	Audit Report	
	Report No.	IAR-2022/019
	Area / Scope	GAM-145
	Date of audit	22 March 2022

A AUDIT DETAILS		
1.	Audit Type / Category	Tick where applicable <input type="checkbox"/> Scheduled <input type="checkbox"/> Vendor <input type="checkbox"/> Surveillance <input type="checkbox"/> Product <input checked="" type="checkbox"/> Variation to approval Specify: AMO-145 Safety Equipment Workshop
2.	Audit Reference	1. GAM/CAAM/MOE Issue 2 Revision 04 Dated 04 March 2021 2. Workshop Management Procedure (WMP) Issue 1 Amendment 01, Dated 30 July 2020 3. Engineering Procedure Manual (EP) Issue 2 Rev 0 dated 31 Oct 2021. 4. Capability Evaluation Checklist (GAM/Q-060) 5. Management of Change (GAM/MOC/21/0006) and (GAM/MOC/22/0083) 6. CAD 8601 – Maintenance Organisation Approval
3.	Auditor(s)	1. Omar bin Ahmad 2. Wan Ahmad Fadhil bin Wan Mohd Fauzi
4.	Auditee(s)	1. Bahiran bin Abdul Aziz – Workshop Approval Holder 2. Mohd. Nurfitri bin Basiron – Workshop Approval Holder
5.	Location	Suite Lot 11-14, MRO Centre, Malaysia International Aerospace Centre, Sultan Abdul Aziz Shah Airport, 47200 Subang, Selangor.
B AUDIT SUMMARY		
1	The audit was carried out with the reference made to the latest revision of GAM/CAAM/MOE, Workshop Management Procedure and Workshop Audit Checklist (GAM/Q-008C). Audit methodology used was sampling of documents/product, interview with personnel and observation of the work area.	
2	The audit was carried out to evaluate the compliance and adequacy of procedure (readiness) of the workshop operations to service AW139 Life Raft (Aerosekur) & AW189 Life Raft (Aerosekur). The additional capabilities will be under Rating and Class C6. Management of Change (GAM/MOC/21/0006) and (GAM/MOC/21/0083) had been raised for this matter.	
3	The variation approval requested is to enable GAM capability to perform maintenance checks and service of 1-year inspection to Aerosekur Lief Raft for AW139 and AW189 fleets.	
4	Maintenance for workshop capability to be carried out by GAM to service Aerosekur life raft are as follows: i. Disassembly/ Reassembly ii. Detail Inspection iii. Leak Check iv. Inspection & Replacement	

5 The list of Life Raft (P/N) to service as below.:

- 1) AW139:
Life Raft – Aerosekur P/N: 3G2560V Series.
- 2) AW189
Life Raft – Aerosekur P/N: 8G2560V Series

6 SAFETY RISK ASSESSMENT (HIRARC) FORM (GAM/SMS/H-58(19)) was raised, and all the risk control had been carried out.

7 **Facility**

- a) Safety Equipment (Aerosekur Life raft) Workshop is in the same building with GAM HQ Operation Building. It is a room which consist of the area to study maintenance data, complete the maintenance record, storage of tools, material, and place to perform the intended maintenance.
- b) Room is equipped with air conditioning unit, working bench, shadow board for tools control, air supply for testing, personal computer to access the manual and paperwork purposes and a printer.
- c) The room was found secured and can only be accessed by the authorised personnel only.
- d) Workshop space was found sufficient for the intended maintenance activities.
- e) Lighting found bright enough for inspection and maintenance purposes.
- f) Temperature and humidity found controlled and recorded.
- g) Incoming, holding, and outgoing racks found available. The racks are shared between safety equipment maintenance activities for product segregation.
- h) Safety evacuation plan and safety equipment i.e., serviceable fire extinguisher, and first aid kit found available at the work area.

Note: Refer Appendix 1.

8 **Personnel**

- a) Total of 02 workshop personnel found available for the operation with 01 nominated certifying staff and 01 Workshop supervisor.
- b) The nominated certifying staff (Mohd Nurfitri Basiron) has been assessed and will be granted an additional workshop approval once the variation capability approved by CAAM. Mr. Mohd Nurfitri is an experienced technician from HRD Aerosystem Sdn Bhd. and has been involved the component maintenance since July 2015. He had attended the specific training for A189 and AW139 helicopters life raft conducted by the OEM.

9 **Tools / Equipment / Material**

- a) Verified Tools / equipment / material for availability and serviceability in accordance with the relevant maintenance data for the intended scope of maintenance and found satisfactory.
- b) Tools / equipment are stored and kept nicely with shadow board (as appropriate). The tools' location was also identified in the list for ease of monitoring.

Note: Refer Appendix 2

10 **Maintenance Data**

- a) Maintenance data used to carry out maintenance activities was made available and found current during the audit. The manual was obtained/accessed from the IETP software which installed in the controlled computer available in the workshop. The revision of the manual is controlled/monitored by the technical publication personnel.
- b) The Publication Master List Issue GAM/WS/P-02-2022 dated 11 March 2022 was reviewed and found satisfactory.
- c) During the simulation process, it was noted that wrong controlled form number had been assigned to the workshop worksheet. The form number used was GAM/ENG-001C instead of GAM/E-001C as stated in the WMP 1.9 Workshop Document Generation and Control Para d) – **Refer Appendix 3 (NCR 01)**.
- d) The Workshop Capability Procedure (WCP) for both AW139 and AW189 Life raft not yet established and approved by GAM (**NCR 02**).


11 **Conclusion:**

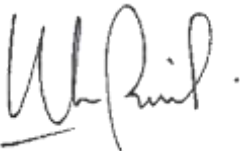
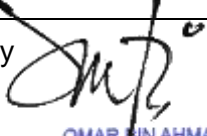

Nil Major finding were found during Audit.

2 minor non-compliances found during the audit.

NCR No.	Description
01	It was noted that it was noted that wrong controlled form number had been assigned to the workshop worksheet. The form number used was GAM/ENG-001C instead of GAM/E-001C as stated in the WMP 1.9 Workshop Document Generation and Control Para d).
02	The Workshop Capability Procedure (WCP) for both AW139 and AW189 Life raft not yet established and approved by GAM

The audit was determined to be satisfactory in general. Respective auditee shall respond to all findings by providing appropriate remedial action within given timeframe.

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C	PREPARATION AND APPROVAL	
1.	Prepared by Signature :  Date : 29 March 2022 Name : Wan Ahmad Fadhil bin Wan Mohd Fauzi	
2.	Approved by Signature :  Date : 29 March 2022 Name :  OMAR BIN AHMAD Quality Assurance Manager Galaxy Aerospace (M) Sdn. Bhd (1040262-D)	



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Appendix 1





Audit Report

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Galaxy Aerospace
TEMPERATURE & HUMIDITY RECORD

HYGROMETER

MONTH		MARCH 2022						
LOCATION		SAFETY EQUIPMENT WORKSHOP						
DAY	A.M.				P.M.			
	TIME	TEMP. °C	HUMIDITY %	SIGNATURE	TIME	TEMP. °C	HUMIDITY %	SIGNATURE
1	0830	23.4	60	[Signature]	1330	24.5	67	[Signature]
2	0830	23.2	53	[Signature]	1330	24.2	61	[Signature]
3	0830	23.4	56	[Signature]	1330	24.1	62	[Signature]
4	0830	23.5	54	[Signature]	1330	24.3	63	[Signature]
5	WEEKEND				WEEKEND			
6	WEEKEND				WEEKEND			
7	0830	23.6	67	[Signature]	1330	23.1	62	[Signature]
8	0830	22.9	56	[Signature]	1330	24.0	60	[Signature]
9	0830	22.7	56	[Signature]	1330	22.8	61	[Signature]
10	0830	23.2	56	[Signature]	1330	23.7	67	[Signature]
11	0830	23.3	55	[Signature]	1330	23.1	60	[Signature]
12	WEEKEND				WEEKEND			
13	WEEKEND				WEEKEND			
14	0830	22.2	50	[Signature]	1330	23.5	56	[Signature]
15	0830	26.5	36	[Signature]	1330	23.8	56	[Signature]
16	0830	23.6	54	[Signature]	1330	26.1	64	[Signature]
17	0830	24.0	57	[Signature]	1330	24.9	73	[Signature]
18	0830	24.4	66	[Signature]	1330	24.7	60	[Signature]
19	WEEKEND				WEEKEND			
20	WEEKEND				WEEKEND			
21	0830	24.1	61	[Signature]	1330	25.1	57	[Signature]
22	0830	23.7	52	[Signature]				
23								
24								
25								
26								
27								
28								
29								
30								
31								

STORAGE, LOGGING, TOLERANCE PARAMETERS

TEMPERATURE TO BE 10° BETWEEN +10°C TO +40°C AND RELATIVE HUMIDITY IS BELOW 70%. ANY HUMIDITY INCREASE ABOVE 60% SHOULD BE MONITORED CLOSELY AS PER ENM 2-61 STORAGE AND SHELF LIFE CONTROL AIRCRAFT PARTS

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Audit Report

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Appendix 3

Galaxy Aerospace
GALAXY AEROSPACE (M) SDN BHD (1085882-D)
 Suite 11-14, 1st Floor, Centre, Malaysia International Aerospace Centre,
 Jalan Terminal Asia Barat, Airport, 47000 Subang, Selangor, Malaysia
 www.galaxy-aerospace.my | email@galaxy-aerospace.my

WORKSHOP WORKSHEET

CLIENT/OWNER: AGENSI PENGLAJUTAN MAUTIM MALAYSIA	AIRCRAFT REG: MYS-01	CSN*:	WORKSHOP WORKSHEET NO: WWS-W02-02T
BASE/FACILITY: GAM SAFETY WORKSHOP	AIRCRAFT SN: 21227	CRP:	WORK ORDER REF: GAM-WS-WO-22-02T
DATE IN: 25 / 01 / 2022 DATE OUT: 02 / 02 / 2022	*IF APPLICABLE		SHEET: 1 OF 3
Reason for issue: EMERGENCY LIFE RAFT ASSY ANNUAL INSPECTION - AW139 LIFE RAFT (RIGHT) -	Raised by and date: BAHIRAN 25 / 01 / 2022		Other requirements/information: N/A

ITEM	Description	Technician	Asst/In-charge	Date
EMERGENCY LIFE RAFT ASSY ANNUAL INSPECTION				
COMPONENT DETAIL:				
	Description	PIN	SIN	D.O.M
	Right-hand life raft assembly	3G2562V00432	236	06 / 2010
	Life raft assembly	00051254	4549400100340	01 / 2010
	Reservoir assembly	45521003	OL42163	08 / 2009
	Cylinder Last Hydro Date	09 / 2019	Pressure	3200 PSI
WARNINGS				
<ul style="list-style-type: none"> The life raft surface is easily damaged by sharp or abrasive object. Do not use pointed or sharp edges tools when you touch or move the life raft. Do not put the life raft on surfaces which have sharp edges or abrasive objects. Do not wear clothes that can damage the life raft fabric. Be careful not to pull the control cable. The high pressure in the charge vessel can possibly cause a fire of the subsystem. Also the leak of the high pressure gas can cause injury to the personnel. 				
Caution				
Only approved persons are permitted to do this procedure.				
1 Life raft container (left/right) - Detailed inspection				
I.A.W AW139 AMP 39-A-25-62-07-00A-31AA-K.				
1.1	Remarks: SATIS			

*The work recorded above has been carried out in accordance with the requirements of the Malaysian Civil Aviation Regulation for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.

*The work recorded above has been carried out in accordance with the requirements of the _____ for the time being in force and in that respect the aircraft / equipment is considered fit for release to service.

*TICK WHERE APPLICABLE

NOTE LABELLED & RETURNED	D.D. RAISED	DUPLICATE COPY	ENGINE RUN	FLIGHT TEST	TERRIN CHK	ADDITIONAL WORKSHEET	NONFORCED DEFECT	PLANNING FORWARD	DIARY UPDATE	STATUS UPDATE	D.D. STATUS	AIRCRAFT LOG BOOK	ENGINE LOG BOOK	PROPELLER LOG BOOK	LOG CARD	DEMOMAP LOG CARD	MIR RECORD BOOK
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FORM REF: GAM/ENG-001C

FOR G

Training record updated by: