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Vibroacoustic Payload Environment Prediction System (VAPEPS)

Data Base Management Center Remote Access Guide

V. C. Thomas

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by
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

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ABSTRACT

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

PREFACE

This manual is intended to be used as a general guide for accessing the Vibroacoustic Payload Environment Prediction System (VAPEPS) Data Base Management Center (DBMC) at the Jet Propulsion Laboratory. It describes the resources of the DBMC 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 contact:

Chuck Hayes	(818) 354-3672	VAPEPS Workshops, Computer accounts, Program tapes.
Valerie Thomas	(818) 354-7472	Technical questions, DBMC access.
Gloria Badilla	(818) 249-0508	Technical questions, DBMC access.
Kathy Duff	(818) 249-0508	Computer Accounts, Program Tapes, DBMC access.

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

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I. INTRODUCTION

A Vibroacoustic Data Base Management Center has recently been established at the Jet Propulsion Laboratory. The Center utilizes the Vibroacoustic Payload Environment Prediction System (VAPEPS) software package to maintain and update a Vibroacoustic Data Base. Lockheed Missiles and Space Company 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 data base contains flight and ground test acoustic and vibration 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 the data base to establish the vibroacoustic environment of new payload components.

As Database Administrator for VAPEPS, JPL's primary objectives are to expand the data base, to maintain its integrity by reviewing new data sets for accuracy and completeness and to provide the aerospace community with a convenient access to the data base which is stored on a dedicated computer system at JPL.

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

II. GETTING STARTED

It is recommended (but not required) that you have VAPEPS running on a computer system at your local site before you access the data base at JPL. The VAPEPS program that JPL provides to search the data base is a limited version. The prediction routines and other CPU intensive functions and commands are not provided to users of the DBMC. It is suggested that you transfer pertinent data from the JPL data base to your local site and use it with a complete version of VAPEPS.

Appendix I contains detailed information on how to obtain program tapes. Tapes of the complete data base will also be sent upon request. The following documentation is also available from JPL:

1. "Vibroacoustic Payload Environment Prediction System (VAPEPS)," NASA CR 166283.
 - Volume I: VAPEPS Technical Manual, Y.A. Lee and W. Henricks, October 1983.
 - Volume II: VAPEPS User's Manual, B.K. Davis and D.W. Russell, December 1982.
 - Volume III: VAPEPS Programmer's Manual, J.E. Schafer, December 1982.

- Volume IV: VAPEPS Sample Problems, B.K. Davis, W. Henricks, D.W. Russell, December 1982.
 - Volume V: VAPEPS Plot Package, J.E. Schafer, B.K. Davis, Y.A. Lee, June 1984.
2. "Vibroacoustic Payload Environment Prediction System (VAPEPS)," NASA CR 177905.
- Volume I: VAPEPS Improvement and Verification, Y.A. Lee, W. Henricks, D.M. Park, September 1985.
 - Volume II: VAPEPS Workshop User's Guide, D.M. Park, D.W. Russell, August 1985.
 - Volume III: VAPEPS Workshop Notes, W. Henricks, Y.A. Lee, D.M. Park, August 1985.

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:

Chuck Hayes, MS 301-456
 Jet Propulsion Laboratory
 4800 Oak Grove Drive
 Pasadena, CA 91109
 (818) 354-3672

III. ACCESSING THE COMPUTER SYSTEM

The VAPEPS program and data base are stored on a dedicated MASSCOMP 5500 Computer System located at JPL. An authorized account and the appropriate hardware are required to use the system.

A. Obtaining An Account

Each individual who wants to access the data base will be assigned a user id and password which will allow him/her to log on to the computer system. To obtain an account, fill out and mail the request form in Appendix I or contact JPL directly at the phone number listed.

B. Required Hardware

Table 1 lists the termcaps that are supported by the VAPEPS computer system. You should try a termcap that most closely resembles your terminal type. The default is vt100, if an unknown terminal type is specified when logging onto the system. 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 data base, 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.

C. Phone Numbers

There are currently four phone lines with Hayes Smartmodems available for dialing into the computer system. Three lines are 1200 baud. A Telebit Trailblazer modem has been installed on the fourth line which will allow communications 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) 353-6318
(818) 353-6319
(818) 353-6418
(818) 353-6419 (Telebit)

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 type 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 from the list in Table 1 (a carriage return will not produce a response). The computer will then reply:

```
term type set to "your term type"
```

```
date
$
```

Table 1. Termcaps

masscomp2	aaa-18-rv	gt40	digilog
masscomp1	aaa-20-rv	vt50	tab132
masscomp24	aaa-22-rv	dw1	tab132w
masscomp	aaa-24-rv	vt50h	tab132rv
arpanet	aaa-26-rv	vt100s	tab132wrv
bussiplexer	aaa-28-rv	vt100w	mw2
contender	aaa-30-rv	vt52	trs100
du	aaa-36-rv	dw2	trs80
dumb	aaa-40-rv	adm3a	d800
switch	aaa-48-rv	2621	vc404
tk4107	aaa-60-rv	hp2626	vc404s
914	aaa-18-rv-s	hp2645	vc404na
914r	aaa-20-rv-s	2640	vc404sna
914u	aaa-22-rv-s	2621-ba	vc303a
922	aaa-24-rv-s	2621k45	vc303
922w	aaa-26-rv-s	hp	ampex
tvi970	aaa-28-rv-s	hp2648	compucolor
ansi	aaa-30-rv-s	2640b	d132
rbow100	aaa-36-rv-s	2621-48	soroc
rbow1001	aaa-40-rv-s	2621-nl	mime2a
cit80s	aaa-48-rv-s	2621-nt	mime3ax
cit80	aaa-60-rv-s	2621-wl	pe550
citc	aaa-24-ctxt	c100rv	fox
cit101e	aaa-24-rv-ctxt	c100	owl
cita	aaa-30-s-ctxt	mime	bc
ocit101	aaa-30-s-rv-ctxt	h19	nucterm
cit101b	aaa-ctxt	adm3	ex3000
cit101	aaa-rv-ctxt	1620	carlock
cit101w	aaa-db	1640	exidy
aa	tvi912	dte300s	netx
aaa-29-np	912b	gsi	sexidy
aaa-unk	tvi9122p	aj830	ubell
aaa-18	tvi950-ap	qume5	ttyWilliams
aaa-20	tvi950-4p	x1720	xitex
aaa-22	tvi950b	cdc456	ti
aaa-24	tvi950ns	cdc456tst	ti745
aaa-26	tvi950-2p	dm1520	ti800
aaa-28	tvi950	dm1521	t3700
aaa	tvi9502p	dm2500	t3800
aaa-36	tvi9504p	dm3025	t1061
aaa-40	tvi950rv	3045	t1061f
aaa-48	tvi950rv2p	dt80	4420
aaa-60	tvi950rv4p	dt80132	415
aaa-unk-s	vi200	delta	tec400
aaa-18-s	vi200-rvic	h1000	
aaa-20-s	vi200-f	h1552	tec500
aaa-22-s	vi200-rv	h1552rv	tec
aaa-24-s	vi200-ic	h1420	teletec
aaa-26-s	visual50	h1500	ep48
aaa-28-s	wy75	h1510	ep40
aaa-30-s	vt100n	h1520	terminet1200
aaa-36-s	vt100	h2000	aed512
aaa-40-s	ovt100	8001	datapoint
aaa-48-s	gt42	intext	dg
aaa-60-s	vt132	ibm	cdi

Table 1. Termcaps
(cont'd)

xl83	adm2
omron	adm42
plasma	adm5
remote	adm3a+
swtp	oadm31
terak	mime3a
virtual	microterm
delta	microterm5
mdl110	act5s
zen30	mime-fb
40	mime-hb
33	mime2a
43	2621nl
37	2621nt
4424	2621wl
tek	c100-rv-s
tek4013	i100
tek4014	i400
tek4015	addrinfo
tek4014-sm	infotonKAS
tek4015-sm	4014sm
tek4023	adm31
4025	dm2500
4025-17	382
4025-17ws	h89
4025ex	h89a
4025-cr	h89e
4112	dec vt52
4112-nd	4107-gs
4112-5	4107
regent	4107-s-vb
regent100	
regent20	
regent25	
regent40	
regent60	
regent60na	
a980	
viewpoint	
sb2	
bh3m	
superbeeic	
microb	
sb1	
c108	
c108	
c108-rv-8p	
c108-rv-4p	
c108-na	
c108-rv-na	
c108-w	
c100-rv-pp	
c100-rv-na	
c100-rv	
c100-s	

The \$ is the system prompt. If you type in an unknown terminal type, the computer will reply:

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

At this point (at the \$ prompt) you can execute VAPEPS or use the DBMC 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.

IV. DATA BASE MANAGEMENT SYSTEM RESOURCES AND COMMANDS

The VAPEPS dedicated computer system is a MASSCOMP 5500 using the UNIX* operating system. This manual does not attempt to provide detailed 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 DBMC are a restricted subset of those available in UNIX. A list of these commands and a brief description of each are given in Appendix II. Appendix II and the remainder of this manual describes 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.

* UNIX is a trademark of Bell Laboratories

A. Mail

The UNIX mail command allows users to send mail messages to each other. To invoke the mail utility, type mail followed by the user id of the person or persons you wish to send mail to. Then type in the text of your message, followed by ctrl-d.

```
$ mail mary tony
This is a mail message
ctrl-d
$
```

or you can mail the contents of a file:

```
$ mail tony < file
```

If someone has sent you mail, you will be greeted by the message "You have mail", when you log in to the system. To read your messages simply type:

```
$ mail
```

Your mail messages will be printed one at a time starting with the last one received. After each message, mail will wait patiently with a ? prompt. If you type ?, a list of options will be displayed allowing you to save, delete, or forward your messages.

For example, to save your mail, type:

```
? s                saves mail in file called mbox
or
? s filename       saves mail in file
```

The following options are available:

```
? ?
q                quit
x                exit without changing mail
p                print
s [file]        save (default mbox)
w [file]        same without header
-                print previous
d                delete
+                next (no delete)
m [user]        mail to user
! cmd           execute cmd
```

B. 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 mail command:

```
$ mail vapeps
  message          message you'd like posted
  ctrl-d
$
```

Mail messages to vapeps and other news about the VAPEPS program or the DBMC are placed in a file called:

```
/usr/vapeps/bin/bboard
```

To read the messages, use the UNIX more command described in Appendix II:

```
$ more /usr/vapeps/bin/bboard
```

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.

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

```
$ kermit
```

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

C-Kermit > server

7. Disconnect from the VAPEPS 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:

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 MASSCOMP 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 VAPEPS program that JPL provides to remote terminal users in the payload community is limited in scope. The following functions are available:

1. VAPEPS on-line HELP utility.
2. Data base searching commands.
3. Data retrieval commands.
4. Data conversion/manipulation routines.
5. Plotting and data presentation commands.

Not included in the program are: all the prediction routines, the data base enter and prep commands, certain computations such as FFTs and shock response spectra, and administrative commands for creating boot tapes, manuals, etc.

The VAPEPS Workshop User's Guide is a good starting point for new or infrequent VAPEPS users. The specific commands associated with each of the five operations listed above are described in detail in the guide. If you attempt to execute a command or runstream that is not available, VAPEPS will display the message: 'command not found'.

A. Executing and Terminating VAPEPS

To start execution of the program in the interactive mode, type vapeps at the system prompt:

```
$ vapeps

VAP4.0 4-04/20/86-15:18:38      , 20000
FOR SPLASHLINE DATED 860303, TYPE 'NEWS'
?                               - 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. File names are limited to 14 characters, either upper or 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 in naming external files.

On the VAPEPS MASSCOMP computer, logical names are assigned to DAL units within the VAPEPS program using the fname command. For example, to assign a name My.dal to DAL001, use the command:

```
$ fname 1, 'My.dal'
or
$ FNAME 1, 'My.dal'
```

It is recommended that DAL files have '.dal' appended to their names so that users can distinguish between them and system files. Please remember that DAL files cannot be edited with the line editor, red.

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 DATA BASE

The VAPEPS data base currently consists of 6 DAL files containing spectral data and structural parameters for 68 events. The 6 DAL files are called:

```
/usr/dynthm/vapeps/db/LMSCDB1  
/usr/dynthm/vapeps/db/LMSCDB2  
/usr/dynthm/vapeps/db/LMSCDB3  
/usr/dynthm/vapeps/db/LMSCDB4  
/usr/dynthm/vapeps/db/LMSCDB5  
/usr/dynthm/vapeps/db/LMSCDB6
```

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

JPL will be constantly updating the data base 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 data base, 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 data base. If, however, you discover what appears to be a discrepancy, please let us know so that it can be re-checked and corrected if necessary.

Table 2. Data Base Events and Filenames

ALL

	PROC AGENCY	PROJECT	PROGRAM	ID
1.	LMSCLVET7640	CS3	ACOTAEN	P8A2
	FILE: /usr/dynthm/vapeps/db/LMSCDB1			
2.	LMSCLVET7640	CS3	ACOATEN	P8A0
	FILE: /usr/dynthm/vapeps/db/LMSCDB1			
3.	LMSCLVET7640	CS3	ACOATEN	P8A6
	FILE: /usr/dynthm/vapeps/db/LMSCDB1			
4.	LMSCLVET7640	P244	*	YPAN
	FILE: /usr/dynthm/vapeps/db/LMSCDB1			
5.	LMSCLVET7640	*	*	SP01
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
6.	LMSCLVET7640	P950A	SVAC	AC14
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
7.	LMSCLVET7640	P950A	SVAC	AC15
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
8.	LMSCLVET7640	P950A	SPAT*PH2TST1	ST21
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
9.	LMSCLVET7640	P950A	SPAT*PH1TST1	ST11
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
10.	LMSCLVET7640	P950A	SPAT*PH2TST4	ST24
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
11.	LMSCLVET7640	P950A	SVAC	AC17
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
12.	LMSCLVET7640	P950A	SVAC	AC13
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
13.	LMSCLVET7640	P950A	SSAT	APSA
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
14.	LMSCCNTL1933	P950A	*	F237
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
15.	LMSCLVET7640	P950A	SSAT	OR14
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
16.	LMSCLVET7640	P950A	SSQT	APSQ
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
17.	LMSCLVET7640	P950A	SSAT	ARMC
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
18.	LMSCCNTL1933	P950A	*	F109
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
19.	LMSCCNTL1933	P950A	*	F209
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
20.	LMSCCNTL1933	P950A	*	F137
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
21.	LMSCCNTL1933	P950A	SVAC	T709
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
22.	LMSCCNTL1933	P950A	SVAC	T737
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
23.	LMSCLVET7640	P950A	SPAT*PH1TST2	ST12
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
24.	LMSCLVET7640	P950A	SPAT*PH2TST3	ST23
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			

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

25.	LMSCLVET7640	P950A	SPAT*PH3TST2	ST32
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
26.	LMSCCNTL1933	P950A	SVQT	SQTO
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
27.	LMSCCNTL1933	P950A	SVQT	SQTJ
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
28.	LMSCLVET7640	P950A	SVAC	AC18
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
29.	LMSCLVET7640	P950A	SSAT	NPAC
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
30.	LMSCLVET7640	P950A	SSAT	NIH2
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
31.	LMSCLVET7640	P950A	SSAT	S772
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
32.	LMSCCNTL1933	P950A	SSQT	MDUL
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
33.	LMSCCNTL1933	P950A	*	F131
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
34.	LMSCCNTL1933	P950A	*	F231
	FILE: /usr/dynthm/vapeps/db/LMSCDB2			
35.	LMSCLVET7640	P252	SVDT	IAT3
	FILE: /usr/dynthm/vapeps/db/LMSCDB3			
36.	LMSCLVET7640	P252	SVDT	P905
	FILE: /usr/dynthm/vapeps/db/LMSCDB3			
37.	LMSCLVET7640	P252	SVQT	P906
	FILE: /usr/dynthm/vapeps/db/LMSCDB3			
38.	LMSCCNTL1933	IR&D	C8EK	ID09
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
39.	LMSCCNTL1933	IR&D	C8EK	ID03
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
40.	LMSCLVET7640	IR&D	C8EK	ID04
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
41.	LMSCLVET7640	IR&D	C8EK	ID05
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
42.	LMSCLVET7640	IR&D	C8EK	ID06
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
43.	LMSCLVET7640	IR&D	C8EK	ID07
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
44.	LMSCLVET7640	IR&D	C8EK	ID08
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
45.	LMSCCNTL1933	IR&D	C8EK	ID16
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
46.	LMSCCNTL1933	IR&D	C8EK	ID11
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
47.	LMSCCNTL1933	IR&D	C8EK	ID15
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
48.	LMSCCNTL1933	IR&D	C8EK	ID21
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
49.	LMSCCNTL1933	IR&D	C8EK	ID22
	FILE: /usr/dynthm/vapeps/db/LMSCDB4			
50.	LMSCLVET7640	SPACE-TEL	STDV	STD1
	FILE: /usr/dynthm/vapeps/db/LMSCDB5			
51.	LMSCLVET7640	SPACE-TEL	STDV	STD2
	FILE: /usr/dynthm/vapeps/db/LMSCDB5			
52.	LMSCLVET7640	SPACE-TEL	C85A	EAT3
	FILE: /usr/dynthm/vapeps/db/LMSCDB5			

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

53.	LMSCLVET7640	SPACE-TEL	C85A	EAT2
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
54.	LMSCLVET7640	SPACE-TEL	C85A	EAT5
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
55.	LMSCLVET7640	SPACE-TEL	C85A	EAT6
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
56.	LMSC	OEX	DATE	OSSL
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
57.	LMSC	OEX	DATE	OSST
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
58.	AEROSPACE	OEX	DATE	STSI
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
59.	AEROSPACE	OEX	DATE	STSL
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
60.	AEROSPACE	OEX	DATE	STST
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
61.	NASA-GSFC	OEX	SYS-GRD-TST	OSSG
	FILE:	/usr/dynthm/vapeps/db/LMSCDB5		
62.	BOEING	IUS	IUS-STS	RP1
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
63.	BOEING	IUS	IUS-STS	RP2
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
64.	BOEING	IUS	IUS-6	I6T
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
65.	NASA-GSFC	ERBS	ACOUSTICTEST	ERBS
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
66.	ROCKWELL	NAVSTAR	QPS-QTV	GPSA
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
67.	ROCKWELL	NAVSTAR	GPS-QTV	GPSQ
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		
68.	GE	DSCSIII	ACOU-QUAL	DSCS
	FILE:	/usr/dynthm/vapeps/db/LMSCDB6		

APPENDIX I

Computer Access and Tape Request Form

**VAPEPS DATABASE 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, 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: DEC VAX (VMS), MASSCOMP (UNIX), Sperry 1100 (Univac), Sperry 7000 (UNIX), CDC (NOS operating system, FORTRAN 77), CRAY 1S and XMP.

Request for Computerized Database Access

Individual Computer Accounts with Passwords will be assigned to each user requesting access to the JPL VAPEPS Database.

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

Charles D. Hayes, MS 301-456
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91109

(818) 354-3672

DATABASE ACCESS FORM

Organization: _____

Address: _____

User #1: Name _____
Mail Stop _____ Phone _____

User #2: Name _____
Mail Stop _____ Phone _____

User #3: Name _____
Mail Stop _____ Phone _____

User #4: Name _____
Mail Stop _____ Phone _____

APPENDIX II
UNIX Commands

UNIX COMMANDS

All UNIX commands are in lower case letters.

1. **cat:** concatenate files

<code>cat file1</code>	- prints file1 on standard output (terminal)
<code>cat file1>file2</code>	- cats file1 and overwrites to file2
<code>cat file1>>file2</code>	- appends file1 to file2

2. **cp:** restricted copy command

<code>cp file1 file2</code>	- makes a copy of file1 called file2
-----------------------------	--------------------------------------

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

4. **echo:** echos its arguments

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

<code>file file1</code>	- displays file type (i.e., ascii text, data, commands text, executable, etc.)
-------------------------	--

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

`head file1`

7. **ls:** list

<code>ls</code>	- lists files in current directory
<code>ls -l</code>	- detailed (long) version of ls

8. **mail:** mail command. See Section IV for details

9. **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 type q.

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

10. **ps:** process status

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

11. **pwd:** print working directory

12. **rm:** Restricted remove command. Will only allow you to delete your own files.

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

`tail file1`

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

15. **whoami:** returns login name

16. **write:** write to another user, who must be logged in

`write mary`
`1st line of message` - Writes a message to Mary's
screen. To end the communi-
cation, type ctrl-d.
.
.
.
`last line of message`
`ctrl-d`

In addition to the above commands, there is a restricted version of the line editor, `ed`, called `red`. As an example, the following shows how to use `red` to create and modify a file.

To create a file called example, type:

```
$ red example
? example          - editor prompt
a                  - append or add
this
is
an                 - contents of file
example
file
.                 - finished inputting text
w                 - write
24                - red displays the number of char-
                  - acters in the file
q                 - quit
$
```

To change a line, for example; to change line 2 from "is" to "was":

```
$ red example
24                - red displays # of characters in
                  - the file
2                 - move to line 2
is                - red displays line 2
s/is/was          - substitute "was" for "is"
was               - red displays change
w                 - write
25                - new # of characters
q                 - quit editor
```

This should get you started. Any UNIX book will have a more complete description of ed.

APPENDIX III

Data Base Event Descriptions

DATA BASE EVENT DESCRIPTIONS

PROCESS	LMSCLVET7640	CS3	ACOTAEN	P8A2
CONTRACT	*	CS3	*	P8A2
COGNIZNT	*	*	*	P8A2
DATE	11/01/75			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		

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

PROCESS	LMSCLVET7640	CS3	ACOATEN	P8A0
CONTRACT	*	CS3	*	P8A0
COGNIZNT	*	*	*	P8A0
DATE	11/01/75			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	CS3	ACOATEN	P8A6
CONTRACT	*	CS3	*	P8A6
COGNIZNT	*	*	*	P8A6
DATE	11/01/75			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P244	*	YPAN
CONTRACT	LMSC*SSD6001	P244	*	YPAN
COGNIZNT	AFSC	*	*	YPAN
DATE	07/05/79			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	*	*	SP01
DATE	3/25/71			
TIME	00:00:22.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		

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

PROCESS	LMSCLVET7640	P950A	SVAC	AC14
CONTRACT	LMSC*SSD6001	P950A	SVAC	AC14
COGNIZNT	AFSC	*	*	AC14
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

ACOU TEST REVERBERANT EXCITATION LVET CELL1
 10 FT DIAMETER CORRUGATED FAIRING
 TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
 AND WIRE HARNESSSES

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SVAC	AC15
CONTRACT	LMSC*SSD6001	P950A	SVAC	AC15
COGNIZNT	AFSC	*	*	AC15
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

ACOU TEST REVERBERANT EXCITATION LVET CELL1
10 FT DIAMETER CORRUGATED FAIRING
TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
AND WIRE HARNESSSES

PROCESS	LMSCLVET7640	P950A	SPAT*PH2TST1	ST21
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH2TST1	ST21
COGNIZNT	AFSC	*	*	ST21
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SPAT*PH1TST1	ST11
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH1TST1	ST11
COGNIZNT	AFSC	*	*	ST11
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SPAT*PH2TST4	ST24
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH2TST4	ST24
COGNIZNT	AFSC	*	*	ST24
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

PROCESS	LMSCLVET7640	P950A	SVAC	AC17
CONTRACT	LMSC*SSD6001	P950A	SVAC	AC17
COGNIZNT	AFSC	*	*	AC17
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

ACOU TEST REVERBERANT EXCITATION LVET CELL1
 10 FT DIAMETER CORRUGATED FAIRING
 TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
 AND WIRE HARNESSSES

PROCESS	LMSCLVET7640	P950A	SVAC	AC13
CONTRACT	LMSC*SSD6001	P950A	SVAC	AC13
COGNIZNT	AFSC	*	*	AC13
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

ACOU TEST REVERBERANT EXCITATION LVET CELL1
 10 FT DIAMETER CORRUGATED FAIRING
 TEST STRUCTURE MOUNTED WITH REAL EQUIPMENT
 AND WIRE HARNESSSES

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SSAT	APSA
CONTRACT	LMSC*SSD6001	P950A	SSAT	APSA
COGNIZNT	AFSC	*	*	APSA
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCNTL1933	P950A	*	F237
CONTRACT	LMSC*SSD6001	P950A	*	F237
COGNIZNT	AFSC	*	*	F237
TIME	00:00:39.5			
VEHICLE	BOOSTER			

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

PROCESS	LMSCLVET7640	P950A	SSAT	OR14
CONTRACT	LMSC*SSD6001	P950A	SSAT	OR14
COGNIZNT	AFSC	*	*	OR14
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-2		
VEHICLE	BOOSTER	*	OAM/RCM	

ACOU TEST REVERBERANT EXCITATION LVET CELL2
OAM/RCM14 WITH ARRAYS
TEST STRUCTURE MOUNTED WITH REAL EQUIP
AND WIRE HARNESSSES

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SSQT	APSQ
CONTRACT	LMSC*SSD6001	P950A	SSQT	APSQ
COGNIZNT	AFSC	*	*	APSQ
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SSAT	ARMC
CONTRACT	LMSC*SSD6001	P950A	SSAT	ARMC
COGNIZNT	AFSC	*	*	ARMC
DATE	01/04/78			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER			

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

PROCESS	LMSCCNTL1933	P950A	*	F109
CONTRACT	LMSC*SSD6001	*	*	F109
COGNIZNT	AFSC	*	*	F109
TIME	00:00:02.5			
VEHICLE	BOOSTER			

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCNTL1933	P950A	*	F209
CONTRACT	LMSC*SSD6001	P950A	*	F209
COGNIZNT	AFSC	*	*	F209
TIME	00:00:49.0			
VEHICLE	BOOSTER			

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

PROCESS	LMSCNTL1933	P950A	*	F137
CONTRACT	LMSC*SSD6001	P950A	*	F137
COGNIZNT	AFSC	*	*	F137
TIME	00:00:03.5			
VEHICLE	BOOSTER			

PSD DEPENDS
ON TIME,
GIVEN PSD NOT
ALWAYS AT MAX

PROCESS	LMSCNTL1933	P950A	SVAC	T709
CONTRACT	LMSC*SSD6001	P950A	SVAC	T709
COGNIZNT	AFSC	*	*	T709
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SPAT*PH1TST2	ST12
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH1TST2	ST12
COGNIZNT	AFSC	*	*	ST12
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SPAT*PH2TST3	ST23
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH2TST3	ST23
COGNIZNT	AFSC	*	*	ST23
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SPAT*PH3TST2	ST32
CONTRACT	LMSC*SSD6001	P950A	SPAT*PH3TST2	ST32
COGNIZNT	AFSC	*	*	ST32
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCNTL1933	P950A	SVQT	SQTO
CONTRACT	LMSC*SSD6001	P950A	SVQT	SQTO
COGNIZNT	AFSC	*	*	SQTO
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCNTL1933	P950A	SVQT	SQTJ
CONTRACT	LMSC*SSD6001	P950A	SVQT	SQTJ
COGNIZNT	AFSC			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SVAC	AC18
CONTRACT	LMSC*SSD6001	P950A	SVAC	AC18
COGNIZNT	AFSC	*	*	AC18
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

AC18
 ACOUSTIC ACCEPTANCE TEST
 REVERBERANT TEST
 LVET CELL 1

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P950A	SSAT	NPAC
CONTRACT	LMSC*SSD6001	P950A	SSAT	NPAC
COGNIZNT	AFSC	*	*	NPAC
DATE	10/16/76			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SSAT	NIH2
CONTRACT	LMSC*SSD6001	P950A	SSAT	NIH2
COGNIZNT	AFSC	*	*	NIH2
DATE	11/06/76			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P950A	SSAT	S772
CONTRACT	LMSC*SSD6001	P950A	SSAT	S772
COGNIZNT	AFSC	*	*	S772
DATE	09/21/77			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCNTL1933	P950A	SSQT	MDUL
CONTRACT	LMSC*SSD6001	P950A	SSQT	MDUL
COGNIZNT	AFSC	*	*	MDUL
DATE	12/02/69			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-5		
VEHICLE	BOOSTER	*	SCS*MODULE	

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

PROCESS	LMSCNTL1933	P950A	*	F131
CONTRACT	LMSC*SSD6001	P950A	*	F131
COGNIZNT	AFSC	*	*	F131
VEHICLE	BOOSTER			

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

PROCESS	LMSCNTL1933	P950A	*	F231
CONTRACT	LMSC*SSD6001	P950A	*	F231
COGNIZNT	AFSC	*	*	F231
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCNTL1933	IR&D	C8EK	ID09
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID09
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID09
DATE	03/18/81			
TIME	13:01:46.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

PROCESS	LMSCNTL1933	IR&D	C8EK	ID03
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID03
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID03
DATE	03/13/81			
TIME	17:42:56.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

PROCESS	LMSCLVET7640	IR&D	C8EK	ID04
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID04
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID04
DATE	03/16/81			
TIME	16:36:32.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	P252	SVDT	IAT3
CONTRACT	LMSC*SSD3001	P252	SVDT	IAT3
COGNIZNT	HDQT	*	*	IAT3
DATE	11/01/73			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P252	SVDT	P905
CONTRACT	LMSC*SSD3001	P252	SVDT	P905
COGNIZNT	HDQT	*	*	P905
DATE	01/17/74			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

PROCESS	LMSCLVET7640	P252	SVQT	P906
CONTRACT	LMSC*SSD3001	P252	SVQT	P906
COGNIZNT	HDQT	*	*	P906
DATE	10/16/75			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	BOOSTER			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	IR&D	C8EK	ID05
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID05
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID05
DATE	03/16/81			
TIME	17:09:08:.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

1981 ID ACOU 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

PROCESS	LMSCLVET7640	IR&D	C8EK	ID06
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID06
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID06
DATE	03/17/81			
TIME	08:44:02.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

1981 ID ACOU 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

PROCESS	LMSCLVET7640	IR&D	C8EK	ID07
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID07
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID07
DATE	03/17/81			
TIME	09:29:08.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

1981 ID ACOU 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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	IR&D	C8EK	ID08
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID08
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID08
DATE	03/17/81			
TIME	10:35:00.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

PROCESS	LMSCCNTL1933	IR&D	C8EK	ID16
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID16
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID16
DATE	03/19/81			
TIME	12:51:52.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

PROCESS	LMSCCNTL1933	IR&D	C8EK	ID11
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID11
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID11
DATE	3/18/81			
TIME	14:40:46.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCNTL1933	IR&D	C8EK	ID15
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID15
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID15
DATE	03/19/81			
TIME	10:01:40.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

PROCESS	LMSCNTL1933	IR&D	C8EK	ID21
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID21
COGNIZNT	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 ACOU TEST LVET FIL#1631 REVER. EXCIT. LVET C1
 14-FT DIA ALU CYL W/SPECIAL HATCH AND ATTCH LOAD, SPECIMEN IS 4-FT ABOVE
 FLOR, PORTS OPEN: H1, MASSES: ON AND INSTR, INTERNAL FOAM: REMOVED
 PURPOSE: VENT EFFECT, ATTCH LOAD EFFECT, SPECIMEN-2 FT LONG PIPE IN HOLE

PROCESS	LMSCNTL1933	IR&D	C8EK	ID22
CONTRACT	LMSC*SSD6260	IR&D	C8EK	ID22
COGNIZNT	LMSC*SSD6001	IR&D	C8EK	ID22
DATE	03/24/81			
TIME	15:01:44.32			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	EXPERIMENT			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	SPACE-TEL	STDV	STD1
CONTRACT	LMSC*SSD6001	SPACE-TEL	STDV	STD1
COGNIZNT	LMSC*SSD6001	*	*	STD1
DATE	12/03/76			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

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

PROCESS	LMSCLVET7640	SPACE-TEL	STDV	STD2
CONTRACT	LMSC*SSD6001	SPACE-TEL	STDV	STD2
COGNIZNT	LMSC*SSD6001	*	*	STD2
DATE	12/03/76			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

SPACETELESCOPE ACO TEST REVERBERANT EXCITATION LVET CELL 1
 STRUCTURAL DYNAMIC TEST VEHICLE AIR BAG SUSPENSION SYSTEM
 SIMULATED EQUIPMENT
 TEST SPECTRUM BASED ON EARLY OV101 HANGER ACO TEST

PROCESS	LMSCLVET7640	SPACE-TEL	C85A	EAT3
CONTRACT	LMSC*SSD6001	SPACE-TEL	C85A	EAT3
COGNIZNT	NASAMSFC	*	*	EAT3
DATE	6/21/80			
TIME	16:17:06.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

RUN 3 SPECTRUM B
 ALL
 APPENDAGES
 ADDED

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSCLVET7640	SPACE-TEL	C85A	EAT2
CONTRACT	LMSC*SSD6001	SPACE-TEL	C85A	EAT2
COGNIZNT	NASAMSFC			
DATE	6/21/80			
TIME	13:55:30.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

RUN 2 SPECTRUM A
ALL
APPENDAGES
ADDED

PROCESS	LMSCLVET7640	SPACE-TEL	C85A	EAT5
CONTRACT	LMSC*SSD6001	SPACE-TEL	C85A	EAT5
COGNIZNT	NASAMSFC			
DATE	6/22/80			
TIME	9:19:04.0			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

RUN 5 SPECTRUM A
ALL
APPENDAGES
REMOVED

PROCESS	LMSCLVET7640	SPACE-TEL	C85A	EAT6
CONTRACT	LMSC*SSD6001	SPACE-TEL	C85A	EAT6
COGNIZNT	NASAMSFC	*	*	EAT6
DATE	12/01/80			
EVENT	GROUND	REVERBERANT		
LOCATION	LVET	CELL-1		
VEHICLE	SHUTTLE			

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	LMSC	OEX	DATE	OSSL
CONTRACT	NASA-GSFC	OEX	DATE	OSSL
COGNIZNT	NASA	OEX	DATE	OSSL
DATE	03/22/82			
TIME	00:00:06.0			
EVENT	FLIGHT	LIFTOFF		
LOCATION	KSC	LAUNCHPAD39A		
VEHICLE	SHUTTLE	COLUMBIA	OV102	

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'

PROCESS	LMSC	OEX	DATE	OSST
CONTRACT	NASA-GSFC	OEX	DATE	OSST
COGNIZNT	NASA	OEX	DATE	OSST
DATE	03/22/82			
TIME	00:00:45.0			
EVENT	FLIGHT	TRANSONIC		
LOCATION	KSC	LAUNCHPAD39A		
VEHICLE	SHUTTLE	COLUMBIA	OV102	

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'

PROCESS	AEROSPACE	OEX	DATE	STSI
CONTRACT	NASA	OEX	DATE	STSI
COGNIZNT	NASA	OEX	DATE	STSI
DATE	11/11/82			
EVENT	FLIGHT	SSME-IGN	STS5	
LOCATION	KSC	*	STS5	
VEHICLE	SHUTTLE	COLUMBIA	STS5	OV102

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

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	AEROSPACE	OEX	DATE	STSL
CONTRACT	NASA	OEX	DATE	STSL
COGNIZNT	NASA	OEX	DATE	STSL
DATE	11/11/82			
EVENT	FLIGHT	LIFTOFF	STS5	
LOCATION	KSC	*	STS5	
VEHICLE	SHUTTLE	COLUMBIA	STS5	OV102

STS5 FLIGHT DATA
LIFTOFF
OV102 COLUMBIA
AEROSPACE DATA PROCESSING

PROCESS	AEROSPACE	OEX	DATE	STST
CONTRACT	NASA	OEX	DATE	STST
COGNIZNT	NASA	OEX	DATE	STST
DATE	11/11/82			
EVENT	FLIGHT	TRANSONIC	STS5	
LOCATION	KSC	*	STS5	
VEHICLE	SHUTTLE	COLUMBIA	STS5	OV102

STS5 FLIGHT DATA
TRANSONIC
OV102 COLUMBIA
AEROSPACE DATA PROCESSING

PROCESS	NASA-GSFC	OEX	SYS-GRD-TST	OSSG
CONTRACT	NASA	OEX	SYS-GRD-TST	OSSG
COGNIZNT	NASA	OEX	SYS-GRD-TST	OSSG
DATE	09/25/80			
EVENT	GROUND	REVERBERANT	PROTOFLIGHT	
LOCATION	GREENBELT	GSFC	40KCELL	
VEHICLE	OEX	OSS	OSS-1	

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.

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	BOEING	IUS	IUS-STS	RP1
CONTRACT	AIR*FORCE	IUS	*	RP1
COGNIZNT	AEROSPACE	IUS	*	RP1
DATE	08/17/84			
EVENT	GROUND	REVERBERANT		
LOCATION	BOEING	KENT	BLDG18-24	
VEHICLE	ELV	IUS	COMPONENT	PLUME-SHIELD

IUS PLUME SHIELD RUN 145T ACOU 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 ACOU TEST FIXS. RE: CLARK BECK - BOEING - KENT.

PROCESS	BOEING	IUS	IUS-STS	RP2
CONTRACT	AIR*FORCE	IUS	*	RP2
COGNIZNT	AEROSPACE	IUS	*	RP2
DATE	08/17/84			
EVENT	GROUND	REVERBERANT		
LOCATION	BOEING	KENT	BLDG18-24	
VEHICLE	ELV	IUS	COMPONENT	PLUME-SHIELD

IUS PLUME SHIELD RUN 151T ACOU 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 ACOU TEST FIXS. RE: CLARK BECK - BOEING - KENT.

PROCESS	BOEING	IUS	IUS-6	I6T
CONTRACT	AIR*FORCE	IUS	*	I6T
COGNIZNT	AEROSPACE	IUS	*	I6T
DATE	04/29/82			
EVENT	GROUND	REVERBERANT		
LOCATION	BOEING	KENT	BLDG18-24	
VEHICLE	ELV	IUS	IUS-6	

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.

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	NASA-GSFC	ERBS	ACOUSTICTEST	ERBS
CONTRACT	NASA	ERBS		
DATE	06/13/84			
EVENT	GROUND	REVERBERANT	PROTOFLIGHT	
VEHICLE	SHUTTLE			

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

PROCESS	ROCKWELL	NAVSTAR	QPS-QTV	GPSA
CONTRACT	AIRFORCE			
COGNIZNT	AEROSPACE			
DATE	03/10/77			
EVENT	GROUND	REVERBERANT	ACCEPTANCE	
LOCATION	ROCKWELL	CELLB-1		

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.

PROCESS	ROCKWELL	NAVSTAR	GPS-QTV	GPSQ
CONTRACT	AIRFORCE			
COGNIZNT	AEROSPACE			
DATE	03/10/77			
EVENT	GROUND	REVERBERANT	ACCEPTANCE	
LOCATION	ROCKWELL	CELLB-1		

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.

DATA BASE EVENT DESCRIPTIONS
(cont'd)

PROCESS	GE	DSCSIII	ACOU-QUAL	DSCS
CONTRACT	AIRFORCE			
COGNIZNT	AEROSPACE			
DATE	01/01/81			
LOCATION	SPACE	DIV		

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