

Audit Report

Report No.	IAR-2024/045 R1
Area / Scope	GAM-AMO EC 175
Date of audit	20/06/2024

A AUDIT DETAILS							
1. Audit Type / Category	<p>Tick where applicable</p> <table> <tr> <td><input type="checkbox"/> Scheduled</td> <td><input type="checkbox"/> Vendor</td> </tr> <tr> <td><input type="checkbox"/> Surveillance</td> <td><input type="checkbox"/> Product</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Variation to approval</td> </tr> </table> <p>Specify: To include aircraft type Airbus Helicopters EC 175 fitted with Pratt & Whitney Canada PT6C-67E engine into CAAM AMO scope of approval (Line maintenance).</p>	<input type="checkbox"/> Scheduled	<input type="checkbox"/> Vendor	<input type="checkbox"/> Surveillance	<input type="checkbox"/> Product		<input checked="" type="checkbox"/> Variation to approval
<input type="checkbox"/> Scheduled	<input type="checkbox"/> Vendor						
<input type="checkbox"/> Surveillance	<input type="checkbox"/> Product						
	<input checked="" type="checkbox"/> Variation to approval						
2. Audit Reference	<ol style="list-style-type: none"> CAD 8601 Maintenance Organisation Approval (CAAM Part 145) Iss 01 Rev 00 dated 01 May 2021; GAM/CAAM/MOE Iss 3 Rev 2, dated 14 November 2023; and GAM/EPM/AMO Iss 2 Rev 4, dated 31 Mar 2023; 						
3. Auditor(s)	<ol style="list-style-type: none"> Amira binti Zakaria (Lead Auditor) Muhammad Arzat bin Anuar 						
4. Auditee(s)	<ol style="list-style-type: none"> Syafrul Yamani bin Safruddin Mohd Muqoddim bin Mohd Shakib Izzat Emir bin Mohd Ridzwan 						
5. Location	MIAT-Subang Facility, Jalan Lapangan Terbang Subang, 47200, Shah Alam, Selangor, Malaysia.						
B AUDIT SUMMARY							
1. <u>General Information</u>	<p>This audit was conducted to evaluate the readiness of Galaxy Aerospace (M) Sdn. Bhd. (GAM) to include aircraft type Airbus Helicopters EC 175 fitted with Pratt & Whitney Canada PT6C-67E engine into the scope of line maintenance approval at address as per below detail:</p> <p style="text-align: center;">Hangar 2 Universiti Kuala Lumpur, Malaysia Institute of Aviation Technology (UniKL MIAT), Subang Campus, UniKL MIAT, Persiaran A, Off Jalan Lapangan Terbang, 47200 Subang, Selangor.</p> <p>The audit was carried out with reference to the Capability Evaluation Checklist and MOC Ref. No.: GAM/MOC/23/0042.</p> <p>Audit methodology used during audit were sampling of documents/product, interview with personnel, and inspection of the work area.</p> <p>The scope of audit area covers:</p> <ol style="list-style-type: none"> Facility requirement; Personnel requirement; Tools, Equipment and Material; and Maintenance Data / Documentation. 						

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The variation was requested for external interested clients or GAM future maintenance contract.

GAM had an intention to perform line maintenance as per below details:

Airframe Inspections based on Flight Hours		
Reference	Inspection	Time Limit
ALS-04 MSM-05	50 FH Inspection	50 Hours
Airframe Inspections based on Calendar		
MSM-05	14 D Inspection	14 Days
MSM-05	1 M Inspection	1 Month
MSM-05	3 M Inspection	3 Months
Engine Inspection based on Flight Hours		
Chapter 05.20.00	Visual inspection of the engine oil quantity	15 Hours
Chapter 05.20.00	Power assurance check	25 Hours
Airworthiness Limitations	Enter the accumulated cycles for each Low-Cycle Fatigue (LCF) component in the engine logbook	50 Hours

2. **Facility**

- (a) The scope of work for the EC 175 is for line maintenance task are as follow:
- (i) Pre Flight/ Before First Flight (BFF)/ After Last Flight Check (ALF)
 - (ii) Periodic inspection of 50 FH, and below; and
 - (iii) Periodic inspection of 3 M, and below.
- (b) Facility comprised of maintenance area (hangar), office accommodation, and storage area.
- (c) The hangar space to accommodate the maintenance found sufficient to the current capacity.
- (d) Maintenance racks found available and sufficient for the operation and properly labelled for its use.
- (e) Lighting at the hangar is available, and adequate for intended maintenance. The lighting is provided by the hangar spotlights.
- (f) The facility is also equipped with electrical power source, water and grounding point/port.
- (g) One registered laptop, one registered PC and printer are available for accessing maintenance data, paperwork and administration purposes.
- (h) Apron and dispersal area found sufficient and safe for aircraft arrival and departure activities.

3. **Personnel**

(a) Total of three (3) certifying staff available to certify the maintenance work. Refer below for details:

No.	Name	Category
1.	Mohd Muqoddim bin Mohd Shakib	B1.3 LAE, Engineer-In-Charge
2.	Izzat Emir bin Mohd Ridzwan	B1.3 LAE
3.	Mohd Huzairi Bin Md.Hisma	B2 LAE

(b) The B1.3 certifying had successfully completed the type training course for airframe on 18/11/2022 and engine on 14/10/2022 and the B2 LAE was performing the training on 14/11/2022-16/12/2022

4. **Tool, Equipment and Material**

(a) The tool racks and equipment cabinet were labeled and identified properly. The traceability of tools was maintained and controlled using a book specified for tool loans.

(b) During review Justification for Line Maintenance for H175, it was found that all the requested maintenance does not require any special tools except for 50 FH inspection which require special tools as per below details:

No.	Job Description	Tools Requirement
1.	Pitch Rod End. Functional check by clearance monitoring. FNC	1. Blade Twisting Tool (X623P9001101) 2. Play Measurement Checking Device Kit (X060P41) 3. Dial Comparator Support (703A94-0000-00)
2.	Elastomeric Damper Rod End. Elastomer specific inspection. Operation for limited icing conditions, corrective multiplication factor:3. SDI	1. Main Rotor Head access platform
3.	Damper Rod End. Clearance monitoring. GVI.	1. Play Measurement Checking Device Kit (X060P41)
4.	Pitch Rod. Clearance monitoring. GVI.	1. Dial Comparator Support (703A94-0000-00)

Refer Appendix 1.

(c) It was discovered throughout the audit that Airbus Helicopter Malaysia would be lending any special tools to the auditee. Nevertheless, the auditee is unable to present documentation proving that Galaxy Aerospace (M) Sdn Bhd is authorized to borrow a tool from Airbus Helicopter Malaysia. **(NCR 01)**
Ref.: MOE Part 2.8

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5. **Maintenance Data / Documentation**

(a) The publication involved in this maintenance is as per below details:

No.	Description	Rev. No.	Rev. Date
1.	Orion H175	Rev 20.0	2024-05-27
		Upd 01	2024-06-17
2.	PT6C-67E Maintenance Manual Part No. 3072872	Rev 21.0	2024-05-06
3.	PT6C-67E Parts Catalog Manual Part No. 3072874	Rev 20.0	2024-03-18

(b) The Publication Master List Issue No. GAM/P-2024-19 dated 25 June 2024 was reviewed during the audit, all the maintenance data listed was compare with the laptop ID GAM/IT_ASSET/H267 and found satisfactory. All the manuals were in the current revision.


6. **Conclusion**

There was (1) minor NCR and no major findings raised during this audit. The respective auditee shall respond to all findings by providing appropriate justification within period of time.

In conclusion, GAM MIAT operation has shown compliance for the Part 145 operation and recommended for additional line maintenance for aircraft type Airbus Helicopters EC 175 provided the non-conformance issue had been rectify.

C PREPARATION AND APPROVAL

1.	Prepared by Signature : _____ Date : _____ Name :
2.	Approved by Signature : _____ Date : _____ Name :

	Audit Report	
	Report No.	IAR-YYYY/0XX
	Area / Scope	GAM-XXXX
	Date of audit	DD/MM/YYYY

INSTRUCTION FOR COMPLETING GAM/Q-009, INTERNAL AUDIT REPORT

Report No.	Fill in audit report number, in accordance with quality department internal audit report register						
Area / Scope	<p>Fill in the department / operation that the audit focuses on. Options are as follows:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">GAM-CAMO</td> <td style="width: 50%;">GAM-APMM</td> </tr> <tr> <td>GAM-145</td> <td>GAM-FENNEC</td> </tr> <tr> <td>GAM-VENDOR</td> <td></td> </tr> </table>	GAM-CAMO	GAM-APMM	GAM-145	GAM-FENNEC	GAM-VENDOR	
GAM-CAMO	GAM-APMM						
GAM-145	GAM-FENNEC						
GAM-VENDOR							
Date of audit	<p>Fill in date of audit. If the audit takes more than one day, specify each audit dates.</p> <p>E.g.:</p> <p>01/04/2021 – 03/04/2021 OR</p> <p>01/04/2021, 03/04/2021 – 05/04/2021</p>						
Section A (1)	<p>Select audit type/category as applicable. The selection is not restricted to only one type/category of audit. Specify the audit type/category selected in the space provided, e.g.:</p> <p>Tick where applicable</p> <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> Scheduled</td> <td><input type="checkbox"/> Vendor</td> </tr> <tr> <td><input type="checkbox"/> Surveillance</td> <td><input type="checkbox"/> Product</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/> Variation to approval</td> </tr> </table> <p>Specify: Compliance audit for additional AMO capability on Bell 429 aircraft maintenance</p>	<input type="checkbox"/> Scheduled	<input type="checkbox"/> Vendor	<input type="checkbox"/> Surveillance	<input type="checkbox"/> Product		<input checked="" type="checkbox"/> Variation to approval
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	<input checked="" type="checkbox"/> Variation to approval						
Section A (2)	Fill in the audit reference inclusive of regulation referred to, documents used during audit as well as procedures (manual) referred to during the audit						
Section A (3)	Fill in names of auditors involved in the audit. Specify the lead auditor with a label beside the name, e.g.:						
Section A (4)	Omar bin Ahmad (Lead Auditor)						
Section A (5)	Fill in names of auditees involved in the audit						
Section B	Fill in the address of the audit location.						
Section C (1)	Fill in the summary of the audit, which could include audit methodology, audit elements, observation, and finding.						
Section C (2)	Fill in signature and name of personnel that prepared the audit report, as well as the date audit report was prepared						
Section C (2)	Fill in signature and name of personnel that approves the audit report, and the date of report approval.						