

Product Assurance

List of ESA PSS Documents and their Replacements

Status as of: 26 February 2009

PSS documents have generally been phased out and replaced by the ECSS series. Where the ESCC Specifications have not been fully updated and refer to PSS documents it is recommended to apply the current issue of the ECSS or the ECSS document that has superseded the PSS document referenced.

[For latest information about ECSS Standards please see the ECSS Website \(http://www.ecss.nl\)](http://www.ecss.nl)

Product assurance		
PSS-01-0	Basic Requirements of Product Assurance of ESA Spacecraft and Associated Equipment	Superseded by ECSS-S-ST-00 and ESCC-Q-ST-10
PSS-01-10	Product Assurance Management and Audit Systems for ESA Spacecraft and Associated Equipment, Issue 1, May 1981	Superseded by ECSS-Q-ST-10 And ESCC-Q-ST-20
PSS-01-11	Configuration Management and Control for ESA Space Systems, Issue 1, March 1989	Superseded by ECSS-M-ST-40
PSS-01-20	Quality Assurance Requirements for ESA Space Systems, Issue 2, February 1991	Superseded by ECSS-Q-ST-20
PSS-01-21	Software Product Assurance Requirements for ESA Space Systems, Issue 2, April 1991	Superseded by ECSS-Q-ST-80
PSS-01-30	Reliability Assurance Requirements for ESA Space Systems, Issue 2, March 1992	Superseded by ECSS-Q-ST-30

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PSS-01-40	System Safety Requirements for ESA Space Systems and Associated Equipment, Issue 2, September 1988	Superseded by ECSS-Q-ST-40
PSS-01-50	Maintainability Requirements for ESA Space Systems, Issue 1, November 1991	Superseded by ECSS-Q-ST-30
PSS-01-60	Component Selection Procurement and Control for ESA Space Systems, Issue 2, November 1988	Superseded by ECSS-Q-ST-60
PSS-01-70	Materials and Process Selection and Quality Control for ESA Space Systems and Associated Equipment, Issue 4, January 1994	Superseded by ECSS-Q-ST-70
PSS-01-101	Software Quality Assurance Plans, Issue 1, February 1983	
PSS-01-201	Contamination and Cleanliness Control, Issue 1, August 1983	Superseded by ECSS-Q-ST-70-01
PSS-01-202	Preservation, Storage, Handling and Transportation of ESA Spacecraft Hardware, Issue 1, June 1983	
PSS-01-203	Quality Assurance of Test Houses for ESA Spacecraft and Associated Equipment, Issue 1, August 1983	Superseded by ECSS-Q-20-07
PSS-01-204	Particulate Contamination Control in Clean Rooms by Particle Fall-Out (PFO) Measurements, Issue 1, September 1984	Superseded by ECSS-Q-ST-70-50
PSS-01-301	Derating Requirements Applicable to Electronic, Electrical and Electro-Mechanical Components for ESA Space Systems, Issue 2, April 1992	Derating requirements: Superseded by ECSS-Q-30-ST-11 End-of-life parameter drifts: Superseded by ECSS-Q-60-11 (until Q-30-12 published)
PSS-01-401	ESA Fracture Control Requirements, Issue 2, November 1994	Superseded by ECSS-E-30-ST-01
PSS-01-411	Sneak Analysis Methods and Procedures for ESA Space Programmes, Issue 1, January 1994	Superseded by ECSS-Q-40-04 Part 1 and Part 2
PSS-01-603	Preferred Parts List, Issue 3, September 1995	Superseded by ESCC 12300
PSS-01-604	Generic Specification for Silicon Solar Cells, Issue 1, September 1988	

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PSS-01-605	Capability Approval Programme for Hermetic Thin-Film Hybrid Microcircuits, Issue 1, May 1990	
PSS-01-606	The Capability Approval Programme for Hermetic Thick-Film Hybrid Microcircuits, Issue 1, July 1986	
PSS-01-607	Checklist for Thick-Film Hybrid Microcircuits Manufacturer and Line Survey, Issue 1, November 1990	
PSS-01-608	Generic Specification for Hybrid Microcircuits, Issue 2, April 1987	
PSS-01-609	The Radiation Design Handbook, Issue 1, May 1993	
PSS-01-610	Design Guidelines for Capability of Film Hybrid Microcircuits and Microwave Hybrid Integrated Circuits (MHICs), Issue 1, November 1991	
PSS-01-611	Checklist for Thin-Film Hybrid Microcircuits Manufacturer and Line Survey, Issue 1, November 1990	
PSS-01-612	Capability Approval Programme for Microwave Hybrid Integrated Circuits (MHICs) Issue 1 November 1990	
PSS-01-700	The Technical Reporting and Approval Procedure for Materials and Processes, Issue 2, August 1993	Superseded by ECSS-Q-ST-70B
PSS-01-701	Data for Selection of Space Materials Rev.3, 15 March 1994	Superseded by ECSS-Q-70-71
PSS-01-702	A Thermal Vacuum Test for the Screening of Space Materials, Issue 2, October 1994	Superseded by ECSS-Q-ST-70-02
PSS-01-703	The Black-Anodising of Aluminium with Inorganic Dyes, Issue 1, October 1982	Superseded by ECSS-Q-ST-70-03
PSS-01-704	A Thermal Cycling Test for the Screening of Space Materials and Processes, Issue 1, August 1992	Superseded by ECSS-Q-ST-70-04
PSS-01-705	The Detection of Organic Contamination of Surfaces by Infrared Spectroscopy, Issue 1, October 1982	Superseded by ECSS-Q-ST-70-05
PSS-01-706	The Particle and Ultraviolet (UV) Radiation Testing of Space Materials	Superseded by ECSS-Q-ST-70-06

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PSS-01-707	The Evaluation and Approval of Automatic Machine Wave Soldering for ESA Spacecraft Hardware, Issue 1, Feb 1984	Superseded by ECSS-Q-70-07
PSS-01-708	The Manual Soldering of High-Reliability Electrical Connections, Issue 1, Mar 1985	Superseded by ECSS-Q-ST-70-08
PSS-01-709	Measurements of Thermo-Optical Properties of Thermal Control Materials, Issue 1, July 1984	Superseded by ECSS-Q-ST-70-09
PSS-01-710	The Qualification and Procurement of Two-Sided Printed-Circuit Boards (Fused Tin-Lead or Gold-Plated Finish), Issue 1, October 1985	Superseded by ECSS-Q-ST-70-10 and ECSS-Q-ST-70-11
PSS-01-711	Product Assurance Requirements for Micro VCM-Apparatus and Associated Equipment Issue 1 October 1982	Cancelled (now covered by ECSS-Q-ST-70-02)
PSS-01-712	The Oil Impregnation of Phenolic- Resin-Based Materials Used in the Fabrication of Ball-Bearing Cages, Issue 1, Aug.1983	Cancelled
PSS-01-713	Measurement of the Peel and Pull-Off Strength of Coatings and Finishes with Pressure-Sensitive Tapes, Issue 1, Oct. 1982	Superseded by ECSS-Q-ST-70-13
PSS-01-716	The Listing and Approval Procedure for Materials and Processes	(Replaced by PSS-01-700) ECSS-Q-ST-70
PSS-01-718	The Preparation, Assembly and Mounting of RF Coaxial Cables, Issue 1, Oct. 1987	Superseded by ECSS-Q-ST-70-18
PSS-01-720	Determination of the Susceptibility of Silver-Plated Copper Wire/Cable to 'Red Plague' Corrosion, Issue 1, July 1985	Superseded by ECSS-Q-ST-70-20
PSS-10-721	Flammability Testing for the Screening of Space Materials, Issue 2, April 1992	Superseded by ECSS-Q-ST-70-21
PSS-01-722	The Control of Limited-Life Materials, Issue 2, December 1990	Superseded by ECSS-Q-ST-70-22
PSS-01-725	The Application of the Black Paint Chemglaze Z306, issue 1, Dec. 1982	Superseded by ESCC- Q-ST-70-31
PSS-01-726	The Crimping of High-Reliability Electrical Connections, Issue 2, December 1990	Superseded by ECSS-Q-ST-70-26
PSS-01-727	The Cleaning of Eccosorb AN Foam, Issue 1, October 1982	Cancelled

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PSS-01-728	The Repair and Modification of Printed-Circuit Board Assemblies for Space Use, Issue 2, March 1991	Superseded by ECSS-Q-ST-70-28
PSS-01-729	The Determination of Off-Gassing Products From Materials and Assembled Articles to be Used in a Manned Space Vehicle Crew Compartment, Issue 1, February 1989	Superseded by ECSS-Q-ST-70-29
PSS-01-730	The Wire Wrapping of High-Reliability Electrical Connections, Issue 1, Mar 1991	Superseded by ECSS-Q-ST-70-30
PSS-01-732	The Cleaning of GUDE-SPACE D96 Tape, Issue 1, December 1982	Cancelled
PSS-01-733	The Application of the Thermal-Control Paint Pyrolac PSG 120 FD, Issue 1, Oct. 1982	Superseded by ECSS-Q-ST-70-31
PSS-01-734	The Application of the Black Electrically Conductive Coating Chemglaze H322, Issue 1, February 1983	Superseded by ECSS-Q-70-34
PSS-01-735	The Application of the Black Electrically Conductive Coating Chemglaze L300, Issue 1, December 1982	Superseded by ECSS-Q-ST-70-31
PSS-01-736	Material Selection for Controlling Stress Corrosion Cracking, Issue 1, May 1981	Superseded by ECSS-Q-ST-70-36
PSS-01-737	Determination of the Susceptibility of Metals to Stress Corrosion Cracking, Issue 1, September 1981	Superseded by ECSS-Q-ST-70-37
PSS-01-738	High-Reliability Soldering for Surface Mount and Mixed-Technology Printed-Circuit Boards, Issue 1, March 1991	Superseded by ECSS-Q-ST-70-38
PSS-01-745	Standard Fracture Mechanics Fatigue and Related Test Methods for ESA Space Systems, Issue 1, May 1993	Superseded by ECSS-Q-ST-70-45
PSS-01-746	General Requirements For Threaded-Fasteners, Issue 1, June 1993	Superseded by ECSS-Q-ST-70-46
PSS-01-748	Requirements for ESA-Approved Skills Training and Certification (Electronic Assembly Techniques), Issue 1, Mar 1992	Cancelled