AD-A055 259 DAVID W TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CE--ETC F/G 15/5
DEPOT MAINTENANCE PLANNING AND PROGRAMMING SYSTEM (DMPPS). VOLU--ETC(U)
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REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER: DTNSRDC-78/026 moves	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle): DEPOT MAINTENANCE PLANNING AND PROGRAMMING SYSTEM (DMPPS). VOLUME 7. FEEDBACK SUBSYSTEM.	5. TYPE OF REPORT & PERIOD COVERED: Final rept. July 1974 - July 1977,
	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s): Michael J. Lamatrice	8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS: David W. Taylor Naval Ship Research and Development Center, Code 187 Bethesda, Maryland 20084	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 60000N 0[illegible] 1-1863-025 and 1-1870-001
11. CONTROLLING OFFICE NAME AND ADDRESS: Naval Sea Systems Command (NAVSEA 070T) Washington, D.C. 20362	12. REPORT DATE: June 1978
	13. NUMBER OF PAGES: 70
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office): 12 67 p.	15. SECURITY CLASS. (of this report): UNCLASSIFIED
	15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)

APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

DDC RECEIVED JUN 20 1978 A

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Depot Maintenance
Computer Systems
Ship Repair
Ship Alterations
Shipyard Scheduling
Shipyard Production Shops
SWBS

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The Depot Maintenance Planning and Programming System (DMPPS) is a large computer system developed over a period of two and a half years by the David W. Taylor Naval Ship Research and Development Center (DTNSRDC), Code 186, for the Naval Sea Systems Command (NAVSEA), Code 070T. The system was developed to project shipyard resource requirements (i.e., labor mandays and costs as-

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well as material costs) by shipyard production shop and by ship work breakdown structure (SWBS). It enables management to assess the impact on the shipyards and ship systems of:

Changes in depot-level maintenance/alterations policy;
Major changes in force levels and/or composition; and
Budgetary constraints.

DMPPS consists of a network of interdependent computer programs written in FORTRAN IV. It was developed at DTNSRDC using the CDC 6000 series computers and was subsequently converted for the IBM 360/370 series computers. It is now installed and operational at the NAVSEA 070 computer terminal (which accesses an IBM 370/168 computer). This document presents the IBM 360/370 version of the DMPPS program modules. The modules have been grouped into six subsystems. Each of Volumes 2-7 of this document describes, in detail, one of these subsystems. An executive summary of the entire DMPPS is presented in Volume 1. The content of the seven volumes is indicated as follows:

Volume 1 - Executive Summary
Volume 2 - Preprocessor Subsystem
Volume 3 - Alterations Subsystem
Volume 4 - Repair Subsystem
Volume 5 - Synthesizer Subsystem
Volume 6 - Report Generator Subsystem
Volume 7 - Feedback Subsystem

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ABSTRACT

The Depot Maintenance Planning and Programming System (DMPPS) is a large computer system developed over a period of two and a half years by the David W. Taylor Naval Ship Research and Development Center (DTNSRDC), Code 186 for the Naval Sea Systems Command (NAVSEA), Code 070T. The System was developed to project shipyard resource requirements (i.e., labor mandays and costs as well as material costs) by shipyard production shop and by ship work breakdown structure (SWBS). It enables management to assess the impact on the shipyards and ship systems of

Changes in depot-level maintenance/alterations policy
Major changes in force levels and/or composition
Budgetary constraints

DMPPS consists of a network of interdependent computer programs written in FORTRAN IV. It was developed at DTNSRDC using the CDC 6000 series computers and was subsequently converted for the IBM 360/370 series computers. It is now installed and operational at the NAVSEA 070 computer terminal (which accesses an IBM 370/168 computer). This document presents the IBM 360/370 version of the DMPPS program modules. The modules have been grouped into six subsystems. Each of Volumes 2-7 of this document describes, in detail, one of these subsystems. An executive summary of the entire DMPPS is presented in Volume 1. The content of the seven volumes is indicated as follows:

Volume 1 - Executive Summary
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Volume 4 - Repair Subsystem
Volume 5 - Synthesizer Subsystem
Volume 6 - Report Generator Subsystem
Volume 7 - Feedback Subsystem

7 FEEDBACK SUBSYSTEM

The shipyard feedback subsystem of the Depot Maintenance Planning Programming System (DMPPS) consists of two computer programs which process data on completed availabilities. The programs provide Depot Maintenance Planning Module (DMPM) profiles and shop vectors for repairs and alterations. Results obtained from the repair data may be used to update the mean values used in the repair data base. Results obtained from the alteration data may be used if the particular alterations are scheduled again.

Data from the shipyards are compiled by the Long Beach computer program 445 and sent on magnetic tape to DTNSRDC, Code 187, where the information is placed on a disk device. The file may have certain elements which are incompatible with FORTRAN programs and these incompatibilities are removed by a COBOL preprocessor program.

The program FDBK is run for selected groups of Customer Order Acceptance Records (COAR's) to obtain hard copy and/or punched cards for use in updating the data bases. The COAR groupings are selected to provide useful data base improvements, e.g., all repair COAR's for carrier types might be grouped. Alterations are reported by full job order number, and as such may be cross-referenced with departure reports to obtain the actual alteration identification numbers which appear in SAMIS.

A diagram of the subsystem is shown in Figure 7.0-1.

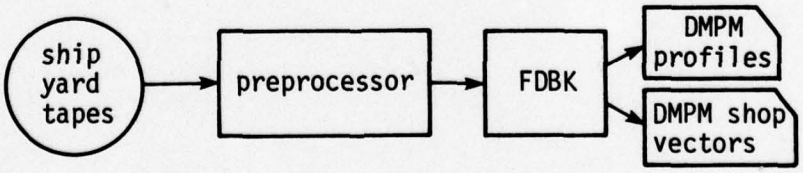

Figure 7.0-1 - Block Diagram of Feedback Subsystem

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7.1 PROGRAM FEEDBACK-PREPROCESSOR

7.1.1 DESCRIPTION

This program reads the shipyard shop data file and reformats it for use in program FDBK. This reformatting is necessary because certain entries in the data file may contain negative values as the result of transfer of funds. The negative values will be ignored by subsequent programs, since the transferred funds will have been entered elsewhere in the file. FORTRAN programs cannot read the negative sign superimposed by COBOL on the entries under consideration.

The COBOL preprocessor program reads each entry and, when a negative sign occurs, rewrites it as the leftmost character in the word; the numerical value remains right adjusted. If the third, fourth, and fifth characters of the COAR are nonnumeric, the program resets them to "000". The new file created in this manner, now compatible with FORTRAN read statements, is catalogued and copied to output.

7.1.2 RUN SET-UP

The following set-up is used to run the FEEDBACK-PREPROCESSOR program on the CDC 6700 computer:

```
USER,CM70000.
CHARGE,USER,XXXXXXXXXX.
ATTACH,TAPE1,FEEDBACKFILE,ID=CAAE.
ATTACH,PROG,FEEDBACKPREPROCESSOR,ID=CAAE.    OBJECT CODE OF PREPROCESSOR
REQUEST,TAPE7,*PF.
PROG.                                                EXECUTE PREPROCESSOR
CATALOG,TAPE7,FEEDBACKFILE,ID=USER,AC=XXXXXXXXXX.      NEW FEEDBACK FILE
PURGE,TAPE1.
REWIND,TAPE7.
COPYSBF,TAPE7,OUTPUT.
7/8/9      END  OF  RECORD
┌──────────────────────────────────────────────────┐
│                                                  │
│   Feedback Preprocessor card inputs              │
│                                                  │
└──────────────────────────────────────────────────┘
7/8/9      END  OF  RECORD
6/7/8/9    END  OF  FILE
```

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7.1.3 INPUT

7.1.3.1 Card Input

An input card which specifies the number of files to be processed is required in the following format:

Variable Name	Description	Field	Picture
NUMBER-OF-FILES	Number of files to be processed	1-2	99
FILLER	Filler	3-80	X(78)

The shipyard shop data file is assigned to unit 7 and is organized as shown in Figure 7.1-1.

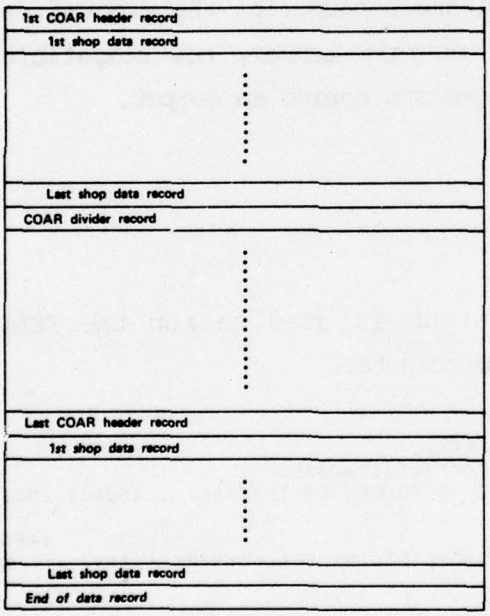


Figure 7.1-1 - Organization of Shipyard Shop Data File

7.1.3.2 Unit 7 - Shipyard Shop Data File

Data on completed shipyard work are grouped into bookkeeping units called COAR's (Customer Order Acceptance Records). These data are obtained from each yard and stored on the disk. The format of each record in the file is as follows:

INFILE-REC1 (Shop Data Record)

Variable Name	Description	Field	Picture
DATA1	First two characters of the COAR field	1-2	XX
AVAILABILITY	Next three characters of the COAR field	3-5	XXX
DATA2	SWBS and segment counter	6-13	X(8)
DATA3	Shop number	14-103*	XX
MANDAYS1	First character of mandays field		X
MANDAYS2	Next seven characters of mandays fields		S9(7)
MATERIAL1	First character of material expenditures field		X
MATERIAL2	Next seven characters of material expenditures field		S9(7)
TOTAL1	First character of total expenditures field		X
TOTAL2	Next seven characters of total expenditures field		S9(7)
FILLER	Filler		X(4)
DATA	Sequence number	104-108	X(5)

*This group occurs three times.

INFILE-REC2 (All Other Records)

Variable Name	Description	Field	Picture
WORK-CATEG	First two characters of the COAR	1-2	XX
HEAD-AVAIL-ABILITY-IN	Next three characters of the COAR	3-5	XXX
FILLER	Filler	6-108	X(103)

7.1.4 WORKING STORAGE

The following format is used for working storage:

Variable Name	Description	Picture
MINUSS VALUE "-"	Negative Sign	X
INDEXX	Loop Index	9
COUNTER	Counter for the number of files to be processed	99
NOTHING VALUE "000"	Three zero characters	XXX
TEMP-STORAGE1	Absolute value of mandays	9(7)
TEMP-STORAGE2	Absolute value of material expenditures	9(7)
TEMP-STORAGE3	Absolute value of total expenditures	9(7)

7.1.5 OUTPUT

The modified shipyard file is assigned to unit 1 with PICTURE X(108). When an internal counter exceeds the number of files specified on the input card, the number of files as well as the counter, is written to output. The format is the same as that used on unit 7. (See Figure 7.1-1.)

A sample of the output is given in Section 7.1.7.

7.1.6 PROGRAM LISTING

```
IDENTIFICATION DIVISION.                                          PRE   10
PROGRAM-ID.  FEEDBACK-PREPROCESSER                                PRE   20
ENVIRONMENT DIVISION.                                             PRE   30
CONFIGURATION SECTION.                                            PRE   40
INPUT-OUTPUT SECTION.                                             PRE   50
FILE-CONTROL.                                                     PRE   60
    SELECT INFILE ASSIGN TO TAPE1-FZ.                             PRE   70
    SELECT CARDFILE ASSIGN TO INPUT.                              PRE   80
    SELECT OUTFILE  ASSIGN TO TAPE7-FZ.                           PRE   90
DATA DIVISION.                                                    PRE  100
FILE SECTION.                                                     PRE  110
FD  INFILE                                                        PRE  120
    LABEL RECORDS ARE OMITTED                                     PRE  130
    RECORD CONTAINS 108 CHARACTERS                                PRE  140
    DATA RECORD IS INFILE-REC1 INFILE-REC2.                       PRE  150
01  INFILE-REC1.                                                 PRE  160
    03 DATA1                      PICTURE XX.                    PRE  170
    03 AVAILABILITY               PICTURE XXX.                   PRE  180
    03 DATA2                      PICTURE X(6).                  PRE  190
    03 DETAILS    OCCURS 3 TIMES.                                 PRE  200
        05 DATA3                  PICTURE XX.                    PRE  210
        05 MANDAYS1               PICTURE X.                     PRE  220
        05 MANDAYS2               PICTURE S9(7).                 PRE  230
        05 MATERIAL1              PICTURE X.                     PRE  240
        05 MATERIAL2              PICTURE S9(7).                 PRE  250
        05 TOTAL1                 PICTURE X.                     PRE  260
        05 TOTAL2                 PICTURE S9(7).                 PRE  270
        05 FILLER                 PICTURE X(4).                  PRE  280
    03 DATA4                      PICTURE X(5).                  PRE  290
01  INFILE-REC2.                                                 PRE  300
    03 WORK-CATEG                 PICTURE XX.                    PRE  310
    03 HEAD-AVAILABILITY-IN       PICTURE XXX.                   PRE  320
    03 FILLER                     PICTURE X(103).                PRE  330
FD  OUTFILE                                                       PRE  340
    LABEL RECORDS ARE OMITTED                                     PRE  350
    RECORD CONTAINS 108 CHARACTERS                                PRE  360
    DATA RECORD IS OUTFILE-REC.                                   PRE  370
01  OUTFILE-REC                  PICTURE X(108).                 PRE  380
FD  CARDFILE                                                      PRE  390
    LABEL RECORDS ARE OMITTED                                     PRE  400
    RECORD CONTAINS  80 CHARACTERS                                PRE  410
    DATA RECORD IS CARDFILE-REC.                                  PRE  420
01  CARDFILE-REC.                                                PRE  430
    03 NUMBER-OF-FILES            PICTURE 99.                    PRE  440
    03 FILLER                     PICTURE X(78).                 PRE  450
WORKING-STORAGE SECTION.                                          PRE  460
01  WORK-AREA1.                                                  PRE  470
    03 MINUSS VALUE "-"           PICTURE X.                     PRE  480
    03 INDEXX                     PICTURE 9.                     PRE  490
    03 COUNTER                    PICTURE 99.                    PRE  500
    03 NOTHING VALUE "000"        PICTURE XXX.                   PRE  510
    03 TEMP-STORAGE1              PICTURE 9(7).                  PRE  520
    03 TEMP-STORAGE2              PICTURE 9(7).                  PRE  530
    03 TEMP-STORAGE3              PICTURE 9(7).                  PRE  540
PROCEDURE DIVISION.                                               PRE  550
```

```
INITIALIZATION.                                                    PRE  560
    OPEN INPUT INFILE CARDFILE OUTPUT OUTFILE.                     PRE  570
    READ CARDFILE AT END DISPLAY " NO DATA CARD INPUT "            PRE  580
                         CLOSE INFILE CARDFILE OUTFILE             PRE  590
                         STOP RUN.                                 PRE  600
    MOVE 1 TO COUNTER.                                             PRE  610
    CLOSE CARDFILE.                                                PRE  620
PROCESS-HEADER.                                                    PRE  630
    READ INFILE AT END GO TO PARA-FOR-IF-TEST.                     PRE  640
WHERE-YOU-WERE.                                                    PRE  650
    IF HEAD-AVAILABILITY-IN NOT NUMERIC                            PRE  660
      DISPLAY WORK-CATEG HEAD-AVAILABILITY-IN " CHANGED TO "       PRE  670
       WORK-CATEG NOTHING                                          PRE  680
      MOVE NOTHING TO HEAD-AVAILABILITY-IN.                        PRE  690
    WRITE OUTFILE-REC FROM INFILE-REC2.                            PRE  700
READ-DATA.                                                         PRE  710
    READ INFILE AT END DISPLAY " UNEXPECTED END OF FILE "          PRE  720
                       CLOSE INFILE OUTFILE STOP RUN.              PRE  730
    PERFORM SWITCH-SIGN VARYING INDEXX FROM 1 BY 1                 PRE  740
      UNTIL INDEXX EQUAL  4.                                       PRE  750
    IF AVAILABILITY NOT NUMERIC MOVE NOTHING TO AVAILABILITY.      PRE  760
    WRITE OUTFILE-REC FROM INFILE-REC1.                            PRE  770
    IF MATERIAL2 (3) EQUAL "9999999" GO TO PROCESS-HEADER.         PRE  780
    GO TO READ-DATA.                                               PRE  790
SWITCH-SIGN.                                                       PRE  800
    MOVE MANDAYS2 (INDEXX) TO TEMP-STORAGE1.                       PRE  810
    MOVE MATERIAL2 (INDEXX) TO TEMP-STORAGE2.                      PRE  820
    MOVE TOTAL2 (INDEXX) TO TEMP-STORAGE3.                         PRE  830
    IF MANDAYS2 (INDEXX) NEGATIVE                                  PRE  840
      MOVE MINUSS TO MANDAYS1 (INDEXX).                            PRE  850
    IF MATERIAL2 (INDEXX) NEGATIVE                                 PRE  860
      MOVE MINUSS TO MATERIAL1 (INDEXX).                           PRE  870
    IF TOTAL2 (INDEXX) NEGATIVE                                    PRE  880
      MOVE MINUSS TO TOTAL1 (INDEXX).                              PRE  890
    MOVE TEMP-STORAGE1 TO MANDAYS2 (INDEXX).                       PRE  900
    MOVE TEMP-STORAGE2 TO MATERIAL2 (INDEXX).                      PRE  910
    MOVE TEMP-STORAGE3 TO TOTAL2 (INDEXX).                         PRE  920
PARA-FOR-IF-TEST.                                                  PRE  930
    ADD 1 TO COUNTER.                                              PRE  940
    DISPLAY "COUNTER" COUNTER                                      PRE  950
    DISPLAY "NUMBER OF FILES" NUMBER-OF-FILES                      PRE  960
    IF COUNTER GREATER THAN NUMBER-OF-FILES                        PRE  970
      CLOSE INFILE OUTFILE STOP RUN.                               PRE  980
    GO TO WHERE-YOU-WERE.                                          PRE  990
```

7.1.7 SAMPLE RUN

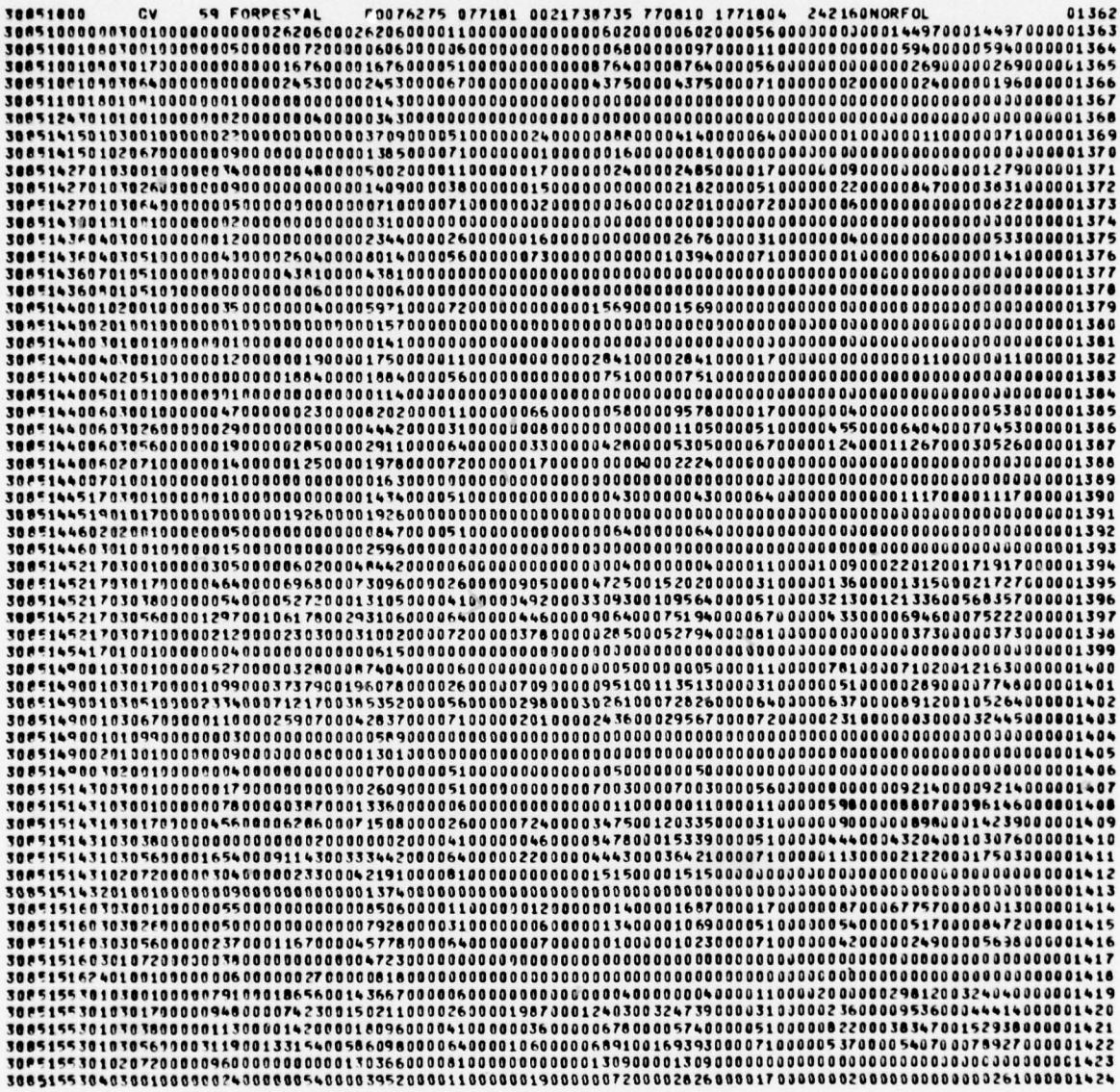
A tape file obtained from the Norfolk Naval Shipyard was used for the sample run. The file was generated at 800 BPI, with a blocking factor of 20. Since the tape was not compatible with the NOSBE Operating system of the CDC computers, a system utility routine, COPYBLK, was used to convert the tape to a standard NOSBE tape. A disk file was also made of the information on the tape.

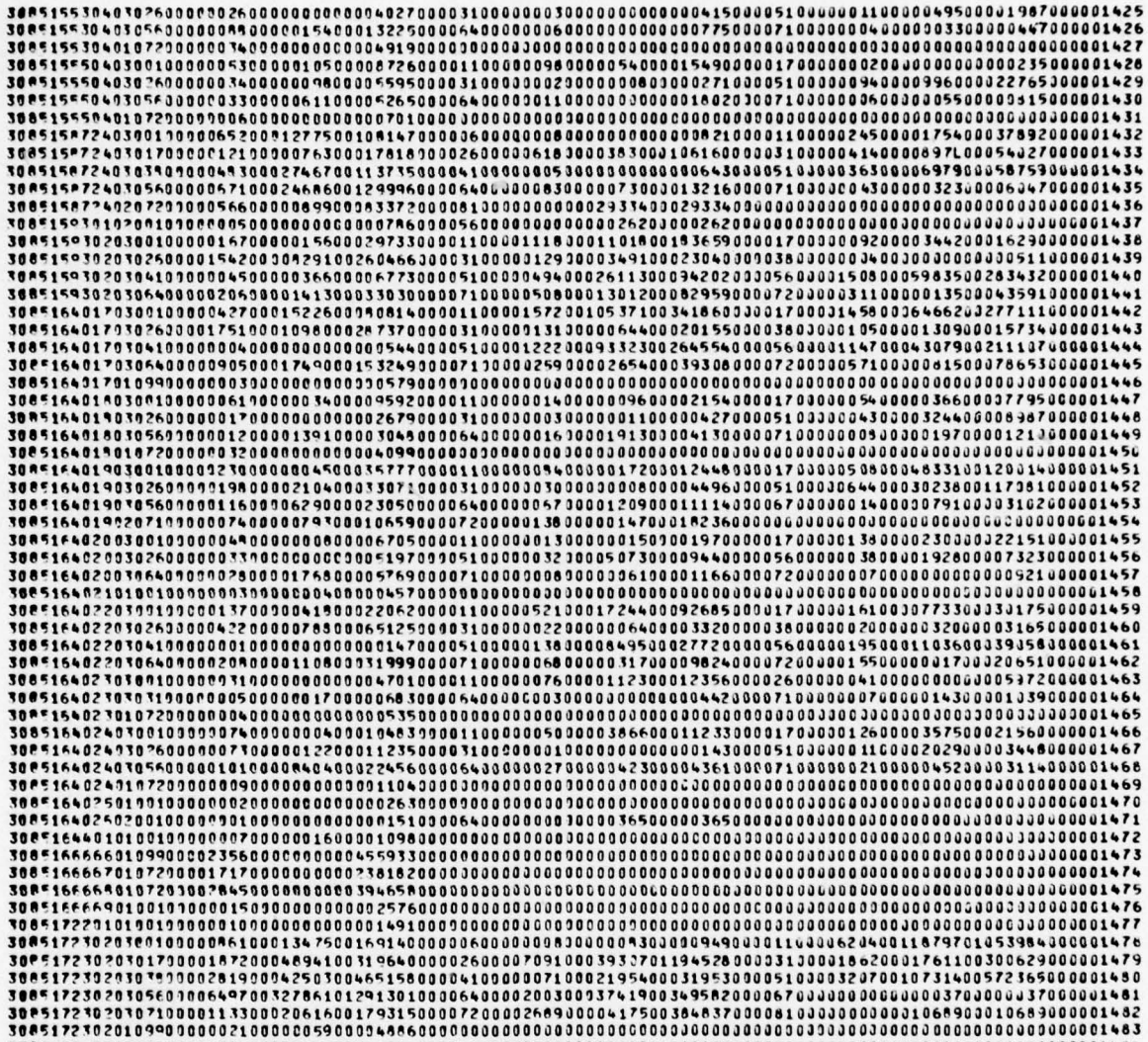
The following control card set-up is used for running COPYBLK:

```
USER,CM60000,MT1,MT1.
CHARGE,USER,XXXXXXXXXX.
VSN(TAPEIN=SLOTNN=L84451)                          YARD TAPE IN SLOT NN
REQUEST,TAPEIN,HD,NORING,S,EB.
VSN(TAPE2=SLOTNN=FDBK)                    STANDARD NOSBE TAPE IN SLOT NN
LABEL(TAPE2,L=FDBKDATE,W,D=HY,RING)
REQUEST,TAPE1,*PF.
BEGIN,COPYBLK,,,20,100,2160,TAPEIN,TAPE1.          COPY YARD TAPE TO DISK
CATALOG,TAPE1,YDDATE,ID=USER,AC=XXXXXXXXXX.
REWIND,TAPE1.
COPYSBF,TAPE1,OUTPUT.
REWIND,TAPE1.
COPYBF,TAPE1,TAPE2.                       COPY TO STANDARD NOSBE TAPE
6/7/8/9   END  OF  FILE
```

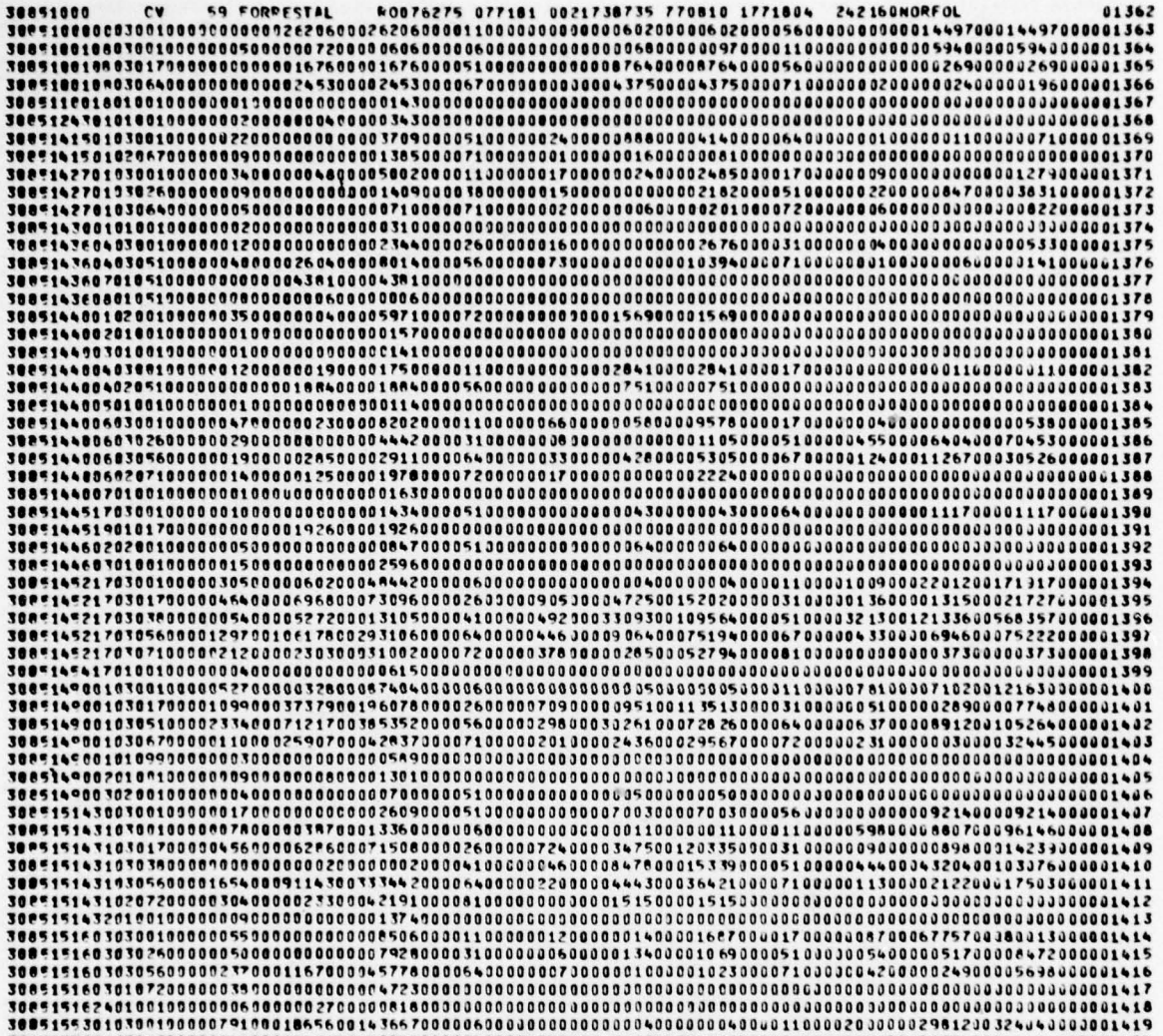
The file was subsequently run through the FEEDBACK-PREPROCESSOR program. A partial listing of the resulting file is given here.

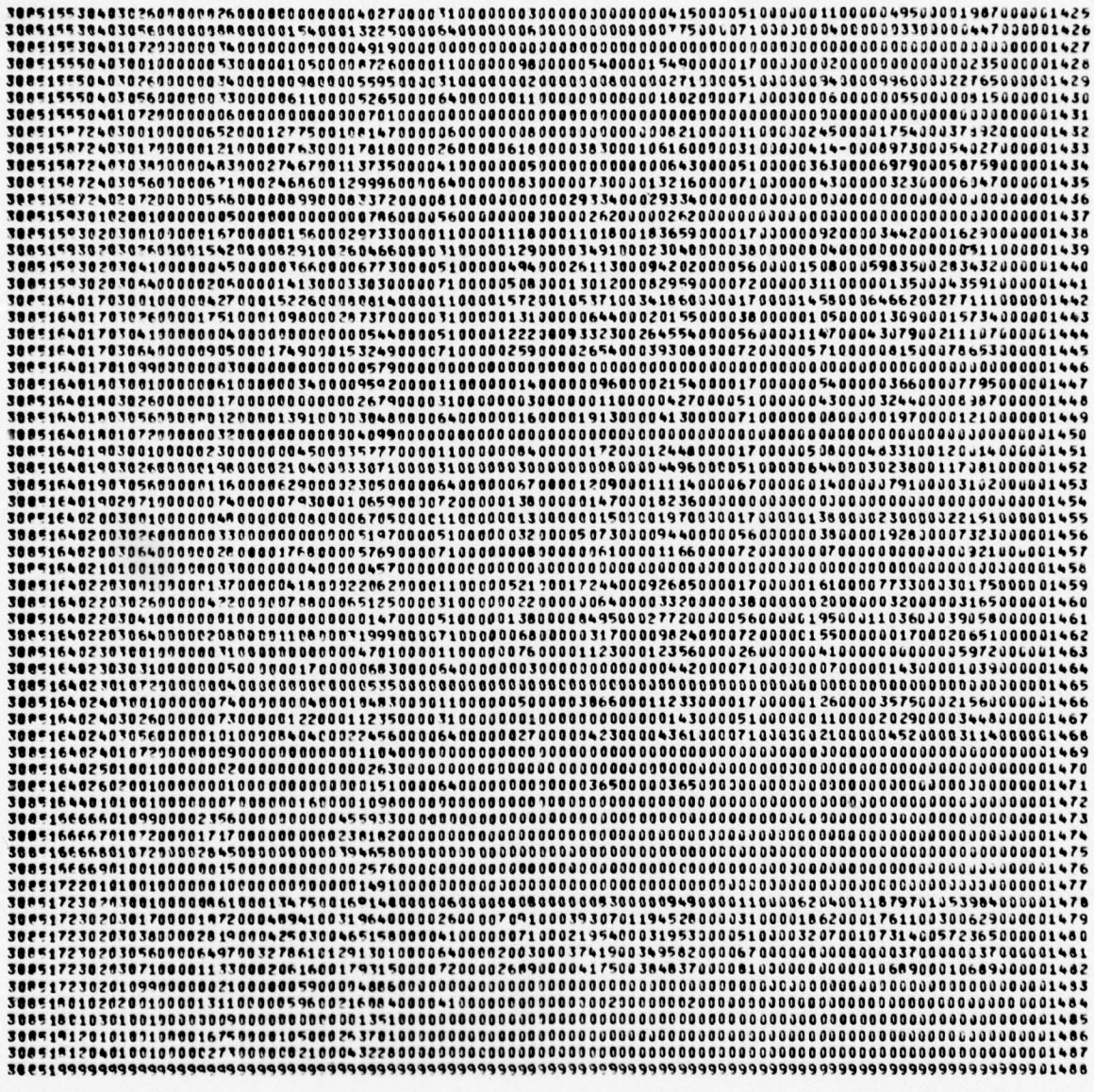
Unit 7 (Input) - Shipyard Shop Data File





Unit 1 (Output) - Modified Shipyard Shop Data File





7.2 PROGRAM FDBK

7.2.1 DESCRIPTION

This program processes shipyard feedback tapes which contain data sorted by COAR. The data can be compiled for individual COAR's or for sets of COAR's; a maximum of ten sets can be input. The SWBS data are grouped into DMPM's.

After the first record of the feedback file is read and the COAR header record is written, a flag is read to determine whether Ship Systems Index (SSI) numbers are on the file. If SSI numbers are used instead of Ship Work Breakdown Structure (SWBS) numbers, the SSI's are converted to the corresponding SWBS's. However, if SWBS numbers are on the file, and a SWBS is read which does not belong to a DMPM, a message is written on the "illegal SWBS" file.

Certain shop numbers may require adjustment. Shop number 68 is combined with shop number 65. Shops 6, 11, 17, 23, 26, 31, 36, 38, 41, 51, 56, 64, 65, 67, 71, 72, 81, 94, and 99 are considered unique shops; all others are combined into shop number 1. These shops may optionally be converted to standard functional shops.

Mandays are accumulated for each shop within a DMPM; material expenditures, total expenditures, and mandays are accumulated for each DMPM.

When a COAR divider record is encountered (MAT(1) = 99999999), the computations are written on intermediate files according to the COAR set to which they belong. When the entire feedback file has been read, each intermediate file is rewound, and the data are read and processed one file at a time. Reports on each COAR set are generated for each DMPM. These reports contain material expenditures, total labor expenditures, total mandays, and the ratio of the DMPM mandays to total mandays.

Other COAR set reports contain the ratio of mandays for each shop to total DMPM mandays, while other reports give the actual mandays for each shop of each DMPM. These shop reports can also be produced for each full job order number instead of for each DMPM. Figure 7.2-1 shows a hierarchical diagram of the FDBK program.

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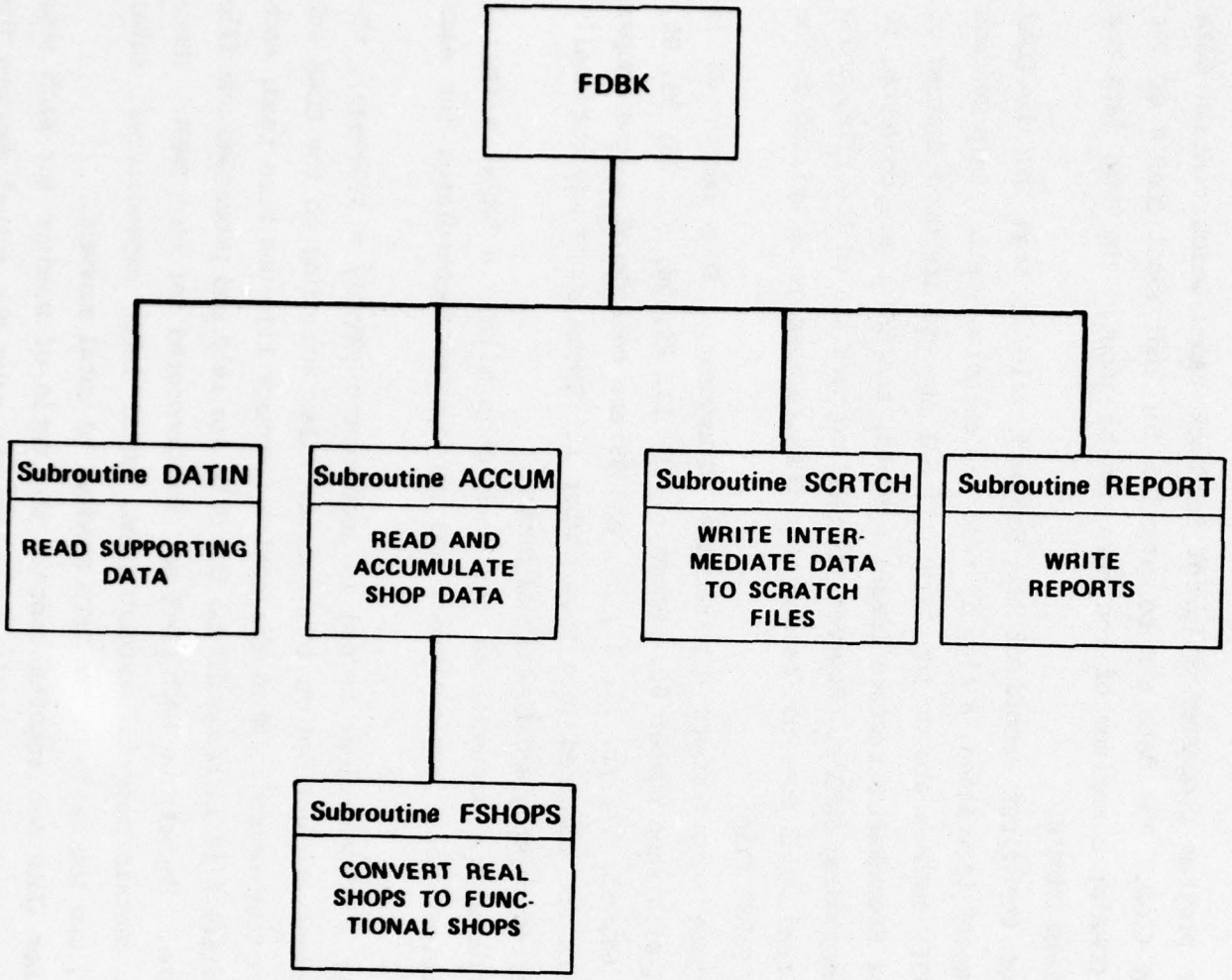

Figure 7.2-1 - Hierarchical Diagram of FDBK

Subroutine DATIN

This routine reads and processes bookkeeping information and program instructions. The user specifies which COAR sets are to be processed. The SSI numbers and the corresponding SWBS numbers are read and stored. The flag IFS, which indicates whether real shops are to be converted to functional shops, is read, and if the conversion option is not desired (IFS = 0), control returns to FDBK. Otherwise, the actual conversion data are read.

Subroutine SCRTCH

This routine writes intermediate shop calculations to scratch files. Each set of COAR calculations is written to the file corresponding to the input set or sets to which the COAR belongs.

Subroutine ACCUM

This routine accumulates intermediate results on manning and expenditures.

The flag denoting that the SSI designation is on the shipyard data file is read before the first COAR for each ship. The COAR header record is read and written to a file containing all header records of COAR's being processed. If all COAR's of the file are to be processed in a combined form, the number of sets of COAR's (NSETC) equals 99.

The COAR divider records are identified by testing whether the material expenditures of the first data segment, MAT(1), are equal to 99999999. COAR's not specified on the input selection cards are bypassed and SWBS numbers are checked. If the SWBS number is not included in the SWBS-to-DMPM conversion, the record is bypassed.

If SSI numbers are on the file, they are converted to SWBS numbers. If the functional shop option is selected (IFS = 1), the conversion routine FSHOPS is called.

Subtotals are calculated for shop and DMPM mandays and for DMPM material and labor expenditures.

Subroutine REPORT

This routine writes three types of reports for each selected set of COAR's: (1) the DMPM profile report, (2) the shop ratio report, and (3) the shop manning report.

Intermediate results are read from the scratch files, units 1-10, and totals are computed for shops and DMPM's for the selected sets of COAR's.

The vectors of the shop ratio report, consisting of the DMPM, the manning ratio for each shop, and the total mandays, may be punched onto cards if the user desires. These vectors can then be used to update the library of repair shop vectors.

Subroutine FSHOPS

This routine converts real shops to functional shops. The mapping varies among the yards and is input as described in Section 7.2.3.1. The actual conversion is performed by multiplying the mandays of a real shop by the proportion which the real shop contributes to a particular functional shop. This result is multiplied by the variable FACT; FACT = 1 when SSI numbers are not encountered or when SSI numbers other than 860 are encountered. When SSI = 860, FACT takes on the values of the proportions that SSI = 860 contributes to SWBS numbers 210, 830, 986, and 992.

7.2.2 RUN SET-UP

The following set-up is used to run the FDBK program on the CDC 6700 computer:

```
USER,CM120000.
CHARGE,USER,XXXXXXXXXX.
ATTACH,TAPE13,FEEDBACKFILE,ID=CAAE.
ATTACH,TAPE15,SSI,ID=CAAE.                  SSI-TO-SWBS CONVERSION
ATTACH,TAPE19,XDMPM,ID=CAAE.                SWBS-TO-DMPM CONVERSION
ATTACH,FDBK,ID=CAAE.                        OBJECT CODE OF FEEDBACK PROGRAM
FDBK.                                       EXECUTE PROGRAM
REWIND,TAPE14,TAPE16,TAPE17,TAPE18.
COPYSBF,TAPE14,OUTPUT.                      COAR HEADER RECORDS
COPYBF,TAPE16,OUTPUT.                       DMPM PROFILE REPORT
COPYBF,TAPE17,OUTPUT.                       SHOP RATIO REPORT
COPYBF,TAPE18,OUTPUT.                       SHOP MANNING REPORT
EXIT.                                       DUMP FILES AT ABNORMAL TERMINATION
REWIND,TAPE14,TAPE16,TAPE17,TAPE18.
COPYSBF,TAPE14,OUTPUT.
COPYBF,TAPE16,OUTPUT.
COPYBF,TAPE17,OUTPUT.
COPYBF,TAPE18,OUTPUT.
7/8/9       END  OF  RECORD
```

FDBK card inputs (unit 11)

```
7/8/9       END  OF  RECORD
6/7/8/9     END  OF  FILE
```

7.2.3 INPUT

Card inputs are made using unit 11. The formats for these cards are given in Section 7.2.3.1.

Unit 11 - Card inputs which (1) identify the number of sets of COAR's to be processed and the COAR numbers within each set, (2) set the option flag to convert real shops to functional shops, (3) specify the shop conversion parameters, (4) set the punch option flag, and (5) add a comment in the report headers.

The following additional units are used to input information from disk files:

Unit 13 - Shop data from shipyards

Unit 15 - SSI-to-SWBS conversion

Unit 19 - SWBS-to-DMPM conversion

The format for these files is given in Sections 7.2.3.2 through 7.2.3.4.

7.2.3.1 Unit 11 - Card Input

Eight card types are input to FDBK. The formats for these card types are as follows:

Card Type 1

Variable Name	Description	Field	Format
NSETC	Number of sets of COAR's; all COAR's from the file are combined if NSETC = 99	1-2	I2

Card Type 2. This card is repeated NSETC times.

Variable Name	Description	Field	Format
NCK	Number of COAR's in a set	1-2	I2
KOARS	COAR numbers within a set; there will be NCK of these numbers	3-52	10I5

Card Type 3

Variable Name	Description	Field	Format
IFS	Functional shop conversion flag	1-2	I2

Card Type 4

Variable Name	Description	Field	Format
NRLSHP	Number of real shops to convert to functional shops	1-2	I2

Card Type 5. This card is repeated NRLSHP times.

Variable Name	Description	Field	Format
KRLSHP	Number of a particular real shop to be converted	1-3	I3
NF	Number of functional shops KRLSHP is being mapped into	4-6	I3
KFNSHP	Functional shop numbers being mapped into	7-66*	I3
PERFS	Percent of real shop mapped into functional shop		F3.2

*There will be NF pairs of these variables.

Card Type 6

Variable Name	Description	Field	Format
IPUN	Punch option flag	1-2	I2

Card Type 7

Variable Name	Description	Field	Format
ISSFL	SSI conversion flag	3-4	I2

Card Type 8. This card type is repeated for each COAR set.

Variable Name	Description	Field	Format
COM	Comment in report headers	1-80	20A4

7.2.3.2 Unit 13 - Shipyard Shop Data File

Data on completed shipyard work are grouped into bookkeeping units called COAR's (Customer Order Acceptance Records). These data are obtained from each yard and stored on the disk. The file organization is shown in Figure 7.1-1.

The format for each record is as follows:

COAR Header Record

Variable Name	Description	Field	Format
HEADER	COAR	1-5	I5
HEADER	Ship type	14-17	A4
HEADER	Hull number	18-21	I4
HEADER	Ship name	23-34	3A4
HEADER	Type availability	36-37	A2
HEADER	Start date	38-43	3I2
HEADER	Completion date	45-50	3I2
HEADER	Funds authorized	52-61	I10
*HEADER(17-19) or DATE(1-3)	Date of File	63-68	3A2
HEADER	Appropriation/subhead	70-82	3A4,A1
*HEADER(24-25) or YD(1-2)	Shipyard	85-90	A2,A4
HEADER	Sequence number	104-108	I5

*The file date and shipyard name are the only data items from this record which are specifically used by the program. The whole record is read with the variable name HEADER. Values for HEADER(17-19) are placed into the variable DATE(1-3) and for HEADER(24-25) into the variable YD(1-2).

Shop Data Record

Variable Name	Description	Field	Format
COAR	COAR number	1-5	I5
SWBS	SWBS number	6-8	I3
JO	Information for job order number	9-10	A2
NSEG	Number of data segments for this record; maximum of three	12	I1
ISHOP	Shop number	14-103*	I2
MD	Mandays		I8
MAT	Material expenditures		I8
IDOL	Labor expenditures		I8,4X
NSEQ	Sequence number	104-108	I5

*Repeated NSEG times.

COAR Divider Record**

Variable Name	Description	Field	Format
Not applicable	COAR number	1-5	I5
Not applicable	Record of all 9's	6-103	98I1
Not applicable	Sequence number	104-108	I5

End-of-Data Record**

Variable Name	Description	Field	Format
Not applicable	Record of all 9's	1-108	108I1

**The COAR Divider Record and the End-of-Data Record are read with the same formats and variable names as the shop record. The program identifies a divider or end record by the presence of the 9's.

7.2.3.3 Unit 15 - SSI-to-SWBS Conversion File

This file sets up a mapping of SSI numbers to SWBS numbers. SSI, the Ship Systems Index of bookkeeping, is a modified version of the BUSHIPS Consolidated Index and was developed by Portsmouth Naval Shipyard for submarines. The correspondence of SSI and SWBS numbers is one-to-one except for SSI #860. In this case 31%, 35%, 18.5%, and 15.5% of the value in 860 are mapped into SWBS numbers 210, 830, 986, and 992, respectively. The format for this file is as follows:

Variable Name	Description	Field	Format
SSI	SSI number	1-3	I3
SWBS	SWBS number corresponding to SSI	10-12	I3

This format is repeated for each SSI.

7.2.3.4 Unit 19 - SWBS-to-DMPM Conversion File

This file sets up a mapping between Ship Work Breakdown Structure (SWBS) numbers and Depot Maintenance Planning Module (DMPM) numbers.

Record Type 1

Variable Name	Description	Field	Format
NGRPS	Number of depot maintenance planning modules	1-2	I2

Record Type 2. This record is repeated NGRPS times.

Variable Name	Description	Field	Format
IPM	DMPM number	1-4	I4
KSWBS	Lower boundary for the range of SWBS numbers corresponding to IPM		I3
JSWBS	Upper boundary for the range of SWBS numbers corresponding to IPM	7-78	I3

7.2.4 OUTPUT

7.2.4.1 Hard-Copy Output

The following units are used by FDBK for generating hard copy:

Unit 12 - Illegal SWBS numbers

Unit 14 - COAR header records

Unit 16 - Material expenditures, total expenditures, mandays, and percent of manday total for each DMPM (DMPM Profile Report)

Unit 17 - Ratio of mandays of each shop to total mandays for each DMPM (Shop Ratio Report)

Unit 18 - Mandays per shop for each DMPM (Shop Manning Report)

Section 7.2.7 gives samples of these outputs.

Additionally, units 1-10 are used as scratch files to store intermediate calculations.

The program also provides card output. The formats of these cards are described in Section 7.2.4.2.

7.2.4.2 Card Output

The following card is optional and may be punched for each DMPM to produce planning module profiles.

Variable Name	Description	Field	Format
IPM(ISG)	DMPM	1-4	I4
MDSUM(ISG)	Mandays	5-14	I10
PER	Percent of total	15-24	F10.4

The following cards are optional and may be punched for each DMPM to produce shop ratios.

Card Type 1

Variable Name	Description	Field	Format
IPM(ISG)	DMPM	1-4	I4
PERSHP(1-10)	Shop ratio	5-44	10F4.3

Card Type 2

Variable Name	Description	Field	Format
IPM(ISG)	DMPM	1-4	I4
PERSHP(11-20)	Shop ratio	5-44	10F4.3
MDSUM(ISG)	DMPM manday total	45-54	I10

7.2.5 PROGRAM LISTING

```
      PROGRAM FDBK(INPUT,OUTPUT,TAPE1,TAPE2,TAPE3,TAPE4,TAPE5,TAPE6,     FDBK  10
     $   TAPE7,TAPE8,TAPE9,TAPE10,TAPE11=INPUT,TAPE12=OUTPUT,TAPE13,     FDBK  20
     $   TAPE14,TAPE15,TAPE16,TAPE17,TAPE18,TAPE19)                      FDBK  30
C - - -   MICHAEL LAMATRICE     DTNSRDC     (1/76)                       FDBK  40
C - - -   THIS PROGRAM GENERATES A OMPM PROFILE REPORT OF MATERIAL $,     FDBK  50
C - - -   LABOR $, MANDAYS, AND THE RATIO OF INDIVIDUAL OMPM MANDAYS TO  FDBK  60
C - - -   TOTAL MANDAYS FOR SELECTED SETS OF COARS.                       FDBK  70
C - - -   THE SHOP RATIO REPORT DISPLAYS THE PROPORTION OF EACH SHOP TO   FDBK  80
C - - -   THE OMPM TOTAL.                                                 FDBK  90
C - - -   PUNCHED CARDS MAY BE OBTAINED FROM THE SHOP RATIO REPORT TO     FDBK 100
C - - -   BE USED AS INPUT TO LATER PROGRAMS.                            FDBK 110
C - - -   THE SHOP MANNING REPORT TABULATES THE NUMBER OF MANDAYS FOR     FDBK 120
C - - -   EACH SHOP AND OMPM.  REAL OR FUNCTIONAL SHOPS MAY BE OBTAINED. FDBK 130
C - - -   INPUT FILES                                                     FDBK 140
C - - -   TAPE1-TAPE10  SCRATCH FILES FOR COAR SETS                       FDBK 150
C - - -   TAPE11        CARD INPUT  *                                     FDBK 160
C - - -   TAPE13        SHOPS YARD DATA                                   FDBK 170
C - - -   TAPE15        SSI-TO-SWBS CONVERSION                            FDBK 180
C - - -   TAPE19        SWBS-TO-OMPM CONVERSION                           FDBK 190
C                                                                        FDBK 200
C - - -     *   CARD INPUT                                               FDBK 210
C - - -   CARD  VARIABLE  DEFINITION                          FORMAT     FDBK 220
C - - -    1     NSETC    NO. OF SETS OF COARS               I2         FDBK 230
C - - -    2     NCK      NO. OF COARS IN THIS SET           I2         FDBK 240
C - - -          KOARS    COAR NUMBERS IN THIS SET           10I5       FDBK 250
C - - -    3     IFS      FUNCTIONAL SHOP FLAG               I2         FDBK 260
C - - -    4     NRLSHP   NO. OF REAL SHOPS TO CONVERT                   FDBK 270
C - - -                   TO FUNCTIONAL SHOPS                I2         FDBK 280
C - - -    5 *   KRLSHP   NO. OF REAL SHOP TO BE CONVERTED   I3         FDBK 290
C - - -          NF       NO. OF FUNCTIONAL SHOPS BEING                 FDBK 300
C - - -                   MAPPED INTO                        I3         FDBK 310
C - - -          KFNSHP   FUNCTIONAL SHOP NOS.                          FDBK 320
C - - -          PERFS    PERCENT OF REAL SHOP MAPPED                   FDBK 330
C - - -                   INTO FUNCTIONAL                    10(I3,F3.2) FDBK 340
C - - -    6     IPUN     PUNCH FLAG                         I2         FDBK 350
C - - -    7     ISSFL    SSI FLAG                           I2         FDBK 360
C - - -    8     COM      COMMENT IN REPORT HEADER           20A4       FDBK 370
C - - -   *   REPEAT CARD 5 NRLSHP TIMES                                 FDBK 380
C                                                                        FDBK 390
C - - -   FLAGS SHOULD BE SET TO ZERO IF THE OPTION IS NOT DESIRED.      FDBK 400
C - - -   OTHERWISE, IT IS SET TO ONE.                                   FDBK 410
C - - -   IF IFS=0, CARDS 4 AND 5 SHOULD BE OMMITED                      FDBK 420
C                                                                        FDBK 430
C - - -   OUTPUT FILES                                                   FDBK 440
C - - -   TAPE1-TAPE10  SCRATCH FILES FOR COAR SETS                       FDBK 450
C - - -   TAPE12        ILLEGAL SWBS                                      FDBK 460
C - - -   TAPE14        COAR HEADER RECORDS                               FDBK 470
C - - -   TAPE16        OMPM PROFILE REPORT                               FDBK 480
C - - -   TAPE17        SHOP RATIO REPORT                                 FDBK 490
C - - -   TAPE18        SHOP MANNING REPORT                               FDBK 500
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGRPS,IPM(100),   FDBK 510
     $  NPN(1000),IC,LOOP,NSHOP(20),IREP                                 FDBK 520
      COMMON/TWO/ MDTOT(20,100),MATSWB(100),IDLSWB(100),MOSWB(100)       FDBK 530
      DATA MSHOP/1,6,11,17,23,26,31,36,38,41,51,56,64,                   FDBK 540
     $  65,67,71,72,81,94,99/                                            FDBK 550
```

```
      CALL ERRSET(MER,99)                                              FDBK 560
C - - -   READ COAR SETS AND DMPNS                                     FDBK 570
      CALL DATIN                                                       FDBK 580
C - - -   INITIALIZE FLAGS, COUNTERS, AND ADDERS                       FDBK 590
      LOOP=0                                                           FDBK 600
      IREP=0                                                           FDBK 610
3     DO 201 I=1,NGRPS                                                 FDBK 620
      DO 200 J=1,20                                                    FDBK 630
200   MDTOT(J,I)=0                                                     FDBK 640
      MATSWB(I)=0                                                      FDBK 650
      IDLSWB(I)=0                                                      FDBK 660
201   MDSWB(I)=0                                                       FDBK 670
C - - -   ACCUMULATE INTERMEDIATE RESULTS                             FDBK 680
      CALL ACCUM                                                       FDBK 690
      IF(NSETC.EQ.99) CALL SCRTCH                                      FDBK 700
      IF(IREP.EQ.1) GO TO 4                                            FDBK 710
C - - -   WRITE INTERMEDIATE RESULTS TO SCRATCH FILES                  FDBK 720
      CALL SCRTCH                                                      FDBK 730
      GO TO 3                                                          FDBK 740
C - - -   WRITE REPORTS                                               FDBK 750
4     CALL REPORT                                                      FDBK 760
      STOP                                                             FDBK 770
      END                                                              FDBK 780
```

```
      SUBROUTINE ACCUM                                                  FDBK 790
C - - -   THIS ROUTINE ACCUMULATES INTERMEDIATE RESULTS ON MANNING      FDBK 800
C - - -       AND EXPENDITURES                                          FDBK 810
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGRPS,IPN(100),  FDBK 820
     $  MPN(1000),IC,LOOP,NSHOP(20),IREP                                FDBK 830
      COMMON/TWO/ MDTOT(20,100),MATSWB(100),IDLSWB(100),MDSWB(100)      FDBK 840
      COMMON /THREE/ YD(2),DATE(3),IPUN                                 FDBK 850
      COMMON/FOUR/IFS,KFNSHP(20,10),PERFS(20,10),KRLSHP(20),NFS(20)     FDBK 860
     $   ,FACT,NRLSHP,LSHOP(20),NSEG,ISG                                FDBK 870
      COMMON /FIVE/ IDOL(3),ISHOP(3),MAT(3),MD(3)                       FDBK 880
      DIMENSION HEADER(30),FAC(4),IFAC(4)                               FDBK 890
      INTEGER SWBS,COAR                                                 FDBK 900
      DATA FAC/.31,.35,.185,.155/, IFAC/210,830,986,992/                FDBK 910
      READ(13,5) HEADER                                                 FDBK 920
5     FORMAT(15A4,4A2,4A4,A2,A4,A2,4A4)                                 FDBK 930
      IF(EOF(13).NE.0) GO TO 300                                        FDBK 940
      DATE(1)=HEADER(18)                                                FDBK 950
      DATE(2)=HEADER(19)                                                FDBK 960
      DATE(3)=HEADER(17)                                                FDBK 970
      YD(1)=HEADER(24)                                                  FDBK 980
      YD(2)=HEADER(25)                                                  FDBK 990
6     WRITE(14,5) HEADER                                                FDBK1000
      IF(  LOOP.NE.0) GO TO 8                                           FDBK1010
C - - -   WRITE SHIP INFO FROM FIRST COAR HEADER                       FDBK1020
      LOOP=1                                                            FDBK1030
C - - -   READ SSI FLAG                                                FDBK1040
      READ(11,7) ISSFL                                                  FDBK1050
7     FORMAT(I1)                                                        FDBK1060
C - - -   READ SHOPS DATA                                              FDBK1070
8     READ(13,10) COAR,SWBS,JO,NSEG,(ISHOP(J),MD(J),MAT(J),IDOL(J),J=1, FDBK1080
     $   3   ),NSEQ                                                     FDBK1090
10    FORMAT(I5,   I3,A2,1X,I1,1X,3(I2,3I8,4X),I5)                      FDBK1100
      IF(EOF(13).NE.0) GO TO 300                                        FDBK1110
C - - -   BRANCH FOR PROCESSING ALL COARS COMBINED                     FDBK1120
      IF(NSETC.NE.99) GO TO 15                                          FDBK1130
      IF(MAT(1).NE.99999999) GO TO 60                                   FDBK1140
      READ(13,5) HEADER                                                 FDBK1150
      IF(EOF(13).NE.0) GO TO 300                                        FDBK1160
      WRITE(14,5) HEADER                                                FDBK1170
      GO TO 8                                                           FDBK1180
C - - -   COAR COMPLETED                                               FDBK1190
15    IF(MAT(1).EQ.99999999) RETURN                                     FDBK1200
C - - -   BYPASS COARS NOT SPECIFIED ON INPUT CARDS                     FDBK1210
      DO 50 IK=1,NSETC                                                  FDBK1220
      NCIK=NC(IK)                                                       FDBK1230
      DO 50 IJ=1,NCIK                                                   FDBK1240
      IF(COAR.NE.KOARS(IK,IJ)) GO TO 50                                 FDBK1250
      GO TO 60                                                          FDBK1260
50    CONTINUE                                                          FDBK1270
      GO TO 8                                                           FDBK1280
60    CONTINUE                                                          FDBK1290
C - - -   CHECK SWBS NUMBERS                                           FDBK1300
      IF(ISSFL.NE.0) GO TO 12                                           FDBK1310
      IF(MPN(SWBS).NE.0) GO TO 12                                       FDBK1320
      WRITE(12,13)SWBS,COAR,JO,NSEG,(ISHOP(J),MD(J),MAT(J),IDOL(J),J=1, FDBK1330
     $   3),NSEQ                                                        FDBK1340
13    FORMAT(* ILLEGAL SWBS*,I4,I6,A2,1X,I1,1X,3(I2,3I8,4X),I5)         FDBK1350
      GO TO 8                                                           FDBK1360
C - - -   CONVERT SSI TO SWBS                                          FDBK1370
```

```
12    I860=0                                                          FDBK1380
      FACT=1.                                                         FDBK1390
      IF(ISSFL.NE.1) GO TO 80                                         FDBK1400
      IF(SWBS.NE.860) GO TO 75                                        FDBK1410
      I860=1                                                          FDBK1420
70    FACT=FAC(I860)                                                  FDBK1430
      SWBS=IFAC(I860)                                                 FDBK1440
      GO TO 80                                                        FDBK1450
75    IF(ISW(SWBS).NE.0) GO TO 76                                     FDBK1460
76    SWBS=ISW(SWBS)                                                  FDBK1470
C - - -   DETERMINE DMPM TO WHICH THIS SWBS BELONGS                   FDBK1480
80    ISG=MPM(SWBS)                                                   FDBK1490
C - - -   ADJUST REAL SHOP NUMBERS                                    FDBK1500
      IF(IFS.NE.1) GO TO 24                                           FDBK1510
C - - -   PROCESS FUNCTIONAL SHOPS                                    FDBK1520
      CALL FSHOPS                                                     FDBK1530
      GO TO 45                                                        FDBK1540
24    DO 40 I=1,NSEG                                                  FDBK1550
      IF(ISHOP(I).NE.68) GO TO 25                                     FDBK1560
      LSHOP(I)=14                                                     FDBK1570
      GO TO 35                                                        FDBK1580
25    DO 30 J=1,20                                                    FDBK1590
      IF(ISHOP(I).NE.WSHOP(J)) GO TO 30                               FDBK1600
      LSHOP(I)=J                                                      FDBK1610
      GO TO 35                                                        FDBK1620
30    CONTINUE                                                        FDBK1630
      LSHOP(I)=1                                                      FDBK1640
C - - -   ACCUMULATE SHOP SUBTOTALS FOR DMPMS                        FDBK1650
35    IF(  MD(I).LT.0)   MD(I)=0                                      FDBK1660
      IF( MAT(I).LT.0)  MAT(I)=0                                      FDBK1670
      IF(IDOL(I).LT.0) IDOL(I)=0                                      FDBK1680
      MDTOT(LSHOP(I),ISG)=MDTOT(LSHOP(I),ISG)+MD(I)*FACT              FDBK1690
C - - -   ACCUMULATE DMPM TOTALS                                     FDBK1700
      MATSWB(ISG)=MATSWB(ISG)+MAT(I)*FACT                             FDBK1710
      IDLSWB(ISG)=IDLSWB(ISG)+IDOL(I)*FACT                            FDBK1720
      MDSWB(ISG)=MDSWB(ISG)+MD(I)*FACT                                FDBK1730
40    CONTINUE                                                        FDBK1740
45    IC=COAR                                                         FDBK1750
      IF(I860.EQ.0) GO TO 8                                           FDBK1760
      I860=I860+1                                                     FDBK1770
      IF(I860.LT.4) GO TO 70                                          FDBK1780
      GO TO 8                                                         FDBK1790
300   IREP=1                                                          FDBK1800
      RETURN                                                          FDBK1810
      END                                                             FDBK1820
```

```
      SUBROUTINE DATIN                                                  FDBK1830
C - - -   THIS ROUTINE MAPS SSI TO SWBS, READS SETS OF COARS TO BE      FDBK1840
C - - -       PROCESSED, AND MAPS SWBS TO DMPMS                       FDBK1850
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGRPS,IPM(100),  FDBK1860
     $  MPM(1000),IC,LOOP,NSHOP(20),IREP                                FDBK1870
      COMMON/TWO/ MOTOT(20,100),MATSWB(100),IOLSWB(100),MOSWB(100)      FDBK1880
      COMMON /THREE/ YD(2),DATE(3),IPUN                                 FDBK1890
      COMMON/FOUR/IFS,KFNSHP(20,10),PERFS(20,10),KRLSHP(20),NFS(20)     FDBK1900
     $   ,FACT,NRLSHP,LSHOP(20),NSEG,ISG                                FDBK1910
      DIMENSION KSWBS(100,9),JSWBS(100,9)                               FDBK1920
C - - -   READ SSI-TO-SWBS MAPPING                                     FDBK1930
      DO 206 IS=1,1000                                                  FDBK1940
      READ(15,205) JSSI,ISW(JSSI)                                       FDBK1950
205   FORMAT(I3,6X,I3)                                                  FDBK1960
      IF(EOF(15))207,206                                                FDBK1970
206   CONTINUE                                                          FDBK1980
C - - -   READ COAR SETS                                               FDBK1990
207   READ(11,210)NSETC                                                 FDBK2000
      IF(NSETC.EQ.99) NC(1)=999                                         FDBK2010
      IF(NSETC.EQ.99) GO TO 216                                         FDBK2020
      DO 215 K=1,NSETC                                                  FDBK2030
      READ(11,210) NCK, (KOARS(K,J  )        ,J=1,NCK)                  FDBK2040
210   FORMAT(I2,10(I5))                                                 FDBK2050
      NC(K)=NCK                                                         FDBK2060
215   CONTINUE                                                          FDBK2070
C - - -   READ SWBS GROUPS FOR EACH DMPM                               FDBK2080
216   READ(19,210) NGRPS                                                FDBK2090
      DO 225 K=1,NGRPS                                                  FDBK2100
      READ(19,220)      IPM(K),(KSWBS(K,J),JSWBS(K,J),J=1,9)            FDBK2110
220   FORMAT(I4,2X,18(I3,1X))                                           FDBK2120
      DO 224 J=1,9                                                      FDBK2130
      KJ=KSWBS(K,J)                                                     FDBK2140
      IF(KJ.EQ.0) GO TO 225                                             FDBK2150
      JJ=JSWBS(K,J)                                                     FDBK2160
      DO 223 NSWB=KJ,JJ                                                 FDBK2170
223   MPM(NSWB)=K                                                       FDBK2180
224   CONTINUE                                                          FDBK2190
225   CONTINUE                                                          FDBK2200
C - - -   READ FUNCTIONAL SHOP CONVERSION                              FDBK2210
      READ(11,210) IFS                                                  FDBK2220
      IF(IFS.NE.1) GO TO 240                                            FDBK2230
      READ(11,210) NRLSHP                                               FDBK2240
      DO 230 IRS=1,NRLSHP                                               FDBK2250
      READ(11,235)KRLSHP(IRS),NF,(KFNSHP(IRS,JFS),PERFS(IRS,JFS),JFS=1,NFDBK2260
     $   F)                                                             FDBK2270
235   FORMAT(2I3,10(I3,F3.2))                                           FDBK2280
230   NFS(IRS)=NF                                                       FDBK2290
240   READ(11,210) IPUN                                                 FDBK2300
      RETURN                                                            FDBK2310
      END                                                               FDBK2320
```

```
      SUBROUTINE FSHOPS                                                 FDBK2330
C - - -  THIS ROUTINE CONVERTS REAL SHOPS TO FUNCTIONAL SHOPS           FDBK2340
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGPPS,IPM(100),  FDBK2350
     $  MPM(1000),IC,LOOP,NSHOP(20),IREP                                FDBK2360
      COMMON/TWO/ MOTOT(20,100),MATSWB(100),IDLSWB(100),MDSWB(100)      FDBK2370
      COMMON/FOUR/IFS,KFNSHP(20,10),PERFS(20,10),KRLSHP(20),NFS(20)     FDBK2380
     $   ,FACT,NRLSHP,LSHOP(20),NSEG,ISG                                FDBK2390
      COMMON /FIVE/ IDOL(3),ISHOP(3),MAT(3),MD(3)                       FDBK2400
C - - -  LOOP ON NUMBER OF DATA SEGMENTS IN THIS RECORD                 FDBK2410
      DO 41 I=1,NSEG                                                    FDBK2420
      IF(ISHOP(I).NE.68) GO TO 25                                       FDBK2430
C - - -   PUT SHOP 68 DATA INTO SHOP 65                                 FDBK2440
      LSHOP(I)=14                                                       FDBK2450
      GO TO 31                                                          FDBK2460
C - - -  DETERMINE IF CURRENT SHOP CONTRIBUTES TO OTHER SHOPS           FDBK2470
25    DO 30 J=1,20                                                      FDBK2480
      IF(ISHOP(I).NE.NSHOP(J)) GO TO 31                                 FDBK2490
30    CONTINUE                                                          FDBK2500
31    DO 33 IRS=1,NRLSHP                                                FDBK2510
      IF(ISHOP(I).EQ.KRLSHP(IRS)) GO TO 35                              FDBK2520
33    CONTINUE                                                          FDBK2530
C - - -  THIS SHOP MAPS 100 PER CENT ONTO ITSELF                        FDBK2540
      MOTOT(KFNSHP(IRS,JFS),ISG)=MOTOT(KFNSHP(IRS,JFS),ISG)+MD(I)*FACT  FDBK2550
      GO TO 39                                                          FDBK2560
35    NF=NFS(IRS)                                                       FDBK2570
C - - -  LOOP ON NUMBER OF SHOPS BEING MAPPED INTO                      FDBK2580
      DO 40 JFS=1,NF                                                    FDBK2590
40    MOTOT(KFNSHP(IRS,JFS),ISG)=MOTOT(KFNSHP(IRS,JFS),ISG)+MD(I)*FACT  FDBK2600
     $   *PERFS(IRS,JFS)                                                FDBK2610
39    MATSWB(ISG)=MATSWB(ISG)+MAT(I)*FACT                               FDBK2620
      IDLSWB(ISG)=IDLSWB(ISG)+IDOL(I)*FACT                              FDBK2630
      MDSWB(ISG)=MDSWB(ISG)+MD(I)*FACT                                  FDBK2640
41    CONTINUE                                                          FDBK2650
      RETURN                                                            FDBK2660
      END                                                               FDBK2670
```

```
      SUBROUTINE REPORT                                                 FDBK2680
C - - -   THIS ROUTINE WRITES THREE TYPES OF REPORTS FOR EACH           FDBK2690
C - - -       SELECTED SET OF COARS                                     FDBK2700
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGRPS,IPW(100),  FDBK2710
     $  MPW(1000),IG,LOOP,NSHOP(20),IREP                                FDBK2720
      COMMON/TWO/ MOTOT(20,100),MATSWB(100),IDLSWB(100),MOSWB(100)      FDBK2730
      COMMON /THREE/ YD(2),DATE(3),IPUN                                 FDBK2740
      DIMENSION YARD(8),COM(20),                                        FDBK2750
     $  MATSUM(100),IDLSUM(100),MOSUM(100)  ,MOSHP(20,100),PERSHP(20)   FDBK2760
      DATA YARD/2HCH,2HLB,2HMA,2HNO,2HPE,2HPH,2HPT,2HPU/                FDBK2770
C - - -   SUM SHOPS FOR EACH SWBS GROUP                                FDBK2780
C - - -    COMPUTE PERCENTS AND TOTALS                                  FDBK2790
C - - -   DETERMINE YARD FROM WHICH DATA WAS EXTRACTED                  FDBK2800
      DO 10 I=1,9                                                       FDBK2810
      IY=I                                                              FDBK2820
      IF(YD(1).EQ.YARD(I)) GO TO 20                                     FDBK2830
10    CONTINUE                                                          FDBK2840
20    IYDNO=IY                                                          FDBK2850
300   DO 360 IFL=1,NSETC                                                FDBK2860
      REWIND IFL                                                        FDBK2870
      NCF=NC(IFL)                                                       FDBK2880
      IF(NCF.EQ.0) GO TO 360                                            FDBK2890
C - - -   INITIALIZE ADDERS                                            FDBK2900
      NMAT=0                                                            FDBK2910
      NDOL=0                                                            FDBK2920
      NMO=0                                                             FDBK2930
      DO 361 ISG=1,100                                                  FDBK2940
      DO 362 LSH=1,20                                                   FDBK2950
362   MOSHP(LSH,ISG)=0                                                  FDBK2960
      MATSUM(ISG)=0                                                     FDBK2970
      IDLSUM(ISG)=0                                                     FDBK2980
361   MOSUM(ISG)=0                                                      FDBK2990
      DO 30 J=16,18                                                     FDBK3000
      NREP=J-15                                                         FDBK3010
C - - -   WRITE REPORT HEADINGS                                        FDBK3020
      WRITE(J,35) IYDNO,NREP,DATE,YD                                    FDBK3030
35    FORMAT('1 REPORT: 63-0',I1,'-',I1/                                FDBK3040
     $   2X,'DATE: ',A2,2('/',A2), 5X,'YARD: ',A2,A4,/)                 FDBK3050
30    CONTINUE                                                          FDBK3060
      READ(11,5) COM                                                    FDBK3070
5     FORMAT(20A4)                                                      FDBK3080
      DO 60 J=16,18                                                     FDBK3090
      WRITE(J,55) COM                                                   FDBK3100
55    FORMAT( 2X,20A4,//)                                               FDBK3110
60    CONTINUE                                                          FDBK3120
      WRITE(16,40)                                                      FDBK3130
40    FORMAT(40X,'DMPM PROFILE REPORT',/,40X,19(1H-),//)                FDBK3140
      WRITE(17,45)                                                      FDBK3150
45    FORMAT(40X,'SHOP RATIO REPORT',15X,                               FDBK3160
     $   '(SHOP ENTRIES ARE MANNING RATIOS AND THEIR SUM = 1 FOR EACH DMFDBK3170
     $PH)',/,40X,17(1H-),//)                                            FDBK3180
      WRITE(18,50)                                                      FDBK3190
50    FORMAT(40X,'SHOP MANNING REPORT',15X,'(SHOP ENTRIES ARE MAN DAYS)'FDBK3200
     $   ,/,40X,19(1H-),//)                                             FDBK3210
      WRITE(16,305) (KOARS(IFL,J),J=1,10)                               FDBK3220
305   FORMAT(' COARS ',   10I6     //' DMPM' ,10X,' MATERIAL $' ,       FDBK3230
     $   6X,' LABOR $',13X,' MAN DAYS',10X,                             FDBK3240
     $   ' DMPM M.D./TOTAL M.D.',/)                                     FDBK3250
      WRITE(17,335)  (KOARS(IFL,J ),       J=1,10 ),NSHOP               FDBK3260
```

```
335   FORMAT(* COARS *,  10I6      //* DMPM\SHOP*,3X,20I5,* TOT MD*,/)    FDBK3270
      WRITE(18,336)  (KOARS(IFL,J  ),       J=1,10 ),NSHOP               FDBK3280
336   FORMAT(* COARS *,  10I6      //* DMPM\SHOP*,   20I6,* TOT MD*,/)    FDBK3290
      DO 350 IJ=1,NCF                                                    FDBK3300
C - - -   READ INTERMEDIATE RESULTS FROM SCRATCH FILES                   FDBK3310
      READ(IFL,110)((MDTOT(L1,L2),L1=1,20),L2=1,100),MATSWB,IDLSWB,MDSWBFDBK3320
110   FORMAT(10I8)                                                       FDBK3330
      IF(EOF(IFL).NE.0) GO TO 355                                        FDBK3340
C - - -   COMPUTE TOTALS FOR SHOPS AND DMPMS                            FDBK3350
      DO 310 ISG=1,NGRPS                                                 FDBK3360
      DO 309 LSH=1,20                                                    FDBK3370
309   MDSHP(LSH,ISG)=MDSHP(LSH,ISG)+MDTOT(LSH,ISG)                       FDBK3380
      MATSUM(ISG)=MATSUM(ISG)+MATSWB(ISG)                                FDBK3390
      IDLSUM(ISG)=IDLSUM(ISG)+IDLSWB(ISG)                                FDBK3400
310   MDSUM(ISG)=MDSUM(ISG)+MDSWB(ISG)                                   FDBK3410
350   CONTINUE                                                           FDBK3420
C - - -   COMPUTE TOTALS FOR SELECTED COAR SETS                         FDBK3430
355   DO 311 ISG=1,NGRPS                                                 FDBK3440
      NMAT=NMAT+MATSUM(ISG)                                              FDBK3450
      NDOL=NDOL+IDLSUM(ISG)                                              FDBK3460
311   NMD=NMD+MDSUM(ISG)                                                 FDBK3470
      DO 330 ISG=1,NGRPS                                                 FDBK3480
C - - -   COMPUTE MANNING RATIOS FOR DMPMS                              FDBK3490
      PER=FLOAT(MDSUM(ISG))/FLOAT(NMD)                                   FDBK3500
      IF(IPM(ISG).NE.5001) GO TO 315                                     FDBK3510
      WRITE(16,312)                                                      FDBK3520
312   FORMAT(1H1)                                                        FDBK3530
      WRITE(16,314)                                                      FDBK3540
314   FORMAT(                        //* DMPM* ,10X,* MATERIAL $* ,     FDBK3550
     $   6X,* LABOR $*,13X,* MAN DAYS*,10X,                              FDBK3560
     $   * DMPM M.D./TOTAL M.D.*,/)                                      FDBK3570
315   CONTINUE                                                           FDBK3580
      WRITE(16,320) IPM(ISG),MATSUM(ISG),IDLSUM(ISG),MDSUM(ISG),PER      FDBK3590
320   FORMAT(I5,10X,I8,10X,I7,10X,I10,10X,F17.3)                         FDBK3600
      IF(IPUN.NE.1) GO TO 330                                            FDBK3610
      PUNCH 325, IPM(ISG),MDSUM(ISG),PER                                 FDBK3620
325   FORMAT(I4,I10,F10.4)                                               FDBK3630
330   CONTINUE                                                           FDBK3640
      WRITE(16,331) NMAT,NDOL,NMD                                        FDBK3650
331   FORMAT(/* TOTAL*,7X,I10,7X,I10,10X,I10)                            FDBK3660
      DO 345 ISG=1,NGRPS                                                 FDBK3670
      DO 338 LSH=1,20                                                    FDBK3680
      IF(MDSUM(ISG).NE.0) GO TO 337                                      FDBK3690
      PERSHP(LSH)=0                                                      FDBK3700
      GO TO 338                                                          FDBK3710
C - - -   COMPUTE SHOP MANNING RATIOS FOR DMPMS                         FDBK3720
337   PERSHP(LSH)=FLOAT(MDSHP(LSH,ISG))/FLOAT(MDSUM(ISG))               FDBK3730
338   CONTINUE                                                           FDBK3740
      IF(IPM(ISG).NE.5001) GO TO 339                                     FDBK3750
      WRITE(17,312)                                                      FDBK3760
      WRITE(17,329) NSHOP                                                FDBK3770
329   FORMAT(                        //* DMPM\SHOP*,3X,20I5,* TOT MD*,/) FDBK3780
      WRITE(18,312)                                                      FDBK3790
      WRITE(18,343) NSHOP                                                FDBK3800
343   FORMAT(                        //* DMPM\SHOP*,   20I6,* TOT MD*,/) FDBK3810
339   CONTINUE                                                           FDBK3820
      WRITE(17,340) IPM(ISG),PERSHP,MDSUM(ISG)                           FDBK3830
340   FORMAT(I5,8X,20(1X,F4.3),I7)                                       FDBK3840
      WRITE(18,341) IPM(ISG),(MDSHP(LSH,ISG),LSH=1,20),MDSUM(ISG)        FDBK3850
341   FORMAT(I5,5X,20I6,I7)                                              FDBK3860
```

```
      IF(IPUN.NE.1) GO TO 345                                           FDBK3870
      PUNCH 342,IPM(ISG),(PERSHP(M),M=1,10),IPM(ISG),(PERSHP(M),M=11,20)FDBK3880
     *   ,MDSUM(ISG)                                                    FDBK3890
342   FORMAT(I4,10F4.3/I4,10F4.3,I10)                                   FDBK3900
345   CONTINUE                                                          FDBK3910
      IF(NSETC.EQ.99) RETURN                                            FDBK3920
360   CONTINUE                                                          FDBK3930
      RETURN                                                            FDBK3940
      END                                                               FDBK3950
```

```
      SUBROUTINE SCRTCH                                                 FDBK3960
C - - -   THIS ROUTINE WRITES INTERMEDIATE RESULTS ON APPROPRIATE       FDBK3970
C - - -      SCRATCH FILES                                              FDBK3980
      COMMON /ONE/ ISW(1000),NSETC,NC(10),KOARS(10,10),NGRPS,IPM(100),  FDBK3990
     $  MPM(1000),IC,LOOP,NSHOP(20),IREP                                FDBK4000
      COMMON/TWO/ MDTOT(20,100),MATSWB(100),IDLSWB(100),MDSWB(100)      FDBK4010
      IF(NSETC.NE.99) GO TO 100                                         FDBK4020
      WRITE( 1,110)((MDTOT(L1,L2),L1=1,20),L2=1,100),MATSWB,IDLSWB,MDSWBFDBK4030
      RETURN                                                            FDBK4040
C - - -   DETERMINE SETS TO WHICH THIS COAR BELONGS                     FDBK4050
100   DO 150 IK=1,NSETC                                                 FDBK4060
      NCIK=NC(IK)                                                       FDBK4070
      DO 140 IJ=1,NCIK                                                  FDBK4080
      IF(IC .NE.KOARS(IK,IJ  )) GO TO 140                               FDBK4090
C - - -   WRITE SCRATCH FILES FOR STORING COAR SETS                     FDBK4100
      WRITE(IK,110)((MDTOT(L1,L2),L1=1,20),L2=1,100),MATSWB,IDLSWB,MDSWBFDBK4110
110   FORMAT(10I8)                                                      FDBK4120
      GO TO 150                                                         FDBK4130
140   CONTINUE                                                          FDBK4140
150   CONTINUE                                                          FDBK4150
      RETURN                                                            FDBK4160
      END                                                               FDBK4170
```

7.2.6 GLOSSARY

COMMON VARIABLES

Common Block /ONE/

IC	Integer form of COAR number.
IMP(100)	Depot Maintenance Planning Module number.
IREP	Flag set to "1" after the program writes the first report, otherwise it is "0".
ISW(100)	SWBS array corresponding to SSI.
KOARS(10,10)	Array of COAR numbers within a set.
LOOP	Flag denoting first COAR for a ship.
MPM(1000)	Array of DMPM's corresponding to the SWBS numbers.
NC(10)	Array of the number of COAR's in a set.
NGRPS	Number of DMPM's.
NSETC	Number of sets of COAR's.
NSHOP(20)	Array of shop numbers.

Common Block /TWO/

IDLSWB(100)	Array of labor expenditures for each DMPM.
MATSWB(100)	Array of material expenditures for each DMPM.
MDSWB(100)	Array of mandays for each DMPM.
MDTOT(20,100)	Array of mandays for each shop and each DMPM.

Common Block /THREE/

DATE(3)	Date of data tabulation.
IPUN	Punch flag option.
YD(2)	Shipyard name abbreviation from data file.

Common Block /FOUR/

FACT	Percentage that SSI number 860 maps into corresponding SWBS.
IFS	Functional shop conversion flag.
ISG	Index for the number of DMPM's.
KFNSHP(20,10)	Array of functional shop numbers being mapped into.
KRLSHP(20)	Number of a particular real shop to be converted.
LSHOP(20)	Array of indirectly addressed shop numbers.
NFS(20)	Array of the number of functional shops KRLSHP is being mapped into.
NRLSHP	Number of real shops to be converted to functional shops.
NSEG	Number of data segments per input record.
PERFS(20,10)	Array of percent of real shops mapped into functional shops.

Common Block /FIVE/

IDOL(3)	Array of labor expenditures for a particular shop, SWBS, and COAR.
ISHOP(3)	Array of shop numbers.
MAT(3)	Array of material expenditures for a particular shop, SWBS, and COAR.
MD(3)	Array of mandays for a particular shop, SWBS, and COAR.

LOCAL VARIABLES

Main Program

I	Index for the planning modules.
J	Index for shops.

Subroutine DATIN

IRS	Index for NRLSHP.
IS	Index for the number of SSI values.
J	Index used for I/O statements.
JFS	Index used for I/O statements.
JJ	Upper limit of a COAR range.
JSSI	SSI array.
JSWBS(100,9)	Upper limit of a COAR range.
K	Index used for I/O statements.
KJ	Lower limit of a COAR range.
KSWBS(100,9)	Lower limit of a COAR range.
LOOP	Flag denoting the first COAR for a ship.
NCK	Number of COAR's in a set.
NF	Number of functional shops KRLSHP is being mapped into.
NSWB	Number of SWBS's per SWBS range.

Subroutine SCRTCH

IJ	Index for the number of COAR's of a set.
IK	Index for the number of sets of COAR's.
L1	Index used for I/O statements.
L2	Index used for I/O statements.
NCIK	Number of COAR's in a set.

Subroutine ACCUM

COAR	COAR
FAC(4)	Percentage that SSI number 860 maps into corresponding SWBS.
HEADER(30)	COAR header record.
I	Index for the number of segments on a particular data record.
IFAC(4)	SWBS numbers mapped into from SSI number 860.
IJ	Index for the number of COAR's of a set.
IK	Index for the number of sets of COAR's.
ISSFL	Flag denoting SSI numbers being used.
I860	Index for FAC and IFAC.
J	Index for shops; index used for I/O statements.
NCIK	Number of COAR's in a scratch file.
GNIX	Ynput record sequence number.
SWBS	SWBS number.

Subroutine REPORT

COM(20)	Comment in report headers.
I	Index for the shipyards.
IDLSUM(100)	Labor expenditures for each DMPM over a set of COAR's.
IJ	Index for NCF
ISG	Index for the number of DMPM's.
IY	Index for the shipyards.
IYDNO	Coded yard number.
J	Index used for I/O statements.
LSH	Index for the number of shops.
L1	Index used for I/O statements.
L2	Index used for I/O statements.
MATSUM(100)	Material expenditures for each DMPM over a set of COAR's.

Subroutine REPORT (Continued)

MDSHP(20,100)	Mandays for each shop of each DMPM over a set of COAR's.
MDSUM(100)	Mandays for each DMPM over a set of COAR's.
NCF	Number of COAR's in a scratch file.
NDOL	Labor expenditures for a set of COAR's.
NMAT	Material expenditures for a set of COAR's.
NMD	Mandays for a set of COAR's.
NREP	Output report numbers.
PER	Ratio of mandays of each DMPM to total for each COAR.
PERSHP(20)	Ratio of mandays of each shop to total for each DMPM and COAR set.
YARD(8)	Shipyard name abbreviation.

Subroutine FSHOPS

I	Index for the number of segments for a particular data record.
IRS	Index for NRLSHP.
J	Index for the shops.
JFS	Index for NF.
NF	Number of functional shops KRLSHP is being mapped into.

7.2.7 SAMPLE RUN

The CV 59 overhaul was selected for analysis in the sample run. The data consist of the repair COAR 16851, the ship alteration COAR 30851, and the ordinance alteration COAR 49851. The run was made with the alteration COAR's grouped together. The input card set-up and portions of the other input files are shown in this section. Output reports are also given.

Unit 11 - Card Input

```
3
116851
23085149851
3168513085149851
0
0
0
 CV  59  ---  REPAIRS  ---  REAL SHOPS
 CV  59  ---  ALTERATIONS  ---  REAL SHOPS
 CV  59  ---  REPAIRS AND ALTS  ---  REAL SHOPS
```

Unit 15 (Input) - SSI-to-SWBS Conversion File

```
002     830 844 856 986
018     833
013     853
014     841
018     986
019     841
020     982
021     982
022     986
028     986 211N
037     844
040     992 980 211N
042     994
043     997
053     990
080     845
083     851 211N
087     980 841 998 986N
090     982
091     980
111     151
131     111
132     112
156     191
170     167
176     125
177     122 512N 192N 529N
178     141
201     231 241 242 239 244 254
203     243
204     251
206     252
207     253
208     255
209     256
211     262
229     534
230     534
231     221
232     534
233     255
235     263
236     341
237     264
246     238
248     223
300     311
302     324
303     331
307     314
308     324
309     324
310     324
311     324
404     471
```

405	483
407	483
408	451
415	425
416	426
418	423
420	420
421	420
424	455
425	462
426	461
427	424
428	442
429	462
430	460
432	427
435	436
436	441
437	437
438	432
439	431
440	441
441	441
442	441
443	445
444	459
446	441
501	512
502	514
503	516
505	528
508	564
509	533
513	551
515	563
517	531
518	561
520	582
529	554
530	551
532	515
533	515
534	594
538	563
539	529
540	551
541	551
542	532
543	551
546	531
552	556
553	556
558	536
559	532
561	524
562	529
563	541
564	563
567	342
568	593

603	623
605	631
606	634
607	635
608	672
609	665
611	651
612	640
708	751
709	752
714	595
716	436
717	754
719	726
721	727
722	722
723	721
724	724
725	725
729	727
730	721
732	728
733	721
734	721
741	721
742	721
743	721
825	213
826	214 215
827	215
828	215
829	215
830	215
831	215
832	215
833	215
835	216
836	216
837	216
838	215
840	212
841	212
843	217
844	217
846	217
847	217
848	217
853	218 217
855	219
858	210 631 800 810 830 986 992 994

Unit 19 (Input) - SWBS-to-DMPM Conversion File

```
79
1001  100-100 110-124 130-160 164-164 166-166 192-192
1002  125-126
1003  161-161 191-191
1004  162-162
1005  163-163
1006  165-165
1007  167-169
1008  170-179
1009  180-187
2001  200-209 250-250
2002  210-219
2003  221-221 259-259
2004  222-222 234-234
2005  231-233
2006  235-239 223-224
2007  241-246
2008  247-247
2009  251-251
2010  252-252
2011  253-253 258-258
2012  254-256
2013  261-264 290-290
3001  310-312
3002  313-314 320-324 330-332
3003  341-343 390-390
3004  300-309
4001  411-412 493-493
4002  413-417
4003  422-424 426-427 494-494
4004  421-421 425-425
4005  430-446 495-495
4006  450-453 455-455 459-459
4007  454-454 492-492
4008  460-465
4009  470-476
4010  480-489
4011  400-409 490-491
5001  511-511 517-517
5002  512-513
5003  515-515
5004  514-514 516-516
5005  520-558 598-598
5006  562-562
5007  560-561 563-568
5008  570-573 581-585 589-589
5009  586-586
5010  587-587
5011  588-588
5012  591-592 594-597
5013  593-593
5014  500-509
6001  611-613 632-632
6002  631-631
6003  634-639
```

```
6004  644-644 656-656
6005  655-655
6006  641-643 645-645 650-654 661-664
6007  660-660 665-665
6008  670-673 690-690 698-699
6009  608-618 640-640
6010  620-625
6011  633-633
7001  710-711 720-721
7002  712-713 722-723 772-773 780-780 782-783 790-790 792-792 797-799
7003  724-728
7004  730-733 740-743
7005  750-754
7006  760-763
7007  700-709
8001  810-813 896-897 802-802
8002  820-820 830-839
8003  840-845
8004  850-859 890-890 892-895
8005  891-891
9001  982-982
9002  980-981 983-989
9003  990-994
9004  995-995
9005  997-997
```

Unit 12 (Output) - Illegal SWBS Numbers

ILLEGAL SWBS	0	1685100	1	1	0	540	540	0	0	0	0	0	0	0	0	9
ILLEGAL SWBS	1	1685107	3	1	0	4300	4300	31	0	3506	3606	41	0	1058	1058	10
ILLEGAL SWBS	1	1685107	2	51	0	373	373	64	0	989	989	0	0	0	0	11
ILLEGAL SWBS	1	1685111	1	38	0	26400	26400	0	0	0	0	0	0	0	0	12
ILLEGAL SWBS	41	1685101	1	1	31	26	6538	0	0	0	0	0	0	0	0	13
ILLEGAL SWBS	91	1685102	1	1	51	0	8754	0	0	0	0	0	0	0	0	14
ILLEGAL SWBS	92	1685101	1	1	160	70	25268	0	0	0	0	0	0	0	0	15
ILLEGAL SWBS	92	1685102	3	1	141	13344	34677	11	0	12	47	26	1	4	77	16
ILLEGAL SWBS	92	1685102	3	31	2	26	294	38	124	642	18889	51	102	684	15115	17
ILLEGAL SWBS	92	1685102	3	56	5	0	712	64	1	0	131	72	92	57	12511	18
ILLEGAL SWBS	92	1685102	1	99	1	0	171	0	0	0	0	0	0	0	0	19
ILLEGAL SWBS	92	1685103	3	1	119	5326	25010	38	61	307	9650	51	48	367	7326	20
ILLEGAL SWBS	410	1685101	3	1	306	13097	65738	11	144	953	22644	17	52	79	7715	390
ILLEGAL SWBS	410	1685101	3	26	72	475	12099	31	9	101	1369	51	608	2755	88924	391
ILLEGAL SWBS	410	1685101	3	56	45	62	6376	64	48	8	7421	67	904	7097	149050	392
ILLEGAL SWBS	410	1685101	2	71	17	50	2253	72	556	0	81319	0	0	0	0	393
ILLEGAL SWBS	410	1685125	2	1	1	0	259	67	9	26	1450	0	0	0	0	394
ILLEGAL SWBS	630	1685102	3	56	2975	33608	475805	64	50	332	7409	71	95	1454	14081	1226
ILLEGAL SWBS	630	1685103	2	56	116	1884	18213	64	11	0	1671	0	0	0	0	1227
ILLEGAL SWBS	801	1685104	1	1	1104	60	140737	0	0	0	0	0	0	0	0	1314
ILLEGAL SWBS	801	1685120	1	1	1797	154	296058	0	0	0	0	0	0	0	0	1315
ILLEGAL SWBS	0	3085100	3	1	0	26206	26206	11	0	502	602	56	0	14497	14497	1363
ILLEGAL SWBS	1	3085108	3	1	5	72	606	6	0	68	97	11	0	5940	5940	1364
ILLEGAL SWBS	1	3085108	3	17	0	1676	1676	51	0	8764	8764	56	0	269	269	1365
ILLEGAL SWBS	1	3085108	3	64	0	2453	2453	67	0	4375	4375	71	2	24	196	1366
ILLEGAL SWBS	666	3085166	1	99	2356	0	455933	0	0	0	0	0	0	0	0	1473
ILLEGAL SWBS	666	3085167	1	72	1717	0	238182	0	0	0	0	0	0	0	0	1474
ILLEGAL SWBS	666	3085168	1	72	2845	0	394658	0	0	0	0	0	0	0	0	1475
ILLEGAL SWBS	666	3085169	1	1	15	0	2576	0	0	0	0	0	0	0	0	1476
ILLEGAL SWBS	801	3085102	2	1	1311	596	216084	41	0	2	2	0	0	0	0	1484
ILLEGAL SWBS	801	3085103	1	1	9	0	1351	0	0	0	0	0	0	0	0	1485
ILLEGAL SWBS	666	4985166	1	99	406	0	78569	0	0	0	0	0	0	0	0	1615
ILLEGAL SWBS	666	4985167	1	72	296	0	41061	0	0	0	0	0	0	0	0	1616
ILLEGAL SWBS	666	4985168	1	38	482	0	72808	0	0	0	0	0	0	0	0	1617

Unit 14 (Output) - COAR Header Records

```
16231000     CV    59 FORRESTAL     P0076275 077227 0001157624 770813 1771804 602A00NORFOL          00001
16851000     CV    59 FORRESTAL     P0076275 077181 0044605897 770813 1771804 602A00NORFOL          00008
30851000     CV    59 FORRESTAL     P0076275 077181 0021738735 770813 1771804 242160NORFOL          01362
49851000     CV    59 FORRESTAL     P0076275 077181 0003053160 770810 1771804 197270NORFOL          01489
25038000     CVN   68 NIMITZ        PA076061 077181 0000026500 770826 1771804 602A20NORFOL          00001
25048000     CVN   68 NIMITZ NON    PA077069 077192 0005427259 770826 1771804 602A60NORFOL          00003
26048000     CVN   68 NIMITZ NUC    PA077069 077192 0000898830 770826 1771804 602A20NORFOL          00355
30048000     CVN   68 NIMITZ NON    PA077069 077192 0009655738 770826 1771804 242130NORFOL          00391
32048000     CVN   68 NIMITZ NUC    PA077069 077192 0001488805 770826 1771804 242180NORFOL          00531
49048000     CVN   68 NIMITZ NON    PA077069 077192 0000098000 770826 1771804 197290NORFOL          00584
25186000     SSN  664 DEVILNON      PA077153 077213 0002803485 770831 1771804 602A00NORFOL          00001
26186000     SSN  664 DEVILNUC      PA077153 077213 0000152024 770831 1771804 602A30NORFOL          00232
30186000     SSN  664 DEVILNON      PA077153 077213 0000191521 770831 1771804 242100NORFOL          00253
25186000     SSN  664 DEVILNON      PA077153 077213 0002803485 770923 1771804 602A50NORFOL          00001
25264000     LKA  113 CHARLESTON    PA077147 077224 0000250000 770923 1771804 602A30NORFOL          00232
26186000     SSN  664 DEVILNUC      PA077153 077213 0000152024 770923 1771804 602A60NORFOL          00238
30186000     SSN  664 DEVILNON      PA077153 077213 0000191521 770923 1771804 242130NORFOL          00259
25291000     FF 1091  MILLER        PA077206 077238 0000275000 770928 1771804 602A10NORFOL          00001
30269000     SSN  675 BLUEFISH      PA077199 077234 0000078200 770928 17X4912 379000NORFOL          00010
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Unit 16 (Output) - DMPM Profile Report

REPORT: 63-84-1
DATE: 09/28/77 YARD: NORFOL

CV 59 --- ALTERATIONS ---- REAL SHOPS

DMPM PROFILE REPORT

COARS 38851 49851 0 0 0 0 0 0 0 0

DMPM	MATERIAL $	LABOR $	MAN DAYS	DMPM M.D./TOTAL M.D.
1001	0	143	1	.000
1002	0	0	0	0.000
1003	0	0	0	0.000
1004	0	0	0	0.000
1005	0	0	0	0.000
1006	0	0	0	0.000
1007	0	0	0	0.000
1008	0	0	0	0.000
1009	0	0	0	0.000
2001	0	0	0	0.000
2002	0	0	0	0.000
2003	0	0	0	0.000
2004	0	0	0	0.000
2005	0	0	0	0.000
2006	0	0	0	0.000
2007	4	343	2	.000
2008	0	0	0	0.000
2009	0	0	0	0.000
2010	0	0	0	0.000
2011	0	0	0	0.000
2012	0	0	0	0.000
2013	0	0	0	0.000
3001	0	0	0	0.000
3002	0	0	0	0.000
3003	0	0	0	0.000
3004	0	0	0	0.000
4001	0	0	0	0.000
4002	915	9386	57	.001
4003	925	17321	119	.001
4004	0	0	0	0.000
4005	35816	189440	1265	.009
4006	320476	1685923	9344	.083
4007	0	615	4	.000
4008	0	0	0	0.000
4009	0	0	0	0.000
4010	0	0	0	0.000
4011	184875	1197309	6994	.062
5001	0	0	0	0.000
5002	0	0	0	0.000
5003	0	0	0	0.000
5004	267599	1051003	5347	.047
5005	277225	2224441	13165	.116
5006	0	0	0	0.000
5007	0	0	0	0.000
5008	0	0	0	0.000
5009	145654	930388	5465	.048
5010	293272	2099437	12894	.107
5011	0	0	0	0.000
5012	0	0	0	0.000
5013	127534	1058734	6129	.054
5014	0	0	0	0.000
6001	0	0	0	0.000
6002	0	0	0	0.000
6003	0	0	0	0.000
6004	16	1098	7	.000
6005	0	0	0	0.000
6006	0	0	0	0.000
6007	0	0	0	0.000
6008	0	0	0	0.000
6009	532153	2726881	14977	.132
6010	0	0	0	0.000
6011	0	0	0	0.000
7001	0	0	0	0.000
7002	810841	6330484	36348	.321
7003	0	0	0	0.000
7004	0	0	0	0.000
7005	0	0	0	0.000
7006	0	0	0	0.000
7007	0	0	0	0.000
8001	1071	386929	1948	.017
8002	0	0	0	0.000
8003	0	0	0	0.000
8004	0	0	0	0.000
8005	0	0	0	0.000
9001	0	0	0	0.000
9002	0	6646	45	.000
9003	0	0	0	0.000
9004	0	0	0	0.000
9005	0	0	0	0.000
TOTAL	2998376	19837121	113891	

REPORT: 63-84-1
DATE: 09/20/77 YARD: NORFOL

CV 59 --- REPAIRS --- REAL SHOPS

DMPH PROFILE REPORT

COARS 16451 0 0 0 0 0 0 0 0 0

DMPH	MATERIAL $	LABOR $	MAN DAYS	DMPH M.D./TOTAL M.D.
1001	58023	1226350	7722	.035
1002	0	0	0	0.000
1003	91	1150	7	.000
1004	0	0	0	0.000
1005	187323	2101679	12398	.056
1006	0	0	0	0.000
1007	17568	144207	876	.004
1008	3265	98846	645	.003
1009	4340	101497	656	.003
2001	127162	780765	4439	.020
2002	0	0	0	0.000
2003	513039	3295038	18188	.081
2004	0	0	0	0.000
2005	47614	325262	1899	.009
2006	0	0	0	0.000
2007	114139	842585	4662	.022
2008	0	0	0	0.000
2009	68666	523221	3032	.014
2010	0	0	0	0.000
2011	149984	813131	4319	.019
2012	341753	1226786	5928	.027
2013	131596	849627	4850	.022
3001	193986	710176	3644	.016
3002	193187	706689	3637	.016
3003	746	70683	478	.002
3004	0	0	0	0.000
4001	3442	46481	290	.001
4002	11	11	0	0.000
4003	109183	863121	4963	.022
4004	0	0	0	0.000
4005	98089	487825	2757	.012
4006	53975	356882	2026	.009
4007	115015	549994	2985	.013
4008	0	0	0	0.000
4009	22146	118425	646	.003
4010	11825	106978	605	.003
4011	2326	74784	434	.002
5001	48392	143338	737	.003
5002	36661	557855	3549	.016
5003	0	0	0	0.000
5004	315204	853489	3793	.017
5005	1112883	6589349	37322	.167
5006	2889	46787	283	.001
5007	31851	176102	1001	.004
5008	127590	744153	4259	.019
5009	31824	139527	758	.003
5010	257964	2278862	13622	.060
5011	337872	1858332	10678	.047
5012	0	0	0	0.000
5013	0	0	0	0.000
5014	123987	959483	5489	.024
6001	10436	148388	929	.004
6002	190265	1042725	5817	.026
6003	3458	45692	273	.001
6004	6638	9486	28	.000
6005	0	0	0	0.000
6006	337521	1736248	9675	.043
6007	27828	27828	0	0.000
6008	0	0	0	0.000
6009	1122	1784	4	.000
6010	15945	288681	1294	.006
6011	3	0	0	0.000
7001	20889	284025	1285	.005
7002	148912	1041388	6220	.028
7003	0	0	0	0.000
7004	0	0	0	0.000
7005	0	0	0	0.000
7006	0	0	0	0.000
7007	0	0	0	0.000
8001	9	28681	182	.001
8002	149	4028	27	.000
8003	0	0	0	0.000
8004	0	0	0	0.000
8005	0	0	0	0.000
9001	16119	344171	2199	.010
9002	22383	371599	3748	.017
9003	98475	2693973	17494	.078
9004	0	0	0	0.000
9005	679	140685	1026	.005
TOTAL	9848483	39814493	223169	

REPORT: 63-84-1
DATE: 09/28/77 YARD: NORFOL

CV 59 --- REPAIRS AND ALTS --- REAL SHOPS

DMPM PROFILE REPORT

COARS 16851 30851 49851 0 0 0 0 0 0 0

DMPM	MATERIAL $	LABOR $	MAN DAYS	DMPM M.D./TOTAL M.D.
1001	58023	1226493	7723	.023
1002	0	0	0	0.000
1003	91	1150	7	.000
1004	0	0	0	0.000
1005	187323	2101679	12398	.037
1006	0	0	0	0.000
1007	17568	144287	876	.003
1008	3265	98846	645	.002
1009	4340	101497	656	.002
2001	127162	780745	4439	.013
2002	0	0	0	0.000
2003	513039	3295038	18180	.054
2004	0	0	0	0.000
2005	47614	325262	1899	.006
2006	0	0	0	0.000
2007	114143	842929	4864	.014
2008	0	0	0	0.000
2009	68666	523221	3032	.009
2010	0	0	0	0.000
2011	149984	813131	4319	.013
2012	341753	1226738	5928	.018
2013	131596	849627	4858	.014
3001	193986	710176	3464	.010
3002	193187	706689	3637	.011
3003	746	70483	478	.001
3004	0	0	0	0.000
4001	3442	46401	298	.001
4002	926	9397	57	.000
4003	110108	881042	5082	.015
4004	0	0	0	0.000
4005	125905	677265	3802	.011
4006	374451	2041925	11364	.034
4007	115015	550609	2909	.009
4008	0	0	0	0.000
4009	22146	118425	646	.002
4010	11825	106973	605	.002
4011	187201	1272393	7428	.022
5001	40392	143338	737	.002
5002	36661	557455	3649	.011
5003	0	0	0	0.000
5004	582803	1904492	9188	.027
5005	1389228	8813790	50487	.150
5006	2089	46767	283	.001
5007	31851	176182	1001	.003
5008	127590	744153	4259	.013
5009	177478	1069915	6223	.019
5010	551236	4378299	25516	.076
5011	337872	1858332	10478	.031
5012	0	0	0	0.000
5013	127534	1058734	6129	.018
5014	123907	955483	5489	.016
6001	10436	148388	929	.003
6002	193265	1042725	5817	.017
6003	3450	45692	273	.001
6004	6654	10584	27	.000
6005	0	0	0	0.000
6006	337521	1736248	9675	.029
6007	27820	27820	0	0.000
6008	0	0	0	0.000
6009	533275	2720585	14981	.045
6010	15045	208681	1294	.004
6011	0	0	0	0.000
7001	20889	206025	1205	.004
7002	969753	7371870	42568	.127
7003	0	0	0	0.000
7004	0	0	0	0.000
7005	0	0	0	0.000
7006	0	0	0	0.000
7007	0	0	0	0.000
8001	1080	335339	2138	.006
8002	149	4828	27	.000
8003	0	0	0	0.000
8004	0	0	0	0.000
8005	0	0	0	0.000
9001	16119	344171	2199	.007
9002	22303	570201	3790	.011
9003	53475	2693573	17494	.052
9004	0	0	0	0.000
9005	679	140685	1026	.003
TOTAL	8038859	58851714	336276	

Unit 17 (Output) - Shop Ratio Report

REPORT: 63-84-2
DATE: 09/28/77 YARD: NORFOL

CV 59 --- REPAIRS --- REAL SHOPS

SHOP RATIO REPORT

(SHOP ENTRIES ARE MANNING RATIOS AND THEIR SUM = 1 FOR EACH DMPN)

COARS 16051	0	0	0	0	0	0	0	0	0												
DMPN\SHOP	1	6	11	17	23	26	31	35	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
1001	.045	.000	.378	.010	.000	.270	.006	.000	.015	.011	.048	.036	.071	.000	.000	.026	.084	.000	.000	.000	7722
1002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1003	.143	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.571	.000	.000	.000	.000	.286	.000	.000	.000	7
1004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1005	.016	.000	.122	.000	.000	.079	.181	.000	.336	.007	.017	.060	.014	.000	.000	.044	.124	.000	.000	.000	12398
1006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1007	.010	.000	.414	.010	.000	.148	.180	.000	.014	.000	.009	.000	.038	.000	.000	.039	.129	.000	.000	.000	876
1008	.009	.000	.391	.000	.000	.239	.005	.000	.000	.000	.002	.051	.149	.000	.000	.020	.135	.000	.000	.000	645
1009	.003	.000	.358	.000	.000	.245	.000	.000	.105	.035	.015	.023	.059	.000	.000	.055	.101	.000	.000	.000	656
2001	.014	.000	.000	.020	.000	.069	.383	.000	.332	.062	.111	.225	.015	.000	.000	.005	.056	.000	.000	.000	4439
2002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2003	.057	.000	.002	.004	.000	.097	.048	.000	.028	.664	.002	.067	.009	.000	.000	.005	.017	.000	.000	.001	18180
2004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2005	.000	.000	.016	.001	.000	.015	.189	.000	.344	.012	.001	.251	.007	.000	.000	.026	.131	.000	.000	.000	1899
2006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2007	.052	.000	.040	.005	.000	.037	.144	.000	.428	.016	.000	.016	.076	.000	.000	.019	.159	.000	.000	.000	4862
2008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2009	.022	.000	.007	.004	.000	.032	.233	.000	.364	.101	.005	.124	.038	.000	.000	.006	.072	.000	.000	.000	3832
2010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2011	.060	.000	.023	.006	.000	.110	.179	.000	.048	.005	.008	.425	.017	.000	.000	.013	.113	.000	.000	.000	4319
2012	.040	.000	.057	.004	.000	.061	.278	.000	.170	.021	.024	.254	.008	.000	.000	.016	.066	.000	.000	.000	5928
2013	.051	.000	.025	.127	.000	.101	.176	.000	.060	.013	.013	.333	.000	.000	.000	.012	.084	.000	.000	.000	4850
3001	.016	.000	.014	.020	.000	.012	.358	.000	.207	.002	.097	.135	.018	.000	.000	.011	.117	.000	.000	.000	3464
3002	.010	.000	.042	.024	.000	.027	.018	.000	.001	.000	.758	.014	.014	.000	.000	.031	.053	.000	.000	.000	3637
3003	.023	.000	.018	.421	.000	.105	.100	.000	.025	.000	.000	.305	.000	.000	.000	.008	.002	.000	.000	.000	478
3004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4001	.162	.000	.083	.083	.000	.138	.003	.000	.000	.000	.131	.024	.024	.000	.324	.045	.062	.000	.000	.000	290
4002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4003	.135	.000	.041	.012	.000	.021	.022	.000	.035	.000	.171	.007	.021	.000	.505	.030	.030	.000	.000	.000	4963
4004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4005	.117	.000	.026	.064	.000	.022	.010	.000	.000	.000	.489	.011	.019	.000	.186	.021	.034	.000	.000	.000	2757
4006	.082	.000	.018	.006	.000	.014	.000	.000	.000	.000	.231	.069	.020	.000	.471	.044	.037	.000	.000	.000	2020
4007	.107	.000	.030	.019	.000	.022	.023	.000	.024	.000	.146	.045	.036	.000	.491	.030	.028	.000	.000	.000	2905
4008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4009	.062	.000	.012	.000	.000	.048	.009	.000	.000	.000	.119	.181	.026	.000	.474	.051	.017	.000	.000	.000	646
4010	.322	.000	.000	.023	.000	.012	.026	.000	.000	.000	.017	.013	.025	.000	.486	.076	.000	.000	.000	.000	605
4011	.484	.000	.000	.000	.000	.000	.002	.000	.136	.000	.113	.000	.000	.000	.265	.000	.000	.000	.000	.000	434

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5001	.011	.000	.030	.115	.000	.037	.000	.000	.000	.000	.254	.391	.043	.000	.000	.020	.099	.000	.000	.000	737
5002	.018	.000	.041	.281	.000	.056	.019	.000	.065	.001	.352	.056	.017	.000	.000	.041	.052	.000	.000	.001	3649
5003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5004	.035	.000	.024	.029	.000	.030	.033	.000	.000	.001	.106	.593	.009	.000	.000	.012	.128	.000	.000	.000	3753
5005	.033	.001	.038	.013	.000	.063	.215	.000	.052	.021	.070	.352	.025	.000	.001	.026	.091	.000	.000	.000	37322
5006	.035	.000	.385	.000	.000	.254	.064	.000	.064	.000	.000	.000	.065	.000	.000	.071	.042	.000	.000	.000	283
5007	.054	.001	.005	.004	.000	.015	.123	.000	.392	.015	.284	.050	.007	.000	.000	.008	.043	.000	.000	.000	1801
5008	.034	.000	.115	.066	.000	.072	.067	.000	.262	.004	.174	.033	.038	.000	.000	.028	.116	.000	.000	.000	4259
5009	.005	.000	.029	.011	.000	.074	.090	.000	.000	.000	.400	.266	.029	.000	.008	.018	.070	.000	.000	.000	758
5010	.047	.003	.098	.013	.000	.134	.039	.000	.238	.042	.055	.215	.018	.000	.000	.018	.081	.000	.000	.000	13422
5011	.035	.000	.080	.017	.000	.071	.159	.000	.259	.004	.081	.048	.050	.000	.000	.031	.162	.000	.000	.002	10478
5012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5014	.026	.000	.007	.006	.000	.042	.737	.000	.097	.000	.000	.067	.001	.000	.000	.016	.001	.000	.000	.000	5409
6001	.051	.000	.041	.001	.000	.169	.009	.000	.005	.000	.009	.429	.023	.000	.000	.018	.245	.000	.000	.000	929
6002	.064	.000	.107	.000	.000	.072	.000	.000	.000	.002	.000	.039	.027	.000	.000	.538	.151	.000	.000	.000	5817
6003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.810	.000	.000	.190	.000	.000	.000	.000	273
6004	.000	.000	.000	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	20
6005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6006	.049	.000	.056	.341	.000	.130	.001	.000	.013	.000	.121	.180	.024	.000	.000	.030	.054	.000	.000	.000	9675
6007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6009	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4
6010	.018	.000	.152	.056	.000	.227	.025	.000	.005	.409	.002	.007	.019	.000	.000	.038	.043	.000	.000	.008	1294
6011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7001	.264	.000	.001	.001	.000	.000	.027	.000	.163	.000	.061	.015	.005	.000	.402	.039	.023	.000	.000	.000	1205
7002	.037	.000	.067	.040	.000	.031	.078	.000	.290	.012	.203	.049	.043	.000	.000	.017	.134	.000	.000	.000	6220
7003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8001	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	182
8002	.000	.000	.000	.000	.000	.000	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	27
8003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9001	.093	.000	.010	.022	.000	.015	.033	.000	.265	.035	.225	.165	.008	.000	.108	.002	.026	.000	.000	.000	2199
9002	.014	.002	.009	.018	.000	.021	.080	.000	.191	.104	.199	.284	.017	.000	.002	.028	.030	.000	.000	.001	3745
9003	.187	.000	.154	.004	.000	.012	.000	.000	.001	.000	.001	.030	.012	.000	.000	.010	.359	.000	.000	.229	17494
9004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9005	.334	.002	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.389	.000	.000	.000	.272	.000	.000	.000	1026

REPORT: 63-04-2
DATE: 09/28/77 YARD: NORFOL

CV 59 --- ALTERATIONS --- REAL SHOPS

SHOP RATIO REPORT

(SHOP ENTRIES ARE MANNING RATIOS AND THEIR SUM = 1 FOR EACH DMPN)

COARS 30851 49851 0 0 0 0 0 0 0 0

DMPN\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
1001	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1
1002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2007	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2
2008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
3001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
3002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
3003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
3004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4002	.386	.000	.000	.000	.000	.000	.000	.000	.000	.000	.421	.000	.018	.000	.158	.018	.000	.000	.000	.000	57
4003	.286	.000	.143	.076	.000	.076	.000	.000	.126	.000	.165	.000	.042	.000	.000	.017	.050	.000	.000	.000	119
4004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4005	.136	.000	.063	.004	.000	.043	.011	.000	.000	.000	.474	.088	.032	.000	.119	.014	.016	.000	.000	.000	1045
4006	.033	.000	.108	.050	.000	.097	.015	.000	.006	.053	.344	.139	.048	.000	.046	.023	.040	.000	.000	.000	9344
4007	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4
4008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4011	.077	.000	.112	.157	.000	.101	.007	.000	.000	.000	.334	.043	.091	.000	.016	.029	.033	.000	.000	.000	6994

DNPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5801	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5802	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5803	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5804	.031	.000	.114	.102	.000	.145	.018	.000	.000	.009	.093	.354	.042	.000	.000	.029	.064	.000	.000	.000	5347
5805	.066	.000	.161	.072	.000	.155	.018	.000	.009	.003	.070	.246	.082	.000	.000	.042	.076	.000	.000	.000	13165
5806	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5807	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5808	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5809	.035	.002	.023	.009	.000	.043	.126	.000	.324	.003	.090	.181	.016	.000	.031	.027	.171	.000	.000	.000	5465
5810	.082	.001	.034	.016	.000	.085	.134	.000	.294	.003	.065	.157	.021	.000	.000	.011	.097	.000	.000	.000	12894
5811	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5812	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5813	.028	.000	.182	.015	.000	.252	.021	.000	.001	.007	.081	.246	.034	.000	.000	.083	.051	.000	.000	.000	6129
5814	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6801	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6802	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6803	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6804	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7
6805	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6806	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6807	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6808	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6809	.068	.000	.156	.163	.000	.169	.013	.000	.000	.000	.140	.187	.084	.000	.001	.030	.061	.000	.000	.000	14977
6810	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6811	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7801	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7802	.024	.000	.171	.052	.000	.195	.051	.000	.078	.002	.088	.179	.055	.000	.000	.031	.074	.000	.000	.001	36348
7803	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7804	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7805	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7806	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7807	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8801	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1948
8802	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8803	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8804	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8805	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9801	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9802	.000	.000	.000	.000	.000	.444	.000	.000	.444	.000	.044	.067	.000	.000	.000	.000	.000	.000	.000	.000	45
9803	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9804	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9805	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0

REPORT: 63-04-2
DATE: 09/28/77 YARD: NORFOL

CV 59 --- REPAIRS AND ALTS --- REAL SHOPS

SHOP RATIO REPORT (SHOP ENTRIES ARE MANNING RATIOS AND THEIR SUM = 1 FOR EACH DMPM)

COARS 16851 30851 49851 0 0 0 0 0 0 0

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	57	71	72	81	94	99	TOT MD
1001	.045	.000	.378	.010	.060	.270	.006	.000	.015	.011	.048	.036	.071	.000	.000	.026	.084	.000	.000	.000	7723
1002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1003	.143	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.571	.000	.000	.000	.000	.286	.000	.000	.000	7
1004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1005	.016	.000	.122	.000	.000	.079	.181	.000	.336	.007	.017	.060	.014	.000	.000	.044	.124	.000	.000	.000	12398
1006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
1007	.018	.000	.414	.010	.000	.148	.180	.000	.014	.000	.009	.000	.038	.000	.000	.039	.129	.000	.000	.000	876
1008	.009	.000	.391	.000	.000	.239	.005	.000	.000	.000	.002	.051	.149	.000	.000	.020	.135	.000	.000	.000	645
1009	.003	.000	.358	.000	.000	.245	.000	.000	.105	.035	.015	.023	.059	.000	.000	.055	.101	.000	.000	.000	656
2001	.014	.000	.008	.020	.000	.069	.083	.000	.332	.062	.111	.225	.015	.000	.000	.005	.056	.000	.000	.000	4439
2002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2003	.057	.000	.002	.004	.000	.097	.048	.000	.028	.664	.002	.067	.009	.000	.000	.005	.017	.000	.000	.001	18180
2004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2005	.008	.000	.016	.001	.000	.015	.189	.000	.344	.012	.001	.251	.007	.000	.000	.026	.131	.000	.000	.000	1899
2006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2007	.053	.000	.040	.005	.000	.037	.144	.000	.428	.016	.008	.016	.076	.000	.000	.019	.159	.000	.000	.000	4864
2008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2009	.022	.000	.007	.004	.000	.032	.233	.000	.364	.101	.005	.124	.030	.000	.000	.006	.072	.000	.000	.000	3032
2010	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
2011	.060	.000	.023	.006	.000	.110	.179	.000	.040	.005	.008	.425	.017	.000	.000	.013	.113	.000	.000	.000	4319
2012	.040	.000	.057	.004	.000	.061	.278	.000	.170	.021	.024	.254	.008	.000	.000	.016	.066	.000	.000	.000	5928
2013	.051	.000	.025	.127	.000	.101	.178	.000	.060	.013	.013	.333	.008	.000	.000	.012	.084	.000	.000	.000	4850
3001	.016	.000	.014	.020	.000	.012	.350	.000	.207	.002	.097	.135	.018	.000	.000	.011	.117	.000	.000	.000	3464
3002	.018	.000	.042	.024	.000	.027	.018	.000	.001	.000	.758	.014	.014	.000	.000	.031	.053	.000	.000	.000	3637
3003	.023	.000	.010	.421	.000	.105	.100	.000	.025	.000	.000	.305	.000	.000	.000	.008	.002	.000	.000	.000	478
3004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4001	.162	.000	.083	.003	.000	.138	.003	.000	.000	.000	.131	.024	.024	.000	.324	.045	.062	.000	.000	.000	290
4002	.386	.000	.000	.000	.000	.000	.000	.000	.000	.000	.421	.000	.018	.000	.158	.018	.000	.000	.000	.000	57
4003	.109	.000	.043	.014	.000	.022	.022	.000	.037	.000	.171	.007	.022	.000	.493	.030	.030	.000	.000	.000	5082
4004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4005	.122	.000	.037	.047	.000	.028	.010	.000	.000	.000	.485	.032	.022	.000	.168	.019	.029	.000	.000	.000	3802
4006	.041	.000	.392	.042	.000	.082	.013	.000	.005	.043	.324	.126	.043	.000	.122	.026	.040	.000	.000	.000	11364
4007	.109	.000	.030	.019	.000	.022	.023	.000	.024	.000	.146	.045	.036	.000	.490	.030	.028	.000	.000	.000	2909
4008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
4009	.062	.000	.012	.008	.000	.040	.009	.000	.008	.000	.119	.181	.026	.000	.474	.051	.017	.000	.000	.000	646
4010	.322	.000	.000	.023	.000	.012	.026	.000	.000	.000	.017	.013	.025	.000	.486	.076	.000	.000	.000	.000	605
4011	.101	.000	.105	.148	.000	.095	.007	.000	.008	.000	.321	.040	.086	.000	.030	.027	.031	.000	.000	.000	7428

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5001	.011	.000	.030	.115	.000	.037	.000	.000	.000	.000	.254	.391	.043	.000	.000	.020	.099	.000	.000	.000	737
5002	.018	.000	.041	.281	.000	.056	.019	.000	.065	.001	.352	.056	.017	.000	.000	.041	.052	.000	.000	.001	3649
5003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5004	.032	.000	.077	.071	.000	.098	.024	.000	.000	.005	.098	.453	.029	.000	.000	.022	.091	.000	.000	.000	9188
5005	.042	.000	.070	.029	.000	.087	.164	.000	.041	.016	.070	.324	.039	.000	.001	.030	.087	.000	.000	.000	50487
5006	.035	.000	.385	.000	.000	.254	.064	.000	.064	.000	.000	.000	.085	.000	.000	.071	.042	.000	.000	.000	283
5007	.054	.001	.005	.004	.000	.015	.123	.000	.392	.015	.284	.050	.007	.000	.000	.008	.043	.000	.000	.000	1001
5008	.034	.000	.115	.066	.000	.072	.067	.000	.262	.004	.174	.033	.030	.000	.000	.028	.116	.000	.000	.000	4259
5009	.031	.002	.023	.009	.000	.047	.121	.000	.284	.002	.128	.121	.018	.000	.028	.026	.159	.000	.000	.000	6223
5010	.064	.002	.068	.015	.000	.111	.084	.000	.264	.023	.060	.187	.019	.000	.000	.015	.088	.000	.000	.000	25516
5011	.035	.000	.080	.017	.000	.071	.159	.000	.259	.004	.081	.048	.050	.000	.000	.031	.162	.000	.000	.002	10478
5012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
5013	.028	.000	.182	.015	.000	.252	.021	.000	.001	.007	.081	.246	.034	.000	.000	.083	.051	.000	.000	.000	6129
5014	.026	.000	.007	.006	.000	.042	.737	.000	.097	.000	.000	.067	.001	.000	.000	.016	.001	.000	.000	.000	5409
6001	.051	.000	.041	.001	.000	.169	.009	.000	.005	.000	.009	.429	.023	.000	.000	.018	.245	.000	.000	.000	929
6002	.064	.000	.107	.000	.000	.072	.000	.000	.000	.002	.000	.039	.027	.000	.000	.538	.151	.000	.000	.000	5817
6003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.810	.000	.000	.190	.000	.000	.000	.000	273
6004	.259	.000	.000	.741	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	27
6005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6006	.049	.000	.056	.341	.000	.130	.001	.000	.013	.000	.121	.180	.024	.000	.000	.030	.054	.000	.000	.000	9675
6007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
6009	.068	.000	.156	.163	.000	.169	.013	.000	.008	.000	.140	.187	.084	.000	.001	.030	.061	.000	.000	.000	14981
6010	.018	.000	.152	.056	.000	.227	.025	.000	.005	.409	.002	.007	.019	.000	.000	.038	.043	.000	.000	.000	1294
6011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7001	.264	.000	.001	.001	.000	.000	.027	.000	.163	.000	.061	.015	.005	.000	.402	.039	.023	.000	.000	.000	1285
7002	.026	.000	.155	.050	.000	.171	.055	.000	.109	.003	.105	.160	.053	.000	.000	.029	.063	.000	.000	.000	42568
7003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
7007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8001	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2130
8002	.000	.000	.000	.000	.000	.000	****	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	27
8003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
8005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9001	.093	.000	.010	.022	.000	.015	.033	.000	.265	.035	.225	.165	.000	.001	.105	.002	.026	.000	.000	.000	2199
9002	.014	.002	.008	.018	.000	.026	.079	.000	.194	.103	.197	.281	.017	.000	.002	.028	.030	.000	.000	.001	3798
9003	.187	.000	.154	.004	.000	.012	.000	.000	.001	.000	.001	.030	.012	.000	.000	.010	.359	.000	.000	.229	17494
9004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0
9005	.334	.002	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.389	.000	.000	.000	.272	.000	.000	.000	1826

Unit 18 (Output) - Shop Manning Report

REPORT: 63-04-3
DATE: 09/28/77 YARD: NORFOL

CV 59 --- REPAIRS --- REAL SHOPS

SHOP MANNING REPORT (SHOP ENTRIES ARE MAN DAYS)

COARS	16851	0	0	0	0	0	0	0	0	0											
DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
1001	347	0	2920	81	0	2082	50	0	119	83	367	279	548	0	0	197	648	0	0	1	7722
1002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	7
1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005	204	3	1518	2	0	977	2242	0	4162	84	215	738	176	0	0	543	1534	0	0	0	12398
1006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007	16	0	363	9	0	130	158	0	12	0	8	0	33	0	0	34	113	0	0	0	876
1008	6	0	252	0	0	154	3	0	0	0	1	33	96	0	0	13	87	0	0	0	645
1009	2	0	235	0	0	161	0	0	69	23	10	15	39	0	0	36	66	0	0	0	656
2001	51	0	36	89	0	306	369	0	1472	273	493	998	68	0	0	24	248	2	0	0	4439
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	1040	0	42	66	0	1756	869	0	504	12066	33	1218	169	0	0	89	313	0	0	15	18180
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	16	0	31	1	0	29	359	0	653	22	1	477	13	0	0	49	248	0	0	0	1899
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	255	0	195	23	0	180	702	0	2082	77	39	76	368	0	0	91	772	0	0	2	4862
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	68	0	22	11	0	96	705	0	1104	307	16	375	92	0	0	18	216	0	0	0	3832
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	258	1	98	26	0	477	774	0	174	23	35	1837	74	0	0	55	487	0	0	0	4319
2012	239	0	339	26	0	361	1647	0	1005	125	143	1507	49	0	0	96	391	0	0	0	5928
2013	249	0	123	618	0	492	865	0	289	65	65	1617	0	0	0	68	487	0	0	0	4850
3001	55	0	48	70	0	41	1213	0	717	7	337	467	64	0	0	39	406	0	0	0	3464
3002	64	0	152	86	0	100	67	0	5	0	2756	50	51	0	0	113	193	0	0	0	3637
3003	11	0	5	201	0	50	48	0	12	0	0	146	0	0	0	4	1	0	0	0	478
3004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001	47	0	24	1	0	40	1	0	0	0	38	7	7	0	94	13	18	0	0	0	290
4002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4003	519	0	202	62	0	104	110	0	173	0	849	35	105	0	2507	150	147	0	0	0	4963
4004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4005	322	0	73	176	0	61	27	0	0	0	1349	30	52	0	513	59	95	0	0	0	2757
4006	166	0	36	12	0	28	16	0	0	0	466	140	40	0	952	89	75	0	0	0	2828
4007	312	1	87	54	0	63	66	0	69	0	425	131	105	0	1426	86	80	0	0	0	2905
4008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4009	40	0	8	5	0	26	6	0	0	0	77	117	17	0	386	33	11	0	0	0	646
4010	135	0	0	14	0	7	16	0	0	0	10	0	15	0	294	46	0	0	0	0	605
4011	210	0	0	0	0	0	1	0	59	0	49	0	0	0	115	0	0	0	0	0	434

DMPH\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5001	8	0	22	85	0	27	0	0	0	0	187	288	32	0	0	15	73	0	0	0	737
5002	66	0	148	1025	0	204	71	0	237	3	1285	204	62	0	0	151	198	0	0	3	3649
5003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5004	138	0	90	107	0	114	122	0	0	4	398	2227	33	0	0	46	402	0	0	0	3753
5005	1236	24	1428	500	0	2344	8017	0	1943	774	2603	13134	916	0	38	956	3398	6	0	5	37322
5006	18	0	189	0	0	72	18	0	18	0	0	0	24	0	0	20	12	0	0	0	283
5007	54	1	5	4	0	15	123	0	392	15	284	50	7	0	0	8	43	0	0	0	1001
5008	144	0	489	279	0	306	286	0	1117	19	739	139	127	0	0	118	496	0	0	0	4259
5009	4	0	22	8	0	56	68	0	0	0	383	202	22	0	6	14	53	0	0	0	758
5010	635	35	1319	178	0	1800	523	0	3189	558	740	2883	237	0	0	237	1886	2	0	0	13422
5011	365	0	834	183	0	745	1668	0	2715	45	844	499	526	0	0	329	1694	0	0	23	13470
5012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5014	141	2	37	30	0	227	3984	0	527	2	0	365	4	0	0	84	6	0	0	0	5489
6001	47	0	38	1	0	157	0	0	5	0	8	399	21	0	0	17	220	0	0	0	929
6002	370	0	624	1	0	419	0	0	0	9	0	227	156	0	1	3129	881	0	0	0	5817
6003	0	0	0	0	0	0	0	0	0	0	0	0	221	0	0	52	0	0	0	0	273
6004	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
6005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6006	475	0	543	3299	0	1254	13	0	130	0	1175	1744	232	0	0	289	521	0	0	0	9675
6007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6009	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6010	23	0	197	73	0	294	32	0	6	529	2	9	25	0	0	49	55	0	0	0	1294
6011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001	318	0	1	1	0	0	33	0	196	0	73	18	6	0	484	47	28	0	0	0	1205
7002	232	0	414	249	0	193	488	0	1802	72	1260	302	265	0	0	107	836	0	0	0	6220
7003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
8002	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
8003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001	204	0	23	49	0	34	73	0	583	78	494	362	0	0	237	4	58	0	0	0	2199
9002	53	9	32	67	0	77	299	0	715	391	746	1062	65	0	6	105	113	0	0	5	3745
9003	3267	0	2781	73	0	208	0	0	10	0	14	531	218	0	0	181	6277	0	0	4814	17494
9004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9005	343	2	3	0	0	0	0	0	0	0	0	0	399	0	0	0	279	0	0	0	1026

REPORT: 63-04-3
DATE: 09/28/77 YARD: NORFOL

CV 59 --- ALTERATIONS --- REAL SHOPS

SHOP MANNING REPORT

(SHOP ENTRIES ARE MAN DAYS)

COARS 30851 49851 0 0 0 0 0 0 0 0

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
1001	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4002	22	0	0	0	3	0	0	0	0	0	24	0	1	0	9	1	0	0	0	0	57
4003	34	0	17	9	0	9	0	0	15	0	22	0	5	0	0	2	6	0	0	0	119
4004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4005	142	0	66	4	0	45	12	0	0	0	495	92	33	0	124	15	17	0	0	0	1045
4006	305	0	1009	464	0	905	136	0	54	492	3213	1297	446	0	433	212	378	0	0	0	9344
4007	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
4008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4011	540	0	781	1099	0	709	51	0	0	0	2334	298	637	0	110	201	231	0	0	3	6994

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5004	165	0	610	543	0	774	96	0	0	46	498	1891	227	0	0	155	342	0	0	0	5347
5005	868	0	2117	952	3	2047	241	0	113	36	927	3240	1077	0	0	547	1088	0	0	0	13165
5006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5009	190	13	123	51	0	235	686	0	1768	15	492	551	90	0	170	145	936	0	0	0	5465
5010	990	9	416	198	0	1022	1625	0	3554	34	787	1899	254	0	0	137	1169	0	0	0	12894
5011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5013	172	0	1118	92	0	1542	129	0	4	45	494	1508	206	0	0	508	311	0	0	0	6129
5014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6004	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
6005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6009	1014	0	2330	2445	0	2535	192	0	125	5	2090	1609	1254	0	14	445	916	0	0	3	14977
6010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7002	871	0	6204	1072	0	7091	1662	0	2819	71	3207	6497	2003	0	0	1133	2609	0	0	21	36348
7003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001	1948	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1948
8002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9003	0	0	0	0	0	0	0	0	20	0	2	3	0	0	0	0	0	0	0	0	45
9004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REPORT: 63-04-3
DATE: 09/28/77 YARD: NORFOL

CV 59 --- REPAIRS AND ALTS --- REAL SHOPS

SHOP MANNING REPORT

(SHOP ENTRIES ARE MAN DAYS)

COARS	16851	30851	49851	0	0	0	0	0	0	0											
DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
1001	348	0	2920	81	0	2082	50	0	119	83	367	279	548	0	0	197	648	0	0	1	7723
1002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1003	1	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	7
1004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1005	204	3	1518	2	0	977	2242	0	4162	84	215	738	176	0	0	543	1534	0	0	0	12398
1006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1007	16	0	363	9	0	130	158	0	12	0	8	0	33	0	0	34	113	0	0	0	876
1008	6	0	252	0	0	154	3	0	0	0	1	33	96	0	0	13	87	0	0	0	645
1009	2	0	235	0	0	161	0	0	69	23	10	15	39	0	0	36	66	0	0	0	656
2001	51	0	36	89	0	306	369	0	1472	273	493	998	68	0	0	24	248	2	0	0	4439
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003	1040	0	42	66	0	1756	869	0	504	12066	33	1218	169	0	0	89	313	0	0	15	18188
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	16	0	31	1	0	29	359	0	653	22	1	477	13	0	0	49	248	0	0	0	1899
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	257	0	195	23	0	180	702	0	2082	77	39	76	368	0	0	91	772	0	0	2	4864
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	68	0	22	11	0	96	705	0	1104	307	16	375	92	0	0	18	218	0	0	0	3032
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011	258	1	98	26	0	477	774	0	174	23	35	1837	74	0	0	55	487	0	0	0	4519
2012	239	0	339	26	0	361	1647	0	1005	125	143	1507	49	0	0	96	391	0	0	0	5928
2013	249	0	123	618	0	492	865	0	289	65	65	1617	0	0	0	60	407	0	0	0	4858
3001	55	0	48	70	0	41	1213	0	717	7	337	467	64	0	0	39	486	0	0	0	3464
3002	64	0	152	86	0	100	67	0	5	0	2756	58	51	0	0	113	193	0	0	0	3637
3003	11	0	5	201	0	50	48	0	12	0	0	146	0	0	0	4	1	0	0	0	478
3004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4001	47	0	24	1	0	40	1	0	0	0	38	7	7	0	94	13	18	0	0	0	290
4002	22	0	0	0	0	0	0	0	0	0	24	0	1	0	9	1	0	0	0	0	57
4003	553	0	219	71	0	113	110	0	188	0	871	35	110	0	2507	152	153	0	0	0	5082
4004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4005	464	0	139	180	0	106	39	0	0	0	1844	122	85	0	637	74	112	0	0	0	3802
4006	471	0	1045	476	0	933	152	0	54	492	3679	1437	486	0	1385	301	453	0	0	0	11364
4007	316	1	87	54	0	63	66	0	69	0	425	131	105	0	1426	86	88	0	6	0	2989
4008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4009	40	0	8	5	0	26	6	0	0	0	77	117	17	0	306	33	11	0	0	0	646
4010	195	0	0	14	0	7	16	0	0	0	10	8	15	0	294	46	0	0	0	0	605
4011	750	0	781	1099	0	709	52	0	59	0	2383	298	637	0	225	201	231	0	0	3	7428

DMPM\SHOP	1	6	11	17	23	26	31	36	38	41	51	56	64	65	67	71	72	81	94	99	TOT MD
5001	8	0	22	85	0	27	0	0	0	0	187	288	32	0	0	15	73	0	0	0	737
5002	66	0	148	1025	0	204	71	0	237	3	1285	204	62	0	0	151	190	0	0	3	3649
5003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5004	295	0	700	650	0	888	218	0	0	50	896	4118	260	0	0	201	824	0	0	0	9100
5005	2104	24	3545	1452	0	4391	8258	0	2056	810	3530	16374	1993	0	38	1503	4398	6	0	5	50487
5006	10	0	109	0	0	72	18	0	18	0	0	0	24	0	0	20	12	0	0	0	283
5007	54	1	5	4	0	15	123	0	392	15	284	50	7	0	0	8	43	0	0	0	1001
5008	144	0	489	279	0	306	286	0	1117	19	739	139	127	0	0	118	496	0	0	0	4259
5009	194	13	145	59	0	291	754	0	1768	15	795	753	112	0	176	159	989	0	0	0	6223
5010	1625	44	1735	376	0	2822	2148	0	6743	592	1527	4782	491	0	0	374	2255	2	0	0	25516
5011	365	0	834	183	0	745	1668	0	2715	45	844	499	526	0	0	329	1694	0	0	23	10470
5012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5013	172	0	1118	92	0	1542	129	0	4	45	494	1508	206	0	0	508	311	0	0	0	6129
5014	141	2	37	30	0	227	3984	0	527	2	0	365	4	0	0	84	6	0	0	0	5409
6001	47	0	38	1	0	157	8	0	5	0	8	399	21	0	0	17	228	0	0	0	929
6002	370	0	624	1	0	419	0	0	0	9	0	227	156	0	1	3129	881	0	0	0	5817
6003	0	0	0	0	0	0	0	0	0	0	0	0	221	0	0	52	0	0	0	0	273
6004	7	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
6005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6006	475	0	543	3299	0	1254	13	0	130	0	1175	1744	232	0	0	289	521	0	0	0	9675
6007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6009	1018	0	2330	2445	0	2535	192	0	125	5	2090	1609	1254	0	14	445	916	0	0	3	14981
6010	23	0	197	73	0	294	32	0	6	529	2	9	25	0	0	49	55	0	0	0	1294
6011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7001	318	0	1	1	0	0	33	0	196	0	73	18	6	0	484	47	28	0	0	0	1205
7002	1103	8	6618	2121	0	7284	2350	0	4621	143	4467	6799	2268	0	0	1240	3525	0	0	21	42568
7003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8001	2130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2130
8002	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	27
8003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9001	204	0	23	49	0	34	73	0	583	78	494	362	0	0	237	4	58	0	0	0	2199
9002	53	9	32	67	0	97	299	0	735	391	748	1065	65	0	6	105	113	0	0	5	3790
9003	3267	0	2701	73	0	208	0	0	10	0	14	531	218	0	0	181	6277	0	0	4014	17494
9004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9005	343	2	3	0	0	0	0	0	0	0	0	0	399	0	0	0	279	0	0	0	1026