

Standards Quarterly

Standards Highlights

- The next plenary meeting of ISO/TC 20/SC 14 (Space Systems and Operations) will be held on 11-15 June 2018 in Helsinki, Finland.
- The next meeting of ISO/TC 20/SC 16 is tentatively scheduled for June 2018 in the US.
- The next meeting of ISO/TC 20/SC 17 (Airport Infrastructure) is scheduled as a teleconference on 28 February 2018.

If you would like to participate on any of the US Technical Advisory Groups (TAGs) related to these activities, please contact Hillary Woehrle hillaryw@aiaa.org.

Documents Published in 2017

- ANSI/AIAA G-095A-2017, Guide for Safety of Hydrogen and Hydrogen Systems
- AIAA S-121A-2017, Electromagnetic Compatibility Requirements for Space Equipment and Systems

Documents Reaffirmed in 2017

- ANSI/AIAA S-115-2013, LEO Spacecraft Charging Design Standard and Handbook
- ANSI/AIAA S-123-2007, Adaptions and Conversions of CCSDS Space Link Extension Forward Communications Link Transmission Unit Transfer Service
- ANSI/AIAA S-124-2007, Adaptions and Conversions of CCSDS Space Link Extension Return All Frames Transfer Service
- AIAA G-129-2012(2017), Guide: Nomenclature and Axis Systems for Aerodynamic Wind Tunnel Testing

Ongoing Work

The following Standards are under revision or development:

- ANSI/AIAA G-043B-201x, Guide for the Preparation of Operational Concept Documents
- AIAA S-071B-201x, Assessment of Experimental Uncertainty With Application to Wind Tunnel Testing (will be combined with AIAA G-045-Supplement)
- AIAA G-077A-201x, Guide for the Verification and Validation of CFD Simulations
- ANSI/AIAA S-080A-201X, Metallic Pressure Vessels, Pressurized Structures, and Pressure Components

- ANSI/AIAA S-081B-201x, Standard for Space Systems: Composite Overwrapped Pressure Vessels (COPVs)
- AIAA S-089-201x, Composite Pressurized Structures
- ANSI/AIAA S-102-1-4-2009, Performance-Based Failure Reporting, Analysis & Corrective Action Systems (FRACAS) Requirements
- ANSI/AIAA S-102-1-5-2009, Performance Based Failure Board Requirements
- ANSI/AIAA S-102-2-2-2009, System Reliability Modeling Requirements
- ANSI/AIAA S-102-2-11-2009, Anomaly, Detection, and Response Analysis
- ANSI/AIAA S-102-2-18-2009, Performance-Based Fault Tree Analysis Requirements
- AIAA S-111-2014, Qualification and Quality Requirements for Space Solar Cells
- AIAA S-112-2013, Qualification and Quality Requirements for Electrical Components on Space Solar Panels
- AIAA S-114A-201x, Moving Mechanical Assemblies for Space and Launch Vehicles
- AIAA S-136-201x, Battery Safety Standard for Space Applications
- ANSI/AIAA S-141-201x, Code Verification in Computational Fluid Dynamics
- ANSI/AIAA S-144-201x, Large Prismatic Li-ion Space Cell
- AIAA R-146-201x, Dual Flow Reference Nozzles for Verification of Sub-Scale Thrust and Airflow Test Rigs: Dual Separate Flow Reference (DSFR) and Dual Mixed Flow Reference (DMFR)
- AIAA S-147-201x, Ground Test - Dynamic shake/ rap testing

If you would like to participate on any of the committees developing these documents, please send an email to Hillary Woehrle at hillaryw@aiaa.org to obtain an application form.