

Report No.	IAR-2019/046
Area / Scope	GAM-145
Date of audit	10/09/2019

A AUDIT DETAILS	
1.	Copy to 1. Engineering Manager 2. Chief Engineer
2.	Purpose The objective of the audit is to check compliance of GAM-145 to add rating of Bell 429 for line and base maintenance
3.	Reference 1. GAM/DCAM/MOE 2. NOTICE 6501 Compliance Checklist
4.	Auditor 1. Adib Nafie Bin Ahmad Yunus 2. Mohamad Amirul Hakim Bin Zulkufli
B AUDIT SUMMARY	
1.	<p>An internal audit of Galaxy Aerospace (M) Sdn Bhd CAAM Approved Maintenance Organisation (Part 145) was performed on 10th September 2019 at Galaxy Aerospace (M) Sdn Bhd HQ office, Suite 11-14, Helicopter Centre, Malaysia International Aerospace Centre Sultan Abdul Aziz Shah Airport, 47200, 47200 Subang, Selangor. The GAM QA auditor consist of Adib Nafie Bin Ahmad Yunus (QAI) and Mohamad Amirul Hakim Bin Zulkufli (QAA).</p> <p>The internal audit was mainly to evaluate Galaxy Aerospace as an acceptable GAM-145 for Bell Helicopters 429 prior to submission application to Civil Aviation Authority Malaysia (CAAM). The focus of audit is to evaluate GAM-145 as capability to provide maintenance related function, due to raise of Management of Change (MOC).</p> <p>The audit methodology are through documents review, interview with key personnel and observation at the work place. Reference was made to the CAAM Malaysia Civil Aviation Regulations and Airworthiness Notices for compliance.</p> <p>Reference Documents:</p> <ol style="list-style-type: none"> 1. Management of Change, GAM/MOC/19/0032 – Bell 429 dated 25/04/2019 2. MOC checklist form, 06092019-01 – Bell 429 3. GAM/Q-008 – Audit Checklist form, Date: 10/01/2018 4. List of Approval Holder, GAM/Q-001.R1 Issue No: 2019-011, Dated 26/08/2019 5. Publication Master Listing, GAM/CAMO-023, Dated 05/09/2019 6. Maintenance Organisation Exposition, GAM/DCAM/MOE issue 1, amendment 8 7. Certificate of Approval, CAAM Approval no. AMO/2016/02 8. Application form DCA/AW/6501-01 (AMO). 9. GAM/Q-018 – Record of Engineering Personnel 10. GAM/Q-039 – Notice 6501 Compliance Checklist 11. Tools and Equipment Master List (Tools). Ref: GAM/E-016 12. Tools and Equipment Master List (Calibrated Tools). Ref: GAM/E-016

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A. COMPLIANCE WITH DCAM NOTICE 6501

- i. Notice 6501 Compliance Checklist was referred. (Ref. 10)
- ii. With regards to (Ref. 10), it was found that most of the basic requirements checklist from AN6501 are comply by GAM-145.
- iii. The aircraft Bell 429, AC Reg. 9M-PEC is currently owned by PLUS Helicopter Sdn. Bhd.
- iv. The aircraft Bell 429 (9M-PEC) is already contracted its CAMO with GAM-CAMO since May 2019.
- v. Therefore, PLUS Helicopter is intent to engage with GAM-145 for its aircraft maintenance activity.

B. MAINTENANCE DATA

- i. Technical publication for BELL 429 helicopter and P&W subscribed by GAM CAMO and distribute to GAM AMO.
- ii. Publication Master Listing is obtain from GAM-CAMO as GAM-CAMO is the CAMO provider for Bell 429. (Ref. 5)
- iii. Publication Master Listing is cross referred with existing publication (hardcopy and softcopy).
- iv. Maintenance manuals for Bell Helicopters 429 is found updated.
- v. Refer enclosed List of Publication Master Listing (Ref. 5) for details.
- vi. Production Planner of GAM-145 is to ensure that Publication Master Listing and updated maintenance publication reference to be ready at maintenance working area.

C. PERSONNEL

- i. List of Approval Holder (Ref 4) was referred.
- ii. The nominated maintenance personnel for Bell 429 as per below:

No	Name	License Number	License Category
1	Mohammad Faizal Bin Aziddin	E 3114	B2 & C
2	Syafrul Yamani Bin Safruddin	E 2790	B1.3
3	Muhammad Bin Mohd Taib	E 3866	B1.3

- iii. Based on the nominated personnel, GAM-145 consist enough certifying staff to carry out maintenance certification on the aircraft.
- iv. Unfortunately, full man-hour plan including support staff for the applied aircraft Bell 429 maintenance is not available and updated.- **NCR No.1 Raised**
- v. Man-hour for section Production Planning, Technical Record and Logistic section also is not available.

D. FACILITIES

- i. The aircraft Bell 429 is planned to be perform maintenance at approved maintenance location in UniKL Miat Subang Hangar 2.
- ii. UniKL Miat Subang Hangar 2 is currently an approved hangar for GAM-145 to perform line and base maintenance for the aircraft of AW139, AW189, EC120B, R44, and R66.
- iii. Hangar size found sufficient, proper docking/maintenance platform available. GAM's facility at MIAT Hangar including store, holding area and office were found to be sufficient for the maintenance and parking of the type of helicopter in request.
- iv. Even the hangar found sufficiently enough to accommodate, GAM-145 need to do proper segregation for difference type of aircraft.
- v. The concern is due to increasing number of aircraft, and if all aircraft is down for maintenance at the same time. Current justification is consider enough due to serviceable aircraft is not parked at UniKL MIAT Hangar 2. – **Noted in Observation.**

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E. TOOLS AND EQUIPMENT

- i. Three type of tools identified for the purposes of Bell 439 aircraft maintenance under GAM-145 which are General Tools, Calibrated Tools, and Special Tools.
- ii. For General and Calibrated Tools, documents item 11 and 12 are referred.
- iii. Calibrated tools was found up-to-date and controlled.
- iv. General tools and calibrated tools found sufficient for aircraft Bell 429 maintenance purposes.
- v. As per MOC raised (Ref. 1), it was mentioned that special tools i.e. high frequency usage tools are required. GAM-145 plan to purchase or rent/loan the special tools. Purchase order or tools agreement / letter of support is not available. - **NCR No.2 Raised**
- vi. For test equipment, it was mentioned that it is partially available in tools store as per attached list. GAM-145 justify that the equipment will be purchase or rental/loan from other organisation. Purchase order or tools agreement / letter of support is required. Refer NCR No.2.

F. PRODUCTION PLANNING

- i. Maintenance data in the form of maintenance manual is stored in the form of soft copy at designated registered PCs. Access to the maintenance data is available to GAM personnel, and is updated every time new publications are released by production planner, in accordance with EPM 3-01, Publication and Maintenance Data Flowchart.
- ii. Workpack and worksheet raised by maintenance planner is hand over to production planner. Production planner will then check the documents before handing over and distribute to GAM-145 maintenance personnel to perform aircraft maintenance.
- iii. After completion of maintenance, the production planner shall ensure that all the worksheet have been closed and completed.
- iv. The production planner will check the documents for any discrepancies. Once satisfied, the production planner will make a copies, and the original documents will be pass to CAMO for storage of record.
- v. *"The organisation shall have a system appropriate to the amount and complexity of work to plan the availability of all necessary personnel, tools, equipment, material, maintenance data and facilities in order to ensure the safe completion of the maintenance work."* – AN6501 Para 7.7(a)
Found Satis

2. Findings / observation

Observation:

- 1) The approved aircraft maintenance location of GAM-145, UniKL MIAT Hangar 2 is found satisfactory for aircraft Bell 429 parking and maintenance. But, it is concern in the future that the facilities size might not be enough to accommodate due to increasing number or aircraft manage under GAM-145.
- 2) Current justification that the facilities is enough to accommodate the aircraft is because most serviceable aircraft are parked outside facilities or at other places. The concern comes if all the aircraft down for maintenance at the same time which would consume high facilities space thus, disturb the maintenance activity.



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Findings:

Minor:

- 1) Man-hour plan including support staff, production planning, technical records, and logistic section for the applied aircraft Bell 429 maintenance is not available and updated. - Ref: CAAM AN6501 Para 7.2(d)
- 2) Tools agreement / letter of support or purchase order (PO) for special tools and test equipment is not available for aircraft Bell 429. - Ref: CAAM AN6501 Para 7.4(a)

Major:

No major findings.

3. Conclusion

GAM is qualified for additional of Bell 429 Helicopter line and base maintenance provided that all findings are cleared and verified by Quality Assurance Department (QAD) prior submission to CAAM.

4. Prepared by

Signature:

Date:

MOHAMAD AMEL
HACIM BIN ZULICFLI

10/09/2019

5. Approved by

Signature:

Date:

ADIB NAFIE BIN AHMAD YUNUS
Quality Assurance Inspector
Galaxy Aerospace (M) Sdn Bhd (1040262-D)


10/09/2019

6. Distribution

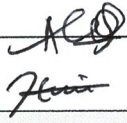
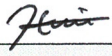
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| <input type="checkbox"/> Accountable Manager | Date: |
| <input type="checkbox"/> CTOO | Date: |
| <input type="checkbox"/> Others | Date: |

INTERNAL AUDIT / SURVEILLANCE FINDINGS

Part I – FINDING SECTION			
COMPANY: Galaxy Aerospace (M) Sdn. Bhd.	PERIOD:	1 Days (10/09/2019)	
LOCATION: GAM-145	AREA: GAM-145		
TYPE: AUDIT SURVEILLANCE			
REFERENCE: CAAM AN6501 Para 7.2(d) GAM MOE Para 1.7	LEVEL OF FINDING:	<input type="checkbox"/> Level 1 – Require immediate actions <input checked="" type="checkbox"/> Level 2 – Rectify within 30 days <input type="checkbox"/> Level 3 – Rectify within 3 months	
FINDING: As per reference above, it was found that man-hour plan including support staff, production planning, technical records, and logistic section for the applied aircraft Bell 429 maintenance is not available and updated.			
ADIB NAFIE BIN AHMAD YUNUS MOHAMAD AMIRUL HAKIM BIN ZULKIFLI		Date: 17/9/19	Signature:  
Part II – CORRECTIVE ACTIONS			
Auditee		Date:	Signature
Part III – STATUS (The corrective actions have been reviewed, verified and found to be:)			
Status:			
Verified by Auditor		Date:	Signature

 Galaxy Aerospace <small>maintenance . repair . overhaul</small>	Non Compliance Request	
	Audit reference:	IAR-2019/046
	NCR No.	2

INTERNAL AUDIT / SURVEILLANCE FINDINGS

Part I – FINDING SECTION			
COMPANY: Galaxy Aerospace (M) Sdn. Bhd.	PERIOD:	1 Days (10/09/2019)	
LOCATION: GAM-145	AREA: GAM-145		
TYPE: AUDIT SURVEILLANCE			
REFERENCE: CAAM AN6501 Para 7.4(a) GAM MOE Para 2.6	LEVEL OF FINDING:	<input type="checkbox"/> Level 1 – Require immediate actions <input checked="" type="checkbox"/> Level 2 – Rectify within 30 days <input type="checkbox"/> Level 3 – Rectify within 3 months	
FINDING: As per reference above, it was found that tools support agreement / letter of support or purchase order (PO) for special tools and test equipment is not available for aircraft Bell 429. According to MOC raised, it was stated that special tools is needed and test equipment possess by GAM-145 is partially available in tools store. GAM-145 shall provide evidence in form of agreement / letter of support or purchase order that GAM-145 will make the tools ready and available during performing maintenance of Bell 429.			
Auditor	ADIB NAFIE BIN AHMAD YUSUF MOHAMAD AMYKUL HAKIM	Date: 17/9/19	Signature:  
Part II – CORRECTIVE ACTIONS			
Auditee		Date:	Signature
Part III – STATUS (The corrective actions have been reviewed, verified and found to be:)			
Status:			
Verified by Auditor		Date:	Signature

