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AUTOMATED MOBILITY PACKING/LOAD LISTS (DATA AND FORMAT
EVALUATION)(U) AIR FORCE LOGISTICS MANAGEMENT CENTER
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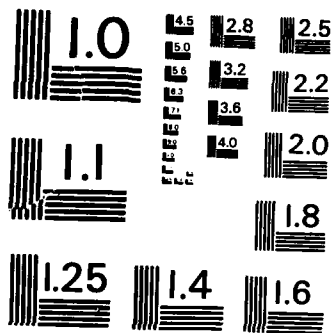
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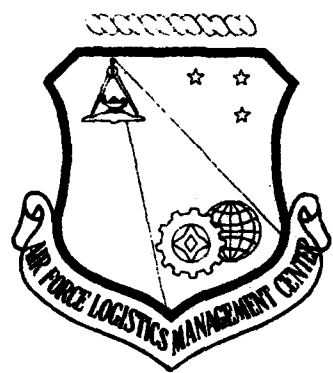


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AIR FORCE LOGISTICS MANAGEMENT CENTER

AD-A166 654



AUTOMATED MOBILITY PACKING/LOAD LISTS
 (DATA AND FORMAT EVALUATION)

PROJECT NUMBERS: LX841131 and LX841132

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MARCH 1986

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ABSTRACT

This report identifies the changes to the mobility packing list and load list formats which are to be incorporated into the redesigned on-line COMPES. The redesign is currently under development.

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EXECUTIVE SUMMARY

The Automated Mobility Packing List and Automated Mobility Load List (Data and Format Evaluation) projects were conducted simultaneously. This final report consolidates the findings.

The objective of these projects was to determine data elements and output formats for future automated mobility packing lists and mobility load lists.

ANG, AFRES, MAJCOMs, and bases were polled via message, bases were visited, and packing/load list users were interviewed to obtain recommendations for changes.

The proposed data elements and output formats were submitted to the COMPES LOGMOD-B Functional System Development Team (FSDT) for evaluation. The FSDT evaluated the recommendations and determined which changes would be included in the redesigned (on-line) COMPES.

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CHAPTER 1

THE PROBLEM

BACKGROUND

The existing mobility packing list and mobility load list were designed during the initial COMPES development during 1981. Both of these products have had few changes since their initial development. The AFLMC Directorate of Logistics Plans (LGX) initiated these projects to determine whether these products were still functional for the end users or required update. The COMPES LOGMOD-B redesign, now in progress, provided an ideal opportunity to change the automated packing/load lists, if required.

PROBLEM STATEMENT

The existing automated mobility packing list and mobility load list may not adequately fill the needs of the end user. If streamlined and improved products were available, unit level mobility personnel could more quickly identify assets required for mobility operations.

CHAPTER 2

DEVELOPMENT

APPROACH

for p. iii

A message was sent to all MAJCOM LGX offices (or equivalent), including ANG and AFRES, requesting comments and recommendations on changes to the mobility packing list and mobility load list as identified in AFR 28-345 (COMPES LOGMOD-B Users Manual). The message requested unit LGXs survey base level COMPES users (Maintenance, Supply, Transportation, and others), and forward replies to the AFLMC. <

Draft packing lists and load lists were developed based upon recommendations received. Selected bases were visited and interviews were conducted with unit personnel who prepared/received cargo for mobility deployments. Based on interview results, the packing/load lists were revised.

The revised draft packing/load lists were sent to the ANG, AFRES, and all MAJCOMs for review and comments.

Finally, the revised draft packing/load lists were submitted to the COMPES LOGMOD-B Functional System Development Team (FSDT) for evaluation.

RESULTS

The end users of the automated mobility packing/load lists provided many valuable recommendations and comments for making these products more useful. However, most MAJCOMs requested the final decision be made by the FSDT.

The recommendations and proposed formats were submitted to the FSDT who accepted many of the changes. These changes will be incorporated in the new on-line version of COMPES. For a detailed description and a sample of the revised mobility packing/load lists see Appendices A and B.

One proposed change not accepted by the FSDT, but desired by the majority of the users interviewed, entailed explaining in clear text the codes representing special handling instruction, special loading instructions, and hazard information. The FSDT rejected this idea because; "each time a change to one of these codes would occur, a change to the COMPES mobility packing list and mobility load list programs would need to be made." However, the hazard codes used on these COMPES products identify only the Load and Storage Groups established in AFR 71-4. Even though AFR 71-4, Preparation of Hazardous Materials for Military Air Shipment, frequently changes, the description for each Load and Storage Group remains constant. Therefore changes to the COMPES programs should not be required. By explaining the codes in clear text, any person viewing the packing list or load list would immediately recognize that a particular type of hazard is associated with an item.

Another proposed change desired by the majority of the users interviewed was the creation of a two-column data field for local unit use. The FSDT rejected this recommendation on the basis of the potential extra workload created for the logistics plans COMPES monitor. The COMPES monitor could spend countless hours updating this one data field for all COMPES users on a base depending upon how frequently units changes data in this field. We concur with the FSDT decision.

An additional issue identified during unit interviews was that Mobility and peacetime cargo shipping procedures are not compatible. Under mobility procedures, mobility packing lists and load lists are the required shipping documents. Special airlift is designated to support the mobility operation. If the aircraft is diverted to some other location due to maintenance problems or higher priority, all or part of the cargo may be unloaded. The responsibility to ship this cargo to its original intended destination must now be assumed by the transportation function at the diverted location. A special airlift mission to ship the off-loaded cargo may not be available since these are normally coordinated several months in advance. The local transportation function must then rely on normal channel (day-to-day) transportation. To ship cargo using channel traffic requires an entirely different set of shipping documents (DD Forms 1149). These shipping documents require many items of information not found on the mobility packing list and load list. The required information may be obtained only from the base where the cargo shipment originated. The process of obtaining the information may be lengthy since various phone numbers must be obtained and the necessary information relayed by telephone. The transportation unit must accommodate its own base's cargo shipments as well. Eventually, after the necessary information has been obtained, the cargo is shipped.

CHAPTER 3

CONCLUSIONS/RECOMMENDATIONS

CONCLUSION

These projects supported and reinforced the efforts of the Functional System Development Team to streamline and enhance the automated mobility packing list and mobility load list. The resultant products will provide unit level mobility personnel better visibility of assets to be deployed for mobility operations.

RECOMMENDATIONS

Even though the COMPES LOGMOD-B FSDT has already evaluated the proposed changes to the automated mobility packing/load lists and has decided on the final products, the following recommendation is presented for future consideration:

Recommend including clear text explanations of hazard codes on the automated mobility packing lists and mobility load lists. (OPR: DSDO/XOX)

The research and interviews conducted during these projects also identified the following recommendation:

Recommend a study be performed to determine the feasibility of modifying or combining mobility and peacetime cargo shipping procedures. (OPR: AFLMC/CC)

ABBREVIATIONS

AFRES - Air Force Reserve
ANG - Air National Guard
CC - Container Identification Code
CCC - Cargo Category Code
CI - Critical Item
COMPES - Contingency Operation/Mobility Planning and Execution System
CUBE - Cubic Feet
DEP ECH - Deployment Echelon
DSDO - Data Systems Design Office
FAC - Functional Account Code
FRN - Force Requirement Number
FSDT - Functional System Development Team
HEL TYPE - Helicopter Type
HGT - Height
HITCH LOC - Hitch Location
HZ - Hazard Code
INC NBR - Increment Number
ITEM NBR - Item Number
ITM PRI - Item Priority
LTH - Length
LOCAL PRI INC - Local Priority Increment
LOGMOD-B - Logistics Module - Base Level
MDS - Mission Design Series
PAA - Primary Aircraft Authorization
PAS - Personnel Accounting Symbol
PCN - Product Control Number
PLAN ID - Plan Identification Number
PLT PROF - Pallet Profile
PRI INC - Priority Increment
PRIME NSN - Primary National Stock Number
QTY - Quantity
SHI - Special Handling Indicator
SLI - Special Loading Indicator
SUB NSN - Substitute National Stock Number
SUF ITM - Suffixed Item
SUF ITM NBR - Suffixed Item Number
TASK UNIT QTY - Tasked Unit Quantity
TK - Tailoring Key
TLR TYPE - Trailer Type
ULN - Unit Line Number
UIC - Unit Identification Code
UTC - Unit Type Code
WT - Weight
WTH - Width

APPENDIX A

Summary of Changes to the Mobility Load List

Line numbers used below refer to the numbers on the left column of the Revised Load List, Appendix A, Figure 2. Line numbers were added to the Current Load List, Appendix A, Figure 1, for comparison purposes.

Line 1 Not changed.

Line 2 The Wing Code was removed.

Line 3 New identifying information added was PLAN ID, ULN (instead of FRN), and MDS. ANNEX, DEPLOYMENT PHASE, and GROUP ID were deleted.

Line 4 Added to accommodate new column headings.

Lines 5-6 PAS, SLOT NBR, and TK were removed from column headings. LOCAL PRI INC was renamed INC NBR. ITM PRI was renamed ITEM NBR. PRIME NSN and SUB NSN were changed to only NSN. QTY was renamed TASK UNIT QTY and was redefined to mean the tasked quantity of a particular NSN. HZ was renamed HAZARD CODE and moved toward the right to provide emphasis. Additionally, HAZARD CODE was expanded to allow up to four codes to be identified with the highest hazard identified first. CCC was moved left one column between NOMENCLATURE and TASK UNIT QTY. WEIGHT was renamed WT. LENGTH was renamed LTH. WIDTH was renamed WTH. HEIGHT was renamed HGT. CI, SLI, and SHI exchanged column positions. REMARKS was added.

Line 7 PRIME UIC/FAC was added to the identifying information. To the right of this item is the three-digit UIC (D40), then the UIC title (EMS), then the six-digit FAC (2E3000), then the FAC title (MUNITIONS MAINT).

Lines 8-11 Display the loaded pallet. This has been rearranged from Line 20 on the Current Load List. A sample remark is also shown.

Lines 12-18 Represents the items loaded on the pallet identified in Line 8. These lines are merely reordered from Lines 7-17 on the Current Load List.

Line 17 Identifies the UIC/FAC of an additional shop providing equipment on the same pallet. The Current Load List only identifies additional shops by their four-character PAS codes.

Lines 19-20 Omitted.

Line 21 The total line was deleted, but the necessary summary data was moved to Line 8.

Lines 22-28 When a mobility load list is prepared for a piece of AGE or a vehicle, an additional LOAD PLANNING INCREMENT SUMMARY will be generated near the bottom of the page just above the optional customs statement. The following fields will be printed: ITEM TYPE with a one-character code, TLR TYPE with a one-character code, TONGUE LTH, HITCHED with a one-character code, HITCH WT, HITCH LOC, NBR BOGIES, TREAD START, TREAD LTH, SHORING with up to three characters, VENTING with a one-character code, SKIDDED ITEMS with a one-character code, HEL TYPE with a one-character code, PLT PROF with a two-character code, AXLE WEIGHT (1-6 axles), AXLE LOCATION (axles 1-6), and AXLE SPAN (axles 1-6).

Lines 29-31 Optional customs statement was broken on three lines instead of two. The extra line was added to allow for future lengthier optional statements.

Line 32 The footer line was simplified, eliminating multiple page numbers.

NOTE: Any deletions from the mobility load list are deletions from the print out only. These data elements ARE NOT removed from the database. If this data is later needed on the print outs they can once again be added.

Current Load List

1 PREPARED 08 JAN 86 13:32 MOBILITY LOAD LIST AS OF 08 JAN 86 PCN SA200-302J
 2 0437MALSQ J
 3 ANNEX: K DEPLOYMENT PHASE: UNSPECIFIED UTC: 3R4BC FRN: B2AA PAA: 18DEP GROUP ID: F4E MAINT
 5 DEP LOCAL ITM C SLOT PRIME NSN
 6 ECH PRI INC PAS PRI C NBR SUB NSN NOMENCLATURE QTY COC HZ WEIGHT LENGTH WIDTH HEIGHT CUBE TK SHI I SLI
 7 MUNITIONS MAINT 2E3000
 8 E1 0001 FCWP 01 1670008204896 PALLET 463L 1 J2D 375 88 108 3 17 A
 14 02 C 7125008721285 BIN CARGO 1 J3D 510 67 33 67 86 A
 15 03 C 7125008721285 BIN CARGO 1 J3D 690 67 33 67 86 A
 16 04 2270003103002 CYL ACETYLENE 1 J3C 18 200 8 8 49 1
 17 F0CD 01 1234567898883 TANK STOR LOX MA-1 1 D2C 28 1250 101 68 75 299
 19 MUNITIONS MAINT 2E3000
 20 FCWP 00 L 1670008204896 PALLET 463L 1 D2C 88 108 69 517
 21 ** TOTAL DEP ECH E1 LOCAL PRI INC 0001 NUMBER OF PIECES: 5 WEIGHT: 1775 CUBE: 517
 29 MILITARY EQUIPMENT BEING RETURNED TO THE UNITED STATES FOR FUTURE USE BY UNITED STATES ARMED FORCES
 30

Figure 1

32 PCN SA200-302J VERSION DATE 052985 PAGE 7 PAS FCWP PAGE 7 FAC 2E3000 PAGE 4

Revised Load List

1 DATE PREPARED 08 JAN 86 MOBILITY LOAD LIST AS OF 08 JAN 86 PCN 77777-7777
 2 437MALSQ
 3 PLAN ID 1234X UTC 3R4BC ULN ACYB2AA PAA 018 MDS P-4E
 4 TASK S S
 5 DEP INC ITEM C UNIT C L H
 6 ECH NBR NBR C NSN NOMENCLATURE COC QTY WT LTH WTH HGT CUBE I I I HAZARD CODE REMARKS
 7 PRIME UIC/FAC D40 E4S 2E3000 MUNITIONS MAINT
 8 E1 0001 L 1670008204896 LOADED PALLET D2C 1 1775 88 108 69 517 THIS PALLET CONTAINS A VARIETY OF NON MUNITION ITEMS BELONGING TO MUNITION MAINTENANCE
 9
 10
 11
 12 2E3000 MUNITIONS MAINT
 13 01 1670008204896 463L PALLET J2D 1 375 88 108 3 17 A
 14 02 C 7125008721285 BIN CARGO J3D 1 510 67 33 67 86 A
 15 03 C 7125008721285 BIN CARGO J3D 1 690 67 33 67 86 A
 16 04 2270003103002 CYL ACETYLENE J3C 1 200 8 8 49 1 18
 17 D42 AGS 2E1000 POWERED AGE SHOP
 18 01 1234567898883 TANK STOR LOX MA-1 D2C 1 1250 101 68 75 299 D H 28
 19 (omitted)
 20 (omitted)
 21 (omitted)
 22 LOAD PLANNING INCREMENT SUMMARY
 23 ITEM TLR TONGUE HITCH HITCH NBR TREAD TREAD SKIDDED HEL PLT
 24 TYPE TYPE LTH HITCHED WT LOC BOGIES START LTH SHORING VENTING ITEMS TYPE PROF
 25 T 1 10 P V
 26AXLE WEIGHT.....AXLE LOCATION.....AXLE SPAN.....
 27 1 2 3 4 5 6 1 2 3 4 5 6 1 2 3 4 5 6
 28 625 625 30 84 88 80
 29 MILITARY EQUIPMENT BEING RETURNED TO THE UNITED STATES FOR FUTURE USE BY UNITED STATES ARMED FORCES
 30
 31
 32 PCN 77777-7777 VERSION DATE 010586 PAGE 7

Figure 2

APPENDIX B

Summary of Changes to the Mobility Packing List

Line numbers used below refer to the numbers on the left column of the Revised Packing List, Appendix B, Figure 4. Line numbers were added to the Current Packing List, Appendix B, Figure 3, for comparison purposes. The changes for the packing list are the same as those for the load list with the exception of the three asterisked items below.

Line 1 Not changed.

Line 2 The Wing Code was removed.

Line 3 New identifying information added was PLAN ID, and ULN (instead of FRN), and MDS. ANNEX, DEPLOYMENT PHASE, and GROUP ID were deleted.

* Line 4 PRIME UIC/FAC line was added to the identifying information. To the right of this item is the three-digit UIC (D40), then the UIC title (EMS), then the six-digit FAC (2E3000), then the FAC title (MUNITIONS MAINT).

Line 5 Added to accommodate new column headings.

* Lines 6-7 PAS, SLOT NBR, and TK were removed from column headings. LOCAL PRI INC was renamed INC NBR. ITM PRI was renamed ITEM NBR. SUF ITM was renamed SUF ITM NBR. PRIME NSN and SUB NSN were changed to only NSN. QTY was renamed TASK UNIT QTY and was redefined to mean the tasked quantity of a particular NSN. HZ was renamed HAZARD CODE and moved toward the right to provide emphasis. Additionally, HAZARD CODE was expanded to allow up to four codes to be identified with the highest hazard identified first. CCC was moved left one column between NOMENCLATURE and TASK UNIT QTY. WEIGHT was renamed WT. LENGTH was renamed LTH. WIDTH was renamed WTH. HEIGHT was renamed HGT. CI and SHI exchanged column positions.

Line 8 Identifies the Prime UIC/FAC of shop. The Current Packing List does not identify the shop FAC or FAC Title.

Lines 9-13 Not changed.

Line 14 Identifies the UIC/FAC of an additional shop providing equipment in the same container. The Current Packing List only identifies additional shops by their four-character PAS codes.

Lines 15-17 Identify equipment for new shop.

* Line 18 The TOTAL line was removed entirely since the information was a duplication of previous information.

Lines 19-21 Optional customs statement was broken on three lines instead of two. The extra line was added to allow for future lengthier optional statements.

Line 22 The footer line was simplified, eliminating multiple page numbers.

NOTE: Any deletions from the mobility load list are deletions from the print out only. These data elements ARE NOT removed from the database. If this data is later needed on the print outs they can once again be added.

Current Packing List

1 PREPARED 08 JAN 86 13:32 MOBILITY PACKING LIST AS OF 08 JAN 86 PCN SA200-304J
 2 9437MALSQ J
 3 ANNEX: LB DEPLOYMENT PHASE: UNSPECIFIED UTC: 3R4BC FRN: B2AA PAA: 18DEP GROUP ID: F4E MAINT
 6 DEP LOCAL ITM C SUF SLOT PRIME NSN C
 7 ECH PRI INC PAS PRI C ITM NBR SUB NSN NOMENCLATURE QTY OCC HZ WEIGHT LENGTH WIDTH HEIGHT CUBE TK SHI I
 8 MUNITIONS MAINT 2E3000
 9 E1 0002 FCNP 02 C 7125000721285 BIN CARGO 1 J3D 510 67 33 67 86 A
 10 S 001 4930002639006 CABLE BATTERY 25
 11 S 002 3256700008973 SHIELD FACE 50
 12 S 003 4110006103026 GLOVES WORK 200
 13 S 004 7310003641213 APRON RUBBER 50
 14 FDCD 02 S 005 7125000721285 CLAMP 200
 16 S 006 7300030434113 HOLDER FUSE 450
 17 S 007 2270003103002 SPOOL WIRE 15
 18 ** TOTAL DEP ECH E1 LOCAL PRI INC 0002 ITM-PRI 02 WEIGHT: 510 CUBE: 86
 19 MILITARY EQUIPMENT BEING RETURNED TO THE UNITED
 20 STATES FOR FUTURE USE BY UNITED STATES ARMED FORCES
 21

Figure 3

22 PCN SA200-304J VERSION DATE 052985 PAGE 2 PAS FCMP PAGE 2 PAC 2E3000 PAGE 1

Revised Packing List

1 DATE PREPARED 08 JAN 86 MOBILITY PACKING LIST AS OF 08 JAN 86 PCN ?????-????
 2 437MALSQ
 3 PLAN ID 1234X UTC 3R4BC ULN ACYB2AA PAA 018 MDS F-4E
 4 E1 0002 PRIME UIC/FAC D40 EMS 2E3000 MUNITIONS MAINT
 5 SUF TASK S
 6 DEP INC ITEM ITM C UNIT C H
 7 ECH NBR NBR NBR C NSN NOMENCLATURE OCC QTY WT LTH WTH HGT CUBE I I HAZARD CODE
 8 D40 EMS 2E3000 MUNITIONS MAINT
 9 E1 0002 02 C 7125000721285 BIN CARGO J3D 1 510 67 33 67 86 A
 10 001 S 4930002639006 CABLE BATTERY D2C 25
 11 002 S 3256700008973 SHIELD FACE C2Y 50
 12 003 S 4110006103026 GLOVES WORK D4F 200
 13 004 S 7310003641213 APRON RUBBER C2D 50
 14 D42 AGS 2E1000 POWERED AGE SHOP
 15 005 S 7125000721285 CLAMP J3D 200
 16 006 S 7300030434113 HOLDER FUSE D3C 450
 17 007 S 2270003103002 SPOOL WIRE J3C 15
 18 (omitted)
 19 MILITARY EQUIPMENT BEING RETURNED
 20 TO THE UNITED STATES FOR FUTURE
 21 USE BY UNITED STATES ARMED FORCES

Figure 4

22 PCN ?????-???? VERSION DATE 010586 PAGE 2

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