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Logistics Product Data Reports Handbook

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May 2013

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Logistics Product Data Reports Handbook

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Table of Contents

Chapter 1, General Requirements for Report Generation	1
1.0 Introduction	1
1.1 Common Selection Criteria	1
1.2 Subordinate LCN/ALC.....	2
1.3 Task Referencing Or Subtask Referencing	3
Chapter 2, Annual Man Hours by Skill Specialty Code and Level of Maintenance (LSA-001)	4
2.0 Introduction	4
2.1 Report Scope	4
2.2 Processing.....	4
2.3 Report Format	4
2.4 Report Sequence.....	5
2.5 Data Sources See Table 1.....	5
Chapter 3, Maintenance Allocation Chart (LSA-004)	9
3.0 Introduction	9
3.1 Report Scope	9
3.2 Processing.....	9
3.3 Report Format	10
3.4 Report Sequence.....	10
3.5 Data Sources See Table 2.....	11
Chapter 4, Support Items List (LSA-009).....	19
4.0 Introduction	19
4.1 Report Scope	19
4.2 Processing.....	19
4.3 Report Format	19
4.4 Report Sequence.....	19
4.5 Data Sources See Table 3.....	20
Chapter 5, Task Analysis Report (LSA-019).....	23
5.0 Introduction	23
5.1 Report Scope	23
5.2 Processing.....	23
5.3 Report Format See Figure 4.	24
5.4 Report Sequence.....	24
5.5 Data Sources See Table 4.....	24
Chapter 6, Maintenance Plan Report (LSA-024).....	32
6.0 Introduction	32
6.1 Report Scope	32
6.2 Processing.....	33
6.3 Report Format	36
6.4 Report Sequence.....	36
6.5 Data Sources.....	36
Chapter 7, Packaging Requirements Data Report (LSA-025).....	44
7.0 Introduction	44
7.1 Report Scope	44
7.2 Processing.....	44
7.3 Report Format	44
7.4 Report Sequence.....	44
7.5 Data Source	45
Chapter 8, Indentured Parts List Report (LSA-030)	48
8.0 Introduction	48
8.1 Repair Part and Special Tool List Report Scope	48
8.2 Illustrated Parts Breakdown	50
8.3 Stockage List Type Four Report	51

Chapter 9, Defense Logistics Agency Logistics Information Service Provisioning Screening Report (LSA-032)	61
9.0 Introduction	61
9.1 Report Definitions	61
9.2 Report Scope	62
9.3 Processing.....	62
9.4 Report Format	63
9.5 Report Sequence.....	63
9.6 Data Source See Table 8.	63
Chapter 10, Authorization List Items Report (LSA-040)	67
10.0 Introduction	67
10.1 Option 1 – Lists	67
10.2 Option 2 – Stockage List Type Three	68
Chapter 11, Reliability Centered Maintenance Report (LSA-050).....	75
11.0 Introduction	75
11.1 Report Scope	75
11.2 Processing.....	76
11.3 Report Format	77
11.4 Report Sequencing	77
11.5 Data Sources.....	78
Chapter 12, Failure Mode, Effects, And Criticality Analysis (FMECA) Report (LSA-056)	85
12.0 Introduction	85
12.1 Selection.....	85
12.2 Processing.....	86
12.3 Report Format	87
12.4 Report Sequencing	88
12.5 Data Source	88
Chapter 13, Task Code to SMR Code Verification Report (LSA-068)	96
13.0 Introduction	96
13.1 Report Scope	96
13.2 Processing.....	96
13.3 Report Format	96
13.4 Report Sequence.....	96
13.5 Data Sources.....	96
Chapter 14, Support Equipment Recommendation Data Report (LSA-070).....	98
14.0 Introduction	98
14.1 Report Scope	98
14.2 Processing.....	98
14.3 Report Format	98
14.4 Report Sequence.....	99
14.5 Data Sources.....	99
Chapter 15, Support Equipment Candidate List Report (LSA-071)	119
15.0 Introduction	119
15.1 Report Scope	119
15.2 Processing.....	119
15.3 Report Format	119
15.4 Report Sequence.....	119
15.5 Data Sources.....	119
Chapter 16, Test, Measurement And Diagnostic Equipment Requirements Report (LSA-072)	122
16.0 Introduction	122
16.1 Report Scope	122
16.2 Processing.....	122
16.3 Report Format	122
16.4 Report Sequence.....	123
16.5 Data Sources.....	123

Chapter 17, Consolidated Manpower, Personnel And Training Report (LSA-075).....	129
17.0 Introduction	129
17.1 Report Scope	129
17.2 Processing.....	129
17.3 Report Format	130
17.4 Report Sequence.....	130
17.5 Data Sources.....	130
Chapter 18, Calibration And Measurement Requirement Summary (CMRS) Report (LSA-076)	134
18.0 Introduction	134
18.1 Report Scope	134
18.2 Processing.....	134
18.3 Report Format	135
18.4 Report Sequence.....	136
18.5 Data Sources.....	136
Chapter 19, Hazardous Material Report (LSA-078).....	141
19.0 Introduction	141
19.1 Report Scope	141
19.2 Processing.....	141
19.3 Report Format	141
19.4 Report Sequence.....	141
19.5 Data Source	141
Chapter 20, Bill Of Materials Report (LSA-080)	144
20.0 Introduction	144
20.1 Report Scope	144
20.2 Processing.....	144
20.3 Report Format	145
20.4 Report Sequence.....	146
20.5 Data Source	146
Chapter 21, Indenture Structure Tree Report (LSA-126)	149
21.0 Introduction	149
21.1 Report Scope	149
21.2 Processing.....	149
21.3 Report Format	149
21.4 Report Sequence.....	149
21.5 Data Source	150
Chapter 22, Provisioning Parts List Index Report, (LSA-151).....	153
22.0 Introduction	153
22.1 Report Scope	153
22.2 Processing.....	153
22.3 Report Format	153
22.4 Report Sequence.....	153
22.5 Data Source See Table 21.	153
Chapter 23, Provisioning List Item Sequence Number Assignment/Reassignment Report (LSA-152).....	156
23.0 Introduction	156
23.1 Report Scope	156
23.2 Processing.....	158
23.3 Report Format	159
23.4 Report Sequence.....	159
23.5 Data Sources See Table 22.....	159
Chapter 24, Provisioning Requirements (LSA-036).....	161
24.0 Introduction	161
24.1 Report Scope	161
24.2 Processing.....	161
24.3 Report Format	165
24.4 Report Sequence.....	165
24.5 Data Sources See Table 23.....	166

Chapter 25, Transportability Report (LSA-085).....	182
25.0 Introduction	182
25.1 Report Scope	182
25.2 Processing.....	182
25.3 Report Format See Figure 24.	182
25.4 Report Sequence.....	182
25.5 Data Sources.....	182
Chapter 26, Provisioning Related Reports	194
26.0 Introduction	194
26.1 Provisioning Reports	194
Appendix A, Contracting for Logistics Product Data Reports	A1
1.0 Introduction	A1
2.0 Logistics Product Data Reports Contracting Methodology.....	A1
Appendix B, List of Acronyms	B1

List of Figures

Figure 1 – Annual Man-hours by Skill Specialty Code and Level of Maintenance (Page 1 of 2).....	7
Figure 2 – Maintenance Allocation Chart (Page 1 of 6)	13
Figure 3 – Support Items Validation Report.....	22
Figure 4 – Task Analysis Report (Page 1 of 4).....	28
Figure 5 – Maintenance Plan Report (Page 1 of 4).....	40
Figure 6 – Packaging Requirements Data Report.....	47
Figure 7 – Indentured Parts List (Page 1 of 6).....	55
Figure 8 – Defense Logistics Agency Logistics Information Service Provisioning Screening Report (Page 1 of 2).....	65
Figure 9 – Authorization List Items Report (Page 1 of 4)	71
Figure 10 – Reliability Centered Maintenance Report (Page 1 of 3).....	82
Figure 11 – Failure Mode, Effects and Criticality Analysis Report (Page 1 of 4).....	92
Figure 12 – Task Code to SMR Code Verification Report.....	97
Figure 13 – Support Equipment Recommendation Data Report (Page 1 of 12).....	107
Figure 14 – Support Equipment Candidate List Report.....	121
Figure 15 – TMDE Requirements Report (Page 1 of 2)	127
Figure 16 – Consolidated Manpower, Personnel and Training Report (Page 1 of 2).....	132
Figure 17 – Calibration Maintenance Requirements Summary Report (Page 1 of 2)	139
Figure 18 – Hazardous Materials Report	143
Figure 19 – Bill of Materials Report (Page 1 of 2).....	147
Figure 20 – Indenture Tree Structure Report (Page 1 of 2)	151
Figure 21 – Provisioning Parts List Index Report.....	155
Figure 22 – Provisioning List Item Sequence Number Assignment/Reassignment Report.....	160
Figure 23 – Provisioning Requirements Report (All Hardcopy Options) (Page 1 of 12).....	170
Figure 24 – Transportability Report (Page 1 of 6).....	188

List of Tables

Table 1 – Data Sources for Annual Man-hours by Skill Specialty Code and Level of Maintenance Report	5
Table 2 – Data Sources for the Maintenance Allocation Chart	11
Table 3 – Data Sources for Support Items List.....	20
Table 4 – Data Sources for Task Analysis Report	24
Table 5 – Data Sources for the Maintenance Plan Report	36
Table 6 – Data Sources for Packaging Data Requirements Report.....	45

Table 7 – Data Sources for the Indentured Parts List Report	52
Table 8 – Data Sources for the Defense Logistics Agency Provisioning Screening Report.....	63
Table 9 – Data Sources for the Authorized List Items Report.....	68
Table 10 – Data Sources for Reliability Centered Maintenance Report.....	78
Table 11 – Data Sources for the Failure Mode, Effects and Criticality Analysis Report	88
Table 12 – Data Sources for the Task Code to SMR Verification Report	96
Table 13 – Data Sources for the Support Equipment Recommendation Data Report	99
Table 14 – Data Sources for the Support Equipment Candidate List Report	120
Table 15 – Data Sources for the TMDE Requirements Report	123
Table 16 – Data Sources for the Consolidated Manpower, Personnel and Training Report	130
Table 17 – Data Sources for the Calibration Maintenance Requirements Summary Report.....	136
Table 18 – Data Sources for the Hazardous Materials Report.....	141
Table 19 – Data Sources for the Bill of Materials Data Report.....	146
Table 20 – Data Sources for the LCN/PCCN Indenture Tree Structure Report	150
Table 21 – Data Sources for the Provisioning Parts List Index Report	154
Table 22 – Data Sources for the Provisioning List Item Sequence Number Assignment/Reassignment Report.....	159
Table 23 – Data Sources for the Provisioning Requirements Report	166
Table 24 – Data Sources for the Transportability Report	182

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Chapter 1, General Requirements for Report Generation

1.0 Introduction

This document describes a set of standardized reports that can be generated using the logistics product data elements contained in GEIA-STD-0007-B. Each report is defined by selection options, processing, format, report sequence, and data sources. The selection options paragraph identifies recommended mandatory and optional selections that can be made by the user to tailor the report content. The processing paragraph identifies qualifying criteria for report data, report calculations, and specific instructions regarding how the data should be presented on the report. Each report has a sample report showing its format. Report sequences specify the sort criteria for a given report, and each Part/Section within a report. There is an attached listing of data sources for the elements that are on a report. The listing provides the report header for each element; and its GEIA-STD-0007-B data element/attribute along with the appropriate entity. The data source listings were developed by viewing each report in a left-to-right, top-to-bottom sequence. If an element shows up more than once on a report and each subsequent occurrence is pulled from the same GEIA-STD-0007-B Entity as the previous one, then that element is only listed once in the data source listing. However, if an element is listed more than once and each occurrence is pulled from different GEIA-STD-0007-B Entities, then that element will be listed for each report occurrence.

Report development can be accomplished via a manual process or via software. The latter approach is recommended since software is available on the market that meets the requirements for each of the reports in this handbook.

1.1 Common Selection Criteria

1.1.1 For a majority of the reports there are 8 common selections. These common selections are

end_item_acronym_code,
logistics_support_analysis_control_number,
alternate_logistics_support_analysis_control_number_code,
logistics_support_analysis_control_number_type,
usable_on_code,
service_designator_code,
operations_and_maintenance_level_code, and
item_category_code.

1.1.2 *end_item_acronym_code.* *logistics_support_analysis_control_number* selections must specify an *end_item_acronym_code* parameter.

1.1.3 *logistics_support_analysis_control_number.* *logistics_support_analysis_control_number* selections may have both a start and a stop *logistics_support_analysis_control_number*. If a start and stop *logistics_support_analysis_control_number* are selected then it will include all *logistics_support_analysis_control_number*'s that fall within that range of *logistics_support_analysis_control_number*'s selected, unless start and stop are equal, in which case, just include the single *logistics_support_analysis_control_number*. If a start *logistics_support_analysis_control_number* is selected but not a stop *logistics_support_analysis_control_number* then only that *logistics_support_analysis_control_number* leg will be included. For selections from the "A", "B", "C", "F", "G", and "J" entities, which may have data under combinations of functional and physical *logistics_support_analysis_control_number*'s, the following rules apply:

1.1.3.1 If the report selection specifies a *logistics_support_analysis_control_number_type* of "F", an attempt to match each qualified *logistics_support_analysis_control_number* to the Entity XG_Functional_Physical_Logistics_Support_Analysis_Control_Number_Mapping_data functional/physical *logistics_support_analysis_control_number* mapping entity is first performed. If a match is found in this entity, then report data is extracted under the physical

logistics_support_analysis_control_number equivalent. The Functional *logistics_support_analysis_control_number*, however, is displayed on the report. If no match for a functional *logistics_support_analysis_control_number* is found, then search for the report data for the non-matched *logistics_support_analysis_control_number* is conducted using the functional *logistics_support_analysis_control_number* value directly.

1.1.3.2 If the report selection specifies a "P" *logistics_support_analysis_control_number_type*, the search for report data is conducted directly under the appropriate entities for report generation. It will not be necessary to search the Entity XG_Functional_Physical_Logistics_Support_Analysis_Control_Number_Mapping_Data for functional equivalent *logistics_support_analysis_control_number*'s.

1.1.4 *alternate_logistics_support_analysis_control_number_code*. When a selection is made with a specific *alternate_logistics_support_analysis_control_number_code*, only items matching the selected *alternate_logistics_support_analysis_control_number_code* are displayed. If the *alternate_logistics_support_analysis_control_number_code* is left blank on a selection, then other report qualifiers are used.

1.1.5 *usable_on_code*. The *usable_on_code* is mandatory for most reports and is used to identify specific model(s) of the end item. It is used to identify the model/configuration relationship of each *logistics_support_analysis_control_number* comprising a system/equipment and to control these relationships for report creation. In accordance with Entity XC, each configuration/model is assigned a unique *usable_on_code* at the system/end item level *logistics_support_analysis_control_number*. Each individual assembly/component/piece part is also "linked" to the assigned *usable_on_code* of the model of which it is applicable through entities XF and HO. When an assembly/component/piece part is applicable to more than one configuration/model, then multiple *usable_on_code*'s are "linked" to the component for a single *logistics_support_analysis_control_number* and *alternate_logistics_support_analysis_control_number* via entities XF and HO. This eliminates the requirement of duplicating analysis and related data, merely because an item has application to multiple configurations/models.

1.1.6 *service_designator_code*. For selections, choosing a *service_designator_code* of A, F, N, or M results in the selection of the matched *service_designator_code*'s and X and J codes. Choosing code T results in selection of T and J. Choosing X, J, S, or O results in only those codes being selected. *service_designator_code*'s are interpreted as follows:

A	ARMY	T	FAA
N	NAVY	S	National Security Agency
F	AIR FORCE	Y	COAST GRD
M	MARINES	J	FAA/ALL Military
X	ALL SERV	O	OTHER

1.1.7 *operations_and_maintenance_level_code*. The *operations_and_maintenance_level_code* will interpret the 3rd position of the *task-code* to produce the requested report. See GEIA-STD-0007 for allowable codes.

1.1.8 *item_category_code*. The default value for selectable *item_category_code*'s is all applicable *item_category_code*'s. Each report description will denote allowable *item_category_code*'s. If *item_category_code*'s are selectable but not denoted for the report, then all *item_category_code*'s defined in GEIA-STD-0007, Appendix A are allowed.

1.2 Subordinate LCN/ALC

Subordinate *logistics_support_analysis_control_number/alternate_logistics_support_analysis_control_number_code* selections can be of use when multiple configurations, or alternate design and maintenance concepts, have been included as part of the logistics product data for an equipment. The *alternate_logistics_support_analysis_control_number_code* specified for the subordinate selection(s) for

any *logistics_support_analysis_control_number* within the *logistics_support_analysis_control_number* range overrides the basic *alternate_logistics_support_analysis_control_number_code* selection. The output report will include the alternate assembly(s) requested including its subordinate items, if applicable. Once the alternate assembly and their breakdown have been selected, the process will revert back to the configuration and *logistics_support_analysis_control_number* range specified on the basic selection. For example, if the basic selection is *logistics_support_analysis_control_number* = A, *alternate_logistics_support_analysis_control_number_code* = 00, no stop *logistics_support_analysis_control_number* (implies a stop *logistics_support_analysis_control_number* of B), with subordinate *logistics_support_analysis_control_number/alternate_logistics_support_analysis_control_number_code* selections of A0102/01, A010207/02, and A04/01 yields the following *alternate_logistics_support_analysis_control_number_code*'s (LCN/ALCs) selected:

LCN (From)	LCN (To)	ALC
A	A0101ZZZZZZZZZZZZZZZZZZZZ	00
A0102	A010206ZZZZZZZZZZZZZZZZZZZZ	01
A010207	A010207ZZZZZZZZZZZZZZZZZZZZ	02
A010208	A0102ZZZZZZZZZZZZZZZZZZZZZZ	01
A0103	A03ZZZZZZZZZZZZZZZZZZZZZZZZ	00
A04	A04ZZZZZZZZZZZZZZZZZZZZZZZZ	01
A05	AZZZZZZZZZZZZZZZZZZZZZZZZZZ	00

1.3 Task Referencing Or Subtask Referencing

Entity CA_Task_Requirements_data in GEIA-STD-0007 allows for referencing of tasks and their related information. To reference a task, a user will input the "Referenced" *end_item_acronym_code*, *logistics_support_analysis_control_number*, *alternate_logistics_support_analysis_control_number_code*, *logistics_support_analysis_control_number_type* and *task_code* following the Entity CA_Task_Requirements_data key set (or "Referencing" keys). As paragraph 2.4.3.a) of GEIA-STD-0007 denotes, this task referencing capability should only be utilized when the data of Entity CA_Task_Requirements and subordinate entities CB_Subtask_Requirements_Narrative_data to CI_Task_Provisioned_Item_data are identical for the referenced and referencing tasks. All non-key attributes in Entity CA_Task_Requirements and all data in subordinate entities (CB_Subtask_Requirements_Narrative_data to CI_Task_Provisioned_Item_data, CR_Subtask_Support_Equipment_data & CS_Subtask_Provisioned_Item_data) will be pulled from the Referenced Task and its subordinate entities. Therefore, only key entries, referenced task entries described above, and mandatory element entries (*task_identification*) are required in Entity CA_Task_Requirements_data, and no further entries are required in subordinate entities CB_Subtask_Requirements_Narrative_data to CI_Task_Provisioned_Item_data. Subtask referencing is similar to task referencing (See guidance in Entity CB_Subtask_Requirements_Narrative_data in GEIA-STD-0007).

Report Usage Of Referenced Tasks/Subtasks. When utilizing task or subtask referencing, two cautions should be followed. First, many software systems allow only 1 tier of referencing for tasks and subtasks. In other words, task A can reference task B as long as task B does not reference task C. If task B does reference task C, then task A must reference Task C instead of task B. Second, in any reports dealing with task information and related calculations, software systems must utilize referenced task and subtask information for report outputs.

Chapter 2, Annual Man Hours by Skill Specialty Code and Level of Maintenance (LSA-001)

2.0 Introduction

The report is divided into two parts. It is used to determine manpower requirements of the system/equipment, and to determine the time required and number of personnel needed, by *skill_specialty_code*, and *subtask_person_identifier*, to perform each task. Part I contains a summary of annual man-hour expenditures by operations/maintenance levels (i.e., *task_code* 3rd position) and *skill_specialty_code*. Man-hour totals are based on the *number_of_systems_supported* by operations/maintenance level. Part II contains a report of the man-hours, by *subtask_person_identifier*, expended on each maintenance task.

2.1 Report Scope

Generation of the report is bounded by *end_item_acronym_code*, start *logistics_support_analysis_control_number*, *logistics_support_analysis_control_number_type*, *usable_on_code* and *service_designator_code*; and optional *alternate_logistics_support_analysis_control_number_code*, stop *logistics_support_analysis_control_number*, *skill_specialty_code*, *number_of_systems_supported* per operations/maintenance level (default=1) and Report Part (PARTS).

2.2 Processing.

The same qualifying criteria is used for both parts I and II. Task_code's are qualified by matching on selected *service_designator_code* (task_code 4th position). Qualified tasks must have an entry in Entity CD_Subtask_Personnel_Requirements_data with a valid *subtask_mean_man_minutes* per *subtask_person_identifier* over the range of selected *logistics_support_analysis_control_number*'s.

2.2.1 It is possible to select only Part I of the report. If Part II is selected, Part I will also be displayed. If a selection is made by *skill_specialty_code*, then both parts I and II will be generated.

2.2.2 Report calculations:

2.2.2.1 Part II M-H PER PERSON ID is computed by summing all *subtask_mean_man_minutes* for each subtask entry matching an identical *subtask_person_identifier* and *skill_specialty_code*. This value is then divided by 60.

2.2.2.2 Part II ANL M-H/ITEM is computed by multiplying the M-H PER PERSON ID (from 2.2.2.1) by the *task_frequency*.

2.2.2.3 Part II TOTAL ANL M-H is computed by multiplying the ANL M-H/ITEM (from 2.2.2.2) by the *number_of_systems_supported* by *task_code* operations/maintenance levels input through the report selection.

2.2.2.4 Part I Man Hour Summary MAN-HOURS is computed by summing all TOTAL ANL M-H for a given *subtask_person_identifier*, *skill_specialty_code* and Operations/Maintenance Level of the *task_code*, position 3.

2.2.2.5 PART I TOTAL NUMBER OF MAINTENANCE TASKS is computed by summing each qualified *task_code* having contributed to man-hour computations.

2.3 Report Format See [Figure 1](#).

2.4 Report Sequence

Part I is sequenced by ascending values of *skill_specialty_code*. Part II is also sorted by ascending *skill_specialty_code*. Within this sequence, Tasks are sorted in ascending *logistics_support_analysis_control_number*, then *task_code* sequence.

2.5 Data Sources See Table 1.

Table 1 – Data Sources for Annual Man-hours by Skill Specialty Code and Level of Maintenance Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
EIAC	XB	end_item_acronym_code	2040
LCN NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
START LCN	XB	logistics_support_analysis_control_number	2970
ALC	XB	alternate_logistics_support_analysis_control_number_code	1200
TYPE	XB	logistics_support_analysis_control_number_type	2980
STOP LCN	XB	logistics_support_analysis_control_number	2970
UOC	XC/XF	usable_on_code	5790
SERV DES	CA	task_code (4 th position)	5110
SSC	CD	skill_specialty_code	4810
SSE	CD	skill_specialty_evaluation_code	4820
NUMBER OF SYSTEMS SUPPORTED BY MAINTENANCE LEVEL: C,O,F,H,G,L,D (SELECTED)			
PART I MAN-HOUR SUMMARY			
SSC	CD	skill_specialty_code	4810
MANHOURS BY SSC, MAINTENANCE LEVEL AND NUMBER OF SYSTEMS SUPPORTED (CALCULATED)			
TOTAL NUMBER OF MAINTENANCE TASKS (COMPUTED)			
PART II PESONNEL SKILL AND TASK SUMMARY			
SSC	CD	skill_specialty_code	4810
LCN	CA	logistics_support_analysis_control_number	2970
NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
LCN-TYPE	CA	logistics_support_analysis_control_number_type	2980
ALC	CA	alternate_logistics_support_analysis_control_number_code	1200
TASK CD	CA	task_code	5110
TASK IDENTIFICATION	CA	task_identification	5150
TASK FREQ	CA	task_frequency	5140
MB	CA	task_annual_operating_requirements_measurement_base	3380
SSE	CD	skill_specialty_evaluation_code	4820
PERS ID	CD	subtask_person_identifier	

Table 1 – Data Sources for Annual Man-hours by Skill Specialty Code and Level of Maintenance Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
TRG EQP	CA	training_equipment_requirement_code	5480
M-H PER PERS ID (CALCULATED)			
ANL M-HR/ITEM (CALCULATED)			
TOTAL ANL M-H (CALCULATED)			
FGC	XB	technical_manual_functional_group_code	5260

REQUESTER:

LOGISTIC PRODUCT DATA

TIME: 14:20

DATE: 10/03/01

PAGE: 1

ANNUAL MAN-HOURS BY SKILL SPECIALTY CODE AND LEVEL OF MAINTENANCE (LSA-001)

EIAC	LCN NOMENCLATURE	START LCN	ALC TYPE	STOP LCN	UOC	SERV DES	SSC	SSE	PARTS
REFRIG-UNT	REFRIGERATION UNIT	0	00 F		DCY	ARMY			BOTH

NUMBER OF SYSTEMS SUPPORTED BY MAINTENANCE LEVEL:

OPERATOR/CREW	(C):	5000
ORGANIZATIONAL/AVUM/ON EQUIP	(O):	5000
INTERMEDIATE/DS AVIM/AFLOAT/OFF EQUIP	(F):	5000
INTERMEDIATE/GS/ASHORE	(H):	5000
ASHORE AND AFLOAT (NAVY)	(G):	0
SPECIALIZED REPAIR ACTIVITY	(L):	5000
DEPOT/SHIPYARD	(D):	5000

PART I - MAN-HOUR SUMMARY

SSC	OPERATOR/ CREW (C)	ORGANIZATIONAL/ ON EQUIP (O)	INTERMEDIATE/DS- AVIM/AFL/OF EQP (F)	INTERMEDIATE/ GS/ASHORE (H)	INTERMEDIATE/ NAVY ASH/AFL (G)	SPECIALIZED REPAIR ACT (L)	DEPOT/ SHIPYARD (D)
35B20	0.00	2770.00	0.00	0.00	0.00	0.00	0.00
35B30	0.00	3440.00	1759.15	0.00	0.00	0.00	0.00
44B10	0.00	0.00	213.50	0.00	0.00	0.00	0.00
44E10	0.00	0.00	1186.60	0.00	0.00	0.00	0.00
52C10	0.00	24.57	315.00	0.00	0.00	0.00	0.00
52C20	0.00	614.30	1219.20	0.00	0.00	0.00	0.00
76J10	0.00	0.00	0.00	0.00	0.00	127.00	1005.15

TOTAL NUMBER OF MAINTENANCE TASKS: 33

PART II - PERSONNEL SKILL AND TASK SUMMARY

SSC	LCN NOMENCLATURE	LCN-TYPE	ALC TASK CD	TASK IDENTIFICATION	TASK FREQ	MB	SSE	TRG ID	PER ID	TRG EQP	M-H PER PERS ID	ANL ITEM	M-H/TOTAL M-H	ANL FGC
-----	---------------------	----------	-------------	---------------------	-----------	----	-----	-----------	-----------	------------	--------------------	-------------	------------------	------------

Figure 1 – Annual Man-hours by Skill Specialty Code and Level of Maintenance (Page 1 of 2)

35B20	002	F	GGOAGAA	INSTALL WIRE HARNESS	.2000	0	M	AAA	N	0.67	0.13	670.00	02
	WIRE HARNESS ASSY	00		ASSY									
	00204	F	HGOAAAA	REPLACE LIGHT ASSY	.8400	0	A	AAA	N	0.50	0.42	2100.00	0204
	LIGHT ASSEMBLY	00											
35B30	002	F	GGOAGAA	INSTALL WIRE HARNESS	.2000	0	M	AAF	N	1.34	0.27	1340.00	02
	WIRE HARNESS ASSY	00		ASSY									
	00201	F	JGFOGAA	REPAIR POWER CONTROL	.2330	0	A	ABB	Y	1.51	0.35	1759.15	0201
	POWER CONTROL ASSY	00											
	00204	F	HGOAAAA	REPLACE LIGHT ASSY	.8400	0	A	AAF	N	0.50	0.42	2100.00	0204
	LIGHT ASSEMBLY	00											

Figure 1 – Annual Man-hours by Skill Specialty Code and Level of Maintenance (Page 2 of 2)

Chapter 3, Maintenance Allocation Chart (LSA-004)

3.0 Introduction

The maintenance allocation chart (MAC) is a report consisting of four sections, three of which are obtainable from the logistics product data. Section I, Introduction, is "boiler plate" information developed IAW MIL-STD-400051, Preparation Of Digital Technical Information For Page-Based Technical Manuals.

Sections II, MAC, III, Tool and Test Equipment Requirements, and IV, Remarks, are produced as separate sections of this report. The report is provided in standard or aviation format IAW MIL-STD-400051. It is used as source information for the final MAC contained in the organizational maintenance manual. Spacing between rows and columns is not critical on the draft MAC.

3.1 Report Scope

Generation of the report is bounded by mandatory *end_item_acronym_code*, start *logistics_support_analysis_control_number*, *service_designator_code* (*task_code* 4th position), and Draft/Proof option; and optional *alternate_logistics_support_analysis_control_number_code*, stop *logistics_support_analysis_control_number* and *usable_on_code*. Other optional criteria include *item_category_code*'s, Tool List option, *technical_manual_code*, Display Option (*logistics_support_analysis_control_number* or *technical_manual_functional_group_code* for the Draft MAC, Proof MAC and Aviation MAC must be sequenced by *technical_manual_functional_group_code*), and Technical Manual Designation (provided by requiring authority). The Draft/Proof option allows for a Draft MAC, Proof MAC, or Aviation MAC. If the Tool List option is not used, then the *item_category_code* option cannot be used. *item_category_code*'s are limited to D, G, H, M, N, P, R, V, AC, and 1-8.

3.2 Processing

The Maintenance Allocation Chart is a report of the man-hour allocations by function (*task_code* 1st position) and operations/maintenance level (*task_code* 3rd position). The report can be requested as either a *draft* (reflects all maintenance functions allowed) or a *proof* (formatted in accordance with MIL-STD-400051). The draft MAC consists of two parts, the man-hour allocation section and the cross-referenced tool list (if selected). The Proof MAC and Aviation MAC consist of four sections, three of which are obtainable from the logistics product data. The proof tool list should consist of only *item_category_code*'s for peculiar or special tools and for existing or new tool sets, kits, and outfits. It should not include common tools that are part of a kit as separately listed (referenced) items. Entity *CA_Task_Requirements_data* *logistics_support_analysis_control_number*'s must exist within the range of selected *logistics_support_analysis_control_number*'s and with a qualified *task_code*'s are qualified against the selected *service_designator_code* by matching on the 4th position).

If the tool option is selected, qualified Entity *CG_Task_Support_Equipment_data* *logistics_support_analysis_control_number*'s must have a tool/test equipment having an *item_category_code* that matches on those selected (must match the *reference_number* and *commercial_and_government_entity_code* in Entity *CG_Task_Support_Equipment_data* with the *reference_number* and *support_equipment_commercial_and_government_entity_code* in Entity *EA_Support_Equipment_data* in order to access the *item_category_code*).

Asterisks will be printed in the Man-hours column of this report when:

- there is more than one *task_code* qualified for a given operations/maintenance level and task Function and either the Man-hour or *task_frequency* is blank or zero; or
- when there is qualified *task_code* for a given operations/maintenance level and task Function, but there is no Man-hour value, whatsoever.

3.2.1 Task Functions (1st position *task_code*) for the draft are contained in the logistics product data

3.2.2 Task Functions not allowed on the Proof MAC will be automatically included as follows:

1. Access, Disassemble/Assemble and Fault Locate Times are included as part of Repair time.
2. End-of-Runway Inspection times are included as part of the Inspect time.
3. Remove and Install times are included as part of the Remove/Install time.
4. Remove and Replace times are included as Replace time.
5. Lubricate times are included as part of the Service times.
6. Clean, Mission Profile Change, Package/Unpackage, Preserve, Operate, Transport, and Transportation Preparation are not included on the MAC. Also, Battle Damage Assessment Repair (BDAR) tasks are not included on the MAC (these are identified by a Task Interval Code (*task_code*, 2nd position) of "Y").

3.2.3 Operations/Maintenance Level "G" is not included on the Proof MAC and operations/maintenance level "L" is included as part of operations/maintenance level "H" on the Proof. All operations/maintenance levels are included on the Draft MAC (C, O, F, H, G, L, D). Only operations/maintenance levels of "O", "F", and "D" apply when the aviation MAC is developed. Maintenance category AVUM equates to "O", AVIM to "F", and Depot to "D".

3.2.4 For each operations/maintenance level, the Mean Man-hours is calculated for all tasks with the same task Function as follows:

$$MHm = (\sum_{i=1}^N (TF_i)(MH_i)) / \sum_{i=1}^N TF_i$$

MHm = Mean Man-hours

MH_i = Total Man-hours for task i (calculated by summing the Man-hours for each *subtask_person_identifier* of task i)

TF_i = *task_frequency* for task i

N = Total number of tasks performed

Man-hours are rounded to the nearest tenth of an hour.

3.2.5 For a given component/assembly (*logistics_support_analysis_control_number* driven)/task Function combination, a new line is required for each applicable operations/maintenance level. This will enable necessary tools to be linked to specific operations/maintenance levels.

3.2.6 Section III, Tool and Test Equipment Requirements, consists of tools and test equipment required to perform the task functions listed in Section II, Maintenance Allocation Summary. Sections II and III are cross indexed by the "Tool or Test Equipment Reference Code" which is generated based on the ascending *reference_number* sequence in Section III.

3.2.7 Section IV, Remarks, is based upon remarks entered against qualified MAC tasks. Section II and IV are cross indexed by the *task_remarks_reference_code* contained in column 6 of Section II and the Reference Code (*task_remarks_reference_code*) in column 1 of Section IV.

3.3 Report Format See [Figure 2](#).

3.4 Report Sequence

Section II is sequenced by ascending *logistics_support_analysis_control_number* or *technical_manual_functional_group_code*, depending on the Display Option selected, then by ascending task function based on the 1st position of the *task_code*. Section III is sequenced by ascending *reference_numbers* and *commercial_and_government_entity_code*'s. Section IV is sequenced by ascending *task_remarks_reference_code*.

3.5 Data Sources See Table 2.

Table 2 – Data Sources for the Maintenance Allocation Chart

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
EIAC	XB	end_item_acronym_code	2040
LCN NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
START LCN	XB	logistics_support_analysis_control_number	2970
TYPE	XB	logistics_support_analysis_control_number_type	2980
ALC	XB	alternate_logistics_support_analysis_control_number_code	1200
STOP LCN	XB	logistics_support_analysis_control_number	2970
UOC	XC/XF	usable_on_code	5790
SERV DES	CA	task_code	5110
ICC SELECTION (DRAFT OR PROOF)	EA	support_equipment_item_category_code	2730
TM CODE (SELECTED)	XI	technical_manual_code	5250
TOOL LIST (SELECTED)			
TECH MANUAL DESIGNATION (SELECTED)	XI	technical_manual_number	5280
DISP OPT (SELECTED)			
DRAFT/PROOF OPTION (SELECTED)			
LCN (DRAFT MAC)	CA	logistics_support_analysis_control_number	2970
ALC (DRAFT MAC)	CA	alternate_logistics_support_analysis_control_number_code	1200
GROUP NUMBER (MAC)	XB	technical_manual_functional_group_code	5260
LCN NOMENCLATURE (DRAFT/ COMPONENT/ ASSEMBLY MAC)	XB	logistics_support_analysis_control_number	2970
MAINTENANCE FUNCTION	CA	task_code (1 st position)	5110
MAINTENANCE LEVEL CODES (DRAFT MAC)/ MAINTENANCE CATEGORY (MAC)	CA	task_code (3rd position)	5110
MEAN MAN-HOURS PER MAINTENANCE FUNCTION AND LEVEL – CALCULATED			
TOOLS AND EQUIPMENT (GENERATED)			
REMARKS (REFERENCE CODE) (MAC)	CE	task_remarks_reference_code	5170
TOOL AND TEST EQUIPMENT REQUIREMENTS (HEADER)			
TOOL/TEST EQUIPMENT REF CODE (GENERATED)			
MAINT CATEGORY	CA	task_code (3rd position)	5110
ITEM NAME (DRAFT MAC)/ NOMENCLATURE (MAC)	HA	item_name	2790

Table 2 – Data Sources for the Maintenance Allocation Chart

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
NATIONAL STOCK NUMBER (DRAFT MAC)/ NATIONAL/NATO STOCK NUMBER (MAC)	HA	national_stock_number_federal_supply_classification national_stock_number_national_item_identification_number	2280 3520
REFERENCE NUMBER (DRAFT MAC) / TOOL NUMBER (MAC)	HA	reference_number	4400
CAGE (DRAFT MAC)	HA	commercial_and_government_entity_code	1520
SECTION IV REMARKS (HEADER)			
REFERENCE CODE (MAC)	CE	task_remarks_reference_code	5170
REMARKS (MAC)	CE	task_remarks	5180

REQUESTER: LOGISTICS PRODUCT DATA TIME: 10:20 DATE: 10/03/07 PAGE: 01

DRAFT MAINTENANCE ALLOCATION SUMMARY (LSA-004)													
EIAC	LCN	NOMENCLATURE	START LCN	ALC	TYPE	STOP LCN	UOC	SERV	DES	ICC	SELECTION	TM CODE	TOOL LIST
REFRIG	UNT	ENGINE ASSY	006				FF	ARMY		B,X,Y,Z		TM2	YES
TECH MANUAL DESIGNATION			DISP OPT										
TM 5-4110-234-14			LCN										
LCN	ALC	LCN	NOMENCLATURE	MAINTENANCE FUNCTION		C	O	MAINTENANCE LEVEL CODES			L	D	TOOLS AND EQUIPMENT
006	00	ENGINE	ASSY	TEST		.00	.00	.77	.00	.00	.00	.00	
				SERVICE		.06	.00	.00	.00	.00	.00	.00	
				FAULT LOCATION		.00	.78	.00	.00	.00	.00	.00	14,15,18
00602	00	ENGINE	BLOCK	REMOVE		.00	.00	.54	.00	.00	.00	.00	12,16,18
0060201	00	PISTON	ASSY	REPAIR		.00	.00	.56	.00	.00	.00	.00	1,2,3,4,5,6,7,17
00607	01	SUPER	CARB	REMOVE AND RE PLACE		.00	1.38	.00	.00	.00	.00	.00	8,10,14,16,18
				REPAIR		.00	.00	1.50	.00	.00	.00	.00	
00614	00	STARTER	ASSY	REMOVE AND RE PLACE		.00	.00	.61	.00	.00	.00	.00	10,13,18
				REPAIR		.00	.00	.35	.00	.00	.00	.00	11,13,18

Figure 2 – Maintenance Allocation Chart (Page 1 of 6)

REQUESTER:

LOGISTICS PRODUCT DATA TIME: 10:20 DATE: 10/03/07 PAGE: 02

DRAFT TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOL/TEST EQUIPMENT REF CODE	MAINTENANCE CATEGORY	ITEM NAME	NATIONAL STOCK NUMBER	REFERENCE NUMBER	CAGE
1	F	RING, RETAINING		112-0003	44940
2	F	PIN, PISTON		112-0069	44940
3	F	PISTON	2805-00-647-0713	112-0136	44940
4	F	RING SET, PISTON	2805-01-045-3095	113-0153	44940
5	F	BUSHING, CONN ROD		114-0036	44940
6	F	BEARING, ROD (HALF)		114-0145	44940
7	F	CONNECT ROD, PISTON	2805-00-865-2333	114-0203	44940
8	O	KIT, GASKET		142-0033	44940
9	O	CARBURETOR	2910-01-044-8999	142-0431	44940
10	F	STARTER ASSY	2920-01-043-8778	191-1052	44940
11	F	CLUTCH ASSY	3010-01-008-9140	191-1087	44940
12	F	WRENCH, SOCKET	5120-00-449-8083	AT503	11599
13	F	WRENCH, SOCKET	5120-00-148-7917	B107-6	80204
14	O	SOCKET SET 3/8 INCH		B2502	10702
15	O	COMPRESSION GAUGE	5210-00-278-1248	GGG-G-17 TY9CL2STA123	80244
16	O, F	SCREWDRIVER	5120-00-222-8852	GGG-S-121	81348

Figure 2 – Maintenance Allocation Chart (Page 2 of 6)

17	F	SPREADER, PISTONRING	JH25	44940
18	0, F	TOOL KIT GEN REFRIG	5180-00-596-1474	SC5180-90-CL-N14
		MAINTENANCE ALLOCATION CHART		

SELECTION SUMMARY

EIAC	LCN NOMENCLATURE	START LCN	ALC	TYPE	STOP LCN	UOC	SERV DES
REFRIG UNT	ENGINE ASSY	006				FF	ARMY

ITEM CATEGORY CODES SELECTED: A, B, C

TOOL LIST OPTION: YES

TECHNICAL MANUAL CODE: TM2

TECHNICAL MANUAL DESIGNATION: TM 5-4110-234-14

DRAFT/PROOF OPTION SELECTED: PROOF MAC

DISPLAY OPTION: TECHNICAL MANUAL FUNCTIONAL GROUP CODE

Figure 2 – Maintenance Allocation Chart (Page 3 of 6)

SECTION II. MAINTENANCE ALLOCATION CHART

TM 5-4110-234-14

(1) GROUP NUMBER	(2) COMPONENT/ ASSEMBLY	(3) MAINT FUNCTION	(4) MAINTENANCE CATEGORY					(5) TOOLS AND EQUIPMENT	(6) REMARKS
			C	O	F	H	D		
06	ENGINE ASSY	TEST	.0	.0	.8	.0	.0		
		SERVICE	.1	.0	.0	.0	.0		
		REPLACE	.0	1.5	.0	.0	.0	4, 5, 6, 12, 14, 16	AA
		REPAIR	.0	.8	.0	.0	.0	9, 11	
0601	DELUXE CARB	SERVICE	.0	.0	.3	.0	.0	8, 10	
		REPLACE	.0	1.2	.0	.0	.0	9, 13	
0602	ENGINE BLOCK	REM/INS	.0	.0	.5	.0	.0	4, 13	
0602	SUPER CARB	REPLACE	.0	1.4	.0	.0	.0	9, 13	
		REPAIR	.0	.0	1.5	.0	.0		BB
060201	PISTON ASSY	REPAIR	.0	.0	.6	.0	.0	1, 2, 3, 15	
0607	CARBURETOR ASSY	ADJUST	.0	.5	.0	.0	.0		
		SERVICE	.0	.0	.2	.0	.0	8, 10	
		REPAIR	.0	.0	1.0	.0	.0		
0614	STARTER ASSY	REPLACE	.0	.0	.6	.0	.0	7	
		REPAIR	.0	.0	.4	.0	.0	7	

Figure 2 – Maintenance Allocation Chart (Page 4 of 6)

TOOL AND TEST EQUIPMENT REQUIREMENTS

TM 5-4110-234-14

TOOL/TEST EQUIPMENT REF CODE	MAINT CATEGORY	NOMENCLATURE	NATIONAL/NATO STOCK NUMBER	TOOL NUMBER
1	F	SET, SOLDERING	5820-00-347-8650	4003100
2	F	COMPRESSOR, RING	5480-00-123-9876	4003100
3	F	LEAK DETECTION DEV	3420- - -	4990866
4	O, F	WRENCH, SOCKET	5120-00-449-8083	AT503
5	O	SCREWDRIVER	5120-00-278-1273	A135
6	O	SOCKET	5120-00-189-7985	A24
7	F	WRENCH, BOX	5120-00-148-7917	B107-6
8	F	TONGS		B25
9	O	SOCKET WRENCH		B2502
10	F	BUCKET WITH LID		CTB1
11	O	COMPRESSION GAUGE	5210-00-278-1248	GGG-G-17 TY9CL2S 1234
12	O	PLIERS	5120-00-293-0032	GGG-P-471
13	O, F	SCREWDRIVER	5120-00-222-8852	GGG-S-121

Figure 2 – Maintenance Allocation Chart (Page 5 of 6)

14	0	EXT, SOCKET WRENCH	5120-00-243-1697	GGG-W-641
15	F	SPREADER, PISTONRING		JH25
16	0	SCREW STARTER, HAND	5120-00-832-6221	SN9

MAINTENANCE ALLOCATION CHART

TM 5-4110-234-14

SECTION IV. REMARKS

REFERENCE CODE	REMARKS
AA	DS WILL REPLACE PHENOLIC CONNECTOR AND POT FOR MOISTURE.
BB	ALL REPAIR AND REPLACEMENT OF PARTS PERFORMED BY ORGANIZATIONAL MAINTENANCE LIMITED TO AUTHORIZED ITEMS LISTED IN TM 9-4240-1643-24P.

Figure 2 – Maintenance Allocation Chart (Page 6 of 6)

Chapter 4, Support Items List (LSA-009)

4.0 Introduction

A report by *logistics_support_analysis_control_number*, *reference_number*, *national_stock_number_federal_supply_classification*, and *national_stock_number_national_item_identification_number* of all repair parts and tools/test equipment necessary to support the system/equipment.

The report may be selected for any *item_category_code* or combination of *item_category_code*'s, or single or multiple *provisioning_technical_documentation* selection code. It is sequenced in either ascending *logistics_support_analysis_control_number* or *reference_number/commercial_and_government_entity_code*. The *price_provisioning* appears on the report. The report should be used to provide information necessary to assist in performing provisioning. Spacing between rows and columns is not critical on this report.

4.1 Report Scope

Generation of the Support Item List is bounded by a mandatory *end_item_acronym_code*, start *logistics_support_analysis_control_number* and at least one selection of *item_category_code* (Entity HA_Item_Identification_data) or *provisioning_technical_documentation* (Entity HG_Part_Application_Provisioning_data). Optional criteria are *alternate_logistics_support_analysis_control_number_code*, stop *logistics_support_analysis_control_number*, sequence and *usable_on_code*. The *logistics_support_analysis_control_number_type* is always "P". If both *provisioning_technical_documentation* and *item_category_code* are selected, then to qualify an item, it must match BOTH selected codes or code combinations.

4.2 Processing

At least one qualified item by either *provisioning_technical_documentation* or *item_category_code* must be contained in the selected range of *logistics_support_analysis_control_number*'s in order to produce the report. The *unit_price* with a *price_type_selection* of "M" and a *provisioning_price_used_code* of "Y" is displayed on the report.

4.3 Report Format See [Figure 3](#).

4.4 Report Sequence

The report is sequenced in either ascending *reference_number* and *commercial_and_government_entity_code*, or *logistics_support_analysis_control_number*. If left blank, sequencing is by *reference_number* and *commercial_and_government_entity_code*.

NOTE: An optional sort is by ascending *system_end_item_provisioning_contract_control_number* / *provisioning_list_item_sequence_number*.

4.5 Data Sources See Table 3.

Table 3 – Data Sources for Support Items List

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
REPORT SELECTION DATA			
EIAC	HG	end_item_acronym_code	2040
ITEM NAME	HA	item_name	2790
START LCN	HG	logistics_support_analysis_control_number	2970
ALC	HG	alternate_logistics_support_analysis_control_number_code	1200
STOP LCN	HG	logistics_support_analysis_control_number	2970
UOC	XC	usable_on_code	5790
SEQ OPT		REPORT SELECTION INPUT	
ICC	HG	item_category_code	2730
PTD LISTS SELECTED			
PPL	HG	provisioning_parts_list_provisioning_technical_documentation	4170
SFPPL	HG	short_form_provisioning_parts_list_provisioning_technical_documentation	4170
LLTIL	HG	long_lead_time_items_list_provisioning_technical_documentation	4170
RIL	HG	repairable_items_list_provisioning_technical_documentation	4170
ISIL	HG	interim_support_item_list_provisioning_technical_documentation	4170
TTEL	HG	tool_and_test_equipment_list_provisioning_technical_documentation	4170
CBIL	HG	common_and_bulk_items_list_provisioning_technical_documentation	4170
PCL	HG	post_conference_list_provisioning_technical_documentation	4170
SFPL	HG	short_form_provisioning_parts_list_provisioning_technical_documentation	4170
ARA	HG	as_required_list_a_provisioning_technical_documentation	4170
ARB	HG	as_required_list_b_provisioning_technical_documentation	4170
DETAIL DATA			
REFERENCE NUMBER	HG	reference_number	4400
CAGE	HG	commercial_and_government_entity_code	1520
LCN	HG	logistics_support_analysis_control_number	2970
ALC	HG	alternate_logistics_support_analysis_control_number_code	1200
WUC	HG	work_unit_code	5920
PCCN	XC	system_end_item_provisioning_contract_control_number	4100
PLISN	HG	provisioning_list_item_sequence_number	4120
IC	HG	indenture_code	2520
ITEM NAME	HA	item_name	2790
NAT STOCK NUMBER (HEADER)			
	HA	national_stock_number_cognizance_code	3540
	HA	national_stock_number_federal_supply_classification	2280
	HA	national_stock_number_item_identification_number	3520

Table 3 – Data Sources for Support Items List

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
	HA	national_stock_number_special_material_identification_code_materiel_management_aggregation_code	3560
	HA	national_stock_number_activity_code	3530
SMCC	HA	special_material_content_code	4900
SMIC	HA	special_maintenance_item_code	4870
ICC	HG	item_category_code	2730
UM	HA	unit_of_measure	5720
PLT	HA	production_lead_time	4020
QTY/EI	HG/ XC	quantity_per_end_item	4210
UM PRICE	HD	unit_price	3990
CURR CD	HD	currency_code	1745
PS/PC	HA	physical_security_pilferage_code	3920
QTY/ASY	HG	quantity_per_assembly	4190
SMR	HG	source_maintenance_and_recoverability_code	4380
SL	HA	shelf_life	4730

REQUESTER:

TIME: 14:20 DATE: 90/03/01 PAGE: 1

SUPPORT ITEMS LIST (LSA-009)

EIAC	ITEM NAME	START	LCN	ALC	TYPE	STOP	LCN	UOC	SEQUENCE							
REFRIG-UNT	REFRIGERATION UNIT	0		00	P				REFERENCE NUMBER							
ITEM CATEGORY CODES SELECTED:																
X, Y, AA, AC				PPL	SFPPL	LLTIL	RIL	PTD LISTS SELECTED								
				YES	NO	YES	NO	ISIL	TTEL	CBIL	PCL	SCPL	ARA	ARB		
								NO	NO	NO	NO	NO	NO	NO		
CAGE	REFERENCE	NUMBER		PCCN	IND	ITEM NAME	SM	SM	ICC	UM	QTY/EI	UM-PRICE	PS/	QTY/ASY	SMR	SL
LCN		ALC	WUC	PLISN	CD	NAT STOCK NUMBER	CC	IC		PLT		CURR CD	PC			
44940	A12316142F-110			A90B10	C	COMPRESSOR ASSY	9	B	X	EA	00001	1239.74 U		0001	PAOFF	0
00506		00	05AA	AACG		4130-01-091-9159				12		USD				
51440	CCG45/1842-11AC			A90B10	C	POWER SUPPLY	4		X	EA	00002	327.25 U		0001	PAFDD	0
00501		00	0520	ABA3		5120-01-096-3211				07		USD				
31560	LP1213980F-1000			A90B10	B	ENGINE, GASOLINE	9		X	EA	00001	2156.69 U		0001	PAODD	0
006		00	06	AAAK		3150-00-976-9349				15		USD				
54330	12398/1842-11AC			A90B10	C	CABLE, ASSEMBLY	9	A	X	EA	00001	19.39 U		0001	PAFDD	0
00512AA		00	0512A	AC12		5120-01-097-4322				04		USD				
29871	189.0918			A90B10	F	SCREW, CAP	9	A	Y	EA	00001	0.03 U		0001	PAODD	0
0031028AL		00	0312	AV19		5302-01-000-0542				01		USD				
54330	19698/1842-12AD			A90B10	C	CABLE, ASSEMBLY	9	A	X	EA	00001	21.34 U		0001	PAFDD	0
0051209AD		00	0514A	AC28		5120-00-398-4322				04		USD				

Figure 3 – Support Items Validation Report

Chapter 5, Task Analysis Report (LSA-019)

5.0 Introduction

This report provides a listing of support items and skill specialty requirements needed to perform maintenance tasks. The report is designed to be used

- in the preparation of maintenance manuals/interactive electronic technical manuals and
- during physical teardown logistic demonstration (PTLD), both to record data as a result of the PTLD, and to review the results of the PTLD.

At the option of the user, the report may also contain the narrative sequential subtask description for each task, and the description of those subtasks which are referenced. The referenced subtask descriptions will appear in the proper sequence of the task description requested.

5.1 Report Scope

Generation of the report is bounded by mandatory *end_item_acronym_code*, start *logistics_support_analysis_control_number*, *logistics_support_analysis_control_number_type* and *usable_on_code*. Optional criteria include *service_designator_code*, *alternate_logistics_support_analysis_control_number_code*, stop *logistics_support_analysis_control_number*, operations/maintenance level (*task_code*, 3rd position), *item_category_code*'s) Display Option (*logistics_support_analysis_control_number* or *technical_manual_functional_group_code*), Task Narrative option (YES or NO), task interval option (*task_code*, 2nd position), task function option (*task_code*, 1st position) and *hardness_critical_procedure_code*.

5.2 Processing

5.2.1 *logistics_support_analysis_control_number*'s are qualified within the selected *logistics_support_analysis_control_number* range with a valid *task_code* that qualifies against selected *service_designator_code* (4th position of *task_code*), selected operations/maintenance level (3rd position *task_code*), selected Task Interval (2nd position *task_code*), and selected task Function (1st position *task_code*).

5.2.1.1 If the Task Narrative option is selected, then the *subtask_number*, *subtask_description*, *subtask_work_area_code_zone*, *subtask_person_identifier*, *subtask_mean_man_minutes*, and *subtask_mean_minute_elapsed_time* are output for the qualified tasks. Referenced tasks and subtasks will be incorporated into referencing tasks where required. A developer option may be to allow users to select whether referenced tasks should be incorporated.

5.2.1.2 If the *hardness_critical_procedure_code* option is selected, then only tasks with an associated *hardness_critical_procedure_code* of "Y" or "S" will qualify and be output (including narrative).

5.2.1.3 Either predicted or measured Elapsed Times and Man-hours can be output (measured taking first precedence).

5.2.1.4 The support items identified to perform the subject task are categorized according to their respective *item_category_code*:

5.2.1.4.1 Items qualifying as "Support/Test Equipment and Tools" must have an *item_category_code* of D, G, H, M, N, P, R, 1-8, or AC.

5.2.1.4.2 Items qualifying as "Spare and Repair Parts" must have an *item_category_code* of X, Y, Z, 9, AA, AB, or AE.

5.2.1.4.3 Items qualifying as "Other" must have an *item_category_code* of E, F, J, O, S, T, W, AD, or AF.

5.2.1.5 There are spaces provided for manual entries onto this report for Manually Measured Elapsed Time, Manually Measured Man-hours, Actual Quantity Used, Manual Evaluation, Reviewer's Name, and Support Items Not Identified in GEIA-STD-0007.

5.3 Report Format See [Figure 4](#).

5.4 Report Sequence

This report is sequenced by ascending *logistics_support_analysis_control_number* or *technical_manual_functional_group_code* (depending on the Display Option chosen), then by ascending *task_code*. The support items portion is sequenced by support item type with Support/Test Equipment and Tools being first, then Spare and Repair Parts, then Other, then space is provided for Support Items Not Identified. Within each of the first three categories of support items, sequencing is done by ascending *item_category_code*, then ascending *reference_numbers*.

5.5 Data Sources See Table 4.

Table 4 – Data Sources for Task Analysis Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
REPORT SELECTION DATA			
EIAC	XB	end_item_acronym_code	2040
LCN NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
START LCN	XB	logistics_support_analysis_control_number	2970
ALC	XB	alternate_logistics_support_analysis_control_number_code	1200
TYPE	XB	logistics_support_analysis_control_number_type	2980
STOP LCN	XB	logistics_support_analysis_control_number	2970
UOC	XF	usable_on_code	5790
SER DES	CA	task_code (4th position)	5110
M/L SELECT	CA	task_code (3rd position)	5110
ICC SELECTION		REPORT SELECTION INPUT	
DISP OPT		REPORT SELECTION INPUT	
TASK NARRATIVE SELECTION		REPORT SELECTION INPUT	
HARDNESS CRITICAL PROCEDURES		REPORT SELECTION INPUT	
TASK INTERVAL	CA	task_code (2nd position)	5110
TASK FUNCTION	CA	task_code (1st position)	5110
DETAIL DATA			
LCN	CA	logistics_support_analysis_control_number	2970
ALC	CA	alternate_logistics_support_analysis_control_number_code	1200
REFERENCE NUMBER	HG	reference_number	4400
CAGE	HG	commerical_and_government_entity_code	1520
ITEM NAME	HA	item_name	2790
TM FUNCT GROUP CODE	XB	technical_manual_functional_group_code	5260
TASK CD	CA	task_code	5110
TASK IDENTIFICATION	CA	task_identification	5150
HCP	CA	hardness_critical_procedure_code	2860

Table 4 – Data Sources for Task Analysis Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
HMPC	CA	hazardous_maintenance_procedure_code	2380
TSK FREQ	CA	task_frequency	5140
MB	CA	task_annual_operating_requirements_measurement_base	3380
ELAP TIME (MEASURED)	CA	measured_mean_elapsed_time	3210
ELAP TIME (PREDICTED)	CA	predicted_mean_elapsed_time	3210
INITIAL SCHEDULED INTERVAL	CV/ CW	initial_scheduled_maintenance_interval	4625
MB	CV/ CW	initial_scheduled_maintenance_interval_measurement_base	3380
SUBSEQUENT SCHEDULED INTERVAL	CV	subsequent_scheduled_maintenance_interval	4625
MB	CV	subsequent_scheduled_maintenance_interval_measurement_base	3380
INITIAL SAMPLING VALUE	CW	initial_sampling_value	4616
INITIAL SAMPLING TYPE	CW	initial_sampling_type	4615
SUBSEQUENT SAMPLING VALUE	CW	subsequent_sampling_value	4616
SUBSEQUENT SAMPLING TYPE	CW	subsequent_sampling_type	4615
INITIAL SAMPLING DESCRIPTION	CW	initial_sampling_description	4614
SUBSEQUENT SAMPLING DESCRIPTION	CW	subsequent_sampling_description	4614
TRIGGER	CV	event_trigger	2095
TRIGGER EIAC	CV	event_trigger_end_item_acronym_code	2040
TRIGGER LCN	CV	event_trigger_logistics_support_analysis_control_number	2970
TRIGGER ALC	CV	event_trigger_alterate_logistics_support_analysis_control_number_code	1200
TRIGGER LCN TYPE	CV	event_trigger_logistics_support_analysis_control_number_type	2980
TRIGGER TASK CODE	CV	event_trigger_task_code	5110
MANUALLY MEASURED ELAPSED TIME (ENTERED)			
SUBTASK NUMBER	CB	subtask_number	4970
TEXT TYPE/TEXT SEQUENCE CODE	CLL	task_subtask_associated_narrative_type	5200
SEQUENTIAL TASK NARRATIVE	CB	subtask_description	4960
SUBTASK NUMBER	CL	subtask_number	4970
WARNING/CAUTION/NOTE – EMBEDDED IN SEQUENTIAL TASK NARRATIVE	CL	caution_warning_note_identifier task_associated_narrative_indicator	1483 5155
WARNING/CAUTION/NOTE DESCRIPTION	CLL	subtask_number caution_warning_note_identifier task_subtask_associated_narrative task_subtask_associated_narrative_type	4970 1483 3510 5200

Table 4 – Data Sources for Task Analysis Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
OBJECTIVE STATES IMBEDDED IN SEQUENTIAL TASK NARRATIVE	CT	subtask_objective_state	3665
	HA	circuit_breaker_type	1498
	CU	circuit_breaker_identification_code	1492
	CU	circuit_breaker_objective_state	1496
	CU	circuit_breaker_group_number	1491
	CU	circuit_breaker_sequence_number	1497
	CU	circuit_breaker_end_item_acroynm_code	2040
	CU	circuit_breaker_logistics_support_analysis_control_ number	2970
	CU	circuit_breaker_alternate_logistics_support_analysis_ control_number_code	1200
	CU	circuit_breaker_logistics_support_analysis_control_ number_type	2980
	CU	circuit_breaker_ commercial_and_government_ entity_code	1520
	CU	circuit_breaker_reference_number	4400
CIRCUIT BREAKER OBJECTIVE STATES IMBEDDED IN SEQUENTIAL TASK NARRATIVE	CUU	circuit_breaker_group_number	1491
	CUU	end_item_acroynm_code	2040
	CUU	logistics_support_analysis_control_number	2970
	CUU	alternate_logistics_support_analysis_control_number_ code	1200
	CUU	logistics_support_analysis_control_number_type	2980
	CUU	task_code	5110
	CUU	subtask_number	4970
	CUU	circuit_breaker_end_item_acroynm_code	2040
	CUU	circuit_breaker_logistics_support_analysis_control_ number	2970
	CUU	circuit_breaker_alternate_logistics_support_analysis_ control_number_code	1200
	CUU	circuit_breaker_logistics_support_analysis_control_ number_type	2980
	CUU	circuit_breaker_ commercial_and_government_ entity_code	1520
	CUU	circuit_breaker_reference_number	4400
	CUU	circuit_breaker_identification_code	1492
	CUU	circuit_breaker_objective_state	1496
	CUU	circuit_breaker_group_number	1491
	CUU	circuit_breaker_sequence_number	1497
WORK AREA	CB	subtask_work_area_code_zone or subtask_work_area_code_access	5900/ 5910
PERS ID	CD	subtask_person_idenfifer	3890
MEAN MAN MINUTE	CD	subtask_mean_man_minutes	3230
MEAN MINUTE ELAP TIME	CB	subtask_mean_minute_elapsed_time	3240
SSC	CD	skil_specialty_code new_or_modified_ skil_specialty_code	4810
SS EVAL	CD	skil_specialty_evaluation_code	4820

Table 4 – Data Sources for Task Analysis Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
MAN-HOURS (SUMMED PER SSC & PERS ID)			
MANUALLY MEASURED MAN-HOURS (ENTERED)			
SUPPORT/TEST EQUIPMENT AND TOOLS (HEADER)			
ICC (ENTERED)	EA	support_equipment_item_category_code	2730
ITEM NAME	HA	item_name	2790
REFERENCE NUMBER	CG/ CR	task_support_reference-number/ subtask_support_reference_number	4400
CAGE	CG/ CR	task_support_commercial_and_government_entity_code/ subtask_support_commercial_and_government_entity_code	1520
QTY/TSK	CG	support_item_quantity_per_task	4230
QTY/SUBTASK	CR	support_item_quantity_per_subtask	4230
UM	CR	support_item_quantity_per_subtask_unit_of_measure	5720
ACTUAL QUANTITY USED (ENTERED)			
MANUAL EVALUATION (ENTERED)			
SPARE AND REPAIR PARTS (HEADER)			
ICC (ENTERED)	HG	item_category_code	2730
REFERENCE NUMBER	CI/ CS	task_provision_reference_number	4400
CAGE	CI/ CS	task_provision_commercial_and_government_entity_code	1520
QTY/TASK	CI	quantity_per_task	4230
QTY/SUBTASK	CS	quantity_per_subtask	4230
UM	CS	quantity_per_subtask_unit_of_measure	5720
OTHER (HEADER)			
ICC (Q, W and AD ENTERED)	HG	item_category_code	2730
REFERENCE NUMBER	CI	task_provision_reference_number	4400
CAGE	CI	task_provision_commercial_and_government_entity_code	1520
QTY/TASK	CI	quantity_per_task	4230
ICC (E, F, J, S, T, AND AF ENTERED)			
REFERENCE NUMBER	CI	task_provision_reference_number	4400
CAGE	CI	task_provision_commercial_and_government_entity_code	1520
QTY/TASK	CI	quantity_per_task	4230
SUPPORT ITEMS NOT IDENTIFIED IN LSAR (HEADER) (MANUAL ENTRIES)			
REVIEWER'S NAME (ENTERED)			

REQUESTER:		LOGISTIC PRODUCT DATA					TIME:	10:20	DATE:	10/03/07	PAGE:	01
TASK ANALYSIS REPORT (LSA-019)												
EIAC	LCN NOMENCLATURE	START LCN	ALC	TYPE	STOP LCN	UOC	SERV DES	M/L SELECT	ICC SELECTION			
REFRIG UNT	ENGINE BLOCK	00602		P		DCY	ALL	ALL	ALL			
DISP OPT	TASK NARRATIVE SELECTION	HARDNESS CRITICAL PROCEDURES SELECTION				TASK INTERVAL		TASK FUNCTION				
LCN	YES	NO										

LCN	ALC	REFERENCE NUMBER			CAGE	ITEM NAME		TM FUNCT GROUP CODE				
00602		142-0431ALCA			33647	ENGINE BLOCK		0601				
TASK CD	TASK IDENTIFICATION			HCP	HMPC	TSK	FREQ	MB	LSAR	ELAP TIME	MANUALLY MEASURED ELAPSED TIME	
RGFAGAA	REMOVE ENGINE FROM ENGINE ASSY			S	D		.3370	0		.82(M)		
INITIAL SCHEDULED INTERVAL	MB	INITIAL SAMPLING VALUE	INITIAL SAMPLING TYPE	INITIAL SAMPLING DESCRIPTION		SUBSEQUENT SCHEDULED INTERVAL		MB	SUBSEQUENT SAMPLING VALUE	SUBSEQUENT SAMPLING TYPE	SUBSEQUENT SAMPLING DESCRIPTION	
EVENT TRIGGER:												
EVENT TRIGGER EIAC:												
EVENT TRIGGER LCN:												
EVENT TRIGGER ALC:												
EVENT TRIGGER LCN TYPE:												
EVENT TRIGGER TASK CODE:												
SUBTASK NUMBER	TEXT TYPE/SEQUENCE CODE	SEQUENTIAL TASK NARRATIVE							WORK AREA	PERS ID	MEAN MAN MINUTE	MEAN MINUTE ELAP TIME
001	---	OBJECTIVE STATE: ALL ELECTRICAL POWER MUST BE DISCONNECTED										
001		CIRCUIT BREAKER ORDER GROUP: 001										
001	1	CIRCUIT BREAKER ID: AA0 OBJECTIVE STATE: open								A	2.0	2.0
001	2	CIRCUIT BREAKER ID: AA1 OBJECTIVE STATE: verify_closed								A	2.0	2.0
001	CAUTION	DO NOT DISTORT RINGS WHILE REMOVING										
001	1	REMOVE THE RINGS FROM THE PISTON USING THE PISTON RING SPREADER.								A	5.0	5.0
002	1	REMOVE THE PISTON PIN RETAINER FROM EACH SIDE.								A	8.0	8.0
003	1	REMOVE TWO SCREWS SECURING THE CARBURETOR TO THE MANIFOLD.								A	10.0	10.0
004	1	INSPECT PISTONS FOR FRACTURES AT RING LANDS SKIRTS AND PIN BOSSES.								A	3.0	3.0

Figure 4 – Task Analysis Report (Page 1 of 4)

CIRCUIT BREAKER LOCATIONS:

CIRCUIT BREAKER ID	LCN	ALC	LCN TYPE	REFERENCE NUMBER	CAGE
AA0	00501	00	P	CIRCUIT20	37375
AA1	00501	00	P	CIRCUIT20	37375

SSC 52C20	SS EVAL E	PERSON ID A	LSAR MAN-HOURS .82(M)	MANUALLY MEASURED MAN-HOURS _____
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SUPPORT/TEST EQUIPMENT AND TOOLS

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	SUBTASK NUMBER	QTY/ SUBTASK	UM	ACTUAL QUANTITY USED	MANUAL EVALUATION
4	PISTON SPREADER	PS5180-91-CN-N1532	10855	1.00	001 005	1.00 1.00	EA EA	_____	_____

SPARE AND REPAIR PARTS

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	SUBTASK NUMBER	QTY/ SUBTASK	UM	ACTUAL QUANTITY USED	MANUAL EVALUATION
X	PISTON	143-0431	44940	1.00	005	1.00	EA	_____	_____

OTHER

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	SUBTASK NUMBER	QTY/ SUBTASK	ACTUAL QUANTITY USED	MANUAL EVALUATION
_____	_____	_____	_____	_____	_____	_____	_____	_____

SUPPORT ITEMS NOT IDENTIFIED IN LSAR

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	ACTUAL QUANTITY USED	MANUAL EVALUATION
_____	_____	_____	_____	_____	_____	_____

REVIEWER'S NAME _____

Figure 4 – Task Analysis Report (Page 2 of 4)

EIAC REFRIG UNT	LCN NOMENCLATURE ENGINE ASSY	START LCN 006	ALC	TYPE P	STOP LCN	UOC DCY	SERV DES ALL	M/L SELECT ALL	ICC SELECTION ALL
DISP OPT LCN	TASK NARRATIVE SELECTION YES	HARDNESS CRITICAL PROCEDURES SELECTION NO	TASK INTERVAL			TASK FUNCTION			

LCN 006	ALC	REFERENCE NUMBER 142-0431ALCA	CAGE 33647	ITEM NAME ENGINE ASSY	TM FUNCT 06	GROUP	CODE		
TASK CD CBOABAA	TASK IDENTIFICATION SCHEDULED MAINT OF ENGINE ASSY	HCP S	HMPC D	TSK .2500	FREQ 0	LSAR .50(M)	ELAP TIME	MANUALLY MEASURED ELAPSED TIME	
INITIAL SCHEDULED INTERVAL 3.0	MB T	INITIAL SAMPLING VALUE	INITIAL SAMPLING TYPE	INITIAL SAMPLING DESCRIPTION	SUBSEQUENT SCHEDULED INTERVAL	MB	SUBSEQUENT SAMPLING VALUE	SUBSEQUENT SAMPLING TYPE	SUBSEQUENT SAMPLING DESCRIPTION
					EVENT TRIGGER: EVENT TRIGGER EIAC: EVENT TRIGGER LCN: EVENT TRIGGER ALC: EVENT TRIGGER LCN TYPE: EVENT TRIGGER TASK CODE:				
INITIAL SCHEDULED INTERVAL 100	MB H	INITIAL SAMPLING VALUE	INITIAL SAMPLING TYPE	INITIAL SAMPLING DESCRIPTION	SUBSEQUENT SCHEDULED INTERVAL	MB	SUBSEQUENT SAMPLING VALUE	SUBSEQUENT SAMPLING TYPE	SUBSEQUENT SAMPLING DESCRIPTION
					EVENT TRIGGER: EVENT TRIGGER EIAC: EVENT TRIGGER LCN: EVENT TRIGGER ALC: EVENT TRIGGER LCN TYPE: EVENT TRIGGER TASK CODE:				

Figure 4 – Task Analysis Report (Page 3 of 4)

SUBTASK NUMBER	TEXT TYPE/ SEQUENCE CODE	SEQUENTIAL TASK NARRATIVE	WORK AREA	PERS ID	MEAN MINUTE	MAN ELAP	MEAN MINUTE	MINUTE TIME
001	CAUTION	ENGINE MAY BE HOT						
001	1	OPEN ENGINE COMPARTMENT.		A	2.0			2.0
002	1	REMOVE OIL CAP		A	2.0			2.0
003	1	REMOVE DRAIN PLUG FROM OIL PAN DRAIN OIL INTO CATCH PAN.		A	8.0			8.0
004	1	REPLACE DRAIN PLUG.		A	2.0			2.0
005	1	REPLACE OIL.		A	10.0			10.0
006	1	REPLACE OIL CAP.		A	1.0			1.0
007	1	CLOSE ENGINE COMPARTMENT.		A	8.0			8.0

SSC 52C20 SS EVAL E PERSON ID A LSAR MAN-HOURS .5(M) MANUALLY MEASURED MAN-HOURS _____

SUPPORT/TEST EQUIPMENT AND TOOLS

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	SUBTASK NUMBER	QTY/ SUBTASK	UM	ACTUAL QUANTITY USED	MANUAL EVALUATION
4	CATCH PAN	PS5180-91-CN-N1111	10855	1.00	003	1.00	EA	_____	_____

SPARE AND REPAIR PARTS

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK				ACTUAL QUANTITY USED	MANUAL EVALUATION
Q	ENGINE OIL	143-10W30	44940	4.00	005	4.00	QT	_____	_____

OTHER

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	SUBTASK NUMBER	QTY/ SUBTASK	UM	ACTUAL QUANTITY USED	MANUAL EVALUATION
								_____	_____

SUPPORT ITEMS NOT IDENTIFIED IN LSAR

ICC	ITEM NAME	REFERENCE NUMBER	CAGE	QTY/TASK	ACTUAL QUANTITY USED	MANUAL EVALUATION
_____	_____	_____	_____	_____	_____	_____

REVIEWER'S NAME _____

Figure 4 – Task Analysis Report (Page 4 of 4)

Chapter 6, Maintenance Plan Report (LSA-024)

6.0 Introduction

The report consists of three parts, which may be selected together or individually. Part I contains general considerations (design description, maintenance plan summary, and maintenance plan rationale) for the *logistics_support_analysis_control_number* selected. Part II describes the repair capability required to support the selected *logistics_support_analysis_control_number* and includes maintenance technical data for the selected *logistics_support_analysis_control_number* and its lower indenture level repairable items, and maintenance significant consumable items. Part III contains a list of the maintenance tasks by category (preventive, corrective, servicing and calibration) for the selected *logistics_support_analysis_control_number* and its lower assembly repairable items. The report can be selected for any operations/maintenance level (task_code, 3rd position) by *logistics_support_analysis_control_number* down to piece part. Spacing between rows and columns is not critical on this report.

6.1 Report Scope

Generation of the report is bounded by mandatory *end_item_acronym_code*, start *logistics_support_analysis_control_number*, *usable_on_code*, and *service_designator_code*; and optional *alternate_logistics_support_analysis_control_number*, stop *logistics_support_analysis_control_number*, and *logistics_support_analysis_control_number_type*. The report consists of the following:

6.1.1 Report Parts Selected:

6.1.1.1 Enter the number of the summary parts desired; "1" for Part I; "2" for Parts I and II; and "3" for Parts I, II and III. If left blank, all three parts will be produced.

6.1.1.2 If Part I only is selected and no header information is desired, the remainder of this selection criteria may be left blank.

6.1.2 Equipment Type Code - If an "S" (Support Equipment) is entered, interval and maintenance cycle will be displayed. If the code is "A" (Air), "M" (Missile) or blank, interval and maintenance cycle will not be displayed.

6.1.3 *item_category_code* - Enter the *item_category_code*'s for the types of support items to be displayed in Parts II and III, respectively. For ease of selection, if *item_category_code*'s 8, M, D, 1, and 7 are all desired, then enter an "A". If *item_category_code*'s 2, 4, 5, 6, and H are all desired, then enter a "B". If *item_category_code*'s N, P, R, G, and 3 are all desired, then enter a "C".

6.1.4 Display Option - The report may be sequenced by *technical_manual_functional_group_code* in lieu of *logistics_support_analysis_control_number* if so desired.

6.1.5 Operations/Maintenance Level - If Parts II and III of the report are to display only a specific operations/maintenance level(s), enter the appropriate code(s). If this field is left blank, all operations/maintenance levels will be selected.

6.1.6 Technical Factor Basis is always 100 Flight Hours.

6.2 Processing

The same qualifying criteria is used for all three parts of this report. *Task_code*'s must first qualify by matching on selected *service_designator_code*, then operations/maintenance levels selected (*task_code*, 3rd position). As a minimum, there must be one *logistics_support_analysis_control_number* within the selected range with a valid entry in Entity

BA_Reliability_Availability_Maintainability_Characteristics_data for either *reliability_availability_and_maintainability_item_function_narrative* or *reliability_availability_and_maintainability_maintenance_concept_narrative* element. For Part II *reference_number* and *commercial_and_government_entity_code* to be produced, there must be a match between the *logistics_support_analysis_control_number* from Entity CA_Task_Requirement_data and the *logistics_support_analysis_control_number* from Entity HG_Part_Application_Provisioning_data (for the corresponding *reference_number* and *commercial_and_government_entity_code*) if the *logistics_support_analysis_control_number* selection is physical (*logistics_support_analysis_control_number_type* of "P"). If the *logistics_support_analysis_control_number* selection is functional (*logistics_support_analysis_control_number_type* of "F"), then a matching physical *logistics_support_analysis_control_number* must be found in Entity XG_Part_Application_Provisioning_data before being matched against Entity HG_Part_Application_Provisioning_data *logistics_support_analysis_control_number*'s.

6.2.1 The following definitions are for the header information that are not contained in GEIA-STD-0007.

6.2.1.1 Date of Initial Submission/Revision/Date of Revision - A nineteen position field containing the date of the initial submission of the maintenance plan, the alphabetic revision indicator, and the date of the current revision. The dates and revision should be entered in the following format including slashes and dashes: MM-DD-YY/A/MM-DD-YY.

6.2.1.2 Preparing Activity - A fifteen position field containing the name of the performing activity having responsibility for the data.

6.2.1.3 Prepared By - A fifteen position field containing the name of the individual having responsibility for accuracy of the data.

6.2.1.4 DLSC Screen Date - An eight position field containing the date indicating when screening results were accepted by the government on all repairable items. The date should be entered in the following format, including dashes: MM-DD-YY.

6.2.1.5 Navy Ammunition Logistic Code (NALC) - A four position alphanumeric code identifying the generic description within the Federal Supply Class. The NALC is assigned by Ships Parts Control Center (SPCC). The NALC is used for fleet reporting/requisitioning of ammunition and to indicate functional interchangeability of items.

6.2.1.6 Maintenance Plan Number - A number identifying each maintenance plan. The Maintenance Plan Number is assigned by the requiring authority.

6.2.2 The following definitions and calculations are for technical factors:

6.2.2.1 Interval - The recommended operating hours or usage rate preceded by an alpha character indicating the type of maintenance requirements for an item. The calculation and codes are as follows:

$$\text{Interval} = \frac{\text{Annual Operating Requirement (AOR)} * \text{Conversion Factor}}{\sum_i^n \text{Task Frequency}}$$

P - Preventive (1st position task_code of A or Z)

C - Corrective (1st position task_code of B, G, R, J, H, L, K, N, S, O or W)

T - Servicing (1st position task_code of P, M, or C)

U - Calibration (1st position task_code of D, E, or F)

AOR - Pulled from Entity AG_Reliability_Requirement_data (*annual_operating_requirement*) based on the values entered for *logistics_support_analysis_control_number*, *alternate_logistics_support_analysis_control_number_code*, *logistics_support_analysis_control_number_type*, and *task_annual_operating_requirements_measurement_base* in Entity CA_Task_Requirement_data for the given item.

Conversion Factor - Pulled from Entity BA_Reliability_Availability_Maintainability_Characteristics_data (*conversion_factor*).

Task Frequency - Pulled from Entity CA_Task_Requirement_data (*task_frequency*). Summation of Task Frequencies (i = 1 to n) within given type of maintenance for subject *logistics_support_analysis_control_number*.

6.2.2.2 Maintenance Cycle - This data is calculated as follows:

$$\text{Maintenance Cycle} = \text{AOR} * \text{Conversion Factor}$$

AOR - Pulled from Entity AG_Reliability_Requirement_data (*annual_operating_requirement*) based on the values entered for *alternate_logistics_support_analysis_control_number_code*, *logistics_support_analysis_control_number*, *logistics_support_analysis_control_number_type*, and *task_annual_operating_requirements_measurement_base* in Entity CA_Task_Requirement_data for the given item.

Conversion Factor - Pulled from Entity BA_Reliability_Availability_Maintainability_Characteristics_data (*conversion_factor*).

6.2.3 Other technical factors are computed as follows:

Maintenance Replacement Factor (Repairables):

$$\text{MRF (Repairables)} = (\text{MTD}_D + \text{MTD}_{CAD}) * \text{MRR}$$

$$\text{Numeric Stockage Objective (NSO)} = \text{recommended_minimum_system_stock_level}$$

Depot Scrap Rate:

$$\text{DSR} = \text{MTD}_{CAD} / (\text{MTD}_D + \text{MTD}_{CAD})$$

Below Depot Scrap Rate:

$$BDSR = MTD_{CAD} * MRR$$

Rotable Pool Factor:

$$RPF = (MTD_F + MTD_H) * MRR$$

System Attrition Rate:

$$SAR = 1 - (MTD_D / (MTD_D + MTD_{CAD} + MTD_{CBD}))$$

Repair Survival Rate:

$$RSR = MTD_D / (MTD_D + MTD_{CAD})$$

RRR = Overhaul Replacement Rate (*overhaul_replacement_rate*)

(Order of *overhaul_replacement_rate* precedence for multiple occurrences of *overhaul_replacement_rate* for a given *logistics_support_analysis_control_number* in Entity HH_Overhaul_Kit_Next_Higher_Assembly_Provisioning_List_Item_Sequence_Number_data: N, B, C, E, A, F, "blank". And '*' is excluded.)

MTD - Maintenance Task Distribution

MTD_F - *intermediate_direct_support_maintenance_task_distribution*

MTD_H - *intermediate_general_support_maintenance_task_distribution*

MTD_D - *depot_shipyard_maintenance_task_distribution*

MTD_CBD - *condemned_below_depot_maintenance_task_distribution*

MTD_CAD - *condemned_at_depot_maintenance_task_distribution*

MRR - *maintenance_replacement_rate_i*

6.2.4 Part II - repair capability items qualify based on valid Entity CA_Task_Requirement_data entry first and *item_category_code* selection next. Maintenance significant consumables qualify out of Entity CI_Task_Provisioned_Item_data based on an *item_category_code* of "AB". I/R (Interchangeability/Replaceability code) is determined based on the *supercedure_interchangeability_code* entered in Entity HP_Design_Change_Information_data based on the following:

IC	I/R
OW	I
OR	I
TW	I
OM	R
TM	R
NI	Blank
NR	Blank

When multiple *supercedure_interchangeability_code*'s are contained in Entity HP_Design_Change_Information_data for a given *reference_number*, *commercial_and_government_entity_code*, *logistics_support_analysis_control_number*, and *alternate_logistics_support_analysis_control_number* combination, then the order of precedence for *supercedure_interchangeability_code* assignments is "I", followed by "R", followed by blank.

6.2.5 Part III - REQ NO (Requirement Number) is a five position counter (first four positions numeric starting with 0001, and last position alphabetic P, C, T, or U) based on the type of task (Predictive (P), Corrective (C), Servicing (T), or Calibration (U)). The counter begins at 0001 for each type of task and resets to 0001 for a new *logistics_support_analysis_control_number*.

6.2.6 Page breaks are required between Part I and II and Part II and III. For Part II, Repairable Items, the report headers (i.e., *logistics_support_analysis_control_number*, *alternate_logistics_support_analysis_control_number*, *reference_number*, etc.) are repeated for each item to be output in this section.

6.3 Report Format See [Figure 5](#).

6.4 Report Sequence

Part I is sequenced by ascending *logistics_support_analysis_control_number* (or *technical_manual_functional_group_code* if selected in the Display Option). Part II is sequenced by ascending *technical_manual_functional_group_code* and ascending *reference_number* within each *technical_manual_functional_group_code*. Part III is sequenced by ascending *logistics_support_analysis_control_number*, then maintenance type with Predicted first, Corrective second, Service third, and Calibration fourth, then by operations/maintenance level (Crew-Depot).

6.5 Data Sources See Table 5.

Table 5 – Data Sources for the Maintenance Plan Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
EIAC	XA	end_item_acronym_code	2040
LCN NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
START LCN	XB	logistics_support_analysis_control_number	2970
TYPE	XB	logistics_support_analysis_control_number_type	2980
ALC	XB	alternate_logistics_support_analysis_control_number_code	1200
STOP LCN	XB	logistics_support_analysis_control_number	2970
UOC	XF	usable_on_code	5790
SERV DES	CA	Task_code (4 th position)	5110
DISP OPT (SELECTED)			
MAINTENANCE LEVEL OPTION (SELECTED)	CA	Task_code (3rd position)	5110
PART 2 ITEM CATEGORY CODES (SELECTED)	HG	item_category_code	2730
PART 3 ITEM CATEGORY CODES (SELECTED)	HG	item_category_code	2730
EQUIPMENT TYPE CODE (SELECTED)			
REPORT PARTS (SELECTED)			
PART I - GENERAL CONSIDERATIONS (HEADER)			
REFERENCE NUMBER	HG	reference_number	4400
CAGE	HG	commercial_and_government_entity_code	1520
ITEM DESIGNATOR	XC	system_end_item_item_designator_code	2750
NSN & RELATED DATA	HA	national_stock_number_federal_supply_classification & national_stock_number_national_item_identification_number & national_stock_number_activity_code	2280 3520 3530

Table 5 – Data Sources for the Maintenance Plan Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
MAINTENANCE PLAN NUMBER (SELECTED THROUGHPUT)			
SERD NUMBER (SELECTED THROUGHPUT)	EF	support_equipment_recommendation_data_number	5030
TM FGC	XB	technical_manual_functional_group_code	5260
SMR CODE	HG	source_maintenance_and_recoverability_code	4830
DLSC SCREEN (SELECTED THROUGHPUT)			
DATE OF SUB/REV/DATE OF REVISION (THROUGHPUT)			
PREPARING ACTIVITY (SELECTED THROUGHPUT)			
NALC (THROUGHPUT)			
PREPARED BY (SELECTED THROUGHPUT)			
REVIEWED BY (MANUAL ENTRY)			
DATE OF APPROVAL (MANUAL ENTRY)			
LCN	BA	logistics_support_analysis_control_number	2970
ALC	BA	alternate_logistics_support_analysis_control_number_code	1200
NARRATIVE (HEADER)			
NOTE: USED TO PROCESS THE ITEM FUNCTIONS	BB	item_function_identifier	2755
ITEM FUNCTION	BB	reliability_availability_and_maintainability_item_function_narrative	3510
MAINTENANCE CONCEPT	BA	reliability_availability_and_maintainability_maintenance_concept_narrative	3510
MAINTENANCE PLAN RATIONALE	BA	reliability_availability_and_maintainability_maintenance_plan_rationale_narrative	3510
PART II – REPAIR CAPABILITY (HEADER)			
REPAIRABLE ITEMS (HEADER)			
LCN	HG	logistics_support_analysis_control_number	2970
ALC	HG	alternate_logistics_support_analysis_control_number_code	1200
REFERENCE NUMBER	HG	Reference_number	4400
CAGE	HG	commercial_and_government_entity_code	1520
LCN NOMENCLATURE	XB	logistics_support_analysis_control_number_nomenclature	2950
NSN & RELATED DATA	HA	national_stock_number_activity_code national_stock_number_cognizance_code national_stock_number_federal_supply_classification national_stock_number_materiel_control_code national_stock_number_national_item_identification_number national_stock_number_special_materiel_identification_code materiel_management_aggregation_code	3530 3540 2280 3550 3520 3560

Table 5 – Data Sources for the Maintenance Plan Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
TMFGC	XB	technical_manual_functional_group_code	5260
IND	HG	indenture_code	2520
I/R (GENERATED)			
SMR	HG	source_maintenance_and_recoverability_code	4830
WEAROUT	BA	wearout_life	5820
MB	BA	wearout_life_measurement_base	3380
AMC	HA	acquisition_method_code	1030
SMIC	HA	special_maintenance_item_code	4870
DMIL	HA	demilitarization_code	1820
RIP	HG	remain_in_place_indicator	4470
AMSC	HA	acquisition_method_suffix_code	1040
HCI	HG	hardness_critical_item	2350
MAINTENANCE TASK DISTRIBUTION	HG	organizational_maintenance_task_distribution intermediate_direct_support_maintenance_task_distribution intermediate_general_support_maintenance_task_distribution depot_shipyard_maintenance_task_distribution condemned_below_depot_maintenance_task_distribution condemned_at_depot_maintenance_task_distribution special_repair_activity_maintenance_task_distribution	3090
MRR	HG	maintenance_replacement_rate_i	3060
MRP (CALCULATED)			
RPF (CALCULATED)			
DSR (CALCULATED)			
BDSR (CALCULATED)			
NSO	HG	recommended_minimum_system_stock_level	4330
SAR (CALCULATED)			
RSR (CALCULATED)			
RRR	HH	overhaul_replacement_rate	3790
INTERVAL (CALCULATED)			
MAINT CYCLE (CALCULATED)			
MAINTENANCE SIGNIFICANT CONSUMABLES (HEADER)			
LCN	HG	logistics_support_analysis_control_number	2970
ALC	HG	alternate_logistics_support_analysis_control_number_code	1200
REFERENCE NUMBER	HG	reference_number	4400
CAGE	HG	commercial_and_government_entity_code	1520
ITEM NAME	HA	item_name	2790

Table 5 – Data Sources for the Maintenance Plan Report

Report Element Name	Entity Code	Data Attribute Name	Data Type Number
NSN & RELATED DATA	HA	national_stock_number_activity_code national_stock_number_cognizance_code national_stock_number_federal_supply_classification national_stock_number_materiel_control_code national_stock_number_national_item_identification_ number national_stock_number_special_materiel_identification_code_materiel _management_aggregation_code	3530 3540 2280 3550 3520 3560
IND	HG	indenture_code	2520
TM FGC	HK	technical_manual_functional_group_code	5260
I/R (GENERATED)			
PART III - MAINTENANCE REQUIREMENTS (HEADER)			
LCN	HG	logistics_support_analysis_control_number	2970
ALC	HG	alternate_logistics_support_analysis_control_number_ code	1200
REQ NO (GENERATED)			
TASK CD	CA	task_code	5110
TASK IDENTIFICATION	CA	task_identification	5150
TSK FREQ	CA	task_frequency	5140
MB	CA	task_annual_operating_requirements_measurement_base	3380
INTERVAL (CALCULATED)			
TM FGC	XB	technical_manual_functional_group_code	5260
SUPPORT ITEM REQUIREMENTS (HEADER) ICC (1-8, D, E, F, G, H, J, M, N, P, R, S, T, U, V, AC, AF)	EA	support_equipment_item_category_code	2730
REFERENCE NUMBER	CG	reference_number	4400
CAGE	CG	commercial_and_government_entity_code	1520
ITEM NAME	HA	item_name	2790
Or ICC (9, K, L, Q, W, X, Y, Z, AA, AB, AD, AE)	HG	item_category_code	2730
REFERENCE NUMBER	CI	reference_number	4400
CAGE	CI	commercial_and_government_entity_code	1520
ITEM NAME	HA	item_name	2790