NASA Contractor Report 177949

NASA-CR-177949
19850026206

USER'S OPERATING PROCEDURES
VOLUME II - SCOUT PROJECT FINANCIAL ANALYSIS PROGRAM

Cynthia G. Harris and Danny K. Harris

PRC KENTRON, INC.
Hampton, Virginia

Contract NASI-18000
July 1985

NASA
National Aeronautics and Space Administration
Langley Research Center
Hampton, Virginia 23665
# User's Operating Procedures

**Title and Subtitle**
User's Operating Procedures  
Vol. II  
Scout Project Financial Analysis Program

**Author(s)**
Cynthia G. Harris and Danny K. Harris

**Performing Organization Name and Address**
PRC KENTRON, Inc.  
3221 N. Armistead Avenue  
Hampton, VA 23666

**Sponsoring Agency Name and Address**
National Aeronautics and Space Administration  
Washington, DC 20546

**Abstract**
VOLUME II: SCOUT PROJECT FINANCIAL ANALYSIS PROGRAM  
This contractor report is a review of the user's operating procedures for the Scout Project Automatic Data system, called SPADS. SPADS is the result of the past seven (7) years of software development on a Prime minicomputer located at the Scout Project Office, NASA Langley Research Center, Hampton, Virginia. SPADS was developed as a single entry, multiple cross-reference data management and information retrieval system for the automation of Project office tasks, including engineering, financial, managerial, and clerical support. This volume, two (2) of three (3), provides the instructions to operate the Scout Project Financial Analysis program in data retrieval and file maintenance via the user friendly menu drivers.

**Key Words (Suggested by Author(s))**
Operating Procedures, Financial Management, Information System, Data Base, Management Tool, Scout Project

**Distribution Statement**
Unclassified - Unlimited  
Subject Category 61
# USER'S OPERATING PROCEDURES MANUAL
FOR SCOUT PROJECT OFFICE, NASA LARC

## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>INTRODUCTION</td>
<td>1</td>
</tr>
<tr>
<td>1.1</td>
<td>SECTION DESCRIPTIONS</td>
<td>2</td>
</tr>
<tr>
<td>2.0</td>
<td>BASIC OPERATING PROCEDURES</td>
<td>4</td>
</tr>
<tr>
<td>2.1</td>
<td>LOG IN</td>
<td>4</td>
</tr>
<tr>
<td>2.2</td>
<td>PROGRAM ENTRY</td>
<td>5</td>
</tr>
<tr>
<td>2.3</td>
<td>PROGRAM EXIT</td>
<td>6</td>
</tr>
<tr>
<td>2.4</td>
<td>ENTERING ANALYSIS</td>
<td>6</td>
</tr>
<tr>
<td>2.5</td>
<td>FINANCIAL ANALYSIS RECORD DESCRIPTION</td>
<td>13</td>
</tr>
<tr>
<td>2.6</td>
<td>INPUT OPERATIONS</td>
<td>14</td>
</tr>
<tr>
<td>2.7</td>
<td>UPDATE OPERATIONS</td>
<td>14</td>
</tr>
<tr>
<td>2.8</td>
<td>SYSTEM EXIT / LOGOUT</td>
<td>14</td>
</tr>
<tr>
<td>3.0</td>
<td>SPECIAL OPERATIONS</td>
<td>17</td>
</tr>
<tr>
<td>3.1</td>
<td>PRINTOUT SPOOLING</td>
<td>17</td>
</tr>
<tr>
<td>3.2</td>
<td>EMERGENCY / RECOVERY</td>
<td>19</td>
</tr>
<tr>
<td>3.2.1</td>
<td>SOFTWARE / OPERATOR ERRORS FOR SPADS</td>
<td>19</td>
</tr>
<tr>
<td>3.2.2</td>
<td>FILE IN USE</td>
<td>19</td>
</tr>
<tr>
<td>4.0</td>
<td>RETRIEVE OPTION</td>
<td>21</td>
</tr>
<tr>
<td>4.1</td>
<td>MOD OPTION</td>
<td>21</td>
</tr>
<tr>
<td>4.1.1</td>
<td>SAMPLE MOD / ADD OPTION</td>
<td>22</td>
</tr>
<tr>
<td>4.1.2</td>
<td>SAMPLE MOD / ADD OPTION WITH JOB ORDER CHANGES</td>
<td>29</td>
</tr>
<tr>
<td>4.1.3</td>
<td>HOURS AND DOLLARS DATA CHANGES</td>
<td>33</td>
</tr>
<tr>
<td>4.2</td>
<td>DELETE OPTION</td>
<td>37</td>
</tr>
<tr>
<td>4.3</td>
<td>SPOOL OPTION</td>
<td>39</td>
</tr>
<tr>
<td>5.0</td>
<td>INPUT OPTION</td>
<td>41</td>
</tr>
<tr>
<td>6.0</td>
<td>BOOK PART OPTION</td>
<td>44</td>
</tr>
<tr>
<td>6.1</td>
<td>ENTIRE RECORD OPTION</td>
<td>44</td>
</tr>
<tr>
<td>6.2</td>
<td>BRIEF LISTING OPTION</td>
<td>45</td>
</tr>
</tbody>
</table>
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>7.0 REPORT OPTION</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 TABLE REPORT</td>
<td>47</td>
</tr>
<tr>
<td>7.1.1 FEE TABLE</td>
<td>47</td>
</tr>
<tr>
<td>7.1.2 RATE TABLE</td>
<td>48</td>
</tr>
<tr>
<td>7.1.3 SUSTAINING JOB ORDERS TABLE</td>
<td>49</td>
</tr>
<tr>
<td>7.1.4 PROGRAM NUMBERS TABLE</td>
<td>50</td>
</tr>
<tr>
<td>7.1.5 TIME TABLE</td>
<td>51</td>
</tr>
<tr>
<td>7.2 533 REPORT</td>
<td>52</td>
</tr>
<tr>
<td>7.3 POP'S REPORT</td>
<td>53</td>
</tr>
<tr>
<td>7.4 PROGRAM COST</td>
<td>56</td>
</tr>
<tr>
<td>7.4.1 PROGRAM REPORT</td>
<td>56</td>
</tr>
<tr>
<td>7.4.2 SUB-JOB ORDER REPORT</td>
<td>59</td>
</tr>
<tr>
<td>7.4.3 W.A. REPORT</td>
<td>59</td>
</tr>
<tr>
<td>7.5 PROGRAM HOUR</td>
<td>60</td>
</tr>
<tr>
<td>7.5.1 PROGRAM REPORT</td>
<td>61</td>
</tr>
<tr>
<td>7.5.2 SUB-JOB ORDER REPORT</td>
<td>62</td>
</tr>
<tr>
<td>7.5.3 W.A. REPORT</td>
<td>63</td>
</tr>
<tr>
<td>7.6 PRORATION REPORT</td>
<td>64</td>
</tr>
<tr>
<td>7.6.1 HOURLY REPORT</td>
<td>65</td>
</tr>
<tr>
<td>7.6.2 DOLLAR REPORT</td>
<td>66</td>
</tr>
<tr>
<td>7.6.3 DOD REPORT</td>
<td>68</td>
</tr>
<tr>
<td>7.6.3.1 HARDWARE COSTS REPORT</td>
<td>69</td>
</tr>
<tr>
<td>7.6.3.2 MISSION COSTS REPORT</td>
<td>70</td>
</tr>
<tr>
<td>7.6.3.3 ANNUAL COSTS REPORT</td>
<td>71</td>
</tr>
<tr>
<td>7.7 DISCREPANCY REPORT</td>
<td>73</td>
</tr>
<tr>
<td>7.8 BALANCE SHEET REPORT</td>
<td>74</td>
</tr>
<tr>
<td>7.9 W.A. STATUS REPORT</td>
<td>74</td>
</tr>
<tr>
<td>7.10 PROCESSING REPORT</td>
<td>75</td>
</tr>
<tr>
<td>7.11 SUMMARY REPORT</td>
<td>77</td>
</tr>
<tr>
<td>7.11.1 ACTUAL REPORT</td>
<td>77</td>
</tr>
<tr>
<td>7.11.2 TASK REPORT</td>
<td>77</td>
</tr>
<tr>
<td>7.11.3 W.A. REPORT</td>
<td>79</td>
</tr>
<tr>
<td>7.11.4 VARIANCE REPORT</td>
<td>80</td>
</tr>
<tr>
<td>7.11.5 YEARLY REPORT</td>
<td>81</td>
</tr>
<tr>
<td>8.0 UPDATE OPTION</td>
<td>84</td>
</tr>
<tr>
<td>8.1 DALLAS TAPE UPDATE</td>
<td>84</td>
</tr>
<tr>
<td>8.2 BALANCE SHEET UPDATE</td>
<td>86</td>
</tr>
<tr>
<td>8.3 ETC EAC-BUDGET UPDATE</td>
<td>87</td>
</tr>
<tr>
<td>8.4 QUICKIE HEADER UPDATE</td>
<td>90</td>
</tr>
<tr>
<td>8.5 EDIT TABLES OPTION</td>
<td>92</td>
</tr>
<tr>
<td>8.5.1 FEE TABLE UPDATE</td>
<td>93</td>
</tr>
<tr>
<td>8.5.2 RATE TABLE UPDATE</td>
<td>96</td>
</tr>
<tr>
<td>8.5.3 SUSTAINING TABLE UPDATE</td>
<td>97</td>
</tr>
<tr>
<td>8.5.4 PROGRAM NUMBER / JOB ORDER TABLE UPDATE</td>
<td>100</td>
</tr>
<tr>
<td>8.5.5 TIME TABLE UPDATE</td>
<td>101</td>
</tr>
<tr>
<td>8.5.6 SECURITY TABLE UPDATE</td>
<td>102</td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>PAGE NO.</td>
</tr>
<tr>
<td>========================================================</td>
<td>==========</td>
</tr>
<tr>
<td>8.6 RESORT DATA BASE OPTION</td>
<td>103</td>
</tr>
<tr>
<td>8.7 BOOK ALL OUTPUTS</td>
<td>104</td>
</tr>
<tr>
<td>8.8 JOB ORDERS UPDATE</td>
<td>105</td>
</tr>
<tr>
<td>8.8.1 REBUILD JOB ORDERS FROM SUSTAINING TABLE</td>
<td>106</td>
</tr>
<tr>
<td>8.8.2 UPDATE PROGRAM NUMBERS</td>
<td>108</td>
</tr>
<tr>
<td>9.0 RATE TABLE OPTION</td>
<td>109</td>
</tr>
</tbody>
</table>
This Page Intentionally Left Blank
APPENDICES FOR VOLUME II - ANALYSIS

A-1   BOOK PART EXAMPLE OF BRIEF OPTION FOR CONTRACT ANALYSIS FILE
B-1   BOOK ALL LISTING FORMAT FOR CONTRACT ANALYSIS FILE
C-1   BOOK ALL ENTIRE RECORD FORMAT FOR CONTRACT ANALYSIS FILE
D-1   FEE TABLE REPORT
D-2   RATE TABLE REPORT
D-3   SUSTAINING JOB ORDERS TABLE REPORT
D-4   PROGRAM NUMBERS TABLE REPORT
D-5   TIME TABLE REPORT
E-1   1ST QUARTER 533 REPORT
E-2   2ND QUARTER 533 REPORT
E-3   3RD QUARTER 533 REPORT
E-4   4TH QUARTER 533 REPORT
F-1   POP1 REPORT
F-2   POP2 REPORT
G-1   PROGRAM COST REPORT
G-2   SUB-JOB ORDER COST REPORT
G-3   WA COST REPORT
H-1   PROGRAM HOURLY REPORT
H-2   SUB-JOB ORDER HOURLY REPORT
H-3   WA HOURLY REPORT
I-1   REGULAR PRORATION HOURLY REPORT
I-2   SPECIAL R SUBTASK PRORATION HOURLY REPORT
I-3   SUB-JOB ORDER PRORATION HOURLY REPORT
J-1  REGULAR PRORATION OF COSTS REPORT
J-2  SPECIAL R SUBTASK PRORATION OF COSTS REPORT
J-3  SUB-JOB ORDER PRORATION OF COSTS REPORT
K-1  DOD HARDWARE COSTS REPORT
K-2  DOD MISSION COSTS REPORT
K-3  DOD ANNUAL COSTS REPORT
L-1  BALANCE SHEET REPORT
M-1  WA STATUS REPORT
N-1  PROCESSING REPORT
O-1  ACTUAL SUMMARY REPORT
O-2  TASK SUMMARY REPORT
O-3  WA SUMMARY REPORT
O-4  VARIANCE SUMMARY REPORT
O-5  YEARLY MIN-MAX REPORT
1.0 INTRODUCTION

During the research, development and operational phases of the Scout Project, large quantities of documentation are generated to describe analytical studies and correspondence from mission definition through postflight analysis. Some of these documents take the form of financial analyses, which are contained in the Contract Analysis data base.

The Contract Analysis file data base area contains financial and schedule information for the following:

- MOTOR CONTRACTS NAS1-9258, 11400, 13100, and 14200
- VEHICLE HARDWARE CONTRACT NAS1-11000
- CPFF SPECIAL PROGRAM CONTRACT NAS1-15100 and NAS1-18100
- SYSTEMS MANAGEMENT CONTRACTS NAS1-10000, 12500, 15000, 16200, and NAS1-18200
- OTHER MISCELLANEOUS CONTRACTS NAS1-MISC.

This document is intended to provide the operating procedures required for a user to access the Financial Analysis program and retrieve data based on various query parameters, and for maintaining the analysis data files. Input, update, delete, retrieve, and report options will be discussed and illustrated. The following sections are designed to demonstrate the menu driven, user friendly methods by which a user is to operate with either a PT65 terminal or a DATAGRAPHIX-132 terminal. A PT65 is a PRIME terminal specialized for use in word processing. A DATAGRAPHIX-132 has a 132 character screen and will accommodate wider reports on the terminal screen. Please note that a PT65 must be DOWNLINE LOADED before operating any program.

Some commands are privileged commands and require a security clearance for use. The Analysis program checks internally for the proper clearance on a specific user ID before permitting entrance into certain areas of
1. SECTION DESCRIPTIONS

The purpose of this section is to give a brief description of each of the following sections of this document.

1. INTRODUCTION : Analysis data bases for financial contracts NAS1-9258, NAS1-10000, NAS1-11000, NAS1-11400, NAS1-12500, NAS1-13100, NAS1-14200, NAS1-15000, NAS1-15100, NAS1-16200, & MISCELLANEOUS. NAS1-FINAL will be incorporated into the data base when the follow-on contract number has been established.

2. BASIC OPERATIONS : Login, entering Analysis, record field de­criptions, error messages and logout pro­cedures.

3. SPECIAL OPERATIONS : Spooling and emergency / recovery procedures.

4. RETRIEVE : All operating procedures and examples for selecting a record from the Analysis data base using various search and retrieve cri­teria. The three (3) principle options of MOD, DELETE, and SPOOL are further discussed.

5. INPUT : All operating procedures and examples for in­putting a new data record Into the Analysis data base.

6. BOOK PART : All operating procedures and examples for Analysis data base query and output list­ing generation of retrieved records which satisfy the search criteria.

7. REPORT : All operating procedures and examples for generating and printing various specialized reports on hourly and cost information con­tained in the Analysis data base.

8. UPDATE : All operating procedures and examples for updating the financial data base and all supporting lookup tables. Housekeeping and sorting procedures are discussed along with rebuilding of job order and program number information in Analysis data base records.
9. RATE TABLE: All operating procedures and examples for using the rate table as an adhoc calculator.
2.0 BASIC OPERATING PROCEDURES

The purpose of this section is to provide a description of the terminal actions the user must perform in order to login to the PRIME 750 computer system, enter the Contract Analysis program from the SPADS main menu, and then exit the system. Note that all user actions are terminated with a carriage return, designated by the key marked RETURN on the terminal. Input forms, update forms, and error messages will also be discussed.

2.1 LOGIN

User actions for login are displayed below. The user's initials are denoted by 'XXX'; 'N' is the terminal line number; 'HR', 'MN', and 'SC' are the time the user entered the system in hours, minutes, and seconds; 'MM', 'DD', and 'YY' are the month, day, and year. See the example below.

OK, LOGIN PLEASE

LOGIN XXX
Password?

XXX (USER N) LOGGED IN DAY, DD MM YY HR:MN:SC
Welcome to PRIMOS version REV#.
Last login Day, DD MM YY HR:MN:SC

HI I,

ENTER PASSWORD >

Note that for security reasons the passwords are not visible on the terminal screen. If no password has been assigned, simply hit the carriage return. An incorrect first password will result in the following error message: 'Invalid user id or password; please try again'.

An incorrect second password will result in an '*** ERROR ***' message with up to three retries. On the third incorrect attempt, the system will automati-
cally log the user off the system. If the login and password procedures are performed correctly, the user will see a display of the SYSTEM NEWS on the terminal. The SYSTEM NEWS is a short description of any special events affecting operations of the computer system. See the example below:

```
SYSTEM NEWS

***************************************************
* PRIME MONTHLY PREVENTIVE MAINTENANCE *
* NOW SCHEDULED FOR THE FIRST *
* MONDAY OF EACH MONTH ... 7 TO 9 AM (EST) *
***************************************************
```

2.2 PROGRAM ENTRY

After system login has been completed, the user must specify the program selection from the SPADS main menu displayed on the terminal screen as shown below. In the 'WELCOME' acknowledgement to the user, 'AAAAAA' represents the first name. See the following example:

```
Welcome AAAAAA to the PRIME 750 SPADS Main Menu

The following is a list of programs for the Scout Project Office
```

```
(0) Logout Menu
(1) Change Request
(2) Dir / Report
(3) Motor Information
(4) Office Automation
(5) Mark Up's / CR'S
(6) Program Development
(7) Scheduler System
(8) Contracts Analysis
(9) Mail Log Correspondence
(10) Property Inventory
(11) History Information
(12) Cross Refer. Index
(13) Alpha Numeric Index
(14) Daily Work Items
(15) Conference Registration
(16) Pilot Study - Future Program
(17) Telemail Network
```

```
Enter Option Number >
```

Note that Contract Analysis is option #8 on the SPADS main menu.
2.3 PROGRAM EXIT

To leave the Analysis program the user must enter a zero as shown on the menu. Note that in most cases a carriage return is interpreted as a zero entry. Exit from a menu will return the user to the previous menu until the Analysis Contract selection menu is reached. The user can then display the spool queue, display all users currently logged into the system, return to the SPADS master menu, or logout. These options are discussed in further detail in section 2.4 of this document.

2.4 ENTERING ANALYSIS

The first menu displayed to the user is the Contract selection menu as shown below.

```
WELCOME TO THE SCOUT PROJECT OFFICE CONTRACTS ANALYSIS SYSTEM
******************************************************************
(0) LOGOUT
(1) NAS1-9258   (7) NAS1-14200   (22) NAS1-MISCELLANEOUS
(2) NAS1-10000  (8) NAS1-15000   (33) DISPLAY SPOOL QUEUE
(3) NAS1-11000  (9) NAS1-15100   (44) DISPLAY USERS ON SYSTEM
(4) NAS1-11400  (10) NAS1-16200  (55) DISPLAY PHANTOMS & JOBS
(5) NAS1-12500  (11) NAS1-18100  (66) SEND MESSAGE TO USER
(6) NAS1-13100  (12) NAS1-18200  (77) ANSWER MESSAGE FROM USER
(99) RETURN TO SPADS MAIN MENU

ENTER OPTION >
```

Option 0 ends the user session by performing a system logout.

Options 1 through 12 and 22 enter the user into the selected contract data area.
Options 33 and 44 perform system lookup functions for the user. Option 33 displays the spool queue for status of any output sent to any printer on the system. See the following example:

ENTER OPTION > 33

[SPOOL rev 19.2.3]

<table>
<thead>
<tr>
<th>user</th>
<th>prt</th>
<th>time</th>
<th>name</th>
<th>size</th>
<th>opts/|</th>
<th>form</th>
<th>defer</th>
<th>at: PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DKH</td>
<td>001</td>
<td>9:45</td>
<td>P00717 -DH1</td>
<td>1</td>
<td>N</td>
<td>1</td>
<td>NOTE</td>
<td>9:45 B</td>
</tr>
<tr>
<td>CGH</td>
<td>002</td>
<td>9:46</td>
<td>TWO.1</td>
<td>2</td>
<td></td>
<td>COMP</td>
<td>11:00</td>
<td>A</td>
</tr>
</tbody>
</table>

Return to Continue: ** return **

Option 44 displays the ID codes and terminal line numbers for all users currently logged into the SPADS computer. See the following example:

ENTER OPTION > 44

User | No Line Devices |
-----|----------------|
CL1  | 6 4 <PRJDEV> <COMDEV> |
SMH  | 7 5 <PRJDEV> <COMDEV> |
CGH  | 11 11 <ADMDEV> |
DKH  | 18 20 <ADMDEV> <OASDEV> |

Return to Continue: ** return **

Option 55 displays any slow batch jobs or fast phantoms the user has submitted during the execution of a Cost or Proration report (see sections 7.4, 7.5 and 7.6 of this document). See the following example:

ENTER OPTION > 55

Currently Executing:

User | No Line Devices |
-----|----------------|
DPB  | 3 1 <ADMDEV> <SPODEV> |
DPB  | 71 phant <ADMDEV> <COMDEV> |
DPB  | 73 batch <ADMDEV> <SPODEV> <COMDEV> (0) |

Slow Batch Jobs:
Job status listing for user DPB:

<table>
<thead>
<tr>
<th>Jobid#</th>
<th>State</th>
<th>External name</th>
<th>Queue</th>
</tr>
</thead>
<tbody>
<tr>
<td>#03331</td>
<td>executing</td>
<td>PHAN.COST</td>
<td>slow</td>
</tr>
<tr>
<td>#03332</td>
<td>waiting</td>
<td>PHAN.HOURSUB</td>
<td></td>
</tr>
<tr>
<td>#03333</td>
<td>waiting</td>
<td>PHAN.PROHRS</td>
<td></td>
</tr>
<tr>
<td>#03334</td>
<td>waiting</td>
<td>PHAN.PRORAT</td>
<td></td>
</tr>
<tr>
<td>#03335</td>
<td>waiting</td>
<td>PHAN.POP2</td>
<td></td>
</tr>
</tbody>
</table>

RETURN TO CONTINUE: ** return **

Option 66 allows the user to send a multiple line message to another user currently logged into the system. This option may also be invoked by option 11 on the OAS main menu (see section 4.0 of Volume I). A list of currently available users will be displayed on the terminal screen along with a list of available commands. The appropriate user ID must then be entered. The system will then 'call' the desired user, who must answer the call before the message may be sent. If the user does not answer his 'ring', an opportunity will be given to call again or exit the routine. At the prompt 'SEND>', type the message. Multiple lines may be entered. To end the message, press 'E' key and the 'CMND' or 'CONTROL' key and the 'E' key simultaneously, and then enter a carriage return. This must be the first character entered at the 'SEND>' prompt. To exit the routine, press the 'CMND' key or the 'CONTROL' key and the 'P' key simultaneously, and enter option 4 on the menu. See the following example.

ENTER OPTION > 66

..................ACTIVE USER LIST..................
CGH              DPB              DKH
SL1              GMG              PMK
CH1              CL1              PH1
AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>1
WHO DO YOU WISH TO CALL
*
GMG
ONE MOMENT PLEASE...
*
PHONE IS RINGING...
*

YOUR PARTY IS NOT RECEIVING CALLS AT THIS TIME

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>3

ACTIV USER LIST

CGH ABR DKH
SL1 GMG PMK
CHL CL1 FS2

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>1

WHO DO YOU WISH TO CALL
*
CGG
ONE MOMENT PLEASE...
*
PARTY NOT LOGGED IN

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD> 1
WHO DO YOU WISH TO CALL
*
CGH
ONE MOMENT PLEASE...
*
PHONE IS RINGING...
*
YOUR PARTY IS NOT RESPONDING...CONTINUE WAITING(Y/N)
Y
*
WAITING...
*

TYPE CNTL -P- TO HANGUP PHONE
*
TYPE CNTL -E- TO END MESSAGE
SEND> THIS IS A TEST MESSAGE
SEND> THIS IS THE LAST LINE OF THE MESSAGE
SEND> (* CNTL E * return *)
*
DATA SENT....WAITING FOR RESPONSE
***************************************************************************
THANK YOU FOR MESSAGE. GOODBYE.
***************************************************************************

TYPE CNTL -P- TO HANGUP PHONE
*
TYPE CNTL -E- TO END MESSAGE
SEND> (* CNTL E * return *)
*
LINE DISCONNECTED
*

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD> 4

Option 77 allows the user to receive a multiple line message from another user currently logged into the system. This option is also invoked by option 12 on the OAS main menu (see section 4.0 of Volume I).
When a user receives the following message:

'*** XXX (user #) AT HH:MM
INCOMING CALL ... TYPE PHONE 1'

where XXX is a user ID and HH:MM is the time in hours and minutes, this indicates that the user, after exiting his current program, should type '79' at the Exit menu. A list of the currently available users will be displayed on the terminal screen, along with a list of available commands. Next, 'PLEASE HOLD ... INCOMING CALL' will be displayed. A longer message may take several minutes to be typed in by the sender. After the message has been sent, the prompt 'SEND>' will appear, at which a reply may be sent. This operation is described under option 69 in the previous paragraph. See the following example.

ENTER OPTION > 77

....................ACTIVE USER LIST..................

CGH       DCM       DKH
SL1       GMG       PMK
CH1       CL1       FS2

AVAILABLE COMMANDS
1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD>2
*
PLEASE HOLD...INCOMING CALL

*******************************************************************************
THIS IS A TEST MESSAGE
THIS IS THE LAST LINE OF THE MESSAGE
*******************************************************************************

TYPE CNTL -E- TO END MESSAGE
*
TYPE CNTL -P- TO HANGUP PHONE

- page 11 -
SEND>THANK YOU FOR MESSAGE. GOODBYE.
SEND>(* CNTL E * return *)

DATA SENT...WAITING FOR RESPONSE
*
LINE DISCONNECTED
*

AVAILABLE COMMANDS

1. CALL
2. ANSWER
3. ACTIVE USERS
4. DISCONNECT

CMD> 4

Option 99 displays the SYSTEM NEWS and reInitializes the SPADS main menu.

Once entered into the selected contract data area the user is next given the Analysis main menu as shown below.

******************************
* * *
* CONTRACT: NAS1-16200 *
* * *
******************************

(0) EXIT  (QUIT AND EXIT THIS CONTRACT - RETURN TO CONTRACTS MENU )
(1) RETRIEVE  (SEARCH, GET, AND DISPLAY ON TERMINAL DATA BASE RECORDS )
(2) INPUT  (ADD NEW WA RECORD TO THE DATA BASE - PRIVILEGED COMMAND)
(3) BOOK PART  (SEARCH, GET, AND OUTPUT TO A PRINTER DATA BASE RECORDS )
(4) REPORT  (GENERATE SPECIAL FINANCIAL REPORTS - PRIVILEGED COMMAND)
(5) UPDATE  (HOUSEKEEPING AND UPDATE OPERATIONS - PRIVILEGED COMMAND)
(6) RATETABLE  (USE THE RATE TABLE AS A CALCULATOR - PRIVILEGED COMMAND)

----------------------------------------------
ENTER OPTION >

The Contract Analysis file program main menu has six (6) options:
options 2, 4, 5, and 6, INPUT, REPORT, UPDATE, and RATETABLE, which are privileged options and require a security clearance, and options 1 and 3, RETRIEVE and BOOK PART, which have open access. All of these options are discussed in the following sections.

2.5 FINANCIAL ANALYSIS RECORD DESCRIPTION

The following field names are available for retrieving analysis records:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) DATE</td>
<td>DATE RECORD WAS LAST MODIFIED - MON, MAR 07 1983</td>
</tr>
<tr>
<td>2) STATUS</td>
<td>STATUS OF RECORD - &quot;AUT&quot; FOR AUTHORIZED &quot;FUT&quot; FOR FUTURE</td>
</tr>
<tr>
<td>3) NOJOS</td>
<td>NUMBER OF JOB ORDERS FOR THIS RECORD</td>
</tr>
<tr>
<td>4) RNTM</td>
<td>NUMBER OF MONTHS FOR THIS RECORD</td>
</tr>
<tr>
<td>5) SYSNUM</td>
<td>SYSTEM ITEM NUMBER FOR THIS RECORD</td>
</tr>
<tr>
<td>6) TITLE</td>
<td>TITLE FOR THIS RECORD (PARTIAL SEARCH FIELD)</td>
</tr>
<tr>
<td>7) MOD</td>
<td>CONTRACT MOD NUMBERS - 4 ENTRIES (PARTIAL SEARCH FIELD)</td>
</tr>
<tr>
<td>8) CNT</td>
<td>CONTRACTOR FOR THIS RECORD</td>
</tr>
<tr>
<td>9) REMARKS</td>
<td>REMARKS FOR THIS RECORD (PARTIAL SEARCH FIELD)</td>
</tr>
<tr>
<td>10) NR</td>
<td>NASA RESPONSIBLE ENGINEER FOR THIS RECORD</td>
</tr>
<tr>
<td>11) CR</td>
<td>CONTRACTOR RESPONSIBLE ENGINEER FOR THIS RECORD</td>
</tr>
<tr>
<td>12) RBK</td>
<td>REQUIREMENT BECOMES KNOWN</td>
</tr>
<tr>
<td>13) PR</td>
<td>PURCHASE REQUEST FOR THIS RECORD</td>
</tr>
<tr>
<td>14) CONT</td>
<td>CONTRACT FOR THIS RECORD EXAMPLE : NAS1-16200</td>
</tr>
<tr>
<td>15) TASK</td>
<td>TASK - SINGLE ALPHABETIC CHARACTER (A-Z)</td>
</tr>
<tr>
<td>16) TASKAS</td>
<td>TASK ASSIGNMENT - 1ST 3 DIGITS OF SUBTASK</td>
</tr>
<tr>
<td>17) TASKSB</td>
<td>TASK SUB - 2 DIGIT DECIMAL PART OF SUBTASK</td>
</tr>
<tr>
<td>18) WAN</td>
<td>WA NUMBER - MAXIMUM OF 4 DIGITS - EXAMPLE : 3008</td>
</tr>
<tr>
<td>19) WACODE</td>
<td>WA CODE - MAXIMUM OF 4 CHARACTERS - EXAMPLE : HAND</td>
</tr>
<tr>
<td>20) COMPLETE</td>
<td>COMPLETED TASK (YES OR NO)</td>
</tr>
<tr>
<td>21) EACHRS</td>
<td>HOURS FOR ESTIMATES-AT-COMPLETION</td>
</tr>
<tr>
<td>22) EACBOM</td>
<td>ODC-MATERIAL ESTIMATES-AT-COMPLETION DOLLARS</td>
</tr>
</tbody>
</table>

The descriptions for these fields are listed below.

1) DATE : DATE RECORD WAS LAST MODIFIED - MON, MAR 07 1983
2) STATUS : STATUS OF RECORD - "AUT" FOR AUTHORIZED "FUT" FOR FUTURE
3) NOJOS : NUMBER OF JOB ORDERS FOR THIS RECORD
4) RNTM : NUMBER OF MONTHS FOR THIS RECORD
5) SYSNUM : SYSTEM ITEM NUMBER FOR THIS RECORD
6) TITLE : TITLE FOR THIS RECORD (PARTIAL SEARCH FIELD)
7) MOD : CONTRACT MOD NUMBERS - 4 ENTRIES (PARTIAL SEARCH FIELD)
8) CNT : CONTRACTOR FOR THIS RECORD
9) REMARKS : REMARKS FOR THIS RECORD (PARTIAL SEARCH FIELD)
10) NR : NASA RESPONSIBLE ENGINEER FOR THIS RECORD
11) CR : CONTRACTOR RESPONSIBLE ENGINEER FOR THIS RECORD
12) RBK : REQUIREMENT BECOMES KNOWN
13) PR : PURCHASE REQUEST FOR THIS RECORD
14) CONT : CONTRACT FOR THIS RECORD EXAMPLE : NAS1-16200
15) TASK : TASK - SINGLE ALPHABETIC CHARACTER (A-Z)
16) TASKAS : TASK ASSIGNMENT - 1ST 3 DIGITS OF SUBTASK
17) TASKSB : TASK SUB - 2 DIGIT DECIMAL PART OF SUBTASK
18) WAN : WA NUMBER - MAXIMUM OF 4 DIGITS - EXAMPLE : 3008
19) WACODE : WA CODE - MAXIMUM OF 4 CHARACTERS - EXAMPLE : HAND
20) COMPLETE : COMPLETED TASK (YES OR NO)
21) EACHRS : HOURS FOR ESTIMATES-AT-COMPLETION
22) EACBOM : ODC-MATERIAL ESTIMATES-AT-COMPLETION DOLLARS
23) ACTBOM : ******* FIELD IS NO LONGER IN USE *******
24) TABLE : JOB ORDER TABLE "SUST" FOR SUSTAINING "MANL" FOR MANUAL
25) TOTHRS : TOTAL AUTHORIZED HOURS
26) TOTDOL : TOTAL AUTHORIZED DOLLARS

It should be noted that most users will find the following field searches to result in the most productive retrievals:

   6) TITLE   7) MOD   9) REMARKS  10) NR   11) CR
   12) RBK    15) TASK   16) TASKAS  17) TASKSB  18) WAN
   19) WACODE  20) COMPLETE  24) TABLE

2.6  INPUT OPERATIONS

The Contract Analysis file uses FORTRAN input forms in its Input mode of operation. All data field entries must be placed between exclamation points, one line (or one field) at a time. For example,

   #3) AUTHOR
       !

When all the data has been entered for a record header, the job orders and the hours and dollars data must then be built. The Input option is discussed in further detail in section 5.0 of this document.

2.7  UPDATE OPERATIONS

The FORTRAN update forms are generated similarly to the FORTRAN input forms. Data is entered between exclamation points, one line (or one field) at a time. For further details, see sections 4.1 and 8.0 of this document.

2.8  SYSTEM EXIT / LOGOUT

System logout is always accomplished with the zero option on every menu throughout the SPADS system as demonstrated in the Contract Analysis
menu below. Note that the user will always be given an opportunity to logout prior to returning to the SPADS main menu. See the example below:

WELCOME TO THE SCOUT PROJECT OFFICE CONTRACTS ANALYSIS SYSTEM
**********************************************************************
(0) LOGOUT
(1) NAS1-9258 (7) NAS1-14200 (22) NAS1-MISCELLANEOUS
(2) NAS1-10000 (8) NAS1-15000 (33) DISPLAY SPOOL QUEUE
(3) NAS1-11000 (9) NAS1-15100 (44) DISPLAY USERS ON SYSTEM
(4) NAS1-11400 (10) NAS1-16200 (55) DISPLAY PHANTOMS & JOBS
(5) NAS1-12500 (11) NAS1-18100 (66) SEND MESSAGE TO USER
(6) NAS1-13100 (12) NAS1-18200 (77) ANSWER MESSAGE FROM USER
(99) RETURN TO SPADS MAIN MENU

ENTER OPTION > 0

XXX (N) LOGGED OUT MMDDYY HR:MN:SC
Where XXX, N, MM, DD, YY, HR, MN, and SC are the same as in Section 2.1.

The zero (0) option on the SPADS main menu (section 2.1) displays a logout menu rather than performing a system logout. This menu appears as follows:

The following is a list of LOGOUT Options
=================================================
(0) Return to SPADS Menu
(1) Logout Current Terminal
(2) Logout Other Terminals with same User ID

Enter Option Number >

Option 0 returns the user to the SPADS main menu. Option 1 performs a system logout on the terminal at which the user is currently logged in. Option 2 performs a system logout on all other terminals at which the user is logged in with the same User ID. This option is very useful in cases...
such as a PT65 terminal with a locked keyboard needing to be force logged out. Rather than calling the system administrator, the user may login to another terminal, go to the logout menu and select option 2. A message confirming the logout of another terminal will be displayed, such as: 'User 11 logged out'. If no other terminals are logged in using the same USER ID and option 2 is selected, the user will be returned to the SPADS main menu.
3.0 SPECIAL OPERATIONS

This section will discuss special operating procedures such as spooling and emergency/recovery procedures.

3.1 PRINTOUT SPOOLING

All SPADS programs display a series of questions upon request to get a hard copy of a listing or report by the user. This printing process is called SPOOLING. Note that the system printer located in the Scout Project Computer Room is approximately 25 times faster than any of the letter quality printers, LQPs, on the system. Vought Corporation in Dallas, Texas, also has a system printer which is designated as 'W'. This Printronix line printer is half the speed of the Scout system printer. The LQP's designated to have long computer paper are LQP A (located in room 109B of the Scout Project Office) and LQP B (located in Vought Corp., Dallas, Texas).

All other LQP's are designated as single sheet word processing printers. Due to their slow speed, the LQP's should spool a large printout or a large number of copies only in the case of an emergency.

The user first responds to the type of printer to which the desired output is to be spooled. A zero entry is used to cancel the output desired. The user is then asked to give the number of copies to be printed. The maximum number of copies allowed is five (5). A zero entry again cancels the output desired. See the example of the spooling process below:
SPOOLING MENU

OUTPUT TO:
0) NO OUTPUT
1) SCOUT PROJECT OFFICE / LARC, NASA
2) VOUGHT CORPORATION / DALLAS, TX
3) PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER >

Option number 1 generates the menu for the Scout Office printer options:

OUTPUT TO:
0) START OVER
1) LQP A - COMPUTER PAPER
2) LQP B - SINGLE SHEET
3) LQP G - DUAL SHEET
4) SCOUT SYSTEM PRINTER

ENTER OPTION NUMBER >

Option number 2 generates the menu for the Vought Corp. Dallas office printer options:

OUTPUT TO:
0) START OVER
1) LQP S - SINGLE SHEET
2) LQP T - COMPUTER PAPER
3) DALLAS SYSTEM PRINTER / W

ENTER OPTION NUMBER >

Option number 3 generates the menu for the Projects Directorate printer options:

OUTPUT TO:
0) START OVER
1) LQP C - SINGLE SHEET
2) LQP D - SINGLE SHEET
3) LQP E - SINGLE SHEET
4) LQP F - SINGLE SHEET
5) ETI SYSTEM PRINTER / H

- page 18 -
ENTER OPTION NUMBER >

The Zero (0) option on the Scout printer, the Dallas printer, and the Projects Directorate printer menus will restart the main spool menu.

After the desired printer option has been chosen, a prompt for entering the number of copies appears as follows:

ENTER NUMBER OF COPIES >
(MAX. OF 5)
(0 TO ABORT)

A 'NO OUTPUT SPOOLED' message appears on the terminal screen on either zero (0) entry explained previously.

3.2 EMERGENCY / RECOVERY

The following procedures have been designed to allow the user to recover and continue SPADS operations should an error occur.

3.2.1 SOFTWARE / OPERATOR ERRORS FOR SPADS

If an error occurs and sends the user out of a SPADS program into the PR1ME 750 operating system, the following message will be displayed: 'ERROR: C ALL / SPADS'. The user should then type 'C ALL' and return. This step is very important to the recovery procedure since it closes all open files that the user was using. The user should then type 'SPADS' and enter a return to restart the SPADS main menu.

3.2.2 FILE IN USE

All SPADS programs allow only one user at a time within a data file area. When a user attempts to select a program that another user has
accessed, a 'FILE IN USE' message will be displayed on the screen. The prompt 'ERROR: C ALL / SPADS' will then be displayed.
4.0 RETRIEVE OPTION

When the Retrieve option (option 1) on the Analysis program main menu is selected, the user must enter the field number(s) of the field(s) by which the desired record is to be retrieved. An 'H' may be entered to indicate that the user needs 'HELP' with the field selection and a listing of the field names with their descriptions will be displayed. After entering the appropriate field number the user will then enter the desired value for that field of the retrieval record. Multiple fields may be used for retrieving a record. A carriage return indicates that no more fields will be entered, and the system is to begin searching for the desired record. If the desired record is not found, the user will be returned to the program main menu. If the desired record is found, it will be displayed in three sections: the header, the job order data, and the hours and dollars data.

The user has five options available when the desired record has been displayed: (1) the user may MOD the record; (2) the user may search for the NEXT record having the search criteria; (3) the user may SPOOL the record currently displayed; (4) the user may DELETE the record currently displayed; (5) the user may enter a carriage return to return to the program main menu. The MOD, DELETE, and SPOOL options are discussed further in the following sections.

4.1 MOD OPTION

The MOD option may be performed in two ways: ADD or REPLACE. Both options allow the user to make changes to an analysis record in the same way, but with different results. The REPLACE method allows the user to modify the record currently displayed. The ADD method creates a record identical to that which has been retrieved. The changes made by the user are then
Incorporated into the new record in the data base, and the record which was retrieved keeps its original form. It should be noted that in order to use the ADD method the user must have the proper clearance to input into the Contract Analysis data base.

Changes to an analysis record are made in three sections: header changes, job order changes, and hours and dollars data changes. If the user selects to modify the header, specific field numbers must be entered to indicate which fields are to be changed. If the user enters any letter rather than a field number, the HELP list of field names and descriptions will be displayed at the terminal screen. As each field number is entered, the user will be prompted for the new field values. The modified record's header and job order data will then be displayed and the user may either select to modify the header or the job order data, or enter a carriage return if no more changes to the header or the job orders are desired. If the user chooses to modify the job order data, the following options are available: ADD, CHANGE, DELETE, and AUTO. The ADD option allows the user to add job orders to the record. CHANGE allows the user to change the job order data. DELETE allows the user to delete any or all of the job orders in the record. AUTO allows the user to build a new set of job orders from the sustaining job order table which contains a predefined set of job orders for each task and/or subtask.

4.1.1 SAMPLE MOD/ADD OPTION

The following example illustrates the MOD/ADD option with changes to the header data and the job order data, including the delete and change options.
ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

1) DATE  2) STATUS  3) NOJOS
4) RNTM  5) SYSNUM  6) TITLE
7) MOD   8) CNT    9) REMARKS
10) NR   11) CR     12) RBK
13) PR   14) CONT   15) TASK
16) TASKAS  17) TASKSB  18) WAN
19) WACODE  20) COMPLETE  21) R.T.HRS
22) R.T.BOM  23) ACTBOM  24) TABLE
25) TOTHRS  26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 6

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: SAT, OCT 16 1982 STATUS: AUT J.O.S: 10 MONTHS: 1 SYS ITEM NO: 6
TITLE: PROGRAM MANAGEMENT (SPAC)
MOD: , , , CONTRACTOR: VOUGHT
REMARK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
REB:
PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AE COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: 0 TOTAL AUT DOLLARS: 0 FEE: 7.190%

MORE ? > ** return ** Note: the default value for a carriage return
is 'Y' for YES.

E6000A  49002026600000400 0.000 11.063 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E7000A  49002027700000400 0.000 30.583 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E6186A  49004080600000483 0.000 4.431 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E6188A  49004160600000700 0.000 2.683 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E6189A  49002020600000400 0.000 7.211 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E6191A  49002021600000400 0.000 6.876 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E7193A  49002023700000400 0.000 14.537 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E7194A  49002025700000400 0.000 6.767 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E7196A  49002021700000400 0.000 9.578 0.000 0.000 0.000
        0.000 0.000 0.000 0.000
E7198A  49004172700000483 0.000 6.271 0.000 0.000 0.000
        0.000 0.000 0.000 0.000

- page 23 -
MORE ? > ** return **

<table>
<thead>
<tr>
<th>CUM EAC SPREAD</th>
<th>CUM ACTUALS</th>
<th>COMPLETION (EAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>TOTAL</td>
<td>TOTAL</td>
</tr>
<tr>
<td>MMM YR CMAA</td>
<td>HOURS DOLLARS</td>
<td>HOURS DOLLARS</td>
</tr>
<tr>
<td>OCT 76</td>
<td>0</td>
<td>67500</td>
</tr>
</tbody>
</table>

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE \(\text{(RETURN IF FINISHED)} > 1\)

(1) ADD, (2) REPLACE \(\text{(RETURN IF FINISHED)} > 1\)

(1) HEADER \(\text{(RETURN)} > 1\)

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

<table>
<thead>
<tr>
<th>Field #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DATE</td>
</tr>
<tr>
<td>2</td>
<td>STATUS</td>
</tr>
<tr>
<td>3</td>
<td>NOJOS</td>
</tr>
<tr>
<td>4</td>
<td>RNTM</td>
</tr>
<tr>
<td>5</td>
<td>SYSNUM</td>
</tr>
<tr>
<td>6</td>
<td>TITLE</td>
</tr>
<tr>
<td>7</td>
<td>MOD</td>
</tr>
<tr>
<td>8</td>
<td>CNT</td>
</tr>
<tr>
<td>9</td>
<td>REMARKS</td>
</tr>
<tr>
<td>10</td>
<td>NR</td>
</tr>
<tr>
<td>11</td>
<td>CR</td>
</tr>
<tr>
<td>12</td>
<td>RBK</td>
</tr>
<tr>
<td>13</td>
<td>PR</td>
</tr>
<tr>
<td>14</td>
<td>CONT</td>
</tr>
<tr>
<td>15</td>
<td>TASK</td>
</tr>
<tr>
<td>16</td>
<td>TASKAS</td>
</tr>
<tr>
<td>17</td>
<td>TASKSB</td>
</tr>
<tr>
<td>18</td>
<td>WAN</td>
</tr>
<tr>
<td>19</td>
<td>WACODE</td>
</tr>
<tr>
<td>20</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>21</td>
<td>R.T.HRS</td>
</tr>
<tr>
<td>22</td>
<td>R.T.BOM</td>
</tr>
<tr>
<td>23</td>
<td>ACTBOM</td>
</tr>
<tr>
<td>24</td>
<td>TABLE</td>
</tr>
<tr>
<td>25</td>
<td>TOTHRS</td>
</tr>
<tr>
<td>26</td>
<td>TOTDOL</td>
</tr>
</tbody>
</table>

ENTER FIELD # OR (H) HELP \(\text{(RETURN IF NO MORE)} > 15\)

ENTER VALUE > Z

ENTER FIELD # OR (H) HELP \(\text{(RETURN IF NO MORE)} > \text{TITLE}\) Note that the HELP list of fields and descriptions was invoked by entering a name in place of a #.

THE FOLLOWING ARE HEADER FIELDS AND THEIR DESCRIPTIONS:

<table>
<thead>
<tr>
<th>Field #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DATE</td>
</tr>
<tr>
<td>2</td>
<td>STATUS</td>
</tr>
<tr>
<td>3</td>
<td>NOJOS</td>
</tr>
<tr>
<td>4</td>
<td>RNTM</td>
</tr>
<tr>
<td>5</td>
<td>SYSNUM</td>
</tr>
<tr>
<td>6</td>
<td>TITLE</td>
</tr>
<tr>
<td>7</td>
<td>MOD</td>
</tr>
<tr>
<td>8</td>
<td>CNT</td>
</tr>
<tr>
<td>9</td>
<td>REMARKS</td>
</tr>
<tr>
<td>10</td>
<td>NR</td>
</tr>
<tr>
<td>11</td>
<td>CR</td>
</tr>
<tr>
<td>12</td>
<td>RBK</td>
</tr>
<tr>
<td>13</td>
<td>PR</td>
</tr>
<tr>
<td>14</td>
<td>CONT</td>
</tr>
</tbody>
</table>

- page 24 -
15) TASK : TASK - SINGLE ALPHABETIC CHARACTER (A-Z)
16) TASKAS : TASK ASSIGNMENT - 1ST 3 DIGITS OF SUBTASK
17) TASKSB : TASK SUB - 2 DIGIT DECIMAL PART OF SUBTASK
18) WA : WA NUMBER - MAXIMUM OF 4 DIGITS - EXAMPLE : 3008
19) WA/CODE : WA CODE - MAXIMUM OF 4 CHARACTERS - EXAMPLE : HAND

MORE? > NO

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 6

INPUT TITLE (UP TO 72 CHARACTERS)
TEST ENTRY FOR SAMPLE MOD / ADD

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS:1 SY S ITEM NO: 6
TITLE: TEST ENTRY FOR SAMPLE MOD / ADD
MOD: , , , CONTRACTOR: Vought
REMARK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AE COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

E6000A 49002026600000400 0.000 11.063 0.000 0.000 0.000 0.000
E7000A 49002027700000400 0.000 30.583 0.000 0.000 0.000 0.000
E6186A 49004080600000483 0.000 4.431 0.000 0.000 0.000 0.000
E6188A 49004160600000700 0.000 2.683 0.000 0.000 0.000 0.000
E6189A 49002020600000400 0.000 7.211 0.000 0.000 0.000 0.000
E6191A 49002021600000400 0.000 6.876 0.000 0.000 0.000 0.000
E7193A 49002023700000400 0.000 14.537 0.000 0.000 0.000 0.000
E7194A 49002025700000400 0.000 6.767 0.000 0.000 0.000 0.000
E7196A 49002021700000400 0.000 9.578 0.000 0.000 0.000 0.000
E7198A 49004172700000483 0.000 6.271 0.000 0.000 0.000 0.000

(1) HEADER (2) JOBORDER (RETURN) > 2
(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 2
DELETE ALL OR PART (RETURN IF FINISHED) > PART

- page 25 -
ENTER JOB ORDER TO BE DELETED
RETURN IF FINISHED

ANNNNA
E7149A

JO: E7149A NOT FOUND. ** Note the error message. **

ENTER JOB ORDER TO BE DELETED
RETURN IF FINISHED

ANNNNA
E7194A

ENTER JOB ORDER TO BE DELETED
RETURN IF FINISHED

ANNNNA
E7196A

ENTER JOB ORDER TO BE DELETED
RETURN IF FINISHED

ANNNNA
** return **

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 3

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
=================================================================
1) JO  2) JOSUB  3) PROGNO
4) %ALL  5) %FY1  6) %FY2
7) %FY3  8) %FY4  9) %FY5
10) %FY6  11) %FY7  12) %FY8

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 1

=================================================================
THE FOLLOWING ARE JOBORDER FIELDS AND THEIR DESCRIPTIONS:
=================================================================
1) JO : JOB ORDER FIELD - EXAMPLE : E8212A
2) JOSUB : SUB JOB ORDER - MAXIMUM LENGTH OF TWO CHARACTERS
3) PROGNO : PROGRAM NUMBER - EXAMPLE - 49002024400000400
4) %ALL : ALL FISCAL YEARS PERCENT - 3 DECIMAL PLACES
5) %FY1 : 1ST FISCAL YEAR PERCENT - 3 DECIMAL PLACES
6) %FY2 : 2ND FISCAL YEAR PERCENT - 3 DECIMAL PLACES
7) %FY3 : 3RD FISCAL YEAR PERCENT - 3 DECIMAL PLACES
8) %FY4 : 4TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
9) %FY5 : 5TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
10) %FY6 : 6TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
11) %FY7 : 7TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES
12) %FY8 : 8TH FISCAL YEAR PERCENT - 3 DECIMAL PLACES

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 1

- page 26 -
ENTER JO VALUE AS:
ANNNNA
E7200A

WHICH JOB ORDER IS TO BE CHANGED
ANNNNA
E7200A

JO: E7200A NOT FOUND. ** Note the error message. **

WHICH JOB ORDER IS TO BE CHANGED
ANNNNA
E7198A

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 6
TITLE: TEST ENTRY FOR SAMPLE MOD / ADD
MOD: , , , CONTRACTOR: VOUGHT
REMRK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AE COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
<th>R.T. HRS</th>
<th>R.T. DOLLARS</th>
<th>TOTAL AUT HOURS</th>
<th>TOTAL AUT DOLLARS</th>
<th>FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6000A</td>
<td>49002026600000400</td>
<td>0.000</td>
<td>11.063</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7000A</td>
<td>49002027700000400</td>
<td>0.000</td>
<td>30.583</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6186A</td>
<td>49004080600000483</td>
<td>0.000</td>
<td>4.431</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6188A</td>
<td>49004160600000700</td>
<td>0.000</td>
<td>2.683</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6189A</td>
<td>49002020600000400</td>
<td>0.000</td>
<td>7.211</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6191A</td>
<td>49002021600000400</td>
<td>0.000</td>
<td>6.876</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7193A</td>
<td>49002023700000400</td>
<td>0.000</td>
<td>14.537</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7200A</td>
<td>49004172700000483</td>
<td>0.000</td>
<td>6.271</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

(1) HEADER (2) JOBORDER (RETURN) > 2
(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 3

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
==========================================::=====================::
1) JO 2) JOSUB 3) PROGNO
4) %ALL 5) %FY1 6) %FY2
7) %FY3 8) %FY4 9) %FY5

- page 27 -
ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 6

WHICH JOB ORDER IS TO BE CHANGED
ANNNIN A
E7200A

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 6
TITLE: TEST ENTRY FOR SAMPLE MOD / ADD
MOD: , , , CONTRACTOR: VOUGHT
REMARK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AE COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

E6000A 490020266000000400 0.000 11.063 0.000 0.000 0.000 0.000
E7000A 490020277000000400 0.000 30.583 0.000 0.000 0.000 0.000
E6186A 490040806000000483 0.000 4.431 0.000 0.000 0.000 0.000
E6188A 490041606000000700 0.000 2.683 0.000 0.000 0.000 0.000
E6189A 490020206000000400 0.000 7.211 0.000 0.000 0.000 0.000
E6191A 490020216000000400 0.000 6.876 0.000 0.000 0.000 0.000
E7193A 490020237000000400 0.000 14.537 0.000 0.000 0.000 0.000
E7200A 49004172700000483 0.000 6.271 100.000 0.000 0.000 0.000

(1) HEADER (2) JOBORDER (RETURN) > ** return **

DATA CHANGE DESIRED (Y OR N) > N

ITEM ADDED TO DATA BASE Note: a copy of the retrieval record with modifications has been added to the data base. The original record has not been changed.

SYSTEM ITEM NUMBER = 615
4.1.2 SAMPLE MOD / ADD OPTION WITH JOB ORDER CHANGES

When the AUTO option for changing job order data is invoked, the system refers to the sustaining table for the job orders and fiscal year percents corresponding to the task and subtask (if applicable) of the retrieved record. The system then refers to the program number table and searches for the job orders found in the sustaining table to retrieve the corresponding program numbers. As each job order and its program number is found in the program number table a message stating so will be displayed at the terminal screen. If a job order from the sustaining table is not located in the program number table, the system will prompt the user for the program number corresponding to that job order. The job order and the manually input program number will then be automatically entered into the program number table.

When the ADD option is invoked, the user may enter job orders one at a time. As each job order and job order subcode (if desired) is entered, the system refers to the program number table to retrieve the corresponding program number. If the job order is not found in the program number table, the user must enter the program number manually. It should be noted that if the user has entered an incorrect job order, no error messages will be displayed, since the system will create a new job order and enter it and the manually input program number into the program number table. If needed, the user may delete the job order from the record by using the DELETE option. The incorrect job order may be deleted from the program number table by using the edit table option under the update option, which is discussed in section 8.0. Refer to the following example for an illustration of the MOD / ADD option with changes to the job order data using the DELETE, AUTO, and ADD options.

- page 29 -
ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
 ==============================================================
 1) DATE          2) STATUS          3) NOJOS          4) RNTM
 5) SYSNUM        6) TITLE          7) MOD          8) CNT
 9) REMARKS       10) NR            11) CR            12) RBK
 13) PR           14) CONT          15) TASK          16) TASKAS
 17) TASKSB       18) WAN           19) WACODE       20) COMPLETE
 21) R.T.HRS      22) R.T.BOM       23) ACTBOM       24) TABLE
 25) TOTHRS       26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 3

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 3
TITLE: PROGRAM MANAGEMENT
MOD: , , , CONTRACTOR: Vought
REMRK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AB COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

MORE ? > N

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE (RETURN IF FINISHED) > 1

(1) ADD, (2) REPLACE (RETURN IF FINISHED) > 1

(1) HEADER (2) JCBORDER (RETURN) > 2

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 2

DELETE ALL OR PART (RETURN IF FINISHED) > ALL

JOB ORDER(S) DELETED

(1) ADD, (2) DELETE, (3) CHANGE, (4) AUTO (RETURN IF FINISHED) > 4

JOB ORDER E6000A FOUND.
JOB ORDER E7000A FOUND.
JOB ORDER E6186A FOUND.
JOB ORDER E6188A FOUND.
JOB ORDER E6189A FOUND.

- page 30 -
DATE: SAT, OCT 16 1982 STATUS:AUT J.O.S:10 MONTHS: 1 SYS ITEM NO: 3

TITLE: PROGRAM MANAGEMENT

CONTRACT/PURCHASE ORDER: NAS1-12500 TASK:A SUBTASK: 

TOTAL AUT HOURS: 0 R.T. DOLLARS: 0

E6000A 49002026600000400 0.000 11.063 0.000 0.000 0.000
E7000A 49002027700000400 0.000 30.583 0.000 0.000 0.000
E6186A 49004080600000483 0.000 4.431 0.000 0.000 0.000
E6188A 49004160600000700 0.000 2.683 0.000 0.000 0.000
E6189A 49002020600000400 0.000 7.211 0.000 0.000 0.000
E6191A 49002021600000400 0.000 6.876 0.000 0.000 0.000
E7193A 49002023700000400 0.000 14.537 0.000 0.000 0.000
E7194A 49002025700000400 0.000 6.767 0.000 0.000 0.000
E7196A 49002021700000400 0.000 9.578 0.000 0.000 0.000
E7198A 49004172700000483 0.000 6.271 0.000 0.000 0.000
DATE: SAT, OCT 16 1982 STATUS: AUT J.O.S: 11 MONTHS: 1
SYS ITEM NO: 3

TITLE: PROGRAM MANAGEMENT
CONTRACTOR: VOUGHT

REMARK: NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:

RBK: PURCHASE REQUEST: CONTRACT/PURCHASE ORDER: NAS1-12500
TASK: A SUBTASK:
WORK AUTHORITY: 3381 WA CODE: AB COMPLETED TASK: YES TABLE: SUST

R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Task Code</th>
<th>Subtask Code</th>
<th>Task Hours</th>
<th>Aut Hrs</th>
<th>Aut Dollars</th>
<th>Task Hours</th>
<th>Aut Hrs</th>
<th>Aut Dollars</th>
<th>Task Hours</th>
<th>Aut Hrs</th>
<th>Aut Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>E6000A</td>
<td>49002026600000400</td>
<td>0.000</td>
<td>11.063</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7000A</td>
<td>49002027700000400</td>
<td>0.000</td>
<td>30.583</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6186A</td>
<td>49004080600000483</td>
<td>0.000</td>
<td>4.431</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6188A</td>
<td>49004160600000700</td>
<td>0.000</td>
<td>2.683</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6189A</td>
<td>49002020600000400</td>
<td>0.000</td>
<td>7.211</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6191A</td>
<td>49002021600000400</td>
<td>0.000</td>
<td>6.876</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7193A</td>
<td>49002023700000400</td>
<td>0.000</td>
<td>14.537</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7194A</td>
<td>49002025700000400</td>
<td>0.000</td>
<td>6.767</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7196A</td>
<td>49002021700000400</td>
<td>0.000</td>
<td>9.578</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7198A</td>
<td>49004172700000483</td>
<td>0.000</td>
<td>6.271</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7199A X</td>
<td>49001024408000400</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>100.000</td>
<td>100.000</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
</tbody>
</table>

(1) HEADER (2) JOBORDER (RETURN) > ** return **

DATA CHANGE DESIRED (Y OR N) > N

ITEM ADDED TO DATA BASE

SYSTEM ITEM NUMBER = 615
4.1.3 HOURS AND DOLLARS DATA CHANGES

When the user enters a carriage return at the prompt: '(1) HEADER (2) JOBORDER (RETURN) >', the following will be displayed: 'DATA CHANGE DESIRED (Y OR N) >'. If the user enters a 'Y', four options will be available for changing the hours and dollars data: RATETABLE, SPREAD, MANUAL, or DELETE.

The RATETABLE option does a spread of hours and dollars computed from the total engineering hours and the M/OOC dollars (Material charges and Other Direct Charges) for the task of the retrieved record. The user must enter the total engineering hours, the M/OOC dollars, and the appropriate fiscal year. The total dollars and hours to be spread will be computed from the internal ratetable and will then be displayed at the terminal screen. The user must then enter the beginning month, beginning hours, and the beginning dollars for the spread. The user will be prompted for the last month and then the total dollars and hours computed by the system will be spread over the interval of months entered by the user. The user will then choose the type of spread that is to be performed, which is discussed in the following paragraph. It should be noted that if the task of the retrieved record is J, M, or R, running a ratetable spread on that record will automatically invoke the SPREAD option, as no computation will be performed.

In the SPREAD option, the user is prompted for the beginning month, hours, and dollars, and then for the last month, hours, and dollars. These hours and dollars may be spread normally, which is an even percentage distribution for all values over the interval of months, or abnormally, which allows the user to have a weighted distribution as desired for the first or second half of the interval of months. Note that the spread rounds off the given values for the most efficient proportioning of hours and dollars.
However, if an exact number of hours or dollars is needed on the last month, that month may be changed using the MANUAL option.

The MANUAL option allows the user to add, change, or delete a single month entry in the hours and dollars data for a retrieved record.

The DELETE option deletes all months, hours, and dollars for a retrieved record. The user will be asked to verify that deleting the monthly data is the correct option desired. A message will then be displayed indicating that the data has been deleted, and the user will be returned to the prompt for RATETABLE, SPREAD, MANUAL, or DELETE. This is not a recommended procedure.

The following example illustrates the MOD / REPLACE option with changes to the hours and dollars data and shows the SPREAD, MANUAL, and DELETE options. An abnormal spread is performed, and the last month of the data is manually changed to show the desired number of total hours. For security reasons there will be no example of the RATETABLE option.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
===================================================================================================
  1) DATE  2) STATUS  3) NOJOS  4) RNTM  5) SYSNUM  6) TITLE  7) MOD  8) CNT  9) REMARKS
 10) NR   11) CR    12) RBK  13) PR   14) CONT  15) TASK  16) TASKAS 17) TASKSB 18) WAN
 19) WACODE 20) COMPLETE 21) R.T.HRS 22) R.T.BOM 23) ACTBOM 24) TABLE 25) TOTHRS 26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 615

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **
DATE: WED, JUN 27 1984 STATUS: AUT J.O.S: 8 MONTHS: 1 SYS ITEM NO: 615
TITLE: TEST ENTRY FOR SAMPLE MOD / ADD
MOD: , , CONTRACTOR: VOUGHT
REMARK:
NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
WORK AUTHORITY: 3381 WA CODE: AE COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%
MORE ? > ** return **

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E6000A</td>
<td>49002026600000400</td>
<td>0.000</td>
<td>11.063</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7000A</td>
<td>49002027700000400</td>
<td>0.000</td>
<td>30.583</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6186A</td>
<td>49004080600000483</td>
<td>0.000</td>
<td>4.431</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6188A</td>
<td>49004160600000700</td>
<td>0.000</td>
<td>2.683</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6189A</td>
<td>49002020600000400</td>
<td>0.000</td>
<td>7.211</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E6191A</td>
<td>49002021600000400</td>
<td>0.000</td>
<td>6.876</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7193A</td>
<td>49002023700000400</td>
<td>0.000</td>
<td>14.537</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7200A</td>
<td>49004172700000483</td>
<td>0.000</td>
<td>6.271</td>
<td>100.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

MORE ? > ** return **

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CUM EAC SPREAD</td>
<td>CUM ACTUALS</td>
<td>COMPLETION(EAC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>TOTAL</td>
<td>TOTAL</td>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOURS</td>
<td>DOLLARS</td>
<td>HOURS</td>
<td>DOLLARS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MMM YR QMMA</th>
<th>HOURS</th>
<th>DOLLARS</th>
<th>HOURS</th>
<th>DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCT 76</td>
<td>0</td>
<td>67500</td>
<td>0</td>
<td>67426</td>
</tr>
</tbody>
</table>

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 1
(1) ADD, (2) REPLACE (RETURN IF FINISHED) > 2
(1) HEADER (2) JOBORDER (RETURN) > ** return **
DATA CHANGE DESIRED (Y OR N) > Y
(1) RATETABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 4
OK TO DELETE MONTHLY DATA (Y OR N) > Y
DATA DELETED
(1) RATETABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 2

- page 35 -
ENTER MONTH AND YEAR FOR FIRST MONTH.

MMYY

AUG 75

ENTER EAC SPREAD HOURS FOR FIRST MONTH.

NNNNNNNNNN

10

ENTER EAC SPREAD DOLLARS FOR FIRST MONTH.

NNNNNNNNNN

1000

ENTER MONTH AND YEAR FOR LAST MONTH.

MMYY

DEC 76

ENTER EAC SPREAD HOURS FOR LAST MONTH.

NNNNNNNNNN

100

ENTER EAC SPREAD DOLLARS FOR LAST MONTH.

NNNNNNNNNN

77000

NORMAL SPREAD (Y - N) > N

ENTER THE 1ST HALF PERCENT FOR THE HOURS > 25

ENTER THE 1ST HALF PERCENT FOR THE DOLLARS > 20

<table>
<thead>
<tr>
<th>Month</th>
<th>Hours</th>
<th>Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUG 75</td>
<td>10</td>
<td>1000</td>
</tr>
<tr>
<td>SEP 75</td>
<td>13</td>
<td>2900</td>
</tr>
<tr>
<td>OCT 75</td>
<td>16</td>
<td>4800</td>
</tr>
<tr>
<td>NOV 75</td>
<td>19</td>
<td>6700</td>
</tr>
<tr>
<td>DEC 75</td>
<td>22</td>
<td>8600</td>
</tr>
<tr>
<td>JAN 76</td>
<td>25</td>
<td>10500</td>
</tr>
<tr>
<td>FEB 76</td>
<td>28</td>
<td>12400</td>
</tr>
<tr>
<td>MAR 76</td>
<td>31</td>
<td>14300</td>
</tr>
<tr>
<td>APR 76</td>
<td>34</td>
<td>16200</td>
</tr>
<tr>
<td>MAY 76</td>
<td>42</td>
<td>23800</td>
</tr>
<tr>
<td>JUN 76</td>
<td>50</td>
<td>31400</td>
</tr>
<tr>
<td>JUL 76</td>
<td>58</td>
<td>39000</td>
</tr>
<tr>
<td>AUG 76</td>
<td>66</td>
<td>46600</td>
</tr>
<tr>
<td>SEP 76</td>
<td>74</td>
<td>54200</td>
</tr>
<tr>
<td>OCT 76</td>
<td>82</td>
<td>61800</td>
</tr>
<tr>
<td>NOV 76</td>
<td>90</td>
<td>69400</td>
</tr>
<tr>
<td>DEC 76</td>
<td>98</td>
<td>77000</td>
</tr>
</tbody>
</table>

MORE MODIFICATIONS (Y OR N) > Y

(1) RATE TABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 3

ENTER DATA VALUES. RETURN IF NO MORE
TO DELETE MAKE CMAA EQUAL TO ****.
<table>
<thead>
<tr>
<th>MMM-YY-CMAA-</th>
<th>CUM EAC SPREAD</th>
<th>CUM ACTUALS</th>
<th>EAC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>return</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**return**

- AUG 75 10 1000 0 0 0 0 0 0
- SEP 75 13 2900 0 0 0 0 0 0
- OCT 75 16 4800 0 0 0 0 0 0
- NOV 75 19 6700 0 0 0 0 0 0
- DEC 75 22 8600 0 0 0 0 0 0
- JAN 76 25 10500 0 0 0 0 0 0
- FEB 76 28 12400 0 0 0 0 0 0
- MAR 76 31 14300 0 0 0 0 0 0
- APR 76 34 16200 0 0 0 0 0 0
- MAY 76 42 23800 0 0 0 0 0 0
- JUN 76 50 31400 0 0 0 0 0 0
- JUL 76 58 39000 0 0 0 0 0 0
- AUG 76 66 46600 0 0 0 0 0 0
- SEP 76 74 54200 0 0 0 0 0 0
- OCT 76 82 61800 0 0 0 0 0 0
- NOV 76 90 69400 0 0 0 0 0 0
- DEC 76 100 77000 0 0 0 0 0 0

**MORE MODIFICATIONS (Y OR N) > N**

**4.2 DELETE OPTION**

It should be noted that the user must have special clearance in order to perform a record deletion in the Contract Analysis data base. If the user attempts to delete a record and is not cleared, the following will be displayed: 'SORRY, YOU ARE NOT VALIDATED TO PERFORM THIS FUNCTION'. If the user is cleared for deletion and enters the delete option, the user will be asked to verify that deleting this record from the data base is the correct option desired. The record will then be deleted, and a message verifying
that it has been deleted will be displayed. The user will then be returned to the program main menu. It should be noted that after a record has been deleted, it is a standard procedure for the data file to be resorted and for the balance sheet update to be run. Both of these operations are discussed under the update option in section 8.0 of this document. The following example illustrates the record delete option.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
=====================================================================
  1) DATE       2) STATUS       3) NOJOS
  4) RNTM       5) SYSNUM       6) TITLE
  7) MOD        8) CNT          9) REMARKS
10) NR         11) CR          12) RBK
13) PR         14) CONT        15) TASK
16) TASKAS     17) TASKSB      18) WAN
19) WACODE     20) COMPLETE    21) R.T.HRS
22) R.T.BOM    23) ACTBOM      24) TABLE
25) TOTHRS     26) TOTDOL

ENTER FIELD # OR (H) HELP  (RETURN IF NO MORE) > 5

ENTER VALUE > 615

ENTER FIELD # OR (H) HELP  (RETURN IF NO MORE) > ** return **

DATE: WED, JUN 27 1984 STATUS:AUT  J.O.S: 8 MONTHS:17 SYS ITEM NO: 615
TITLE:TEST ENTRY FOR SAMPLE MOD / ADD
MOD: , , ,               CONTRACTOR:VOUGHT
REMRK:
NASA RESPONSIBLE ENGR:      KTR RESPONSIBLE ENGR:
RBK:                      PURCHASE REQUEST:
WORK AUTHORITY:3381 WA CODE:AE COMPLETED TASK:YES TABLE:SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 0.000%

MORE ? > N

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE ((RETURN IF FINISHED) > 4

OK TO DELETE THIS RECORD (Y OR N) > Y

RECORD 615 DELETED FROM DATA BASE

- page 38 -
4.3 SPOOL OPTION

The following is an example of the terminal actions performed in retrieving and spooling an analysis record.

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
=================================================================
1) DATE  2) STATUS  3) NOJOS  
4) RNTM  5) SYSNUM  6) TITLE  
7) MOD  8) CNT  9) REMARKS  
10) NR  11) CR  12) RBK  
13) PR  14) CONT  15) TASK  
16) TASKAS  17) TASKSB  18) WAN  
19) WACODE  20) COMPLETE  21) R.T.HRS  
22) R.T.BOM  23) ACTBOM  24) TABLE  
25) TOTHS  26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 5

ENTER VALUE > 3

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

DATE: FRI, JUN 29 1984 STATUS: AUT J.O.S: 10 MONTHS: 1 SYS ITEM NO: 3
TITLE: PROGRAM MANAGEMENT
MOD: , , , CONTRACTOR: VOUGHT
REMARK: NASA RESPONSIBLE ENGR: KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
WORK AUTHORITY: 3381 WA CODE: AB COMPLETED TASK: YES TABLE: SUST
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: TOTAL AUT DOLLARS: FEE: 7.190%

MORE ? > ** return **

E6000A 49002026600000400 0.000 11.063 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E7000A 49002027700000400 0.000 30.583 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E6186A 49004080600000483 0.000 4.431 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E6188A 49004160600000700 0.000 2.683 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E6189A 49002020600000400 0.000 7.211 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E6191A 49002021600000400 0.000 6.876 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000
E7193A 49002023700000400 0.000 14.537 0.000 0.000 0.000 0.000
                      0.000 0.000 0.000 0.000 0.000 0.000

- page 39 -
MORE ? > ** return **

| E7194A  | 49002025700000400 | 0.000 | 0.000 | 0.000 | 0.000 |
| E7196A  | 49002021700000400 | 0.000 | 0.000 | 0.000 | 0.000 |
| E7198A  | 49004172700000483 | 0.000 | 0.000 | 0.000 | 0.000 |

CUM EAC SPREAD       CUM ACTUALS       COMPLETION(EAC)
TOTAL   TOTAL   TOTAL   TOTAL
MMM YR CMAA HOURS DOLLARS HOURS DOLLARS HOURS DOLLARS
OCT 76   0  27100   0  27053   0  27053

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE  ((RETURN IF FINISHED) > 3)

**** RECORD PUT INTO OUTPUT FILE ****

(1) MOD, (2) NEXT, (3) SPOOL, (4) DELETE  ((RETURN IF FINISHED) >** return **

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) Vought Corporation / Dallas, TX

ENTER OPTION NUMBER > 1

(0) START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) SCOUT SYSTEM PRINTER / PRO

ENTER OPTION NUMBER > 3

ENTER NUMBER OF COPIES (MAX 5) > 0

NO OUTPUT SPOOLED TO PRINTER !!!

A carriage return may be entered as a response for no output.
5.0 INPUT OPTION

When the Input option (option 2) on the Analysis main menu is invoked, the user must first enter the appropriate Work Authorization (WA) number and WA code for the data base record to be Input. The user will then be prompted for the subsequent fields of the header section of the record. Next the user must choose the desired method of building the job orders: manual input or automatic build (which operates similar to the AUTO option discussed in section 4.1 of this document). After the header and job order sections of the record have been input, those sections of the record will be displayed at the terminal screen. The following prompt will then be displayed: ' (1) RATETABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) >'. This is displayed automatically in the input routine because the Input record must have the initial set of hours and dollars data computed. After entering the desired option and the appropriate responses have been entered, the hours and dollars data will be displayed, the system item number of the Input record will be displayed, and the user will be returned to the program main menu. The following example illustrates the input of a data record.

ENTER OPTION > 2

ENTER WA # & WA CODE OF NEW DATA BASE RECORD

!####!code!

3333 ZXY

ENTER HEADER DATA BETWEEN THE '!' MARKS

******************************************************************************
TITLE
I
TEST ENTRY FOR SAMPLE OF INPUT MODE
******************************************************************************

REMARKS
I
NONE
NASA ENG. CONT. ENG. RBK PURCHASE REQUEST
WINTERS

TASK TSKSUB TOTAL-HRS. ODC-MAT DOL. ETC-ODC DOL.
Z

STATUS MOD CONTRACTOR TOTAL HRS. TOTAL DOL.
** return **

*** STATUS MUST BE "AUT" or "FUT" *** > AUT

** CONTRACTOR MUST BE "LTV" or "VOUGHT" ** > LTV

JOB ORDERS BUILT BY: (1) MANUAL
(2) AUTOMATIC
RETURN IF FINISHED

ENTER OPTION # > 1

ENTER NUMBER OF JOB ORDERS (MAX 25) > 2

J. O. ALL-% 77-% 78-% 79-% 80-% 81-% 82-% 83-% 84-%
E7202G 50.000

JOB ORDER SUB-CODE (2 CHAR.) > ** return **

J. O. ALL-% 77-% 78-% 79-% 80-% 81-% 82-% 83-% 84-%
E7206H 50.000

JOB ORDER SUB-CODE (2 CHAR.) > G

DATE: WED, JUN 27 1984 STATUS:AUT J.O.S: 2 MONTHS: SYS ITEM NO: 615
TITLE: TEST ENTRY FOR SAMPLE OF INPUT MODE
MOD: , , , CONTRACTOR:LTV
REMRK:NONE
NASA RESPOINSIBLE ENGR: WINTERS KTR RESPONSIBLE ENGR:
RBK: PURCHASE REQUEST:
CONTRACT/PURCHASE ORDER: NAS1-12500 TASK:Z SUBTASK:
WORK AUTHORITY: 3333 WA CODE: ZXY COMPLETED TASK: NO TABLE: MANL
R.T. HRS: 0 R.T. DOLLARS: 0
TOTAL AUT HOURS: 0 TOTAL AUT DOLLARS: 0 FEE: 0.000%

E7202G 49002023700000400 50.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

- page 42 -
E7206H G 49001014700000400 50.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000

(1) RATE TABLE, (2) SPREAD, (3) MANUAL, (4) DELETE (RETURN IF FINISHED) > 1

TASK= Z

ENTER TOTAL ENGINEERING HOURS > 3

ENTER MATERIAL - ODC DOLLARS > 333

ENTER FISCAL YEAR OF RATES TO BE USED > 80

*******************************************************************************
TOTAL DOLLARS = 0
TOTAL HOURS = 3
*******************************************************************************

ENTER MONTH AND YEAR FOR FIRST MONTH.
MMYY
JAN80

ENTER EAC SPREAD HOURS FOR FIRST MONTH.
NNNNNNNNNN
** return **

ENTER EAC SPREAD DOLLARS FOR FIRST MONTH.
NNNNNNNNNN
** return **

ENTER MONTH AND YEAR FOR LAST MONTH.
MMYY
JAN80

JAN 80 0 0 0 0 0 0

ITEM ADDED TO DATA BASE
SYSTEM ITEM NUMBER = 615

It should be noted that after a record has been input it is a standard procedure for the data file to be resorted and for the balance sheet update to be run. Both of these operations are discussed under the update option in section 8.0 of this document.
6.0 BOOK PART OPTION

The following examples illustrate the Book Part option (option 3) on the main menu. The user should be cautioned that both of these options may be run when another user is currently in the analysis data base. Any listings might represent data that has been updated. Both options available under the Book Part option, the Entire record listing and the Brief listing, will be displayed below.

6.1 ENTIRE RECORD OPTION

There are two additional field names that may be used for retrieval in the Entire record option only: #27 and #28. Their descriptions are:

27) JOBORDER : JOB ORDER NO. (CAN BE USED ONLY DURING PARTIAL BOOKS)
28) PROGRAMNO : PROGRAM NUMBER (CAN BE USED ONLY DURING PARTIAL BOOKS)

The following example illustrates the Entire record option.

ENTER OPTION > 3

TYPE OF PARTIAL REPORT: (1) ENTIRE RECORD  (2) BRIEF LISTING

ENTER OPTION > 1

THE FOLLOWING FIELD NAMES ARE AVAILABLE:
================================================================================
1) DATE  2) STATUS  3) NOJOS
  4) RNTM  5) SYSNUM  6) TITLE
  7) MOD  8) CNT  9) REMARKS
10) NR 11) CR 12) RBK
13) PR 14) CONT 15) TASK
16) TASKAS 17) TASKSB 18) WAN
19) WACODE 20) COMPLETE 21) R.T.HRS
22) R.T.BOM 23) ACTBOM 24) TABLE
25) TOTHRS 26) TOTDOL 27) JOBORDER
28) PROGRAMNO

ENTER FIELD # OR (H) HELP  (RETURN IF NO MORE) > 15

ENTER VALUE > B

ENTER FIELD # OR (H) HELP  (RETURN IF NO MORE) > ** return **

- page 44 -
6 ITEMS IN BOOK

(0) NO OUTPUT IIII
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VAUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER IIII

6.2 BRIEF LISTING OPTION

The following is a sample of the Brief listing option:

ENTER OPTION > 3

TYPE OF PARTIAL REPORT: (1) ENTIRE RECORD (2) BRIEF LISTING

ENTER OPTION > 2

ENTER FIELDS FOR SELECTION OF ITEMS THAT WILL APPEAR IN LIST REPORT

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

=================================================================
1) DATE 2) STATUS 3) NOJOS
4) RNTM 5) SYSNUM 6) TITLE
7) MOD 8) CNT 9) REMARKS
10) NR 11) CR 12) RBA
13) PR 14) CONT 15) TASK
16) TASKAS 17) TASKSB 18) WAN
19) WACODE 20) COMPLETE 21) R.T.HRS
22) R.T.BOM 23) ACTBOM 24) TABLE
25) TOTHR 26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE
B

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

BEGINNING SEARCH

6 ITEMS FOUND
SORTED LISTING BY (1) SYSTEM NUMBER
   (2) SUB-TASK
   (3) WACODE

ENTER OPTION NUMBER > 3

SORTED BY NASA RESPONSIBLE ENGINEER (Y OR N) > Y

WACODE SORT NOW BEGINNING: PLEASE STAND BY

RECORDS FOUND AND SORTED FOR WACODE

ENGINEER SORT NOW BEGINNING: PLEASE STAND BY

RECORDS FOUND AND SORTED FOR ENGINEERS

ALL DONE

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > ** return **

See Appendix A-1 of this document for an example of the printer output for the Book Part Brief option.
7.0 REPORT OPTION

The report generator menu for the Contract Analysis file is displayed as follows:

ENTER OPTION > 4

ENTER OPTION > REPORT

FINANCIAL ANALYSIS REPORT GENERATOR

(1) TABLES (FEES, RATES, SUSTAINING JO'S, PROGRAM NUMBERS, & TIME)
(2) 533 REPORT (CONTRACTUAL 533 FOR VOUGHT CORPORATION, DALLAS, TEXAS)
(3) POP'S (POP1 OR POP2 REPORTS FOR CONTRACT 16200 - FISCAL YEAR)
(4) PROGRAM COST (COSTS BY FISCAL YEAR: PROGRAMS, SUB-JOB, AND W.A.)
(5) PROGRAM HOUR (HOURS BY FISCAL YEAR: PROGRAMS, SUB-JOB, AND W.A.)
(6) PRORATION (HOURLY, DOLLAR COSTS, & DOD REPORTS BY TASK & VEHICLE)
(7) DISCREPANCY (RETRIEVE CONFLICTS IN W.A. RECORDS FOR CONTRACT 16200)
(8) BALANCE SHEET (NOTE: CONTRACT MUST HAVE EAC BALANCE SHEETS TO RUN)
(9) W.A. STATUS (CHECKS COMPLETED FIELD & STATUS DATE - DALLAS LETTER)
(10) PROCESSING (VEHICLE COST SUMMARY - NOTE: MAINLY FOR TASK H USE)
(11) SUMMARIES (ODC ACTUALS, TASK, W.A. & VARIANCE REPORTS FOR 16200)

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

The Contract Analysis report generator has multi-user capability. Any of the available reports may be run by more than one user simultaneously. Note that any listings, however, represent the data base as seen by the user running the report, and that the data may have been updated by another user.

The following sections contain illustrations and instructions for running each of the reports. It should be noted that entering a carriage return at the report generator menu will return the user to the Contract Selection menu shown in section 1.1 of this document.

7.1 TABLE REPORT

A report may be generated for the following tables in this option:
fee table, rate table, sustaining table, program number/job order table, and time table. It should be noted that the user must have the proper security clearance to run reports on the rate table and the time table.

The following sections contain examples which illustrate the terminal actions performed in running each of these table report options.

7.1.1 FEE TABLE

The fee table contains contract numbers, tasks, sub-tasks, and percentage fees. The following is an example of the fee table report. See Appendix D-1 for an example of the report output format.

```
ENTER OPTION: 1

FINANCIAL ANALYSIS TABLES GENERATOR
=======================================
(1) FEE TABLE
(2) RATE TABLE
(3) SUSTAIN JO'S
(4) PROGRAM NO'S
(5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 1

EDIT
B
LOAD FEETBL
EDIT
FILE FEETABLE

(0) NO OUTPUT III
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER III!
```
7.1.2 RATE TABLE

The rate table contains the task and percentage rates for hours and dollars. Each fiscal year has its own set of percentages. The table contains five (5) years worth of rates. The following is an example of the rate table report. See Appendix D-2 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR
=========================================

(1) FEE TABLE
(2) RATE TABLE
(3) SUSTAIN JO'S
(4) PROGRAM NO'S
(5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 2

EDIT
B
LOAD RATEG
EDIT
FILE RATEG

(0) NO OUTPUT III!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) YOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER III!

7.1.3 SUSTAINING JOB ORDERS TABLE

The sustaining job orders table contains all the job orders for each task and subtask combination. Each job order has a set of up to eight (8) percentages for fiscal year distribution. The following is an example of the
sustaining job orders table report. See Appendix D-3 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR
=======================================

(1) FEE TABLE
(2) RATE TABLE
(3) SUSTAIN JO'S
(4) PROGRAM NO'S
(5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 3

EDIT
B
LOAD SSCST
EDIT
FILE SUSTABLE

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!

7.1.4 PROGRAM NUMBERS TABLE

The program numbers table contains job orders and their associated program numbers. The following is an example of the program numbers table report. See Appendix D-4 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR
=======================================

(1) FEE TABLE
(2) RATE TABLE
(3) SUSTAIN JO'S
(4) PROGRAM NO'S

- page 50 -
(5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 4

EDIT
B

LOAD F.ANAL>PRJ0

EDIT

FILE F.ANAL>PROJOTABLE

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!

7.1.5 TIME TABLE

The time table contains the starting and ending month and year, the contract fixed value, and the basic fee in thousands of dollars for each task. The following is an example of the time table report. See Appendix D-5 for an example of the report output format.

FINANCIAL ANALYSIS TABLES GENERATOR
=====================================

(1) FEE TABLE
(2) RATE TABLE
(3) SUSTAIN JO'S
(4) PROGRAM NO'S
(5) TIME TABLE

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: 5

EDIT
B

- page 51 -
The 533 report is a standardized contractor report used by the government to monitor management contracts. It displays dollar and hourly summaries according to Fixed Price Incentive, FPI, and Cost Plus Fixed Fee, CPFF, tasks. This report can generate one of four quarterly reports based on the current status date. The following status months produce quarterly reports:

- September - 1st quarter
- December - 2nd quarter
- March - 3rd quarter
- June - 4th quarter

If a status month is chosen which does not generate a quarterly report, the following message will be displayed on the terminal screen:
"*** 533 REPORT CANNOT BE GENERATED FOR STATUS MONTH OCT ***".

This report prompts the user for certain header data field values to be displayed at output time. The following is an example of a 533 report. See Appendix E for an example of each quarterly 533 report output format (E-1 for the 1st quarter, E-2 for the 2nd quarter, E-3 for the 3rd quarter, and E-4 for the 4th quarter).

ENTER OPTION > 2

ITEM # 4. FUND LIMITATION

** ALL VALUES ARE BOGUS VALUES **

- FPI > 123456
- CPFF > 654321

ITEM # 5. BILLING

A. INVOICE AMT BILLED
- FPI > 98765
- CPFF > 56789

B. TOTAL PYTS REC'D
- FPI > 3333333
- CPFF > 4444444

*** 533 REPORT GENERATION NOW BEGINNING ... PLEASE STAND BY ***

TASK A NOW BEING PROCESSED.
TASK B NOW BEING PROCESSED.
TASK C NOW BEING PROCESSED.
TASK D NOW BEING PROCESSED.
TASK E NOW BEING PROCESSED.
TASK F NOW BEING PROCESSED.
TASK G NOW BEING PROCESSED.
TASK H NOW BEING PROCESSED.
TASK J NOW BEING PROCESSED.
TASK J NOW BEING PROCESSED.
TASK L NOW BEING PROCESSED.
TASK M NOW BEING PROCESSED.
TASK N NOW BEING PROCESSED.
TASK P NOW BEING PROCESSED.
TASK R NOW BEING PROCESSED.
TASK T NOW BEING PROCESSED.
TASK V NOW BEING PROCESSED.
TASK W NOW BEING PROCESSED.
TASK X NOW BEING PROCESSED.

*** TABLE SUB-TOTALS & OUTPUT FILE FOR PRINTING NOW BEING BUILT ***

(0) NO OUTPUT III
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 1

(0) START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

ENTER OPTION NUMBER > 4

ENTER NUMBER OF COPIES (MAX 5) > 1

OUTPUT SPOOLED TO PRINTER

7.3 POP'S REPORT

A POP1 report contains months for the first half of the year only, while a POP2 report contains only those months for the second half of the year. This report displays dollar summaries according to program assignments, such as 400 (NASA) and 493 (DOD). It should be noted that typing 'QUIT' at any point within the report routine will return the user to the previous menu. The following example illustrates the terminal actions per-
formed in running a POP report. See Appendix F for an example of each of the
POP report output formats (F-1 for POP1 and F-2 for POP2).

ENTER OPTION: 3

Five digit contract: 16200

WHICH POP COST REPORT DO YOU DESIRE?
  (1) POP 1 (FIRST HALF OF FISCAL YEAR)
  (2) POP 2 (SECOND HALF OF FISCAL YEAR)
  (QUIT) to exit

--- ENTER OPTION ---> 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) ---->

--- ENTER FISCAL YEAR ---> 85

---------- MENU #1 ----------

REPORT: 1. ONLY
         2. PLUS
BASED ON: 1. EAC'S
          2. ACT'S
FEE TASKS: 1. ALL
         2. NO FEE
         2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 1

---------- MENU #2 ----------

STATUS: 1. ALL
         2. AUT
RECORDS: 1. ALL
          2. MANUAL
PROGNO: 1. ALL
         2. CERTAIN
         3. SUSTAIN

--- ENTER OPTIONS ---> 1 1 1

---------- MENU #3 ----------

J.O.: (1) ALL
     (2) CERTAIN
     (QUIT)
COMPLETED: (1) ALL
           (2) YES
           (3) NO

--- ENTER OPTIONS ---> 1 1

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1
(0) WRONG OFFICE SITE, START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION --> 4

--- ENTER NUMBER OF COPIES (MAX 5) --> 1

Your report is being calculated by Phantom #70

7.4 PROGRAM COST

The Contract Analysis cost report menu appears as follows:

ENTER OPTION: 4

FINANCIAL ANALYSIS COST REPORT GENERATOR

(1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
(2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
(3) W. A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

It should be noted that typing 'QUIT' at any point within the cost report routines will return the user to the previous menu.

7.4.1 PROGRAM REPORT

The Program cost report displays dollar summaries by fiscal year for each task and program assignment, such as 400 (NASA) and 492 (DOD).

The following is an example of the Program cost report. See Appendix G-1 for an example of the Program cost report output format.
ENTER OPTION: 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->
** return **

--- BEGINNING AND ENDING FISCAL YEARS (82-86) ---> ** return **

---------- MENU #1 ----------

REPORT: 1. ONLY BASED ON: 1. EAC'S 1. FEE TASKS: 1. ALL
2. PLUS 2. ACT'S 2. NO FEE 2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> R
--- ENTER TASK ---> T
--- ENTER TASK ---> ** return **

---------- MENU #2 ----------

2. AUT 2. MANUAL 2. CERTAIN
3. FUT 3. SUSTAIN

--- ENTER OPTIONS ---> 1 1 1

---------- MENU #3 ----------

J.O.: (1) ALL COMPLETED: (1) ALL
(2) CERTAIN (2) YES
(3) NO

--- ENTER OPTIONS ---> 2 1
--- ENTER J.O. NUMBER (** for all phases) ---> E8

(1) ENTIRE COST REPORT - ALL FISCAL YEARS
(2) SUMMARY TOTALS ONLY - LAST PAGES OF REPORT

--- ENTER OPTION ---> 2

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR
PROGRAM REPORT
05 FISCAL YEARS 82-86 (ALL)
BASED ON EAC'S
ALL RECORDS
PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS
25 RECORDS COMPUTED.
50 RECORDS COMPUTED.
75 RECORDS COMPUTED.
100 RECORDS COMPUTED.
125 RECORDS COMPUTED.
150 RECORDS COMPUTED.
175 RECORDS COMPUTED.
200 RECORDS COMPUTED.
225 RECORDS COMPUTED.
250 RECORDS COMPUTED.

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

(0) WRONG OFFICE SITE, START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

OUTPUT SPOOLED TO PRINTER: BOOK.840928.130802.T$

FINANCIAL ANALYSIS COST REPORT GENERATOR
==========================================

(1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
(2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
(3) W.A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: ** return **
7.4.2 SUB-JOB ORDER REPORT

The Sub-job order cost report displays dollar summaries by fiscal year for each sub-job order, and program assignments, such as 400 (NASA) and 493 (DOD). See section 7.4.1 of this document, Program report, for an example of the user options required for executing this report. See Appendix G-2 for an example of the Sub-job order cost report output format.

7.4.3 W.A. REPORT

The Work Authorization (W.A.) cost report displays dollar summaries by fiscal year for each W.A. and program assignment, such as 400 (NASA) and 493 (DOD). The following is an example of the W.A. cost report. See Appendix G-3 for an example of the Work Authorization cost report output format.

ENTER STATUS MONTH NUMBER & YEAR
!MOIYRI (BLANK ENTRY FOR CURRENT DATE)

ENTER BEGINNING AND ENDING FYS.
NN NN
82 86

ENTER MENU #1 OPTION:
(1) WA NUMBER: ALL WITH FEE ALL
(2) WA NUMBER: ALL WITH FEE MANUAL
(3) WA NUMBER: ALL WITH FEE SUSTAIN
(4) WA NUMBER: ALL NO FEE ALL
(5) WA NUMBER: ALL NO FEE MANUAL
(6) WA NUMBER: ALL NO FEE SUSTAIN
(7) WA NUMBER: CERTAIN WITH FEE ALL
(8) WA NUMBER: CERTAIN WITH FEE MANUAL
(9) WA NUMBER: CERTAIN WITH FEE SUSTAIN
(10) WA NUMBER: CERTAIN NO FEE ALL
(11) WA NUMBER: CERTAIN NO FEE MANUAL
(12) WA NUMBER: CERTAIN NO FEE SUSTAIN

ENTER W.A. NUMBER OR ALL
NNNN
3008

ENTER MENU #2 OPTION:
(1) TASK: ALL PROGNO: ALL J.O.: ALL
(2) TASK: ALL PROGNO: ALL J.O.: CERTAIN
The Contract Analysis file hour report menu appears as follows:

ENTER OPTION: 5

FINANCIAL ANALYSIS HOUR REPORT GENERATOR

(1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
7.5.1 PROGRAM REPORT

The Program hourly report displays hourly summaries by fiscal year for each task and program assignment, such as 400 (NASA) and 492 (DOD).

The following is an example of the Program hour report. See Appendix H-1 for an example of the Program hourly report output format.

ENTER OPTION: 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) ---> ** return **
--- BEGINNING AND ENDING FISCAL YEARS (82-86) ---> ** return **

---------- MENU #1 ----------
REPORT: 1. ONLY 2. PLUS
BASED ON: 1. EAC'S 2. ACT'S
TASKS: 1. ALL 2. CERTAIN

--- ENTER OPTIONS ---> 1 2 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> A
--- ENTER TASK ---> ** return **

---------- MENU #2 ----------
STATUS: 1. ALL 2. AUT 3. FUT
RECORDS: 1. ALL 2. MANUAL 3. SUSTAIN
PROGNO: 1. ALL 2. CERTAIN

--- ENTER OPTIONS ---> 1 1 2

ENTER PROGRAM NUMBERS (BLANK FOR ALL)
--- NNNNNNNNNNNNNNNN --->
--- 400
--- MENU #3 ---

J.O.: (1) ALL  COMPLETED: (1) ALL
   (2) CERTAIN       (2) YES
   (3) NO

--- ENTER OPTIONS ---> 1 2

(1) ENTRIE HOURS REPORT - ALL FISCAL YEARS
(2) SUMMARY TOTALS ONLY - LAST PAGES OF REPORT

--- ENTER OPTION ---> 2

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 2

(0) WRONG OFFICE SITE, START OVER
(1) LQP S - SINGLE SHEET
(2) LQP T - COMPUTER PAPER
(3) DALLAS SYSTEM PRINTER / W

--- ENTER OPTION ---> 3

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

[Count Phantoms: Rev 19.2.7]

Your report is being calculated by Phantom #64

FINANCIAL ANALYSIS HOUR REPORT GENERATOR

(1) PROGRAM REPORT ( EACH TASK FOR CONTRACT 16200 )
(2) SUB-JOBORDER REPORT ( EACH TASK FOR CONTRACT 16200 )
(3) W. A. REPORT ( EACH W.A. FOR CONTRACT 16200 )

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: ** return **

--- 7.5.2 SUB-JOB ORDER REPORT ---

The Sub-job order hourly report displays hourly summaries for fiscal
year for each sub-job order and program assignment, such as 400 (NASA) and 493 (DOD). See section 7.5.1 of this document, Program report, for an example of the user options required to execute this report. See Appendix H-2 for an example of the Sub-job order hourly report output format.

7.5.3 W.A. REPORT

The Work Authorization (W.A.) hourly report displays hourly summaries by fiscal year for each W.A. and program assignment, such as 400 (NASA) and 493 (DOD). The following is an example of the W.A. hourly report. See Appendix H-3 for an example of the Work Authorization hourly report output format.

ENTER STATUS MONTH NUMBER & YEAR
IMOYRI (BLANK ENTRY FOR CURRENT DATE)

ENTER BEGINNING AND ENDING FYS.
NN NN
82 85

ENTER MENU #1 OPTION:
(1) WA NUMBER: ALL ALL
(2) WA NUMBER: ALL MANUAL
(3) WA NUMBER: ALL SUSTAIN
(4) WA NUMBER: CERTAIN ALL
(5) WA NUMBER: CERTAIN MANUAL
(6) WA NUMBER: CERTAIN SUSTAIN
1

ENTER MENU #2 OPTION:
(1) TASK: ALL PROGNO: ALL J.O.: ALL
(2) TASK: ALL PROGNO: CERTAIN J.O.: CERTAIN
(3) TASK: ALL PROGNO: CERTAIN J.O.: CERTAIN
(4) TASK: CERTAIN PROGNO: ALL J.O.: ALL
(5) TASK: CERTAIN PROGNO: ALL J.O.: CERTAIN
(6) TASK: CERTAIN PROGNO: CERTAIN J.O.: CERTAIN
(7) TASK: CERTAIN PROGNO: CERTAIN J.O.: CERTAIN
(8) TASK: CERTAIN PROGNO: CERTAIN J.O.: CERTAIN
7

ENTER TASK
R
ENTER PROGRAM NUMBER  (BLANK FOR ALL)

493

ENTER MENU #3 OPTION:
(1) STATUS: ALL  COMPLETE: ALL
(2) STATUS: ALL  COMPLETE: YES
(3) STATUS: ALL  COMPLETE: NO
(4) STATUS: FUT  COMPLETE: ALL
(5) STATUS: FUT  COMPLETE: YES
(6) STATUS: FUT  COMPLETE: NO
(7) STATUS: AUT  COMPLETE: ALL
(8) STATUS: AUT  COMPLETE: YES
(9) STATUS: AUT  COMPLETE: NO

325 RECORDS COMPUTED.
50 RECORDS COMPUTED.
75 RECORDS COMPUTED.
100 RECORDS COMPUTED.
125 RECORDS COMPUTED.
150 RECORDS COMPUTED.
175 RECORDS COMPUTED.
200 RECORDS COMPUTED.
225 RECORDS COMPUTED.
250 RECORDS COMPUTED.
275 RECORDS COMPUTED.

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!
It should be noted that typing 'QUIT' at any point in the proration report routines will return the user to the previous menu.

7.6.1 HOURLY REPORT

The proration hourly report displays hourly data by vehicle, phase, and program. There are three (3) main options for report formats:

(1) Regular - showing tasks by mod
(2) Special R - showing task R only by subtask number
(3) Subjoborder - showing each task by joborder alpha-subtask.

The following is an example of the proration hourly report. See Appendix I for an example of each proration hourly report output format (1-1 for Regular, 1-2 for Special R Subtask, and 1-3 for Sub-job Order).

ENTER OPTION: 1

WHICH PRORATION OF HOURS REPORT DO YOU DESIRE?
(1) REGULAR
(2) SPECIAL R SUBTASK
(3) SUB-JOBORDER
(QUIT) to exit

--- ENTER OPTION ---> 2

*** NOTE: TASK R IS AUTOMATIC - NO SELECTION NEEDED.

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->
** return **

---------- MENU #1 ----------

REPORT: 1. ONLY BASED ON: 1. EAC'S
2. PLUS 2. ACT'S

--- ENTER OPTIONS ---> 1 2

---------- MENU #2 ----------

2. AUT 2. MANUAL 2. CERTAIN
3. FUT 3. SUSTAIN

--- ENTER OPTIONS ---> 1 1 1
--- ENTER OPTIONS ---> 1 1

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 2

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

(0) WRONG OFFICE SITE, START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 1

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

[Count Phantoms: Rev 19.2.7]

Your report is being calculated by Phantom #67

FINANCIAL ANALYSIS PRORATION REPORT GENERATOR

(1) HOURLY REPORT (REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200)
(2) DOLLAR REPORT (REGULAR, SPECIAL R, OR SUB-JOBORDER FOR CONTRACT 16200)
(3) DOD REPORT (SPECIAL PRORATION FOR MULTI-CONTRACTUAL DATA)

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION: ** return **

7.6.2 DOLLAR REPORT

The cost proration report displays dollar data by vehicle, phase, and program. There are three (3) main options for report formats:

(1) Regular - showing tasks by mod
(2) Special R – showing task R only by subtask number
(3) Subjoborder – showing each task by joborder alpha-subtask.

The following is an example of the proration dollar report.
See Appendix J for an example of each proration of costs report output format
(J-1 for Regular, J-2 for Special R Subtask, and J-3 for Sub-job Order).

ENTER OPTION: 2

WHICH PRORATION OF COST REPORT DO YOU DESIRE?
(1) REGULAR
(2) SPECIAL R SUBTASK
(3) SUB-JOBOORDER
(QUIT) to exit

--- ENTER OPTION ---> 1

--- ENTER STATUS MONTH NUMBER & YEAR (BLANK ENTRY FOR CURRENT DATE) --->
** return **

---------- MENU #1 ----------

REPORT: 1. ONLY  BASED ON: 1. EAC'S  1. FEE  TASKS: 1. ALL
2. PLUS  2. ACT'S  2. NO FEE  2. CERTAIN

--- ENTER OPTIONS ---> 1 1 1 2

ENTER A BLANK WHEN DONE

--- ENTER TASK ---> R
--- ENTER TASK ---> M
--- ENTER TASK ---> J
--- ENTER TASK ---> E
--- ENTER TASK ---> ** return **

---------- MENU #2 ----------

2. AUT  2. MANUAL  2. CERTAIN
3. FUT  3. SUSTAIN

--- ENTER OPTIONS ---> 1 2 1

---------- MENU #3 ----------

J.O.: (1) ALL  COMPLETED: (1) ALL
(2) CERTAIN  (2) YES
(3) NO

--- ENTER OPTIONS ---> 1 3

- page 67 -
(1) COMPUTE REPORT WHILE I WAIT  
(2) SUBMIT AS A FAST PHANTOM JOB  
(3) SUBMIT AS A SLOW BATCH JOB  

--- ENTER OPTION ---> 3  

(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX  
(3) PROJECTS DIRECTORATE / LARC, NASA  

--- ENTER OPTION ---> 1  

(0) WRONG OFFICE SITE, START OVER  
(1) LQP A - COMPUTER PAPER  
(2) LQP B - SINGLE SHEET  
(3) LQP G - DUAL SHEET  
(4) SCOUT SYSTEM PRINTER / PRO  

--- ENTER OPTION ---> 4  

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1  

[Count Phantoms: Rev 19.2.7]  

Your report is being calculated by a slow batch job  

7.6.3 DOD REPORT  

The Department of Defense, DOD, proration of costs report displays dollar data by vehicle, phase, and program for multiple contracts on each task and sub-job order assignment. The following is the DOD proration of costs report menu. Each of the report options is discussed in the following sections.  

ENTER OPTION: 3  

FINANCIAL ANALYSIS DOD REPORT GENERATOR  

(1) HARDWARE COSTS REPORT ( BY CONTRACT, SUB-JOB, & VEHICLE )  
(2) MISSION COSTS REPORT ( BY CONTRACT, SUB-JOB, & VEHICLE )  
(3) ANNUAL COSTS REPORT ( BY CONTRACT, SUB-JOB, FISCAL YR )  

ENTER NUMBER ONLY :: (RETURN TO EXIT)
ENTER OPTION:

7.6.3.1 HARDWARE COSTS REPORT

The DOD Hardware Costs report displays costs for multiple contracts by each hardware task and sub-joborder assignment for DOD vehicles only. A subtotal summary is given for each branch of the Department of Defense: ITV, Air Force, PB3, and Navy. The following is an example of the DOD Hardware Costs report. See Appendix K-1 for an example of the Hardware Costs report output format.

VEHICLES: 1. ALL
2. CERTAIN

--- ENTER OPTIONS ---> 2

--- ENTER VEHICLE ---> 198

**** ERROR **** 198 IS NOT A DOD VEHICLE

--- ENTER VEHICLE ---> 199

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

DOD HARDWARE COST REPORT
TASK(S) 199
REPORT WITH FEE
DATE COMPUTED:
TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200
50 RECORDS COMPUTED.
100 RECORDS COMPUTED.
150 RECORDS COMPUTED.
200 RECORDS COMPUTED.
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000
300 RECORDS COMPUTED.
350 RECORDS COMPUTED.

- page 69 -
7.6.3.2 MISSION COSTS REPORT

The DOD Mission Costs report displays costs for multiple contracts by each mission task and sub-joborder assignment for DOD vehicles only. A subtotal summary is given for each branch of the Department of Defense: ITV, Air Force, P83, and Navy. The following is an example of the DOD Mission Costs report. See Appendix K-2 for an example of the Mission Costs report output format.

VEHICLES:  1. ALL
           2. CERTAIN

--- ENTER OPTIONS ---> 1

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

DOD MISSION COST REPORT
TASK(S) ALL
REPORT WITH FEE
DATE COMPUTED:
TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200
50 RECORDS COMPUTED.
100 RECORDS COMPUTED.
150 RECORDS COMPUTED.
200 RECORDS COMPUTED.
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000
300 RECORDS COMPUTED.
350 RECORDS COMPUTED.
.
.
800 RECORDS COMPUTED.

ETC. (OTHER CONTRACTS)

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> 1

(0) WRONG OFFICE SITE, START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION ---> 4

--- ENTER NUMBER OF COPIES (MAX 5) ---> 1

7.6.3.3 ANNUAL COSTS REPORT

The DOD Annual Costs report displays costs for multiple contracts by each task and sub-joborder assignment which are not classified as hardware or mission type. The report provides fiscal year costs with subtotal summaries by each branch of the Department of Defense: ITV, Air Force, P83, and Navy. The following is an example of the DOD Annual Costs report. See Appendix K-3 for an example of the Annual Costs report output format.

- page 71 -
--- BEGINNING AND ENDING FISCAL YEARS (74-88) --->

** return **

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION --->

DOD ANNUAL COST REPORT
15 FISCAL YEARS 74-88 (ALL)
REPORT WITH FEE
DATE COMPUTED:
TUE, MAY 28 1985 01:08:02 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

CONTRACT: NAS1-16200
50 RECORDS COMPUTED.
100 RECORDS COMPUTED.
150 RECORDS COMPUTED.
200 RECORDS COMPUTED.
250 RECORDS COMPUTED.

CONTRACT: NAS1-15000
300 RECORDS COMPUTED.
350 RECORDS COMPUTED.
400 RECORDS COMPUTED.
450 RECORDS COMPUTED.
500 RECORDS COMPUTED.
800 RECORDS COMPUTED.

ETC. (OTHER CONTRACTS)

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION --->

(0) WRONG OFFICE SITE, START OVER
(1) LQP A - COMPUTER PAPER
(2) LQP B - SINGLE SHEET
(3) LQP G - DUAL SHEET
(4) SCOUT SYSTEM PRINTER / PRO

--- ENTER OPTION --->

--- ENTER NUMBER OF COPIES (MAX 5) --->

--- page 72 ---
7.7 DISCREPANCY REPORT

The Discrepancy report searches the financial data base for a wide range of errors and irregularities, including records which are in overrun condition. Records found are formatted for output to the printer in the same fashion as in an Entire Record (see Appendix C-1 for an example of an Entire Record Format).

The following example illustrates the terminal actions performed in running a Discrepancy report.

ENTER OPTION: 7

DISCREPANCY REPORT GENERATOR FOR CONTRACT NAS1-16200

SEARCH NOW BEGINNING - STAND BY.

RECORD NO.  22 FOUND FOR SPOOL
RECORD NO.  23 FOUND FOR SPOOL
RECORD NO.  27 FOUND FOR SPOOL
RECORD NO.  32 FOUND FOR SPOOL
RECORD NO.  33 FOUND FOR SPOOL
RECORD NO.  48 FOUND FOR SPOOL
RECORD NO.  54 FOUND FOR SPOOL
RECORD NO.  72 FOUND FOR SPOOL
RECORD NO.  245 FOUND FOR SPOOL

9 RECORDS FOUND WITH DISCREPANCIES.

(0) NO OUTPUT III
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER III

- page 73 -
7.8 BALANCE SHEET REPORT

The Balance Sheet report displays the authorized and estimate to complete dollars and hours for each task. It should be noted that a contract must have EAC balance sheet records within its data base file in order to execute the Balance Sheet report.

The following example illustrates the terminal actions performed in running a Balance Sheet report. See Appendix L-1 for an example of the Balance Sheet report output format.

ENTER OPTION: 8

JUN 84

30 RECORDS COMPUTED  
60 RECORDS COMPUTED  
90 RECORDS COMPUTED  
120 RECORDS COMPUTED  
150 RECORDS COMPUTED  
180 RECORDS COMPUTED  
210 RECORDS COMPUTED  
240 RECORDS COMPUTED

(0) NO OUTPUT !!!  
(1) SCOUT PROJECT OFFICE / LARC, NASA  
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!
Authorization Status report output format.

ENTER OPTION: 9

SEARCH IN PROGRESS - PLEASE STAND BY

50 RECORDS COMPUTED.
JUL 84 SYS NO= 76
JUL 84 SYS NO= 80
100 RECORDS COMPUTED.
JUL 84 SYS NO= 138
150 RECORDS COMPUTED.
200 RECORDS COMPUTED.
250 RECORDS COMPUTED.

(0) NO OUTPUT
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER

7.10 PROCESSING REPORT

The Processing report computes the sustaining job order percents for each fiscal year. This computation is usually based upon task H, but can be run on any contract task.

The following example illustrates the terminal actions performed in running a Processing report. See Appendix N-1 for an example of the Processing report output format.

ENTER OPTION: 10

ENTER STATUS MONTH & YEAR
MM YY
06 84

REPORT BASED ON EAC (EAC)
ACTUALS (ACT)
ENTER FEE OPTION (YES OR NO)
NO

ENTER JOB ORDER TASK
H

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS

50 RECORDS COMPUTED.
100 RECORDS COMPUTED.
RECORD NO. = 119
RECORD NO. = 120
RECORD NO. = 121
RECORD NO. = 122
RECORD NO. = 123
RECORD NO. = 124
RECORD NO. = 125
RECORD NO. = 126
RECORD NO. = 127
RECORD NO. = 128
RECORD NO. = 129
RECORD NO. = 130
RECORD NO. = 131
RECORD NO. = 132
RECORD NO. = 133
RECORD NO. = 136
RECORD NO. = 139
RECORD NO. = 140
RECORD NO. = 141
RECORD NO. = 142
RECORD NO. = 144
RECORD NO. = 146
RECORD NO. = 147
150 RECORDS COMPUTED.
200 RECORDS COMPUTED.
RECORD NO. = 209
RECORD NO. = 217
RECORD NO. = 229
RECORD NO. = 230
250 RECORDS COMPUTED.
RECORD NO. = 256

(0) NO OUTPUT
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER
7.11 SUMMARY REPORT

The Contract Analysis summary report menu appears as follows:

ENTER OPTION: 10

FINANCIAL ANALYSIS SUMMARY REPORT GENERATOR
===========================================
(1) ACTUAL REPORT (ACTUAL ODC-MATERIAL DOLLAR SUMMARY FOR CONTRACT 16200)
(2) TASK REPORT (NOTE: MUST HAVE EAC BALANCE SHEETS FOR CONTRACT 16200)
(3) W. A. REPORT (ONLY OPEN WA'S SORTED BY ENGINEER FOR CONTRACT 16200)
(4) VARIANCE REPT (NOTE: MUST HAVE EAC BALANCE SHEETS FOR CONTRACT 16200)
(5) YEARLY REPORT (DOLLARS/HOURS SUMMARY BY FISCAL/CALENDAR YR FOR 16200)

ENTER NUMBER ONLY :: (RETURN TO EXIT)

ENTER OPTION:

7.11.1 ACTUAL REPORT

The Actual summary report computes the total Actual ODC-Material dollars for all tasks or any individual selected task.

The following is an example of the Actual summary report. See Appendix 0-1 for an example of the Actual summary report output format.

ENTER OPTION: 1

ENTER TASK OR ALL

ALL
(0) NO OUTPUT III
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER IIII

7.11.2 TASK REPORT

The Task summary report displays all committed and authorized dollars and hours with estimates to complete by percentage for each task.

- page 77 -
It should be noted that the contract must have EAC balance sheet records within its database file in order to execute the Task summary report. The following is an example of this report. See Appendix 0-2 for an example of the Task Summary report output format.

ENTER OPTION: 2

ENTER TASK OR ALL OR BLANK WHEN FINISHED

ALL

TASK A NOW WORKING
TASK B NOW WORKING
TASK C NOW WORKING
TASK D NOW WORKING
TASK E NOW WORKING
TASK F NOW WORKING
TASK G NOW WORKING
TASK H NOW WORKING
TASK J NOW WORKING
TASK J NOW WORKING
TASK L NOW WORKING
TASK M NOW WORKING
TASK N NOW WORKING
TASK P NOW WORKING
TASK R NOW WORKING
TASK T NOW WORKING
TASK V NOW WORKING
TASK W NOW WORKING
TASK X NOW WORKING

OUTPUT Formatting IN PROGRESS - PLEASE STAND BY
The Work Authorization summary report displays all open W.A.'s for each responsible engineer with all budgeted, actual, and estimate to complete dollars and hours. An option is given for a Book of W.A.'s for each engineer in addition to the summary.

The following is an example of the W.A. summary report. See Appendix 0-3 for an example of the Work Authorization summary report output format.

ENTER OPTION: 3

ENTER TASK OR ALL
ALL

ENTER RESPONSIBLE ENGINEER OR ALL
ALL

68 RECORDS FOUND FOR W.A. SUMMARY REPORT

WA SUMMARY REPORT WITH OR WITHOUT BOOK OF RECORDS
( WITH OR OUT )
WITH

OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

BOOK LISTING OF RECORDS SHOULD BE SPOOLED TO SYSTEM PRINTER

(0) NO OUTPUT !!!
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER !!!!
BRIEF LISTING OF RECORDS BY ENGINEER

(0) NO OUTPUT III
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER IIII

7.11.4 VARIANCE REPORT

The Variance report displays all committed and contract values on dollars and hours by percentage for each task.

It should be noted that the contract must have EAC balance sheet records within its data base file in order to execute the Variance summary report. The following is an example of this report. See Appendix 0-4 for an example of the Variance summary report output format.

ENTER OPTION: 4

ENTER TASK OR ALL OR BLANK WHEN FINISHED
ALL

TASK A NOW WORKING
TASK B NOW WORKING
TASK C NOW WORKING
TASK D NOW WORKING
TASK E NOW WORKING
TASK F NOW WORKING
TASK G NOW WORKING
TASK H NOW WORKING
TASK J NOW WORKING
TASK L NOW WORKING
TASK M NOW WORKING
TASK N NOW WORKING
TASK P NOW WORKING
TASK R NOW WORKING
TASK T NOW WORKING
TASK V NOW WORKING
TASK W NOW WORKING
TASK X NOW WORKING

OUTPUT FORMATTING IN PROGRESS - PLEASE STAND BY

(0) NO OUTPUT 111
(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX

ENTER OPTION NUMBER > 0

NO OUTPUT SPOOLED TO PRINTER 1111

7.11.5 YEARLY REPORT

The Yearly report displays all the fiscal year costs and hours for an entire contract. The same query options are available as used on the Cost reports (see section 7.4.1 of this document). A terminal display of total costs and hours by fiscal year is given within the report as shown in the following example. Printer output of the report also includes a calendar year cost and hourly summary (see Appendix 0-5 for an example of the Yearly report output format).

"-CON 16200 "

---------- MENU #1 ----------

REPORT: 1. ONLY   BASED ON: 1. EAC'S 1. FEE   TASKS: 1. ALL
      2. PLUS     2. ACT'S 2. NO FEE 2. CERTAIN

--- ENTER OPTIONS ---> 1 1 2 1

- page 81 -
2. AUT  2. MANUAL  2. CERTAIN
3. FUT  3. SUSTAIN

--- ENTER OPTIONS ---> 1 1 1

--- ENTER OPTIONS ---> 1 1

(1) COMPUTE REPORT WHILE I WAIT
(2) SUBMIT AS A FAST PHANTOM JOB
(3) SUBMIT AS A SLOW BATCH JOB

--- ENTER OPTION ---> 1

CONTRACT: NAS1-16200

MIN-MAX-YEAR REPORT BY FISCAL YEAR
DOLLARS AND HOURS REPORT
BASED ON EAC'S
ALL RECORDS
ALL TASKS
REPORT WITHOUT FEE
ALL PROGRAMS
ALL JOB ORDERS
ALL W.A.'S
DATE COMPUTED:
TUE, APR 30 1985 03:23:05 PM

PLEASE STAND BY - SEARCH & COMPUTATION IN PROGRESS
25 RECORDS COMPUTED.
50 RECORDS COMPUTED.
75 RECORDS COMPUTED.
100 RECORDS COMPUTED.
125 RECORDS COMPUTED.
150 RECORDS COMPUTED.
175 RECORDS COMPUTED.
200 RECORDS COMPUTED.
225 RECORDS COMPUTED.
250 RECORDS COMPUTED.
275 RECORDS COMPUTED.
300 RECORDS COMPUTED.

FIRST MONTH IN CONTRACT NAS1-16200 = MAR 1981
LAST MONTH IN CONTRACT NAS1-16200 = OCT 1986
<table>
<thead>
<tr>
<th>YEAR</th>
<th>DOLLARS</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1982</td>
<td>$7,392,642</td>
<td>112,886</td>
</tr>
<tr>
<td>1983</td>
<td>$9,621,541</td>
<td>135,711</td>
</tr>
<tr>
<td>1984</td>
<td>$8,993,463</td>
<td>105,783</td>
</tr>
<tr>
<td>1985</td>
<td>$9,913,596</td>
<td>94,905</td>
</tr>
<tr>
<td>1986</td>
<td>$2,984,644</td>
<td>20,878</td>
</tr>
<tr>
<td>1987</td>
<td>$3,219,116</td>
<td>18,084</td>
</tr>
</tbody>
</table>

TOTAL $42,125,002 488,247

(1) SCOUT PROJECT OFFICE / LARC, NASA
(2) VOUGHT CORPORATION / DALLAS, TX
(3) PROJECTS DIRECTORATE / LARC, NASA

--- ENTER OPTION ---> QUIT
EXIT.
8.0 UPDATE OPTION

The Update menu for the Contract Analysis file contains the following options: Dallas Tape update, Balance sheet update, ETC EAC-Budget update, Quickie Header update, Edit Tables, Resort Database, Book All Outputs, and Job Orders update. Each of these options is discussed in detail and illustrated in the following sections.

8.1 DALLAS TAPE UPDATE

A Dallas actuals tape update may be performed for a particular contract only if a WA list file has been built for that contract. The building of the WA list file is accomplished once a month by the computer support staff during the tape-to-disk conversion of the monthly Dallas actuals tape from Vought Corporation in Texas. Within this routine the user will be prompted for the status date (month and year) for the actual dollar figures to be input. No other user interface is required. Two printouts will be automatically spooled to the system printer when the update has been completed: (1) a detailed report of what values were converted, called the CONVERSION report, and (2) a listing of those records not found in the Contract Analysis data base, called UNDEFINED. The following illustrates the update routine.

ENTER OPTION > 5

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

=======================~===================
(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS

- page 84 -
(8)  JOB ORDERS

ENTER OPTION # > 1

ENTER STATUS MONTH NAME AND YEAR

OCT 84

  3005 AAA  FOUND FOR PROCESSING
  3005 AAB  FOUND FOR PROCESSING
  3005 AAC  FOUND FOR PROCESSING
  3005 AAD  FOUND FOR PROCESSING
  3005 AAE  FOUND FOR PROCESSING
  3005 BAA  FOUND FOR PROCESSING
  3005 BADB FOUND FOR PROCESSING
  3005 BAEA FOUND FOR PROCESSING
  3005 BAEB FOUND FOR PROCESSING
  3005 BAEC FOUND FOR PROCESSING
  3008 RPAE FOUND FOR PROCESSING
  3008 RYAA  FOUND FOR PROCESSING

  9 UNDEFINED WA RECORDS WERE FOUND

UNDEFINED WA OUTPUT READY FOR SPOOLING

(0)  NO OUTPUT !!!
(1)  SCOUT PROJECT OFFICE / LARC, NASA
(2)  VOUGHT CORPORATION / DALLAS, TX
(3)  PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 0

   NO OUTPUT SPOOLED !!!!

CONVERSION FILE READY FOR SPOOLING

** NOTE **  THIS FILE SHOULD BE SPOOLED TO THE SYSTEM PRINTER

(0)  NO OUTPUT !!!
(1)  SCOUT PROJECT OFFICE / LARC, NASA
(2)  VOUGHT CORPORATION / DALLAS, TX
(3)  PROJECTS DIRECTORATE / LARC, NASA

ENTER OPTION NUMBER > 0

   NO OUTPUT SPOOLED !!!!

When this routine has been completed, the user is returned to the program main menu. The Discrepancy report and then the W.A. Status report must be run next from the report menu in that order (see sections 7.7 and
7.9 of this document). After corrections have been made to any discrepancies, the Balance Sheet update routine must be run (see section 8.2 of this document).

8.2 BALANCE SHEET UPDATE

The balance sheet update routine may be run only on those contracts which have EAC Balance sheet records within the data base file. If an attempt is made to run a balance sheet update on a contract that does not have EAC Balance sheet records within the data base file, the following will be displayed:

'BALANCE SHEET UPDATE CANNOT BE DONE FOR THIS CONTRACT ******** THERE ARE NO BALANCE SHEETS IIII'

In the balance sheet update routine the user must first enter the desired status date (month and year) to be updated. Next the desired task must be entered, or a carriage return entered to indicate that all tasks are to be updated, and then the record numbers of those records updated will be displayed at the terminal screen. If no errors are encountered, a message stating so will be displayed. If errors are encountered, a message stating so will be displayed, and a report containing those errors will be automatically spooled to the system printer. The user may wish to have a complete balance sheet report showing a detailed outline of all hours and dollars for every task of a particular contract. This report is run from the Contract Analysis report generator which is option four (4) on the main menu. The following example illustrates the balance sheet update option.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)
===========================================
(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET

- page 86 -
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 2

ENTER STATUS DATE TO BE UPDATED.

I I I

OCT 76

ENTER TASK TO BE UPDATED (BLANK FOR ALL) > A

A 1
NREC= 2 BALANCE LIST NO.= 1
NREC= 3 BALANCE LIST NO.= 1
NREC= 4 BALANCE LIST NO.= 1
NREC= 5 BALANCE LIST NO.= 1
NREC= 6 BALANCE LIST NO.= 1
NREC= 7 BALANCE LIST NO.= 1

**** NO ERRORS IN THE BALANCE SHEET UPDATE ****

BALANCE SHEET REPORT RUN FROM REPORT MENU

8.3 ETC EAC-BUDGET UPDATE

This option allows the user to update the hours and dollars data by computing a new budget and estimate at completion (EAC) based upon the contractor's latest estimate to complete (ETC) data and the fiscal year rates. This update is designed for records which are not yet closed and which contain the current status date. However, the user may change the status date to begin ETC computation at the beginning of this routine. This may be done in order to match a month and year contained in the hours and dollars data of the analysis record to the modified status date. It should be noted that this status date change is temporary and is in effect for the current session only.

The following is an analysis record prior to any EAC - ETC update. The reader should note the values of the hours and dollars data for May,
DATE: THU, MAY 10 1984 STATUS: AUT J.O.S: 16 MONTHS: 14 SYS ITEM NO: 125
TITLE: PROCUREMENT & SHIPMENT OF MISCELLANEOUS ITEMS, VEHICLE PROCESSING
MOD: , , , CONTRACTOR: VOUGHT
REMARK:
NASA RESPONSIBLE ENGR: RLD KTR RESPONSIBLE ENGR: SHAW
RBK:
CONTRACT/PURCHASE ORDER: NASI-16200 TASK: H SUBTASK: 
WORK AUTHORITY: 3005 WA CODE: HAA COMPLETED TASK: NO TABLE: SUST
R.T. HRS: 1952 R.T. DOLLARS: 15348
TOTAL AUT HOURS: 1960 TOTAL AUT DOLLARS: 97020 FEE: 15.927%

<table>
<thead>
<tr>
<th>MMM</th>
<th>CUM EAC</th>
<th>CUM ACTUALS</th>
<th>COMPLETION(EAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR</td>
<td>SPREAD</td>
<td>TOTAL HOURS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL DOLLARS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL HOURS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL DOLLARS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL HOURS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL DOLLARS</td>
<td></td>
</tr>
<tr>
<td>SEP</td>
<td>538</td>
<td>22541</td>
<td></td>
</tr>
<tr>
<td></td>
<td>538</td>
<td>22541</td>
<td></td>
</tr>
<tr>
<td>OCT</td>
<td>633</td>
<td>26392</td>
<td></td>
</tr>
<tr>
<td></td>
<td>538</td>
<td>22541</td>
<td></td>
</tr>
<tr>
<td>NOV</td>
<td>728</td>
<td>30243</td>
<td></td>
</tr>
<tr>
<td></td>
<td>538</td>
<td>23095</td>
<td></td>
</tr>
<tr>
<td>DEC</td>
<td>564</td>
<td>24089</td>
<td></td>
</tr>
<tr>
<td></td>
<td>538</td>
<td>24089</td>
<td></td>
</tr>
<tr>
<td>JAN</td>
<td>669</td>
<td>28720</td>
<td></td>
</tr>
<tr>
<td></td>
<td>589</td>
<td>25107</td>
<td></td>
</tr>
<tr>
<td>FEB</td>
<td>774</td>
<td>33351</td>
<td></td>
</tr>
<tr>
<td></td>
<td>622</td>
<td>27953</td>
<td></td>
</tr>
<tr>
<td>MAR</td>
<td>879</td>
<td>37982</td>
<td></td>
</tr>
<tr>
<td></td>
<td>647</td>
<td>29187</td>
<td></td>
</tr>
<tr>
<td>APR</td>
<td>984</td>
<td>42613</td>
<td></td>
</tr>
<tr>
<td></td>
<td>656</td>
<td>30257</td>
<td></td>
</tr>
<tr>
<td>MAY</td>
<td>1089</td>
<td>47244</td>
<td></td>
</tr>
<tr>
<td></td>
<td>698</td>
<td>32046</td>
<td></td>
</tr>
<tr>
<td>JUN</td>
<td>1194</td>
<td>51875</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>JUL</td>
<td>1299</td>
<td>56506</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>AUG</td>
<td>1404</td>
<td>61137</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>SEP</td>
<td>1509</td>
<td>65764</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>OCT</td>
<td>1509</td>
<td>65764</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

The following example illustrates the ETC update procedure.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 3

WELCOME TO THE ETC / EAC UPDATE ROUTINE

THE CURRENT STATUS DATE IS MAY 84
CURRENT STATUS DATE OK (Y OR N) > Y ** If 'N' is entered, the prompt
ENTER NEW STATUS DATE FOR THIS RECORD UPDATE SESSION
!MMMMYY!
                           is displayed.

ENTER WAN & WACODE (RETURN IF DONE)
NNNAAAA
305HAA

*** ERROR ***
RECORD NOT FOUND FOR WA 305HAA

ENTER WAN & WACODE (RETURN IF DONE)
NNNAAAA
3005HAA

WA = 3005HAA FOUND. RECORD NO. = 125

******************************************************************************
*** UPDATE FOR FISCAL YEAR '84 ***
******************************************************************************

ENTER ETC HOURS > 300 ** BOGUS VALUES **
ENTER ETC MATERIAL / ODC > 2220 ** BOGUS **

TASK = H
HOURLY RATE = 33.33    DOLLAR RATE = 100.00    ** BOGUS **
NEW TOTAL DOLLAR ETC =  15454    ** BOGUS **
******************************************************************************

NEW EAC SPREAD HOURS= 998   NEW EAC SPREAD DOLLARS= 47500   BOGUS **
******************************************************************************

NORMAL SPREAD (Y - N) > Y ** Refer to section 4.1, the third example, for
                  an abnormal spread.

******************************************************************************
*** UPDATE FOR FISCAL YEAR '85 ***
******************************************************************************

ENTER ETC HOURS > 0 ** BOGUS **
ENTER ETC MATERIAL / ODC > 0 ** BOGUS **

TASK = H
HOURLY RATE = 44.44    DOLLAR RATE = 101.01    ** BOGUS **
NEW TOTAL DOLLAR ETC =  0    ** BOGUS **
******************************************************************************

NEW EAC SPREAD HOURS= 998   NEW EAC SPREAD DOLLARS= 47500   BOGUS **
******************************************************************************
8.4 QUICKIE HEADER UPDATE

The quickie header update allows the user to change the header data for all records in the Contract Analysis database that satisfy a set of criteria. For example, the user may retrieve for records of Task 'L', having a 'NO' in the Complete field, and having a Contractor of 'LTV'. All records having those field values will be changed to any desired values for selected data items, such as Status: 'AUT', and contractor as 'VOUGHT'. The following example illustrates the quickie header update option.
ENTER UPDATE DESIRED: (RETURN IF FINISHED)

1) DALLAS TAPE
2) BALANCE SHEET
3) ETC EAC-BUDGET
4) QUICKIE HEADER
5) EDIT TABLES
6) RE-SORT DATA BASE
7) BOOK ALL OUTPUTS
8) JOB ORDERS

ENTER OPTION # > 4

ENTER THE FIELD(S) AND VALUE(S) FOR THE ANALYSIS RECORDS TO BE MODIFIED. RETURN IF FINISHED.

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

1) DATE     2) STATUS     3) NOJOS
4) RNTM     5) SYSNUM     6) TITLE
7) MOD      8) CNT        9) REMARKS
10) NR      11) CR        12) RBK
13) PR      14) CONT      15) TASK
16) TASKAS  17) TASKSB    18) WAN
19) WACODE  20) COMPLETE  21) R.T.HRS
22) R.T.BOM 23) ACTBOM    24) TABLE
25) TOTHRS  26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15

ENTER VALUE > B

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

RECORD NO.  8 MATCH FOUND Note that at least one record must be located in the data base having the specified value(s).

ENTER FIELD TO BE MODIFIED AND ITS NEW VALUE.

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

1) DATE     2) STATUS     3) NOJOS
4) RNTM     5) SYSNUM     6) TITLE
7) MOD      8) CNT        9) REMARKS
10) NR      11) CR        12) RBK
13) PR      14) CONT      15) TASK
16) TASKAS  17) TASKSB    18) WAN
19) WACODE  20) COMPLETE  21) R.T.HRS
22) R.T.BOM 23) ACTBOM    24) TABLE
25) TOTHRS  26) TOTDOL

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 15
ENTER VALUE > Z

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > 2

ENTER VALUE > FUT

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

RECORD NO.  9 MATCH FOUND AND MODIFIED
RECORD NO.  10 MATCH FOUND AND MODIFIED
RECORD NO.  11 MATCH FOUND AND MODIFIED
RECORD NO.  12 MATCH FOUND AND MODIFIED
RECORD NO.  13 MATCH FOUND AND MODIFIED
RECORD NO.  14 MATCH FOUND AND MODIFIED
RECORD NO.  15 MATCH FOUND AND MODIFIED

NO MATCH FOUND END OF FILE  This is the normal message indicating that
the end of the file has been reached.

ENTER THE FIELD(S) AND VALUE(S) FOR THE ANALYSIS
RECORDS TO BE MODIFIED. RETURN IF FINISHED.

THE FOLLOWING FIELD NAMES ARE AVAILABLE:

<table>
<thead>
<tr>
<th>Field</th>
<th>Field</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
<td>2) STATUS</td>
<td>NOJOS</td>
</tr>
<tr>
<td>4) RNTM</td>
<td>5) SYSNUM</td>
<td>6) TITLE</td>
</tr>
<tr>
<td>7) MOD</td>
<td>8) CNT</td>
<td>9) REMARKS</td>
</tr>
<tr>
<td>10) NR</td>
<td>11) CR</td>
<td>12) RBK</td>
</tr>
<tr>
<td>13) PR</td>
<td>14) CONT</td>
<td>15) TASK</td>
</tr>
<tr>
<td>16) TASKAS</td>
<td>17) TASKSB</td>
<td>18) WAN</td>
</tr>
<tr>
<td>19) WACODE</td>
<td>20) COMPLETE</td>
<td>21) R.T.HRS</td>
</tr>
<tr>
<td>22) R.T.BOM</td>
<td>23) ACTBOM</td>
<td>24) TABLE</td>
</tr>
<tr>
<td>25) TOCHR</td>
<td>26) TOTDOL</td>
<td></td>
</tr>
</tbody>
</table>

ENTER FIELD # OR (H) HELP (RETURN IF NO MORE) > ** return **

8.5 EDIT TABLES OPTION

The purpose of this section is to describe the edit tables option, option five (5) on the Contract Analysis update menu. This routine allows the user to update any of the following tables:
(1) Fee Table - Contains fees for each contract task, detailed to the subtask level.

(2) Rate Table - Contains rates for each contract task, listed by hours and M/ODC dollars.

(3) Sustaining Table - Contains for each contract task, detailed to subtask, a list of sustaining job orders and their corresponding fiscal year percents.

(4) Program number / Job order Table - Contains program numbers corresponding to every job order used by the Scout Project Office since 1972.

(5) Time Table - Contains beginning and ending dates for each contract task and each task's fixed contract value and base fee.

(6) Security Table - Contains user ID's of all users cleared to use the Contract Analysis data base along with clearance codes for all command options.

The update procedures for each of these tables are described in the following sections.

8.5.1 FEE TABLE UPDATE

The fee table update routine allows the user to edit the fee table manually (M) or through the Estimate at Completion automatic update option (E). If the user response is 'M', the fee is manually entered into the fee table. If the user response is 'E', the system prompts the user for the new EAC value (the total value) for that task, as follows:

'ENTER NEW EAC (In thousands NNNNN.NNN) >'. The system then computes a new value for the fee table from the contract value and the base fee stored in the time table for that particular task. If the task is not currently in the
time table, the update must be performed manually, and a message stating so will be displayed, as follows:

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > E

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 7.000 This is an example of a current fee value stored in the fee table by task. This is a BOGUS value.

IS THIS THE CORRECT ITEM (Y OR N) > Y

** TASK A ** MUST BE DONE MANUALLY!!!

The following examples illustrate the manual and EAC automatic methods of updating the fee table for the Contract Analysis file.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

===========================================
(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 5

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE (2) RATE (3) SUSTAINING
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > 1

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > M

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 7.000 This is an example of a current fee value stored in the fee table by task. This is a BOGUS value.

IS THIS THE CORRECT ITEM (Y OR N) > N An 'N' response invokes a search for subsequent fee values for the desired task.
ENTER (M) MANUAL OR (E) EAC AUTOMATIC > M

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 7.000 ** BOGUS **

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW FEE

INN.NNNI

9.999

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > ** return **

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE (2) RATE (3) SUSTAINING
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > ** return **

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

===========================================

(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 5

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)

(1) FEE (2) RATE (3) SUSTAINING
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > 1

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > E

ENTER TASK (RETURN IF FINISHED) > A

TASK A FEE = 0.000 ** BOGUS **

IS THIS THE CORRECT ITEM (Y OR N) > N

TASK A FEE = 7.000 ** BOGUS **

IS THIS THE CORRECT ITEM (Y OR N) > N

ENTER (M) MANUAL OR (E) EAC AUTOMATIC > E

- page 95 -
8.5.2 RATE TABLE UPDATE

The rate table update option allows the user to change the rate table values for a particular task and fiscal year. Both the hour and dollar rates may be changed, but never deleted. Blank or zero entries indicate that the field is to remain unchanged. The following example illustrates this option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE   (2) RATE   (3) SUSTAINING
(4) PROG-JO (5) TIME   (6) SECURITY

ENTER OPTION # > 2
ENTER TASK (RETURN IF FINISHED) > A
TASK A FOUND
ENTER FISCAL YEAR TO BE CHANGED > 80
HOURS DOLLARS These values are examples of current values stored in the rate table. These are BOGUS values.
5.55 6.66

IS THIS THE CORRECT ITEM (Y OR N) > Y
ENTER NEW RATES
HOURS DOLLARS
7.77 8.88 BLANK FOR NO CHANGE

- page 96 -
ENTER FISCAL YEAR TO BE CHANGED > 80

HOURS DOLLARS
7.77  8.88 ** BOGUS **

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW RATES
HOURS DOLLARS
INNN.NNINNN.NNI BLANK FOR NO CHANGE
9.99

ENTER FISCAL YEAR TO BE CHANGED > 80

HOURS DOLLARS
7.77  9.99 ** BOGUS ** Note that 7.77 remains the same value.

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER NEW RATES
HOURS DOLLARS
INNN.NNINNN.NNI BLANK FOR NO CHANGE
** return **

ENTER FISCAL YEAR TO BE CHANGED > ** return **

ENTER TASK (RETURN IF FINISHED) > ** return **

8.5.3 SUSTAINING TABLE UPDATE

The sustaining table update option allows the user to change the sustaining table by task and job order. The user must retrieve the desired sustaining table record by entering the appropriate task and job order. The user may delete or modify the sustaining table record by revising the job order, the subtask, or the fiscal year percents. If the desired record is not found, the user may choose to make that job order a new entry into the sustaining table. The following example illustrates all possible options for the sustaining table update command.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE   (2) RATE   (3) SUSTAINING
(4) PROG-JO  (5) TIME  (6) SECURITY

- page 97 -
ENTER OPTION # > 3

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED

A E7195A

JOB ORDER E7195A FOR TASK A NOT FOUND

IS THIS TO BE A NEW ENTRY (Y OR N) > Y

ENTER NEW SUBTASK

A E7195A

TASK A    JOB = E7195A    SUBTASK = G

<table>
<thead>
<tr>
<th>77</th>
<th>78</th>
<th>79</th>
<th>80</th>
<th>81</th>
<th>82</th>
<th>83</th>
<th>84</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.000</td>
<td>99.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE THIS J.O. (REV OR DEL) > REV

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED

1. J.O.     2. SUBTASK     3. PERCENTS

1

ENTER NEW JOB ORDER

A E7196A

TASK A    JOB = E7196A    SUBTASK = G

<table>
<thead>
<tr>
<th>77</th>
<th>78</th>
<th>79</th>
<th>80</th>
<th>81</th>
<th>82</th>
<th>83</th>
<th>84</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.000</td>
<td>99.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED

1. J.O.     2. SUBTASK     3. PERCENTS

2

ENTER NEW SUBTASK

A E7196A

TASK A    JOB = E7196A    SUBTASK = 12

<table>
<thead>
<tr>
<th>77</th>
<th>78</th>
<th>79</th>
<th>80</th>
<th>81</th>
<th>82</th>
<th>83</th>
<th>84</th>
</tr>
</thead>
<tbody>
<tr>
<td>100.000</td>
<td>99.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>
ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED
1. J.O.  2. SUBTASK  3. PERCENTS
3

ENTER PERCENTAGE YEAR : BLANK ENTRIES WHEN COMPLETED
77, 78, 79, 80, 81, 82, 83, 84
78

ENTER PERCENT
100.000

ENTER PERCENTAGE YEAR : BLANK ENTRIES WHEN COMPLETED
77, 78, 79, 80, 81, 82, 83, 84
** return **

TASK A  JOB = E7196A  SUBTASK = 12
77 78 79 80 81 82 83 84
100.000 100.000 0.000 0.000 0.000 0.000 0.000 0.000

ENTER ITEM NUMBER TO BE MODIFIED - ZERO (0) WHEN FINISHED
1. J.O.  2. SUBTASK  3. PERCENTS
** return **

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED
I IENNNAI
A E7196A

TASK A  JOB = E7196A  SUBTASK = 12
77 78 79 80 81 82 83 84
100.000 100.000 0.000 0.000 0.000 0.000 0.000 0.000

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE THIS J.O. (REV OR DEL) > DEL

JOB ORDER E7196A FOR TASK A DELETED

ENTER TASK & J.O. DESIRED -- RETURN IF FINISHED
I IENNNAI
** return **

ENTER TASK TO BE UPDATED OR ALL >

No further user responses will be shown at this point. However, it should be noted that 'ENTER TASK TO BE UPDATED OR ALL >' will be described in detail in option 1 of section 8.8.1 of this document (rebuild job orders from sustaining table). Entering a carriage return at this prompt will return the user to the program main menu. If a change has been made to the
sustaining table, normal procedure dictates that the data base job orders be updated to reflect that change. Entering the task of the modified job orders will automatically incorporate that change into the data base.

8.5.4 PROGRAM NUMBER / JOB ORDER TABLE UPDATE

The program number / job order table update option allows the user to change records in the program number lookup table by job order. The user must retrieve the desired record by entering the appropriate job order, and may delete the entire record or modify the program number field. If the desired record is not found, the user may choose to make that job order a new entry into the program number lookup table. The following example illustrates this update option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE (2) RATE (3) SUSTAINING
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > 4

ENTER J.O. DESIRED -- RETURN IF FINISHED
IENNNAI
E9999V

J.O. E9999V NOT FOUND IN TABLE

ADD J.O. TO TABLE (ADD) OR CONTINUE NEXT J.O. (CONT) > ADD

ENTER PROGRAM NO.: BLANK TO DELETE ENTRY
IINNNNNNNNNNNNNNNNNNNNNNNNNNN
490000000000000000

ENTER J.O. DESIRED -- RETURN IF FINISHED
IENNNAI
E9999V

J.O. E9999V PROGNO = 490000000000000000

IS THIS THE CORRECT ITEM (Y OR N) > Y
The time table update option allows the user to change the time table values by task. The values include the starting and ending dates (month and year) for each task and the fixed contract value and fixed base fee for each task. It should be noted that both the fixed contract value and the fixed base fee are in units of thousands of dollars. The following example illustrates this option.

** BOGUS VALUES **

8.5.5 TIME TABLE UPDATE

The time table update option allows the user to change the time table values by task. The values include the starting and ending dates (month and year) for each task and the fixed contract value and fixed base fee for each task. It should be noted that both the fixed contract value and the fixed base fee are in units of thousands of dollars. The following example illustrates this option.

** BOGUS VALUES **

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE (2) RATE (3) SUSTAINING
(4) PROG-JO (5) TIME (6) SECURITY

ENTER OPTION # > 5

ENTER TASK (RETURN IF FINISHED) > A

TASK = A STARTING 10-76 ENDING 10-76 ** BOGUS VALUES **
FIXED CONTRACT VALUE = 1110.00 FIXED BASE FEE = 19.00

IS THIS THE CORRECT ITEM (Y OR N) > Y

ENTER RETURN OR ZERO (0) TO QUIT OR FINISH
ENTER (D) DATES OR (F) FIXED VALUES > D
ENTER (S) FOR STARTING OR (E) FOR ENDING > E
ENTER MONTH & YEAR
## ##
11 78
ENTER RETURN OR ZERO (0) TO QUIT OR FINISH
ENTER (D) DATES OR (F) FIXED VALUES > F
ENTER (C) CONTRACT OR (B) BASE FEE > B
ENTER FIXED BASE FEE NNNN.NN > 100.99
ENTER (C) CONTRACT OR (B) BASE FEE > ** return **
ENTER TASK (RETURN IF FINISHED) > A

TASK = A STARTING 10-76 ENDING 11-78 ** BOGUS VALUES **
FIXED CONTRACT VALUE = 1110.00 FIXED BASE FEE = 100.99

IS THIS THE CORRECT ITEM (Y OR N) > N
ENTER TASK (RETURN IF FINISHED) > ** return **

8.5.6 SECURITY TABLE UPDATE

The security table update option allows the Financial Security Monitor to change the user security table. Only the Security Monitor has the clearance to access and modify the security table! Each record may be deleted or modified by ID code. If an ID code is not found in the table, the Security Monitor may choose to make that ID code a new entry into the security table.

For security reasons, the access control codes for each user are not defined within this document. The following example illustrates this update option.

TABLE SELECTION: (ENTER ZERO OR RETURN IF DONE)
(1) FEE        (2) RATE        (3) SUSTAINING
(4) PROG-JO    (5) TIME        (6) SECURITY

ENTER OPTION # > 6

ENTER USER ID (RETURN IF FINISHED) > CCC

- page 102 -
USER ID = CCC  *** NO PROCESSING DONE ***

ADD NEW USER OR QUIT  (A OR Q) > A

ENTER NAME FOR USER CCC
|   |   |
|   | TESTID

ENTER NEW CODES
| I | I | I | I | I | I | I |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 |

ENTER USER ID (RETURN IF FINISHED) > CCC

USERID = CCC  NAME = TESTID  CODES = 4 4 4 4 4 4 4

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE (R OR D) > R

ENTER NEW CODES
| I | I | I | I | I | I | I |
| 4 | 3 | 3 | 3 | 3 |

ENTER USER ID (RETURN IF FINISHED) > CCC

USERID = CCC  NAME = TESTID  CODES = 4 3 3 3 0 0 0

IS THIS THE CORRECT ITEM (Y OR N) > Y

REVISE OR DELETE (R OR D) > D

USERID CODE = CCC DELETED

ENTER USER ID (RETURN IF FINISHED) > ** return **

8.6 RESORT DATA BASE OPTION

This routine should be performed after the input or deletion of a record in the Contract Analysis data base. The balance sheet update routine should be run after this option has been run, and is discussed in section 8.2 of this document. This option requires no terminal input from the user, and when completed returns the user to the program main menu. The following illustrates the operation of the resort option.
8.7 BOOK ALL OUTPUTS

The book all output routine develops two (2) reports for output of the entire data base for the selected contract. The first output is in a listing format displaying the task, subtask, work authorization, system number, title, and RBK data fields of each record. A sample of this type of listing is contained in Appendix B-1 of this document. The second output prints all the data fields of each record, an example of which is contained in Appendix C-1 of this document. Each output is spooled individually. Due to their size both should be spooled to a line printer. See the following example:
8.8 JOB ORDERS UPDATE

This option allows the user to update job orders within the Financial
Contract Analysis database. The following menu displays the two update options:

ENTER UPDATE DESIRED: (RETURN IF FINISHED)

(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATA BASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 8

*** UPDATE JOBORDER OPTIONS ***

(1) REBUILD JOB ORDERS FROM SUSTAINING TABLE
(2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

Each of these options is discussed in detail in the following sections.

8.8.1 REBUILD JOB ORDERS FROM SUSTAINING TABLE

This option rebuilds the job orders for all records in the data base which have the value 'SUST' for the header field called 'TABLE'. The routine rebuilds all the job orders based upon the sustaining job order table previously discussed in section 8.5.3. The user may select to update a specific task or the entire data base simultaneously. This is the point at which the user enters when exiting the sustaining table update (section 8.5.3). Selection of the task (or all) will then update the financial data base with the new sustaining job orders and / or percents. It should be noted that each job order is verified in the program number table during the update of the first record only. The 'FOUND' message indicates that the job
order has been found in the program number table. If the job order is not found, the user will be prompted to enter the corresponding program number. Note that any program numbers entered will automatically be entered into the program number table (see section 8.5.4). The following example illustrates this update option for a specific task.

ENTER UPDATE DESIRED: (RETURN IF FINISHED)
===========================================
(1) DALLAS TAPE
(2) BALANCE SHEET
(3) ETC EAC-BUDGET
(4) QUICKIE HEADER
(5) EDIT TABLES
(6) RE-SORT DATABASE
(7) BOOK ALL OUTPUTS
(8) JOB ORDERS

ENTER OPTION # > 8

*** UPDATE JOBORDER OPTIONS ***
===========================================
(1) REBUILD JOB ORDERS FROM SUSTAINING TABLE
(2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

ENTER OPTION NUMBER > 1
ENTER TASK TO BE UPDATED OR ALL > A

RECORD NO. = 1
JOB ORDER E7000A FOUND.
JOB ORDER E7002A FOUND.
JOB ORDER E7198X FOUND.

FOR PROGRAM NO., ENTER BLANK AT FIRST POSITION
NNNNNNNNNNNNNNNN
49004172700840483

JOB ORDER E7002A FOUND.
JOB ORDER E7206A FOUND.
JOB ORDER E8002A FOUND.
JOB ORDER E8005A FOUND.

RECORD NO. = 2
RECORD NO. = 4

- page 107 -
8.8.2 UPDATE PROGRAM NUMBERS

This option allows the user to update a set of program numbers for a specific job order. Three options are available: update of all records in the database, update of only those records containing 'MANL' in the header field called 'TABLE', or update of only those records having 'SUST' in the header field called 'TABLE'. All three options operate identically, their only difference being which records are selected for update. The following example illustrates option 2—the update for manual records only.

*** UPDATE JOBORDER OPTIONS ***
---------------------------------
(1) REBUILD JOBORDERS FROM SUSTAINING TABLE
(2) UPDATE PROGRAM NUMBERS FOR EACH JOB ORDER

ENTER OPTION NUMBER > 2

*** UPDATE PROGRAM NUMBER OPTIONS ***
==========================================
(1) REBUILD JOBORDER PROGRAM NUMBERS (ALL)
(2) REBUILD JOBORDER PROGRAM NUMBERS (MANUAL)
(3) REBUILD JOBORDER PROGRAM NUMBERS (SUSTAIN)

ENTER OPTION NUMBER > 2

ENTER JOBORDER TO BE UPDATED (EX: E7207) > E7198

RECORD NO.= 23
RECORD NO.= 29
RECORD NO.= 36
RECORD NO.= 44
RECORD NO.= 49
RECORD NO.= 68
RECORD NO.= 96
RECORD NO.= 98
RECORD NO.= 101

ENTER JOBORDER TO BE UPDATED (EX: E7207) > ** return **
9.0  RATE TABLE OPTION

This option (option 6 on the main menu) allows the users that are cleared to access rates to use the rate table as a calculator. The user will be asked for the desired task, hours, and dollars to be computed. The total dollars and total hours will be displayed at the terminal screen based on any fiscal year set of rates for that contract. This option is very similar to the ratetable spread option during the input or revision of an analysis database record described in sections 4.1 and 5.0 of this document. The following example illustrates this option.

ENTER TASK > Z

TASK=Z

ENTER TOTAL ENGINEERING HOURS > 3 ** THESE ARE BOGUS VALUES **

ENTER MATERIAL - ODC DOLLARS > 333 ** BOGUS **

ENTER FISCAL YEAR OF RATES TO BE USED > 80 ** BOGUS **

****************************************************
TOTAL DOLLARS = 0 ** BOGUS **
TOTAL HOURS = 3 ** BOGUS **
****************************************************
APPENDICES
STATUS: CONTRACT NUMBER: NAS1-16200  TASK: R  WA:  COMPLETE: NO  ENGINEER:

<table>
<thead>
<tr>
<th>SUBTASK</th>
<th>MODS</th>
<th>WACODE</th>
<th>SYS NO</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>0.</td>
<td>, ,</td>
<td>269</td>
<td>TASK R - SPECIAL PROGRAMS, EAC BALANCE SHEET</td>
</tr>
<tr>
<td>2.</td>
<td>12.00</td>
<td>, ,</td>
<td>281</td>
<td>STORAGE &amp; ANNUAL INVENTORY OF TOOLS &amp; TEST EQUIPMENT AT HONEYWELL, INC.</td>
</tr>
<tr>
<td>3.</td>
<td>22.01</td>
<td>, ,</td>
<td>292</td>
<td>LAUNCH TEAM INCREASE - WFF SUPPORT TO VAFB BY R-22 PERSONNEL/LABOR</td>
</tr>
<tr>
<td>4.</td>
<td>22.02</td>
<td>, ,</td>
<td>293</td>
<td>WFF LAUNCH TEAM INCREASE - ITV</td>
</tr>
<tr>
<td>5.</td>
<td>49.00</td>
<td>, ,</td>
<td>319</td>
<td>QUALIFICATION AND FABRICATION OF THREE (3) ALGOL III MOTOR CASES</td>
</tr>
<tr>
<td>6.</td>
<td>50.00</td>
<td>, ,</td>
<td>320</td>
<td>S-218 VEHICLE FABRICATION, ENGINEERING AND QUALITY SUPPORT</td>
</tr>
<tr>
<td>7.</td>
<td>51.00</td>
<td>, ,</td>
<td>321</td>
<td>A-69 HEATSHIELD MODIFICATION, POLAR BEAR</td>
</tr>
<tr>
<td>8.</td>
<td>53.00</td>
<td>, ,</td>
<td>323</td>
<td>INSPECTION OF ANTARES IIA (X-259) LOADED CASES AND IGNITERS</td>
</tr>
<tr>
<td>9.</td>
<td>54.00</td>
<td>, ,</td>
<td>324</td>
<td>DYNAMIC ANALYSIS - POLAR BEAR</td>
</tr>
<tr>
<td>10.</td>
<td>55.00</td>
<td>, ,</td>
<td>325</td>
<td>REPLACEMENT OF LOST TOOL</td>
</tr>
<tr>
<td>11.</td>
<td>57.00</td>
<td>, ,</td>
<td>326</td>
<td>GENERAL COORDINATION (P86-2)</td>
</tr>
<tr>
<td>12.</td>
<td>58.00</td>
<td>, ,</td>
<td>327</td>
<td>RANGE SAFETY FOR S-209 - SOOS-1 MISSION</td>
</tr>
<tr>
<td>RBK</td>
<td>SUBTASK</td>
<td>WORK AUTH.</td>
<td>SYS #</td>
<td>TITLE</td>
</tr>
<tr>
<td>-----</td>
<td>---------</td>
<td>------------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td></td>
<td>3005</td>
<td>7</td>
<td>TASK B - MISSION INTEGRATION, EAC BALANCE SHEET</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAA</td>
<td>8</td>
<td>GENERAL COORDINATION</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BABA</td>
<td>9</td>
<td>TRAJECTORY STUDY - A.F. 83-1 MISSION</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BABBA</td>
<td>10</td>
<td>PRELIMINARY TRAJECTORY FOR AF-16 MISSION</td>
<td></td>
</tr>
<tr>
<td>85-15</td>
<td>3005BADCA</td>
<td>11</td>
<td>A-416 HEATSHIELD DESIGN, SOOS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BADDA</td>
<td>12</td>
<td>PAYLOAD UMBILICAL DESIGN, SM DL, S-206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BADDB</td>
<td>13</td>
<td>PAYLOAD UMBILICAL DESIGN, ITV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAEAA</td>
<td>14</td>
<td>VEHICLE INTERFACE DRAWING, SM DL, S-206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAEAB</td>
<td>15</td>
<td>VEHICLE INTERFACE DRAWING, SOOS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAECA</td>
<td>16</td>
<td>VEHICLE INTERFACE DRAWING, A.F. 83-1, S-205</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAFAA</td>
<td>17</td>
<td>GSE INTERFACE DRAWING, ITV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAFBA</td>
<td>18</td>
<td>GSE INTERFACE DRAWING, SM DL, S-206</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3005BAFCA</td>
<td>19</td>
<td>GSE INTERFACE DRAWING, A.F. 83-1, S-205</td>
<td></td>
</tr>
</tbody>
</table>
TITLE: REPLACE ANALOG METERS W/DIGITAL IN B/H (GSE WFF & VAFB)  MOD: , , ,  CONTRACTOR:VOOGHT
REMARKS: SYS: EGE. REF. DAL 2985, PA2484. POWER SUPPLY RACK 3.  NASA RESPONSIBLE ENGR:EEH
KTR RESPONSIBLE ENGR:SURRATT  RBK:81-47  PURCHASE REQUEST:  CONTRACT:NAS1-16200
TASK: R SUBTASK: 10.00  WORK AUTHORITY: 3008  WA CODE: KYAA  COMPLETED TASK: YES  TABLE: MANL
TOTAL AUT HOURS: 124  TOTAL AUT DOLLARS: $ 4976  FEE: 7.800%

<table>
<thead>
<tr>
<th>JOB</th>
<th>ORDER SUB</th>
<th>PROGRAM NUMBER</th>
<th>ALL %'S</th>
<th>82 %'S</th>
<th>83 %'S</th>
<th>84 %'S</th>
<th>85 %'S</th>
<th>86 %'S</th>
<th>87 %'S</th>
<th>88 %'S</th>
<th>89 %'S</th>
</tr>
</thead>
<tbody>
<tr>
<td>E80020</td>
<td>4902268880000493</td>
<td>50.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E80050</td>
<td>4902280880000493</td>
<td>50.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MM/yr</th>
<th>CUM EAC</th>
<th>SPREAD</th>
<th>CUM ACTUALS</th>
<th>ESTIMATE AT COMPLETION (EAC)</th>
<th>SCHEDULE &amp; EAC SPREAD DEVIATIONS</th>
<th>% TIL PAST</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TOTAL HOURS</td>
<td>DOLLARS</td>
<td>TOTAL HOURS</td>
<td>DOLLARS</td>
<td>TOTAL HOURS</td>
<td>DOLLARS</td>
</tr>
<tr>
<td>FEB 82</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4976</td>
</tr>
<tr>
<td>MAR 82</td>
<td>21</td>
<td>829</td>
<td>52</td>
<td>2070</td>
<td>124</td>
<td>4976</td>
</tr>
<tr>
<td>APR 82</td>
<td>42</td>
<td>1658</td>
<td>82</td>
<td>2791</td>
<td>124</td>
<td>4976</td>
</tr>
<tr>
<td>MAY 82</td>
<td>63</td>
<td>2487</td>
<td>93</td>
<td>3057</td>
<td>124</td>
<td>4976</td>
</tr>
<tr>
<td>JUN 82</td>
<td>84</td>
<td>3316</td>
<td>93</td>
<td>3057</td>
<td>124</td>
<td>4976</td>
</tr>
<tr>
<td>JUL 82</td>
<td>105</td>
<td>4145</td>
<td>93</td>
<td>3057</td>
<td>124</td>
<td>4976</td>
</tr>
<tr>
<td>AUG 82</td>
<td>124</td>
<td>4976</td>
<td>108</td>
<td>3321</td>
<td>108</td>
<td>3321</td>
</tr>
</tbody>
</table>

TOTAL: 124 HOURS  $4976 DOLLARS
**CONTRACT - TASK - FEE TABLE**

<table>
<thead>
<tr>
<th>CONTRACT NUMBER</th>
<th>T</th>
<th>K</th>
<th>FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAS1-16200</td>
<td>A</td>
<td>ALL</td>
<td>**.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>B</td>
<td>ALL</td>
<td>**.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>C</td>
<td>ALL</td>
<td>0.600</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>D</td>
<td>ALL</td>
<td>**.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>E</td>
<td>ALL</td>
<td>6.060</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>F</td>
<td>ALL</td>
<td>**.060</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>G</td>
<td>ALL</td>
<td>**.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>H</td>
<td>ALL</td>
<td>**.060</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>J</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>K</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>L</td>
<td>ALL</td>
<td>**.020</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>M</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>N</td>
<td>ALL</td>
<td>**.061</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>P</td>
<td>ALL</td>
<td>**.010</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>R</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>S</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>T</td>
<td>ALL</td>
<td>-0.006</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>V</td>
<td>ALL</td>
<td>**.020</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>W</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>X</td>
<td>ALL</td>
<td>0.000</td>
</tr>
<tr>
<td>NAS1-16200</td>
<td>Y</td>
<td>ALL</td>
<td>0.000</td>
</tr>
</tbody>
</table>

**NOTE:** FEES IN THIS TABLE ARE EXAMPLE ENTRIES
RATE TABLE

NOTE: BUDGET DOLLARS = HRS X RATE + ODC.DOL X RATE

<table>
<thead>
<tr>
<th>T</th>
<th>FY '82</th>
<th>FY '83</th>
<th>FY '84</th>
<th>FY '85</th>
<th>FY '86</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>HRS DOL</td>
<td>HRS DOL</td>
<td>HRS DOL</td>
<td>HRS DOL</td>
<td>HRS DOL</td>
</tr>
<tr>
<td>A</td>
<td>11.1 111.10</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.00 111.10</td>
<td>11.01 111.10</td>
</tr>
<tr>
<td>B</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.00 111.10</td>
<td>11.11 111.10</td>
</tr>
<tr>
<td>C</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.01 111.10</td>
</tr>
<tr>
<td>D</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.11 111.1</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
</tr>
<tr>
<td>E</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>10.11 111.11</td>
<td>11.11 111.10</td>
<td>11.11 111.11</td>
</tr>
<tr>
<td>F</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>10.11 111.10</td>
<td>10.11 111.10</td>
<td>10.11 111.10</td>
</tr>
<tr>
<td>G</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>0.01 111.10</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
</tr>
<tr>
<td>H</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.10</td>
</tr>
<tr>
<td>I</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>J</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
</tr>
<tr>
<td>K</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>L</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.01 111.10</td>
</tr>
<tr>
<td>M</td>
<td>10.10 111.11</td>
<td>10.10 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.10</td>
<td>11.11 111.11</td>
</tr>
<tr>
<td>N</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
</tr>
<tr>
<td>O</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>P</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
<td>0.00 111.10</td>
</tr>
<tr>
<td>Q</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>R</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
</tr>
<tr>
<td>S</td>
<td>10.11 111.11</td>
<td>10.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
</tr>
<tr>
<td>T</td>
<td>11.10 111.10</td>
<td>11.11 111.10</td>
<td>11.11 111.10</td>
<td>11.01 111.10</td>
<td>11.01 111.10</td>
</tr>
<tr>
<td>U</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>V</td>
<td>11.11 111.10</td>
<td>11.10 111.10</td>
<td>11.11 111.11</td>
<td>11.11 111.11</td>
<td>11.01 111.11</td>
</tr>
<tr>
<td>W</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>X</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>Y</td>
<td>10.11 111.11</td>
<td>10.11 111.11</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
<tr>
<td>Z</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
<td>0.00 0.00</td>
</tr>
</tbody>
</table>

NOTE: RATEs IN THIS TABLE ARE EXAMPLE ENTRIES
### SUSTAINING COSTS TABLE

<table>
<thead>
<tr>
<th>JOB</th>
<th>SUB</th>
<th>ORDER TASK</th>
<th>8%</th>
<th>18%</th>
<th>18%</th>
<th>18%</th>
<th>18%</th>
</tr>
</thead>
<tbody>
<tr>
<td>E8213T</td>
<td>1</td>
<td>14.285</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8211T</td>
<td>1</td>
<td>14.285</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8212T</td>
<td>1</td>
<td>26.667</td>
<td>22.222</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8214T</td>
<td>1</td>
<td>20.000</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8217T</td>
<td>1</td>
<td>11.429</td>
<td>14.815</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8007T</td>
<td>1</td>
<td>5.715</td>
<td>7.408</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8210T</td>
<td>1</td>
<td>5.715</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8211T</td>
<td>1</td>
<td>14.285</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8213T</td>
<td>1</td>
<td>14.285</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8214T</td>
<td>1</td>
<td>20.000</td>
<td>18.518</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8217T</td>
<td>2</td>
<td>9.091</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8006Z</td>
<td>2</td>
<td>13.637</td>
<td>16.667</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8207Z</td>
<td>2</td>
<td>4.546</td>
<td>5.556</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8210T</td>
<td>2</td>
<td>4.546</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8211T</td>
<td>2</td>
<td>18.181</td>
<td>22.222</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8213T</td>
<td>2</td>
<td>18.181</td>
<td>22.222</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8214T</td>
<td>2</td>
<td>22.222</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8217T</td>
<td>2</td>
<td>9.091</td>
<td>0.000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E7002M</td>
<td>1</td>
<td>12.500</td>
<td>6.250</td>
<td>7.143</td>
<td>0.000</td>
<td>16.567</td>
<td>20.000</td>
</tr>
<tr>
<td>E8209M</td>
<td>1</td>
<td>6.250</td>
<td>3.125</td>
<td>3.571</td>
<td>0.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8208M</td>
<td>1</td>
<td>6.250</td>
<td>3.125</td>
<td>50.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E8207M</td>
<td>1</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8006M</td>
<td>6</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8005M</td>
<td>5</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8002M</td>
<td>7</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8001M</td>
<td>1</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8002M</td>
<td>5</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
<td>50.000</td>
</tr>
<tr>
<td>E8005M</td>
<td>4</td>
<td>26.667</td>
<td>26.667</td>
<td>28.571</td>
<td>33.333</td>
<td>28.572</td>
<td>0.000</td>
</tr>
<tr>
<td>E8002M</td>
<td>4</td>
<td>40.000</td>
<td>40.000</td>
<td>42.857</td>
<td>38.462</td>
<td>44.444</td>
<td>42.857</td>
</tr>
<tr>
<td>E7207M</td>
<td>4</td>
<td>6.667</td>
<td>6.667</td>
<td>7.143</td>
<td>7.143</td>
<td>7.692</td>
<td>0.000</td>
</tr>
<tr>
<td>E7208M</td>
<td>4</td>
<td>6.666</td>
<td>6.666</td>
<td>7.143</td>
<td>7.143</td>
<td>7.692</td>
<td>0.000</td>
</tr>
<tr>
<td>E7209M</td>
<td>4</td>
<td>6.667</td>
<td>6.667</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7210M</td>
<td>4</td>
<td>13.333</td>
<td>13.333</td>
<td>14.286</td>
<td>15.385</td>
<td>22.222</td>
<td>28.571</td>
</tr>
<tr>
<td>E8003M</td>
<td>3</td>
<td>26.667</td>
<td>26.667</td>
<td>28.571</td>
<td>33.333</td>
<td>28.572</td>
<td>0.000</td>
</tr>
<tr>
<td>E8004M</td>
<td>3</td>
<td>40.000</td>
<td>40.000</td>
<td>42.857</td>
<td>38.462</td>
<td>44.444</td>
<td>42.857</td>
</tr>
<tr>
<td>E7207M</td>
<td>3</td>
<td>6.667</td>
<td>6.667</td>
<td>7.143</td>
<td>7.143</td>
<td>7.692</td>
<td>0.000</td>
</tr>
<tr>
<td>E7208M</td>
<td>3</td>
<td>6.666</td>
<td>6.666</td>
<td>7.143</td>
<td>7.143</td>
<td>7.692</td>
<td>0.000</td>
</tr>
<tr>
<td>E7209M</td>
<td>3</td>
<td>6.667</td>
<td>6.667</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7210M</td>
<td>3</td>
<td>23.333</td>
<td>23.333</td>
<td>14.286</td>
<td>15.385</td>
<td>22.222</td>
<td>28.571</td>
</tr>
<tr>
<td>E8005M</td>
<td>1</td>
<td>33.333</td>
<td>20.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E8002M</td>
<td>1</td>
<td>25.000</td>
<td>12.500</td>
<td>14.286</td>
<td>0.000</td>
<td>33.333</td>
<td>50.000</td>
</tr>
<tr>
<td>E7207M</td>
<td>1</td>
<td>8.533</td>
<td>5.000</td>
<td>5.000</td>
<td>50.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
<tr>
<td>E7208M</td>
<td>1</td>
<td>8.534</td>
<td>5.000</td>
<td>5.000</td>
<td>50.000</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

SUSTAINING JOB ORDERS TABLE REPORT
<table>
<thead>
<tr>
<th>JOB</th>
<th>PROGRAM NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1244R</td>
<td>18006525900001400</td>
</tr>
<tr>
<td>1249A</td>
<td>18017500100001400</td>
</tr>
<tr>
<td>1250E</td>
<td>18017500200002400</td>
</tr>
<tr>
<td>1277R</td>
<td>18032510500003400</td>
</tr>
<tr>
<td>4144A</td>
<td>49002024400004400</td>
</tr>
<tr>
<td>4144B</td>
<td>49002024400004400</td>
</tr>
<tr>
<td>4144C</td>
<td>49002024400004400</td>
</tr>
<tr>
<td>4144D</td>
<td>49002024400004400</td>
</tr>
<tr>
<td>4144E</td>
<td>49002024400004400</td>
</tr>
<tr>
<td>6192A</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192C</td>
<td>4902158000000493</td>
</tr>
<tr>
<td>6192D</td>
<td>4902158000000493</td>
</tr>
<tr>
<td>6192E</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192F</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192G</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192H</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192I</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192J</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192J</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192L</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192M</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192N</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192O</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192P</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192Q</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192R</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192S</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192T</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192U</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192V</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192W</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192X</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192Y</td>
<td>4902256000000493</td>
</tr>
<tr>
<td>6192Z</td>
<td>4902256000000493</td>
</tr>
</tbody>
</table>

**PROGRAM NUMBERS TABLE REPORT**
TIME TABLE FOR ALL TASKS

<table>
<thead>
<tr>
<th>K</th>
<th>START</th>
<th>ENDING</th>
<th>FIXED VALUES (THOUSANDS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10-81</td>
<td>1-86</td>
<td>7805.00 701.96</td>
</tr>
<tr>
<td>B</td>
<td>10-81</td>
<td>1-86</td>
<td>358.00   32.20</td>
</tr>
<tr>
<td>C</td>
<td>10-81</td>
<td>1-86</td>
<td>344.00   30.94</td>
</tr>
<tr>
<td>D</td>
<td>10-81</td>
<td>1-86</td>
<td>833.00   74.92</td>
</tr>
<tr>
<td>E</td>
<td>10-81</td>
<td>1-86</td>
<td>2599.00  233.74</td>
</tr>
<tr>
<td>F</td>
<td>10-81</td>
<td>1-86</td>
<td>3061.00  275.30</td>
</tr>
<tr>
<td>G</td>
<td>10-81</td>
<td>1-86</td>
<td>1455.00  130.86</td>
</tr>
<tr>
<td>H</td>
<td>10-81</td>
<td>1-86</td>
<td>3926.00  353.09</td>
</tr>
<tr>
<td>I</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>J</td>
<td>10-81</td>
<td>1-86</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>K</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>L</td>
<td>10-81</td>
<td>1-86</td>
<td>1266.00  113.86</td>
</tr>
<tr>
<td>M</td>
<td>10-81</td>
<td>1-86</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>N</td>
<td>10-81</td>
<td>1-86</td>
<td>10421.00 937.23</td>
</tr>
<tr>
<td>O</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>P</td>
<td>10-81</td>
<td>1-86</td>
<td>754.00   67.81</td>
</tr>
<tr>
<td>Q</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>R</td>
<td>10-81</td>
<td>1-86</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>S</td>
<td>12-84</td>
<td>10-86</td>
<td>2400.00  0.00</td>
</tr>
<tr>
<td>T</td>
<td>10-81</td>
<td>1-86</td>
<td>314.00   28.24</td>
</tr>
<tr>
<td>U</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>V</td>
<td>10-81</td>
<td>1-86</td>
<td>999.00   89.85</td>
</tr>
<tr>
<td>W</td>
<td>10-81</td>
<td>1-86</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>X</td>
<td>10-81</td>
<td>1-86</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>Y</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
<tr>
<td>Z</td>
<td>0-</td>
<td>0-</td>
<td>0.00     0.00</td>
</tr>
</tbody>
</table>
### NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
**QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT**

**To:** PROCUREMENT DIVISION
**From:** ITT Aerospace and Defense Company

**HAMPTON, VIRGINIA**

**FG OAH 25750**

**DALLAS, TEXAS 75265**

---

<table>
<thead>
<tr>
<th>A. TYPE</th>
<th>B. CONTRACT NO. AND LATEST DEFINITIZED AMENDMENT NO.</th>
<th>C. FUND LIMITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. DESCRIPTION OF CONTRACT</th>
<th>C. SCOPE OF WORK</th>
<th>D. SIGNATURE OF AUTHORIZED CONTRACTOR</th>
<th>E. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F. SCOUT SYSTEMS MANAGEMENT</th>
<th>G. INVOICE NO. BILLED</th>
<th>H. TOTAL PYTS MCTD.</th>
</tr>
</thead>
</table>

---

<table>
<thead>
<tr>
<th>7. HOURS WORKED</th>
<th>8. ESTIMATED HOURS TO COMPLETE</th>
<th>9. ESTIMATED FINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>6. REPORTING CATEGORY</th>
<th>7. ACTUAL</th>
<th>8. EST.</th>
<th>9. BALANCE OF</th>
<th>10. TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>E. TASKS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** REFER TO APPENDIX E-3

FOR THE HOURLY DATA FORMATS.
### 2ND QUARTER 533 REPORT

**2ND QUARTER 533 REPORT**

**DATE:** 1 JANUARY 1984

**TO:** PRODUCTION DIVISION

**FROM:** LTG HERBERT AND DEFENSE COMMISSIONER

**SUBJECT:** PRODUCTION AND ADVANCED PROGRAMS DIV.

**P.O. BOX 223407**

**DALLAS, TEXAS 75265**

**A. DESCRIPTION OF CONTRACT**

<table>
<thead>
<tr>
<th>A. TYPE</th>
<th>B. CONTRACT NO.</th>
<th>C. SCOPE OF WORK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SCOUT SYSTEMS MANAGEMENT</td>
</tr>
</tbody>
</table>

**D. COSTS INCURRED**

<table>
<thead>
<tr>
<th>TASK</th>
<th>A.</th>
<th>B.</th>
<th>C.</th>
<th>D.</th>
<th>E.</th>
<th>F.</th>
<th>G.</th>
<th>H.</th>
<th>I.</th>
<th>J.</th>
<th>K.</th>
<th>L.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**E. ESTIMATED COST TO COMPLETE (DOLLARS IN THOUSANDS)**

<table>
<thead>
<tr>
<th>TASK</th>
<th>A.</th>
<th>B.</th>
<th>C.</th>
<th>D.</th>
<th>E.</th>
<th>F.</th>
<th>G.</th>
<th>H.</th>
<th>I.</th>
<th>J.</th>
<th>K.</th>
<th>L.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**F. INCENTIVE FEE**

<table>
<thead>
<tr>
<th>PROFIT</th>
<th>AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL FF:** 22040 322 22302 465 672 797 1082 1022 0 0 2189 1203 6900 35570 30183
<table>
<thead>
<tr>
<th>No.</th>
<th>Project No.</th>
<th>Type of Service</th>
<th>Award Date</th>
<th>Date of Performance</th>
<th>Completion Date</th>
<th>Contract Amount</th>
<th>Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The table above is a sample of the content that might be present on the page. The actual content may vary significantly due to the nature of the document.
### NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
### QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT

<table>
<thead>
<tr>
<th>PHASED DIVISION</th>
<th>UNIVERSITY RESEARCH CENTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARSHALL CENTER</td>
<td>HAMPTON, VIRGINIA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FROM</th>
<th>Vought Missiles and Advanced Programs Div</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.O. Box 229407</td>
<td>Dallas, Texas 75265</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. CONTRACT NUMBER</th>
<th>2. CONTRACT NO AND LATEST DEFINITIZED AMENDMENT NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-480</td>
<td>NASI-16200</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. CONTRACT VALUE</th>
<th>4. FUND LIMITATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>$</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. QUESTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. BILLING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7. REPORT FOR QUARTER BEGINNING</th>
<th>8. APPROVED BUDGET BUREAUs</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 1965</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9. INVOICE AMOUNTS BILLED</th>
<th>10. TOTAL PAYMENTS RECEIVED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>11. UNFINISHED ORDER TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

---

### TASKS

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>0270</td>
<td>2527</td>
<td>92797</td>
<td>2084</td>
<td>2084</td>
<td>2084</td>
<td>6248</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5759</td>
</tr>
<tr>
<td>6069</td>
<td>277</td>
<td>6346</td>
<td>260</td>
<td>150</td>
<td>1</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>3463</td>
<td>193</td>
<td>5656</td>
<td>229</td>
<td>374</td>
<td>703</td>
<td>230</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>800</td>
</tr>
<tr>
<td>396</td>
<td>323</td>
<td>4226</td>
<td>0</td>
<td>0</td>
<td>540</td>
<td>2150</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5627</td>
</tr>
<tr>
<td>4535</td>
<td>93</td>
<td>4355</td>
<td>614</td>
<td>321</td>
<td>321</td>
<td>2488</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1587</td>
</tr>
<tr>
<td>5550</td>
<td>1156</td>
<td>52116</td>
<td>605</td>
<td>904</td>
<td>904</td>
<td>3072</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3066</td>
</tr>
<tr>
<td>1882</td>
<td>537</td>
<td>16273</td>
<td>294</td>
<td>294</td>
<td>294</td>
<td>885</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>6137</td>
</tr>
<tr>
<td>6875</td>
<td>1188</td>
<td>72114</td>
<td>506</td>
<td>426</td>
<td>426</td>
<td>2567</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2556</td>
</tr>
<tr>
<td>2108</td>
<td>638</td>
<td>21736</td>
<td>429</td>
<td>496</td>
<td>496</td>
<td>1498</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4391</td>
</tr>
<tr>
<td>735</td>
<td>635</td>
<td>1368</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1308</td>
</tr>
<tr>
<td>780</td>
<td>780</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1645</td>
<td>428</td>
<td>16736</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>986</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>898</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL HOURS THRU G &amp; A</th>
<th>33044</th>
</tr>
</thead>
<tbody>
<tr>
<td>6059</td>
<td>339003</td>
</tr>
<tr>
<td>6091</td>
<td>5379</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>396939</td>
<td>396939</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL FPI</th>
<th>33044</th>
</tr>
</thead>
<tbody>
<tr>
<td>8059</td>
<td>339003</td>
</tr>
<tr>
<td>6091</td>
<td>5379</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>396939</td>
<td>396939</td>
</tr>
<tr>
<td><strong>A</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td><strong>1.</strong></td>
<td><strong>DESCRIPTION</strong></td>
</tr>
<tr>
<td><strong>2.</strong></td>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>3.</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>4.</strong></td>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>5.</strong></td>
<td><strong>D</strong></td>
</tr>
<tr>
<td><strong>6.</strong></td>
<td><strong>E</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
<td><strong>HOURS</strong></td>
</tr>
<tr>
<td><strong>G</strong></td>
<td><strong>ESTIMATED</strong></td>
</tr>
<tr>
<td><strong>H</strong></td>
<td><strong>MONTH</strong></td>
</tr>
<tr>
<td><strong>I</strong></td>
<td><strong>1-36</strong></td>
</tr>
<tr>
<td><strong>J</strong></td>
<td><strong>12345</strong></td>
</tr>
</tbody>
</table>

**Report for Quarter Ending: April 1985**

- **Contract No.:** NASI-16000
- **Contract Value:** $ 150,000
- **Billing:**
  - A Invoice Items Billed: $ 150,000
  - B Total Payments Received: $ 150,000

**Tasks:**
- **Total Hours Worked:**
  - A: 12345
  - B: 12345
  - C: 12345
  - D: 12345
  - E: 12345
- **Estimated Hrs Complete:**
  - F: 12345

**Total Contract:** 150,000

**Notes:**
- Individual task hours and estimated completion hours are listed for tracking purposes.
<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
<td>I</td>
<td>J</td>
</tr>
</tbody>
</table>

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**QUARTERLY CONTRACTOR FINANCIAL MANAGEMENT REPORT**

**DATE APPROVED**

**BUDGET BUREAU NO. 10-110**

**JULY 1985**

**PROJECT DIVISION**

MISSILE AND SPACE SYSTEMS

**HAMPTON, VIRGINIA**

**CONTRACTOR**

SCOUT SYSTEMS MANAGEMENT

**DALLAS, TEXAS 75235**

**CONTRACT NO.**

**PROJECT NO.**

**FUND LIMITATION**

**FUND LIMITATION**

**ORIGINAL SIGNED BY**

**INVOICE #S BILLED**

**TOTAL PAYMENTS**

**E 4**

**QUARTERLY REPORT FOR THE DOLLAR DATA FORMATS.**

**NOTE:**

**REFER TO APPENDIX E 2**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>H</td>
<td>I</td>
<td>J</td>
</tr>
</tbody>
</table>

**FOR THE DOLLAR DATA FORMATS.**
CONTRACT: NAS1-16200

POP 1 REPORT (FIRST HALF OF FISCAL YEAR)

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
THU, JUL 11 1985 09:19:45 PM
## Analysis File - POP 1 Output

### OSI File POP 85 - 1 (In Thousands of Dollars)

**Date Computed:** Thu, Jul 11 1985

<table>
<thead>
<tr>
<th>PROG.PROJ.</th>
<th>FY 84</th>
<th>FY 85</th>
<th>FY 86</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYS.CONTRACT</td>
<td>FY 84</td>
<td>FY 85</td>
<td>FY 86</td>
</tr>
<tr>
<td>NAS 1-16200 OBLIG.</td>
<td>490-400</td>
<td>490-483</td>
<td>490-492</td>
</tr>
<tr>
<td>563-493</td>
<td>29107</td>
<td>2252</td>
<td>592</td>
</tr>
<tr>
<td>COSTS</td>
<td>490-400</td>
<td>490-483</td>
<td>490-492</td>
</tr>
<tr>
<td>563-493</td>
<td>733</td>
<td>541</td>
<td>118</td>
</tr>
<tr>
<td>27624</td>
<td>1074</td>
<td>237</td>
<td>329</td>
</tr>
<tr>
<td>91</td>
<td>1134</td>
<td>345</td>
<td>417</td>
</tr>
<tr>
<td>UNCOSETED</td>
<td>2252</td>
<td>592</td>
<td>756</td>
</tr>
<tr>
<td>3163</td>
<td>3183</td>
<td>10534</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>4</td>
<td>5</td>
<td>19</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>20</td>
<td>54</td>
</tr>
<tr>
<td>220</td>
<td>220</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>29</td>
<td>29</td>
<td>55</td>
<td>0</td>
</tr>
<tr>
<td>924</td>
<td>1</td>
<td>925</td>
<td>74</td>
</tr>
<tr>
<td>3526</td>
<td>17</td>
<td>3543</td>
<td>1214</td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

POP 2 REPORT (SECOND HALF OF FISCAL YEAR)

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
THU, JUL 11 1985  08:33:11 PM
<table>
<thead>
<tr>
<th>PROG.PROJ.</th>
<th>ACTUAL FY 1985</th>
<th>PLANNED FY 1986</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYS.CONTRACT &amp; PRIOR</td>
<td>FY 84 THRU FY 85 JUNE JULY AUG SEP TOTAL</td>
<td>3RD 4TH FY 86 OCT NOV DEC JAN FEB MAR QTR QTR TOTAL FY 87 FY 88 GRAND TOTAL</td>
</tr>
<tr>
<td>NAS1-16200 OELIG.</td>
<td>490-400 490-483 490-492 490-493 563-493</td>
<td></td>
</tr>
<tr>
<td>QOSTS</td>
<td>29107 7351 1069 1060 1054 10534</td>
<td>1107 1039 2553 18 4717 1356 0 45714</td>
</tr>
<tr>
<td>490-400</td>
<td>733 105 18 18 18 159</td>
<td>49 41 130 220 13 0 1125</td>
</tr>
<tr>
<td>490-483</td>
<td>541 26 8 8 8 50</td>
<td>8 8 13 29 55 0 675</td>
</tr>
<tr>
<td>490-492</td>
<td>118 0</td>
<td>0 0 0 0 118</td>
</tr>
<tr>
<td>490-493</td>
<td>27624 3080 300 294 294 3968</td>
<td>304 293 327 1 923 74 0 32991</td>
</tr>
<tr>
<td>563-493</td>
<td>91 4140 743 740 734 6357</td>
<td>746 697 2083 17 3543 1214 0 11205</td>
</tr>
<tr>
<td>UNCOOSTED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR
PROGRAM REPORT
06 FISCAL YEARS 82-87 (ALL)

BASED ON EAC'S

ALL RECORDS

TASK(S) RT

REPORT WITH FEE

ALL PROGRAMS

J.O.: E8 ONLY, ALL VEHICLES

ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 09:17:57 AM
### ANALYSIS - COST SUMMARY REPORT

**FY TOTAL**  NAS1-16200  
**DATE COMPUTED:** WED, JUL 10 1985

<table>
<thead>
<tr>
<th>TASK</th>
<th>TOTAL COST</th>
<th>DOD 493</th>
<th>NAVY 492</th>
<th>FOREIGN REIMBURS. 483</th>
<th>NASA 400</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>1,912,789</td>
<td>1,908,538</td>
<td>1,255</td>
<td>2,996</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>491,423</td>
<td>316,777</td>
<td>116,431</td>
<td>58,215</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,404,212</strong></td>
<td><strong>2,225,315</strong></td>
<td><strong>117,686</strong></td>
<td><strong>0</strong></td>
<td><strong>61,211</strong></td>
</tr>
</tbody>
</table>

**R**

<table>
<thead>
<tr>
<th>TASK</th>
<th>TOTAL COST</th>
<th>DOD 493</th>
<th>NAVY 492</th>
<th>FOREIGN REIMBURS. 483</th>
<th>NASA 400</th>
</tr>
</thead>
<tbody>
<tr>
<td>RB</td>
<td>125,082</td>
<td>125,082</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RE</td>
<td>46,427</td>
<td>46,427</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG</td>
<td>25,446</td>
<td>25,446</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RH</td>
<td>88,050</td>
<td>88,050</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RJ</td>
<td>38,755</td>
<td>38,755</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RN</td>
<td>1,391,610</td>
<td>1,391,610</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RO</td>
<td>15,332</td>
<td>15,332</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RR</td>
<td>144,493</td>
<td>144,493</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RU</td>
<td>2,749</td>
<td>2,749</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RV</td>
<td>21,067</td>
<td>21,067</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RZ</td>
<td>13,778</td>
<td>9,527</td>
<td>1,255</td>
<td></td>
<td>2,996</td>
</tr>
<tr>
<td><strong>R TOTALS</strong></td>
<td><strong>1,912,789</strong></td>
<td><strong>1,908,538</strong></td>
<td><strong>1,255</strong></td>
<td><strong>0</strong></td>
<td><strong>2,996</strong></td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

COST REPORT BY FISCAL YEAR
SUB-JOBORDER REPORT
06 FISCAL YEARS 82-87 (ALL)

BASED ON EAC'S
ALL RECORDS
TASK(S) R T
REPORT WITH FEE
ALL PROGRAMS
J.O.: E8 ONLY, ALL VEHICLES
ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 09:19:44 AM

SUB-JOB ORDER COST REPORT
G-2
<table>
<thead>
<tr>
<th>TASK</th>
<th>TOTAL COST</th>
<th>DOD</th>
<th>NAVY</th>
<th>FOREIGN REIMBURS.</th>
<th>NASA</th>
</tr>
</thead>
<tbody>
<tr>
<td>R B</td>
<td>125,082</td>
<td>125,082</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R E</td>
<td>46,427</td>
<td>46,427</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R G</td>
<td>25,446</td>
<td>25,446</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R H</td>
<td>88,050</td>
<td>88,050</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R J</td>
<td>38,755</td>
<td>38,755</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R N</td>
<td>1,391,610</td>
<td>1,391,610</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R O</td>
<td>15,332</td>
<td>15,332</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R R</td>
<td>144,493</td>
<td>144,493</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R U</td>
<td>2,749</td>
<td>2,749</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R Y</td>
<td>21,067</td>
<td>21,067</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R Z</td>
<td>13,778</td>
<td>9,527</td>
<td>1,255</td>
<td></td>
<td>2,996</td>
</tr>
<tr>
<td>T T</td>
<td>374,992</td>
<td>316,777</td>
<td></td>
<td></td>
<td>58,215</td>
</tr>
<tr>
<td>T Z</td>
<td>116,431</td>
<td>116,431</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,404,212</td>
<td>2,225,315</td>
<td>117,686</td>
<td></td>
<td>61,211</td>
</tr>
</tbody>
</table>

**ANALYSIS - COST SUMMARY REPORT**

**FY TOTAL NAS1-16200**

**ACTUALS THRU MAY 1985**

**DATE COMPUTED: WED, JUL 10 1985**
ALL RECORDS
COST WITHOUT FEE
W.A. 3008 ONLY
TASK R ONLY
ALL PROGRAMS
COST REPORT FOR ALL JOBORDERS
ALL RECORDS
ALL RECORDS OPEN & CLOSED
**W. A. REPORT FOR CONTRACT: NASI-16200**

<table>
<thead>
<tr>
<th>W.A. CODE</th>
<th>TITLE</th>
<th>FY 82</th>
<th>FY 83</th>
<th>FY 84</th>
<th>FY 85</th>
<th>FY 86</th>
<th>FY 87</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBE</td>
<td>MODIFY &amp; TEST S-205, A.F. 83-1 (42-IN HEATSHIELD MOD DESIGN)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>12749</td>
</tr>
<tr>
<td>HAAA</td>
<td>MODIFY &amp; TEST S-205, A.F. 83-1 (VEHICLE MODS, TASK H)</td>
<td>880</td>
<td>17796</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>18676</td>
</tr>
<tr>
<td>HMAB</td>
<td>MODIFY &amp; TEST S-205, A.F. 83-1 (A-519 42-IN HEATSHIELD MODIFICATION)</td>
<td>126</td>
<td>92857</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>92983</td>
</tr>
<tr>
<td>NFA</td>
<td>LAUNCH TEAM INCREASE - WFF SUPPORT TO VAFB BY R-22 PERSONNEL/LABOR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>17098</td>
<td>2970</td>
<td>39997</td>
</tr>
<tr>
<td>NFB</td>
<td>WFF LAUNCH TEAM INCREASE - ITV</td>
<td>841</td>
<td>350040</td>
<td>412346</td>
<td>377550</td>
<td>87954</td>
<td>0</td>
<td>1228731</td>
</tr>
<tr>
<td>GSC</td>
<td>SCOUT STANDARD OPERATING PROCEDURES, IMPROVED SPIN BALANCE</td>
<td>4869</td>
<td>5640</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10509</td>
</tr>
<tr>
<td>EPAB</td>
<td>CASTOR IIA NOZZLE REWORK-S/N'S 806 809 811 813 815 816 818 819 820 &amp; 821</td>
<td>0</td>
<td>0</td>
<td>282</td>
<td>577</td>
<td>0</td>
<td>0</td>
<td>859</td>
</tr>
<tr>
<td>E8 0Z</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>0</td>
<td>0</td>
<td>859</td>
</tr>
<tr>
<td>E7206Z</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>10,000</td>
<td>0</td>
<td>0</td>
<td>859</td>
</tr>
<tr>
<td>NASA TOTAL</td>
<td>564</td>
<td>1154</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1718</td>
<td></td>
</tr>
<tr>
<td>W.A. TOTAL</td>
<td>2820</td>
<td>5770</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8590</td>
<td></td>
</tr>
<tr>
<td>GRAND TOTALS:</td>
<td>NASA TOTAL:</td>
<td>42916</td>
<td>2130</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>45046</td>
</tr>
<tr>
<td>W.A. TOTAL:</td>
<td>254253</td>
<td>771902</td>
<td>582175</td>
<td>465467</td>
<td>99132</td>
<td>0</td>
<td>2172929</td>
<td></td>
</tr>
</tbody>
</table>

**WA COST REPORT**

G-3A
CONTRACT: NAS1-16200

HOURLY REPORT BY FISCAL YEAR
PROGRAM REPORT
06 FISCAL YEARS 82-87 (ALL)

BASED ON ACTUALS

ALL RECORDS

TASK(S) M

REPORT WITHOUT FEE

PROGRAM NO: "***************400"

ALL JOB ORDERS

ONLY COMPLETED W.A.'S

DATE COMPUTED:
THU, JUL 11 1985  04:17:55 PM
## Analysis - Hourly Summary Report

**FY Total**: NAS1-16200  
**Actuals Thru**: May 1985  
**Date Computed**: Thu, Jul 11 1985

<table>
<thead>
<tr>
<th>Task</th>
<th>Total Hours</th>
<th>DOD</th>
<th>NAVY</th>
<th>Foreign Reimbs.</th>
<th>NASA</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>91</td>
<td>493</td>
<td>492</td>
<td>483</td>
<td>400</td>
</tr>
<tr>
<td>Total</td>
<td>91</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>91</td>
</tr>
</tbody>
</table>

**Program Hourly Report**

H-1A
CONTRACT: NAS1-16200

HOURLY REPORT BY FISCAL YEAR
SUB-JOBORDER REPORT
06 FISCAL YEARS 82-87 (ALL)

BASED ON ACTUALS

ALL RECORDS

TASK(S) M

REPORT WITHOUT FEE

PROGRAM NO: "***************400"

ALL JOB ORDERS

ONLY COMPLETED W.A.'S

DATE COMPUTED:
THU, JUL 11 1985 04:19:10 PM
<table>
<thead>
<tr>
<th>TASK</th>
<th>TOTAL HOURS</th>
<th>DOD</th>
<th>NAVY</th>
<th>FOREIGN REIMBURS.</th>
<th>NASA</th>
</tr>
</thead>
<tbody>
<tr>
<td>M M</td>
<td>91</td>
<td>493</td>
<td>492</td>
<td>483</td>
<td>400</td>
</tr>
<tr>
<td>TOTAL</td>
<td>91</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>91</td>
</tr>
</tbody>
</table>
ALL RECORDS

ALL W.A.

TASK R ONLY

PROGRAM NO. 493

HOUR REPORT FOR ALL JOBOARDERS

ALL RECORDS

ALL RECORDS OPEN & CLOSED

WA HOURLY REPORT

H-3
<table>
<thead>
<tr>
<th>W.A. CODE</th>
<th>TITLE</th>
<th>NASA TOTAL</th>
<th>W.A. TOTAL</th>
<th>FY 82</th>
<th>FY 83</th>
<th>FY 84</th>
<th>FY 85</th>
<th>FY 86</th>
<th>FY 87</th>
<th>TOTAL $</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBA</td>
<td>DYNAMIC RESPONSE ANALYSIS, SOOS SPACECRAFT</td>
<td>0</td>
<td>312</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>312</td>
</tr>
<tr>
<td>EYAA</td>
<td>D SECTION/FOURTH STAGE MOTOR, ATTACH SCREW ACCESS, SOOS</td>
<td>0</td>
<td>68</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>68</td>
</tr>
<tr>
<td>EEAA</td>
<td>ITV INTERFACE HARNESS AND ELECTRICAL EVALUATOR TEST</td>
<td>0</td>
<td>351</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>351</td>
</tr>
<tr>
<td>EPAA</td>
<td>ALTAA IIA MOTORS, TRANSFER S/N'S 34 &amp; 38 TO NRL (N/C FOR S/N 38)</td>
<td>0</td>
<td>38</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>38</td>
</tr>
<tr>
<td>HEAA</td>
<td>RECONFIGURATION OF TRANSMITTERS (VECTOR) FOR ITV</td>
<td>0</td>
<td>38</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>38</td>
</tr>
<tr>
<td>KYAA</td>
<td>REPLACE ANALOG METERS W/DIGITAL IN B/H (GSE WFF &amp; YAFB)</td>
<td>0</td>
<td>108</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>108</td>
</tr>
<tr>
<td>HEAB</td>
<td>RECONFIG PHASE VII VEH TO VIII CONFIG, S-199, S-204, S-205 &amp; S-207</td>
<td>0</td>
<td>884</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>884</td>
</tr>
<tr>
<td>EGAA</td>
<td>STORAGE &amp; ANNUAL INVENTORY OF TOOLS &amp; TEST EQUIPMENT AT HONEYWELL, INC.</td>
<td>0</td>
<td>12</td>
<td>0</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>22</td>
</tr>
<tr>
<td>EEAB</td>
<td>INSTL WFF RF COMMUNICATIONS LINK, ITV (PROC. POWER AMPLIFIERS, ETC.)</td>
<td>0</td>
<td>104</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>111</td>
</tr>
</tbody>
</table>

**Grand Totals:**

<table>
<thead>
<tr>
<th>NASA TOTAL</th>
<th>W.A. TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4204</td>
<td>7993</td>
</tr>
<tr>
<td>3296</td>
<td>131</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) 1 C T

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 09:14:04 AM

REGULAR PRORATION HOURLY REPORT
<table>
<thead>
<tr>
<th>CONTRACT NUMBER: MAS-16200</th>
<th>PRORATION OF HOURS</th>
<th>STATUS DATE: MAY 1980</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHASE</td>
<td>0</td>
<td>COMPUTED DATE: WED, JUL 10 1980</td>
</tr>
<tr>
<td>NUMBER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>317</td>
<td>655</td>
</tr>
<tr>
<td>T</td>
<td>0</td>
<td>799</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1081</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2850</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NL-0492</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td></td>
<td>655</td>
<td>799</td>
</tr>
<tr>
<td></td>
<td>1081</td>
<td>2850</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTRACT NUMBER: MAS-16200</th>
<th>PRORATION OF HOURS</th>
<th>STATUS DATE: MAY 1980</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHASE</td>
<td>0</td>
<td>COMPUTED DATE: WED, JUL 10 1980</td>
</tr>
<tr>
<td>NUMBER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>785</td>
<td>660</td>
</tr>
<tr>
<td>T</td>
<td>939</td>
<td>252</td>
</tr>
<tr>
<td></td>
<td>1210</td>
<td>1210</td>
</tr>
<tr>
<td></td>
<td>1461</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>503</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>3695</td>
<td>5,095</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td>939</td>
<td>0</td>
</tr>
<tr>
<td>NL-0492</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>939</td>
<td>785</td>
</tr>
<tr>
<td></td>
<td>660</td>
<td>252</td>
</tr>
<tr>
<td></td>
<td>1210</td>
<td>1210</td>
</tr>
<tr>
<td></td>
<td>1461</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>503</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>7138</td>
<td>9,988</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

SPECIAL-R PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) R

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985  09:13:14 AM
<table>
<thead>
<tr>
<th>PHASE</th>
<th>TOTAL (HOURS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V11</td>
<td>60</td>
</tr>
<tr>
<td>V11</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>TOTAL (HOURS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NASA</td>
<td>60</td>
</tr>
<tr>
<td>NAVY</td>
<td>60</td>
</tr>
<tr>
<td>MIL-AP</td>
<td>60</td>
</tr>
<tr>
<td>MIL-AP</td>
<td>60</td>
</tr>
<tr>
<td>TOTAL</td>
<td>60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TASKS/LH</th>
<th>201</th>
<th>202</th>
<th>203</th>
<th>206</th>
<th>HSEL</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
<th>SP</th>
<th>ENG</th>
<th>SUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-46</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-47</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-49</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-50</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-51</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-52</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-53</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-54</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-55</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>R-FUT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>UNIDENT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

| SUBTOTAL | 0    | 0    | 0    | 0    | 990  | 0| 115  | 0    | 689 | 0    | 736  | 0    | 0    | 4790 | 788 | 0    | 0    | 0    | 8116 | SUBTOTAL |
| MIL-0492 | 0    | 0    | 0    | 0    | 0    | 0| 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | MIL-0492 |

| TOTAL    | 0    | 0    | 0    | 0    | 990  | 0| 115  | 0    | 689 | 0    | 736  | 0    | 0    | 4790 | 788 | 0    | 0    | 0    | 8116 | TOTAL   |
CONTRACT: NAS1-16200

SUB-PRORATION OF HOURS

BASED ON ACTUALS

ALL RECORDS

TASK(S) A C T

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 09:12:06 AM
<table>
<thead>
<tr>
<th>Phase</th>
<th>Contract Number</th>
<th>NASA NAVY Flight Area</th>
<th>Flight Hours</th>
<th>NAVCEN SUP</th>
<th>SUBTOTAL</th>
<th>TOT-0092</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase I</td>
<td>A A</td>
<td>NASA NAVY Flight Area</td>
<td>783</td>
<td>48309</td>
<td>96611</td>
<td>96618</td>
<td>252</td>
</tr>
<tr>
<td>Phase II</td>
<td>C C</td>
<td>NASA NAVY Flight Area</td>
<td>783</td>
<td>48309</td>
<td>96611</td>
<td>96618</td>
<td>252</td>
</tr>
<tr>
<td>Phase III</td>
<td>T T</td>
<td>NASA NAVY Flight Area</td>
<td>783</td>
<td>48309</td>
<td>96611</td>
<td>96618</td>
<td>252</td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R J M E

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 09:10:53 AM

REGULAR PRORATION OF COSTS REPORT

J-1
### CONTRACT NUMBER: NASA-16200  PRORATION OF COSTS
### STATUS DATE: MAY 1985

#### PHASE VII TOT 142,717

<table>
<thead>
<tr>
<th>Phase</th>
<th>Total</th>
<th>NAS1-16200</th>
<th>PRORATION</th>
<th>OOSTS</th>
<th>STATUS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>30635</td>
<td>32456</td>
<td>2923</td>
<td>26236</td>
<td>92250</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>32095</td>
<td>32095</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>18432</td>
<td>18432</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>30635</td>
<td>0</td>
<td>32095</td>
<td>18432</td>
</tr>
</tbody>
</table>

---

### CONTRACT NUMBER: NASA-16200  PRORATION OF COSTS
### STATUS DATE: MAY 1985

#### PHASE VII TOT 142,717

<table>
<thead>
<tr>
<th>Phase</th>
<th>Total</th>
<th>NAS1-16200</th>
<th>PRORATION</th>
<th>OOSTS</th>
<th>STATUS</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>31681</td>
<td>2922</td>
<td>106807</td>
<td>5848</td>
<td>27946</td>
<td>64406</td>
</tr>
<tr>
<td>J</td>
<td>32095</td>
<td>32095</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>31041</td>
<td>33043</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>31681</td>
<td>0</td>
<td>32095</td>
<td>31041</td>
</tr>
</tbody>
</table>

---

**Note:** The table above shows the proration of costs for a contract with phase numbers and total costs. The costs are prorated across different phases, detailing the breakdown of costs and their associated status dates.
CONTRACT: NAS1-16200

SPECIAL-R PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:
WED, JUL 10 1985  09:09:42 AM
<table>
<thead>
<tr>
<th>PHASE</th>
<th>PROJECT</th>
<th>TASK/平原</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>MAN, ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-49</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-50</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-51</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-52</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-53</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-54</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-FUT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>UNIDENT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10431</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>PHASE</th>
<th>PROJECT</th>
<th>TASK/平原</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>MAN, ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>ENG, SUP</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-49</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-50</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-51</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-52</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-53</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-54</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>A-FUT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>UNIDENT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>10431</td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

SUB-PRORATION OF COSTS

BASED ON EAC'S

MANUAL RECORDS ONLY

TASK(S) R M J E

REPORT WITH FEE

ALL PROGRAMS

ALL JOB ORDERS

ONLY OPEN W.A.'S

DATE COMPUTED:

WED, JUL 10 1985 09:08:35 AM
## SUB-JOB ORDER PRORATION OF COSTS REPORT

### J-3A

<table>
<thead>
<tr>
<th>Sub-Job Order</th>
<th>Cost (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>J-3A</td>
<td>12,500</td>
</tr>
<tr>
<td>J-3B</td>
<td>15,000</td>
</tr>
<tr>
<td>J-3C</td>
<td>10,500</td>
</tr>
</tbody>
</table>

Total: 38,000
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>E G</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-15000(N)</td>
<td>17,356N</td>
<td>11,185N</td>
<td>15,405N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45,946N</td>
</tr>
<tr>
<td>(I)</td>
<td>11,571N</td>
<td>7,456N</td>
<td>10,807N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>29,834N</td>
</tr>
<tr>
<td>TOTAL</td>
<td>28,927N</td>
<td>18,641N</td>
<td>26,212N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75,780N</td>
</tr>
<tr>
<td><strong>G G</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-15000(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>669,883N</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9021</td>
</tr>
<tr>
<td>NASI-16200(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5,797N</td>
</tr>
<tr>
<td>(H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>599H</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,185H</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,941,271</td>
</tr>
<tr>
<td><strong>R G</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-16200(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>61,338N</td>
</tr>
<tr>
<td>(H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30,669H</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>57,602N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>149,609N</td>
</tr>
<tr>
<td>TOTAL -- G (H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,716,431</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,941,271</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4,499,120</td>
</tr>
<tr>
<td><strong>TOTAL -- I (H)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,217,771N</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>108,698N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,3871N</td>
</tr>
<tr>
<td>TOTAL -- I (I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(H)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,8871N</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,8871N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,330,356</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>E K</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-15000(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,576N</td>
</tr>
<tr>
<td>(I)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,2621</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,838</td>
</tr>
<tr>
<td>---</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>E G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45,046N</td>
</tr>
<tr>
<td>NAS1-15000(N)</td>
<td>(1)</td>
<td>17,356N</td>
<td>11,185N</td>
<td>15,405N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>45,946N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>11,371N</td>
<td>7,256N</td>
<td>10,807N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>28,927</td>
<td>18,461</td>
<td>26,212</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>75,759</td>
</tr>
<tr>
<td>G G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>652,033N</td>
</tr>
<tr>
<td>NAS1-15000(N)</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>669,033N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>9021</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9021</td>
</tr>
<tr>
<td>NAS1-16200(N)</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,041,48N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>5,797N</td>
<td>400,475N</td>
<td>674,400N</td>
<td>537,035N</td>
<td>178,934N</td>
<td></td>
<td></td>
<td>1,748,675N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>623,734N</td>
<td></td>
<td>904,890N</td>
<td>920,620N</td>
<td>920,623N</td>
<td></td>
<td></td>
<td>4,275,731</td>
</tr>
<tr>
<td>R G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAS1-16200(N)</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>10,608N</td>
<td>42,670N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>51,278N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>11,116N</td>
<td>42,670N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>51,278N</td>
</tr>
<tr>
<td>TOTAL -- G (N)</td>
<td>(1)</td>
<td>11,356N</td>
<td>11,185N</td>
<td>644,941N</td>
<td>465,227N</td>
<td>187,208N</td>
<td>674,400N</td>
<td>537,035N</td>
<td>2,716,438N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>11,116N</td>
<td>42,670N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>51,278N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>28,927</td>
<td>10,461</td>
<td>662,446</td>
<td>672,084</td>
<td>1,007,362</td>
<td>920,620</td>
<td>920,623</td>
<td>4,499,406</td>
</tr>
<tr>
<td>TOTAL -- I (N)</td>
<td>(1)</td>
<td>87,741N</td>
<td>395,183N</td>
<td>163,500N</td>
<td>153,030N</td>
<td>297,130N</td>
<td>120,287N</td>
<td></td>
<td>1,217,771N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>99,700N</td>
<td>8,998N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>108,698N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>87,741N</td>
<td>395,183N</td>
<td>163,500N</td>
<td>153,030N</td>
<td>297,130N</td>
<td>120,287N</td>
<td></td>
<td>1,330,356</td>
</tr>
<tr>
<td>TOTAL (See Attachment)</td>
<td>(1)</td>
<td>87,741N</td>
<td>395,183N</td>
<td>163,500N</td>
<td>153,030N</td>
<td>297,130N</td>
<td>120,287N</td>
<td></td>
<td>1,330,356</td>
</tr>
<tr>
<td>E K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAS1-15000(N)</td>
<td>(1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,576N</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>1,576N</td>
<td>1,262N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,838N</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,838N</td>
</tr>
<tr>
<td>Year</td>
<td>DOD Annual Costs (Thu, Jul 11 1985)</td>
<td>PAGE 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------</td>
<td>--------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-15000(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>17,356N</td>
<td>11,185N</td>
<td>15,405N</td>
<td>43,946N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td>11,5711</td>
<td>7,4561</td>
<td>10,8011</td>
<td>28,927</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>28,927</td>
<td>18,641</td>
<td>26,212</td>
<td>75,780</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-15000(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>9021</td>
<td>461,144N</td>
<td>178,416</td>
<td>583,588N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td>5,7961</td>
<td>11,5711</td>
<td>29,8341</td>
<td>1,941,27N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>636,234</td>
<td>625,510</td>
<td>768,411</td>
<td>4,215,13N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NASI-16200(N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>18,668N</td>
<td>42,610N</td>
<td>61,338N</td>
<td>313,380N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td>9,334H</td>
<td>95,221H</td>
<td>90,000H</td>
<td>149,609</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>28,921</td>
<td>137,831</td>
<td>151,338</td>
<td>468,989</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL -- G (N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>17,356N</td>
<td>11,185N</td>
<td>15,405N</td>
<td>178,416</td>
<td>583,588N</td>
<td>1,941,27N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td>11,5711</td>
<td>7,4561</td>
<td>10,8011</td>
<td>29,8341</td>
<td>1,941,27N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>28,927</td>
<td>18,641</td>
<td>26,212</td>
<td>75,780</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL -- I (N)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>87,741N</td>
<td>595,183N</td>
<td>163,500N</td>
<td>1,217,71N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(2)</td>
<td>99,701N</td>
<td>182,547N</td>
<td>153,930N</td>
<td>100,698N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>187,442N</td>
<td>777,730N</td>
<td>317,430N</td>
<td>201,396N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL -- (See Attachment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>87,741N</td>
<td>595,183N</td>
<td>163,500N</td>
<td>1,217,71N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,576N</td>
<td>1,576N</td>
<td>1,576N</td>
<td>1,576N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>2,838</td>
<td>2,838</td>
<td>2,838</td>
<td>2,838</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(See Attachment)
<table>
<thead>
<tr>
<th>TASK</th>
<th>AUTHOR.</th>
<th>AUTHOR.</th>
<th>BALANCE</th>
<th>BALANCE</th>
<th>BUDGETED</th>
<th>BUDGETED</th>
<th>FUTURE</th>
<th>FUTURE</th>
<th>TOTAL</th>
<th>TOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>111058</td>
<td>7135867</td>
<td>45</td>
<td>133</td>
<td>11103</td>
<td>7136000</td>
<td>0</td>
<td>0</td>
<td>11103</td>
<td>713600</td>
<td>7980902</td>
</tr>
<tr>
<td>B</td>
<td>6670</td>
<td>333517</td>
<td>30</td>
<td>4684</td>
<td>6700</td>
<td>338001</td>
<td>0</td>
<td>0</td>
<td>6700</td>
<td>338001</td>
<td>373778</td>
</tr>
<tr>
<td>C</td>
<td>6159</td>
<td>333441</td>
<td>661</td>
<td>37559</td>
<td>6800</td>
<td>371000</td>
<td>0</td>
<td>0</td>
<td>6800</td>
<td>371000</td>
<td>402917</td>
</tr>
<tr>
<td>D</td>
<td>10552</td>
<td>526772</td>
<td>4648</td>
<td>234228</td>
<td>15200</td>
<td>761000</td>
<td>0</td>
<td>0</td>
<td>15200</td>
<td>761000</td>
<td>850608</td>
</tr>
<tr>
<td>E</td>
<td>52492</td>
<td>2697701</td>
<td>2009</td>
<td>102301</td>
<td>54501</td>
<td>2800002</td>
<td>0</td>
<td>0</td>
<td>54501</td>
<td>2800002</td>
<td>2978166</td>
</tr>
<tr>
<td>F</td>
<td>61440</td>
<td>2982818</td>
<td>57</td>
<td>186</td>
<td>61497</td>
<td>2983004</td>
<td>0</td>
<td>0</td>
<td>61497</td>
<td>2983004</td>
<td>3336788</td>
</tr>
<tr>
<td>G</td>
<td>21636</td>
<td>1154877</td>
<td>68</td>
<td>1123</td>
<td>21704</td>
<td>1156000</td>
<td>0</td>
<td>0</td>
<td>21704</td>
<td>1156000</td>
<td>139145</td>
</tr>
<tr>
<td>H</td>
<td>79713</td>
<td>3485619</td>
<td>87</td>
<td>381</td>
<td>79800</td>
<td>3486000</td>
<td>0</td>
<td>0</td>
<td>79800</td>
<td>3486000</td>
<td>4021763</td>
</tr>
<tr>
<td>J</td>
<td>15028</td>
<td>1152845</td>
<td>472</td>
<td>93155</td>
<td>15500</td>
<td>1246000</td>
<td>0</td>
<td>0</td>
<td>15500</td>
<td>1246000</td>
<td>1343188</td>
</tr>
<tr>
<td>L</td>
<td>26089</td>
<td>878462</td>
<td>12</td>
<td>542</td>
<td>26101</td>
<td>879004</td>
<td>0</td>
<td>0</td>
<td>26101</td>
<td>879004</td>
<td>1080507</td>
</tr>
<tr>
<td>M</td>
<td>25076</td>
<td>2128726</td>
<td>1424</td>
<td>51274</td>
<td>26500</td>
<td>2180000</td>
<td>0</td>
<td>0</td>
<td>26500</td>
<td>2180000</td>
<td>2350040</td>
</tr>
<tr>
<td>N</td>
<td>1471</td>
<td>9219911</td>
<td>0</td>
<td>89</td>
<td>1471</td>
<td>9220000</td>
<td>0</td>
<td>0</td>
<td>1471</td>
<td>9220000</td>
<td>10516424</td>
</tr>
<tr>
<td>P</td>
<td>0</td>
<td>624448</td>
<td>0</td>
<td>552</td>
<td>0</td>
<td>625000</td>
<td>0</td>
<td>0</td>
<td>625000</td>
<td>731363</td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>24788</td>
<td>3723226</td>
<td>212</td>
<td>962774</td>
<td>25000</td>
<td>4686000</td>
<td>0</td>
<td>0</td>
<td>25000</td>
<td>4686000</td>
<td>5051508</td>
</tr>
<tr>
<td>S</td>
<td>16175</td>
<td>1135760</td>
<td>0</td>
<td>0</td>
<td>16175</td>
<td>1135760</td>
<td>0</td>
<td>0</td>
<td>16175</td>
<td>1135760</td>
<td>1135760</td>
</tr>
<tr>
<td>T</td>
<td>7510</td>
<td>538625</td>
<td>0</td>
<td>26</td>
<td>7510</td>
<td>538651</td>
<td>0</td>
<td>0</td>
<td>7510</td>
<td>538651</td>
<td>509101</td>
</tr>
<tr>
<td>V</td>
<td>19786</td>
<td>867799</td>
<td>17</td>
<td>24201</td>
<td>19803</td>
<td>892000</td>
<td>0</td>
<td>0</td>
<td>19803</td>
<td>892000</td>
<td>1041142</td>
</tr>
<tr>
<td>W</td>
<td>0</td>
<td>120000</td>
<td>0</td>
<td>480000</td>
<td>0</td>
<td>600000</td>
<td>0</td>
<td>0</td>
<td>600000</td>
<td>600000</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>0</td>
<td>27976</td>
<td>0</td>
<td>42024</td>
<td>0</td>
<td>70000</td>
<td>0</td>
<td>0</td>
<td>70000</td>
<td>70000</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 485623 39068590 9742 2035032 495365 41103422 0 0 495365 41103422 45713100
JUL. 10, 1985

TO: VC / PAUL GATES
FROM: NASA / D.C. MC CRACKEN

PLEASE REPORT ON THE STATUS AND MAKE THE NECESSARY CHANGES FOR THE FOLLOWING W.A.'S.

FORWARD COPIES OF THOSE WHICH ARE CLOSED.

<table>
<thead>
<tr>
<th>W.A. NUMBER</th>
<th>COMPLETE</th>
<th>ESTIMATED MONTH TO BE COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td>3005CBAD</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3005CBBF</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3005CDAG</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3005HAJ</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3005HBCF</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3007MLDF</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3007MLDJ</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3007MLFJ</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>3007MLFN</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

WA STATUS REPORT
## PROCESSING REPORT

**CONTRACT NAS1-16200 TASK H**

**FOR FY 85**

<table>
<thead>
<tr>
<th>WA CODE</th>
<th>VEH. NO.</th>
<th>VEH. COST</th>
<th>PERCENTAGE</th>
<th>SUST.</th>
<th>WA TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAE</td>
<td>7206</td>
<td>1122</td>
<td>0.359</td>
<td>450</td>
<td>1572.</td>
</tr>
<tr>
<td>HAJ</td>
<td>8209</td>
<td>132000</td>
<td>42.285</td>
<td>52947</td>
<td>184947.</td>
</tr>
<tr>
<td>HAN</td>
<td>7207</td>
<td>22093</td>
<td>7.077</td>
<td>8861</td>
<td>30954.</td>
</tr>
<tr>
<td>HAT</td>
<td>8212</td>
<td>32784</td>
<td>10.502</td>
<td>13151</td>
<td>45935.</td>
</tr>
<tr>
<td>HAV</td>
<td>8215</td>
<td>13462</td>
<td>4.312</td>
<td>5398</td>
<td>18860.</td>
</tr>
<tr>
<td>HBCF</td>
<td>8209</td>
<td>10278</td>
<td>3.292</td>
<td>4124</td>
<td>14402.</td>
</tr>
<tr>
<td>HBCF</td>
<td>8211</td>
<td>10278</td>
<td>3.292</td>
<td>4124</td>
<td>14402.</td>
</tr>
<tr>
<td>HBCF</td>
<td>8213</td>
<td>10278</td>
<td>3.292</td>
<td>4124</td>
<td>14402.</td>
</tr>
<tr>
<td>HBCF</td>
<td>8214</td>
<td>10278</td>
<td>3.292</td>
<td>4124</td>
<td>14402.</td>
</tr>
<tr>
<td>HBCF</td>
<td>8218</td>
<td>69597</td>
<td>22.295</td>
<td>27917</td>
<td>97514.</td>
</tr>
</tbody>
</table>

********************************************

**TOTAL COSTS**

|          | 312170   | 125220   | 437390    |

********************************************

### SUSTAINING COSTS

<table>
<thead>
<tr>
<th>VEH. NO.</th>
<th>HAA</th>
<th>HCAA</th>
<th>HCAC</th>
<th>HCAD</th>
<th>HQA</th>
<th>HQB</th>
</tr>
</thead>
<tbody>
<tr>
<td>7206</td>
<td>97</td>
<td>0</td>
<td>142</td>
<td>66</td>
<td>128</td>
<td>17</td>
</tr>
<tr>
<td>8209</td>
<td>11378</td>
<td>0</td>
<td>16684</td>
<td>7751</td>
<td>15085</td>
<td>2049</td>
</tr>
<tr>
<td>7207</td>
<td>1904</td>
<td>0</td>
<td>2792</td>
<td>1297</td>
<td>2525</td>
<td>343</td>
</tr>
<tr>
<td>8212</td>
<td>2826</td>
<td>0</td>
<td>4144</td>
<td>1925</td>
<td>3747</td>
<td>509</td>
</tr>
<tr>
<td>8215</td>
<td>1160</td>
<td>0</td>
<td>1701</td>
<td>790</td>
<td>1538</td>
<td>209</td>
</tr>
<tr>
<td>8209</td>
<td>886</td>
<td>0</td>
<td>1299</td>
<td>604</td>
<td>1175</td>
<td>160</td>
</tr>
<tr>
<td>8211</td>
<td>886</td>
<td>0</td>
<td>1299</td>
<td>604</td>
<td>1175</td>
<td>160</td>
</tr>
<tr>
<td>8213</td>
<td>886</td>
<td>0</td>
<td>1299</td>
<td>604</td>
<td>1175</td>
<td>160</td>
</tr>
<tr>
<td>8214</td>
<td>886</td>
<td>0</td>
<td>1299</td>
<td>604</td>
<td>1175</td>
<td>160</td>
</tr>
<tr>
<td>8218</td>
<td>5999</td>
<td>0</td>
<td>8797</td>
<td>4087</td>
<td>7954</td>
<td>1080</td>
</tr>
</tbody>
</table>

---

**TOTAL** | 26908 | 0    | 39456 | 18330 | 35676 | 4846
ACTUAL ODC DOLLARS

TASK A = 781602
TASK B = 32848
TASK C = 12859
TASK D = 11871
TASK E = 149493
TASK F = 74828
TASK G = 187830
TASK H = 213748
TASK J = 360217
TASK L = 17189
TASK M = 750894
TASK N = 5279304
TASK P = 346593
TASK R = 799207
TASK T = 173373
TASK V = 73709

----------------
TOTAL = 9265565

ACTUAL SUMMARY REPORT

0-1
### TASK SUMMARY REPORT

**Contract 16200**

**Date Computed:** 07/11/85

**Status Date:** May 85

**Dollars include all costs except fee.**

#### Table: Task Summary Report

<table>
<thead>
<tr>
<th>Task</th>
<th>Actuals Hours</th>
<th>Estimate-to-Complete Hours</th>
<th>Committed EAC Hours</th>
<th>Uncommitted EAC Hours</th>
<th>Authorized EAC Hours</th>
<th>$ Time Passed</th>
<th>$ Actuals/EAC Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>96345</td>
<td>604464</td>
<td>14713</td>
<td>1091023</td>
<td>111058</td>
<td>111103</td>
<td>110000</td>
</tr>
<tr>
<td>B</td>
<td>6670</td>
<td>333517</td>
<td>0</td>
<td>0</td>
<td>6670</td>
<td>333517</td>
<td>45</td>
</tr>
<tr>
<td>C</td>
<td>4295</td>
<td>217340</td>
<td>1846</td>
<td>116101</td>
<td>6159</td>
<td>333441</td>
<td>661</td>
</tr>
<tr>
<td>D</td>
<td>4226</td>
<td>205056</td>
<td>6326</td>
<td>321716</td>
<td>10532</td>
<td>526772</td>
<td>4648</td>
</tr>
<tr>
<td>E</td>
<td>48614</td>
<td>2416790</td>
<td>3878</td>
<td>280911</td>
<td>52492</td>
<td>2697701</td>
<td>2009</td>
</tr>
<tr>
<td>F</td>
<td>54506</td>
<td>2616145</td>
<td>6934</td>
<td>366673</td>
<td>61440</td>
<td>2982818</td>
<td>57</td>
</tr>
<tr>
<td>G</td>
<td>19754</td>
<td>1038219</td>
<td>1882</td>
<td>116658</td>
<td>21636</td>
<td>1154877</td>
<td>68</td>
</tr>
<tr>
<td>H</td>
<td>75427</td>
<td>3290960</td>
<td>4286</td>
<td>194659</td>
<td>79713</td>
<td>3485619</td>
<td>87</td>
</tr>
<tr>
<td>J</td>
<td>13849</td>
<td>1017837</td>
<td>1179</td>
<td>135008</td>
<td>15028</td>
<td>1152845</td>
<td>472</td>
</tr>
<tr>
<td>K</td>
<td>22533</td>
<td>737764</td>
<td>3556</td>
<td>140698</td>
<td>26089</td>
<td>878462</td>
<td>12</td>
</tr>
<tr>
<td>L</td>
<td>21658</td>
<td>1857076</td>
<td>3418</td>
<td>271650</td>
<td>25076</td>
<td>2128726</td>
<td>1424</td>
</tr>
<tr>
<td>N</td>
<td>1471</td>
<td>7809602</td>
<td>0</td>
<td>1410309</td>
<td>1471</td>
<td>9219911</td>
<td>0</td>
</tr>
<tr>
<td>R</td>
<td>0</td>
<td>512626</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>S</td>
<td>0</td>
<td>16175</td>
<td>116175</td>
<td>16175</td>
<td>1165760</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>T</td>
<td>7500</td>
<td>534651</td>
<td>10</td>
<td>0</td>
<td>3974</td>
<td>7510</td>
<td>538625</td>
</tr>
<tr>
<td>V</td>
<td>17574</td>
<td>767944</td>
<td>2212</td>
<td>99855</td>
<td>19786</td>
<td>867799</td>
<td>17</td>
</tr>
<tr>
<td>W</td>
<td>0</td>
<td>60000</td>
<td>0</td>
<td>0</td>
<td>120000</td>
<td>0</td>
<td>480000</td>
</tr>
<tr>
<td>X</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>27976</td>
<td>0</td>
<td>27976</td>
<td>0</td>
</tr>
</tbody>
</table>

**Totals:**

- Actuals Hours: 412845
- Estimate-to-Complete Hours: 31500484
- Committed EAC Hours: 72778
- Uncommitted EAC Hours: 7567906
- Authorized EAC Hours: 485623
- Total Hours: 39068390
- Total Dollars: 9742035032
- Total EAC Hours: 495365
- Total EAC Dollars: 41103422
- Total Hours EAC: 83.3
- Total Dollars EAC: 76.6
### W.A. SUMMARY FOR CONTRACT 16200

(DOLLARS INCLUDE ALL COSTS EXCEPT FEE)

**Status Date:** May 85  
**Date Computed:** 07/10/85

**Responsible Engineer:** CMW

<table>
<thead>
<tr>
<th>WAN Code</th>
<th>Subtask</th>
<th>Actuals Hours</th>
<th>Actuals Dollars</th>
<th>Estimate-to-Complete Hours</th>
<th>Estimate-to-Complete Dollars</th>
<th>EAC Hours</th>
<th>EAC Dollars</th>
<th>Schedule &amp; EAC Spread Deviations $ of EAC</th>
<th>$ of Aut</th>
<th>$ Time Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3008NFA</td>
<td>22</td>
<td>0</td>
<td>33067</td>
<td>0</td>
<td>6930</td>
<td>0</td>
<td>39997</td>
<td>0.00</td>
<td>82.67</td>
<td>0.00</td>
</tr>
<tr>
<td>3008NFB</td>
<td>22</td>
<td>339</td>
<td>1025506</td>
<td>0</td>
<td>205225</td>
<td>339</td>
<td>1228731</td>
<td>100.00</td>
<td>83.30</td>
<td>40.75</td>
</tr>
</tbody>
</table>

### W.A. SUMMARY FOR CONTRACT 16200

(DOLLARS INCLUDE ALL COSTS EXCEPT FEE)

**Status Date:** May 85  
**Date Computed:** 07/10/85

**Responsible Engineer:** DMF

<table>
<thead>
<tr>
<th>WAN Code</th>
<th>Subtask</th>
<th>Actuals Hours</th>
<th>Actuals Dollars</th>
<th>Estimate-to-Complete Hours</th>
<th>Estimate-to-Complete Dollars</th>
<th>EAC Hours</th>
<th>EAC Dollars</th>
<th>Schedule &amp; EAC Spread Deviations $ of EAC</th>
<th>$ of Aut</th>
<th>$ Time Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>3008EGAA</td>
<td>12</td>
<td>21</td>
<td>12491</td>
<td>0</td>
<td>8209</td>
<td>21</td>
<td>20700</td>
<td>100.00</td>
<td>60.34</td>
<td>105.00</td>
</tr>
</tbody>
</table>
### VARIANCE SUMMARY FOR CONTRACT 16200

**Dollars Include All Costs Except Fee**

**Status Date:** May 85  
**Date Computed:** 07/11/85

<table>
<thead>
<tr>
<th>TASK</th>
<th>CONTRACT VALUE HOURS</th>
<th>CONTRACT VALUE DOLLARS</th>
<th>COMMITTED EAC HOURS</th>
<th>COMMITTED EAC DOLLARS</th>
<th>EST. VARIANCE HOURS</th>
<th>EST. VARIANCE DOLLARS</th>
<th>% TIME PASSED</th>
<th>% VARIANCE/CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>115000</td>
<td>780000</td>
<td>111058</td>
<td>7135867</td>
<td>-3942</td>
<td>-669133</td>
<td>84.62</td>
<td>-3.4</td>
</tr>
<tr>
<td>B</td>
<td>6700</td>
<td>358000</td>
<td>6670</td>
<td>333517</td>
<td>-30</td>
<td>-24483</td>
<td>84.62</td>
<td>-0.4</td>
</tr>
<tr>
<td>C</td>
<td>6200</td>
<td>344000</td>
<td>6139</td>
<td>333441</td>
<td>-61</td>
<td>-10559</td>
<td>84.62</td>
<td>-1.0</td>
</tr>
<tr>
<td>D</td>
<td>16400</td>
<td>833000</td>
<td>10552</td>
<td>526772</td>
<td>-5848</td>
<td>-306228</td>
<td>84.62</td>
<td>-35.7</td>
</tr>
<tr>
<td>E</td>
<td>50700</td>
<td>2599000</td>
<td>52492</td>
<td>2697701</td>
<td>1792</td>
<td>98701</td>
<td>84.62</td>
<td>3.5</td>
</tr>
<tr>
<td>F</td>
<td>62300</td>
<td>3061000</td>
<td>61440</td>
<td>2982818</td>
<td>-860</td>
<td>-78182</td>
<td>84.62</td>
<td>-1.4</td>
</tr>
<tr>
<td>G</td>
<td>24200</td>
<td>1455000</td>
<td>21636</td>
<td>1154877</td>
<td>-2564</td>
<td>-300123</td>
<td>84.62</td>
<td>-10.6</td>
</tr>
<tr>
<td>H</td>
<td>83400</td>
<td>3926000</td>
<td>79713</td>
<td>3485619</td>
<td>-3687</td>
<td>-440381</td>
<td>84.62</td>
<td>-4.4</td>
</tr>
<tr>
<td>L</td>
<td>27200</td>
<td>1266000</td>
<td>26089</td>
<td>878452</td>
<td>-1111</td>
<td>-387538</td>
<td>84.62</td>
<td>-4.1</td>
</tr>
<tr>
<td>N</td>
<td>0</td>
<td>10421000</td>
<td>1471</td>
<td>9219911</td>
<td>1471</td>
<td>1201089</td>
<td>84.62</td>
<td>0.0</td>
</tr>
<tr>
<td>P</td>
<td>0</td>
<td>754000</td>
<td>0</td>
<td>624448</td>
<td>0</td>
<td>-129552</td>
<td>84.62</td>
<td>0.0</td>
</tr>
<tr>
<td>T</td>
<td>3000</td>
<td>314000</td>
<td>7510</td>
<td>538625</td>
<td>4510</td>
<td>224625</td>
<td>84.62</td>
<td>150.3</td>
</tr>
<tr>
<td>V</td>
<td>20700</td>
<td>999000</td>
<td>19786</td>
<td>867799</td>
<td>-914</td>
<td>-131201</td>
<td>84.62</td>
<td>-4.4</td>
</tr>
<tr>
<td>W</td>
<td>0</td>
<td>900000</td>
<td>0</td>
<td>120000</td>
<td>0</td>
<td>-780000</td>
<td>84.62</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**CPFE**

<table>
<thead>
<tr>
<th>TASK</th>
<th>CONTRACT VALUE HOURS</th>
<th>CONTRACT VALUE DOLLARS</th>
<th>COMMITTED EAC HOURS</th>
<th>COMMITTED EAC DOLLARS</th>
<th>EST. VARIANCE HOURS</th>
<th>EST. VARIANCE DOLLARS</th>
<th>% TIME PASSED</th>
<th>% VARIANCE/CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>15000</td>
<td>1428000</td>
<td>15028</td>
<td>1152845</td>
<td>28</td>
<td>-275155</td>
<td>84.62</td>
<td>0.2</td>
</tr>
<tr>
<td>M</td>
<td>9000</td>
<td>1100000</td>
<td>25076</td>
<td>2128726</td>
<td>16076</td>
<td>1028726</td>
<td>84.62</td>
<td>178.6</td>
</tr>
<tr>
<td>R</td>
<td>48000</td>
<td>5584000</td>
<td>24768</td>
<td>3723226</td>
<td>-23212</td>
<td>-1860774</td>
<td>84.62</td>
<td>-48.4</td>
</tr>
</tbody>
</table>

**Other**

<table>
<thead>
<tr>
<th>TASK</th>
<th>CONTRACT VALUE HOURS</th>
<th>CONTRACT VALUE DOLLARS</th>
<th>COMMITTED EAC HOURS</th>
<th>COMMITTED EAC DOLLARS</th>
<th>EST. VARIANCE HOURS</th>
<th>EST. VARIANCE DOLLARS</th>
<th>% TIME PASSED</th>
<th>% VARIANCE/CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>13038</td>
<td>2400000</td>
<td>16175</td>
<td>1135760</td>
<td>3137</td>
<td>-1264240</td>
<td>26.09</td>
<td>24.1</td>
</tr>
<tr>
<td>X</td>
<td>0</td>
<td>60000</td>
<td>0</td>
<td>27976</td>
<td>0</td>
<td>320024</td>
<td>84.62</td>
<td>0.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>500838</th>
<th>45607000</th>
<th>485623</th>
<th>39060390</th>
<th>-15215</th>
<th>-6538610</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0</td>
<td>-3.0</td>
<td>-14.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CONTRACT: NAS1-16200

MIN-MAX-YEAR REPORT BY FISCAL YEAR
DOLLARS AND HOURS REPORT

BASED ON EAC'S

ALL RECORDS

ALL TASKS

REPORT WITHOUT FEE

ALL PROGRAMS

ALL JOB ORDERS

ALL W.A.'S

DATE COMPUTED:
WED, JUL 10 1985 08:52:38 AM

YEARLY MIN-MAX REPORT

0-5
FIRST MONTH IN CONTRACT NAS1-16200 = MAR 1981
LAST MONTH IN CONTRACT NAS1-16200 = OCT 1986

### SUMMARY BY FISCAL YEAR

<table>
<thead>
<tr>
<th>YEAR</th>
<th>DOLLARS</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1982</td>
<td>$7,392,642</td>
<td>112,886</td>
</tr>
<tr>
<td>1983</td>
<td>$9,621,791</td>
<td>135,711</td>
</tr>
<tr>
<td>1984</td>
<td>$8,993,474</td>
<td>105,783</td>
</tr>
<tr>
<td>1985</td>
<td>$21,378,922</td>
<td>219,004</td>
</tr>
<tr>
<td>1986</td>
<td>$14,912,608</td>
<td>160,834</td>
</tr>
<tr>
<td>1987</td>
<td>$7,609,192</td>
<td>74,081</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$69,908,629</td>
<td>808,299</td>
</tr>
</tbody>
</table>

### SUMMARY BY CALENDAR YEAR

<table>
<thead>
<tr>
<th>YEAR</th>
<th>DOLLARS</th>
<th>HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1981</td>
<td>$968,260</td>
<td>15,943</td>
</tr>
<tr>
<td>1982</td>
<td>$8,673,086</td>
<td>130,855</td>
</tr>
<tr>
<td>1983</td>
<td>$9,451,873</td>
<td>130,915</td>
</tr>
<tr>
<td>1984</td>
<td>$8,929,627</td>
<td>98,368</td>
</tr>
<tr>
<td>1985</td>
<td>$34,018,400</td>
<td>357,697</td>
</tr>
<tr>
<td>1986</td>
<td>$7,867,383</td>
<td>74,491</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$69,908,629</td>
<td>808,299</td>
</tr>
</tbody>
</table>

YEARLY MIN-MAX REPORT

0-5A
End of Document