



## **GUIDANCE MATERIAL:**

# **PLANNING PSSA ACTIVITIES**

### **1 INTRODUCTION**

The purpose of this annex is to provide guidance on how to plan PSSA activities. These recommendations aim at completing the part of the safety plan dealing with PSSA.

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This guidance material outlines the tasks involved in defining the approach to safety within the PSSA itself.

## **A.1 PSSA Objectives and Scope**

- Define the objectives of the Preliminary System Safety Assessment; and how these will contribute to overall safety assessment for the system.
- Define the scope and level of the PSSA. For example:
  - Different levels of PSSA could be conducted, dependent on whether certain functions have already been allocated to particular system elements;
  - A specific PSSA could be conducted to cover the transition between the current and future operations.

## **A.2 PSSA Process**

- Identify the inputs to the PSSA process (drawing on the material gathered under the PSSA Initiation step, as described in Chapter 1).
- Define the methodology to be used for apportioning Safety Objectives into Safety Requirements. This should describe any necessary adaptations of the generic PSSA process for the specific application. For example:
  - Define the approach to be used when apportioning Safety Objectives into Safety Requirements (e.g., whether these are to be absolute or relative);
  - Outline methods used to identify risk mitigation means, drawing on information gathered in the Initiation stage regarding methods which were successful in past PSSA sessions.
  - Outline methods used to apportion Safety Objectives into Safety Requirements (namely: FMEA, Fault-Tree, Event-Tree, Bow-Tie, ...) drawing on information gathered in the Initiation stage regarding methods which were successful in past PSSA sessions.
- Specify the type and attributes of the information to be recorded in the PSSA process.
- Specify the structure of the required output of the PSSA process.

### **A.3 PSSA Evaluation Activities**

- Define the PSSA validation, verification and process assurance activities to be performed (see Chapter 4 for further guidance).
- Identify specific methods to be applied.
- Specify information to be collected.
- Define the procedures to be applied if flaws are detected during any of the evaluation activities.

### **A.4 Roles and Responsibilities**

- Define the roles and responsibilities of the persons, departments and organisations involved in the PSSA process in particular in order to ensure that adequate coordination is performed for Safety Requirements specification (apportionment and allocation) such as:
  - regulatory bodies for ATM, airworthiness and flight operations;
  - ANSPs (including ATCOs);
  - Airlines (including aircrew);
  - Aircraft and aircraft equipment manufacturers;
  - ANSP equipment manufacturers;
  - Any other required bodies (such as Communication Service Providers, ...).
- Specify the required competencies for the persons involved in the PSSA process, and any necessary training requirements.

### **A.5 Schedule and Resource Allocation**

- Define the time schedule and resources required.

### **A.6 Planning for Future Activities**

Define the procedures to be applied when changes are made to Safety Requirements, system architecture, operational environment or system interfaces. Defining adequate lines of communication is particularly important – safety assessors need to be informed of such changes.

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