AD679059

SYSTEMS ANALYSIS - MILITARY PERSONNEL

AUTHORIZED VERSUS ON HAND

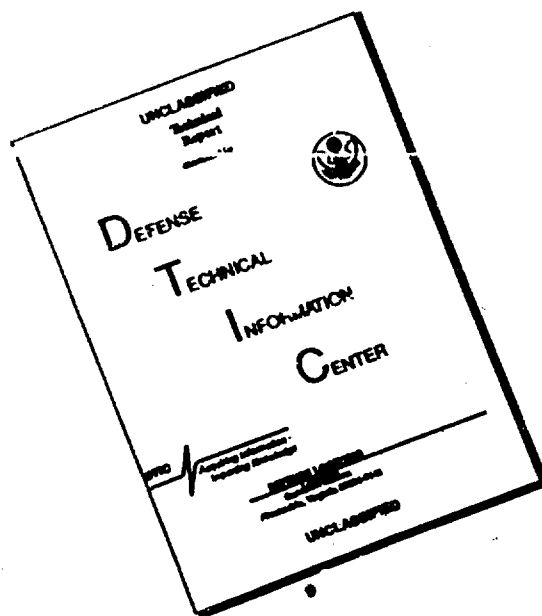Contract No. DAJA 37-67-C-0954

Prepared for

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LIST OF ILLUSTRATIONS

The purpose of this technical note is to des-
cribe the systems analysis required to produce
information on "Military Personnel, Authorized
Versus On Hand," for LMI R1 during the period
of manual operation of the USAREUR Logistics
Management Information System.

The systems analysis is based upon the use of
certain data in the records of the USAREUR
Adjutant General, in specific reports of the
Data Processing Division of that office. This
data is used in conjunction with lists of
Military Occupational Specialties, organiza-
tional categories, and functional categories,
so as to produce information on the number of
officers, warrant officers, and enlisted men
by unit, authorized, currently assigned, and
projected. The information is also stratified
by grade and, in the case of enlisted personnel,
by skill level.

The processes which are to be programmed are
described in Chapters II and III of this report.
All of the specific information required to
produce the results for Presentation Formats
is contained in the Appendix. This includes
lists of the MOSs which fall into the several
categories and a functional categorization of
logistic MOSs. The principal functional divi-
sions are Maintenance, Supply, Transportation
and General Logistics. This latter category
includes MOSs which may be used in more than
one of the other functional categories, as well
as those few MOSs in the Services category.
Enlisted MOSs are further stratified, with
those in the Maintenance functional area hav-
ing two intermediate levels. The number of
MOSs in the other functional areas does not
warrant more than one intermediate level. Of
course, the lowest level of functional strati-
fication is the individual MOS.

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The Appendix also contains a list of the primary organizational units to be used in this LMI and their codes in the AG records used. There are also groupings and sub-groupings of these organizations.

The information on logistic MOSs has been obtained from the following sources:

AR 611-101 - Manual of Commissioned Officer Military Occupational Specialties.

AR 611-112 - Manual of Warrant Officer Military Occupational Specialties.

AR 611-201 - Enlisted Military Occupational Specialties.

Additional information on critical enlisted MOSs has been obtained from a list of such MOSs published by the Office of the Deputy Chief of Staff, Personnel, Department of Army.

The information on projected strengths in the records of the AG 9th Division provide information on projected strengths at four months and at seven months from the date of preparation of the report. The period from the preparation of that report until the presentation of information in the LMI by the Action Officer is anticipated to be such that these projections will actually represent present projected strengths at three months and six months from the time of display.

It has been found that the information on the records of the AG at the present time contain data on obsolete and invalid MOSs. It is therefore necessary, as will be noted in the systems analysis following, not only to extract information on MOSs which are known to be valid logistic MOSs, but also to separate information on valid non-logistic MOSs, and to print out the remaining data so that investigation may be made to determine whether or not the personnel represented are logistic personnel.

Figure 1 indicates the sequence of operations
to be performed each quarter. The lists must
first be validated by the appropriate analyst
in the LMIS group. The processing of the data
on enlisted men and of that on officers and
warrant officers can be performed concurrently
or sequentially, since they are independent
processes.

Prior to processing the data from the AG
records each quarter, the LMIS analyst (or
the Action Officer) should check to determine
that the lists of MOSs being used are current.
This will take the form of determining if any
changes or revisions have been issued to the
three Army Regulations cited above, or to the
list of critical MOSs published periodically
by the DCSPER DA.

In reviewing any changes in the Army regula-
tions, each MOS which has been added or
changed should be read carefully to determine
whether or not it is a logistic MOS. This
determination must be based on an examination
of the duties described rather than on the
title of the MOS. In questionable cases, of
which there are some, the decision must be
based on whether the individual whose duties
are described can be expected to spend the
majority of his efforts on tasks connected
with logistics. The added or revised MOS
must also be assigned to a functional category.

The information required for primary formats
is produced each quarter without regard to any
specific requests. The information required
for secondary presentation formats is produced
only on request. The number of possible secon-
dary formats is extremely high, but it is not
anticipated that more than a few such formats
would be requested at any given reporting period.
The programs for such formats must therefore be
written in such a manner that they are adaptable
to any request by the insertion of lists of cate-
gories of information, and so that the sequence
of totaling the data can be arranged to suit the
particular request. This will be discussed in
more detail in Chapter II.

Update
Lists

EM
Primary
Formats

O & WO
Primary
Formats

EM
Secondary
Formats

O & WO
Secondary
Formats

EM
Critical
MOSs
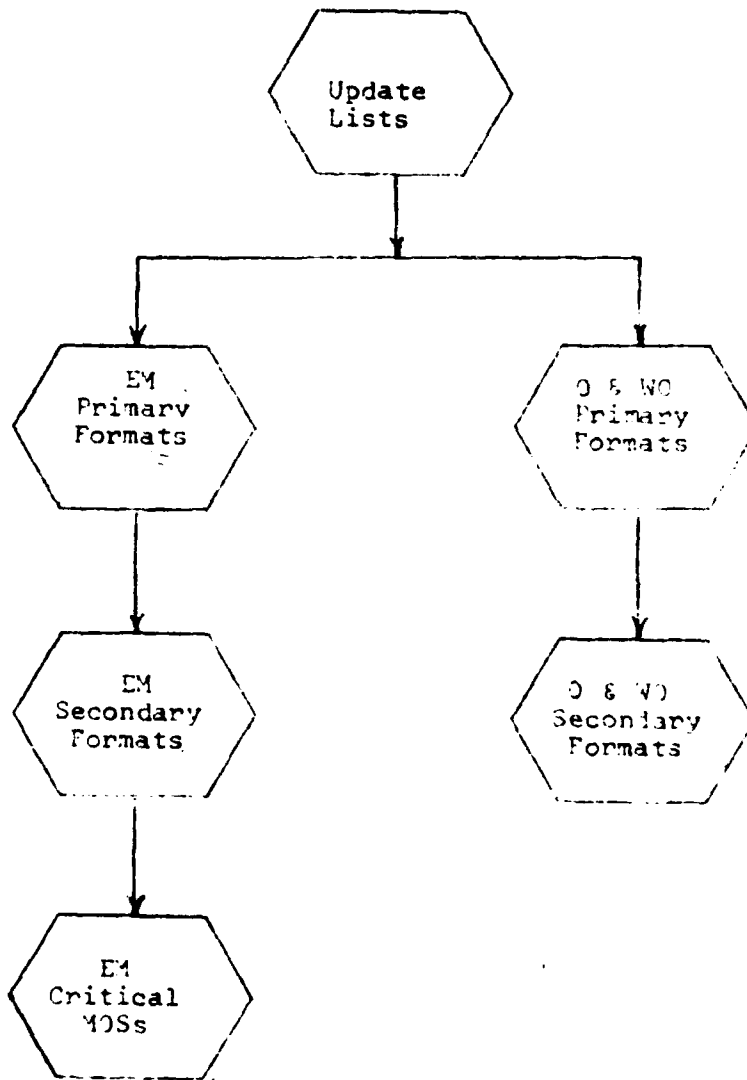
Figure 1.   Sequence of Quarterly Operations

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PROCESSING OF
ENLISTED PERSONNEL DATA

The data necessary to obtain the information
on enlisted personnel for this LMI are con-
tained in the enlisted "Little 45" report of
the Data Processing Division of the Office of
the Adjutant General, USAREUR. The report
number is 403250. This report contains in-
formation on enlisted personnel in terms of
current authorized, projected authorized,
assigned, projected retainable, and projected
replacements, by MOS, by grade, and by unit.
The report also contains additional informa-
tion not pertinent to this LMI.

This report is prepared in several parts. The
processing of data for this LMI requires the
use of Part IV, the unit listing. This is
described in detail in Operations Memo Number
403250 of the Office of the USAREUR AG.

Enlisted MOSs are designated by five characters.
The first two characters (numeric) designate a
general category of specialty. The third
character (alphabetic) designates a particular
specialty. The last two characters (numeric)
indicate the skill level. Since the last char-
acter is always zero, it is usually omitted in
data processing.

The information in the "Little 45" report indi-
cates organizational structure by a subcommand
code of either two or three digits, the first
of which is termed the "Command Code". The
organizational stratification used in this LMI
is shown in detail in List V in the Appendix,
together with the codes for those organizations
used in the AG report. In this stratification,
the USAREUR organizational universe is divided
into twenty-five basic organizations. These
organizations can be arranged into various
groupings as shown on List V.

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The first process to be applied to enlisted personnel data is illustrated in Figure 2. A description of this process follows:

1. It is first necessary to determine whether the MOS is on List A, and if so, the information pertaining to that MOS is disregarded. This eliminates from consideration those MOSs which are valid non-logistic MOSs, and which are not substitutes for critical logistic MOSs. There is no need for further analysis of these MOSs.

2. It is then necessary to determine whether the MOS is on List B. These are valid non-logistic MOSs which constitute authorized substitutes for valid logistic MOSs. The data on these MOSs is not used in connection with the preparation of the Primary Formats, but is set aside for use in a later process on critical MOSs.

3. It is then necessary to determine whether the MOS is on List C. This list comprises all the valid logistic MOSs. These are required for further processing for Primary and Secondary Formats. The MOSs which are not on Lists A, B, or C are obsolete or invalid MOSs.

4. These obsolete and invalid MOSs are then processed to obtain totals by organization within MOS, giving a sub total for the organization and a total for each MOS. The items to be totaled are:

    a. Current authorized strengths

    b. Assigned strengths

    c. Projected authorized strengths

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"Little 45" Report (EM) $200K$ records

1. Is 41S on List A ? — N → 2. Is 103 on List B ? — N → 3. Is 103 on List C ? — N → 4. Totals by Organization Within TD

1. Y → Disregard

2. Y → Critical MOS Process

3. Y →

4. → Printout 101 → To Action Officer

5. Totals by Skill Level Within function → Printout 102 → To Action Officer

6. Totals by Grade Within function → Printout 103 → To Action Officer

5. → 6. → Secondary Formats
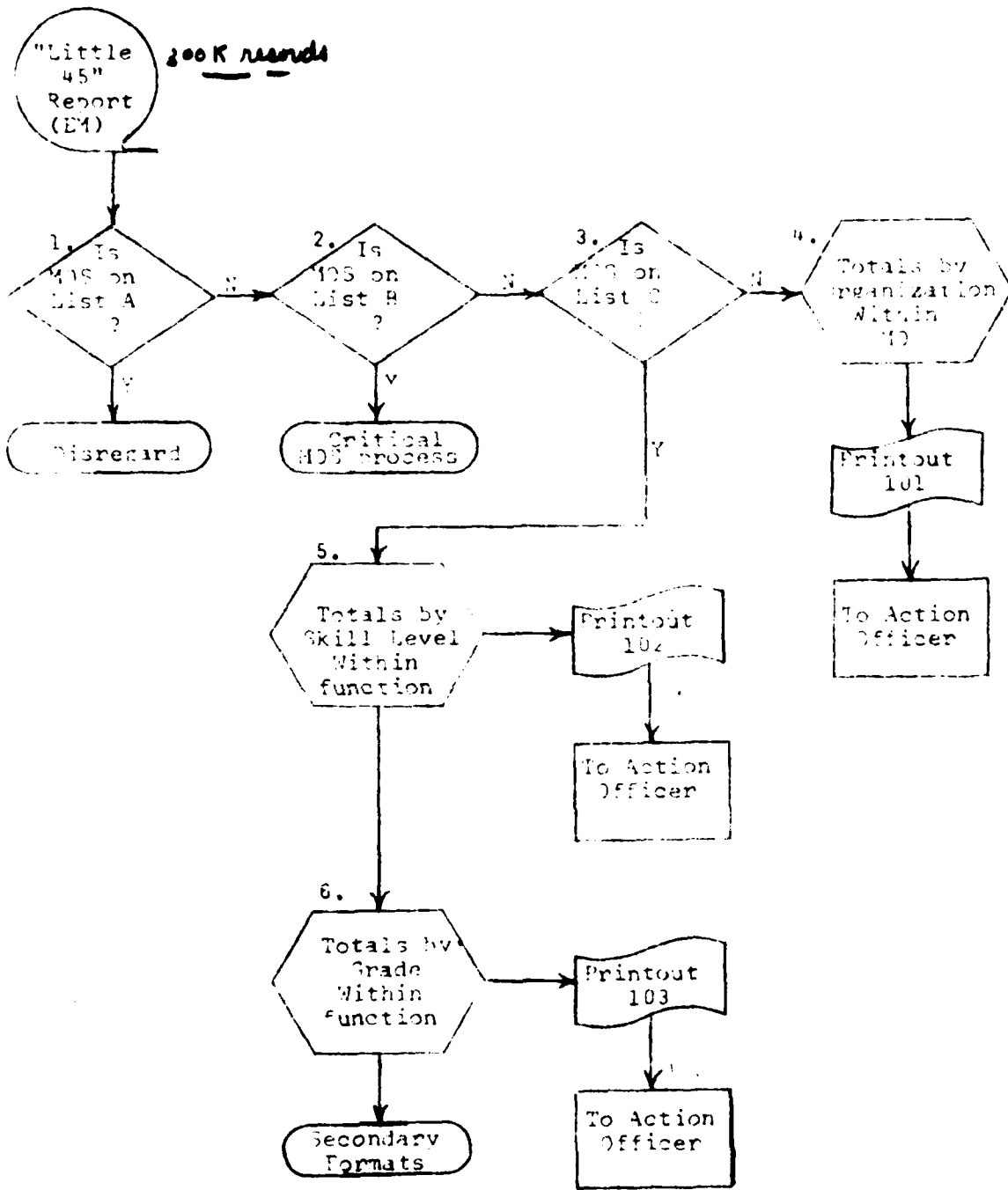
Figure 2. Processing of Enlisted Data for Primary Formats

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d. Projected strengths at four
months (projected retainable
strengths, plus projected
replacement strengths)

e. Projected strengths at seven
months (projected retainable
at seven months, plus projected
replacement at seven months).

These totals are then printed out,
the printout is designated as Print-
out 101 of LMI R1, for the pertinent
date and is transmitted to the Action
Officer. It is not necessary for the
LMI data processing procedure to con-
cern itself with any corrections
resulting from an investigation of
these incorrect MOSs. Any changes
will be forthcoming in the form of
changes to the next issue of the
"Little 45" report.

5. The valid logistic MOSs (those on
List 2) are then processed to obtain
total by skill level within functional
category. This is only at the highest
division of functional categories,
namely those designated by roman
numerals in List 2 in the Appendix.
The items which are totaled are the
same as those described in step 4
above. These totals are placed on
a printout designated as Printout 102
of LMI R1 for the pertinent date, and
are transmitted to the Action Officer.

6. The same data, that on MOSs on List 2,
is then reprocessed to obtain totals
by grade within function. Again, the
functional category is the highest, as
in step 5, and the items totaled are
those described in step 4 above. These
totals are placed on a printout desig-
nated as Printout 103 of LMI R1 for
the pertinent date, and forwarded to
the Action Officer. This completes

the processing necessary for the
preparation of Primary Formats.
The data which was processed
(MOSs on List C) is then ready
to be used in the next process.

As previously stated, information for Secondary
Formats is processed only as requested. These
requests may include categories or subcategories
of any of the informational parameters involved
and these categories may be arranged in any
sequence. For example, information might be
requested on a breakdown of logistic personnel
by grade within a specific list of organizations,
or a request may be for a breakdown by organiza-
tion within a specific grade or grades.

The process of obtaining enlisted data for Sec-
ondary Formats is illustrated in Figure 3 and
described as follows:

1. It must be determined which specific
    organizations are involved in the
    request. This may be a basic organiza-
    tion (one of the twenty-five in List V),
    or it may be one of the combinations of
    organizations also shown in that list.
    Any stratification of organizations in
    another manner, not obtainable by com-
    bining the basic twenty-five organiza-
    tions, is not a valid request.

2. It is then necessary to establish which
    functions are involved in the request.
    The lowest level of stratification of
    function is the individual MOS (three
    characters). The request can be based
    on one of the categories or subcategories
    of functions established in the Appendix,
    or can consist merely of a list of MOSs.

3. It is then necessary to establish which
    skill levels are involved in the request.
    As previously stated, this is represented
    by the fourth digit of the MOS. There
    are no subcategories or standard group-
    ings within skill levels.

```
1. ⬡ Establish
     List of
     Org's
        │
        ▼
2. ⬡ Establish
     List of
     Functions
        │
        ▼
3. ⬡ Establish
     List of
     Skill
     Levels
        │
        ▼
4. ⬡ Establish        ( List C MOS
     List of            from Primary
     Grades             Format Process )
        │                    │
        ▼                    ▼
5. ⬡ Establish     6. ⬡ Totals        Printouts
     Sequence of        As         →   201 & up
     Totals             Requested
                            │               ┊
                            ▼               ▼
                      ( To Critical    To Action
                        MOS Process )   Officer
```
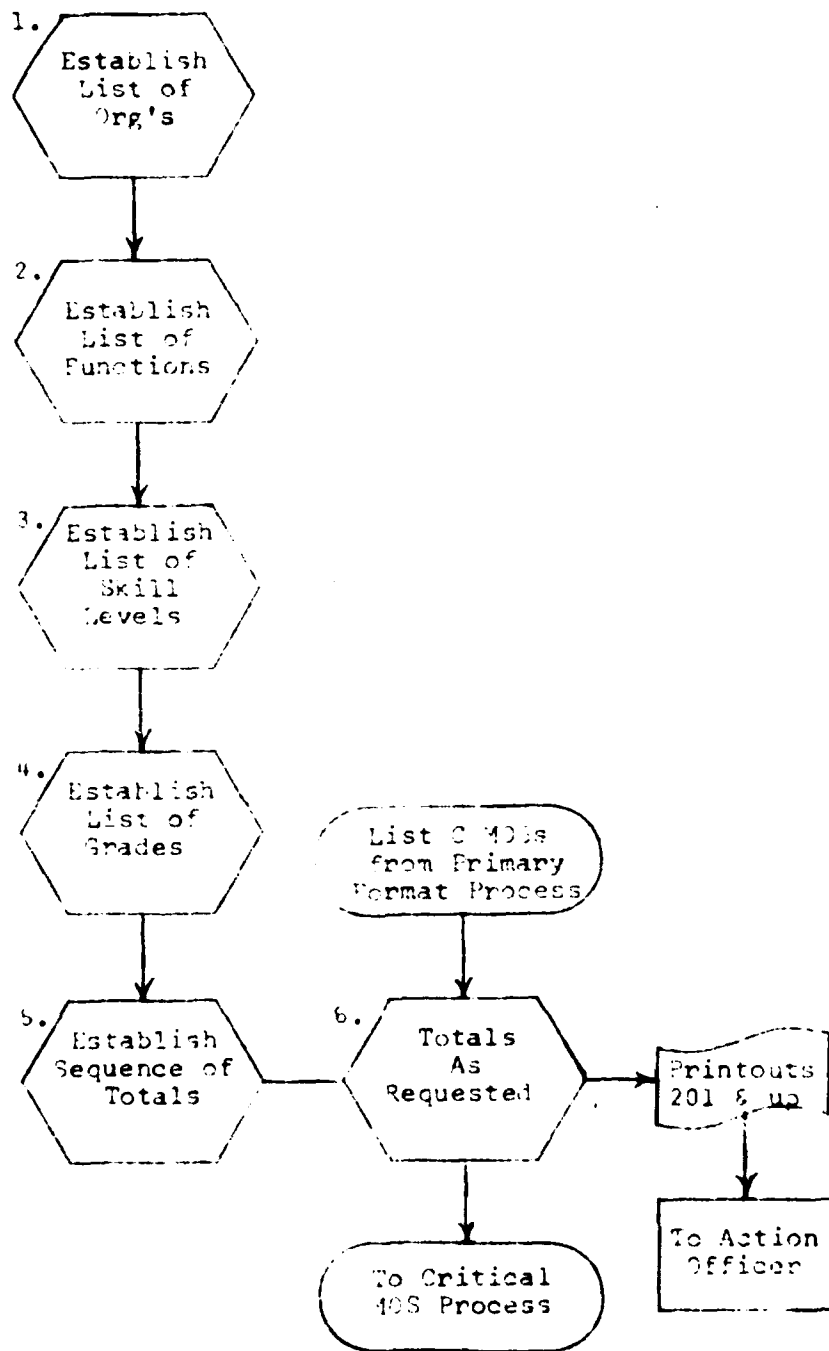
Figure 3.   Processing of Enlisted Data for Secondary Formats

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4. It is then necessary to determine which grades are involved in the request. This can be a single grade or a group of grades.

5. It is then necessary to establish the sequence in which the equipment is to produce totals. This of course must be stated in the request.

6. The data on the MOSs of List 3, which was produced in the Primary Format process, is then processed so as to produce totals in the requested manner. Each secondary format which has been requested is processed as described above and placed on a separate printout. These printouts are numbered starting with number 201 of List B1 for the time period concerned, and are transmitted to the Action Officer. The data on the List C MOSs is then available for processing to determine the shortages in critical MOSs.

The processing of enlisted personnel data to determine the shortages in critical MOSs is illustrated in Figure 4 and described as follows:

1. It is first necessary to determine whether the MOS is a critical one. Critical MOSs are designated by a (K) on List C.

2. It is then necessary to determine whether or not a shortage exists in this MOS. By definition established by proper authority, a critical MOS is deemed to be critically short if the actual strength is 10% or more below the authorized strength, either currently or projected to the end of the fiscal year. Therefore it
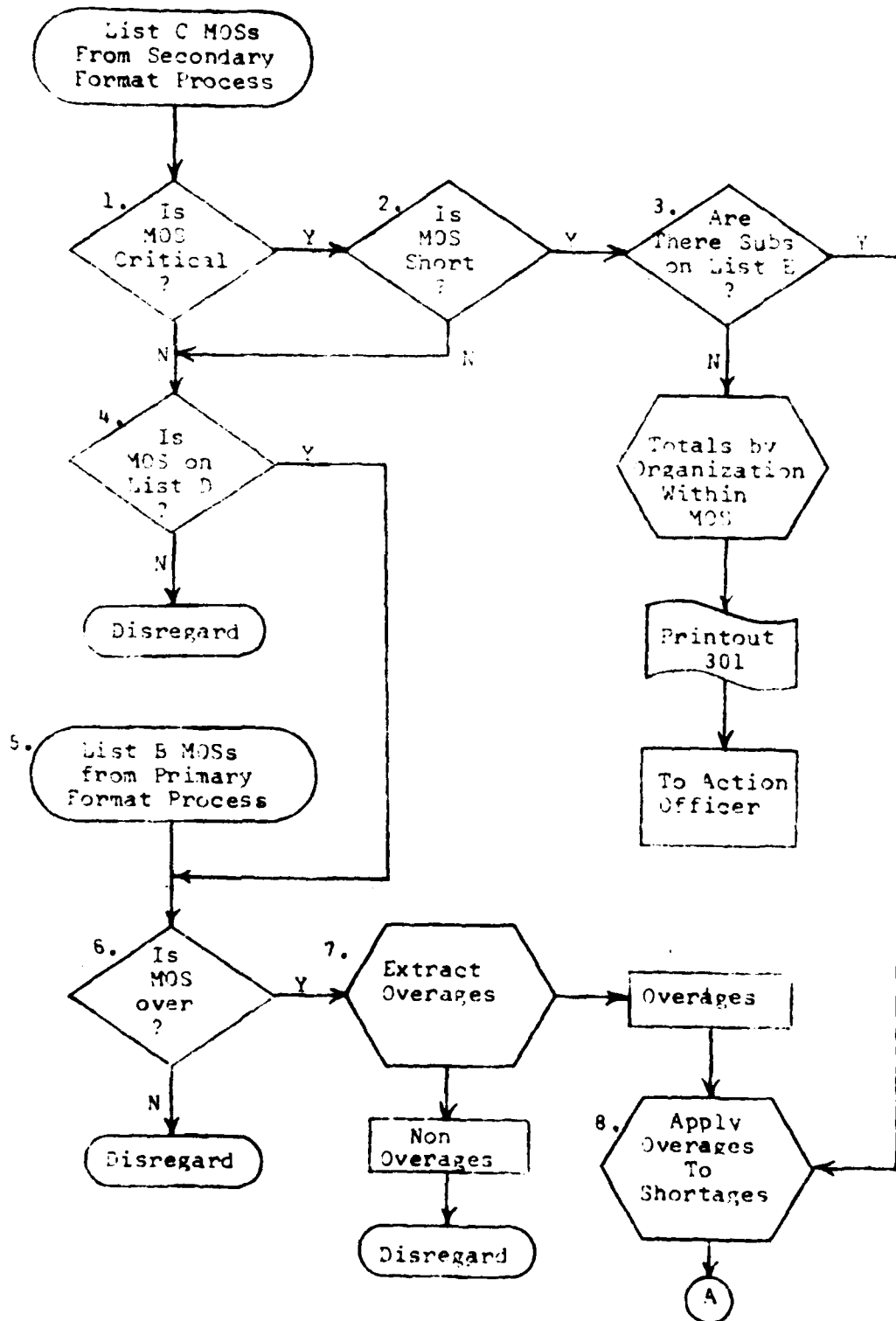
Figure 4. Processing of Enlisted Data for Critical MOSs
(page 1 of 2)
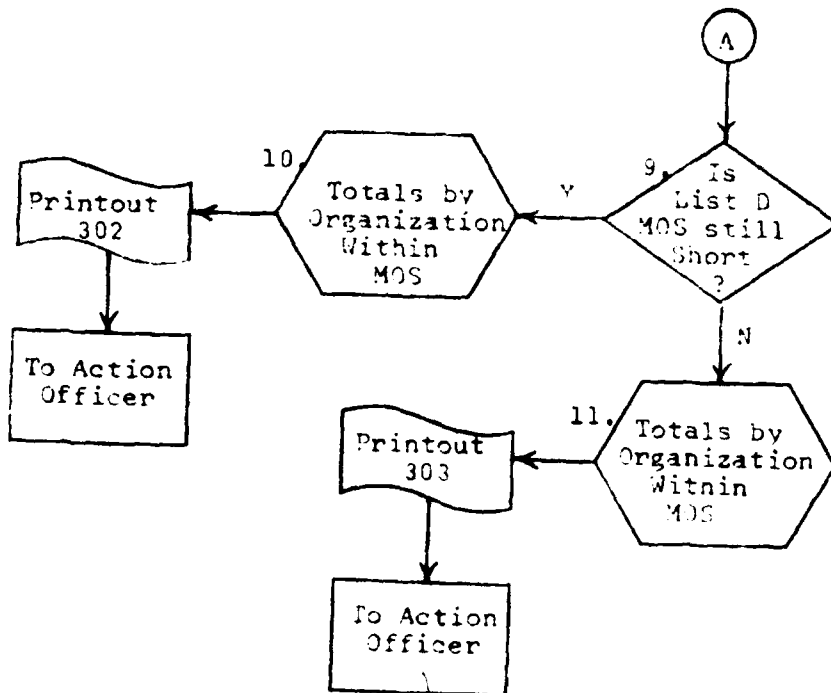
Figure 4.   Processing of Enlisted Data for Critical MOSs
(page 2 of 2)

is necessary in this step to determine if the current assigned strength is below current authorized strength by 10% or more, and also whether the projected strength is 10% or more below the projected authorized strength at either the four month or the seven month projection point, provided these projection points are within the current fiscal year.

3. The data on those MOSs which were determined to be critically short is then examined to determine whether there are substitutes for those MOSs. The substitutes for critical logistic MOSs are shown on List B in the Appendix. If there are no substitutes for a particular critical MOS, the data is then processed to obtain totals by organization within MOS, and information on MOSs in this category is then placed on a printout which is designated Printout 301 of LMI R1 for the appropriate date and transmitted to the Action Officer.

4. The data on those critical MOSs which are not short in the sense of step 2 above, is then included with the data on non-critical MOSs. This is done since many critical MOSs also constitute substitutes for other critical MOSs. It is then necessary to determine which of these MOSs are substitutes for critical MOSs. This is done by reference to List D in the Appendix. If they are not substitutes, the data can be disregarded.

5. It is then necessary to introduce the data on non-logistic MOSs which constitute valid substitutes for critical logistic MOSs. The data on these MOSs was separated in the process for the Primary Formats, and now must be added to the data obtained in step 4.

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6. Those MOSs which have been determined
to constitute valid substitutes for
critical MOSs are then examined to
determine if an overage exists within
that MOS. An overage in this sense
consists of an actual strength higher
than authorized strength, either
currently or at the four months or
six month projection. Those MOSs in
which no overage exists are disregarded.

7. The data on those substitute MOSs
which contain overages is then pro-
cessed to extract the information on
overages only. The information on
these overages may contain figures
for any one, two, or all three of
the three time periods involved.
Those strengths which match authoriza-
tions for any one of the three periods
are disregarded.

8. The overages developed in the previous
step are then applied to the shortages
in those critical MOS which are short
and which were found to have valid
substitute as determined in step 3.
Since many of the substitute MOSs are
valid substitutes for more than one
critical MOS, the process must be so
controlled that the overages are used
only once. They should be applied to
the first critical MOS which requires
their use, and then be deleted from
the list of overages.

9. After the overages have been applied,
it must then be determined which MOSs
are still short. In this case, the
term "short" is used in the same sense
as in step 2 above. The data is separated
into those MOSs which are still short,
and those in which the shortage can be
overcome by use of overages from sub-
stitute MOSs.

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10. Those MOSs which are still short
    are then processed to produce totals
    by organization within MOS. These
    totals are placed on a printout
    designated as Printout 302 for LMI
    R1 for the appropriate date. Print-
    outs 301 and 302 then constitute the
    information on critically short
    critical MOSs in the logistic area.

11. Information on those MOSs in which
    the shortages can be overcome by
    the use of substitute MOSs is then
    processed to produce totals by or-
    ganization within MOS, retaining
    within the critical MOS the informa-
    tion on substitute MOSs used. This
    information is then placed on a
    printout designated as Printout 303
    for LMI R1 for the appropriate date,
    and transmitted to the Action Officer.

This completes the processing of enlisted data
for this report.

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The processing of Officer and Warrant Officer
data is generally similar to the processing
described in Chapter II for enlisted data.
There are some differences in the character-
istics of information regarding officers and
warrant officers.

1. Officer MOSs consist of four char-
    acters, all numeric. Warrant Officer
    MOSs consist of four characters,
    three numeric and one alphabetic.

2. There are no skill levels in Officer
    or Warrant Officer MOSs.

3. The functional categorization of
    Officer and Warrant Officer MOSs
    extends only to the major categories,
    designated by roman numerals in List
    W in the Appendix.

4. There are no Officer or Warrant Officer
    critical MOSs.

5. The "Little 45" report for officers
    does not contain replacement data.
    This must be obtained from another
    source; namely, the Officer replace-
    ment master record.

The "Little 45" report for Officers and Warrant
Officers is designated as report 403258. This
report contains information on Officers and
Warrant Officers authorized, current assigned
strength, and projected losses by grade, MOS,
and organization. This report also contains
additional information not pertinent to this
LMI. It should be noted that the information
on losses contained in this report is not shown
in the form of projected strengths at a point
in time as was the case with enlisted data. It
is shown by the expected months when the Officers
will be lost to the theater.

The processing of Officer data for Primary Formats is illustrated in Figure 5 and described below.

1. It is first necessary to extract replacement data from the Officer Replacement Master Record. This record contains information by subcommand code, by grade and by MOS. For all officer vacancies for which replacements have been requested, the expected date of arrival of these replacements can occur in either of two ways. At the time the request is placed, an allocation date is established and inserted in the data. When a specific officer has been assigned to fill this vacancy, his anticipated arrival date is inserted in the data. When a record contains the arrival date, this should be used as the projected replacement date. When this arrival date is blank, the allocation date should be used.

2. The information extracted from the Officer Replacement Master Record is then merged with information from the "Little 45" report for officers, to arrive at data which provides for each organization, each grade and each MOS, the authorized strength, the current strength, the projected strength at four month and seven month points in the future. This information then parallels that which was obtainable directly from the "Little 45" report for enlisted men.

3. It should then be determined whether the MOS is a valid non-logistic MOS. These are indicated on List P in the Appendix. Those MOSs which are on List P can be disregarded.

Off
Repl'mt
Master
Record

"Little
45"
Report
(Off)

1. Extract
Replacement
Data

2. Match
Merge

3. Is
MOS on
List P
?

Disregard

4. Is
MOS on
List Q
?

5. Totals by
Organization
Within MOS

6. Totals
By Rank
Within
Function

Printout
402

Printout
401

To Action
Officer

To Secondary
Format Process

To Action
Officer
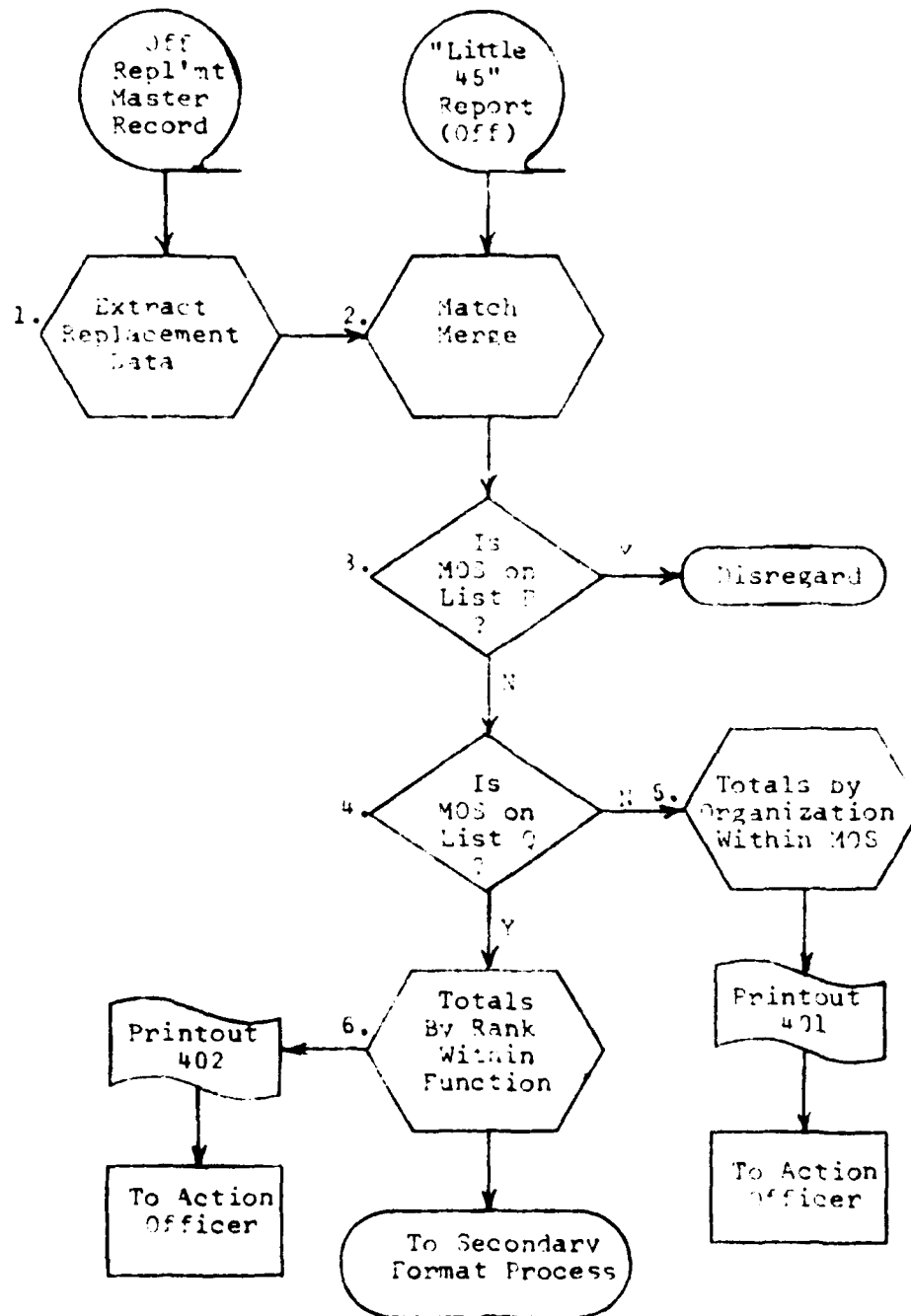
Figure 5. Processing of Officer Data for Primary Formats

4. Those MOSs which are not on List
    P are then examined to determine
    if they are on List 0. This is a
    list of valid logistic MOSs, also
    contained in the Appendix.

5. Those MOSs which are not on either
    List P or List 0 are obsolete or
    invalid MOSs. The data on these
    is processed to obtain totals by
    organization within MOS. The items
    to be totaled are authorized strength,
    current assigned strength, projected
    strength at four months, and projected
    strength at seven months. This in-
    formation is then placed on a printout
    which is designated Printout 401 for
    LMI R1 for the appropriate date, and
    transmitted to the Action Officer.

6. Those MOSs which were found to be on
    List 0, and are therefore valid logis-
    tic MOSs, are then processed to obtain
    totals by rank within functional cate-
    gories. This information is placed on
    a printout designated as Printout 402
    for LMI R1 for the appropriate date,
    and transmitted to the Action Officer.
    The data on the List 0 MOSs is then
    ready to be used for the preparation
    of Secondary Formats.

As was true in the case of enlisted men, Secondary
Formats for Officers are prepared only on request
and only for the specific categories requested.
Since there is no skill level in officer MOSs,
there is one less informational parameter with
which to be concerned.

The processing of officer data for secondary
formats is illustrated in Figure 6 and described
below:

1. It is necessary to determine which
    organizations or combination of or-
    ganizations is involved in the request.

```
1.  / Establish \
    \ List of  /
     \ Org'ns /
         |
         v
2.  / Establish \
    \ List of  /
     \ Functions /
         |
         v
3.  / Establish \              / List o MOSs  \
    \ List of  /               \ from Primary /
     \ Ranks /                  \ Format Process /
         |                             |
         v                             v
4.  / Establish \    5.  / Totals  \       / Printout \
    \ Sequence  / --->   \ as      / --->  \ 501 & up /
     \ of Totals /        \ Requested /          |
                                                 v
                                          +-------------+
                                          | Io Action   |
                                          | Officer     |
                                          +-------------+
```
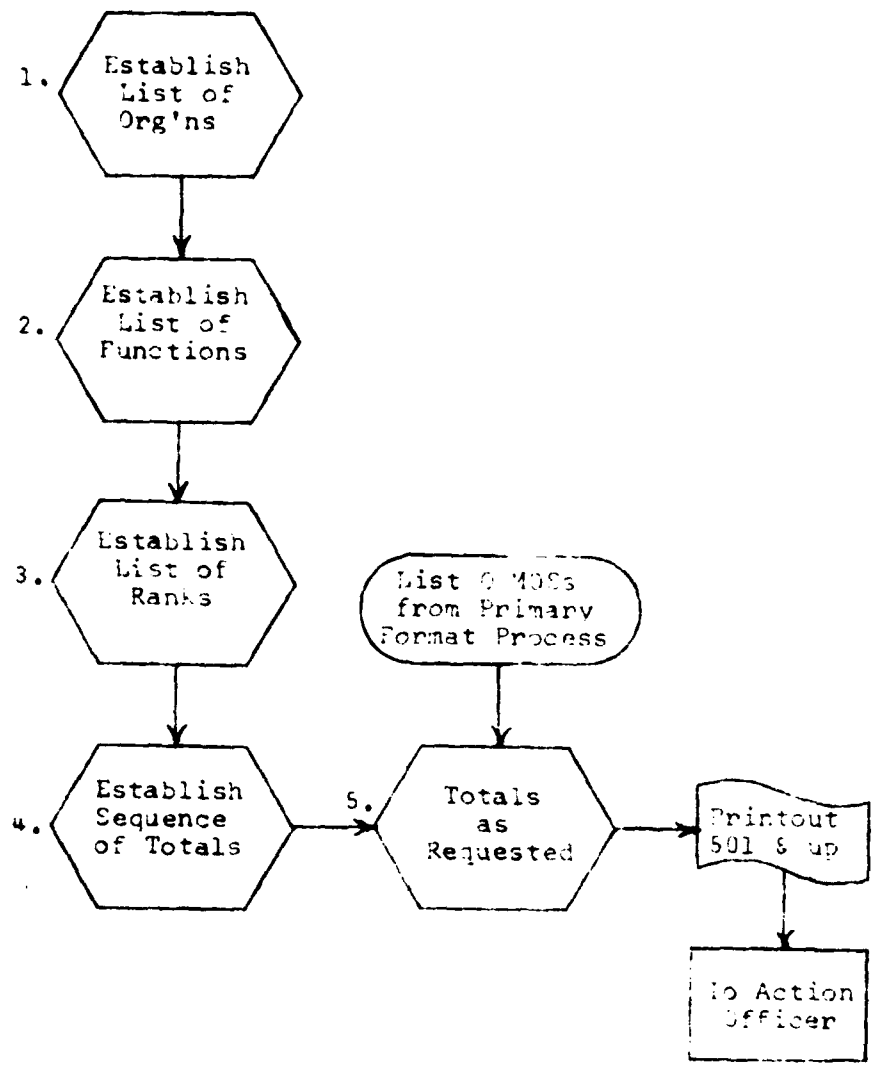
Figure 6.   Processing of Officer Data for Secondary Formats

2. It is necessary to determine which functions are covered in the request. The Officer MOSs permit only stratification into major functional areas, with no sub-stratification between that level and individual MOSs.

3. It is then necessary to determine which ranks or groups of ranks are included in the request.

4. It is then necessary to determine the sequence in which the data is to be totaled in order to arrive at the information requested.

5. The data on valid logistic MOSs from List C which was used in the processing for Primary Formats is then processed in accordance with the information requested. Totals are prepared in accordance with the request and placed on printouts which are numbered starting with number 501 of LMI R2 for the appropriate date, and transmitted to the Action Officer.

This completes the processing of Officer and Warrant Officer data for this report.

Non-logistic MOSs - Not Substitutes for Critical logistic MOSs

* = Any characters in remaining positions

11*	55D*	72*	91T*
12*	55E*	73*	91U*
13*	57D*	74*	91Z*
16*	57F*	81*	92*
16*	62D*	82*	93*
17*	62E*	93*	94A*
31B50	62F*	84*	94B*
32A*	62G*	91A*	94D*
32D50	64A*	91B*	94E*
36K20	70*	91C*	95*
42*	71B*	91D*	96*
51*	71C*	91F*	97*
52C*	71D*	91F*	98*
52G*	71E*	91G*	99*
52H*	71F*	91H*	01*
52J*	71G*	91J*	02*
52K*	71H*	91K*	03*
52L*	71L*	91L*	04*
52M*	71M*	91M*	05*
54A*	71P*	91N*	09*
54B*	71Q*	91P*	
54C*	71R*	91Q*	
54E*	71S*	91S*	

LIST 2

Non-logistic MOSs - Valid Substitutes for Critical logistic MOSs

31400

2????

1????

????

31040

?????

32041

???4

36030

36520

36K20

36040

36540

36K40

36050

Valid Logistic MOSs

(K) Critical MOS

	MOS	Functional Category		MOS	Functional Category
	21A10	IA1	(K)	23N10	IA1
(K)	21G20	IA1	(K)	23P40	IA1
(K)	21G40	IA1	(K)	23Q20	IA1
(K)	21H20	IA1	(K)	23Q40	IA1
(K)	21H40	IA1	(K)	23R20	IA1
(K)	21H50	IA1	(K)	23R40	IA1
(K)	21J20	IA1	(K)	23S20	IA1
(K)	21J40	IA1	(K)	23S40	IA1
(K)	21K20	IA1	(K)	23T20	IA1
(K)	21K40	IA1	(K)	23T40	IA1
	21R20	IA1	(K)	23U20	IA1
	21R40	IA1	(K)	23U40	IA1
	21S20	IA1		23W50	IA1
	21S40	IA1		23W50	IA1
	21T20	IA1			
	21T40	IA1		25T20	IA4
	21U50	IA1		25U40	IA4
				25C20	IA4
	22A10	IA1	(K)	25D20	IA4
(K)	22F20	IA1	(K)	25D40	IA4
(K)	22F40	IA1		25E20	IA4
	22G20	IA1		25E40	IA4
	22G40	IA1	(K)	25F20	IA4
(K)	22J20	IA1	(K)	25F40	IA4
(K)	22J40	IA1	(K)	25G20	IA4
(K)	22K20	IA1	(K)	25G40	IA4
(K)	22K40	IA1	(K)	25H20	IA4
(K)	22L20	IA1	(K)	25J20	IA4
(K)	22L40	IA1	(K)	25J40	IA4
(K)	22M20	IA1		25K20	IA4
(K)	22M40	IA1		25K40	IA4
				25L50	IA4
(K)	23G20	IA1			
(K)	23G30	IA1	(K)	26B20	IA3
(K)	23G40	IA1	(K)	26B30	IA3
(K)	23H20	IA1	(K)	26C20	IA3
(K)	23H40	IA1	(K)	26B30	IA3

	MOS	Functional Category		MOS	Functional Category
(M)	26D20	IA3	(M)	31N20	IA2
(K)	26E20	IA3	(M)	31N40	IA2
(K)	26E40	IA3		31P20	IA2
(M)	26H20	IA3		31V4	IA2
(M)	26H40	IA3		31V50	IA2
(M)	26J20	IA3			
( )	26J30	IA3	(M)	32D20	IA2
(M)	26J40	IA3	(M)	32G4	IA2
(M)	26L10	IA4	(K)	32H50	IA1
(K)	26L20	IA3	(K)	32M50	IA2
(M)	26L40	IA3	(M)	32P20	IA2
(M)	26M20	IA3	(K)	32R40	IA2
(M)	26N20	IA3	(M)	32F20	IA1
(M)	26P20	IA3	(K)	32F4	IA2
(M)	26P40	IA3	(M)	33C50	IA2
(M)	26P50	IA3	(K)	33C40	IA2
(M)	26T20	IA3			
(M)	26T30	IA2		33B20	IA6
(M)	26T40	IA3		33C2	IA6
(K)	26T50	IA3		33D20	IA6
	26W20	IA3		33E20	IA1
	26W40	IA3		33H40	IA6
	26W50	IA3		33E50	IA6
				33F10	IA6
	27A10	IA1		33G20	IA6
	27B20	IA1		33T20	IA6
	27B40	IA1		33T40	IA6
	27C20	IA1		33W20	IA6
	27C40	IA1			
	27D20	IA1	(M)	34C20	IA5
	27D40	IA1	(K)	34C30	IA5
	27E50	IA1	(M)	34D20	IA6
			(M)	34D50	IA6
	31B20	IA2	(M)	34G20	IA6
	31B30	IA2	(M)	34G40	IA6
(K)	31E20	IA2			
(M)	31E40	IA2	(K)	35B20	IA6
	31G40	IA2	(K)	35B30	IA6
	31G50	IA2	(K)	35B40	IA6
(K)	31J20	IA2	(M)	35D20	IA6
(K)	31J40	IA2	(K)	35D30	IA6
(K)	31J50	IA2	(K)	35F20	IA6
(K)	31K20	IA2	(M)	35F30	IA6
(K)	31K40	IA2	(K)	35E40	IA6
(M)	31K50	IA2	(K)	35F20	IA6

10S	Functional Category	10?	Functional Category
(K) 35F40	IA6	43K20	IC
(K) 35G20	IA6	43K40	IC
(K) 35G30	IA6	43L20	IC
(K) 35G40	IA6	43L40	IC
(K) 35G50	IA6	43M40	IC
(K) 35H20	IA6		
(K) 35H40	IA6	44A10	IB6
(K) 35H50	IA6	44A20	IB6
(K) 35K20	IA3	44340	IB6
(K) 35L20	IA3	44C20	IB6
(K) 35M20	IA3	44C40	IB6
(K) 35N20	IA3	44D20	IB6
(K) 35P40	IA3	44E20	IB6
(K) 35P50	IA3	44E30	IB6
		44E40	IB6
36D10	IA2	44K20	IB6
36D20	IA2	44K40	IB6
36D40	IA2	44740	IB6
36D50	IA2	44Z50	IB6
36G20	IA2		
(K) 36H20	IA2	45A10	IB1
(K) 36H30	IA2	45B20	IB1
(K) 36H40	IA2	45B40	IB1
(K) 36H50	IA2	45C20	IB1
		45C40	IB1
41B20	IB7	45D20	IB1
41B30	IB7	45E20	IB1
(K) 41C10	IB7	45E40	IB1
(K) 41C20	IB7	45F20	IB1
(K) 41C40	IB7	(K) 45320	IB1
41E20	IB7	(K) 45G30	IB1
41F20	IB7	(K) 45G40	IB1
(K) 41G20	IB7	(K) 45H20	IB1
41H40	IB7	(K) 45H40	IB1
41J20	IB7	(K) 45J20	IB1
41J40	IB7	(K) 45J40	IB1
41K20	IB7	45Z40	IB1
		45Z50	IB1
43A10	IC		
43E20	IC	46A10	IB2
43E30	IC	46C20	IB2
43E40	IC	46C40	IB2
43E50	IC	(K) 46L20	IB2
43J20	IC	(K) 46L40	IB2
43J40	IC	(K) 46M20	IB2

MOS	Functional Category		MOS	Functional Category
(K) 46X40	IB?		57A10	IVA
			57C20	IB4
52A10	IA5		57C40	IB4
(K) 52B20	IA5		57C50	IB4
(K) 52B30	IA5		57E20	IVA
(K) 52C20	IA5		57E40	IVA
(K) 52D20	IA5		575.0	IVA
(K) 52D40	IA5		57G40	IVA
52F20	IA5		57?50	IVA
			57?20	IIIB
53B20	IIA		57?40	IIIB
53B40	IIA		57?50	IIIB
53C20	IIA			
53C40	IIA		61A10	IIID
			61B20	IIID
54D20	IB8		61B30	IIID
54D40	IB8		61B40	IIID
54D50	IB8		61C20	IIID
			61C30	IIID
55A10	IIB		61C40	IIID
55B20	IIB		61C50	IIID
55B40	IIB		61D40	IIID
55C20	IIB		61C20	IB8
55C40	IIB		61E30	IB8
55F20	IIB		61E40	IB5
55F40	IIB		61Z50	IIID
55G20	IIB			
55G30	IIB		62A10	IB3
55G40	IIB		62B20	IB8
55G50	IIB		62C30	IB3
55Z40	IIB		62?40	IB3
55Z50	IIB		62?50	IB3
			62C20	IB3
56A10	IIA		62C30	IB3
56B20	IIA		62C40	IB4
56B40	IIA			
56C20	IID		63A10	IB4
56C40	IID		63B20	IB4
56C50	IID		63C20	IB4
56D20	IIE		63C30	IB4
55D40	IIE		63C40	IB4
55D50	IID		63G20	IB4
56E20	IIIB		63G40	IB4
56E40	IIIB		63H20	IB4
56E50	IIIB		63H40	IB4

MOS	Functional Category		MOS	Functional Category
63J20	IB9	(K)	67N20	IB3
63J40	IB9	(K)	67N30	IB3
63K20	IB9	(K)	67N40	IB3
63K40	IB9	(K)	67N50	IB3
63Z50	IB4		67P20	IB3
			67P30	IB3
64B20	IIIA		67Q20	IB3
64C20	IIIA		67Q30	IB3
64C40	IIIA		67R40	IB3
64C50	IIIA		67R50	IB3
		(K)	67T20	IB3
65A10	IB5	(K)	67T30	IB3
65B20	IB5	(K)	67T40	IB3
65B40	IB5	(K)	67T50	IB3
65C20	IB5	(K)	67U20	IB3
65C40	IB5	(K)	67U30	IB3
65D20	IB5	(K)	67U40	IB3
65D40	IB5	(K)	67U50	IB3
65E20	IB5		67V20	IB3
65E40	IB5		67V40	IB3
65F20	IB5	(K)	67W20	IB3
65F40	IB5	(K)	67W40	IB3
65G40	IIIC	(K)	67Z40	IB3
65H20	IIIC	(K)	67Z50	IB3
65H40	IIIC			
65J20	IIIC		68A10	IB3
65J40	IIIC	(K)	68B20	IB3
65K20	IIIC	(K)	68B40	IB3
65K40	IIIC	(K)	68D20	IB3
65Z50	IVB	(K)	68D40	IB3
		(K)	68E20	IB3
67A10	IB3	(K)	68E40	IB3
67B20	IB3	(K)	68F20	IB3
67C20	IB3	(K)	68F30	IB3
(K) 67D20	IB3	(K)	68F40	IB3
67E40	IB3	(K)	68G20	IB3
67E50	IB3	(K)	68G30	IB3
(K) 67F20	IB3	(K)	68G40	IB3
(K) 67F40	IB3	(K)	68H20	IB3
(K) 67G20	IB3	(K)	68H40	IB3
(K) 67H20	IB3			
(K) 67K20	IB3		71N20	IIID
67L40	IB3		71N40	IIID
67L50	IB3		71N50	IIID
67M20	IB3		71T20	IID

MOS	Functional Category	MOS	Functional Category
76A10	IIA		
76J30	IIA		
76J40	IIA		
76J50	IIA		
76M20	IIB		
76N40	IIA		
76P20	IIA		
76P40	IIA		
76Q20	IIC		
76Q40	IIC		
76R20	IIC		
76R40	IIC		
76S20	IIC		
76S40	IIC		
76T20	IIC		
76T40	IIC		
76U20	IIC		
76U40	IIC		
76V20	IIA		
76W20	IID		
76W40	IID		
76W50	IID		
76X20	IIE		
76X40	IIE		
76Y20	IIA		
76Y30	IIA		
76Y40	IIA		
76Z50	IIA		
91R10	IIE		
91R20	IIE		
91P40	IIE		
92C20	IID		
92C40	IID		
94C20	IIE		
94C40	IIE		
94D20	IIE		
94D40	IIE		

List D

Logistic MOSs which substitute for critical logistic MOS

	32...	...
	32...	...
	32E..	...
	32.2.	...
	3232	...
	32...	
	32...	
	32T40	
	3.5..	
	3.3.	
	35...	
	35...	
	35...	
	35.5.	
	45...	
	45...	
	45.20	
	45.2.	
	4562.	
	45.2.	
	45...	
	45...	
	45..4.	
31B20	45.4.	
31.2.	45.4.	
31.2.	45...	
31B20	45.34.	
31L20	45.4	
31.4.		
31...	57.2.	
31.4.	57.2.	
31.4.	57..0	
31.4.	57.2.	
31J40	57130	
31.5.	57.40	
31.50	57.4.	
31.5.	57.2.	
31.50	57.5.	

List B

Substitutes for Critical MOSs

NOTE: Not all authorized substitutions are reciprocal. There-
fore this index must be followed literally in determining
potential substitutes for an MOS.

NOTE: Some authorized substitutes for critical logistic MOSs
are not logistic MOSs. These are designated by two
asterisks.

MOS	Authorized Substitutes
26B20	C20, D20, E20, H20, J20, L20, M20, N20, P20, T20, W20
26C20	B20, D20, E20, H20, J20, L20, M20, N20, P20, T20, W20
26D20	B20, C20, E20, H20, J20, L20, M20, N20, P20, T20, W20
26F20	B20, C20, D20, H20, J20, L20, M20, N20, P20, T20, W20
26H20	B20, C20, D20, F20, J20, L20, M20, N20, P20, T20, W20
26J20	B20, C20, D20, E20, H20, L20, M20, N20, P20, T20, W20
26L20	B20, C20, D20, E20, H20, J20, M20, N20, P20, T20, W20
26M20	B20, C20, D20, E20, H20, J20, L20, N20, P20, T20, W20
26N20	B20, C20, D20, E20, H20, J20, L20, M20, P20, T20, W20
26P20	B20, C20, D20, E20, H20, J20, L20, M20, N20, T20, W20
26T20	B20, C20, D20, E20, H20, J20, L20, M20, N20, P20, W20

26B30	C30, H30, J30, T30
26C30	B30, H30, J30, T30
26H30	B30, C30, J30, T30
26J30	B30, C30, H30, T30
26T30	B30, C30, H30, J30
26E40	J40, L40, P40, T40, W40
26J40	E40, L40, P40, T40, W40
26L40	E40, J40, P40, T40, W40
26P40	E40, J40, L40, T40, W40
26T40	E40, J40, L40, P40, W40
26P50	T50, W50
26T50	P50, W50
31E20	B20, J20, K20, L20, M20**, N20**, R20
31J20	B20, E20, K20, L20, M20**, N20**, R20
31K20	B20, E20, J20, L20, M20**, N20**, R20
31L20	B20, E20, J20, K20, M20**, N20**, R20

31E40	G40, J40, K40, L40, M40**, N40**, W40, Z40**
31J40	E40, G40, K40, L40, M40**, N40**, W40, Z40**
31K40	E40, G40, J40, L40, M40**, N40**, W40, Z40**
31L40	E40, G40, J40, K40, M40**, N40**, W40, Z40**
31J50	G50, K50, W50, Z50**
31K50	G50, J50, W50, Z50**
32B20	C20, D20**, E20, F20, G20
32C20	B20, D20**, E20, F20, G20
32E20	B20, C20, D20**, F20, G20
32F20	B20, C20, D20**, E20, G20
32G20	B20, C20, D20**, E20, F20
32B40	C40, D40**, E40, F40, G40, Z40**
32C40	B40, D40**, E40, F40, G40, Z40**
32E40	B40, C40, D40**, F40, G40, Z40**
32F40	B40, C40, D40**, E40, G40, Z40**
32G40	B40, C40, D40**, E40, F40, Z40**

36H20	36C20**, 36D20, 36E20**, 36G20, 36K20**
36H40	36C40**, 36D40, 36E40**, 36K40**
36H50	36C50**, 36D50
45G20	B20, C20, D20, E20, F20, H20, J20
45H20	B20, C20, D20, E20, F20, G20, J20
45J20	B20, C20, D20, E20, F20, G20, J20
45G40	B40, C40, E40, H40, J40, Z40
45H40	B40, C40, E40, G40, J40, Z40
45J40	B40, C40, E40, G40, H40, Z40
67D20	C20
67G20	K20
67H20	K20
67N20	U20, V20
67N30	U30
67N40	U40, V40
67N50	E50, L50, R50, T50, U50, Z50

67T50	E50, L50, N50, R50, U50, Z50
67U50	E50, L50, N50, R50, T50, Z50
67Z50	E50, L50, N50, R50, T50, U50

List P

Valid Non-Logistic MOSs

Officers

0001	1203	2232	3108
0002	1204	2239	3111
0003	1210	2260	3112
0005	1328	2265	3113
0006	1330	2310	3115
0009	1331	2330	3116
0039	1337	2334	3125
0140	1342	2401	3126
0200	1363	2402	3128
0210	1367	2420	3129
0213	1415	2421	3130
0215	1542	2430	3131
0220	1543	2431	3139
0221	1560	2500	3150
0400	1980	2517	3151
0410	1981	2518	3152
0420	1982	2520	3153
0430	1983	2548	3160
0500	1984	2610	3167
0503	1985	2615	3168
0590	1986	2622	3170
0663		2701	3171
0668	2010	2715	3172
	2011	2720	3173
1120	2015	2723	3174
1154	2019	2800	3175
1172	2025	2801	3176
1174	2030	2900	3177
1176	2042	2910	3178
1177	2110	2920	3179
1178	2120		3180
1180	2136	3000	3200
1181	2145	3004	3201
1183	2162	3005	3202
1187	2163	3006	3203
1190	2167	3012	3306
1191	2170	3100	3307
1193	2200	3101	3308
1198	2210	3105	3309
1199	2230	3107	3310

A15

3311	7004	9000	941A
3314	7010	9100	951A
3315	7020	9110	951B
3318	7052	9121	951C
3325	7110	9210	961A
3327	7130	9224	962A
3340	7140	9300	971A
3350	7240	9301	972A
3360	7242	9303	981A
3416	7300	9305	982A
3418	7312	9306	983A
3420	7314	9307	988A
3430	7317	9308	
3431	7318	9309	
3437	7319	9310	031A
3442	7320	9316	051A
3443	7330	9318	052A
3445	7360	9330	053A
3446	7423	9332	061B
3448	7501	9335	061C
3449	7601	9414	062B
3502	7611	9511	062C
3506	7700	9601	062D
3606	7740	9604	001A
	7860	9610	002A
4112	7869	9620	003A
4114	7881	9630	004A
4210	7899	9640	
4300	7900	9662	
4312	7902	9666	
4360	7915	9668	
4371	7922		
4891	7930	Warrant	
4940	7940	Officers	
4942	7960		
		201A	
5000	8000	211A	
5241	8101	214E	
5310	8103	214F	
5400	8104	284A	
5503	8105	351A	
5505	8127	521A	
5522	8128	711A	
5525	8130	712A	
5900	8204	713A	
	8311	721A	
6010	8400	741B	
6100	8500	741C	
6101	8510	811A	
6200	8511	821A	
6201	8521	831A	
6302	8605	913A	
6400		915A	
6410		919A	

List Q

Valid Logistic MOSs

Officers

MOS	Functional Category	MOS	Functional Category
0600	IV	4000	II
0609	III	4010	IV
0612	III	4015	II
0615	III	4120	II
0660	III	4130	II
0692	III	4200	IV
0693	III	4201	II
0694	III	4220	II
0706	III	4222	IV
0715	III	4223	IV
0716	III	4310	II
0717	III	4313	II
0718	III	4320	II
0720	III	4400	II
0730	III	4403	IV
0735	I	4404	II
0736	I	4415	I
0737	I	4419	II
0740	III	4450	II
0750	III	4470	II
0753	III	4474	II
0754	I	4475	II
0801	III	4490	II
0804	III	4500	II
0815	III	4510	II
0820	III	4512	IV
0823	III	4513	IV
0825	III	4514	II
		4515	IV
1723	II	4516	I
		4530	II
2624	IV	4600	IV
2625	IV	4601	IV
2640	III	4606	I
		4620	II
3221	II	4714	II
3231	II	4800	I
3316	II	4801	IV

MOS	Functional Category	MOS	Functional Category
4802	IV	261A	I
4803	I	262A	I
4809	I	271A	I
4815	I	281A	I
4818	I	282A	I
4820	IV	283A	I
4823	I	285A	I
4826	I	286A	I
4829	IV		
4830	I	301A	I
4851	I	341A	I
4852	I	351A	I
4854	I	411A	II
4855	I	421A	I
4856	I	441A	I
4857	I	461A	I
4861	I		
4861	I	551A	III
4862	I	551B	III
4863	II	551C	III
4872	I	551D	III
4874	II	562A	III
4890	II	561A	III
		561B	III
		581A	III
7210	I		
7211	I		
7221	I	621A	I
7315	IV	631A	I
7421	IV	632A	I
7422	IV	671A	I
7503	I	671B	I
7902	II	781A	III
7932	II		

WARRANT OFFICERS

MOS	Functional Category
203A	I
221B	I
222B	I
223C	I
241L	I
241P	I
251B	I
251C	I
252A	I

List V

Organizational Stratification

The list contains the designations of the organizations comprising USAREUR and their groupings and subgroupings. The codes indicated contain two characters. The first is the Command Group Code and the second is the first character of the Sub-Command Code. Where the second character is shown as an asterisk in the listing below it indicates that the second character can be any character.

Organizations	Sub Command Code
1. 3rd Infantry Division	73
2. 8th Infantry Division	58
3. 24th Infantry Division	71
4. 3rd Armored Division	53
5. 4th Armored Division	74
6. 2nd Armored Cavalry Regiment	7P
7. 3rd Armored Cavalry Regiment	5V
8. 14th Armored Cavalry Regiment	5N
9. V Corps Trs (less Armd Cav)	5* less 53, 58, 5N and 5V
10. VII Corps Trs (less Armd Cav)	7* less 71, 73, 74 and 7P
11. Berlin Brigade	22
12. SETAF	21
13. 32nd AADC	32
14. 56th Arty Group	10
15. 10th Abn Spec. Forces	15

	Organizations	Sub Command Code
16.	USACOMZEUR	4*
17.	Seventh Army Support Command	6*
18.	USAREUR/Seventh Army Trs	01 & 04
19.	Engineer Command EUR (Prov)	18
20.	9th Hospital Center	16
21.	66th MI Group	13
22.	513th MI Group	14
23.	5th Psy Opns Bn	12
24.	SASCOM	11
25.	USAREUR Assgd Act	02

	Subgroups	Organizations	Codes
1.	Infantry Divisions	1,2,3	73+58+71
2.	Armored Divisions	4,5	53+74
3.	Armored Cavalry Regiments	6,7,8	5N+5V+7P
4.	V Corps	2,4,7,8,9	5*
5.	VII Corps	1,3,5,6,10	7*
6.	Seventh Army	1,2,3,4,5,6,7,8, 9,10,13,14,17,18	5*+6*+7*+10 +32+01+04

	Groups	Organizations	Codes
1.	Major Combat Units	1,2,3,4,5,6,7,8,9,10	5*+7*
2.	Other Combat Units	11,12,13,14,15	14+15+2*+3*

Groups	Organizations	Codes
3. Major Support Commands	16,17,18,19,20	01+04+16+13 +4*+6*
4. Other Organizations	21,22,23,24,25	02+11+12+13+14
5. USAREUR	All	All

* - Any second character

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List W

Functional Categories

I. MAINTENANCE

   a. Electronic/Electrical
       1. Missile Equipment
       2. Comunications Equipment
       3. Special Electronic Equipment
       4. Fire Distribution Systems
       5. Electrical Equipment
       6. Other

   b. Mechanical
       1. Armament
       2. Missile Equipment
       3. Aircraft
       4. Automotive
       5. Railroad Equipment
       6. Metal Working
       7. Precision Devices
       8. Other

   c. Soft Goods

   d. Not Classified

II. SUPPLY

   a. General

   b. Ammunition

   c. Repair Parts

   d. Petroleum

   e. Subsistence

III. TRANSPORTATION

   a. Motor Transport

   b. Cargo Handling

   c. Rail Transport

   d. Not Classified

IV. LOGISTICS - GENERAL

   a. Manual

   b. Non-Manual