ENGINEERING NOTICE			
TO	All AMO Personnel	**ISSUE NO**	GAM/EN/23/05
COMPLIANCE	Immediately	**ISSUE DATE**	06 May 2023
SUBJECT	Grounding of aircraft during maintenance		

Background

During several audits conducted by Quality Assurance Inspectors and Airworthiness Authorities, it has been observed that some aircraft were not grounded during maintenance. This is a concerning issue that needs to be addressed immediately to prevent any potential safety hazards. Proper grounding procedures must be followed by all personnel involved in aircraft maintenance to ensure a safe working environment.

Applicability

The applicability of this notice is to all GAM AMO personnel who are involved in aircraft maintenance. This notice highlights the importance of properly grounding an aircraft during maintenance to ensure the safety of personnel and equipment. It is mandatory for all personnel to be aware of the contents of this notice and comply with the instructions provided. Non-compliance with the instructions outlined in this notice may result in the issuance of a non-compliance report by the auditor, as well as requiring the non-compliance personnel to provide an explanation letter.

Compliance

Proper compliance with the grounding procedures during aircraft maintenance is crucial to ensuring the safety of both maintenance personnel and the aircraft itself. The process involves discharging any static electricity accumulated during operation by connecting the aircraft to a suitable ground point. This is particularly important during fueling operations and when working with flammable materials, as static charges can pose a significant safety risk.

Failure to ground the aircraft properly during maintenance can result in electrostatic discharge, which can damage sensitive electronic equipment and avionics onboard the aircraft.

It is important to note that different aircraft manufacturers may have different requirements for grounding procedures during maintenance. Therefore, it is essential to always follow the recommendations outlined in the maintenance manual.

In summary, proper compliance with aircraft grounding procedures during maintenance is necessary for maintaining a safe and efficient operation. All personnel involved in the maintenance process should take this requirement seriously and adhere to the procedures outlined in the appropriate manuals.

Below are some examples of different manufacturers' recommendations for aircraft grounding during maintenance. It is essential to follow the appropriate manufacturer's recommendations to ensure proper compliance with aircraft grounding procedures during maintenance.

Safety Conditions

No Safety Condition

Procedure

WARNING

You must connect the bonding cable to the earth (ground) point before you connect it to the helicopter. If you do not obey this instruction you can cause an injury to persons and/or damage to the equipment.

1 Connect the Bonding cable (ZZ-00-00) to an earth (ground) point and to the ground receptacle (12, Figure 1) of the helicopter.

2 Make sure that the external power receptacle door (access door 120AR) is closed. Refer to 39-A-06-41-00-00A-010A-A.

3 Get access to the cockpit.

4 Open these circuit breakers and safety them with the Circuit breaker tag (ZZ-00-00) :
- ENGINE - IGN 1 (1M)
- ENGINE - START 1 (2)
- ENGINE - IGN 2 (4)
- ENGINE - START 2 (3).

Leonardo Helicopter

General Safety Instructions - Electrical Power Supply System

AMM 24-00-00,3-1

References Procedure

A. References

AMM 20-10-00,3-1	Locking - Airframe
AMM 20-10-00,3-4	Electrical Bonding - Airframe

B. Procedure

CAUTION

CIRCUIT BREAKERS WHICH HAVE TRIPPED WILL NOT BE RECLOSED UNTIL PROPER INSPECTION AND REPAIRS HAVE BEEN MADE.

BEFORE YOU START THE WORK ON THE ELECTRICAL SYSTEMS, MAKE SURE THAT :

- ONE OR TWO AIRCRAFT BATTERIES ARE DISCONNECTED.
- THE OPTIONAL GROUND POWER CONNECTOR IS DISCONNECTED.
- THE HELICOPTER IS CORRECTLY GROUNDED.

Airbus