

ISO 16781:2021 (E)

Space systems — Simulation requirements for control system

Contents

| | |
|-------|--|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms, definitions and abbreviated terms |
| 3.1 | Terms and definitions |
| 3.2 | Abbreviated terms |
| 4 | Control system simulation |
| 4.1 | Simulation system scheme of control system |
| 4.2 | Objectives of control system simulation |
| 4.3 | Mathematical simulation and HITL simulation |
| 4.4 | Simulation in different phases |
| 4.5 | Simulation process |
| 5 | General requirements |
| 5.1 | General |
| 5.2 | Project level requirements |
| 5.3 | Simulation model requirements |
| 5.4 | Simulation facility requirements |
| 5.5 | Simulation operation requirements |
| 5.6 | Simulation result analysis requirements |
| 5.7 | Document requirements |
| 5.7.1 | Design report of simulation system |
| 5.7.2 | Simulation plan |
| 5.7.3 | Simulation report |
| 6 | Requirements of conceptual design phase simulation |
| 6.1 | General |
| 6.2 | Objective |
| 6.3 | Input |
| 6.4 | Output |
| 6.5 | Simulation model requirements |
| 6.6 | Simulation facility requirements |
| 6.7 | Simulation operation requirements |
| 7 | Requirements of detailed design phase simulation |
| 7.1 | General |
| 7.2 | Objective |
| 7.3 | Input |
| 7.4 | Output |
| 7.5 | Simulation model requirements |
| 7.6 | Simulation facility requirements |
| 7.7 | Simulation operation requirements |
| 8 | Requirements of prototype phase simulation |
| 8.1 | General |
| 8.2 | Objective |
| 8.3 | Input |
| 8.4 | Output |

- 8.5 Simulation model requirements
- 8.6 Simulation facility requirements
- 8.6.1 Requirements of simulation devices
- 8.6.2 Requirements of simulation environment
- 8.7 Simulation Operation Requirements
- 9 Requirements of integrated system phase simulation
 - 9.1 General
 - 9.2 Objective
 - 9.3 Input
 - 9.4 Output
 - 9.5 Simulation model requirements
 - 9.6 Simulation facility requirements
 - 9.7 Simulation operation requirements
- Annex A (informative) Phase comparison between ISO 14300-1 and this document

Page count: 22