ISO 23041:2018 (E)

Space systems — Unmanned spacecraft operational procedures — Documentation

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Symbols and abbreviated terms

5 Documentation

5.1 General preparations
5.1.1 General
5.1.2 Arrangement of material
5.1.3 Illustration
5.2 Space operation handbook
5.2.1 General
5.2.2 Overview
5.2.2.1 Front material
5.2.2.2 Requirements for clauses
5.2.3 Space system description (Clause 1 of handbook)
5.2.3.1 General
5.2.3.2 Satellite segment
5.2.3.2.1 General
5.2.3.2.2 Structure subsystem (STR)
5.2.3.2.3 Attitude and orbit control subsystem (AOCS)
5.2.3.2.4 Propulsion subsystem
5.2.3.2.5 Thermal control subsystem (TCS)
5.2.3.2.6 Tracking, telemetry and command subsystem (TTC)
5.2.3.2.7 Power subsystem (PS)
5.2.3.2.8 Payload/mission communication subsystem
5.2.3.2.9 Payload subsystem
5.2.3.2.10 Onboard data handling unit (OBDH)
5.2.3.3 Ground segment
5.2.3.3.1 General
5.2.3.3.2 Electrical power subsystem
5.2.3.3.3 Environmental control subsystem
5.2.3.3.4 Auxiliary equipment
5.2.3.3.5 Communications
5.2.3.4 Pre-launch segment
5.2.3.5 Launch segment
5.2.3.6 Mission life segment
5.2.3.7 Control re-entry segment
5.2.4 Space system operating functions (Clause 2 of handbook)
5.2.4.1 General
5.2.4.2 Operations centre security procedures
5.2.4.3 Changeover procedures
5.2.4.4 Status and fault monitoring
5.2.4.5 Activity coordination procedures
5.2.4.6 Safety procedures
5.2.4.7 Operations centre inspections and system test procedures

5.2.4.8 Communications equipment procedures
5.2.4.9 Ground system procedures
5.2.4.10 Mission planning procedures
5.2.4.11 Mission execution procedures
5.2.4.12 Post-mission procedures
5.2.5 Mission operating procedures (Clause 3 of handbook)
5.2.6 Space segment contingency procedures (Clause 4 of handbook)
5.2.7 Operating limitations (Clause 5 of handbook)
5.2.8 Ground segment emergency procedures (Clause 6 of handbook)
5.2.9 Crew duties and responsibilities (Clause 7 of handbook)
5.2.10 Vocabulary (Clause 8 of handbook)
5.3 Classified material/document
5.4 Abbreviated checklists and step-by-step procedures
5.4.1 Abbreviated checklists
5.4.2 Step-by-step procedures

Annex A (informative) The operational documentation tree and procedure

A.1 General
A.2 Configuration of operational document
A.3 Elements

Annex B (informative) Mission checklist (MCL)

B.1 General
B.2 Configuration of MCL
B.3 Elements

Page count: 25