

Report No.	IAR-2020/027
Area / Scope	GAM-AMO (MIRI AW189)
Date of audit	02 – 03 JUL 2020

A		AUDIT DETAILS
1.	Copy to	Engineering Manager
2.	Purpose	To evaluate Miri hangar for additional line maintenance location for AW189 aircraft.
3.	Reference	i. GAM/CAAM /MOE Issue 2 Revision 0
		ii. Airworthiness Notice 6501
4.	Auditor	i. Nur Amirah Izani Binti Kamarzaman
		ii. Mohammad Nizam bin Jaafar
B		AUDIT SUMMARY
1.	<p>An internal audit carried out to evaluate the compliance of GAM operation for the purpose to approve JPBM Miri facility as an Approved Maintenance Organisation with AW189 line maintenance capability. GAM is required to provide line maintenance for 1 x JPBM AW189 aircraft which to be positioned at JPBM Miri as per the customer requirement in accordance with JBPM/IP/UDA/PUS:100-3/6. The audit is also to verify the previous desktop audit carried out on the facility (Audit report no. IAR-2020/022). The audit is carried out at Pengkalan Operasi Udara Miri, JBPM Miri facility which is located at General Aviation, Hangar 3 MAHB Miri Airport, 98000 Miri Sarawak.</p> <p>Audit methodology used are sampling of documents/product, interview with personnel and observation of the work area. Reference was made to the applicable CAAM Malaysia Civil Aviation Regulations and Airworthiness Notices for compliance.</p> <p>The scope of this audit covers;</p> <ul style="list-style-type: none"> ➤ Facility requirement; ➤ Personnel requirement; ➤ Tool / Facility / Equipment requirement; ➤ Maintenance Data / Documents. <p>Personnel Contacted (Auditee)</p> <p>Mr. Muhamad Nazrin bin Abd Aziz AW189 B1 LAE (In-charge) Mr. Ahmad Zhafri bin Mohd Nor AW189 B2 LAE</p> <p>Reference Documents:</p> <ol style="list-style-type: none"> 1. Publication Master Listing, Issue No: GAM/P-2020-13 dated 03 July 2020 2. Maintenance Organisation Exposition, GAM/CAAM/MOE Issue 2, Revision 0 3. List of Approval Holder 2020-008 dated 02 Jun 2020 4. Email thread – Weststar Aviation Services tool support 5. Management of Change, GAM/MOC/20/0025 dated 02/04/2020 6. Arahan Gerakan Operasi Pesawat AW189 ke Miri Sarawak, JBPM/IP/UDA/PUS:100-3/6 7. Aircraft Maintenance Program, JBPM/CAMO/AMP/AW189 issue 2 	

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8. Surat Kelulusan Bagi Permohonan Menggunakan Peralatan Milik Jabatan Bomba Dan Penyelamat Malaysia (JBPM) Di Hangar Pengkalan Udara JBPM Miri Sarawak. JBPM/IP/UDA:300-3/6/1 Jld.2(13)

A. FACILITIES

- i. The facility is located between Weststar Aviation Services and Layang Layang Aerospace Sdn Bhd Miri operation facility.
- ii. The access to the facility is controlled by MAHB.
- iii. Facilities comprised of maintenance area (hangar), office accommodation, and storage area.
- iv. The existing hangar is presently an approved DGTA maintenance facility for Mi 17 aircraft which maintained by AIROD Sdn Bhd.
- v. Office accommodation is shared between operations (Mi 17 & AW189). The office is consist of 02 rooms and a pantry. 1 x room for AIROD and 1 x room for GAM operation.
- vi. GAM office room is equipped with working table, chair, whiteboard, and cabinets. The room is permitted to be used by JPBM for GAM operation. Surat JBPM/IP/UDA:300-3/6/1 Jld.2(13) is refers.
- vii. Laptop and table printer is available for assessing maintenance data, paperwork and administration purposes, however, the internet connection is temporarily made available thru the staff personal hotspot. **(Observation 01)**.
- viii. The hangar space to accommodate the maintenance found sufficient to the current capacity (1 x Mi 17 and 1 x AW189).
- ix. NCR 01 of IAR-2020/022 verified and found 02 maintenance racks found available and sufficient for the operation. However, the racks are not properly labelled for its use. **(Observation 02)**
- x. Lighting at the hangar is available, and adequate for intended maintenance of AW189. The lighting is provided by the hangar spotlights.
- xi. NCR 02 of IAR-2020/022 verified and found the POL cabinet to store POL items available at the hangar. It is shared between operations (Mi 17 & AW189). The arrangement to purchase the POL cabinet has also been made available for GAM operation.
- xii. Production waste containers are available at the hangar. The container is segregated for general and schedule waste.
- xiii. First aid box, eyewash, emergency shower, and fire extinguisher are available at the hangar.
- xiv. The facility is also equipped with electrical power source, water and grounding point/port. However, grounding cable is not available for the operation. **(Safety Audit NCR)**
- xv. The emergency evacuation plan found available at the facility. The plan is made available for evacuation in the case of emergency.
- xvi. Marking was made available for aircraft parking positioning in the hangar.
- xvii. Apron and dispersal area found sufficient and safe for aircraft arrival and departure activities.

B. PERSONNEL

- i. GAM will deploy LAEs and technicians on a rotation basis (2 weeks rotation). Presently, GAM has 5 LAEs rated for AW189, 3 of them rated for B1.3 while the other 2 rated for B2. The list is as follows:

No	Name	AMEL category	Approval No.
1	Muhammad bin Mohd Taib	B1.3, C	M010

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2	Muhamad Nazrin bin Abd Aziz	1.3	M030
3	Nur Afiq Sulaim bin Noor Zaidi	1.3	M012
4	Ahmad Zhafri bin Mohd Nor	B2	M014
5	Zulfika bin Rosdi	B2	M011

- ii. Staff personal protective equipment also found available at the facility.

C. MATERIALS, TOOLS AND EQUIPMENT

- i. Standard tools and equipments for the intended maintenance found available at the base. The tools and equipments are controlled on daily basis. 2 x torque wrenchs found available and serviceable. Additional tools and equipments will be brought from the main base when the need arise.
- ii. The special tools and equipment needed for the operation can be borrowed from Weststar Aviation Services Sdn Bhd (Miri) or brought from the main base when the need arise.
- iii. Ground support equipment (GSE) i.e tow bar, tow truck, working platform/step and compressor wash equipments for the maintenance operation found available at the base.
- iv. NCR 03 of IAR-2020/022 verified and found ground power unit is available and permitted to be used by JBPM. Surat Surat JBPM/IP/UDA:300-3/6/1 Jld.2(13) is refers.
- v. NCR 04 of IAR-2020/022 verified and found working platform is available at the hangar. The platform is temporarily using the Mi 17 platform which is compatible to be used. The arrangement to purchase the AW189 working platform has been made available and expected to be delivered latest by 17 July 2020.
- vi. Fire extinguisher for engine start up / ground run operation found available, however it is due for servicing (expired on March 2020). **(Safety Audit NCR)**
- vii. Nitrogen bottle also found available for the operation.

D. MAINTENANCE DATA

- i. For the maintenance purposed, 1 x laptop (GAM-ITASSET/H057) has been positioned at the facility and installed with proper maintenance data. Additional laptop will be brought together with the team when the need arise.
- ii. The laptop checked for publication version and found to be satisfactory. The publication is assess thru IETP which installed and controlled by the Technical Publication Personnel. Publication updates is published in the Publication Master List. Links to the updates are provided for each publication update by the Technical Publication Personnel.
- iii. The maintenance documents were scanned once maintenance completed and e-mailed to production planner office. The original hardcopy of maintenance documents was sent back to main base on every rotation basis.
- iv. Daily Maintenance Book found available and updated. The maintenance book is handed over on every rotation basis.

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2. Findings / observation

Observation:

- i. Internet connection is not permanently available for the operation.
- ii. The maintenance racks found not properly labelled for its use.

Findings:

Minor:

02 minor findings found during the audit. The audit findings are reflected in the Safety Audit NCRs (GAM-SAR/005/20).

Major:

No major finding found during the audit.

3. Conclusion

Other than NCR raised during the audit, JPBM Miri operation has shown compliance for the Part 145 operation and recommended for additional line maintenance location for AW189 aircraft.

4. Prepared by

Signature:

Date: 06 July 2020



NUR AMIRAH IZANI KAMARZAMAN
Quality Assurance Inspector
Galaxy Aerospace (M) Sdn. Bhd
(1040262-D)

5. Approved by

Signature:

Date: 06 July 2020



OMAR BIN AHMAD
Quality Assurance Manager
Galaxy Aerospace (M) Sdn. Bhd
(1040262-D)

6/7/2020

6. Distribution

- Accountable Manager | Date:
- CTOO | Date:
- Others | Date:

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Figure 1: Tow truck



Figure 2: AW189 tow bar



Figure 3: Ground Power unit



Figure 4: Maintenance Racks



Figure 5: Fire extinguisher



Figure 6: Nitrogen bottle



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Figure 7: Hangar Area



Figure 8: GAM office room



Figure 9: Hangar lighting



Figure 10: POL cabinet



Figure 11: Grounding port



Figure 12: Torque Wrench

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Figure 13: Working platform



Figure 14: Laptop



Figure 15: Waste containers



Figure 16: Standard toolbox



Figure 17: Emergency shower and eyewash

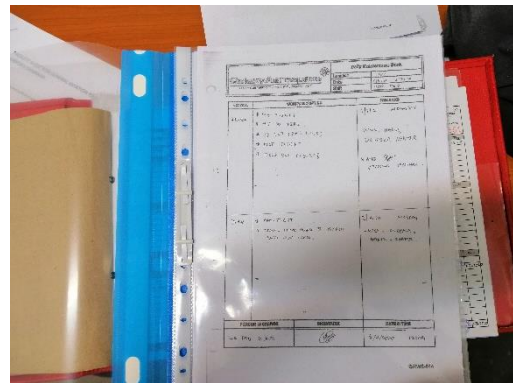


Figure 18: Daily Maintenance Book



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Figure 19: Parking marking at the hangar