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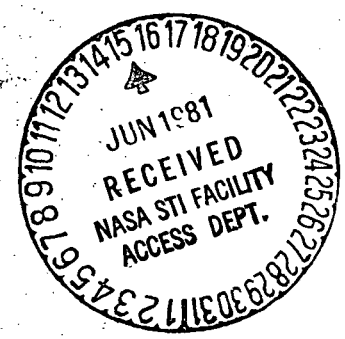
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# NASA TECHNICAL MEMORANDUM

NASA TM-82422

PAYLOAD OPERATIONS CONTROL CENTER (POCC)  
TIMELINE ANALYSIS PROGRAM

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16. ABSTRACT  This document is a user's manual for the operation of the Payload Operations Control Center (POCC) Timeline Analysis Program which is used to provide POCC activity and resource information as a function of mission time. This program is fully automated and interactive, and is equipped with tutorial displays. The tutorial displays are sufficiently detailed for use by a program analyst having no computer experience. The POCC Timeline Analysis Program is designed to operate on the VAX/VMS version V2.1 computer system.					
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## TECHNICAL MEMORANDUM

# PAYLOAD OPERATIONS CONTROL CENTER (POCC) TIMELINE ANALYSIS PROGRAM

### 1.0 INTRODUCTION

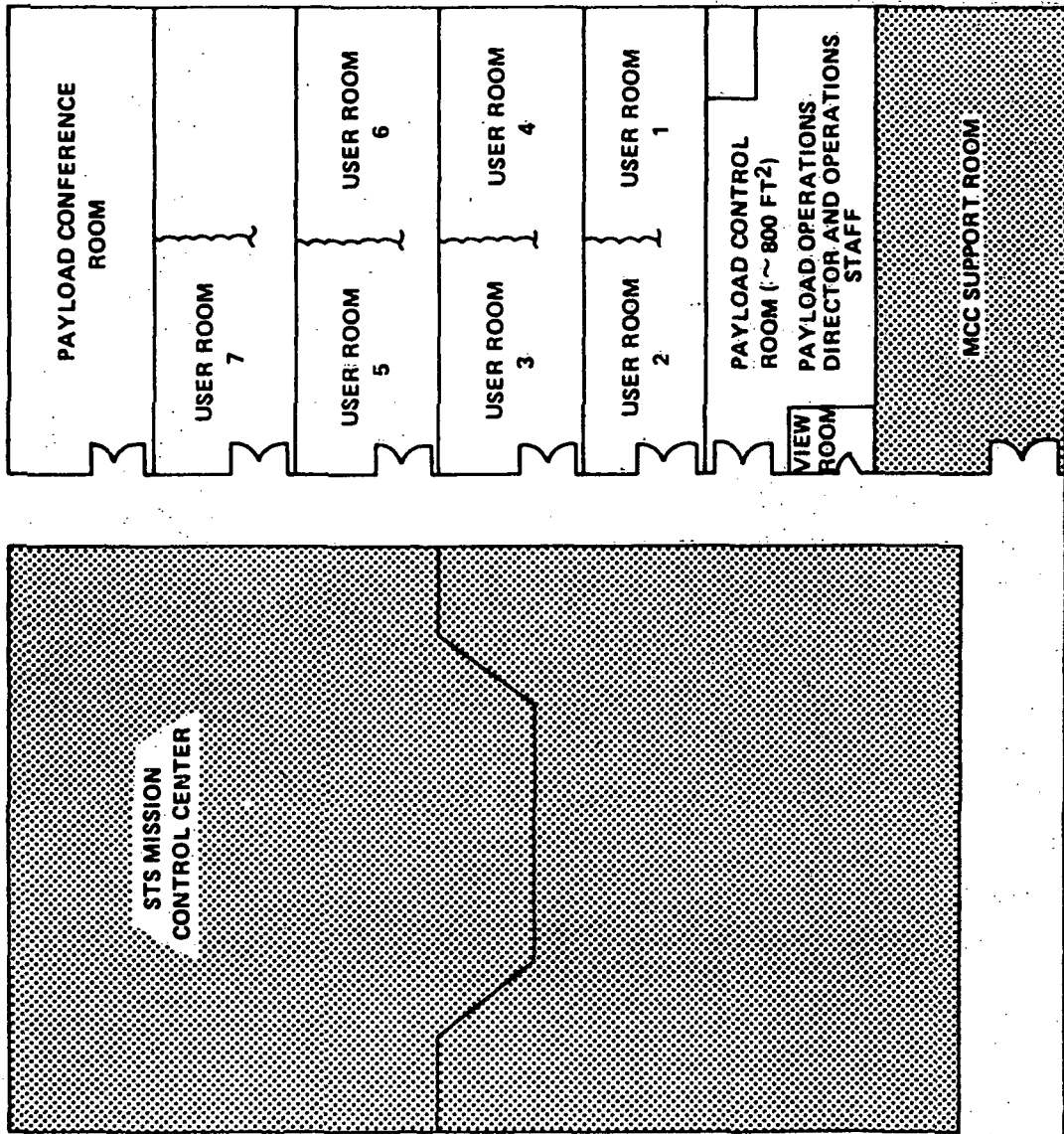
The Payload Operations Control Center (POCC) Timeline Analysis Program provides POCC activity and resource utilization information as a function of mission time. A prototype version of the program will be used to support the Spacelab 1 Flight Operations Review in April 1981. A final version of the program will be developed to support Spacelab 1 Mission Operations.

The design philosophy has been to use structured software techniques to ensure logical and information independence of the software modules. This work has been carried out by the Operations Planning and Analysis Branch (EL12) of the NASA/MSFC, Systems Analysis and Integration Laboratory.

### 2.0 POCC TIMELINE ANALYSIS PROGRAM SYSTEM DESCRIPTION

The POCC Timeline Analysis Program is designed to provide resource utilization reports to be used for scheduling POCC activities within the user rooms and payload control room shown in Figure 1. In this instance, there are a number of experimenters and support personnel (Fig. 2) who are competing for the user rooms and terminals to assess Spacelab mission data being received at the POCC via the data system (Fig. 3). The scheduling process should ensure that the experimenters get maximum opportunity to monitor their own experiments relative to the monitoring opportunities of the other experiments.

The POCC Timeline Analysis Program is basically a Data Base Management System (Fig. 4) from which resource utilization reports can be extracted to be used in scheduling POCC activities. The POCC Timeline Analysis Program is installed in the VAX/VMS version V2.1 computer system. Maximum of the VAX software system is made both in putting data elements into and extracting data elements from the data base. A listing of resource routines (Table A-1) and the data base file structure (Table A-2) are included in Appendix A.



- TYPICAL USER ROOM ( ~ 450 FT<sup>2</sup>)
- CONSOLE AREA ( ~ 150 FT<sup>2</sup>)
- EXPT GSE AREA ( ~ 150 FT<sup>2</sup>)
- WORK AREA ( ~ 150 FT<sup>2</sup>)
  
- TYPICAL CONSOLE AREA IN USER AREA
- 4 BOX CONSOLE
- 3 CRT DISPLAY TERMINALS
- 2 COMMUNICATIONS PANELS
- OVERHEAD VIDEO MONITORS (2)
- STRIP CHART RECORDER (8 PEN)
- COMMAND CAPABILITY
- TWO DIGITAL TV EQUIPMENT (DTE) DISPLAY

Figure 1. POCC facility (preliminary).

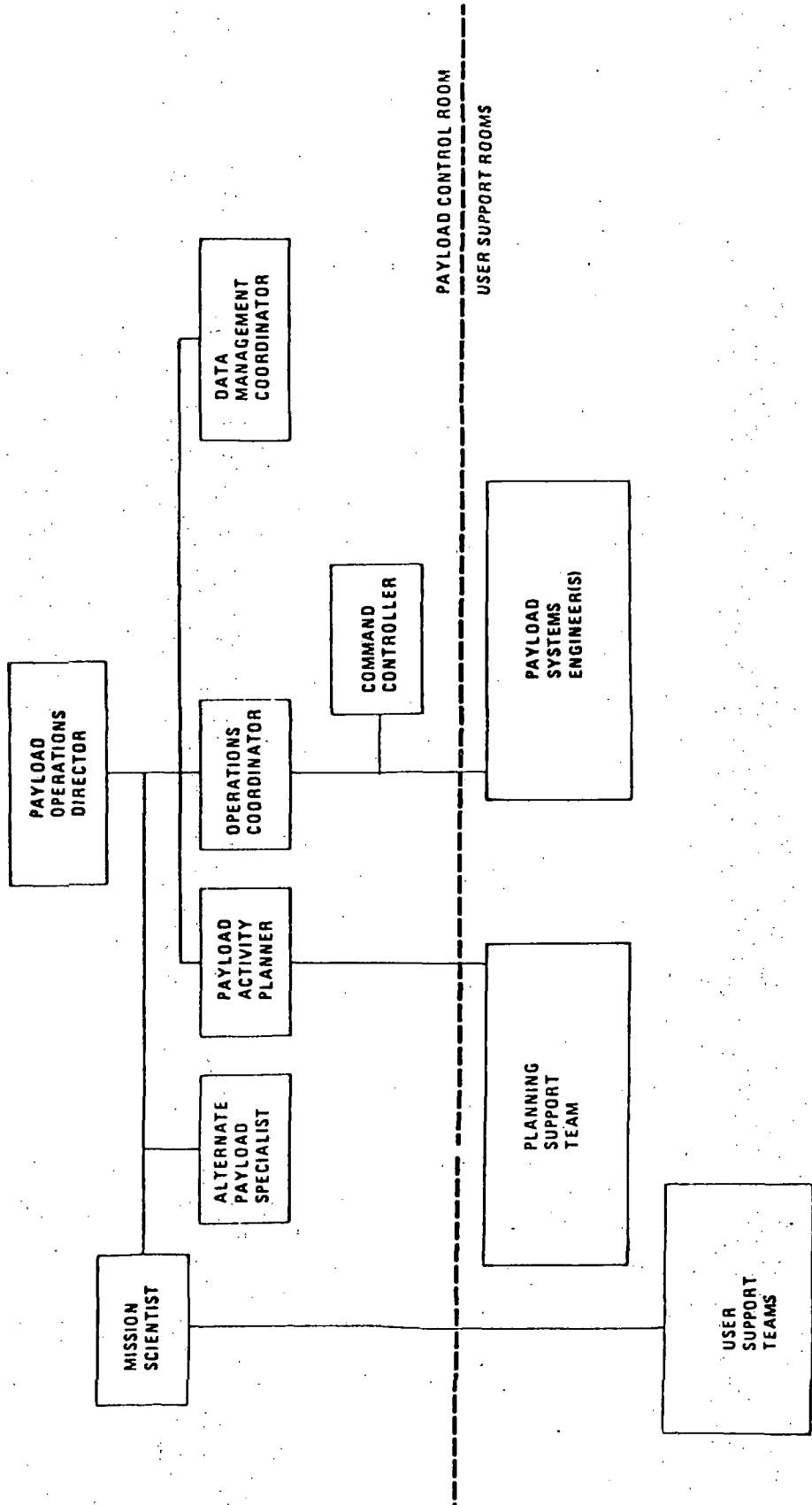


Figure 2. POCC organization.



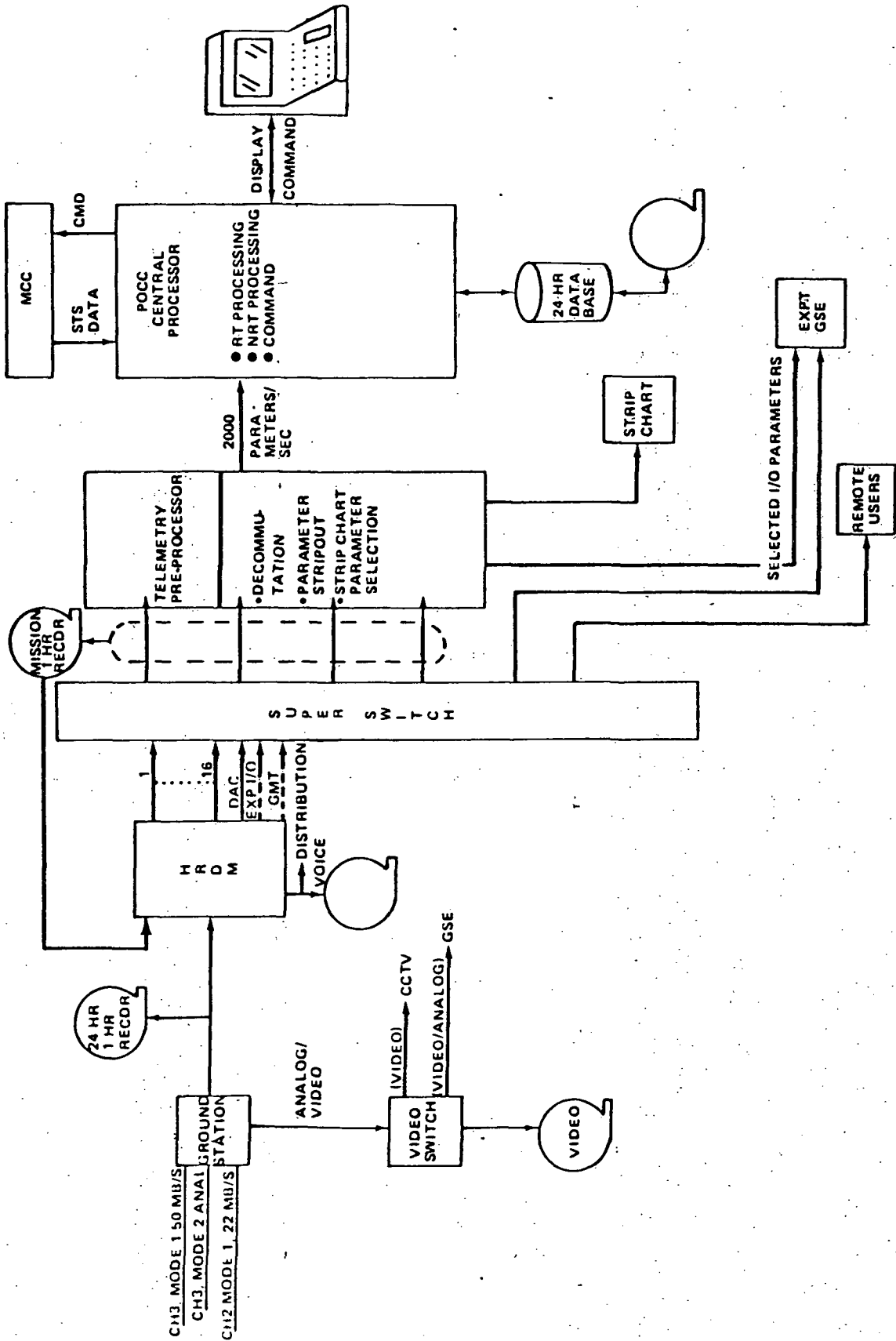


Figure 3. Data system requirements schematic.

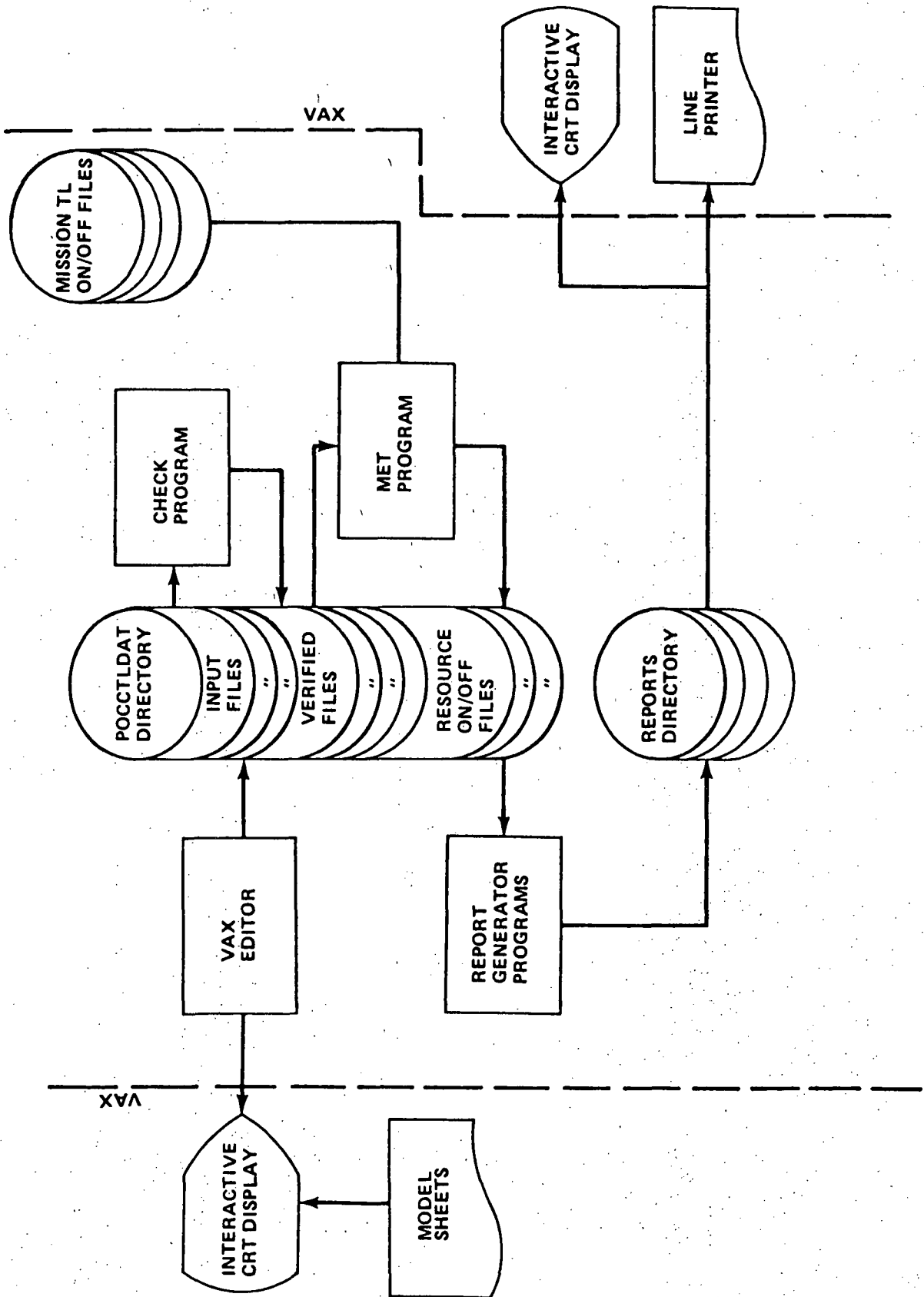


Figure 4. POCC timeline analysis program system flow chart.

Information can be put into the data base using any one of the three editors of the VAX system or by reading the mission TL on/off files provided by EL22 (Fig. 4). However, prior to extracting a report, the user must use two programs to process the data base files. The first program, CHECK, is used to check the syntax of input data and the second program, MET, is used to correlate POCC activities to events occurring in the mission timeline.

The report generator programs can then be used to extract information from the data base and to compile reports. The compiled reports are then filed in a reports directory. At this point the user can operate the VAX system to call any report contained in the directory for viewing at the terminal display or for printing on the VAX line printer.

### 3.0 POCC TIMELINE INPUT CARD

Users of POCC resources are required to specify requirements using the POCC Timeline Input Card Formats described in Table B-1 of Appendix B. Specified user requirements will then be filed in the POCC Timeline Data Base (POCCTLDAT directory) by operations personnel for subsequent use in scheduling POCC activities and assessing POCC resource utilization.

There are 13 Data Input Card Formats (Table B-1) which are available to the user for specifying POCC resource requirements. General rules for use of the card formats are:

(1) The POCC user's resources are described by the POCC timeline input cards within an input file. Each user is defined by one input file. Each file must contain a header card which describes the user, at least one resource card describing resource attributes, and the paired set of initiate (INI) and terminate (TER) cards which denote start and stop time(s) of the resource in question.

(2) Each card has a three-letter mnemonic which can be used to determine the field specification for that card by referring to Table B-2 of Appendix B. Specifications for a completed card are: each intermediate field must be separated by a comma, and the last field must be followed by a semi-colon; a field may contain data up to the field size specified or may be left blank.

Typical examples of each card format are also included in Appendix B.

#### 4.0 POCC TIMELINE ANALYSIS PROGRAM REPORTS

The following reports can be listed from the reports directory using the indicated file name:

File Names	Title
GSESUMMARY.LIS	POCC LOADS SUMMARY
MANSUMMARY.LIS	SUMMARY MANNING ANALYSIS
TMLBYROOM.LIS	ROOM (N) TERMINAL USER LIST
TMLSUMMARY.LIS	TERMINAL UTILIZATION SUMMARY
CMDSUMMARY.LIS	COMMANDING SUMMARY
ATGSUMMARY.LIS	AIR-TO-GROUND VOICE ANALYSIS
CMDWINDOW.LIS	COMMAND WINDOW REQUESTS
MANBYROOM.LIS	ROOM (N) MANNING ANALYSIS
RESSUMMARY.LIS	POCC RESOURCE REQUIREMENTS SUMMARY
CMDSUMERR.LIS	COMMANDING SUMMARY DIAGNOSTICS
<u>EXP No.</u> SUM.REP	POCC USER RESOURCE SUMMARY
<u>EXP No.</u> ENG	POCC TL INPUT (IN ENGLISH)

Examples of all reports are included in Appendix C and the procedure for listing a report is included in Section 5.0.

#### 5.0 POCC TIMELINE ANALYSIS PROGRAM OPERATING PROCEDURES

The POCC Timeline Analysis Program is installed in the VAX/VMS Version V2.1 computer system. The user may utilize standard VAX login and logout procedures to use the POCC Timeline Analysis Program.

The VAX utility programs are available to the user after login. The user may find the HELP command useful to assist in using the utility programs. To use, execute command: \$HELP [RETURN].

To put data into the POCCTLDAT sub directory (Data Base), the user has a choice of three editors SOS, EDI, and EDT which are utility programs in the VAX. Instructions for using these editors are contained in the VAX system manuals.

To validate the POCCTLDAT subdirectory resource input data, the CHECK program is used. The program is tutorial and, upon completion of checking input data, it will put a verified file in the POCCTLDAT subdirectory.

To correlate POCCTLDAT subdirectory verified input files with the mission timeline, the MET program is used. This program is also tutorial and uses the POCCTLDAT directory verified input files. The MET program creates and updates the resource on-off files with the correlated resource timeline data. The resource on-off files reside on the main directory EL121.

To create reports, the nine report programs (ATGSUM, CMDSUM, CMDWIN, MANSUM, MANRM, TMLSUM, TMLRM, RESSUM, and GSESUM) are used. These programs are tutorial and will format the output and store it in the REPORTS subdirectory.

To print POCC inputs in English, the PINPUT program is used. This program is tutorial and puts an English file in the POCCTLDAT subdirectory for review by the user.

Any of these programs can be run by typing in its global symbol, e.g., \$CHECK [RETURN]. The program's global symbols and titles are:

Global Symbol	Title
CHECK	POCC INPUT SYNTAX CHECKING PROGRAM
MET	POCC MET CORRELATION PROGRAM
PINPUT	PRINT POCC INPUTS IN ENGLISH PROGRAM
ATGSUM	AIR-TO-GROUND SUMMARY REPORT PROGRAM
CMDSUM	COMMANDING SUMMARY REPORT PROGRAM
CMDWIN	COMMAND WINDOW REPORT PROGRAM
MANSUM	MANNING SUMMARY REPORT PROGRAM
MANRM	MANNING BY ROOM REPORT PROGRAM
TMLSUM	TERMINAL SUMMARY REPORT PROGRAM
TMLRM	TERMINAL BY ROOM REPORT PROGRAM
RESSUM	POCC RESOURCE REQUIREMENTS SUMMARY PROGRAM
GSESUM	GSE LOADS SUMMARY PROGRAM

To aid the user, examples of using the programs are included in Appendix D.

**APPENDIX A**  
**POCC RESOURCE ROUTINES AND FILE STRUCTURE**

TABLE A-1

ROUTINES FOR DECODING FIELDS FROM POCC RESOURCE INPUT  
CARDS IMAGES.

- 1) CALL CFIELD(CARD,IFNO,IOPT,FIELD,IERR)
- 2) CALL IFIELD(CARD,IFNO,MAXL,IOPT,NFIELD,IERR)
- 3) CALL RFIELD(CARD,IFNO,MAXL,IOPT,XFIELD,IERR)

THE FIRST ROUTINE (CFIELD) DECODES AN ALPHANUMERIC DATA FIELD FROM A CARD IMAGE. ROUTINE IFIELD DECODES INTEGER DATA FROM A FIELD. AND ROUTINE RFIELD DECODES REAL DATA FROM A FIELD.

A CARD IMAGE IS DEFINED A SET OF UP TO 80 CHARACTERS WITH FIELDS DENOTED BY COMMAS AND THE CARD IMAGE ENDING WITH A SEMI-COLON.

CALLING ARGUMENTS:

- CARD - A CHARACTER STRING VARIABLE CONTAINING THE CARD IMAGE TO BE DECODED. THIS VARIABLE MUST BE DECLARED AS:  
CHARACTER\*80 BY THE CALLING PROGRAM.
- IFNO - A INTEGER\*4 VARIABLE OR CONSTANT THAT DENOTES THE FIELD NUMBER THAT IS TO BE DECODED. ( IFNO > 0 ).
- IOPT - AN INTEGER\*4 VARIABLE OR CONSTANT WHICH MEANS:
  - =1 . THE FIELD IS OPTIONAL
  - =0 . THE FIELD IS NOT OPTIONAL
- MAXL - AN INTEGER\*4 VARIABLE OR CONSTANT WHICH DENOTES THE MAXIMUM FIELD WIDTH ( NUMBER OF CHARACTERS) TO BE ALLOWED. THIS ARGUMENT IS USED ONLY IN ROUTINES IFIELD AND RFIELD.

TABLE A-1. (Concluded)

RETURNED ARGUMENTS:

FIELD - (ROUTINE CFIELD) - A CHARACTER\*(length) VARIABLE THAT WILL CONTAIN THE DECODED DATA FROM THE SPECIFIED FIELD. IF AN ERROR OCCURS, FIELD WILL BE FILLED WITH BLANKS.

NOTE: THE CALLING PROGRAM MUST DECLARE FIELD TO BE CHARACTER\*(length), WHERE length IS THE MAXIMUM FIELD WIDTH.

NIFIELD - (ROUTINE IFIELD) - AN INTEGER\*4 VARIABLE THAT WILL CONTAIN THE DECODED INTEGER DATA FROM THE SPECIFIED FIELD. IF AN ERROR OCCURS, IFIELD WILL BE EQUAL TO ZERO.

XFIELD - (ROUTINE RFIELD) - A REAL\*4 VARIABLE THAT WILL CONTAIN THE DECODED REAL DATA FROM THE SPECIFIED FIELD. IF AN ERROR OCCURS, XFIELD WILL BE EQUAL TO 0.0.

IERR - THE RETURNED ERROR STATUS. THE VALUES AND DESCRIPTION ARE AS FOLLOWS (NOTE: THE ROUTINE WHICH RETURNS THE VALUE IS IN PARENTHESIS):

- = -1 , OPTIONAL FIELD IS EMPTY. (ALL)
- = 0 , NORMAL RETURN (ALL)
- = 1 , FIELD NOT FOUND (ALL)
- = 2 , NO SEMI-COLON FOUND (ALL)
- = 3 , NOT INTEGER DATA IN THE (IFIELD) FIELD.
- = 4 , NOT REAL DATA IN THE (RFIELD) FIELD.
- = 5 , FIELD IS GREATER THAN (IFIELD AND RFIELD) MAXL CHARS.



TABLE A-2

SUBROUTINES FOR ENCODING AND DECODING CHARACTER DATA FROM  
A MIPS SUBJECT OR ON/OFF DATA ARRAY.

- 1) CALL TRANC\_R(STRING,IST,IEND,ARRAY)
- 2) CALL TRANR\_C(ARRAY,IST,IEND,STRING)

WHERE:

STRING - IS A CHARACTER VARIABLE WHICH CONTAINS:  
1) THE CHARACTER DATA TO BE ENCODED INTO THE  
ARRAY, OR  
2) THE DECODED CHARACTER DATA FROM THE ARRAY.

NOTE: THE CHARACTER VARIABLE 'STRING' MUST HAVE  
A DECLARED LENGTH IN MULTIPLES OF 4 BYTES.

ARRAY - IS THE MIPS SUBJECT OR ON/OFF RECORD DATA ARRAY,  
AND MUST BE DIMENSIONED AS: REAL\*4 ARRAY(15).

IST - IS THE STARTING WORD NUMBER OF THE ARRAY TO BE  
ENCODED OR DECODED.

IEND - IS THE ENDING WORD NUMBER OF THE ARRAY TO BE  
ENCODED OR DECODED.

EXAMPLES:

- 1) THE ARRAY 'DATA' CONTAINS THE ON/OFF RECORD DATA FROM WHICH  
YOU WANT THE USER/EXPT NAME.

```
CHARACTER EXPT_NAME*8  
REAL*4 DATA(15)
```

·  
·  
·

```
CALL TRANR_C(DATA,5,6,EXPT_NAME)
```

THE SUBROUTINE TRANR\_C DECODES WORDS 5 & 6 AND PLACES THE  
CHARACTER DATA THAT IS IN THOSE WORDS INTO THE CHARACTER STRING  
VARIABLE 'EXPT\_NAME'.

TABLE A-2. (Concluded)

2) TO PLACE THE EXPT\_NAME INTO THE DATA ARRAY.

·  
·  
CALL TRANC\_R(EXPT\_NAME,5,6,DATA)

THUS THE CHARACTER DATA IN THE CHARACTER STRING 'EXPT\_NAME' IS ENCODED INTO WORDS 5 & 6 OF THE DATA ARRAY.

NOTE: NEITHER OF THE ROUTINES WILL HARM ANY OF THE DATA RESIDING IN THE OTHER WORDS OF THE DATA ARRAY.

TABLE A-3

ROUTINES TO ACCESS SUBJECT NAMES OR SUBJECT NUMBERS FROM  
A RESOURCE ON/OFF FILE.

1) TO GET THE SUBJECT NUMBER GIVEN THE SUBJECT NAME:

CALL GET\_SUB\_NUM(LUN,FID,SNAME,NS)

WHERE:

- LUN - IS THE LOGICAL UNIT NUMBER YOU HAVE OPENED THE RESOURCE ON/OFF FILE.
- FID - IS THE 12 CHARACTER FILE ID THAT SUBROUTINE READOF USES FOR ERROR MESSAGES.
- SNAME - IS THE 8 CHARACTER SUBJECT NAME THAT YOU WISH TO GET THE SUBJECT NUMBER FOR.
- NS - IS THE RETURNED SUBJECT NUMBER. NS WILL BE EQUAL TO ZERO (0) IF THE SUBJECT NAME CANNOT BE FOUND.

2) TO GET THE SUBJECT NAME GIVEN THE SUBJECT NUMBER:

CALL GET\_SUB\_NAME(LUN,FID,NS,SNAME,\*STMT)

WHERE:

- LUN - (SAME AS ABOVE)
- FID - (SAME AS ABOVE)
- NS - IS THE SUBJECT NUMBER YOU WISH TO FIND THE SUBJECT NAME FOR.
- SNAME - IS THE RETURNED 8-CHARACTER SUBJECT NAME.
- \*STMT - IS AN ALTERNATE RETURN PATH THAT IS USED IF THE SUBJECT NUMBER (AND NAME) CANNOT BE FOUND IN THE FILE.

TABLE A-4

SUBROUTINE TO OPEN A POCC RESOURCE ON/OFF FILE

CALL OPEN\_OLDRES(LUN,NUMRES,FID,\*STMT)

WHERE:

- LUN - IS THE LOGICAL UNIT NUMBER YOU WISH TO OPEN THE ON/OFF FILE WITH.
- NUMRES - IS AN INTEGER NUMBER SPECIFYING WHICH RESOURCE FILE YOU WISH TO OPEN.
- |         |         |
|---------|---------|
| 1 = A/G | 2 = MAN |
| 3 = CMD | 4 = TML |
| 5 = RTD | 6 = GSE |
| 7 = PBD |         |
- FID - IS THE RETURNED 12 CHARACTER STRING THAT IS USED WHEN CALLING ROUTINE READOF.
- \*STMT - IS THE ALTERNATE RETURN PATH IF THE ROUTINE CANNOT FIND THE SPECIFIED RESOURCE ON/OFF FILE. ( THIS MEANS THAT THE RESOURCE FILE HAS NOT BEEN CREATED.)

TABLE A-5

ROUTINES TO ACCESS THE ON/OFF DATA FROM A RESOURCE  
ON/OFF FILE.

THERE ARE SEVEN SUBROUTINE IN THE POCCLIB THAT ACCESS THE SEVEN DIFFERENT POCC RESOURCE ON/OFF FILES. THE FOLLOWING VARIABLES ARE COMMON TO ALL OF THE ROUTINES (I.E., THEY APPEAR IN ALL OF THE CALL STMTS.) AND THEY ARE DESCRIBED AS FOLLOWS:

- LUN - IS THE LOGICAL UNIT NUMBER YOU USED TO OPEN THE FILE WITH.
- USER - IS THE 8-CHARACTER USER/EXPT. NAME YOU WISH TO ACCESS ON/OFF DATA FOR (IN MODE=3). OR IT IS THE RETURNED USER/EXPT NAME FROM THE ON/OFF DATA WHEN ACCESSED IN MODE=5.
- MODE - IS THE ACCESS MODE.  
3 = ACCESS THE FILE FORWARD BY ON TIME JUST FOR THE SPECIFIED USER NAME.  
5 = ACCESS THE FILE FORWARD BY ON TIME REGARDLESS OF THE USER/EXPT NAME.
- IREC - IS THE RELATIVE RECORD NUMBER THAT YOU WANT TO ACCESS. ON SEQUENTIAL CALLS, IF YOU HAVE NOT CHANGED IREC, THEN THE ROUTINE WILL AUTOMATICALLY INCREMENT IREC AND ACCESS THE NEXT ON/OFF RECORD.  
  
IF YOU WISH TO ACCESS ALL ON/OFF RECORDS, THEN JUST SET IREC EQUAL TO 1, AND ON SEQUENTIAL CALLS IT WILL AUTOMATICALLY INCREMENT THRU ALL OF THE RECORDS YOU WANT DEPENDING ON THE MODE.
- ON - IS THE RETURNED ON TIME (HRS.). THIS IS A REAL\*4 VARIABLE.
- OFF - IS THE RETURNED OFF TIME (HRS.) ALSO REAL\*4 .
- ITPT - IS THE RETURNED ACTIVITY TEXT POINTER.
- IERR - IS THE ERROR STATUS FLAG. ITS VALUES ARE:  
0 = NO ERROR  
1 = END OF FILE OR END OF SUBJECT  
2 = BAD USER/EXPT NAME GIVEN (ONLY MODE 3 ACCESS)  
3 = INVALID MODE (NE 3 OR 5)  
4 = FILE NOT TIME ORDEPED (ONLY MODE 5 ACCESS)

TABLE A-5. (Continued)

1) AIR-TO-GROUND

CALL ATG(LUN,USER,MODE,IREC,ON,OFF,IDRFLG,ITPT,IERR)

THIS ROUTINE ACCESS THE AIR-TO-GROUND ON/OFF FILE AND RETURNS THE ON,OFF TIMES, THE TEXT POINTER, AND THE FOLLOWING:

IDRFLG - IS THE DESIRED/REQUIRED FLAG  
0 = MEANS A/G IS DESIRED  
1 = MEANS A/G IS REQUIRED

2) MANNING

CALL MAN(LUN,USER,MODE,IREC,ON,OFF,GROUPID,NUMPER,  
1 NROOM,ITPT,IERR)

WHERE:

GROUPID - IS THE 12-CHARACTER GROUP-ID NAME.

NUMPER - IS THE NUMBER OF PERSONS.

NROOM - IS THE POCC ROOM NUMBER.

3) COMMANDING

CALL CMD(LUN,USER,MODE,IREC,ON,OFF,NTP,NTS,NHZ,  
1 NCR,NROOM,ITPT,IERR)

WHERE:

NTP - IS THE NUMBER OF THRU-PUT COMMANDS.

NTS - IS THE NUMBER OF TWO-STAGE COMMANDS.

NHZ - IS THE NUMBER OF HAZARDOUS COMMANDS.

NCR - IS THE NUMBER OF CRITICAL COMMANDS.

NROOM - IS THE POCC ROOM NUMBER.

TABLE A-5. (Continued)

4) POCC TERMINAL USAGE

CALL TML(LUN,USER,MODE,IREF,ON,OFF,NUMTML,NROOM,  
1 NUSAGE,ITPT,IERR)

WHERE:

NUMTML - IS THE NUMBER OF TERMINALS BEING USED.

NROOM - IS THE POCC ROOM NUMBER.

NUSAGE - IS THE TERMINAL USAGE TYPE.

1 = CMD ONLY	9 = NRT,CMD
2 = MON ONLY	10 = NRT,MON
3 = CMD,MON	11 = NRT,CMD,MON
4 = DMP ONLY	12 = NRT,DMP
5 = DMP,CMD	13 = NRT,DMP,CMD
6 = DMP,MON	14 = NRT,DMP,MON
7 = DMP,CMD, MON	15 = NRT,DMP,CMD, MON
8 = MON ONLY	

5) REAL-TIME DATA

SUBROUTINE RTD(LUN,USER,MODE,IREF,ON,OFF,NPHID,NSOURCE,  
1 NDEST,ITPT,IERR)

WHERE:

NPHID - IS THE PHASE-ID NUMBER

NSOURCE - IS THE SOURCE TYPE

0 = Unknown	1 = ECIO
2 = DCHN	3 = BOTH ECIO AND DCHN

NDEST - IS THE DESTINATION TYPE

0 = Unknown	1 = GSE
2 = RTD	3 = NRT

TABLE A-5. (Concluded)

6) GROUND SUPPORT EQUIPMENT

CALL GSE(LUN,USER,MODE,IREC,ON,OFF,MACHLB,NROOM,  
1 HEAT,POWER,ITPT,IERR)

WHERE:

- MACHLB - IS THE 12-CHARACTER GSE MACHINE LABEL.
- NROOM - IS THE POCC ROOM NUMBER.
- HEAT - IS THE HEAT LOAD (REAL\*4) VALUE IN KBTU/hr.
- POWER - IS THE POWER LOAD (REAL\*4) VALUE IN KVA.

7) PLAYBACK DUMP

CALL PBD(LUN,USER,MODE,IREC,ON,OFF,NPHID,NSOURCE,  
1 NDEST,NVOICE,ITPT,IERR)

WHERE:

- NPHID - IS THE PHASE-ID NUMBER.
- NSOURCE - IS THE SOURCE TYPE.  
(SAME VALUES AS RTD)
- NDEST - IS THE DESTINATION TYPE.  
(SAME VALUES AS RTD)
- NVOICE - IS THE VOICE PLAYBACK FLAG.  
0 = MEANS NOT VOICE PLAYBACK  
1 = IS VOICE PLAYBACK



TABLE A-6

ROUTINE TO READ A PARTICULAR TARGET ON/OFF DATA  
FROM THE TARGET ON/OFF FILE.

CALL TARGET(LTAR, TAR, IREC, IORD, ON, OFF, DUR, IERR)

WHERE:

- LTAR - IS THE LOGICAL UNIT NUMBER USED TO OPEN THE TARGET ON/OFF FILE.
- TAR - IS THE 8-CHARACTER NAME OF THE TARGET YOU WANT TO ACCESS.
- IREC - IS THE RELATIVE RECORD NUMBER YOU WISH TO ACCESS. IF YOU SET IT EQUAL TO 1 AND DO NOT CHANGE IREC ON SEQUENTIAL CALLS, THEN THE ROUTINE WILL AUTOMATICALLY INCREMENT (OR DECREMENT) TO ACCESS THE NEXT (OR PREVIOUS) ON/OFF RECORD.
- IORD - IS THE FORWARD/BACKWARD INDICATOR IF IORD.LT.0, ON/OFF RECORDS ARE ACCESSED BY DECREASING ON TIME. IF IORD.GE.0, ON/OFF RECORDS ARE ACCESSED BY INCREASING ON TIME.
- (NOTE: YOU CANNOT GO BACKWARDS THRU ON/OFF RECORDS UNLESS YOU HAVE PREVIOUSLY GONE FORWARD THRU SOME OF THEM.)
- ON - IS THE RETURNED ON TIME (HRS.) (REAL\*4 VARIABLE)
- OFF - IS THE RETURNED OFF TIME (HRS.) (REAL\*4 VARIABLE)
- DUR - IS THE RETURNED DURATION (MIN.) (REAL\*4 VARIABLE)
- IERR - IS THE ERROR STATUS FLAG  
0 = NO ERROR  
1 = END OF PARTITION (FORWARD ACCESS)  
OR TOP OF PARTITION (BACKWARD ACCESS)  
2 = TARGET NOT FOUND

TABLE A-7

ROUTINE TO GET THE ACTIVITY TEXT STRING  
ASSOCIATED WITH AN ON/OFF RECORD

CALL ACT\_TEXT(LTEXT,ITPT,TEXT)

WHERE:

LTEXT - IS THE LOGICAL UNIT NUMBER  
USED TO OPEN THE TEXT FILE.

ITPT - IS THE TEXT POINTER WHICH  
WAS OBTAINED ALONG WITH THE  
ON/OFF DATA.

TEXT - IS THE RETURNED ACTIVITY TEXT  
STRING.  
(NOTE: TEXT IS A CHARACTER STRING  
VARIABLE WHOSE LENGTH CAN BE SET  
BY THE CALLING PROGRAM FROM 1-80)

TO OPEN THE TEXT FILE IN THE CALLING PROGRAM USE:

```
OPEN(UNIT=LTEXT,NAME='(EL121)TEXT.DAT',TYPE='OLD',  
* ACCESS='DIRECT',RECORDSIZE=21,READONLY,ERR=___)
```

WHERE YOU FILL IN THE ERP CLAUSE IF THE TEXT FILE  
HAS NOT BEEN CREATED.

TABLE A-8

ROUTINE TO CONVERT AN ON OR OFF TIME INTO A  
CHARACTER STRING FORMAT OF (HHH:MM)

CALL TIME\_C(TIME,STRING)

WHERE:

TIME - IS AN ON OR OFF TIME YOU WISH  
TO CONVERT. (REAL\*4) (HRS.)

STRING - IS THE RETURNED 6-CHARACTER  
STRING CONTAINING THE TIME  
CONVERTED INTO HHH:MM.

NOTE: THE MINUTES PORTION (:MM) WILL NOT  
CONTAIN ANY BLANKS, THEREFORE 1 MINUTE  
WILL BE REPRESENTED AS :01 .

## TABLE A-9

### POCC Resource ON/OFF File Structure

The POC Resource ON/OFF files have been structured such that they are compatible with MIPs ON/OFF files and so that they may be used with existing software to manipulate the generated POC Resource ON/OFF data.

#### 1.0 Subject Records

The subject records in all of the POC Resource ON/OFF files have the same structure. Each subject record consists of an array of 15 words ( REAL\*4 ) with the following structure:

- |      |        |  |
|------|--------|--|
| Word | 1 -    | Not used.  |
|      | 2 -    | Denotes miscellaneous subject type ( = 0. )  |
|      | 3-4 -  | An 8-character name of the user/expt.  |
|      | 5 -    | The resource type number, where:<br>1. = Air-to-ground (A/G)<br>2. = Manning (MAN)<br>3. = Commanding (CMD)<br>4. = Terminal Usage (TML)<br>5. = Real-time data (RTD)<br>6. = Gnd Support Equip. (GSE)<br>7. = Playback Dump (PBD) |
|      | 6 -    | Header Card Text pointer for the subject.  |
|      | 7-15 - | Not used.  |

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TABLE A-9. (Continued)

2.0 ON/OFF Data Records

An ON/OFF data record also consists of an array of 15 words, but note that words 8-15 have a different structure depending on which PCCC resource is being described. Conversely, words 1-7 of each ON/OFF data record has the same structure regardless of the resource type, which is as follows:

- Word 1 - Partition number (used by read package)
- 2 - ON time (hrs.)
- 3 - OFF time (hrs.)
- 4 - Duration (min.)
- 5-6 An 8-character name of the user/expt.
- 7 - An Associated text pointer (points to the resource activity text in the associated text file.)

The following sections will describe words 8-15 for each PCCC resource type.

2.1 A/G ON/OFF Data Records

- Word 8 - Desired/Required Flag
  - 0. = Desired
  - 1. = Required
- 9-15 Not used.

2.2 MAN ON/OFF Data Records

- Word 8-10 - A 12-character group-id name
- 11 - Number of persons
- 12 - Room number
- 13-15 Not used.

TABLE A-9. (Continued)

2.3 CMD ON/OFF Data Records

Word	8 -	Number of Thru-out commands
	9 -	Number of Two-stage commands
	10 -	Number of Hazardous commands
	11 -	Number of Critical commands
	12 -	Room number
	13-15	Not used.

2.4 TEL ON/OFF Data Records

Word	8 -	Number of terminals used
	9 -	Room number
	10 -	Terminal usage type
		1. = CMD only
		2. = MON only
		3. = CMD, MON
		4. = DMP only
		5. = DMP, CMD
		6. = DMP, MON
		7. = DMP, CMD, MON
		8. = NRT only
		9. = NRT, CMD
		10. = NRT, MON
		11. = NRT, CMD, MON
		12. = NRT, DMP
		13. = NRT, DMP, CMD
		14. = NRT, DMP, MON
		15. = NRT, DMP, CMD, MON

2.5 RTD ON/OFF Data Records

Word	8 -	Phase number
	9 -	Source type
		0. = Unknown
		1. = ECIO
		2. = DCNN
		3. = BOTH
	10 -	Destination type
		0. = Unknown
		1. = GSE
		2. = RTD
		3. = NRT
	11-15	Not used.

TABLE A-9. (Concluded)

2.6 GSE ON/OFF Data Records

Word	8-10	GSE Machine label (12 chers.)
	11 -	Room number
	12 -	Heat load (kBTU/hr)
	13 -	Power load (kVa)
	14-15	Not used.

2.7 PBD ON/OFF Data Records

Word	8 -	Phase number
	9 -	Source type (values same as RTD)
	10 -	Destination type (values same as RTD)
	11 -	Voice Playback flag 0. = NO 1. = YES
	12-15	Not used.

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**APPENDIX B**

**POCC TIMELINE INPUT CARD FORMAT AND  
FIELD SPECIFICATION**



## POCC TIMELINE INPUT CARD FORMAT AND FIELD SPECIFICATION

Tables B-1 and B-2 describe the formats for the individual POCC resource input cards. The resource input cards for a particular user must be located in one distinct file with the user/experiment name used as the filename and a filetype of .INP (Example: ES200.INP).

Within an input file, the input cards are denoted by a 3-letter mnemonic beginning in column 1, and each succeeding field is denoted by commas, with the card ending with a semi-colon. There must be no intervening spaces except those that naturally exist in a textual field. Fields denoted in Table B-2 as "required" must contain appropriate data, and fields denoted as "optional" can be empty (i.e., two successive commas).

TABLE B-1. POCC TIMELINE INPUT CARD FORMAT

Card Name	Field Format
Header (HDR) Initiate (INI) Terminate (TER) Periodic (PER) Duplicate (DUP) Comment (***) Air to Ground (A/G) Manning (MAN) Command (CMD) Real Time Data (RTD) Playback/Dump (PBD) Terminal (TML) GSE (GSE)	HDR, Exp, Chg No., Chg Date, Contact, TL Ref., Eqpt Desc; INI, Model, Step No., S/E, Run No., Target, Target Ref., Delta Time; TER, Model, Step No., S/E, Run No., Target, Target Ref., Delta Time; PER, Period, Target, Duration; DUP; ***, Comment; A/G, REQ/DES, Activity Text; MAN, Grp ID, No. People, Room No., Activity Text; CMD, No. Thruput, No. Two-Stage, No. Haz, No. Crit, Room No., Activity Text/ RTD, Phase No., *Source, **Dest, Activity Text; PBD, Phase No., *Source, **Dest, VOICE, Activity Text; TML, No. Term, Room No., ***CMDN, Activity Text; GSE, Mach Label, Room No., Heat Load, Power Load, Activity Text;
Choose one: *Sources ECIO DCHN BOTH	Choose one or combination of: **Symbol <u>Activity</u> C                  Command M                  Monitor D                  Dump N                  Near Real Time

TABLE B-2. POCC RESOURCE INPUT CARDS-FIELD SPECIFICATION

Card Type	Field Name	Maximum Size (Characters)	Required or Optional	Field Type	Field Description	
HDR	HDR	3	Req.	Char.	Mnemonic 'HDR' denoting header card; must start in col. 1.	
	Expt-name	8	Req.	Char.	The user/Expt. name	
	Chg-no.	2	Req.	Integer	Resource Input Change number (0-99)	
	Chg-date	9	Req.	Char.	Resource Input Change date in format DD-MON-YY (example: 15-JAN-81)	
	Contact	12	Req.	Char.	Person to contact regarding expt.	
	MTL-ref	12	Req.	Char.	Identifies which mission timeline (MTL) was used to make resource inputs. At present, the date (MM/YR) of the MTL is used.	
	Expt-Desc	20	Req.	Char.	Title or description of user/expt.	
	INI	INI	3	Req.	Char.	Mnemonic 'INI' (initiate card). Must start in column 1.
	Model-name	8	Req.	Char.	MTL model name used to determine resource's start time.	
	Stop No.	2	Req.	Integer	MTL step number; used with model name to determine resource's start time.	
INI	S/E-char	1	Req.	Char.	'S' means use model/step start time. 'E' means use mode/step end time as resource's start time.	
	Run No.	2	Opt.	Integer	Specifies which occurrence of MTL mode 1/step to use. Empty field or zero means use all occurrences.	
	Target Name	8	Opt.	Char.	Specifies MTL target name; the resource's start time is determined as the nth target occurrence from the model/step time.	
	Target Ref.	3	Opt.	Integer	Specifies the nth target occurrence with a negative value (-n) meaning before model/step time. A zero means use model/step time if time is within a target start/stop, else use next target occurrence.	
	Delta time	20	Opt.	Real	Specifies a delta time in decimal hours to be added (+DT) or subtracted (-DT) from computed resource start time.	

TABLE B-2. (Continued)

Card Type	Field Name	Maximum Size (Characters)	Required or Optional	Field Type	Field Description
TER	TER	3	Req.	Char.	Mnemonic 'TER' meaning terminate card; must start in col. 1.
	Model-name	8	Req.	Char.	Same as INI but for resource's end time.
	Step. No.	2	Req.	Integer	Same as INI but for resource's end time.
	S/E-char.	1	Req.	Char.	Same as INI but for resource's end time.
	Run-No.	2	Opt.	Integer	Same as INI but for resource's end time.
	Target-Name	8	Opt.	Char.	Same as INI but for resource's end time.
	Target-Ref	3	Opt.	Integer	Same as INI but for resource's end time.
	Delta time	20	Opt.	Real	Same as INI but for resource's end time.
	PER	3	Req.	Char.	Mnemonic 'PER' meaning periodic card, must start in column 1.
	Period	20	See Note	Real	Specifies the period of time (in hours) between rescheduling of the resource within a timeframe described by INI/TER data.
	Target-name	8	See Note	Char.	Specifies the MTL target to use to correlate rescheduling of the resource within a timeframe described by INI/TER data.
(Note: Fields 'period' and 'target-name' are mutually exclusive. You cannot use both, but you must use one or the other.)					
	Duration	20	Req.	Real	Specifies the duration of the resource usage in hours.

TABLE B-2. (Continued)

Card Type	Field Name	Maximum Size (Characters)	Required or Optional	Field Type	Field Description
DUP	DUP	3	Required	Char.	Mnemonic 'DUP' meaning duplicate card; must start in col. 1.
***	Comment	3	Req.	Char.	Mnemonic '***' means comment card; must start in col. 1. This card type is not processed by programs CHECK or MET.
A/G	A/G	3	Req.	Char.	Mnemonic 'A/G' means Air-to-ground resource card; must start in col. 1.
	Required/Desired	3	Req.	Char.	'REQ' means Air-to-ground voice required. 'DES' means Air-to-ground voice desired.
	Act. Text	20	Opt.	Char.	Resource activity text
MAN	MAN	3	Req.	Char.	Mnemonic 'MAN' meaning manning resource card; must start in col. 1.
	Group id.	12	Req.	Char.	Manning group/shift identifier
	= persons	2	Req.	Integer	Number of persons allocated.
	Room No.	2	Req.	Integer	POCC room # group occupies.
	Act. Text	20	Opt.	Char.	Resource Activity Text
CMD	CMD	3	Req.	Char.	Mnemonic "CMD" meaning commanding resource; must start in col. 1.
	= Thruput	3	Req.	Integer	0-999, number of thruput commands to be sent.
	= Two-stage	3	Req.	Integer	0-999, number of two-stage commands to be sent.
	= Hazardous	3	Req.	Integer	0-999, number of hazardous commands to be sent.
	= Critical	3	Req.	Integer	0-999, number of critical commands to be sent.
	Room #	1	Req.	Integer	POCC room number from which commands will be sent
	Act. Text	20	Opt.	Char.	Resource Activity Text

TABLE B-2. (Continued)

Card Type	Field Name	Maximum Size (Characters)	Required or Optional	Field Type	Field Description
RTD	RTD	3	Req.	Char.	Mnemonic "RTD" meaning real-time data resource card; must start in col. 1.
	Phase No.	2	Opt.	Integer	RTD Phase number
	Source	4	Opt.	Char.	Source of real-time data; choose one of: "ECIO", "DCHN", "BOTH".
	Destination	3	Opt.	Char.	Destination of real-time data; choose one of: "GSE", "RTD", "NRT".
	Act. Text	20	Opt.	Char.	Resource Activity Text
PBD	PBD	3	Req.	Char.	Mnemonic "PBD" meaning playback/dump resource card; must start in col. 1.
	Phase No.	2	Opt.	Integer	PBD Phase number
	Source	4	Opt.	Char.	Source of playback/dump data; choose one of: "ECIO", "DCHN", "BOTH"
	Destination	3	Opt.	Char.	Destination of playback-dump data; choose one of: "GSE", "RTD", "NRT"
TML	Voice	5	Opt.	Char.	Requesting Voice playback; use "VOICE" in field or leave blank.
	Act. Text	20	Opt.	Char.	Resource Activity Text
	TML	3	Req.	Char.	Mnemonic "TML" meaning POCC terminal resource card; must start in col. 1.
	# Terminals	1	Req.	Integer	Number of POCC terminals allocated.
	Room #	1	Req.	Integer	POCC Room # where terminals are located.
	CMIDN	4	Req.	Char.	Choose one or combination of "C", "M", "D", "N" Describes use of POCC terminals. C (commanding), M (monitoring), D (dump reads), N (near real-time).
	Act. Text	20	Opt.	Char.	Resource Activity Text

TABLE B-2. (Concluded)

Card Type	Field Name	Maximum Size (Characters)	Required or Optional	Field Type	Field Description
GSE	GSE	3	Req.	Char.	Mnemonic "GSE" meaning Ground Support Equip. resource card: must start in col. 1.
	Mach. label	12	Req.	Char.	GSE machine label or identifier
	Room #	1	Req.	Integer	POCC room = where GSE is located.
	Heat load	20	Req.	Real	GSE heat load specified in KBTU/hr.
	Power load	20	Req.	Real	GSE power load specified in KVA.
	Act. Text	20	Opt.	Char.	Resource Activity Text

POCC-RESOURCE-INPUT-FILE =  
 HDR-CARD +  
 RESOURCE & CARD +  
 [ INI-TER-CARDS  
 ] DUP-CARD

RESOURCE-CARD =  
 [ A/G-CARD  
 MAN-CARD  
 CMD-CARD  
 RTD-CARD  
 RBD-CARD  
 TML-CARD  
 GSE-CARD  
 ]

INI-TER-CARDS =  
 INI-CARD +  
 TER-CARD +  
 (PER-CARD)

WHERE:  
 { MEANS ITERATIONS OF  
 [ MEANS SELECT ONE OF  
 ( ) MEANS OPTIONAL  
 + MEANS "AND"

Figure B-1. Structure of a POCC resource input file.



**APPENDIX C**

**POCC TIMELINE ANALYSIS PROGRAM REPORTS**

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## POCC TIMELINE ANALYSIS PROGRAM REPORTS USER NOTES

After login, the user may obtain a list of reports by entering REPORTS. When the return key is pressed, the prompt sign \$ will appear. The user then enters DIR for directory. When the return key is pressed, the directory on Figure C-1 will be printed.

The user may call any report in the directory to the terminal screen for viewing by entering T REPORT NAME.LIS after the prompt sign e.g., \$ T GSESUMMARY.LIS [ENTER]. When the return key is pressed, the report called will appear on the screen. Samples of these reports are shown in Figure C-2.

RESEARCH LABORATORY

§ REPORTS  
QSA1:CEL121.REPORTSJ  
§ DIR

Directory \_QSA1:CEL121.REPORTSJ

ATGSUMMARY.LIS;4	CMDSUMMARY.LIS;7	CMDSUMERR.LIS;7	CMDWINDOW.LIS;1
EA033.ENG;1	EA033SUM.REP;1	EA034.ENG;1	EA034SUM.REP;1
ES013.ENG;1	ES013SUM.REP;1	ES014.ENG;1	ES014SUM.REP;1
ES016.ENG;1	ES016SUM.REP;1	ES017.ENG;1	ES017SUM.REP;1
ES019.ENG;1	ES019B.ENG;1	ES019BSUM.REP;1	ES019SUM.REP;1
ES020.ENG;1	ES020SUM.REP;1	ES021.ENG;1	ES021SUM.REP;1
ES022.ENG;1	ES022SUM.REP;1	ES023.ENG;1	ES023SUM.REP;1
ES024.ENG;1	ES024SUM.REP;1	ES025.ENG;1	ES025SUM.REP;1
ES02632.ENG;1	ES027.ENG;1	ES027SUM.REP;1	ES028.ENG;1
ES028SUM.REP;1	ES029.ENG;1	ES029SUM.REP;1	ES030.ENG;1
ES030SUM.REP;1	ES031.ENG;1	ES031SUM.REP;1	ES201.ENG;1
ES300.ENG;1	ES300SUM.REP;1	ES338.ENG;1	ES338SUM.REP;1
ES356.ENG;1	ES356SUM.REP;1	GSESUMMARY.LIS;3	MANBYROOM.LIS;7
MANBYROOM.LIS;6	MANBYROOM.LIS;5	MANBYROOM.LIS;4	MANBYROOM.LIS;3
MANBYROOM.LIS;2	MANSUMMARY.LIS;5	NA008.ENG;1	NA008SUM.REP;1
NS001.ENG;3	NS001SUM.REP;2	NS002.ENG;1	NS002SUM.REP;2
NS003.ENG;1	NS003SUM.REP;1	NS005.ENG;2	NS005.ENG;1
NS005SUM.REP;1	NS100.ENG;1	NS100SUM.REP;1	NT011.ENG;1
NT011SUM.REP;1	OPSENG.ENG;1	RESSUMMARY.LIS;4	TALBYROOM.LIS;7
TALBYROOM.LIS;6	TALBYROOM.LIS;5	TALBYROOM.LIS;4	TALBYROOM.LIS;3
TALBYROOM.LIS;2	TALSUMMARY.LIS;2		

Total of 82 files.  
§

Figure C-1. Reports directory.



EXPERIMENT	CHANGE NO.	CHANGE DATE	PT. OF CONTACT	MSN TL REFERENCE	DESCRIPTION
1EA034	0	9-FEB-81	SCHATZ	2/81	MRSE
1ES013	0	15-DEC-80	J.DODSWORTH	2/81	GRILLE
1ES014	0	15-DEC-80	H.R.NYE	2/81	WAVES IN OH
1ES016	0	15-DEC-80	J.DODSWORTH	2/81	SOLAR SPECTRUM
1ES017	0	15-DEC-80	J.DODSWORTH	2/81	HED LYMAN ALPHA
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES020	0	15-DEC-80	H.NYE	2/81	PICPAR
1ES021	0	15-DEC-80	G.BIDDIS	2/81	SOLAR CONSTANT
1ES022	0	15-DEC-80	G.BIDDIS	2/81	VAF
1ES023	0	15-DEC-80	H.NYE	2/81	XRAY SPECTROSCOPY
1ES024	0	23-DEC-80	J.FEIN/DFVLR	2/81	ISOSTACK
1ES025	0	23-JAN-81	H.R.NYE	2/81	MASS DISCRIMINATION
1ES2632	0	02-FEB-81	J.FEIN/DFVLR	2/81	VENOUS PR BLOOD SAMP
1ES027	0	23-DEC-80	J.FEIN/DFVLR	2/81	ADVANCED BIOTACK
1ES028	0	15-DEC-80	G.BIDDIS	2/81	RALLISIOCARD.
1ES029	0	23-DEC-80	J.FEIN/DFVLR	2/81	BIORAD
1ES030	0	15-DEC-80	H.NYE	2/81	MINI RCOR
1ES031	0	15-DEC-80	G.BIDDIS	2/81	LYMPHOCYTES
1ES201	0	10-MAR-81	J.FEIN/DFVLR	2/81	VESTIBULAR EXP
1ES300	0	23-JAN-81	K.FRIEDL	2/81	MAT SCI DOWA PAK
1ES338	0	15-DEC-80	G.BIDDIS	2/81	DIODIDE CRYSTALS
1ES356	0	15-DEC-80	H.NYE	2/81	CRYSTAL GROWTH
1MA008	0	29-JAN-81	S.NONEMAN	2/81	ACR
1NS002	0	28-JAN-81	S.NONEMAN	2/81	SEPAC
1NS003	0	29-JAN-81	S.NONEMAN	2/81	APEI
1NT011	0	29-JAN-81	S.NONEMAN	2/81	TRINNOLOGY
1NS001	0	27-FEB-81	D.HAVKS	2/81	ISO
1EA033	0	30-JAN-81	P.DAU/GSNC	2/81	HETIC CANEPA
1NS100	0	11-FEB-81	S.NONEMAN	2/81	MINILAR
1NS005	0	9-JAN-81	S.NONEMAN	2/81	FAUST

Figure C-2. (Continued)

PCCC TIME-DEPENDENT ANALYSIS PROGRAM  
MAPPING SUMMARY ANALYSIS  
PRINTED 1-APR-81

MET	ROOM 0	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	TOTAL
0.0	0	0	0	4	4	3	11	6	0	32
0.1	0	0	0	4	5	3	11	6	0	32
0.2	0	0	0	4	4	3	11	6	0	32
0.3	0	0	0	4	4	3	11	6	0	32
0.4	0	0	0	4	4	3	11	6	0	32
0.5	0	0	0	4	4	3	11	6	0	32
0.6	0	0	0	4	4	3	11	6	0	32
0.7	0	0	0	4	4	3	11	6	0	32
0.8	0	0	0	4	4	3	11	6	0	32
0.9	0	0	0	4	4	3	11	6	0	32
1.0	0	0	0	4	4	3	11	6	0	32
1.1	0	0	0	4	4	3	11	6	0	32
1.2	0	0	0	4	4	3	11	6	0	32
1.3	0	0	0	4	4	3	11	6	0	32
1.4	0	0	0	4	4	3	11	6	0	32
1.5	0	0	0	4	4	3	11	6	0	32
1.6	0	0	0	4	4	3	11	6	0	32
1.7	0	0	0	4	4	3	11	6	0	32
1.8	0	0	0	4	4	3	11	6	0	32
1.9	0	0	0	4	4	3	11	6	0	32
2.0	0	0	0	4	4	3	11	6	0	32
2.1	0	0	0	4	4	3	11	6	0	32
2.2	0	0	0	4	4	3	11	6	0	32
2.3	0	0	0	4	4	3	11	6	0	32
2.4	0	0	0	4	4	3	11	6	0	32
2.5	0	0	0	4	4	3	11	6	0	32
2.6	0	0	0	4	4	3	11	6	0	32
2.7	0	0	0	4	4	3	11	6	0	32
2.8	0	0	0	4	4	3	11	6	0	32
2.9	0	0	0	4	4	3	11	6	0	32
3.0	0	0	0	4	4	3	11	6	0	32
3.1	0	0	0	4	4	3	11	6	0	32
3.2	0	0	0	4	4	3	11	6	0	32
3.3	0	0	0	4	4	3	11	6	0	32
3.4	0	0	0	4	4	3	11	6	0	32
3.5	0	0	0	4	4	3	11	6	0	32
3.6	0	0	0	4	4	3	11	6	0	32
3.7	0	0	0	4	4	3	11	6	0	32
3.8	0	0	0	4	4	3	11	6	0	32
3.9	0	0	0	4	4	3	11	6	0	32
4.0	0	0	0	4	4	3	11	6	0	32
4.1	0	0	0	4	4	3	11	6	0	32
4.2	0	0	0	4	4	3	11	6	0	32
4.3	0	0	0	4	4	3	11	6	0	32
4.4	0	0	0	4	4	3	11	6	0	32
4.5	0	0	0	4	4	3	11	6	0	32
4.6	0	0	0	4	4	3	11	6	0	32
4.7	0	0	0	4	4	3	11	6	0	32
4.8	0	0	0	4	4	3	11	6	0	32
4.9	0	0	0	4	4	3	11	6	0	32

Figure C-2. (Continued)

POCC TIMELINE ANALYSIS PROGRAM  
INPUT LIST FOR SLIT'L

EXPERIMENT	CHARGE NO.	CHANGE DATE	PT. OF CONTACT	MSV TL REFERENCE	DESCRIPTION
1EA034	0	9-FER-81	SCHATZ	2/81	HRSE
1ES013	0	15-DEC-80	J.CONSWORTH	2/81	GRILLE
1ES016	0	15-DEC-80	J.DONSKWORTH	2/81	SOLAR SPECTRUM
1ES017	0	15-DEC-80	J.DONSKWORTH	2/81	H <sup>21</sup> LYMAN ALPHA
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES020	0	15-DEC-80	H.ME	2/81	PICPAR
1ES021	0	15-DEC-80	G.BIDDIS	2/81	SOLAR CONSTANT
1ES022	0	15-DEC-80	G.RIDDIS	2/81	VMFC
1ES023	0	15-DEC-80	H.ME	2/81	XRAY SPECTROSCOPY
1ES024	0	23-DEC-80	J.FEIN/DFVLR	2/81	ISOSTACK
1ES031	0	15-DEC-80	G.BIDDIS	2/81	LYMPHOCYTES
1ES300	0	23-JAN-81	K.FRIEDL	2/81	NAT. SCI HOUR PACK
1NA008	0	29-JAN-81	S.WONEMAN	2/81	ACP
1NS002	0	28-JAN-81	S.WONEMAN	2/81	SFPAC
1NS003	0	29-JAN-81	S.WONEMAN	2/81	ASPI
1NT011	0	29-JAN-81	S.WONEMAN	2/81	TRIPLOGY
1NS001	0	27-FEB-81	D.HANKS	2/81	ISO
1EA033	0	30-JAN-81	P.DAU/GSNC	2/81	METRIC CAMERA
1NS005	0	9-JAN-81	S.WONEMAN	2/81	FAUST

Figure C-2. (Continued)

PACC TIMELINE ANALYSIS PROGRAM

ROOM 3 TERMINAL USER LIST

PRINTED 1-APR-81

NET	ADS	TML TOTAL	USER/HD./PURPOSE
0.0		0	
0.1		0	
0.2		0	
0.3		0	
0.4		0	
0.5		0	
0.6		0	
0.7		0	
0.8		0	
0.9		0	
1.0		0	
1.1		0	
1.2		0	
1.3		0	
1.4		0	
1.5		0	
1.6		0	
1.7		0	
1.8		0	
1.9		0	
2.0		0	
2.1		0	
2.2		0	
2.3		0	
2.4		0	
2.5		0	
2.6		0	
2.7		0	
2.8		0	
2.9		0	
3.0	ADS	0	
3.1	ADS	0	
3.2	ADS	0	
3.3	ADS	0	
3.4	ADS	0	
3.5	ADS	0	
3.6	ADS	0	
3.7	ADS	0	
3.8	ADS	0	
3.9	ADS	0	
4.0		0	
4.1		0	
4.2	ADS	0	
4.3	ADS	0	
4.4	ADS	0	
4.5	ADS	0	
4.6	ADS	0	
4.7	ADS	0	
4.8	ADS	0	
4.9	ADS	0	

Figure C-2. (Continued)



EXPERIMENT	CHANGE NO.	CHANGE DATE	PT. OF CONTACT	MSW TL REFERENCE	DESCRIPTION
1EA033	0	30-JAN-81	F. DALL/GSDC	2/81	METRIC CAMERA
1EA034	0	9-FEB-81	SCHATZ	2/81	WRSE
1ES013	0	15-DEC-80	J. DODSWORTH	2/81	GRILLE
1ES016	0	15-DEC-80	J. DODSWORTH	2/81	SOLAR SPECTRUM
1ES017	0	15-DEC-80	J. DODSWORTH	2/81	HAD UYVAH ALPHA
1ES019	0	23-DEC-81	J. FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES020	0	15-DEC-80	H. NYE	2/81	PICPAR
1ES021	0	15-DEC-80	G. RIDDIS	2/81	SOLAR CONSTANT
1ES022	0	15-DEC-80	G. RIDDIS	2/81	VWFC
1ES023	0	15-DEC-80	H. NYE	2/81	XRAY SPECTROSCOPY
1ES024	0	23-DEC-80	J. FEIN/DFVLR	2/81	IGNSTACK
1ES031	0	15-DEC-80	G. RIDDIS	2/81	LYMPHOCYTES
1ES300	0	23-JAN-81	K. FRIEDL	2/81	MAT SCI OUR RACK
1NA008	0	29-JAN-81	S. NOMEHAI	2/81	ACH
1NS001	0	27-FEB-81	D. HANKS	2/81	ISO
1NS002	0	28-JAN-81	S. NOMEHAI	2/81	SEPAC
1NS003	0	29-JAN-81	S. NOMEHAI	2/81	AFPI
1NS005	0	9-JAN-81	S. NOMEHAI	2/81	FAUST
1NT011	0	29-JAN-81	S. NOMEHAI	2/81	TRITULLOLOGY

Figure C-2. (Continued)

POCC TIMELINE ANALYSIS PROGRAM  
TERMINAL UTILIZATION SUMMARY

PPRINTED 17-MAR-81

NET	RM 0 TML/USR	RM 1 TML/USR	RM 2 TML/USR	RM 3 TML/USR	RM 4 TML/USR	RM 5 TML/USR	RM 6 TML/USR	RM 7 TML/USR	RM 8 TML/USR	TOTAL TML/USR
0.0	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.2	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.3	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.4	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.5	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.6	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.7	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.8	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
0.9	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.0	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.2	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.3	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.4	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.5	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.6	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.7	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.8	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
1.9	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.0	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.2	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.3	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.4	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.5	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.6	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.7	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.8	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
2.9	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.0	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.2	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.3	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.4	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.5	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.6	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.7	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.8	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
3.9	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.0	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.1	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.2	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.3	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.4	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.5	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.6	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.7	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.8	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6
4.9	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	6/6

Figure C-2. (Continued)

EXPERIMENT	CHANGE NO.	CHANGE DATE	PT. OF CONTACT	MSN TL REFERENCE	DESCRIPTION
1EA034	0	9-FEB-81	SCHATZ	2/81	NRSE
1ES016	0	15-DEC-80	J.DJDSWORTH	2/81	SOLAR SPECTRUM
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES023	0	15-DEC-80	H.VFF	2/81	XRAY SPECTROSCOPY
0PSENG	0	13-FEB-81	S.WONEHAN	2/81	MHU DATA SET UPDATES
1EA033	0	30-JAN-81	P.DAU/GSOC	2/81	METRIC CAMERA

Figure C-2. (Continued)

PCCC TIMELINE ANALYSIS PROGRAM  
COMMANDING SUMMARY

PRINTED 1-APR-81

ADS NO.	ACQ (HH:MM)	LOSS (HH:MM)	DURATION (MIN)	TOTAL CNDS	=	NO. THRUPT	+	NO. 2-STAGE	NO. HAZ.	NO. CRIT.	NO. USERS
1	3:00	3:13	13:50	0		0		0	0	0	0
2	3:22	3:49	27:00	0		0		0	0	0	0
3	4:16	4:45	29:43	60		60		0	0	0	1
4	4:59	5:24	25:00	60		60		0	0	0	1
5	5:56	6:18	22:00	20		20		0	0	0	1
6	6:35	6:56	21:14	0		0		0	0	0	0
7	7:08	7:19	11:00	0		0		0	0	0	0
8	7:27	7:52	25:00	0		0		0	0	0	0
9	8:00	8:29	29:00	5		5		0	0	0	1
10	8:53	9:29	36:00	73		73		0	0	0	1
11	9:30	10:03	33:00	80		80		0	0	0	1
12	10:42	11:10	28:00	23		23		0	0	0	2
13	11:12	11:37	25:00	20		20		0	0	0	1
14	12:29	13:17	48:00	38		38		0	0	0	3
15	13:57	14:22	25:00	100		100		0	0	0	2
16	14:24	14:52	28:03	110		110		0	0	0	2
17	15:47	16:15	28:00	50		50		0	0	0	3
18	16:44	17:08	24:00	10		10		0	0	0	2
19	17:23	17:47	24:00	60		60		5	0	0	4
20	18:16	18:42	26:00	45		40		5	0	0	4
21	18:55	19:21	25:41	55		50		5	0	0	4
22	19:50	20:36	46:00	5		5		0	0	0	1
23	20:48	21:12	24:03	70		70		0	0	0	2
24	21:27	22:15	48:41	65		65		0	0	0	2
25	22:21	22:45	24:00	10		10		0	0	0	2
26	23:08	23:55	46:41	5		5		0	0	0	1
27	23:57	24:22	25:00	10		10		0	0	0	2
28	24:46	25:18	31:65	10		10		0	0	0	2
29	25:20	26:03	43:50	15		15		0	0	0	2
30	26:20	27:04	43:65	41		41		0	0	0	2
31	27:53	28:36	43:40	146		146		0	0	0	2
32	28:38	28:52	14:00	68		68		0	0	0	2
33	29:26	29:47	21:40	48		48		0	0	0	2
34	30:05	30:45	40:00	63		63		0	0	0	2
35	30:59	31:39	39:85	35		30		5	0	0	3
36	31:41	32:12	31:00	30		35		5	0	0	3
37	32:49	33:21	32:00	135		125		10	0	0	3
38	34:30	35:02	32:00	20		20		0	0	0	3
39	36:10	36:39	29:00	45		45		0	0	0	2
40	37:47	38:12	25:00	75		75		0	0	0	3
41	39:21	39:46	25:00	20		20		0	0	0	3
42	40:35	41:16	40:67	25		25		0	0	0	2
43	41:19	41:50	30:93	10		10		0	0	0	2
44	42:08	42:50	42:40	95		95		0	0	0	2
45	42:52	43:17	21:98	40		40		0	0	0	2
46	43:42	44:27	44:68	5		5		0	0	0	1
47	44:29	44:45	16:71	30		30		0	0	0	2
48	45:19	46:08	48:76	95		95		0	0	0	2
49	47:00	47:35	35:38	5		5		0	0	0	1
50	47:39	47:55	15:86	35		35		0	0	0	2

Figure C-2. (Continued)

EXPERIMENT	CHARGE NO.	CHARGE DATE	PT. OF CONTACT	MSN TL REFERENCE	DESCRIPTION
1EA034	0	9-FEB-81	SCHATZ	2/81	MRSE
1ES013	0	15-DEC-80	J.DODDSWORTH	2/81	GRILLE
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES2632	0	02-FEB-81	J.FEIN/DFVLR	2/81	VENOUS PR BLOOD SAMPL
1ES031	0	15-DEC-80	G.RIDDIS	2/81	LYMPHOCYTES
1ES201	0	10-MAR-81	J.FEIN/DFVLR	2/81	VESTIBULAR EXP
1NS002	0	28-JAN-81	S.NONEMAN	2/81	SEPAE
1NS003	0	29-JAN-81	S.NONEMAN	2/81	AERI
1MT011	0	29-JAN-81	S.NONEMAN	2/81	TRIROLOGY
1NS001	0	27-FEB-81	D.HANKS	2/81	ISO
1EA033	0	30-JAN-81	P.DAU/GSDC	2/81	METRIC CAMERA
1NS100	0	11-FEB-81	S.NONEMAN	2/81	MINILAR

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 OF POOR QUALITY

Figure C-2. (Continued)

POCC TIMELINE ANALYSIS PROGRAM  
 AIR TO GROUND VOICE ANALYSIS

PRINTED 1-APR-81

MET	AUS	USER(S)/R OR D
0.0		
0.1		
0.2		
0.3		
0.4		
0.5		
0.6		
0.7		
0.8		
0.9		
1.0		
1.1		
1.2		
1.3		
1.4		
1.5		
1.6		
1.7		
1.8		
1.9		
2.0		
2.1		
2.2		
2.3		
2.4		
2.5		
2.6		
2.7		
2.8		
2.9		
3.0	AOS	NONE
3.1	AOS	NONE
3.2	AOS	NONE
3.3	AOS	NONE
3.4	AOS	NONE
3.5	AOS	NONE
3.6	AOS	NONE
3.7	AOS	NONE
3.8	AOS	NONE
3.9		
4.0		
4.1		
4.2	AOS	NONE
4.3	AOS	NONE
4.4	AOS	NONE
4.5	AOS	NONE
4.6	AOS	NONE
4.7	AOS	NONE
4.8		
4.9	AOS	NONE

Figure C-2. (Continued)

EXPERIMENT	CHANGE NO.	CHANGE DATE	PT. OF CONTACT	MSN TL REFERENCE	DESCRIPTION
1EA034	0	9-FEB-81	SCHATZ	2/81	MRSE
1ES016	0	15-DEC-80	J.DUNSWORTH	2/81	SOLAR SPECTRUM
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES023	0	15-DEC-80	H.HVE	2/81	XRAY SPECTROSCOPY
0PSENG	0	13-FEB-81	S.NONEVAH	2/81	MNU DATA SET UPDATES
1EA033	0	30-JAN-81	P.DAU/GSOC	2/81	METRIC CAMERA

Figure C-2. (Continued)

POCC TIMELINE ANALYSIS PROGRAM  
COMMAND WINDOW REQUESTS

PRINTED 1-APR-81

EXPERIMENT	PA#	NO. THRUPUT	NO. TMO STAGE	NO. HAZ	NO. CRIT	ACTIVITY TEXT	ADJ OPPORTUNITIES	OPEN	CLOSE
OPSENG	1	60	0	0	0	MASTER TL	3,1	4:00	5:00
OPSENG	1	20	0	0	0	POCC-HMU DATA SET	5	6:00	6:30
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	9	8:00	8:06
OPSENG	1	13	0	0	0	IEA033 HMU DATA SET	10	8:53	9:05
OPSENG	1	60	0	0	0	MASTER TL	10,11	9:00	10:00
OPSENG	1	20	0	0	0	IEA033 STL MAINT	11	9:30	9:42
OPSENG	5	10	0	0	0	CAMERA OPS	12	10:07	11:01
OPSENG	1	13	0	0	0	IEA033 HMU DATA SET	12	10:42	10:54
OPSENG	1	20	0	0	0	IEA033 STL MAINT	13	11:12	11:24
IEFS016	2	20	0	0	0	PRE-OPS SETUP AND CA	14	12:28	13:10
IEFS023	4	5	0	0	0	EXPT CALIBRATION	14	12:29	12:47
OPSENG	1	13	0	0	0	IEA033 HMU DATA SET	14	12:29	12:41
IEFS023	4	5	0	0	0	EXPT CALIBRATION	15	13:57	14:15
OPSENG	1	70	0	0	0	IEA034 UNS MAINT	15,16	13:57	14:27
OPSENG	1	20	0	0	0	IEA033 STL MAINT	15	13:57	14:09
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	15	13:57	14:03
IEFS023	4	5	0	0	0	EXPT CALIBRATION	16	14:24	14:42
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	16	14:24	14:30
OPSENG	1	10	0	0	0	IEFS017 STL MAINT	16	14:24	14:42
OPSENG	1	20	0	0	0	IES017 SFO TABLE UPL	16	14:24	14:42
IEA033	5	10	0	0	0	CAMERA OPS	17	15:44	16:43
IEFS023	4	5	0	0	0	EXPT CALIBRATION	17	15:47	16:05
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	17	15:47	15:53
OPSENG	1	10	0	0	0	IEFS017 STL MAINT	17	15:47	16:05
OPSENG	1	20	0	0	0	IES017 SFO TABLE UPL	17	15:47	16:05
OPSENG	4	5	0	0	0	EXPT CALIBRATION	18	16:44	17:02
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	18	16:44	16:50
IEA033	5	10	0	0	0	CAMERA OPS	19	17:16	18:15
IEFS023	4	5	0	0	0	EXPT CALIBRATION	19	17:23	17:41
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	19	17:23	17:41
OPSENG	1	10	0	0	0	IEFS017 STL MAINT	19	17:23	17:41
OPSENG	1	20	0	0	0	IES017 SFO TABLE UPL	19	17:23	17:41
OPSENG	1	5	0	0	0	ISO STLS	19	17:23	17:41
IEA034	5	0	5	0	0	EXP PERFORMANCE	19,20,21	17:32	19:29
OPSENG	1	20	0	0	0	POCC-HMU DATA SET	20	18:00	18:30
IEFS023	4	5	0	0	0	EXPT CALIBRATION	20	18:16	18:34
OPSENG	1	5	0	0	0	IES020 UNS OR STL MA	20	18:16	18:22
IEA033	5	10	0	0	0	CAMERA OPS	20,21	18:36	19:30
IEFS023	4	5	0	0	0	EXPT CALIBRATION	21	18:55	19:13
OPSENG	1	10	0	0	0	IES017 STL MAINT	21	18:55	19:13
OPSENG	1	20	0	0	0	IES017 SFO TABLE UPL	21	18:55	19:13
OPSENG	1	5	0	0	0	ISO STLS	21	18:55	19:13
IEFS023	4	5	0	0	0	EXPT CALIBRATION	22	19:10	19:10
IEFS023	4	5	0	0	0	EXPT CALIBRATION	22	19:10	20:10
OPSENG	1	5	0	0	0	ISO STLS	23	20:14	21:06
OPSENG	1	60	0	0	0	MASTER TL	23	20:48	20:54
IEFS023	4	5	0	0	0	EXPT CALIBRATION	23,24	21:00	22:00
IEFS023	4	5	0	0	0	EXPT CALIBRATION	24	21:27	21:45
IEFS023	4	5	0	0	0	EXPT CALIBRATION	25	22:21	22:39

Figure C-2. (Continued)



EXPERIMENT	CHANG#	CHARGE DATE	PT. OF CONTACT	NSF TL REFERENCE	DESCRIPTION
1EA014	0	9-FEB-91	SCHATZ	2/81	MRSE
1ES013	0	15-DEC-80	J.DODSWORTH	2/81	GRILLF
1ES014	0	15-DEC-80	H.R.WYE	2/81	WAVES 1" OH
1ES016	0	15-DEC-80	J.DODSWORTH	2/81	SOLAR SPECTRUM
1ES017	0	15-DEC-80	J.DODSWORTH	2/81	H&O LYMAN ALPHA
1ES019	0	23-DEC-81	J.FEIN/DFVLR	2/81	LOW ENERGY ELECTRONS
1ES020	0	15-DEC-80	H.WYE	2/81	PICPAR
1ES021	0	15-DEC-80	G.RIDDIS	2/81	SOLAR CONSTANT
1ES022	0	15-DEC-80	G.RIDDIS	2/81	WFCC
1ES023	0	15-DEC-80	H.WYE	2/81	XRAY SPECTROSCOPY
1ES024	0	23-DEC-80	J.FEIN/DFVLR	2/81	ISOSTACK
1ES025	0	23-JAN-91	H.R.WYE	2/81	MASS DISCRIMINATION
1ES2632	0	02-FEB-91	J.FEIN/DFVLR	2/81	VENOUS PR BLOOD SAMP
1ES027	0	23-DEC-80	J.FEIN/DFVLR	2/81	ADVANCED PIOTACK
1ES028	0	15-DEC-80	G.BIDDIS	2/81	RALLISTOCARD
1ES029	0	23-DEC-80	J.FEIN/DFVLR	2/81	BIORAD
1ES030	0	15-DEC-80	H.WYE	2/81	MINI PCOP
1ES031	0	15-DEC-80	G.RIDDIS	2/81	LYMPHOCYTES
1ES201	0	10-MAR-91	J.FEIN/DFVLR	2/81	VESTIBULAR EXP
1ES300	0	23-JAN-91	K.FRIEDL	2/81	MAT SCI DOUR PACK
1ES338	0	15-DEC-80	G.RIDDIS	2/81	DIODIDE CRYSTALS
1ES356	0	15-DEC-80	H.WYE	2/81	CRYSTAL GROWTH
1NA008	0	29-JAN-91	S.NOREMAN	2/81	ACR
1NS002	0	28-JAN-91	S.NOREMAN	2/81	SEPAC
1NS003	0	29-JAN-91	S.NOREMAN	2/81	AFPI
1NT011	0	29-JAN-91	S.NOREMAN	2/81	TRINOLOGY
1NS001	0	27-FEB-91	D.HANKS	2/81	ISO
1EA033	0	30-JAN-91	P.DAU/GSOC	2/81	METRIC CAMERA
1NS100	0	11-FEB-91	S.NOREMAN	2/81	MINILAR
1NS005	0	9-JAN-91	S.NOREMAN	2/81	FAUST

Figure C-2. (Continued)

POCC TIMELINE ANALYSIS PROGRAM  
 ROOM 3 MANNING ANALYSIS

PRINTED 1-APR-81

MEI	EXPERIMENT/NO.	TOTAL
0.0	1ES027/1 1NS100/3	4
0.1	1ES027/1 1NS100/3	4
0.2	1ES027/1 1NS100/3	4
0.3	1ES027/1 1NS100/3	4
0.4	1ES027/1 1NS100/3	4
0.5	1ES027/1 1NS100/3	4
0.6	1ES027/1 1NS100/3	4
0.7	1ES027/1 1NS100/3	4
0.8	1ES027/1 1NS100/3	4
0.9	1ES027/1 1NS100/3	4
1.0	1ES027/1 1NS100/3	4
1.1	1ES027/1 1NS100/3	4
1.2	1ES027/1 1NS100/3	4
1.3	1ES027/1 1NS100/3	4
1.4	1ES027/1 1NS100/3	4
1.5	1ES027/1 1NS100/3	4
1.6	1ES027/1 1NS100/3	4
1.7	1ES027/1 1NS100/3	4
1.8	1ES027/1 1NS100/3	4
1.9	1ES027/1 1NS100/3	4
2.0	1ES027/1 1NS100/5	6
2.1	1ES027/1 1NS100/5	6
2.2	1ES027/1 1NS100/5	6
2.3	1ES027/1 1NS100/5	6
2.4	1ES027/1 1NS100/5	6
2.5	1ES027/1 1NS100/5	6
2.6	1ES027/1 1NS100/5	6
2.7	1ES027/1 1ES030/2	6
2.8	1ES027/1 1ES030/2	6
2.9	1ES027/1 1ES030/2	6
3.0	1ES027/1 1ES030/2	6
3.1	1ES027/1 1ES030/2	6
3.2	1ES027/1 1ES030/2	6
3.3	1ES027/1 1ES030/2	6
3.4	1ES027/1 1ES030/2	6
3.5	1ES027/1 1ES030/2	6
3.6	1ES027/1 1ES030/2	6
3.7	1ES027/1 1ES030/2	6
3.8	1ES027/1 1ES030/2	6
3.9	1ES027/1 1ES030/2	6
4.0	1ES027/1 1ES030/2	6
4.1	1ES027/1 1ES030/2	6
4.2	1ES027/1 1ES030/2	6
4.3	1ES027/1 1ES030/2	6
4.4	1ES027/1 1ES030/2	6
4.5	1ES027/1 1ES030/2	6
4.6	1ES027/1 1ES030/2	6
4.7	1ES027/1 1ES030/2	6
4.8	1ES027/1 1ES030/2	6
4.9	1ES027/1 1ES030/2	6

Figure C-2. (Continued)

ORIGINAL PAGE IS  
 OF POOR QUALITY

MET	AUS	A/G VOICE REQUIRD = K DESIPD = D	COMANDS (TP/TS/HZ/CR)	USER ROOMS										
				RM 0	RM 1	RM 2	RM 3	RM 4	RM 5	RM 6	RM 7	RM 8		
0.0				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.1				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.2				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.3				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.4				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.5				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.6				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.7				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.8				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
0.9				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.0				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.1				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.2				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.3				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.4				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.5				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.6				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.7				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.8				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
1.9				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
2.0				0/0	0/0	0/0	0/4	1/3	2/11	2/6	0/0	0/0		
2.1				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.2				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.3				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.4				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.5				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.6				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.7				0/0	0/0	0/0	0/6	1/8	2/5	2/11	2/6	0/0		
2.8				0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
2.9				0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.0				0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.1	ADS	OR, OR	PASS DURATION 0.2HR	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.2	ADS	OR, OR	-----0/0/0/0-----	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.3	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.4	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.5	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.6	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.7	ADS	OR, OR	PASS DURATION 0.5HR	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.8	ADS	OR, OR	-----0/0/0/0-----	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
3.9	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.0				0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.1				0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.2	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.3	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.4	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.5	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.6	ADS	OR, OR	PASS DURATION 0.5HR	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.7	ADS	OR, OR	-----0/0/0/0-----	0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.8	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		
4.9	ADS	OR, OR		0/0	0/0	0/0	0/8	1/6	2/5	2/11	2/6	0/0		

Figure C-2. (Continued)

## COMMANDING SUMMARY DIAGNOSTICS

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 38  
 REC # 102 USER: LEA033 ON/OFF: 0.336555573E+02 0.3450000000E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 39  
 REC # 106 USER: LEA033 ON/OFF: 0.3516666794E+02 0.3602222443E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 39  
 REC # 107 USER: LEA033 ON/OFF: 0.3532222366E+02 0.3612777719E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 40  
 REC # 113 USER: LEA033 ON/OFF: 0.3690555725E+02 0.3764444435E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 59  
 REC # 173 USER: OPSENG ON/OFF: 0.5700000000E+02 0.5800000000E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 86  
 REC # 268 USER: LEA033 ON/OFF: 0.8449444580E+02 0.8531666565E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 89  
 REC # 286 USER: LEA033 ON/OFF: 0.8773332977E+02 0.8853333282E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 88  
 REC # 287 USER: LEA034 ON/OFF: 0.8785555267E+02 0.8940555573E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 88  
 REC # 288 USER: LEA033 ON/OFF: 0.8869999695E+02 0.8940000153E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 88  
 REC # 289 USER: LEA033 ON/OFF: 0.8880000305E+02 0.8976666260E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 88  
 REC # 290 USER: OPSENG ON/OFF: 0.9000000000E+02 0.9050000000E+02

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 110  
 REC # 399 USER: LEA033 ON/OFF: 0.111561115E+03 0.1123666641E+03

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 111  
 REC # 410 USER: OPSENG ON/OFF: 0.1140000000E+03 0.1145000000E+03

THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD # 146  
 REC # 507 USER: OPSENG ON/OFF: 0.1500000000E+03 0.1505000000E+03

Figure C-2. (Continued)



EXPERIMENT 1FA0J4 CHG NO. 0 AS OF 9-FEB-81 CONTACT SCHIATZ ,MRSE  
 POCCL IL INPUT

\*\*\* ,STL AND HTL MAINT IN OPS ENGR

MANNING OF GROUP 340PS WITH 4 PERSON(S) IN ROOM 5 FOR EXPERIMENT OPS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -0.5 HOURS  
 TO THE END OF 034-FS6H STEP 12 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -0.5 HOURS  
 TO THE END OF 034-FS6H STEP 8 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 8 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 8 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 6 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 6 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 6 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 4 RUN ALL +1.0 HOURS

MANNING OF GROUP 340PS WITH 2 PERSON(S) IN ROOM 5 FOR UDS MAINT  
 FROM THE START OF 034-FS6H STEP 1 RUN 1 -6.0 HOURS  
 TO THE START OF 034-FS6H STEP 1 RUN 1 -0.5 HOURS

\*\*\* ,THE DATA PREP MANNING IS AS REQ'D TO PREPARE FOR OPS

\*\*\* ,A/G REQ FOR REQUESTS TO PC TO EXECUTE CMDS

A/G VOICE REQUIRED FOR DATA PREP AND COORDINATION HOURS  
 FROM THE START OF 034-FS6H STEP 5 RUN ALL HOURS  
 TO THE END OF 034-FS6H STEP 5 RUN ALL HOURS  
 FROM THE START OF 034-FS6H STEP 10 RUN ALL HOURS  
 TO THE END OF 034-FS6H STEP 10 RUN ALL HOURS  
 FROM THE START OF 034-FS6H STEP 12 RUN ALL HOURS  
 TO THE END OF 034-FS6H STEP 12 RUN ALL HOURS

1 TERMINAL(S) REQUESTED IN ROOM 5 FOR CH FOR EXPERIMENT SUPPORT  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -0.5 HOURS  
 TO THE END OF 034-FS6H STEP 12 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -0.5 HOURS  
 TO THE END OF 034-FS6H STEP 9 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 9 RUN ALL +1.0 HOURS  
 FROM THE START OF 034-FS6H STEP 1 RUN ALL -1.0 HOURS  
 TO THE END OF 034-FS6H STEP 9 RUN ALL +1.0 HOURS

Figure C-2. (Concluded)

**APPENDIX D**

**POCC RESOURCE PROGRAMS,  
VAX OPERATING PROCEDURES**

The user may run any of the programs listed in the following by entering the global symbol after the prompter sign \$:e.g., \$ CHECK [ENTER]. When the return key is pressed, the program will run. These programs are tutorial and call for a selection when the options appear on the terminal screen. After entering the option by typing the option number following the prompter sign \$, the program will continue until completed or aborted.

PROGRAM TITLE

CHECK

MET

PINPUT

ATGSUM

CMDSUM

CMDWIN

MANSUM

MANRM

TMLRM

TMLSUM

RESSUM

GSESUM



Username:  
Password: Welcome to UAX/UHS Version U2.1

>>> TYPE 'WHO' FOR CURRENT USERS <<<  
LOGIN NOTE TO ELI2 USERS...

THE FOLLOWING GLOBAL SYMBOLS RUN THE VARIOUS  
POCC RESOURCE PROGRAMS:

CHECK - POCC INPUT SYNTAX CHECKING PROGRAM  
NET - POCC NET CORRELATION PROGRAM  
PINPUT - PRINT POCC INPUTS IN ENGLISH PROGRAM  
ATGSUM - AIR-TO-GROUND SUMMARY REPORT PROGRAM  
CDSUM - COMMANDING SUMMARY REPORT PROGRAM  
CMDWIN - COMMAND WINDOW REPORT PROGRAM  
MANSUM - MANNING SUMMARY REPORT PROGRAM  
MANNBY - MANNING BY ROOM REPORT PROGRAM  
THLSUM - TERMINAL SUMMARY REPORT PROGRAM  
THLWIN - TERMINAL BY ROOM REPORT PROGRAM  
RESSUM - POCC RESOURCE REQUIREMENTS SUMMARY PROGRAM  
GSESUM - GSE LOADS SUMMARY PROGRAM

THE PROGRAMS THAT GENERATE REPORTS WILL PUT THEIR  
LISTING FILES IN THE NEW DIRECTORY (ELI21.REPORTS).  
TO SET YOUR DEFAULT TO IT, JUST TYPE 'REPORTS'.

NOTE: DON'T USE THESE PROGRAMS UNLESS YOU  
UNDERSTAND WHAT THEY DO.

ORIGINAL PAGE IS  
OF POOR QUALITY

5 PER,4.0,,1.0;

6 RTD,,ECIO,RTD,MON EXPERIMENT TEMPS AND STATUS;

7 DUP;

8 TML,1,4,MN,MON EXPERIMENT;

9 DUP;

10 MAN,STBY,3,4,EXPERIMENT OPERATIONS;

11 INI,005-F01A,1,5,,,,-1.0;

12 TER,005-F01A,4,E,,,,+0.3;

13 MAN,PI,1,4,EXPERIMENT OPERATIONS;

14 DUP;

15 RTD,,,,,MON EXPERIMENT;

16 DUP;

17 TML,1,4,MN,MON EXPERIMENT;

18 DUP;

19 MAN,PI,1,4,EXPERIMENT JOINT OPS;

20 INI,005-F01C,1,5,,,,-1.0;

21 TER,005-F01C,6,E,,,,+0.3;

22 MAN,STBY,3,4,MONITOR EXPERIMENT TEMPS AND STATUS;

23 INI,LAUNCH,,,,,+12.0;

24 TER,LANDING,,,,,-12.0;

8 CHECK  
OSAI:TEL121.POCCTLDAT]

LIST OF INPUT FILES IN DIRECTORY  
-OSAI:TEL121.POCCTLDATJEA033.IMP;8  
-OSAI:TEL121.POCCTLDATJEA034.IMP;10  
-OSAI:TEL121.POCCTLDATJES013.IMP;8  
-OSAI:TEL121.POCCTLDATJES014.IMP;3  
-OSAI:TEL121.POCCTLDATJES016.IMP;6  
-OSAI:TEL121.POCCTLDATJES017.IMP;4  
-OSAI:TEL121.POCCTLDATJES019.IMP;5  
-OSAI:TEL121.POCCTLDATJES019B.IMP;3  
-OSAI:TEL121.POCCTLDATJES020.IMP;2  
-OSAI:TEL121.POCCTLDATJES021.IMP;7  
-OSAI:TEL121.POCCTLDATJES022.IMP;7  
-OSAI:TEL121.POCCTLDATJES023.IMP;5  
-OSAI:TEL121.POCCTLDATJES024.IMP;2  
-OSAI:TEL121.POCCTLDATJES025.IMP;10  
-OSAI:TEL121.POCCTLDATJES02632.IMP;1  
-OSAI:TEL121.POCCTLDATJES027.IMP;3  
-OSAI:TEL121.POCCTLDATJES028.IMP;2  
-OSAI:TEL121.POCCTLDATJES029.IMP;4  
-OSAI:TEL121.POCCTLDATJES030.IMP;2  
-OSAI:TEL121.POCCTLDATJES031.IMP;4  
-OSAI:TEL121.POCCTLDATJES201.IMP;5  
-OSAI:TEL121.POCCTLDATJES300.IMP;6  
-OSAI:TEL121.POCCTLDATJES338.IMP;5  
-OSAI:TEL121.POCCTLDATJES356.IMP;4  
-OSAI:TEL121.POCCTLDATJEA008.IMP;1  
-OSAI:TEL121.POCCTLDATJEA001.IMP;9  
-OSAI:TEL121.POCCTLDATJEA002.IMP;10  
-OSAI:TEL121.POCCTLDATJEA005.IMP;11  
-OSAI:TEL121.POCCTLDATJEA100.IMP;9  
-OSAI:TEL121.POCCTLDATJEA1011.IMP;3  
-OSAI:TEL121.POCCTLDATJOPSENG.IMP;10

POCC INPUT CARD ERROR CHECKING PROGRAM

OPTIONS AVAILABLE:  
1 - BY PARTICULAR INPUT FILE  
2 - ALL INPUT FILES (LATEST VERSIONS)  
CHOOSE OPTION >1

ENTER INPUT FILENAME >NS005.IMP

LINE 8 CARD IMAGE  
1 HDR,INS005,0,9-JAN-81,S.NOVEMAN,2/81,FAUST;  
2 MAN,STBY,3,4,MONITOR EXPERIMENT TEMPS AND STATUS;  
3 INI,LAUNCH,,,,,+12.0;  
4 TER,LANDING,,,,,-12.0;

24 DUP;  
25 TTL,1,4,NN,NON EXPERIMENT;  
26 DUP;  
27 \*\*\*,CMD NOT REQUIRED;  
28 \*\*\*,PBD NOT REQUIRED;

FILE: MS005.INP  
FORTRAN STOP  
\*  
\*

HAS NO ERRORS.

\$ MET OS/1:CEL121.POCCTLDAT1

LIST OF VERIFIED FILES IN DIRECTORY  
 --OS/1:CEL121.POCCTLDAT1E033.UFY,13  
 --OS/1:CEL121.POCCTLDAT1E034.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E013.UFY,8  
 --OS/1:CEL121.POCCTLDAT1E014.UFY,3  
 --OS/1:CEL121.POCCTLDAT1E016.UFY,5  
 --OS/1:CEL121.POCCTLDAT1E017.UFY,3  
 --OS/1:CEL121.POCCTLDAT1E019.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E0198.UFY,3  
 --OS/1:CEL121.POCCTLDAT1E020.UFY,5  
 --OS/1:CEL121.POCCTLDAT1E021.UFY,5  
 --OS/1:CEL121.POCCTLDAT1E022.UFY,6  
 --OS/1:CEL121.POCCTLDAT1E023.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E024.UFY,2  
 --OS/1:CEL121.POCCTLDAT1E025.UFY,8  
 --OS/1:CEL121.POCCTLDAT1E02632.UFY,1  
 --OS/1:CEL121.POCCTLDAT1E027.UFY,3  
 --OS/1:CEL121.POCCTLDAT1E028.UFY,2  
 --OS/1:CEL121.POCCTLDAT1E029.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E030.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E031.UFY,3  
 --OS/1:CEL121.POCCTLDAT1E0301.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E0308.UFY,4  
 --OS/1:CEL121.POCCTLDAT1E0356.UFY,4  
 --OS/1:CEL121.POCCTLDAT1M008.UFY,1  
 --OS/1:CEL121.POCCTLDAT1M5002.UFY,1  
 --OS/1:CEL121.POCCTLDAT1M5003.UFY,5  
 --OS/1:CEL121.POCCTLDAT1M5005.UFY,18  
 --OS/1:CEL121.POCCTLDAT1M5100.UFY,9  
 --OS/1:CEL121.POCCTLDAT1M7011.UFY,3  
 --OS/1:CEL121.POCCTLDAT1OPSENG.UFY,8

POCC MET CORRELATION PROGRAM

IT TAKES A WHILE TO INITIALIZE...

LANDING TIME IS 0.1655000000E+03 MET HOURS.

AVAILABLE OPTIONS:  
 0 - STOP PROCESSING  
 1 - SINGLE VERIFIED INPUT FILE  
 2 - PROCESS ALL VERIFIED INPUT FILES  
 ENTER OPTION >1  
 ENTER FILENAME >NS005.UFY

PROCESSING FILE: NS005.UFY

CORRELATING MAN FOR USER 1NS005 USING:  
 INI-DATA: LAUNCH 0 0 :  
 TER-DATA: LANDING 0 0 :  
 0 12.00  
 0 -12.00

GENERATING PERIODIC DATA USING:  
 PER-DATA: 0.4000000000E+01  
 1 0.1000000000E+0

GENERATING PERIODIC ON/OFF DATA

CORRELATING RTD FOR USER 1NS005 USING:  
 INI-DATA: LAUNCH 0 0 :  
 TER-DATA: LANDING 0 0 :  
 0 12.00  
 0 -12.00

DUPLICATING LAST RES-ON/OFF DATA

CORRELATING TML FOR USER 1NS005 USING:  
 INI-DATA: LAUNCH 0 0 :  
 TER-DATA: LANDING 0 0 :  
 0 12.00  
 0 -12.00

DUPLICATING LAST RES-ON/OFF DATA

CORRELATING MAN FOR USER 1NS005 USING:  
 INI-DATA: 005-F01A 1 0S:  
 TER-DATA: 005-F01A 4 0E:  
 0 -1.00  
 0 0.30

CORRELATING MAN FOR USER 1NS005 USING:  
 INI-DATA: 005-F01A 1 0S:  
 TER-DATA: 005-F01A 4 0E:  
 0 -1.00  
 0 0.30

DUPLICATING LAST RES-ON/OFF DATA

CORRELATING RTD FOR USER 1NS005 USING:  
 INI-DATA: 005-F01A 1 0S:  
 TER-DATA: 005-F01A 4 0E:  
 0 -1.00  
 0 0.30

DUPLICATING LAST RES-ON/OFF DATA

CORRELATING TML FOR USER 1NS005 USING:  
 INI-DATA: 005-F01A 1 0S:  
 TER-DATA: 005-F01A 4 0E:  
 0 -1.00  
 0 0.30

DUPLICATING LAST RES-ON/OFF DATA

CORRELATING MAN FOR USER 1NS005 USING:  
 INI-DATA: 005-F01C 1 0S:  
 TER-DATA: 005-F01C 6 0E:  
 0 -1.00

0E: 0 0.30  
CORRELATING RTD FOR USER 1NS005 USING:  
INI-DATA: 005-FOIC 1 0S: 0 -1.00  
TER-DATA: 005-FOIC 6 0E: 0 0.30  
PROCESSING FILE: SLIGSE  
PROCESSING FILE: SL1MAN  
PROCESSING FILE: SL1PBD  
PROCESSING FILE: SL1RTD  
PROCESSING FILE: SL1TML  
THE FILES ARE NOW TIME-ORDERED

DUPLICATING LAST RES-ON/OFF DATA  
CORRELATING TML FOR USER 1NS005 USING:  
INI-DATA: 005-FOIC 1 0S: 0 -1.00  
TER-DATA: 005-FOIC 6 0E: 0 0.30

DUPLICATING LAST RES-ON/OFF DATA  
--- ACCESSING OLD RES FILE: IEL121JSL1MAN.DAT ---  
--- OLD SUBJECT 1NS005 DELETED FROM FILE  
--- NEW SUBJECT 1NS005 INCLUDED IN FILE  
--- ACCESSING OLD RES FILE: IEL121JSL1TML.DAT ---  
--- OLD SUBJECT 1NS005 DELETED FROM FILE  
--- NEW SUBJECT 1NS005 INCLUDED IN FILE  
--- ACCESSING OLD RES FILE: IEL121JSL1RTD.DAT ---  
--- OLD SUBJECT 1NS005 DELETED FROM FILE  
--- NEW SUBJECT 1NS005 INCLUDED IN FILE  
--- ACCESSING OLD RES FILE: IEL121JSL1RTD.DAT ---  
--- OLD SUBJECT 1NS005 DELETED FROM FILE  
--- NEW SUBJECT 1NS005 INCLUDED IN FILE  
--- RESOURCE(S) ON/OFF DATA WRITTEN TO PERMANENT FILE(S) ---

AVAILABLE OPTIONS:  
0 - STOP PROCESSING  
1 - SINGLE VERIFIED INPUT FILE  
2 - PROCESS ALL VERIFIED INPUT FILES  
ENTER OPTION >0

PROCESSING COMPLETED. A COPY OF THE TERMINAL PRINTOUT  
IS LOCATED IN FILE: POCCHET.LIS FOR YOUR USE.

TYPE 8 TYPE POCCHET.LIS TO LIST IT ON TT:  
OR 8 PRINT POCCHET.LIS TO SPOOL IT ON LP:  
ALL DONE

THE ON/OFF FILES ARE NOW BEING TIME-ORDERED.  
IT MAY TAKE A WHILE...

PROCESSING FILE: SL1ATC  
PROCESSING FILE: SL1CMD

```

$ PINPUT
  QSA1:LEL121.POCCTLDAT1
VERIFIED INPUT REVIEW PROGRAM

LIST OF VERIFIED FILES
-QSA1:LEL121.POCCTLDATJES033.UFY;13
-QSA1:LEL121.POCCTLDATJES034.UFY;4
-QSA1:LEL121.POCCTLDATJES013.UFY;8
-QSA1:LEL121.POCCTLDATJES014.UFY;3
-QSA1:LEL121.POCCTLDATJES016.UFY;5
-QSA1:LEL121.POCCTLDATJES017.UFY;3
-QSA1:LEL121.POCCTLDATJES019.UFY;4
-QSA1:LEL121.POCCTLDATJES0198.UFY;3
-QSA1:LEL121.POCCTLDATJES020.UFY;5
-QSA1:LEL121.POCCTLDATJES021.UFY;5
-QSA1:LEL121.POCCTLDATJES022.UFY;6
-QSA1:LEL121.POCCTLDATJES023.UFY;4
-QSA1:LEL121.POCCTLDATJES024.UFY;2
-QSA1:LEL121.POCCTLDATJES025.UFY;8
-QSA1:LEL121.POCCTLDATJES02632.UFY;1
-QSA1:LEL121.POCCTLDATJES027.UFY;3
-QSA1:LEL121.POCCTLDATJES028.UFY;2
-QSA1:LEL121.POCCTLDATJES029.UFY;4
-QSA1:LEL121.POCCTLDATJES030.UFY;4
-QSA1:LEL121.POCCTLDATJES031.UFY;3
-QSA1:LEL121.POCCTLDATJES201.UFY;4
-QSA1:LEL121.POCCTLDATJES300.UFY;4
-QSA1:LEL121.POCCTLDATJES338.UFY;4
-QSA1:LEL121.POCCTLDATJES356.UFY;4
-QSA1:LEL121.POCCTLDATJES008.UFY;1
-QSA1:LEL121.POCCTLDATJES001.UFY;8
-QSA1:LEL121.POCCTLDATJES002.UFY;1
-QSA1:LEL121.POCCTLDATJES003.UFY;5
-QSA1:LEL121.POCCTLDATJES005.UFY;18
-QSA1:LEL121.POCCTLDATJES100.UFY;9
-QSA1:LEL121.POCCTLDATJES1011.UFY;3
AVAILABLE OPTIONS:
  1 - ALL UFY FILES
  2 - INDIVIDUAL FILE
ENTER OPTION: 2
ENTER FILENAME: NS005.UFY
DO YOU WANT TO SPOOL THE PRINT FILE(S) (YES/NO): YES
  Job 154 entered on queue LPA0
$

```

§ ATGSUM  
AIR TO GROUND SUMMARY REPORT PROGRAM  
  
AVAILABLE OPTIONS -  
1 - PROCESS FULL TIME SPAN  
2 - ENTER A TIME SPAN TO PROCESS  
ENTER OPTION >1  
- FORTRAN STOP  
§

8 CNDSUM  
 COMMAND SUMMARY REPORT PROGRAM  
 PREVIOUS LOGICAL NAME ASSIGNMENT REPLACED  
 PREVIOUS LOGICAL NAME ASSIGNMENT REPLACED

PROCESSING TDRS PERIOD \$ 10  
 PROCESSING TDRS PERIOD \$ 20  
 PROCESSING TDRS PERIOD \$ 30  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 38  
 REC \$ 102 USER: 1EA033 ON/OFF: 0.336555573E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 39  
 REC \$ 106 USER: 1EA033 ON/OFF: 0.3516666794E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 39  
 REC \$ 107 USER: 1EA033 ON/OFF: 0.3532222366E+02  
 PROCESSING TDRS PERIOD \$ 40  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 40  
 REC \$ 113 USER: 1EA033 ON/OFF: 0.3689555725E+02  
 PROCESSING TDRS PERIOD \$ 50  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 59  
 REC \$ 173 USER: 0PSENG ON/OFF: 0.5700000000E+02  
 PROCESSING TDRS PERIOD \$ 60  
 PROCESSING TDRS PERIOD \$ 70  
 PROCESSING TDRS PERIOD \$ 80  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 86  
 REC \$ 268 USER: 1EA033 ON/OFF: 0.8449444580E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 88  
 REC \$ 286 USER: 1EA033 ON/OFF: 0.8773332977E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 88  
 REC \$ 287 USER: 1EA034 ON/OFF: 0.8785555267E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 88  
 REC \$ 288 USER: 1EA033 ON/OFF: 0.8869999695E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 88  
 REC \$ 289 USER: 1EA033 ON/OFF: 0.8880000305E+02  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 88  
 REC \$ 290 USER: 0PSENG ON/OFF: 0.9000000000E+02  
 PROCESSING TDRS PERIOD \$ 90

0.3450000000E+02  
 0.3602222443E+02  
 0.3612777710E+02  
 0.3764444351E+02  
 0.5800000000E+02  
 0.8531666565E+02  
 0.8853333282E+02  
 0.8940555573E+02  
 0.8940000153E+02  
 0.8976666820E+02  
 0.9050000000E+02

ORIGINAL PAGE IS  
 OF POOR QUALITY



PROCESSING TDRS PERIOD \$ 100  
 PROCESSING TDRS PERIOD \$ 110  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 110  
 REC \$ 399 USER: 1E933 ON/OFF: 0.11561115E+03 0.1123666611E+03  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 111  
 REC \$ 410 USER: OPSENG ON/OFF: 0.1140000000E+03 0.1145000000E+03  
 PROCESSING TDRS PERIOD \$ 120  
 PROCESSING TDRS PERIOD \$ 130  
 PROCESSING TDRS PERIOD \$ 140  
 THE FOLLOWING CMD ON/OFF IS NOT WITHIN TDRS PERIOD \$ 146  
 REC \$ 507 USER: OPSENG ON/OFF: 0.1500000000E+03 0.1505000000E+03  
 PROCESSING TDRS PERIOD \$ 150  
 COMMAND SUMMARY REPORT COMPLETED!  
 REPORT IS IN FILE: CHDSUMMARY.LIS

14 DIAGNOSTICS MESSAGES ARE IN FILE: CHDSUMERR.LIS  
 FORTRAN STOP

\$ CMDJIN  
 COMMAND WINDOW REPORT PROGRAM  
 FORTRAN STOP

\$ MANSUM  
 MANNING SUMMARY REPORT PROGRAM  
 AVAILABLE OPTIONS -  
 1 - PROCESS FULL TIME SPAN  
 2 - ENTER A TIME SPAN TO PROCESS  
 ENTER OPTION >1

PROCESSING USER: 1EA034  
 PROCESSING USER: 1ES013  
 PROCESSING USER: 1ES014  
 PROCESSING USER: 1ES016  
 PROCESSING USER: 1ES017  
 PROCESSING USER: 1ES019  
 PROCESSING USER: 1ES020  
 PROCESSING USER: 1ES021  
 PROCESSING USER: 1ES022  
 PROCESSING USER: 1ES023  
 PROCESSING USER: 1ES024  
 PROCESSING USER: 1ES025  
 PROCESSING USER: 1ES2632  
 PROCESSING USER: 1ES027  
 PROCESSING USER: 1ES028  
 PROCESSING USER: 1ES029  
 PROCESSING USER: 1ES030  
 PROCESSING USER: 1ES031  
 PROCESSING USER: 1ES201  
 PROCESSING USER: 1ES300  
 PROCESSING USER: 1ES338  
 PROCESSING USER: 1ES356  
 PROCESSING USER: 1NA008  
 PROCESSING USER: 1NS002  
 PROCESSING USER: 1NS003

PROCESSING USER: 1NT011  
 PROCESSING USER: 1NS001  
 PROCESSING USER: 1EA033  
 PROCESSING USER: 1NS100  
 PROCESSING USER: 1NS005  
 STARTING PRINTOUT  
 FORTRAN STOP  
 \$

```
$ MANRM
MAINING REPORT BY ROOM PROGRAM

AVAILABLE OPTIONS -
1 - PROCESS FULL TIME SPAN
2 - ENTER A TIME SPAN TO PROCESS
ENTER OPTION >1

ROOM SELECT OPTIONS -
1 - ALL ROOMS
2 - ONE PARTICULAR ROOM
ENTER OPTION >2

ENTER ROOM NUMBER (0-8) >3

PROCESSING ROOM # 3
PROCESSING USER: 1ES025
PROCESSING USER: 1ES2632
PROCESSING USER: 1ES027
PROCESSING USER: 1ES028
PROCESSING USER: 1ES029
PROCESSING USER: 1ES030
PROCESSING USER: 1ES031
PROCESSING USER: 1ES201
PROCESSING USER: 1ES338
PROCESSING USER: 1NS100

STARTING PRINTOUT
FORTRAN STOP
$
```

```
$ TMLRM  
TERMINAL BY ROOM REPORT PROGRAM  
  
AVAILABLE OPTIONS -  
1 - PROCESS FULL TIME SPAN  
2 - ENTER A TIME SPAN TO PROCESS  
ENTER OPTION >1  
  
ROOM SELECT OPTIONS -  
1 - ALL ROOMS  
2 - ONE PARTICULAR ROOM  
ENTER OPTION >2  
  
ENTER ROOM NUMBER (0-8) >3  
PROCESSING ROOM # 3  
PROCESSING USER: 1ES031  
STARTING PRINTOUT  
FORTRAN STOP  
$
```

\$ TMLSUM  
TERMINAL UTIL. SUMMARY REPORT PROGRAM  
PREVIOUS LOGICAL NAME ASSIGNMENT REPLACED  
PREVIOUS LOGICAL NAME ASSIGNMENT REPLACED

AVAILABLE OPTIONS -  
1 - PROCESS FULL TIME SPAN  
2 - ENTER A TIME SPAN TO PROCESS  
ENTER OPTION >1

PROCESSING USER: 1EA034

PROCESSING USER: 1ES013

PROCESSING USER: 1ES016

PROCESSING USER: 1ES017

PROCESSING USER: 1ES019

PROCESSING USER: 1ES020

PROCESSING USER: 1ES021

PROCESSING USER: 1ES022

PROCESSING USER: 1ES023

PROCESSING USER: 1ES024

PROCESSING USER: 1ES031

PROCESSING USER: 1ES300

PROCESSING USER: 1NA008

PROCESSING USER: 1NS002

PROCESSING USER: 1MS003

PROCESSING USER: 1NS005

PROCESSING USER: 1NT011

PROCESSING USER: 1MS001

PROCESSING USER: 1EA033

STARTING PRINTOUT  
FORTRAN STOP  
6



PROCESSING USER: 1EA033  
PROCESSING USER: 1NS100  
PROCESSING USER: 1NS005

\*\*\* STARTING OUTPUT \*\*\*  
FORTRAN STOP  
\$

\$ GSESUM  
GSE SUMMARY REPORT PROGRAM

AVAILABLE OPTIONS -  
1 - PROCESS FULL TIME SPAN  
2 - ENTER A TIME SPAN TO PROCESS  
ENTER OPTION > 1

PROCESSING USER: 1EA034  
PROCESSING USER: 1ES013  
PROCESSING USER: 1ES016  
PROCESSING USER: 1ES017  
PROCESSING USER: 1ES019  
PROCESSING USER: 1ES020  
PROCESSING USER: 1ES023  
PROCESSING USER: 1NA008  
PROCESSING USER: 1NS002  
PROCESSING USER: 1NS003  
PROCESSING USER: 1NT011  
PROCESSING USER: 1NS001  
PROCESSING USER: 1NS100


\*\*\* STARTING PRINTOUT \*\*\*  
FORTRAN STOP  
\$

## APPROVAL

### PAYLOAD OPERATIONS CONTROL CENTER (POCC) TIMELINE ANALYSIS PROGRAM

By Dr. David L. Shipman, Steven R. Noneman,  
and E. Steven Terry

The information in this report has been reviewed for technical content. Review of any information concerning Department of Defense or nuclear energy activities or programs has been made by the MSFC Security Classification Officer. This report, in its entirety, has been determined to be unclassified.



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