LMSCDB4			

Table 2. Data Base Events and Filenames (cont.)

	PROC AGENCY	PROJECT	PROGRAM	ID
43.	LMSCLVET7640	IR&D	C8EK	ID07
	FILE: /home/zeta/vapeps/database/LMSCDB4			
44.	LMSCLVET7640	IR&D	C8EK	ID08
	FILE: /home/zeta/vapeps/database/LMSCDB4			
45.	LMSCCNTL1933	IR&D	C8EK	ID16
	FILE: /home/zeta/vapeps/database/LMSCDB4			
46.	LMSCCNTL1933	IR&D	C8EK	ID11
	FILE: /home/zeta/vapeps/database/LMSCDB4			
47.	LMSCCNTL1933	IR&D	C8EK	ID15
	FILE: /home/zeta/vapeps/database/LMSCDB4			
48.	LMSCCNTL1933	IR&D	C8EK	ID21
	FILE: /home/zeta/vapeps/database/LMSCDB4			
49.	LMSCCNTL1933	IR&D	C8EK	ID22
	FILE: /home/zeta/vapeps/database/LMSCDB4			
50.	LMSCLVET7640	SPACE-TEL	STDV	STD1
	FILE: /home/zeta/vapeps/database/LMSCDB5			
51.	LMSCLVET7640	SPACE-TEL	STDV	
	FILE: /home/zeta/vapeps/database/LMSCDB5			
52.	LMSCLVET7640	SPACE-TEL	C85A	EAT3
	FILE: /home/zeta/vapeps/database/LMSCDB5			
53.	LMSCLVET7640	SPACE-TEL	C85A	EAT2
	FILE: /home/zeta/vapeps/database/LMSCDB5			
54.	LMSCLVET7640	SPACE-TEL	C85A	EAT5
	FILE: /home/zeta/vapeps/database/LMSCDB5			
55.	LMSCLVET7640	SPACE-TEL	C85A	EAT6
	FILE: /home/zeta/vapeps/database/LMSCDB5			
56.	LMSC	OEX	DATE	OSSL
	FILE: /home/zeta/vapeps/database/LMSCDB5			

Table 2. Data Base Events and Filenames (cont.)

	PROC AGENCY	PROJECT	PROGRAM	ID
57.	LMSC	OEX	DATE	OSST
	FILE: /home/zeta/vapeps/database/LMSCDB5			
58.	AEROSPACE	OEX	DATE	STSI
	FILE: /home/zeta/vapeps/database/LMSCDB5			
59.	AEROSPACE	OEX	DATE	STSL
	FILE: /home/zeta/vapeps/database/LMSCDB5			
60.	AEROSPACE	OEX	DATE	STST
	FILE: /home/zeta/vapeps/database/LMSCDB5			
61.	NASA-GSFC	OEX	SYS-GRD-TST	OSSG
	FILE: /home/zeta/vapeps/database/LMSCDB5			
62.	BOEING	IUS	IUS-STS	RP1
	FILE: /home/zeta/vapeps/database/LMSCDB6			
63.	BOEING	IUS	IUS-STS	RP2
	FILE: /home/zeta/vapeps/database/LMSCDB6			
64.	BOEING	IUS	IUS-6	I6T
	FILE: /home/zeta/vapeps/database/LMSCDB6			
65.	NASA-GSFC	ERBS	ACOUSTICTEST	ERBS
	FILE: /home/zeta/vapeps/database/LMSCDB6			
66.	ROCKWELL	NAVSTAR	QPS-QTV	GPSA
	FILE: /home/zeta/vapeps/database/LMSCDB6			
67.	ROCKWELL	NAVSTAR	GPS-QTV	GPSQ
	FILE: /home/zeta/vapeps/database/LMSCDB6			
68.	GE	DSCSIII	ACOU-QUAL	DSCS
	FILE: /home/zeta/vapeps/database/LMSCDB6			

APPENDIX A

Computer Access and Tape Request Form

VAPEPS MANAGEMENT CENTER
JET PROPULSION LABORATORY

Request for VAPEPS Program and Database Tapes

A written request on company letterhead, accompanied by a blank, 9 track, 1/2 inch magnetic tape (2400 ft.), certified to 1600 bpi, is required to obtain a copy of the program. A second tape, with the same specifications, is required for the Database. Please specify which computer system your organization will be using: VAX (VMS), SUN (UNIX), etc.

If you would like to obtain a copy of the VAPEPS program and/or database, use of the FTP program is encouraged, since it is much faster than mailing tapes.

To receive the remote access user id and password, fill out the Database Access Form and mail to the address below.

Please return the Database Access Form and requests for tapes to:

VAPEPS
Jet Propulsion Laboratory
M/S 301-456
4800 Oak Grove Drive
Pasadena, CA 91109

or call (818) 354-3587
(818) 249-0508

DATABASE ACCESS FORM

Organization:_____

Address: _____

_____

_____

User #1: Name _____

Mail Stop_____Phone_____

User #2: Name _____

Mail Stop_____Phone_____

APPENDIX B

UNIX Commands

UNIX COMMANDS

All UNIX commands are in lowercase letters.

1. **cat**:   concatenate files (to link together in series)

   example:

cat file1	- prints file1 on standard output (terminal)
cat file1>file2	- cats file1 and overwrites file2
cat file1>>file 2	- appends file1 to file2

2. **cp**:   restricted copy command

   example:

cp file1 file2	- makes a copy of file1 called file2

3. **date**:   returns current date and time

4. **echo**:   prints its arguments on the screen

5. **file**:   returns the file type on the screen

   example:

file file1	- displays file type (i.e., ASCII text, data, commands text, executable, etc.)

6. **head**:   prints 1st 10 lines of file on the screen

   example:
   head file1

7. **ls**:   list

   example:

ls	- lists files in current directory
ls -l	- detailed (long) version of ls

8.   **more:** View a file a page at a time. To see the next line, hit a carriage return. To see another full page, hit the space bar. To quit press q.

example:
more file1 file2 file3   - view 3 files one page at a time in consecutive order

9.   **ps:**   process status

example:
ps   - prints the status of the processes associated with your terminal

ps -a   - prints the status of processes associated with all terminals

10.   **pwd:**   print working directory

11.   **rm:**   restricted remove command.

12.   **tail:** prints last 10 lines of a file

tail file1

13.   **who:**   displays information about users who are currently logged on to the system

14. **whoami:** returns login name

In addition to the above commands, there is the **vi** screen editor, a synopsis of which follows.

The UNIX **vi** editor is a screen-oriented editor available on the VAPEPS computer system for creating/editing files. It is invoked from the UNIX command prompt by typing:

$ vi somefile

where "somefile" is the name of the file to edit. If you have your "termcap" set correctly (see **Table 1.**), the screen will clear and a row of tilde characters ('~') will appear in a line down the left edge of your screen. If not, a highlighted bar will appear beneath the last line, stating:

(your current termcap): Unknown terminal type
Using open mode
:

or

(your current termcap): Unknown terminal type
Visual needs addressable cursor or upline capability
:

In such a case, the cursor will sit to the right of the colon prompt (':'). Exit **vi** by pressing the **q** key and the <RETURN> or <ENTER> key. Reset your termcap, choosing another termcap from **Table 1.**, and try to invoke **vi** again.

If you need to reset the termcap, use the following commands (do not include the ()'s around your termcap):

$ set TERM=(your new termcap)
$ export TERM

vi is partly command-oriented and partly mode-oriented. This means that certain editing tasks are accomplished by pressing keys which put **vi** into a "mode" (like an "insert" mode), and other tasks are carried out by typing certain simple commands (delete one or more words, for example).

Here is an example of how to create a text file, add some text and save the file:

$ vi filename
i   -   This puts vi in "insert" mode. To quit
                                      "insert" mode, press the <ESC> key.

Your text goes here, just as you
want it to appear in the file...etc.,
etc.,
                               -      When you want to quit and save the file,
                                      hold down the <SHIFT> key and press
                                      the **z** key twice (type **ZZ**). This will return
                                      you to the UNIX prompt.
$

The following is a synopsis of **vi** commands/modes. The letter (or letters) to the right of the indicated options mean they are invoked by pressing one or more keys. (An important note: none of the character sequences invoking the commands should appear on the screen; if they do, you are in "insert" mode and need to quit before issuing the command.)

How to Move Around (commands):

Character left	h
Character down	j
Character up	k
Character right	l, <SPACE>

Word right	w
Word left (back)	b
Beginning of line, next line	<RETURN> or <ENTER>

Adding/Inserting Text (mode):

Insert	i
Exiting Insert mode	<ESC>

Deleting (commands):

Character	x
Word	dw
Delete to end of line from current position	D

Recovering from Mistakes (commands):

Undo last command	u
Undo all changes to current line	U
Start whole editing session afresh	:e!<RETURN> or <ENTER>
Quit without saving	:q!<RETURN> or <ENTER>

Quitting and Saving (command):

Exit and save	ZZ

INTERNATIONAL

APPENDIX C

Database Event Descriptions

SUMMARY OF EVENT P8A2

P8A2   FAIRING ACO ATTENUATION TEST REVERBERANT EXCITATION LVET CELL 1
P8A2   UPLF FAIRING WITH FULL SET OF ACO ATTENUATION BLANKETS
P8A2   TEST STRUCTURE MOUNTED WITH MASS SIMULATED EQUIPMENT
P8A2   BOX PANEL EQUIPMENT MOUNTING STRUCTURE

Processing	LMSCLVET7640	CS3	ACOTAEN	P8A2
Contracting	*	CS3	*	P8A2
Cognizant	*	*	*	P8A2
Date	11/01/75			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		Vehicle

SUMMARY OF EVENT P8A0

P8A0   FAIRING ACO ATTENUATION TEST REVERBERANT EXCITATION LVET CELL 1
P8A0   UPLF FAIRING, NO BLANKETS, FAIRING FILLED WITH 90 PERCENT HELIUM
P8A0   TEST STRUCTURE MOUNTED WITH MASS SIMULATED EQUIPMENT
P8A0   BOX PANEL EQUIPMENT MOUNTING STRUCTURE

Processing	LMSCLVET7640	CS3	ACOATEN	P8A0
Contracting	*	CS3	*	P8A0
Cognizant	*	*	*	P8A0
Date	11/01/75			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT P8A6

P8A6   FAIRING ACO ATTENUATION TEST REVERBERANT EXCITATION LVET CELL 1
P8A6   UPLF FAIRING WITHOUT BLANKETS
P8A6   TEST STRUCTURE MOUNTED WITH MASS SIMULATED EQUIPMENT
P8A6   BOX PANEL EQUIPMENT MOUNTING STRUCTURE

Processing	LMSCLVET7640	CS3	ACOATEN	P8A6
Contracting	*	CS3	*	P8A6
Cognizant	*	*	*	P8A6
Date	11/01/75			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT YPAN

YPAN   +Y PANEL ACOUSTIC TEST
YPAN   MODULE CHAMBER TEST CELL
YPAN   ACTUAL EQUIPMENT ITEMS
YPAN   HONEYCOMB PANEL MOUNTING STRUCTURE

Processing	LMSCLVET7640	P244	*	YPAN
Contracting	LMSC*SSD6001	P244	*	YPAN
Cognizant	AFSC	*	*	YPAN
Date	07/05/79			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER			

SUMMARY OF EVENT SP01

SPAT 1 ACOUSTIC TEST, LVET FILE#395-R2, TEST 4 RUN 1,W/O AGE
REVER AND INT MICS NEED RANDOM INCIDENCE CORRECTIONS, SEE CHAN 'MCOR' DATA PROVIDES
NOISE REDUCTION CHARACTERISTICS OF LMSC'S 10FT DIA CORRUGATED FAIRING, DIRECT AND
REVERBERANT ACOUSTIC EXCITATION

Processing	LMSCLVET7640	*	*	SP01
Contracting				
Cognizant				
Date	3/25/71			
Time	00:00:22.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle				

SUMMARY OF EVENT AC14

ACOUSTIC TEST REVERBERANT EXCITATION LVET CELL1

10 FT DIAMETER CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
AND WIRE HARNESSES

Processing	LMSCLVET7640	P950A	SVAC	AC14
Contracting	LMSC*SSD6001	P950A	SVAC	AC14
Cognizant	AFSC	*	*	AC14
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT AC15

ACOUSTIC TEST REVERBERANT EXCITATION LVET CELL1

10 FT DIAMETER CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
AND WIRE HARNESSES

Processing	LMSCLVET7640	P950A	SVAC	AC15
Contracting	LMSC*SSD6001	P950A	SVAC	AC15
Cognizant	AFSC	*	*	AC15
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ST21

SPAT2-PHASE2-TEST1,FULLY REVERBERANT ACOU. TEST
LVET CELL1,-3DB RUN,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT
REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH2TST1	ST21
Contracting	LMSC*SSD6001	P950A	SPAT*PH2TST1	ST21
Cognizant	AFSC	*	*	ST21
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ST11

SPAT2-PHASE1-TEST1,DIRECT RADIATION REVERBERANT ACOU. TEST
LVET CELL1,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT
BASELINE, REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH1TST1	ST11
Contracting	LMSC*SSD6001	P950A	SPAT*PH1TST1	ST11
Cognizant	AFSC	*	*	ST11
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SPAT2-PHASE2-TEST4,FULLY REVERBERANT ACOU. TEST
LVET CELL1,+3DB RUN,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT
REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH2TST4	ST24
Contracting	LMSC*SSD6001	P950A	SPAT*PH2TST4	ST24
Cognizant	AFSC	*	*	ST24
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT AC17

ACOUSTIC TEST REVERBERANT EXCITATION LVET CELL1

10 FT DIAMETER CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
AND WIRE HARNESSES

Processing	LMSCLVET7640	P950A	SVAC	AC17
Contracting	LMSC*SSD6001	P950A	SVAC	AC17
Cognizant	AFSC	*	*	AC17
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT AC13

ACOUSTIC TEST REVERBERANT EXCITATION LVET CELL1

10 FT DIAMETER CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
AND WIRE HARNESSES

Processing	LMSCLVET7640	P950A	SVAC	AC13
Contracting	LMSC*SSD6001	P950A	SVAC	AC13
Cognizant	AFSC	*	*	AC13
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT APSA

REVERBERANT ACCEPTANCE TEST
LVET CELL1, 1 MIN RUN
ACTUAL EQUIPMENT AND WIRE HARNESSES
TESTED ON HANDLING DOLLY

Processing	LMSCLVET7640	P950A	SSAT	APSA
Contracting	LMSC*SSD6001	P950A	SSAT	APSA
Cognizant	AFSC	*	*	APSA
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT F237

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

Processing	LMSCCNTL1933	P950A	*	F237
Contracting	LMSC*SSD6001	P950A	*	F237
Cognizant	AFSC	*	*	F237
Date				
Time	00:00:39.5			
Event				
Location				
Vehicle	BOOSTER			

SUMMARY OF EVENT OR14

ACOUSTIC TEST REVERBERANT EXCITATION LVET CELL2

OAM/RCM14 WITH ARRAYS
TEST STRUCTURE MOUNTED WITH REAL EQUIP
AND WIRE HARNESSES

Processing	LMSCLVET7640	P950A	SSAT	OR14
Contracting	LMSC*SSD6001	P950A	SSAT	OR14
Cognizant	AFSC	*	*	OR14
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-2		
Vehicle	BOOSTER	*	OAM/RCM	

SUMMARY OF EVENT APSQ

REVERBERANT QUALIFICATION TEST
LVET CELL1, 3 MIN. RUN
ACTUAL EQUIPMENT AND WIRE HARNESSES
TESTED ON HANDLING DOLLY

Processing	LMSCLVET7640	P950A	SSQT	APSQ
Contracting	LMSC*SSD6001	P950A	SSQT	APSQ
Cognizant	AFSC	*	*	APSQ
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ARMC

ACOUSTIC TEST, REVERBERANT EXCITATION MODULE TEST CHAMBER
TEST PERFORMED IN THE BAY AND THE TWO HALVED STRUCTURE
ANALYTICAL MODEL OF THE ARMM
MODULE EXISTS

Processing	LMSCLVET7640	P950A	SSAT	ARMC
Contracting	LMSC*SSD6001	P950A	SSAT	ARMC
Cognizant	AFSC	*	*	ARMC
Date	01/04/78			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER			

SUMMARY OF EVENT F109

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

Processing	LMSCCNTL1933	P950A	*	F109
Contracting	LMSC*SSD6001	*	*	F109
Cognizant	AFSC	*	*	F109
Date				
Time	00:00:02.5			
Event				
Location				
Vehicle	BOOSTER			

SUMMARY OF EVENT F209

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

Processing	LMSCCNTL1933	P950A	*	F209
Contracting	LMSC*SSD6001	P950A	*	F209
Cognizant	AFSC	*	*	F209
Date				
Time	00:00:49.0			
Event				
Location				
Vehicle	BOOSTER			

SUMMARY OF EVENT F137

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

Processing	LMSCCNTL1933	P950A	*	F137
Contracting	LMSC*SSD6001	P950A	*	F137
Cognizant	AFSC	*	*	F137
Date				
Time	00:00:03.5			
Event				
Location				
Vehicle	BOOSTER			

SUMMARY OF EVENT T709

DIRECT RADIATION-REVERBERANT ACOU. TEST
LVET CELL1
ACTUAL EQUIPMENT AND WIRE HARNESSES, CORRUGATED SHROUD
FM DATA ACQUISITION

Processing	LMSCCNTL1933	P950A	SVAC	T709
Contracting	LMSC*SSD6001	P950A	SVAC	T709
Cognizant	AFSC	*	*	T709
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT T737

DIRECT RADIATION-REVERBERANT ACOU. TEST
LVET CELL1
ACTUAL EQUIPMENT AND WIRE HARNESSES, CORRUGATED SHROUD
FM DATA ACQUISITION

Processing	LMSCCNTL1933	P950A	SVAC	T737
Contracting	LMSC*SSD6001	P950A	SVAC	T737
Cognizant	AFSC	*	*	T737
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ST12

SPAT2-PHASE1-TEST2,DIRECT RADIATION REVERBERANT ACOU. TEST
LVET CELL1,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT
BASELINE REPEAT, REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH1TST2	ST12
Contracting	LMSC*SSD6001	P950A	SPAT*PH1TST2	ST12
Cognizant	AFSC	*	*	ST12
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ST23

SPAT2-PHASE2-TEST3,FULLY REVERBERANT ACOU. TEST
LVET CELL1,NOMINAL RUN,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT
REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH2TST3	ST23
Contracting	LMSC*SSD6001	P950A	SPAT*PH2TST3	ST23
Cognizant	AFSC	*	*	ST23
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ST32

SPAT2-PHASE3-TEST2,FULLY REVERBERANT ACOU. TEST
LVET CELL1,35 SEC. RUN, NO CELL PURGE
CORRUGATED SHROUD, ACTUAL EQUIPMENT, AGE EQUIPMENT ON
10 HZ PSD ANALYSIS, REFER TO LMSC/D343946 SS-1524-6262

Processing	LMSCLVET7640	P950A	SPAT*PH3TST2	ST32
Contracting	LMSC*SSD6001	P950A	SPAT*PH3TST2	ST32
Cognizant	AFSC	*	*	ST32
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT SQTO

OCTES, DIRECT RADIATION REVERBERANT ACOU. QUALIFICATION TEST
LVET CELL1, 3 MIN. RUN, CELL PURGED
CORRUGATED SHROUD, ACTUAL EQUIPMENT
10 HZ PSD ANALYSIS

Processing	LMSCCNTL1933	P950A	SVQT	SQTO
Contracting	LMSC*SSD6001	P950A	SVQT	SQTO
Cognizant	AFSC	*	*	SQTO
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT SQTJ

JULTES, DIRECT RADIATION REVERBERANT ACOU. QUALIFICATION TEST
LVET CELL1, 3 MIN. RUN, CELL PURGED
CORRUGATED SHROUD, ACTUAL EQUIPMENT
10 HZ PSD ANALYSIS

Processing	LMSCCNTL1933	P950A	SVQT	SQTJ
Contracting	LMSC*SSD6001	P950A	SVQT	SQTJ
Cognizant	AFSC			
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

C-10

AC18
ACOUSTIC ACCEPTANCE TEST
REVERBERANT TEST
LVET CELL 1

Processing	LMSCLVET7640	P950A	SVAC	AC18
Contracting	LMSC*SSD6001	P950A	SVAC	AC18
Cognizant	AFSC	*	*	AC18
Date				
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT NPAC

LVET FILE #1233 ACOUSTIC TEST REVERBERANT EXCITATION MODULE TEST CHAMBER PALLET TEST ON HANDLING DOLLY, TEST STRUCTURE MONT. W/REAL EQUIP & WIRE HARNESSES ANALYTICAL MODEL OF THE ARMM MODULE EXISTS NAVPAC PALLET AND MESA TEST

Processing	LMSCLVET7640	P950A	SSAT	NPAC
Contracting	LMSC*SSD6001	P950A	SSAT	NPAC
Cognizant	AFSC	*	*	NPAC
Date	10/16/76			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER			

SUMMARY OF EVENT NIH2

LVET FILE #977 ACOUSTIC TEST REVERBERANT EXCITATION MODULE TEST CHAMBER PALLET TEST ON HANDLING DOLLY, TEST STRUCTURE MONT.   W/REAL EQUIP & WIRE HARNESSES ANALYTICL MODEL OF THE ARMM MODULE   EXISTS NICKEL-HYDROGEN BATTERY ACOUSTIC TEST

Processing	LMSCLVET7640	P950A	SSAT	NIH2
Contracting	LMSC*SSD6001	P950A	SSAT	NIH2
Cognizant	AFSC	*	*	NIH2
Date	11/06/76			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER			

SUMMARY OF EVENT S772

LVET FILE #1194 ACOUSTIC TEST REVERBERANT EXCITATION
MODULE TEST CHAMBER PALLET TEST ON HANDLING DOLLY, TEST
STRUCTURE MONT. W/REAL EQUIP & WIRE HARNESSES
ANALYTICAL MODEL OF THE ARMM EXISTS

Processing	LMSCLVET7640	P950A	SSAT	S772
Contracting	LMSC*SSD6001	P950A	SSAT	S772
Cognizant	AFSC	*	*	S772
Date	09/21/77			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER			

SUMMARY OF EVENT MDUL

MODULE REVERBERANT CHAMBER TEST
MODULE CHAMBER
ACTUAL EQUIP AND WIRE HARNESSES
BAY IN ONE HALF MOUNT

Processing	LMSCCNTL1933	P950A	SSQT	MDUL
Contracting	LMSC*SSD6001	P950A	SSQT	MDUL
Cognizant	AFSC	*	*	MDUL
Date	12/02/69			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-5		
Vehicle	BOOSTER	*	SCS*MODULE	

SUMMARY OF EVENT F131

F131 CORRESPONDS TO F109 AND F137
PSD'S MAXIMUM OBTAINED FROM A 1/3 OCTAVE
TIME HISTORY.

Processing	LMSCCNTL1933	P950A	*	F131
Contracting	LMSC*SSD6001	P950A	*	F131
Cognizant	AFSC	*	*	F131
Date				
Time				
Event				
Location				
Vehicle	BOOSTER			

C-12

SUMMARY OF EVENT F231

F231 CORRESPONDS TO F209 AND F237. PSD'S MAX
OBTAINED FROM A 1/3 OCTAVE TIME HISTORY.
F231 MAX Q= 976 LB/FT**2 F209 MAX Q= 806 LB/FT**2
F237 MAX Q= 736 LB/FT**2

Processing	LMSCCNTL1933	P950A	*	F231
Contracting	LMSC*SSD6001	P950A	*	F231
Cognizant	AFSC	*	*	F231
Date				
Time	00:00:00.0			
Event				
Location				
Vehicle	BOOSTER			

SUMMARY OF EVENT IAT3

IAT3   ACO TEST NO INTEGRATED ACO TEST REVERBERANT EXCITATION CELL 1   10 FT DIA
CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH BOTH SIMULATED AND ACTUAL EQUIPMENT SKIN MOUNTED
RADIAL PANEL EQUIPMENT MOUNTING STRUCTURE IN EQUIP SECTION

Processing	LMSCLVET7640	P252	SVDT	IAT3
Contracting	LMSC*SSD3001	P252	SVDT	IAT3
Cognizant	HDQT	*	*	IAT3
Date	11/01/73			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT P905

P905 ACO TEST NO REVERBERANT EXCITATION LVET CELL 1
10 FT DIA CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH BOTH SIMULATED AND ACTUAL EQUIPMENT SKIN MOUNTED
RADIAL PANEL EQUIPMENT MOUNTING STRUCTURE IN EQUIP SECTION

Processing	LMSCLVET7640	P252	SVDT	P905
Contracting	LMSC*SSD3001	P252	SVDT	P905
Cognizant	HDQT	*	*	P905
Date	01/17/74			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT P906

P906 ACO TEST NO 1906 REVERBERAT EXCITATION LVET CELL 1
P906 10 FT DIA CORRUGATED FAIRING
P906 TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT AND WIRING HARNESS SKIN MOUNTED
RADIAL PANEL EQUIPMENT MOUNTING STRUCTURE IN EQUIP SECTION

Processing	LMSCLVET7640	P252	SVQT	P906
Contracting	LMSC*SSD3001	P252	SVQT	P906
Cognizant	HDQT	*	*	P906
Date	10/16/75			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	BOOSTER			

SUMMARY OF EVENT ID09

1981 ID ACOUSTIC TEST LVET FIL#1631 REVER. EXCIT. LVET C1

14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS
OPEN=NONE, MASSES=OFF, PANELS=INSTR., INTERNAL FOAM= REMOVED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCCNTL1933	IR&D	C8EK	ID09
Contracting	LMSC*SSD6260	IR&D	C8EK	ID09
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID09
Date	03/18/81			
Time	13:01:46.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID03

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL
W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, ORTS OPEN: NONE, MASSES:
ON AND INSTR, INTERNAL FOAM: INSTALLED   PURPOSE: VENT EFFECT,ATTCH LOAD
EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCCNTL1933	IR&D	C8EK	ID03
Contracting	LMSC*SSD6260	IR&D	C8EK	ID03
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID03
Date	03/13/81			
Time	17:42:56.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID04

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS OPEN: H1, MASSES: ON AND INSTR, INTERNAL FOAM: INSTALLED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCLVET7640	IR&D	C8EK	ID04
Contracting	LMSC*SSD6260	IR&D	C8EK	ID04
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID04
Date	03/16/81			
Time	16:36:32.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID05

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS OPEN: H1+H2, MASSES: ON AND INSTR, INTERNAL FOAM: INSTALLED PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT, SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCLVET7640	IR&D	C8EK	ID05
Contracting	LMSC*SSD6260	IR&D	C8EK	ID05
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID05
Date	03/16/81			
Time	17:09:08:.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID06

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS OPEN: S1, MASSES: ON AND INSTR, INTERNAL FOAM: INSTALLED PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT, SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCLVET7640	IR&D	C8EK	ID06
Contracting	LMSC*SSD6260	IR&D	C8EK	ID06
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID06
Date	03/17/81			
Time	08:44:02.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID07

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS OPEN: S1+S2, MASSES: ON AND INSTR, INTERNAL FOAM: INSTALLED   PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT, SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCLVET7640	IR&D	C8EK	ID07
Contracting	LMSC*SSD6260	IR&D	C8EK	ID07
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID07
Date	03/17/81			
Time	09:29:08.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID08

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS OPEN: S5, MASSES: ON AND INSTR, INTERNAL FOAM: INSTALLED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCLVET7640	IR&D	C8EK	ID08
Contracting	LMSC*SSD6260	IR&D	C8EK	ID08
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID08
Date	03/17/81			
Time	10:35:00.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID16

1981 ID ACOUSTIC TEST LVET FILE#1631 REVERBERANT EXCITATION LVET CELL1 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 2-FT ABVE FLOR, PORTS OPEN: NONE, MASSES: ON AND INSTR, INTERNAL FOAM: REMOVED   PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT, SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCCNTL1933	IR&D	C8EK	ID16
Contracting	LMSC*SSD6260	IR&D	C8EK	ID16
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID16
Date	03/19/81			
Time	12:51:52.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID11

1981 ID ACOUSTIC TEST LVET FIL#1631 REVER. EXCIT. LVET C1,
14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS
OPEN: H1, MASSES: ON, PANELS: INSTR., INTERNAL FOAM: REMOVED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCCNTL1933	IR&D	C8EK	ID11
Contracting	LMSC*SSD6260	IR&D	C8EK	ID11
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID11
Date	3/18/81			
Time	14:40:46.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID15

1981 ID ACOUSTIC TEST LVET FIL#1631 REVER. EXCIT. LVET C1
14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS
OPEN: NONE, MASSES: ON AND INSTR, INTERNAL FOAM: REMOVED PURPOSE: VENT EFFECT,ATTCH
LOAD EFFECT,SPECIMEN-FLOOR SPAC,CYL/CAV INTER

Processing	LMSCCNTL1933	IR&D	C8EK	ID15
Contracting	LMSC*SSD6260	IR&D	C8EK	ID15
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID15
Date	03/19/81			
Time	10:01:40.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT ID21

1981 ID ACOUSTIC TEST LVET FIL#1631 REVER. EXCIT. LVET C1
14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABV
FLOR, PORTS OPEN: H1, MASSES: ON AND INSTR, INTERNAL FOAM: REMOVED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-2 FT LONG PIPE IN HOLE

Processing	LMSCCNTL1933	IR&D	C8EK	ID21
Contracting	LMSC*SSD6260	IR&D	C8EK	ID21
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID21
Date	03/24/81			
Time	14:29:24.31			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

1981 ID ACOUSTIC TEST LVET FIL#1631 REVER. EXCIT. LVET C1
14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABVE FLOR, PORTS
OPEN: H1, MASSES: ON AND INSTR, INTERNAL FOAM: REMOVED
PURPOSE: VENT EFFECT,ATTCH LOAD EFFECT,SPECIMEN-4 FT LONG PIPE IN HOLE

Processing	LMSCCNTL1933	IR&D	C8EK	ID22
Contracting	LMSC*SSD6260	IR&D	C8EK	ID22
Cognizant	LMSC*SSD6001	IR&D	C8EK	ID22
Date	03/24/81			
Time	15:01:44.32			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	EXPERIMENT			

SUMMARY OF EVENT STD1

SPACETELESCOPE ACO TEST REVERBERANT EXCITATION LVET CELL 1
STRUCTURAL DYNAMIC TEST VEHICLE   AIR BAG SUSPENSION SYSTEM
SIMULATED EQUIPMENT
JSC 07700 VOL 14 ACO SPECTRUM

Processing	LMSCLVET7640	SPACE-TEL	STDV	STD1
Contracting	LMSC*SSD6001	SPACE-TEL	STDV	STD1
Cognizant	LMSC*SSD6001	*	*	STD1
Date	12/03/76			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMMARY OF EVENT STD2

SPACETELESCOPE ACO TEST REVERBERANT EXCITATION LVET CELL 1
STRUCTURAL DYNAMIC TEST VEHICLE   AIR BAG SUSPENSION SYSTEM
SIMULATED EQUIPMENT
TEST SPECTRUM BASED ON EARLY 0V101 HANGER ACO TEST

Processing	LMSCLVET7640	SPACE-TEL	STDV	STD2
Contracting	LMSC*SSD6001	SPACE-TEL	STDV	STD2
Cognizant	LMSC*SSD6001	*	*	STD2
Date	12/03/76			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMARY OF EVENT EAT3

RUN 3 SPECTRUM B
ALL
APPENDAGES
ADDED

Processing	LMSCLVET7640	SPACE-TEL	C85A	EAT3
Contracting	LMSC*SSD6001	SPACE-TEL	C85A	EAT3
Cognizant	NASAMSFC	*	*	EAT3
Date	6/21/80			
Time	16:17:06.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMARY OF EVENT EAT2

RUN 2 SPECTRUM A
ALL
APPENDAGES
ADDED

Processing	LMSCLVET7640	SPACE-TEL	C85A	EAT2
Contracting	LMSC*SSD6001	SPACE-TEL	C85A	EAT2
Cognizant	NASAMSFC			
Date	6/21/80			
Time	13:55:30.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMMARY OF EVENT EAT5

RUN 5 SPECTRUM A
ALL
APPENDAGES
REMOVED

Processing	LMSCLVET7640	SPACE-TEL	C85A	EAT5
Contracting	LMSC*SSD6001	SPACE-TEL	C85A	EAT5
Cognizant	NASAMSFC			
Date	6/22/80			
Time	9:19:04.0			
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMARY OF EVENT EAT6

RUN 6 SPECTRUM A
A) REMOVED 35LB MASSES FROM 120IN HGA SUPPORTS (FORE + AFT)
B) REMOVED 35LB MASS FROM 168IN HGA BOOM AFT SUPPORT
C) REMOVED SCIENTIFIC INSTRUMENT CARD AND DH TRAY

Processing	LMSCLVET7640	SPACE-TEL	C85A	EAT6
Contracting	LMSC*SSD6001	SPACE-TEL	C85A	EAT6
Cognizant	NASAMSFC	*	*	EAT6
Date	12/01/80			
Time				
Event	GROUND	REVERBERANT		
Location	LVET	CELL-1		
Vehicle	SHUTTLE			

SUMMARY OF EVENT OSSL

INTEGRATED OSS-1 PALLET PAYLOAD FLIGHT MAXIMUM FOR LIFTOFF
FLOWN ON STS-3
CAN BE COMPARED TO GROUND TEST DATA IN EVENT OSSG
ACTUAL MEASUREMENT NUMBERS START WITH A '9' INSTEAD OF 'M' OR 'V'

Processing	LMSC	OEX	DATE	OSSL
Contracting	NASA-GSFC	OEX	DATE	OSSL
Cognizant	NASA	OEX	DATE	OSSL
Date	03/22/82			
Time	00:00:06.0			
Event	FLIGHT	LIFTOFF		
Location	KSC	LAUNCHPAD39A		
Vehicle	SHUTTLE	COLUMBIA	OV102	

SUMMMARY OF EVENT OSST

INTEGRATED OSS-1 PALLET PAYLOAD FLIGHT MAXIMUM FOR LIFTOFF
FLOWN ON STS-3
CAN BE COMPARED TO GROUND TEST DATA IN EVENT OSSG
ACTUAL MEASUREMENT NUMBERS START WITH A '9' INSTEAD OF 'M' OR 'V'

Processing	LMSC	OEX	DATE	OSST
Contracting	NASA-GSFC	OEX	DATE	OSST
Cognizant	NASA	OEX	DATE	OSST
Date	03/22/82			
Time	00:00:45.0			
Event	FLIGHT	TRANSONIC		
Location	KSC	LAUNCHPAD39A		
Vehicle	SHUTTLE	COLUMBIA	OV102	

STS5 FLIGHT DATA
MAIN ENGINE IGNITION SSME
OV102 COLUMBIA
AEROSPACE DATA PROCESSING

Processing	AEROSPACE	OEX	DATE	STSI
Contracting	NASA	OEX	DATE	STSI
Cognizant	NASA	OEX	DATE	STSI
Date	11/11/82			
Time				
Event	FLIGHT	SSME-IGN	STS5	
Location	KSC	*	STS5	
Vehicle	SHUTTLE	COLUMBIA	STS5	OV102

SUMMARY OF EVENT STSL

STS5 FLIGHT DATA
LIFTOFF
OV102 COLUMBIA
AEROSPACE DATA PROCESSING

Processing	AEROSPACE	OEX	DATE	STSL
Contracting	NASA	OEX	DATE	STSL
Cognizant	NASA	OEX	DATE	STSL
Date	11/11/82			
Time				
Event	FLIGHT	LIFTOFF	STS5	
Location	KSC	*	STS5	
Vehicle	SHUTTLE	COLUMBIA	STS5	OV102

SUMMMARY OF EVENT STST

STS5 FLIGHT DATA
TRANSONIC
OV102 COLUMBIA
AEROSPACE DATA PROCESSING

Processing	AEROSPACE	OEX	DATE	STST
Contracting	NASA	OEX	DATE	STST
Cognizant	NASA	OEX	DATE	STST
Date	11/11/82			
Time				
Event	FLIGHT	TRANSONIC	STS5	
Location	KSC	*	STS5	
Vehicle	SHUTTLE	COLUMBIA	STS5	OV102

SUMMARY OF EVENT OSSG

INTEGRATED OSS-1 PALLET PAYLOAD ACOUSTIC TEST
TEST PERFORMED IN 40,000 CUBIC FOOT GSFC ACOUSTIC CHAMBER
DATE ACCELS ARE LABELLED WITH (A), AND NON-DATA WITH (V)
REF: NASA TM86087, FRANK ON, APRIL 1984.

Processing	NASA-GSFC	OEX	SYS-GRD-TST	OSSG
Contracting	NASA	OEX	SYS-GRD-TST	OSSG
Cognizant	NASA	OEX	SYS-GRD-TST	OSSG
Date	09/25/80			
Time				
Event	GROUND	REVERBERANT	PROTOFLIGHT	
Location	GREENBELT	GSFC	40KCELL	
Vehicle	OEX	OSS	OSS-1	

SUMMARY OF EVENT RP1

IUS PLUME SHIELD RUN 145T ACOUSTIC TEST: OA=145DB, DUR=1 MIN. HP 5451C
ANALYZER; 20 SEC REC; FREQ RANG 2660 HZ;10HZ BANDWIDTH, 64 AVGS. ACCEL   SENSE:
X-AXIAL,Y-RADIAL,Z-TANG,N-NORMAL TO SHIELD. DATA FROM 90/270
AND 189 DEG SHIELD AND ACOUSTIC TEST FIXS. RE: CLARK BECK - BOEING - KENT.

Processing	BOEING	IUS	IUS-STS	RP1
Contracting	AIR*FORCE	IUS	*	RP1
Cognizant	AEROSPACE	IUS	*	RP1
Date	08/17/84			
Time				
Event	GROUND	REVERBERANT		
Location	BOEING	KENT	BLDG18-24	
Vehicle	ELV	IUS	COMPONENT	PLUME-SHIELD

SUMMARY OF EVENT RP2

IUS PLUME SHIELD RUN 151T ACOUSTIC TEST: OA=151DB, DUR=3 MIN. HP 5451C   ANAL; 20 SEC
REC(FIRST 20); FREQ RANG 2660 HZ;10HZ BAND, 64 AVGS. ACCEL SENSE: X-AXIAL, Y-RADIAL, Z-TANG,
N-NORMAL TO SHIELD. DATA FROM 90/270 AND 189 DEG SHIELD AND ACOUSTIC TEST FIXS. RE:
CLARK BECK - BOEING - KENT.

Processing	BOEING	IUS	IUS-STS	RP2
Contracting	AIR*FORCE	IUS	*	RP2
Cognizant	AEROSPACE	IUS	*	RP2
Date	08/17/84			
Time				
Event	GROUND	REVERBERANT		
Location	BOEING	KENT	BLDG18-24	
Vehicle	ELV	IUS	COMPONENT	PLUME-SHIELD

SUMMARY OF EVENT I6T

INERTIAL UPPER STAGE (IUS). ACOUSTIC ACCEPTANCE TEST: IUS-6
(T34D CONF) OA=145DB, DUR=1 MIN. HP 5451C ANALYZER; 20 SEC REC;
FREQ RANG 2660 HZ; 10HZ BANDWIDTH, 64 AVGS. ACCEL SENSE: A-AXIAL,
R-RADIAL,T-TANGENTIAL TO IUS. RE: CLARK BECK - BOEING AEROSPACE - KENT.

Processing	BOEING	IUS	IUS-6	I6T
Contracting	AIR*FORCE	IUS	*	I6T
Cognizant	AEROSPACE	IUS	*	I6T
Date	04/29/82			
Time				
Event	GROUND	REVERBERANT		
Location	BOEING	KENT	BLDG18-24	
Vehicle	ELV	IUS	IUS-6	

SUMMARY OF EVENT ERBS

ERBS OBSERVATORY ACOUSTIC TEST AT PROTOFLIGHT LEVEL, JUNE 1984 IN
GSFC 40K CU. FT. REVERB. NOISE TEST FACILITY. EVENT INCLUDES TEST(T)
& FLIGHT(L) TRANSDUCERS. SPACECRAFT COORDINATES ARE USED THROUGHOUT,
+ZE-+ZO, -XE-+YO, +YE-+XO

Processing	NASA-GSFC	ERBS	ACOUSTICTEST	ERBS
Contracting	NASA	ERBS		
Cognizant				
Date	06/13/84			
Time				
Event	GROUND	REVERBERANT	PROTOFLIGHT	
Location				
Vehicle	SHUTTLE			

SUMMARY OF EVENT GPSA

THE ACOUSTIC TEST AT ACCEPTANCE-LEVEL ON THE GPS
QUALIFICATION TEST VEHICLE WAS PERFORMED MARCH 8-10
1977 AT ROCKWELL INTERNATIONAL B-1 DIVISION ACOUSTIC
TEST CHAMBER.

Processing	ROCKWELL	NAVSTAR	QPS-QTV	GPSA
Contracting	AIRFORCE			
Cognizant	AEROSPACE			
Date	03/10/77			
Time				
Event	GROUND	REVERBERANT	ACCEPTANCE	
Location	ROCKWELL	CELLB-1		
Vehicle				

SUMMARY OF EVENT GPSQ

THE ACOUSTIC TEST AT QUAL-LEVEL ON THE GPS
QUALIFICATION TEST VEHICLE WAS PERFORMED
MARCH 8-10, 1977 AT ROCKWELL INTERNATIONAL
B-1 DIVISION ACOUSTIC TEST CHAMBER.

Processing	ROCKWELL	NAVSTAR	GPS-QTV	GPSQ
Contracting	AIRFORCE			
Cognizant	AEROSPACE			
Date	03/10/77			
Time				
Event	GROUND	REVERBERANT	ACCEPTANCE	
Location	ROCKWELL	CELLB-1		
Vehicle				

SUMMARY OF EVENT DSCS

THE ACOUSTIC TEST AT QUAL-LEVEL ON THE DSCS VEHICLE
JANUARY 1, 1981 AT GENERAL ELECTRIC-SPACE DIVISION.

Processing	GE	DSCSIII	ACOU-QUAL	DSCS
Contracting	AIRFORCE			
Cognizant	AEROSPACE			
Date	01/01/81			
Time				
Event				
Location	SPACE	DIV		
Vehicle				

1. Report No. 91-26	2. Government Accession No.	3. Recipient's Catalog No.

4. Title and Subtitle Vibroacoustic Payload Environment Prediction System (VAPEPS) VAPEPS Management Center Remote Access Guide	5. Report Date June 15, 1991
	6. Performing Organization Code

7. Author(s) J. P. Fernandez, D. Mills	8. Performing Organization Report No.

9. Performing Organization Name and Address JET PROPULSION LABORATORY California Institute of Technology 4800 Oak Grove Drive Pasadena, California 91109	10. Work Unit No.
	11. Contract or Grant No. NAS7-918
	13. Type of Report and Period Covered JPL Publication
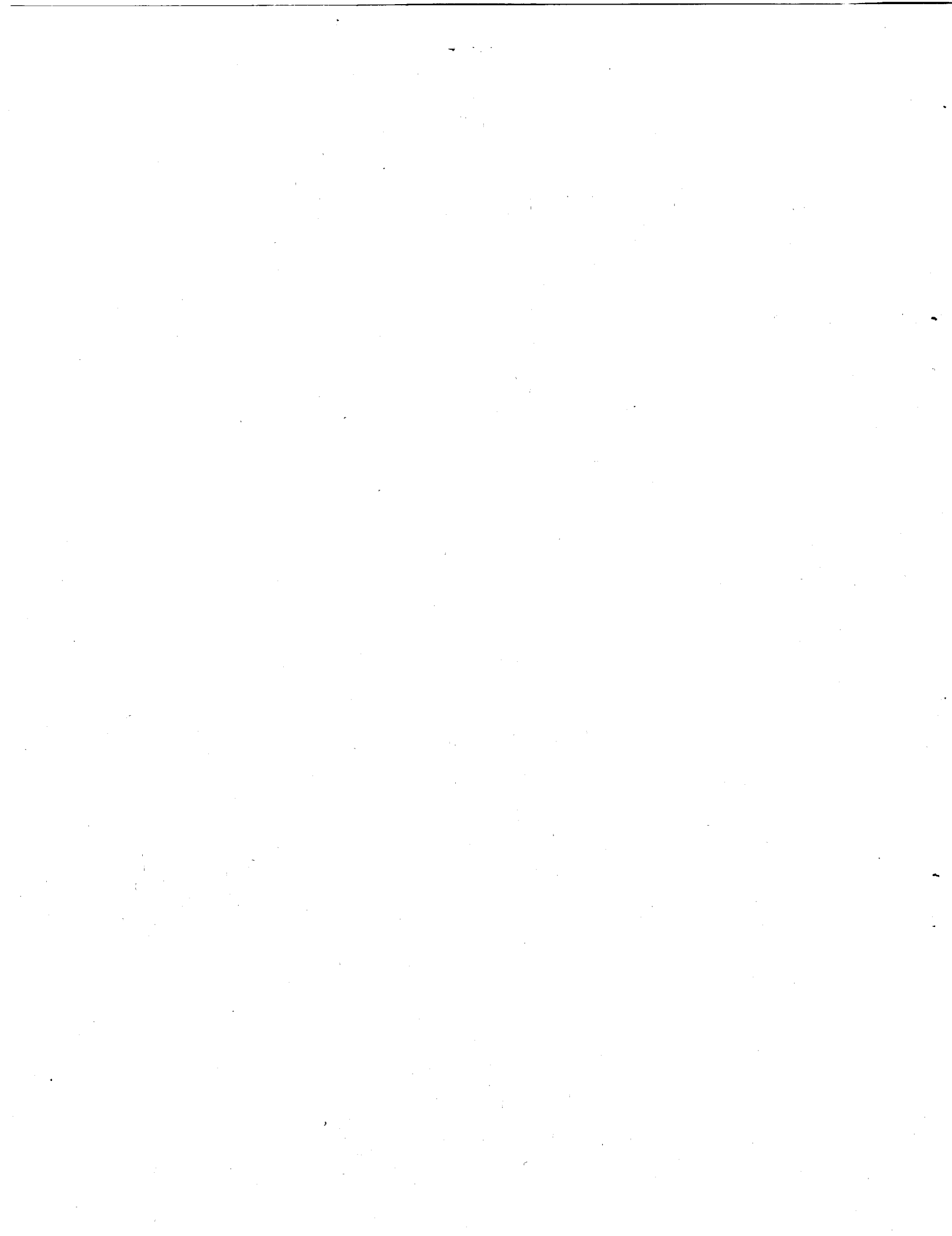
12. Sponsoring Agency Name and Address NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Washington, D.C. 20546	
	14. Sponsoring Agency Code RE 65 DY-572-10-30-06-34

15. Supplementary Notes

16. Abstract

A VAPEPS (Vibroacoustic Payload Environment Prediction System) Management Center has been established at the Jet Propulsion Laboratory (JPL). The center utilizes the VAPEPS software package to manage a database of shuttle and expendable launch vehicle payload flight and ground test data. Remote terminal access over telephone lines to the computer system, where the program resides, has been established to provide the payload community a convenient means of querying the global VAPEPS database. This guide describes the functions of the VAPEPS Management Center and contains instructions for utilizing the resources of the center.

17. Key Words (Selected by Author(s)) Launch vehicles and space vehicles Quality assurance and reliability	18. Distribution Statement Unclassified; unlimited.

19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of Pages 54	22. Price