

1 Database of standards

Document No.	Iss.	Document Title / Description	Standard / Recommendation / Guideline
IADC-02-01	15-Oct-02	IADC Space Debris Mitigation Guidelines For Updates Check: http://www.iadc-online.org/index.cgi?item=docs_pub	5.1 Limit Debris Released during Normal Operations – space systems should be designed not to release debris during normal operations
			5.2.1 Minimise the potential for post mission break-ups resulting from stored energy
			5.2.2 Minimise the potential for break-ups during operational phases
			5.2.3 Avoidance of intentional destruction and other harmful activities
			5.3.1 Geosynchronous Region – Spacecraft that have terminated their mission should be manoeuvred far enough away from GEO so as not to cause interference with space systems still in geostationary orbit. The recommended minimum increase in perigee altitude at the end of re-orbiting, which takes into account all orbital perturbations, is: 235km + (1000·CR·A/m)
			Operators should avoid the long term presence of launch vehicle orbital stages in the geosynchronous region
			5.3.2 Objects Passing Through the LEO Region – Whenever possible space systems that are terminating their operational phases in orbits that pass through the LEO region, or have the potential to interfere with the LEO region, should be de-orbited (direct re-entry is preferred) or where appropriate manoeuvred into an orbit with a reduced lifetime. Retrieval is also a disposal option. ... 25 years to be a reasonable and appropriate lifetime limit
			If a space system is to be disposed of by re-entry into the atmosphere, debris that survives to reach the surface of the Earth should not pose an undue risk to people or property.
			5.3.3 Other Orbits – Space systems that are terminating their operational phases in other orbital regions should be manoeuvred to reduce their orbital lifetime, commensurate with LEO lifetime limitations, or relocated if they cause interference with highly utilised orbit regions.
			5.4 Prevention of On-Orbit Collisions
IADC-04-06	5 Oct 04	"Support to the IADC Space Debris	Supporting document to IADC-02-01 and following the same structure.

Mitigation Guidelines”

[European-CoC](#)

Issue 1
28 Jun 04

European Code of Conduct for Space Debris Mitigation

For Updates Check: BNSC

(Some Design & Operation Measures listed opposite – extracting key elements of measure only, refer to document for details. For Management Measures refer to the document.)

SD-DE-01 Single / multiple payloads launch [For single payload, only one element of launch vehicle should be injected into orbit, excluding the payload; for multiple payloads, at most two elements of launch vehicle should be injected into orbit, excluding payloads.]

SD-DE-02 Retain released parts

SD-DE-03 Suborbital space object [Should not generate long-lived debris.]

SD-DE-04 Intentional destruction [Prohibited.]

SD-DE-05 Accidental destruction (internal origin) [Probability of destruction due to any stored energy element shall be $\leq 10^{-4}$ for the operational phase.]

SD-DE-06 Solid propellant and pyrotechnics use [Avoid generating particles larger than 10 microns.]

SD-DE-07 Materials and technologies section [Materials, their application and design, should not generate space debris during orbital phase.]

SD-DE-08 Passivation [Should be and remain passivated. If not possible, residual pressure should be < 50% critical pressure and remaining propellants should meet following conditions: no explosive reaction; no exothermal dissociation; no leak; design should inhibit pressure build-up).]

SD-DE-11 Safety policy [Re-entry phase of space system should not result in harmful contamination of Earth environment.]

SD-DE-12 Safe re-entry on ground [Casualty risk on-ground should not exceed 10^{-4} per re-entry.]

SD-OP-02 Passivation [Process should be completed within 1 year;

probability of success should be > 0.9.]
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SD-OP-03 Disposal (general) [Maximum of 25 years in protected region after operational phase. Achieve by direct re-entry, limiting orbital lifetime or transferring to disposal orbit.]
SD-OP-04 Disposal of geostationary spacecraft [Should be re-orbited into disposal orbit with minimum perigee above geostationary altitude of $235 + 1000 \times Cr \times S/m$ (km).]
SD-OP-05 Disposal probability success [Should be > 0.9.]
SD-OP-06 Allocated propellant use
SD-OP-07 Nuclear reactor & power sources [Should be compliant with UN resolution.]
SD-OP-08 Re-entry and traffic regulation [Should apply relevant air and maritime traffic regulations.]
1 that as little debris as possible should be released into the GSO region during the placement of a satellite in orbit
2 that every reasonable effort should be made to shorten the lifetime of debris in elliptical transfer orbits with the apogees at or near GSO altitude
3 that before complete exhaustion of its propellant, a geostationary satellite at the end of its life should be removed from the GSO region such that under the influence of perturbing forces on its trajectory, it would subsequently remain in an orbit with a perigee no less than 200 km above the geostationary altitude
Annex 1 – the minimum re-orbit altitude requirement above the GSO altitude: $\Delta H > 235 + 1000 Cr A/M$
Annex 1 – operators are encouraged to monitor the use of on-board propellant to ensure adequate fuel is available to achieve the required manoeuvre ... it is recommended that a fuel margin be added to the budget in order to account for the effect of orbital determination inaccuracies and possible execution errors
Annex 1 – it is recommended that a multiple manoeuvre strategy be followed

ITU-R S.1003-1	1 (01/04)	Environmental protection of the geostationary-satellite orbit (<i>ITU Radiocommunication Assembly Recommendation</i>)

			to raise the orbit perigee
			Annex 1 – once the minimum perigee altitude has been reached, a multiple manoeuvre strategy should continue to be followed, progressively raising the orbit perigee, using to the greatest extent possible all remaining propellants and, if feasible, pressurants
			Annex 1 – all further stored energy sources on board should be passivated (e.g. batteries, gyros) to avoid the possibility of fragmentation
A/AC.105/C.1/L.2 84	Draft 28 Feb 06	Revised draft space debris mitigation guidelines of the Scientific and Technical Subcommittee of the Committee on the Peaceful Uses of Outer Space	Guideline 1: Limit debris released during normal operations
			Guideline 2: Minimize the potential for break-ups during operational phases
			Guideline 3: Limit the probability of accidental collision in orbit
			Guideline 4: Avoid intentional destruction and other harmful activities
			Guideline 5: Minimize potential for post-mission break-ups resulting from stored energy
			Guideline 6: Limit the long-term presence of spacecraft and launch vehicle orbital stages in the low-Earth orbit (LEO) region after the end of their mission
			Guideline 7: Limit the long-term interference of spacecraft and launch vehicle orbital stages with the geosynchronous Earth orbit (GEO) region after the end of their mission

ISO 14620-1:2002		Space systems -- Safety requirements -- Part 1: System safety	
ISO 14620-2:2000		Space systems -- Safety requirements -- Part 2: Launch site operations	
ISO 14620-3:2005		Space systems -- Safety requirements -- Part 3: Flight safety systems	
ISO 17666:2003		Space systems -- Risk management	
ISO/AWI 23339		Space systems -- Unmanned spacecraft residual propellant mass estimation for disposal manoeuvres	
ISO/AWI 24113		Space systems -- Orbital debris -- Routes to compliance and management for debris mitigation	
ISO/AWI 26872		Space systems -- Disposal of satellites operating at geosynchronous altitude	
ISO/AWI 26885		Space systems -- Process for orbital information exchange	
ISO/WD 27852		Space systems -- Orbit lifetime estimation	
ISO/AWI 27875		Space systems -- Re-entry safety control for unmanned spacecraft and launch vehicle orbital stages	
ECSS Q30-02A	07/09/01	Failure Modes, Effects, And Criticality Analysis	
ECSS Q40-02A	14/02/03	Hazard Analysis	
ECSS Q40B	17/05/02	Safety	
ECSS Q70B	14/12/04	Materials, Mechanical Parts And Processes	
ECSS E10 PART 6A	31/10/05	System Engineering - Functional And Technical Specifications	
ECSS E20A	04/10/99	Electric And Electronic	

ECSS E30 PART 1A	25/04/00	Mechanical Part 1 – Thermal Control	4.3.5 The thermal control system shall specify the necessary telemetry channels to monitor spacecraft temperatures, TCS temperatures, pressures, flow rates, voltages, currents, switch status
			4.5.1 Conformance of a thermal design to all of its requirements shall be demonstrated by satisfactory completion of a verification programme
			4.5.7 For TCS items controlled by radiative and conductive heat exchange, a thermal balance test shall be performed
			A1.1 The thermal control system detailed design with detailed overall thermal mathematical model typical uncertainty after thermal balance test and correlation should be +/- 5K
ECSS E30 PART 2A	25/04/00	Mechanical Part 2 – Structural	4.2.7 Micrometeoroid and debris collision a. Pressurised structures, tanks, battery cells, pipes, electronic boxes, and other identified equipment shall be protected from micrometeoroid and debris impact in order to prevent the risk of catastrophic failures
			4.2.7 Micrometeoroid and debris collision b. The selection and design of material and debris protection systems shall be based on a defined probability of survival. The probability of survival is influenced by the following: - probability of impact; - critical debris size; - material response to hypervelocity impacts; - impact face; - back face (spalling); - mission duration; - spacecraft orientation; - multiple impacts
			4.2.8a Provision shall be made in the design of the structure for venting in order to avoid a build up of excess pressure and to reduce the time necessary to evacuate the structure
			4.7.27 Sinusoidal vibration tests shall be performed. Random vibration tests shall be performed.
ECSS E30 PART 5.1A	02/04/02	Mechanical Part 5.1 – Propulsion	4.2.2 Risk (eg contamination and leakage) shall be analysed and covered. Reliability Availability Maintenance & Safety (RAMS) studies shall be performed

			4.2.6 Materials shall be selected according to ECSS Q 70 and ECSS E30 part 8
			4.2.7 The Maximum Expected Operating Pressure (MEOP) multiplied by the Factor of Safety shall not be more than the maximum design pressure
			5.5.7 In the case of hydrazine or other monopropellants, rapid compression of vapours, hot spots, or undesired contact with a catalyst material shall be avoided
			5.5.7 Propellant explosions and leakage of propellant and propellant vapours shall be prevented
			5.5.17 As a minimum, the pressure and the temperature of tanks, valve status and operating branch pressure shall be available through telemetry. Thrusters shall at least be equipped with thermocouples or thermistors
			5.6.3.1 The conformity of the thruster behaviour to thruster requirements shall be verified by test
			Table 2 component failure modes
ECSS E30 PART 6A	25/04/00	Mechanical Part 6 - Pyrotechnics	
ECSS E30 PART 7A	25/04/00	Mechanical Part 7 - Mechanical Parts	
ECSS E30 PART 8A	25/04/00	Mechanical Part 8 - Materials	
ECSS E30-01A	13/04/99	Fracture Control	
ECSS E70		Ground Systems And Operations	

ISO 11103:1991		Space data and information transfer systems -- Radio metric and orbit data	
ISO 11104:2003		Space data and information transfer systems -- Time code formats	
ISO 11754:2003		Space data and information transfer systems -- Telemetry channel coding	
ISO 12171:2002		Space data and information transfer systems -- Telecommand -- Channel service	
ISO 12172:2003		Space data and information transfer systems -- Telecommand -- Data routing service	
ISO 12173:2003		Space data and information transfer systems -- Telecommand -- Command operation procedures	
ISO 12174:2003		Space data and information transfer systems -- Telecommand -- Architectural specification for the data management service	
ISO 12175:1994		Space data and information transfer systems -- Standard formatted data units -- Structure and construction rules	
ISO 13419:2003		Space data and information transfer systems -- Packet telemetry	
ISO 13420:1997		Space data and information transfer systems -- Advanced orbiting systems -- Networks and data links -- Architectural specification	
ISO 13764:1996		Space data and information transfer systems -- Standard formatted data units -- Control authority procedures	
ISO 14300-1:2001		Space systems -- Programme management -- Part 1: Structuring of a programme	
ISO 14300-2:2002		Space systems -- Programme management -- Part 2: Product assurance	

ISO 14302:2002		Space systems – Electromagnetic compatibility requirements	
ISO 14303:2002		Space systems – Launch-vehicle-to-spacecraft interfaces	
ISO 14619:2003		Space systems – Space experiments – General requirements	
ISO 14620-1:2002		Space systems – Safety requirements – Part 1: System safety	
ISO 14620-2:2000		Space systems – Safety requirements – Part 2: Launch site operations	
ISO 14620-3:2005		Space systems – Safety requirements – Part 3: Flight safety systems	
ISO 14621-1:2003		Space systems – Electrical, electronic and electromechanical (EEE) parts – Part 1: Parts management	
ISO 14621-2:2003		Space systems – Electrical, electronic and electromechanical (EEE) parts – Part 2: Control programme requirements	
ISO 14622:2000		Space systems – Structural design – Loads and induced environment	
ISO 14623:2003		Space systems – Pressure vessels and pressurized structures – Design and operation	
ISO 14624-1:2003		Space systems – Safety and compatibility of materials – Part 1: Determination of upward flammability of materials	
ISO 14624-2:2003		Space systems – Safety and compatibility of materials – Part 2: Determination of flammability of electrical-wire insulation and accessory materials	
ISO 14624-3:2005		Space systems – Safety and compatibility of materials – Part 3: Determination of offgassed products from materials and assembled articles	
ISO 14624-4:2003		Space systems – Safety and compatibility of materials – Part 4: Determination of upward flammability of materials in pressurized gaseous oxygen or oxygen-enriched environments	

ISO 14624-5:2006		Space systems – Safety and compatibility of materials – Part 5: Determination of reactivity of system/component materials with aerospace propellants	
ISO 14624-6:2006		Space systems – Safety and compatibility of materials – Part 6: Determination of reactivity of processing materials with aerospace fluids	
ISO 14624-7:2006		Space systems – Safety and compatibility of materials – Part 7: Determination of permeability and penetration of materials to aerospace fluids	
ISO 14625:1999		Space systems – Ground support equipment for use at launch, landing, or retrieval sites–General requirements	
ISO 14711:2003		Space systems – Unmanned mission operations concepts – Guidelines for defining and assessing concept products	
ISO 14721:2003		Space data and information transfer systems – Open archival information system – Reference model	
ISO 14950:2004		Space systems – Unmanned spacecraft operability	
ISO 14951-1:1999		Space systems – Fluid characteristics – Part 1: Oxygen	
ISO 14951-2:1999		Space systems – Fluid characteristics – Part 2: Hydrogen propellant	
ISO 14951-3:1999		Space systems – Fluid characteristics – Part 3: Nitrogen	
ISO 14951-3:1999/Cor 1:2000			
ISO 14951-4:1999		Space systems – Fluid characteristics – Part 4: Helium	
ISO 14951-4:1999/Cor 1:2000			
ISO 14951-5:1999		Space systems – Fluid characteristics – Part 5: Nitrogen tetroxide propellant	
ISO 14951-			

5:1999/Cor 1:2004			
ISO 14951-6:1999		Space systems – Fluid characteristics – Part 6: Monomethylhydrazine propellant	
ISO 14951-6:1999/Cor 1:2004			
ISO 14951-7:1999		Space systems – Fluid characteristics – Part 7: Hydrazine propellant	
ISO 14951-7:1999/Cor 1:2004			
ISO 14951-8:1999		Space systems – Fluid characteristics – Part 8: Kerosene propellant	
ISO 14951-9:1999		Space systems – Fluid characteristics – Part 9: Argon	
ISO 14951-9:1999/Cor 1:2000			
ISO 14951-10:1999		Space systems – Fluid characteristics – Part 10: Water	
ISO 14951-11:1999		Space systems – Fluid characteristics – Part 11: Ammonia	
ISO 14951-12:1999		Space systems – Fluid characteristics – Part 12: Carbon dioxide	
ISO 14951-13:1999		Space systems – Fluid characteristics – Part 13: Breathing air	
ISO 14952-1:2003		Space systems – Surface cleanliness of fluid systems – Part 1: Vocabulary	
ISO 14952-2:2003		Space systems – Surface cleanliness of fluid systems – Part 2: Cleanliness levels	
ISO 14952-3:2003		Space systems – Surface cleanliness of fluid systems – Part 3: Analytical procedures for the determination of non-volatile residues and particulate contamination	

ISO 14952-4:2003		Space systems – Surface cleanliness of fluid systems – Part 4: Rough-cleaning processes	
ISO 14952-5:2003		Space systems – Surface cleanliness of fluid systems – Part 5: Drying processes	
ISO 14952-6:2003		Space systems – Surface cleanliness of fluid systems – Part 6: Precision-cleaning processes	
ISO 14953:2000		Space systems – Structural design – Determination of loading levels for static qualification testing of launch vehicles	
ISO 14954:2005		Space systems – Dynamic and static analysis – Exchange of mathematical models	
ISO 14961:2002		Space data and information transfer systems – Parameter value language specification	
ISO 14962:1997		Space data and information transfer systems – ASCII encoded English	
ISO 15387:2005		Space systems – Single-junction solar cells – Measurements and calibration procedures	
ISO 15388:2004		Space systems – Contamination and cleanliness control	
ISO 15389:2001		Space systems – Flight-to-ground umbilicals	
ISO 15389:2001/Amd 1:2005		Prevention of accidental cross-connection	
ISO 15389:2001/Cor 1:2006			
ISO 15390:2004		Space environment (natural and	

		artificial) – Galactic cosmic ray model	
ISO 15395:1998		Space data and information transfer systems – Standard formatted data units – Control authority data structures	

ISO 15396:1998		Space data and information transfer systems – Cross support reference model – Space link extension services	
ISO 15859-1:2004		Space systems – Fluid characteristics, sampling and test methods – Part 1: Oxygen	
ISO 15859-2:2004		Space systems – Fluid characteristics, sampling and test methods – Part 2: Hydrogen	
ISO 15859-3:2004		Space systems – Fluid characteristics, sampling and test methods – Part 3: Nitrogen	
ISO 15859-4:2004		Space systems – Fluid characteristics, sampling and test methods – Part 4: Helium	
ISO 15859-5:2004		Space systems – Fluid characteristics, sampling and test methods – Part 5: Nitrogen tetroxide propellants	
ISO 15859-6:2004		Space systems – Fluid characteristics, sampling and test methods – Part 6: Monomethylhydrazine propellant	
ISO 15859-7:2004		Space systems – Fluid characteristics, sampling and test methods – Part 7: Hydrazine propellant	
ISO 15859-8:2004		Space systems – Fluid characteristics, sampling and test methods – Part 8: Kerosine propellant	
ISO 15859-9:2004		Space systems – Fluid characteristics, sampling and test methods – Part 9: Argon	
ISO 15859-10:2004		Space systems – Fluid characteristics, sampling and test methods – Part 10: Water	
ISO 15859-11:2004		Space systems – Fluid characteristics, sampling and test methods – Part 11:	

		Ammonia	
ISO 15859-12:2004		Space systems – Fluid characteristics, sampling and test methods – Part 12: Carbon dioxide	
ISO 15859-13:2004		Space systems – Fluid characteristics, sampling and test methods – Part 13: Breathing air	
ISO 15860:2006		Space systems – Gas contamination – Measurement methods for field tests	
ISO 15863:2003		Space systems – Spacecraft-to-launch-vehicle interface control document	
ISO 15864:2004		Space systems – General test methods for space craft, subsystems and units	
ISO 15865:2005		Space systems – Qualification assessment	
ISO 15887:2000		Space data and information transfer systems – Data systems – Lossless data compression	
ISO 15888:2000		Space data and information transfer systems – Standard formatted data units – Referencing environment	
ISO 15889:2003		Space data and information transfer systems – Data description language – EAST specification	
ISO 15891:2000		Space data and information transfer systems – Protocol specification for space communications – Network protocol	
ISO 15892:2000		Space data and information transfer systems – Protocol specification for space communications – Security protocol	

ISO 15893:2000		Space data and information transfer systems – Protocol specification for space communications – Transport protocol	
ISO 15894:2000		Space data and information transfer systems – Protocol specification for space communications – File protocol	
ISO 16091:2002		Space systems – Integrated logistic support	
ISO 16458:2004		Space systems – Unmanned spacecraft transportation – General requirements	
ISO 17355:2004		Space data and information transfer systems – CCSDS file delivery protocol	
ISO 17399:2003		Space systems – Man-systems integration	
ISO/TR 17400:2003		Space systems – Space launch complexes, integration sites and other facilities – General testing guidelines	
ISO 17401:2004		Space systems – Spacecraft interface requirements document for launch vehicle services	
ISO 17433:2003		Space data and information transfer systems – Packet telemetry services	
ISO 20652:2006		Space data and information transfer systems – Producer-archive interface – Methodology abstract standard	
ISO 21347:2005		Space systems – Fracture and damage control	
ISO 21351:2005		Space systems – Functional and technical specifications	
ISO 21459:2006		Space data and information transfer systems – Proximity-1 space link protocol – Coding and synchronization sublayer	

ISO 21460:2006		Space data and information transfer systems – Proximity-1 space link protocol – Physical layer	
ISO 21961:2003		Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – Abstract syntax	
ISO 21962:2003		Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – PVL syntax	
ISO 22641:2005		Space data and information transfer systems – TM (telemetry) synchronization and channel coding	

ISO 22642:2005		Space data and information transfer systems – TC (telecommand) synchronization and channel coding	
ISO 22643:2003		Space data and information transfer systems – Data entity dictionary specification language (DEDSL) – XML/DTD Syntax	
ISO 22644:2006		Space data and information transfer systems – Orbit data messages	
ISO 22645:2005		Space data and information transfer systems – TM (telemetry) space data link protocol	
ISO 22646:2005		Space data and information transfer systems – Space packet protocol	
ISO 22647:2006		Space data and information transfer systems – Space link identifiers	
ISO 22663:2006		Space data and information transfer systems – Proximity-1 space link protocol – Data link layer	
ISO 22664:2005		Space data and information transfer systems – TC (telecommand) space data link protocol	
ISO 22666:2005		Space data and information transfer systems – AOS (advanced orbiting systems) space data link protocol	

ISO 22667:2005		Space data and information transfer systems – Communication operations Procedure-1	
ISO 22669:2003		Space data and information transfer systems – Space link extension (SLE) – Return-all-frames service	
ISO 22670:2006		Space data and information transfer systems – Space link extension (SLE) – Return-channel-frames service	
ISO 22671:2005		Space data and information transfer systems – Space link extension (SLE) – Forward command link transmission unit (CLTU)	

ISO 22672:2006		Space data and information transfer systems – Space link extension (SLE) – Forward space packet service	
ISO 23038:2006		Space systems – Space solar cells – Electron and proton irradiation test methods	
ISO/NP 14300-1		Space systems – Programme management – Part 1: Structuring of a programme	
ISO/DIS 14625		Space systems – Ground support equipment for use at launch, landing, or retrieval sites – General requirements	
ISO/DIS 15396		Space data and information transfer systems – Cross support reference model – Space link extension services	
ISO/CD 15862		Space systems – Space flight environment – Verification	
ISO/DIS 16454		Space systems – Structural design – Stress analysis requirements	
ISO/DIS 17355		Space data and information transfer systems – CCSDS file delivery protocol	
ISO/CD 17566		Space systems – General test documentation	
ISO/DIS 19933		Space systems – Format for spacecraft launch environment test report	
ISO/PRF 21348		Space environment (natural and artificial) – Process for determining solar irradiances	
ISO/PRF 21349		Space systems – Project reviews	
ISO/DIS 21350		Space systems – Off-the-shelf item utilization	

ISO/AWI 21460		Space data and information transfer systems – Proximity-1 space link protocol – Physical layer	
ISO/DIS 22010		Space systems -- Mass properties control	
ISO/WD 22663		Space data and information transfer systems -- Proximity-1 space link protocol -- Data link layer	
ISO/DIS 22666		Space data and information transfer systems -- AOS (advanced orbiting systems) space data link protocol	
ISO/PRF 22669		Space data and information transfer systems -- Space link extension (SLE) -- Return-all-frames service	
ISO/PRF 22671		Space data and information transfer systems -- Space link extension (SLE) -- Forward communications link transmission unit (CLTU) service	
ISO/PRF 23041		Space systems -- Unmanned spacecraft operational procedures -- Documentation	
ISO/AWI 23460		Programme management- dependability assurance requirements	
ISO/AWI 23461		Programme management -- Non conformance control system	
ISO/AWI 23462		Programme management -- Management specification and plan	
ISO/AWI 24637		Space systems -- Electromagnetic interference (EMI) test reporting requirements	
ISO/AWI 24638		Space systems -- Pressure components and pressure system integration	
ISO/WD 24917		Space systems -- General test requirements for launch vehicles	

ISO/PRF 26143		Space data and information transfer systems -- Space link extension (SLE) -- Return operational control fields service
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ISO/DIS 26868		Space data and information transfer systems -- Image data compression	
ISO/AWI 26869		Space systems -- Small auxiliary spacecraft (SASC) to launch vehicle interface control document	
ISO/AWI 26870		Space systems -- Launch pad integration site operational documents	
ISO/AWI 26871		Space systems -- Pyrotechnics	
ISO/AWI 27025		Space systems -- Programme management -- Quality assurance requirements	
ISO/AWI 27026		Space systems -- Programme management -- Project breakdown structures	
ISO 11227		Test procedures for HV1 material ejecta	
ISO 11233		Orbit determination and estimation	
ISO 14222		Atmosphere density models	
ISO 14200		Process based meteoroid/debris environment models	
ISO N608		Collision avoidance	
ISO N615		Disposal of spacecraft in LEO	
ISO N617		Spacecraft passivation	
ISO N619		Survivability against meteoroid/debris impact	
ECSS E ST 10 - 04C		Space environment	
ECSS E ST 33 - 11		Space engineering - Explosive systems and devices	
ECSS Q ST 40C		Safety	