

## **AIR ENVIRONMENT SAFETY**

### **CHECKLIST**

A) Are the major hazards in aircraft maintenance identified in maintenance orders for emphasis in control procedures, indoctrination/pre-exercise/pre-development briefings and safety talks?

- Identify the aircraft type and associated support equipment.
- Relate the major hazards of the geographic location, environment, aircraft type and facilities, including Forward Operating Locations exercises and deployments.

B) Is the risk of accidentally igniting flammable atmospheres effectively controlled?

- Identify specific situations where flammable atmospheres can develop such as fuel system venting, defuelling, refuelling, open fuel cells, etc.
- Verify that systems of electrical bonding and grounding are employed to prevent open discharge of electrical potentials.
- Ensure that extension lights are approved for use in a flammable atmosphere.
- Document how hot work that could cause accidental ignition of flammable atmosphere is controlled.
- Verify that refuelling/defuelling is prohibited by electrical storm proximity.
- Identify procedures and equipment used to prevent the development of a flammable atmosphere.

C) Are personnel fully aware of the sources and circumstances that can produce serious electrical shock?

- Verify personnel are aware of the risk and seriousness of electrical shock.

Visually confirm electrical safety precautions in use:

- Battery disconnects;
- Electrical lockouts;
- Approved extension lights;
- Grounding;
- Bonding;
- Voltage/current markings;
- Insulating mats and disconnects;
- Avoid disconnects under load.

D) Are hazardous materials used in aircraft maintenance included in critical activity planning and control?

Confirm that hazardous material storage, handling, use and disposal practices prevent personnel being exposed:

- Solvents spray/fumes;
- Paint spray dust/fumes;
- Adhesives;
- Fibreglass dust/Methol Ethyl;
- Keytone Peroxide (MEKP);

- Composite fibres;
- Beryllium;
- Washing compounds;
- De-icing fluid;
- Asbestos;
- Fuels.

E) Are the risks of high-pressure fluid and air systems and replenishment procedures closely monitored?

- Question personnel at random on their knowledge of pressure risk identification, circumstances, previous warnings.

Confirm that adequate warnings and precautions are known and used while:

- Storing and handling pressure cylinders;
- Tire inflation;
- Charging hydraulic accumulators/struts;
- Opening connections in pressure systems;
- Avoiding/relieving residual pressure.

F) Are sources of radiation identified and accidental exposure prevented?

- Confirm that warning signs are readily.
- Verify written safety operating procedures and trained safety officers for laser equipment/systems.
- Request written directions and requirements for Non Destructive Testing (NDT) of X-ray equipment.
- Visually confirm records of RF radiation test results in vicinity of radar and radio transmission antennae.
- Confirm FSR warning signs are posted based on field strength measurements.
- Ensure laser warning signs are posted where required.

G) Are there written safe operating procedures for critical maintenance and flight line activities?

- Fuelling, refuelling, defuelling;
- Fuel spills;
- Entry into fuel cells;
- Functional tests;
- Aircraft washing;
- Aircraft jacking;
- De-icing;
- Oxygen replenishment;
- Hot work;
- Aircraft start, marshal, park;
- Electrical lockouts;
- Aircraft maintenance ground runs;
- Hot brakes;
- Emergency response.

- H) Is the safe use of hoists, slings, ladders, platforms, powered doors, lift buckets, docks and scaffolds formally directed and enforced?
- Confirm a system for qualifying and restricting hangar door operation.
  - Examine the safe condition of slings, ladders, maintenance platforms.
  - Are overhead hoists locked out when not in use?
  - Is support equipment safely stored indoors when not in use?
- I) Are quality assurance and maintenance research sections active in hazard identification and accident prevention?
- Question floor/shift supervisors at random and verify QA/MR records/reports.
- J) Are the risks of jet intakes, jet blasts, propwash and propellers permanently posted to warn other personnel?
- Visually confirm that posters are in place.