

TO: GAM AMO/DOA

C.C:

- Managing Director (MD)
- Chief Technical Operating Officer (CTOO)
- Quality Assurance Manager (QAM)
- Commercial Department (COM)

REPORT NO: GAM/SMS-SR/001/19.

FUNCTION: Safety Evaluation Report

VENUE/AREA: Royal Malaysian Navy (RMN) Lumut.

COMMENCE DATE: 16 July 2018

DISTRIBUTION:

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| • Managing Director (MD) | For Info |
| • Chief Technical Operating Officer (CTOO) | For Info |
| • Quality Assurance Department (QA) | For Info |
| • Engineering Department Part 145 (AMO) | For Action |
| • Design Organization Approval (DOA) | For Action |
| • Safety Department (SMS) | For Action |
| • Commercial Department (COM) | For Info |

1. INTRODUCTION:

A safety evaluation report raised for initial overviews by Safety Department to identified, evaluate and measure hazard, risk and other related safety compliance to meet the company's policies and standards with in compliance with local existing safety requirements to ensure the work commencement of fuselage skin repair of Royal Malaysian Navy (RMN) AS355 (Fennec) Helicopter, registration number M502-6 at RMN base Lumut (KD Rajawali), Markas Udara TLDM Maintenance Hangar by (GAM) DOA and AMO145 department by ensure a sensible and proportionate standards of safety management systems to ensure the safe of operational, property, assets, company interests, wellbeing of our staff and others who may be affected by our activities, and minimize the losses to our business from incident, accident and injury and responsible to ensure that the structured processes and clear direction to sustain a safe and risk aware workplace while preserving and improving our operational capability as per Safety Management Systems (SMS) requirement.

2. EVALUATION SUMMARY:

Safety evaluation is the systematic collection of information, provide justification and reliability assessment of TLDM maintenance facility on significant hazard, risk and other current observable threats to aircraft, personnel or equipment safety and determination degree of safety measure and mitigation action taken to reach safety acceptable level under the SMS requirements. As a result, GAM Safety Department will provide a standard-compliant requirement that can be integrated with existing safety procedure within as a proof of safety compliance. The conclusions in this report have been verified where appropriate by physical inspections conducted and onsite safety data collection.

Note: photos cannot be taken for security reasons.

3. REFERENCE DOCUMENT:

- Management of Change (MOC) Ref no. GAM/MOC/19/0039
- Management of Change (MOC) Ref no. GAM/MOC/19/0040
- Design Repair Approval Sheet (DRAS) Ref no. GAM004/DRAS

4. PERSONNEL CONTACTED:

- Leftenan Edzlan (*Fennec Project Coordinator*)
- CMDR Irwan (*Project Manager*)
- Abdul Aziz bin Mansor (*Project Leader*)

5. FACILITY SAFETY OVERVIEWS:

MAINTENANCE FACILITY

Facilities safety within compliance with regulations will foster developing and maintaining a safe and secure work environment no matter where we are. Protecting the safety of employees, aircraft, assets and the environment is a core value of Safety Management. We will not be satisfied until the workplaces are safe from hazards, our employees are injury-free, our operational are safe and a commitment to ensure safety is a priority in our business. RMN base Lumut, maintenance facility has achieved the safety and security standard as per requirement within conjunction of safety requirement outlined by Galaxy Aerospace to our staff to performed maintenance activities. However, there were a room of improvement in some areas with regard the requirement of the maintenance activities and personal safety will be highlighted in recommendation section. In overall the facility is found acceptable as per detail below:

A. MEANS OF ESCAPE

A means of escape is a clear, ongoing and obstruction free way to get from any area within a structure to an outside area with include exit access, the exit and exit discharge in a case of emergency. TLDM has established their *Emergency Evacuation Plan*, as a guidance and to ensures that all employees are familiar with and are able to play their part and response in an event of emergency evacuation.

B. FIRE PROTECTION AND PREVENTION SYSTEMS

Fire protection refers to measures taken to prevent fire from becoming destructive, reduce the impact of an uncontrolled fire, and save lives and property. Fire protection system is an integrated approach of mitigating the unwanted effects of potentially destructive fires. It involves the study of the behavior, compartmentalization, suppression and investigation of fire and its related emergencies. The fire protective system in TLDM maintenance facility are meet the regulatory standards.

C. ILLUMINATION

A proper lighting or illumination protects workers' eyes from strain and protects workers' bodies from accidents. Requirements are provided for four different types of workplace lighting: general, task, and emergency. Lighting in TLDM maintenance facility (hangars) is found adequate and meet the regulatory standard to work in a low visibility condition. However, a portable task lighting is required for the activities.

D. WORKPLACE ENVIRONMENT

Workplace environment in TLDM maintenance facility was found conducive, suffice and safe. Workplace environment may affect how employees feel about their jobs and can influence their work performance. The physical environment is one factor that can affect employee productivity, but the way staff members interact and how they are treated also play a role in the overall work climate.

Designated area for the repair activities are well barricaded for segregation with other aircraft. Workbench are sufficed and mobile platform and maintenance step is adequate to support the activities and in a good condition. Dedicated waste disposal generated from the activities is available. Hangar area is well ventilated.

E. OTHER SAFETY ENHANCEMENT INITIATIVES

To improved and enhanced safety for Galaxy Aerospace at TLDM maintenance facilities with developed plans with one or more intervention strategies to prevent or mitigate problems associated with hazard, accident and incident called Safety Enhancements. Safety Enhancements may involve any changes as follows Hierarchy of controls for means improvement that was include:

- Procedure (*administrative control*)
- Equipment Installation (*engineering control*)
- Personal Protective Equipment (*PPE control*)

6. SAFETY RECOMMENDATION

Safety recommendation is a proposal from Safety Department to derived information from an evaluation made with the intention of preventing accidents or incidents and which in no case has the purpose of creating presumption of blame or liability for an accident or incident as below:

- Galaxy personnel to carry out tool-box meeting before performing the task daily.
- FOD check and housekeeping must carry out before and after the activities daily.
- An appropriate Personal Protective Equipment (PPE) must be wear as required.
- Portable task lighting is required for additional illumination.

7. CONCLUSION

RMN base Lumut (KD Rajawali), Markas Udara TLDM Maintenance Hangar has complied with all necessary requirement to reinforce the commitment to the implementation, promotion and continuation of safety and healthy workplace throughout the organization as required. Safety Department to ensure that all risks arising from the work area can be managed by a foresighted, careful behavior and cooperation by both parties.

RAISED BY:

Signature/Stamp:

Date: 20 July 2019


MOHAMMAD NIZAM BIN JAAFAR
Galaxy Aerospace (M) Sdn Bhd
Safety Manager

ISSUE UNDER THE AUTHORITY OF SAFETY DEPARTMENT

GAM/SMS-SDR/16