

Report No.	IAR-2021/002
Area / Scope	GAM-AMO-SAFT 2758
Date of audit	15 Jan 2021

<b>A AUDIT DETAILS</b>							
1. Copy to	Engineering Manager						
2. Purpose	The objective of the audit is to carry out audit on GAM Avionics Workshop as per CAA Malaysia requirement Notice 6501 for the purpose to include additional part number into GAM Workshop Capability List.						
3. Reference	1. CAAM Notice 6501						
	2. GAM/CAAM/MOE Issue 2 Revision 03						
	3. Workshop Procedure Manual Issue 1 Revision 01						
	4. Workshop Capability Procedure (WCP 2.1.2)						
4. Auditor	Nur Amirah Izani Binti Kamarzaman						
<b>B AUDIT SUMMARY</b>							
1.	<p>Audit of Avionics Workshop carried out to evaluate the compliance and adequacy of procedure (readiness) of the Avionics Workshop for SAFT Nickle Cadmium Battery (P/N:2758) aircraft battery maintenance operation. The additional part no. was requested by the external interested customer/client. MOC No.: GAM/MOC/21/0004 dated 15 January 2021 raised.</p> <p><b><u>Description, Scope And Model of Component Under Workshop Capability</u></b></p> <p><b>Description</b></p> <p>This section details the GAM capability to perform maintenance checks and service to the specified SAFT Aircraft Battery Ni-Cad Series.</p> <p><b>Scope of Capability</b></p> <p>a. Maintenance for workshop capability to be carried out by GAM for SAFT Aircraft Battery Ni-Cad Series are as per follows:</p> <ul style="list-style-type: none"> <li>i. Disassembly / Reassembly</li> <li>ii. Charging and Testing</li> <li>iii. Periodical Check</li> <li>iv. Regular Check</li> <li>v. General Overhaul</li> <li>vi. Repair &amp; Replacement</li> </ul> <p><b>Model of Component under Workshop Capability</b></p> <table border="1" data-bbox="375 1854 1310 1989"> <thead> <tr> <th>Components</th> <th>Model/ Series</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td>Nickel-Cadmium Battery</td> <td>SAFT Ni-Cad Battery</td> <td>2758</td> </tr> </tbody> </table>	Components	Model/ Series	Part Number	Nickel-Cadmium Battery	SAFT Ni-Cad Battery	2758
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Nickel-Cadmium Battery	SAFT Ni-Cad Battery	2758					

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The audit was carried out with the reference made to the CAAM Notice 6501, and latest revision of GAM/CAAM/MOE, Workshop Procedure Manual and Workshop Capability Procedure. Audit methodology used are sampling of document, interview with personnel and observation of the work area.

The scope of this pre-audit covers;

- Facility requirement;
- Personnel requirement;
- Tool / Equipment / Material requirement;
- Maintenance Data / Documents;
- Demonstration of First Article Inspection (SAFT (P/N: 2758)) i.a.w the technical reference up to general overhaul capability)

Demonstration of FAI of the SAFT (P/N: 2758) was unable to be performed due to the unavailability of the article. Audit however been carried out on the workshop to assess the availability of the tools / equipment / material, personnel competence, maintenance data and facilities to perform the maintenance.

The requirements to perform maintenance to the requested part number found to be similar to the SAFT nickel cadmium battery part numbers approved in the GAM Workshop Capability List.

**Personnel Contacted (Auditee)**

Mr. Mior Mohd Adib  
Mr. Fakhqursy

Avionics Workshop Supervisor (Certifying staff)  
Avionics Workshop Technician

**Facility**

- a) Avionics (Nickel Cadmium Workshop) is located in the same building with GAM HQ Office 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) The Nickle Cadmium maintenance area is a 9.8 x 10 square feet room equipped with an air conditioning unit, working bench, racks, electrical power source, ventilation fan, sink and heavy-duty lifting equipment.
- c) Personal computer and printer for accessing manual, paperwork purposes process found available during the audit (GAM/IT\_ASSET/H138).
- d) The room was found secured and can only be accessed by the authorised personnel only.
- e) The maintenance area space was found sufficient for the intended production activities. Working area also found convenient and suitable to carry out maintenance.
- f) Lighting found bright enough for inspection and maintenance purposes.
- g) Temperature and humidity are controlled by using the air-conditioning unit installed in the work area. The temperature is to be controlled between 15 to 35 degree Celsius as per the OEM procedure and properly recorded in the Temperature and Humidity Record form. Record reviewed and found satisfactory.
- h) Incoming, holding, and outgoing racks found adequately available and suitably labelled.
- i) Safety evacuation plan and equipment i.e. serviceable fire extinguisher, eyewash, and first aid kit found available at the work area.

**Maintenance Data / Document**

- a) The Publication Master List Issue GAM/WS/P-01-2021 dated 15 January 2021 found available for viewing.
- b) Technical references used to carried out maintenance check and found updated and from the approved source. The manual was accessed in the Google Drive (Workshop – Maintenance Data Folder) controlled by the Technical Publication Personnel.
- c) The references were obtained thru SAFT Battery website. Latest revision of SAFT Aircraft Battery IPL and Service Bulletins / Letters also can be obtained from the website (<https://mysaft.saftbatteries.com>).

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- d) The workshop worksheet reviewed and found to be satisfactory. The worksheet used to record the maintenance activities was the same worksheet template used for other approved SAFT Aircraft battery part numbers.
- e) The applicable reference manuals are as follow;

Part Number	Manuals
2758	SAFT Component Maintenance Manual with Illustrated Parts List CMM 24-38-51 Latest Revision.

**Tools / Equipment / Material**

- a) Tools / equipment / material checked for availability and serviceability in accordance with the relevant maintenance data for the intended scope of maintenance.
- b) List of Tools / equipment found for tool control. The tools location and calibration due are also identified in the list for ease of monitoring.
- c) The finding on tools for the intended maintenance is as follows;

DESIGNATION	USAGE			QA REMARKS
	PERIODICAL CHECK	REGULAR CHECK	GENERAL OVERHAUL	
Battery Charger and Discharger <i>Constant Current Charging Range 0 – 60 A</i> <i>Constant Current Load Bank Range 0 – 60 A</i>	X	X	X	Available CTE/61
Servicing Kits <i>SAFT Battery Tool Kit P/N: 416161</i>	X	X	X	Available ST 016
Digital Insulation Multimeter (Capable to measure Voltage and Current)	X	X	X	Available CTE/27
Standard Mechanic's Tools	X	X	X	Available
Infrared Thermometer	X	X	X	Available CTE 66
Torque Wrench <i>(Fully insulated) 0-15 N.m (0-133 lbf.in)</i>	X	X	X	Available CTE/80
Stiff Bristle Brush (non-metallic)	X	X	X	Available
Heat Gun			X	Available GSE 189

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**Personnel**

- a) Total of 02 Avionics workshop personnel found available for the Operation, 01 Supervisor and 01 technician.
- b) The nominated certifier (Mr. Mior Mohd Adib) is GAM approved certifier for Nickle-Cadmium battery, Lead Acid battery and ELT (GAM AH No.: GAM C001).
- c) Personnel protective equipment i.e. protective apron, safety shoe, protective goggles, and safety gloves also found available for the workshop personnel use.

2. Findings / observation

**Observation**

Nil

**Minor Finding**

Nil

**Major Finding**

Nil

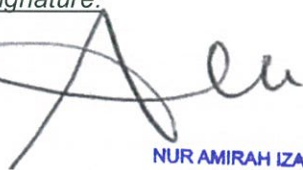
3. Conclusion

Nil findings found during the audit. Avionics - SAFT Nickle Cadmium battery operation found to be satisfactory and recommended for the additional part number.

4. Prepared by

Signature:

Date: 15 January 2021



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

5. Approved by

Signature:

Date:



OMAR BIN AHMAD  
Quality Assurance Manager  
Galaxy Aerospace (M) Sdn. Bhd  
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18 JAN 2021

6. Distribution

**Audit Report**

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Managing Director      | Date: .....  
 Others                              | Date: .....