ISO 10794:2018 (E)

Space systems — Programme management — Material, mechanical parts and processes

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Abbreviated terms

5 General requirements

- 5.1 Materials, Mechanical Parts and Processes Programme (MMPP) management requirement
- 5.1.1 Overview
- 5.1.2 MMPP plan
- 5.1.3 Management
- 5.1.4 Material, Mechanical Parts, Processes Control Board (MPCB)
- 5.2 Management and consolidation of the activities
- 5.2.1 Relationship
- 5.2.2 Establishing and processing of lists
- 5.2.3 Management of the lists
- 5.2.4 Supplier role and responsibilities
- 5.3 Technical constraints
- 5.4 Cleanliness and contamination control
- 5.5 Safety hazardous parts and materials
- 5.6 Optical, mechanical or electrical GSE hardware

6 Material control

- 6.1 Technical criteria for selection of materials
- 6.2 Selection
- 6.3 Declared materials list content
- 6.4 Criticality analysis
- 6.5 Evaluation and validation phases
- 6.5.1 General
- 6.5.2 Evaluation phase
- 6.5.3 Validation phase
- 6.5.4 Approval phase
- 6.5.5 Deviation request
- 6.6 Procurement of materials
- 6.6.1 Procurement specifications
- 6.6.2 Incoming inspection procedure
- 6.7 Use of materials
- 6.7.1 Validation status of materials
- 6.7.2 Traceability of materials
- 6.7.3 Packaging, storage, removal from storage
- 6.7.4 Limited-life materials before implementation
- 6.7.5 Limited-life materials after implementation
- 6.7.6 Materials' non-conformances and alerts
- 6.7.7 Health and safety

7 Mechanical parts control

7.1 Verification of mechanical parts
7.2 Selection
7.3 Declared mechanical parts list
7.4 Criticality analysis
7.5 Evaluation and qualification phases
7.5.1 General
7.5.2 Evaluation phase
7.5.3 Qualification phase
7.5.4 Approval phase
7.5.5 Deviation request
7.6 Procurement of mechanical parts
7.6.1 General
7.6.2 Procurement specification
7.6.3 Source inspection
7.6.4 Incoming inspection procedure
7.7 Use of mechanical parts
7.7.1 Qualification status of mechanical parts
7.7.2 Traceability of mechanical parts
7.7.3 Packaging, storage, removal from storage
7.7.4 Limited-life mechanical parts or parts subject to wearout
7.7.5 Mechanical parts non-conformances and alerts

8 Process control

8.1 Specifications or procedures
8.2 Process selection and training
8.3 Declared processes list content
8.4 Criticality analysis
8.5 Evaluation and verification phase
8.5.1 General
8.5.2 Evaluation phase
8.5.3 Verification phase
8.5.4 Approval phase
8.5.5 Deviation request
8.6 Use of a process
8.6.1 Verification status of a process
8.6.2 Re-verification of a process
8.6.3 Implementation of a process
8.6.4 Traceability of processes
8.6.5 Process non-conformances and alerts
8.6.6 Mandatory inspection points (MIPs)
8.6.7 Packaging, storage, removal from storage

Annex A (informative) Relationship between materials, mechanical parts,processes activities and programme phase

A.1 Feasibility phase — Phase A
A.2 Preliminary definition phase — Phase B
A.3 Detailed definition and production phase — Phase C or D
A.4 Utilization phase — Phase E

Annex B (normative) Declared materials list — Document requirements definition

B.1 DRD identification
B.1.1 Requirement identification and source document
B.1.2 Purposes and objective
B.2 Expected response
B.2.1 Scope and content
B.2.2 Special remarks

Annex C (normative) Declared mechanical parts list — Document requirements definition

C.1 DRD identification
C.1.1 Requirement identification and source document
C.1.2 Purposes and objective
C.2 Excepted response
C.2.1 Scope and content
C.2.2 Special remarks

Annex D (normative) Declared processes list — Document requirements definition

D.1 DRD identification
D.1.1 Requirement identification and source document
D.1.2 Purposes and objective
D.2 Excepted response
D.2.1 Scope and content
D.2.2 Special remarks

Annex E (normative) Request for approval (RFA) — Document requirements definition

E.1 DRD identification
E.1.1 Requirement identification and source document
E.1.2 Purposes and objective
E.2 Expected response
E.2.1 Scope and content
E.2.2 Special remarks

Page count: 46