WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ISO/TC 20/SC 16, Unmanned	ISO/CD 21384-1, Unmanned aircraft systems - Part 1:		(New) In	
WG1	Airworthiness		Aircraft Systems	General specification		Development	Yes
			ASTM F15.22, Consumer	ASTM F963-17, Standard Consumer Safety Specification			
WG1	Airworthiness	Design and Construction	Products - Toy Safety	for Toy Safety	2017	Published	No
			ASTM F37.20, Light Sport	ASTM F2245 - 16c, Standard Specification for Design and			
WG1	Airworthiness	Design and Construction	Aircraft - Airplane	Performance of a Light Sport Airplane	2016	Published	No
			ASTM F37.70, Light Sport	ASTM F2563-16, Standard Practice for Kit Assembly			
WG1	Airworthiness	Design and Construction	Aircraft - Cross Cutting	Instructions of Aircraft Intended Primarily for Recreation	2016	Published	No
			ASTM F37.70, Light Sport	ASTM F2930-16e1, Standard Guide for Compliance with			
WG1	Airworthiness	Design and Construction	Aircraft - Cross Cutting	Light Sport Aircraft Standards	2016	Published	No
			ASTM F38.01, Unmanned				
			Aircraft Systems (UAS) -	ASTM F2910-14 Standard Specification for Design and			
WG1	Airworthiness	Design and Construction	Airworthiness	Construction of a Small Unmanned Aircraft System (sUAS)	2014	Published	Yes
			ASTM F38.01, Unmanned				
			Aircraft Systems (UAS) -	ASTM F2911-14e1 Standard Practice for Production			
WG1	Airworthiness	Design and Construction	Airworthiness	Acceptance of Small Unmanned Aircraft System (sUAS)	2014	Published	Yes
			ASTM F38.01, Unmanned	ASTM F3298-18, Standard Specification for Design,			
			Aircraft Systems (UAS) -	Construction, and Verification of Fixed-Wing Unmanned			
WG1	Airworthiness	Design and Construction	Airworthiness	Aircraft Systems (UAS)	2018	Published	Yes
		-	ASTM F38.01, Unmanned				
			Aircraft Systems (UAS) -			(New) In	
WG1	Airworthiness	Design and Construction	Airworthiness	ASTM WK53964 Design, Construct, and Test of VTOL		Development	Yes
			ASTM F38.01, Unmanned				
			Aircraft Systems (UAS) -	ASTM WK62670, Specification for Large UAS Design and		(New) In	
WG1	Airworthiness	Design and Construction	Airworthiness	Construction		Development	Yes
		5	ASTM F44.10, General Aviation -	ASTM F3264-18, Standard Specification for Normal			
WG1	Airworthiness	Design and Construction	General	Category Aeroplanes Certification	2018	Published	No
			ASTM F44.20, General Aviation -	ASTM 3082/F3082M-17, Standard Specification for			
WG1	Airworthiness	Design and Construction	Flight	Weights and Centers of Gravity of Aircraft	2017	Published	No
-			ASTM F44.20, General Aviation -	ASTM F3180/F3180M-18, Standard Specification for Low-	-		_
WG1	Airworthiness	Design and Construction	Flight	Speed Flight Characteristics of Aircraft	2018	Published	No
			ASTM F44.30, General Aviation -	ASTM F3115/F3115M-15, Standard Specification for			
WG1	Airworthiness	Design and Construction	Structures	Structural Durability for Small Airplanes	2015	Published	No
			ASTM F44.30, General Aviation -	ASTM F3116/F3116M-15, Standard Specification for			
WG1	Airworthiness	Design and Construction	Structures	Design Loads and Conditions	2015	Published	No
			ASTM F44.30, General Aviation -	ASTM WK59101, New Specification for Structures, Design	2010	(New) In	
WG1	Airworthiness	Design and Construction	Structures	and Construction		Development	No
			ASTM F44.30, General Aviation -	ASTM WK61232, New Practice for Low Stress Airframe		(New) In	
WG1	Airworthiness	Design and Construction	Structures	Structure		Development	No
		Design and Construction	ISO/TC 20/SC 16, Unmanned	ISO/CD 21384-2, Unmanned aircraft systems - Part 2:		(New) In	110
WG1	Airworthiness	Design and Construction		Product systems		Development	Yes
				JARUS CS-LUAS, Recommendations for Certification		2010.000	
				Specification for Light Unmmaned Aeroplane Systems. It			
				provides recommendations for States to use for their own			
				national legislation, concerning Certification Specification			
				for Light Unmanned Aeroplane Systems. (see JARUS Work			
WC1	Airworthiness	Design and Construction	JARUS WG3 - Airworthiness	Plan)	Dec-16	Published	Yes
WGI				JARUS CS-LURS, Certification Specification for Light	Dec-10		165
WC1	Airworthiness	Design and Construction	JARUS WG3 - Airworthiness	Unmanned Rotorcraft Systems	Oct 12	Published	Yes
1001		Design and Construction		onmanneu Notororan Oystems	Oct-13		169

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
				JARUS AMC RPAS 1309, Safety Assessment of Remotely			
				Piloted Aircraft Systems (package). Document developed			
-			JARUS WG6 - Safety & Risk	as an integral part of a type-certification process. It is a			
WG1	Airworthiness	Design and Construction	Management	means of compliance to a 1309 airworthiness requirement.	Nov-15	Published	Yes
			ASTM F38.01, Unmanned	ASTM F3269-17, Standard Practice for Methods to Safely			
			Aircraft Systems (UAS) -	Bound Flight Behavior of Unmanned Aircraft Systems			
WG1	Airworthiness	Safety	Airworthiness	Containing Complex Functions	2017	Published	Yes
			ASTM F44.50, General Aviation -	ASTM WK52827, New Practice for Safety Analysis of		(New) In	
WG1	Airworthiness	Safety	Systems and Equipment	Systems & Equipment Retrofit in Small Aircraft		Development	No
			SAE S-18 Aircraft and Sys Dev	SAE ARP4754A, Guidelines for Development of Civil			
WG1	Airworthiness	Safety	and Safety Assessment	Aircraft and Systems	21-Dec-10	Published	No
				SAE ARP4761, Guidelines and Methods for Conducting the			
			SAE S-18 Aircraft and Sys Dev	Safety Assessment Process on Civil Airborne Systems and			
WG1	Airworthiness	Safety	and Safety Assessment	Equipment	1-Dec-96	Published	No
				SAE ARP4761, Guidelines and Methods for Conducting the			
			SAE S-18 Aircraft and Sys Dev	Safety Assessment Process on Civil Airborne Systems and			
WG1	Airworthiness	Safety	and Safety Assessment	Equipment	1-Dec-96	Published	No
				SAE ARP4761A, Guidelines And Methods For Conducting			
			SAE S-18 Aircraft and Sys Dev	The Safety Assessment Process On Civil Airborne Systems		(Revision) In	
WG1	Airworthiness	Safety	and Safety Assessment	And Equipment		Development	No
			SAE S-18 Aircraft and Sys Dev	SAE AIR6913, Using STPA During Development and		(New) In	
WG1	Airworthiness	Safety	and Safety Assessment	Safety Assessment of Civil Aircraft		Development	No
			SAE S-18 Aircraft and Sys Dev	SAE ARP4754B, Guidelines for Development of Civil		(New) In	
WG1	Airworthiness	Safety	and Safety Assessment	Aircraft and Systems		Development	No
			-				
		Quality Assurance/Quality	ASTM E11.10, Sampling /	ASTM E105-16, Standard Practice for Probability Sampling			
WG1	Airworthiness	Control	Statistics	of Materials	2016	Published	No
				ASTM E122-17, Standard Practice for Calculating Sample			
		Quality Assurance/Quality	ASTM E11.10, Sampling /	Size to Estimate, With Specified Precision, the Average for			
WG1	Airworthiness		Statistics	a Characteristic of a Lot or Process	2017	Published	No
		Quality Assurance/Quality	ASTM E11.10, Sampling /	ASTM E1325-16, Standard Terminology Relating to Design			
WG1	Airworthiness	Control	Statistics	of Experiments	2016	Published	No
					2010	i ubiloniou	110
		Quality Assurance/Quality	ASTM E11.10, Sampling /				
WG1	Airworthiness	Control	Statistics	ASTM E1402-13, Standard Guide for Sampling Design	2013	Published	No
001	All WOLUTINESS	Control	Statistics		2013	i ublished	INO
		Quality Assurance/Quality	ASTM E11.10, Sampling /	ASTM E141-10(2018), Standard Practice for Acceptance of			
MC1	Ainworthingoog		Statistics	Evidence Based on the Results of Probability Sampling	2018	Published	No
WG1	Airworthiness	Control	Statistics	Evidence based on the Results of Probability Sampling	2016	Published	INO
			ACTMENT 10 Compliant	ACTM E479 466 Stondard Drastics for Dealing With			
MOA	A image at 1 - 1		ASTM E11.10, Sampling /	ASTM E178-16a, Standard Practice for Dealing With	0040	Dublished	NI-
WG1	Airworthiness	Control	Statistics	Outlying Observations	2016	Published	No
				AOTM E0500 40. Other devel Departies for Only, 1.4			
	A		ASTM E11.10, Sampling /	ASTM E2586-18, Standard Practice for Calculating and	00/0		
WG1	Airworthiness	Control	Statistics	Using Basic Statistics	2018	Published	No
			ASTM E11.10, Sampling /	ASTM E3080-17, Standard Practice for Regression			
WG1	Airworthiness	Control	Statistics	Analysis	2017	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E1169-18, Standard Practice for Conducting Ruggedness Tests	2018	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E1323-15, Standard Guide for Evaluating Laboratory Measurement Practices and the Statistical Analysis of the Resulting Data	2015	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E1488-12(2018), Standard Guide for Statistical Procedures to Use in Developing and Applying Test Methods	2018	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E177-14, Standard Practice for Use of the Terms Precision and Bias in ASTM Test Methods	2014	Published	No
WG1	Airworthiness	,	ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2282-14, Standard Guide for Defining the Test Result of a Test Method	2014	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2489-16, Standard Practice for Statistical Analysis of One-Sample and Two-Sample Interlaboratory Proficiency <u>Testing Programs</u>	2016	Published	No
WG1	Airworthiness	, , ,	ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2554-18, Standard Practice for Estimating and Monitoring the Uncertainty of Test Results of a Test Method Using Control Chart Techniques ASTM E2655-14, Standard Guide for Reporting Uncertainty	2018	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	of Test Results and Use of the Term Measurement Uncertainty in ASTM Test Methods	2014	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2709-14e1, Standard Practice for Demonstrating Capability to Comply with an Acceptance Procedure	2014	Published	No
WG1	Airworthiness	,	ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2782-17, Standard Guide for Measurement Systems Analysis (MSA)	2017	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E2935-17, Standard Practice for Conducting Equivalence Testing in Laboratory Applications	2017	Published	No
WG1	Airworthiness		ASTM E11.20, Test Method Evaluation and Quality Control	ASTM E691-18, Standard Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method	2018	Published	No
WG1	Airworthiness		ASTM E11.30, Statistical Quality Control	ASTM E1994-09(2018), Standard Practice for Use of Process Oriented AOQL and LTPD Sampling Plans	2018	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2234-09(2013), Standard Practice for Sampling a Stream of Product by Attributes Indexed by AQL	2013	Published	No
WG1	Airworthiness		ASTM E11.30, Statistical Quality Control	ASTM E2281-15, Standard Practice for Process Capability and Performance Measurement	2015	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2334-09(2018), Standard Practice for Setting an Upper Confidence Bound For a Fraction or Number of Non- Conforming items, or a Rate of Occurrence for Non- conformities, Using Attribute Data, When There is a Zero Response in the Sample	2018	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2587-16, Standard Practice for Use of Control Charts in Statistical Process Control	2016	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2762-10(2014), Standard Practice for Sampling a Stream of Product by Variables Indexed by AQL	2014	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2819-11(2015), Standard Practice for Single- and Multi-Level Continuous Sampling of a Stream of Product by Attributes Indexed by AQL	2015	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E2910-12(2018), Standard Guide for Preferred Methods for Acceptance of Product	2018	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.30, Statistical Quality Control	ASTM E29-13, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications	2013	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.40, Reliability	ASTM E2555-07(2018), Standard Practice for Factors and Procedures for Applying the MIL-STD-105 Plans in Life and Reliability Inspection	2018	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.40, Reliability	ASTM E2696-09(2013), Standard Practice for Life and Reliability Testing Based on the Exponential Distribution	2013	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.40, Reliability	ASTM E3159-18, Standard Guide for General Reliability	2018	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E11.70, Editorial/Terminology	ASTM E456-13A(2017)e2, Standard Terminology Relating to Quality and Statistics	2017	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM E43.10, Standards	ASTM SI10-16, IEEE/ASTM SI 10 American National Standard for Metric Practice	2016	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM F37.70, Light Sport Aircraft - Cross Cutting	ASTM F2972-15, Standard Specification for Light Sport Aircraft Manufacturer's Quality Assurance System	2015	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM F3003-14 Standard Specification for Quality Assurance of a Small Unmanned Aircraft System (sUAS)	2014	Published	Yes
WG1	Airworthiness	Quality Assurance/Quality Control	ASTM F39.04, Aircraft Systems - Aircraft Systems	ASTM WK51467, New Specification for Quality Assurance for Manufacturers of Aircraft Systems		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	ISO/IEC JTC 1/SC 7 Software and systems engineering	ISO/IEC/IEEE 90003:2018, Software engineering – Guidelines for the application of ISO 9001:2015 to computer software	2014	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Quality Assurance/Quality Control	ISO/TC 176/SC 2 Quality systems	ISO 9001:2015, Quality management systems – Requirements	2015	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	ISO/TC 176/SC 2 Quality systems	ISO 9004:2018, Quality management – Quality of an organization – Guidance to achieve sustained success	2018	Published	No
WG1	Airworthiness		SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AS6522, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Technical Governance	20-Dec-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9005A, Aerospace Guidance for Non-Deliverable Software	27-Jun-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9009A, Aerospace Contract Clauses	21-Jun-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9034A, A Process Standard for the Storage. Retrieval and Use of Three-Dimensional Type Design Data	21-Apr-15	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9090A, Requirements for Industry Standard e- Tool to Collaborate Quality Assurance Activities Among Customers and Suppliers	6-Feb-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9107A, Direct Delivery Authorization Guidance for Aerospace Companies	9-Nov-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9114A, Direct Ship Guidance for Aerospace Companies	6-Feb-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9134A, Supply Chain Risk Management Guideline	6-Feb-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9136, Aerospace Series - Root Cause Analysis and Problem Solving (9S Methodology)	8-Nov-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9137, Guidance for the Application of AQAP 2110 within a 9100 Quality Management System	6-May-10	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9003A, Inspection and Test Quality Systems, Requirements for Aviation, Space, and Defense Organizations	31-Jul-12	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9006A, Deliverable Aerospace Software Supplement for AS9100A, Quality Management Systems - Aerospace - Requirements for Software (based on AS9100A)	9-Jul-13	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9017, Control of Aviation Critical Safety Items	17-Mar-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9100D, Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations	20-Sep-16	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9101F, Quality Management Systems - Audit Requirements for Aviation, Space, and Defense Organizations	31-Oct-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9102B, Aerospace First Article Inspection Requirement	6-Oct-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9103A, Aerospace Series - Quality Management Systems - Variation Management of Key Characteristics	16-Aug-12	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9104/1, Requirements for Aviation, Space, and Defense Quality Management System Certification Programs	31-Jan-12	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9104/2A, Requirements for Oversight of Aerospace Quality Management System Registration/Certification Programs	13-Jun-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9104/3, Requirements for Aerospace Auditor Competency and Training Courses	29-Mar-07	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9110C, Quality Management Systems – Requirements for Aviation Maintenance Organizations	4-Nov-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9115A, Quality Management Systems - Requirements for Aviation, Space, and Defense Organizations - Deliverable Software(Supplement to 9100:2016)	1-Feb-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9116, Aerospace Series - Notice of Change (NOC) Requirements	30-Oct-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9117, Delegated Product Release Verification	29-Mar-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9120B, Quality Management Systems – Requirements for Aviation, Space, and Defense Distributors	1-Nov-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9131C, Aerospace Series - Quality Management Systems - Nonconformance Data Definition and Documentation	16-Aug-12	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9132B, Data Matrix Quality Requirements for Parts Marking	19-May-15	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9133A, Qualification Procedure for Aerospace Standard Products	20-Apr-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9138, Aerospace Series - Quality Management Systems Statistical Product Acceptance Requirements	20-Jan-18	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9145, Aerospace Series – Requirements for Advanced Product Quality Planning and Production Part Approval Process	8-Nov-16	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9146, Foreign Object Damage (FOD) Prevention Program - Requirements for Aviation, Space, and Defense Organizations	26-Apr-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9162, Aerospace Operator Self-Verification Programs	8-Nov-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE ARP9137A, Guidance for the Application of AQAP 2110 within a 9100 Quality Management System		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9103B Aerospace Series - Quality Management Systems - Variation Management of Key Characteristics		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9104/1A, Requirements for Aviation, Space, and Defense Quality Management System Certification Programs		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9104/3A, Requirements for Aerospace Auditor Competency and Training Courses		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9131D, Aerospace Series - Quality Management Systems - Nonconformance Data Definition and Documentation		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-14 Aerospace Quality	SAE AS9147, Unsalvageable Parts Initiative		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/1, Suspect/Counterfeit Test Evaluation Method	30-Oct-16	Published	No
WG1	Airworthiness		SAE G-19A Test Laboratory Standards Development	SAE AS6171/10, Techniques for Suspect/Counterfeit EEE Parts Detection by Thermogravimetric Analysis (TGA) Test Methods	30-Oct-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/11, Techniques for Suspect/Counterfeit EEE Parts Detection by Design Recovery Test Methods	30-Oct-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/2A, Techniques for Suspect/Counterfeit EEE Parts Detection by External Visual Inspection, Remarking and Resurfacing, and Surface Texture Analysis Using SEM Test Methods	11-May-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/3, Techniques for Suspect/Counterfeit EEE Parts Detection by X-ray Fluorescence Test Methods	30-Oct-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/4, Techniques for Suspect/Counterfeit EEE Parts Detection by Delid/Decapsulation Physical Analysis Test Methods	30-Oct-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/5, Techniques for Suspect/Counterfeit EEE Parts Detection by Radiological Test Methods	30-Oct-16	Published	No
WG1	Airworthiness		SAE G-19A Test Laboratory Standards Development	SAE AS6171/6, Techniques for Suspect/Counterfeit EEE Parts Detection by Acoustic Microscopy (AM) Test Methods	30-Oct-16	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
		Quality Assurance/Quality	SAE G-19A Test Laboratory	SAE AS6171/7, Techniques for Suspect/Counterfeit EEE			
WG1	Airworthiness	Control	Standards Development	Parts Detection by Electrical Test Methods	30-Oct-16	Published	No
		Quality Assurance/Quality	SAE G-19A Test Laboratory	SAE AS6171/8, Techniques for Suspect/Counterfeit EEE			
WG1	Airworthiness	Control	Standards Development	Parts Detection by Raman Spectroscopy Test Methods	30-Oct-16	Published	No
				SAE AS6171/9, Techniques for Suspect/Counterfeit EEE			
			SAE G-19A Test Laboratory	Parts Detection by Fourier Transform Infrared			
WG1	Airworthiness	Control	Standards Development	Spectroscopy (FTIR) Test Methods	30-Oct-16	Published	No
				SAE AS6171A, Test Methods Standard; General			
			SAE G-19A Test Laboratory	Requirements, Suspect/Counterfeit, Electrical, Electronic,			
WG1	Airworthiness	Control	Standards Development	and Electromechanical Parts	18-Apr-18	Published	No
				SAE AS6810, Requirements for Accreditation Bodies when			
				Accrediting Test Laboratories Performing Detection of			
	A		SAE G-19A Test Laboratory	Suspect/Counterfeit in Accordance with AS6171 General	40 M 40		
WG1	Airworthiness	Control	Standards Development	Requirements and the Associated Test Methods	16-May-18	Published	No
				SAE AS6171/12 TECHNIQUES FOR			
				SUSPECT/COUNTERFEIT EEE PARTS DETECTION OF		(Naux) In	
MOA	A improve with improve		SAE G-19A Test Laboratory	CAPACITORS BY ACOUSTIC MICROSCOPY (AM) TEST METHODS		(New) In	Nie
WG1	Airworthiness	Control	Standards Development	SAE AS6171/13 Technique for Suspect/Counterfeit EEE		Development	No
			SAE G-19A Test Laboratory	Parts Detection by Secondary Ion Mass Spectrometry		(New) In	
WC1	Airworthiness		Standards Development	(SIMS) Test Method		Development	No
WGI	Airwortminess	Control		SAE AS6171/14 TECHNIQUES FOR		Development	INO
				SUSPECT/COUNTERFEIT EEE PARTS DETECTION BY			
		Quality Assurance/Quality	SAE G-19A Test Laboratory	RADIATED ELECTROMAGNETIC EMISSION (REME)		(New) In	
WG1	Airworthiness		Standards Development	ANALYSIS TEST METHODS		Development	No
				SAE AS6171/15 AS6171 TECHNIQUES FOR		Development	110
		Quality Assurance/Quality	SAE G-19A Test Laboratory	SUSPECT/COUNTERFEIT EEE PART PACKAGING		(New) In	
WG1	Airworthiness	Control	Standards Development	DETECTION BY VARIOUS TEST METHODS		Development	No
MOA	A imu anth in a sa		SAE G-19A Test Laboratory	SAE AS6171/16 Techniques for Suspect/Counterfeit EEE		(New) In	Nie
WG1	Airworthiness	Control	Standards Development	Parts Detection by Netlist Assurance Test Methods SAE AS6171/17 Technique for Suspect/Counterfeit EEE		Development	No
				Parts Detection by Laser Scanning Microscopy (LSM) and			
		Quality Assurance/Quality	SAE G-19A Test Laboratory	Confocal Laser Scanning Microscopy (LSM) and		(New) In	
WG1	Airworthiness	Control	Standards Development	Methods		Development	No
1101	Airworthiness	Control		SAE AS6171/18 Techniques for Suspect/Counterfeit EEE		Development	NO
		Quality Assurance/Quality	SAE G-19A Test Laboratory	Parts Detection by Thermomechanical Analysis (TMA) Test		(New) In	
WG1	Airworthiness	Control	Standards Development	Methods		Development	No
				SAE AS6171/19 Techniques for Suspect/Counterfeit EEE		2010.000	
		Quality Assurance/Quality	SAE G-19A Test Laboratory	Parts Detection by Auger Electron Spectroscopy (AES)		(New) In	
WG1	Airworthiness		Standards Development	Test Method		Development	No
-				SAE AS6171/20 Techniques for Suspect/Counterfeit EEE			-
		Quality Assurance/Quality	SAE G-19A Test Laboratory	Parts Detection by X-Ray Photoelectron Spectroscopy		(New) In	
WG1	Airworthiness	Control	Standards Development	(XPS) Test Method		Development	No
			· · · · ·	SAE AS6171/21 Techniques for Suspect/Counterfeit EEE		· ·	
		Quality Assurance/Quality	SAE G-19A Test Laboratory	Parts Detection by Gas Chromatography/Mass		(New) In	
WG1	Airworthiness	Control	Standards Development	Spectrometry (GC/MS) Test Methods		Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness		SAE G-19A Test Laboratory Standards Development	SAE AS6171/22 Technique for Suspect/Counterfeit EEE Parts Detection by Scanning Electron Microscopy (SEM) including Energy Dispersive X-Ray Spectroscopy Test Methods		(New) In Development	No
	Airworthiness	Quality Assurance/Quality	SAE G-19A Test Laboratory Standards Development	SAE AS6171/23 Techniques for Suspect/Counterfeit EEE Assembly Detection by Various Test Methods		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/4A Techniques for Suspect/Counterfeit EEE Parts Detection by Delid/Decapsulation Physical Analysis Test Methods		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19A Test Laboratory Standards Development	SAE AS6171/6A Techniques for Suspect/Counterfeit EEE Parts Detection by Acoustic Microscopy (AM) Test Methods		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19AD Authorized Distributor Committee	SAE AS6496, Fraudulent/Counterfeit Electronic Parts: <u>Avoidance, Detection, Mitigation, and Disposition -</u> <u>Authorized/Franchised Distribution</u> <u>SAE AS6301</u> Compliance Variantian Criterian Standard	20-Aug-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19C Standards Compliance Verification	SAE AS6301, Compliance Verification Criterion Standard for SAE AS6081, Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition – Distributors	14-Jan-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19C Standards Compliance Verification	SAE AS6462A, AS5553A, Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition Verification Criteria	26-Aug-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19C Standards Compliance Verification	SAE AS6462B AS5553A, Fraudulent/Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition Verification Criteria		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19CI Continuous Improvement	SAE AIR6860, Use of AS5553 for Implementation of Defense Federal Acquisition Regulation Supplement 252- 246-7007	28-Sep-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19CI Continuous Improvement	SAE ARP6328, Guideline for Development of Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition Systems	12-Sep-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19CI Continuous Improvement	SAE AS5553B, Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition	12-Sep-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19CI Continuous Improvement	SAE AS5553C Counterfeit Electrical, Electronic, and Electromechanical (EEE) Parts; Avoidance, Detection, Mitigation, and Disposition		Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19CI Continuous Improvement	SAE ARP6328A Guideline for Development of Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition Systems		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19D Distributor	SAE AS6081, Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - DistributorsCounterfeit Electronic Parts; Avoidance Protocol, Distributors	7-Nov-12	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19D Distributor	SAE AS6081A Fraudulent/Counterfeit Electronic Parts: Avoidance, Detection, Mitigation, and Disposition - DistributorsCounterfeit Electronic Parts; Avoidance Protocol, Distributors		(New) In Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19DR Distributor Risk Characterization	SAE ARP6178, Fraudulent/Counterfeit Electronic Parts; Tool for Risk Assessment of Distributors	19-Dec-11	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-19T Terms and Definitions	SAE AIR6273 Terms, Definitions, and Acronyms - Counterfeit Materiel or Electrical, Electronic and Electromechanical Parts		(New) In Development	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-21 Counterfeit Materiel	SAE AS6174/1, Compliance Verification Matrix (VM) Slash Sheet for SAE AS6174A, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel	11-Apr-17	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-21 Counterfeit Materiel	SAE AS6174/2, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel –Fasteners Slash Sheet	17-May-16	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-21 Counterfeit Materiel	SAE AS6174A, Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel	29-Jul-14	Published	No
WG1	Airworthiness	Quality Assurance/Quality Control	SAE G-21 Counterfeit Materiel	SAE AS6174/3 Counterfeit Materiel; Assuring Acquisition of Authentic and Conforming Materiel - Bearings Slash Sheet		(New) In Development	No
WG1	Airworthiness	, , , , , , , , , , , , , , , , , , , ,	SAE S-18 Aircraft and Sys Dev and Safety Assessment	ARP5150, Safety Assessment of Transport Airplanes in Commercial Service	9-May-13	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	ARP5151, Safety Assessment of General Aviation Airplanes and Rotorcraft in Commercial Service	9-May-13	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE AIR6110, Contiguous Aircraft/System Development Process Example	16-Dec-11	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE AIR6218, Constructing Development Assurance Plan for Integrated Systems	5-Sep-12	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE ARP1834B, Fault/Failure Analysis for Digital Systems and Equipment	14-Feb-18	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE ARP5150, Safety Assessment of Transport Airplanes in Commercial Service	9-May-13	Published	No
WG1	Airworthiness		SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE ARP926C, Fault/Failure Analysis Procedure	14-Feb-18	Published	No
WG1	Airworthiness	Control	SAE S-18 Aircraft and Sys Dev and Safety Assessment	SAE AIR6276, USE OF MODELING AND TOOLS FOR AIRCRAFT SYSTEMS DEVELOPMENT – A STRATEGY FOR DEVELOPMENT ASSURANCE ASPECTS WITH EXAMPLES		(New) In Development	No
WG1	Airworthiness		ASTM F39.03, Aircraft Systems - Design of Avionics Systems	ASTM F3011-13, Standard Specification for Performance of Angle of Attack System	2013	Published	No
WG1	Airworthiness	Avionics and Subsystems	ASTM F39.03, Aircraft Systems - Design of Avionics Systems	ASTM F3153-15, Standard Specification for Verification of Avionics Systems	2015	Published	No
WG1	Airworthiness		ASTM F39.03, Aircraft Systems - Design of Avionics Systems	ASTM WK47489, New Specification for Design, Performance and Manufacturing of Automatic Pilot System		(New) In Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM F44.30, General Aviation -	ASTM WK57818, New Practice for Aircraft Systems and		(New) In	
WG1	Airworthiness	Avionics and Subsystems	Structures	Structures Interaction		Development	No
WG1	Airworthiness	Avionics and Subsystems	SAE A-4 EFIS	SAE AS6296, Electronic Flight Instrument System (EFIS) Displays	8-Jul-05	Published	No
				SAE AS6254A, Minimum Performance Standard for Low			
-			SAE A-4 Underwater Locator	Frequency Underwater Locating Devices (Acoustic) (Self-			
WG1	Airworthiness	Avionics and Subsystems		Powered)	2015	Published	No
			SAE A-4 Underwater Locator	SAE AS8045A, Minimum Performance Standard for			
WG1	Airworthiness	Avionics and Subsystems	Device	Underwater Locating Devices (Acoustic) (Self-Powered)	2011	Published	No
MOA	A im u anth in a a a	Avianias and Cubevetanes		SAE AS8034C, Minimum Performance Standard for Airborne Multipurpose Electronic Displays	2010	Dublished	Nia
WG1	Airworthiness	Avionics and Subsystems	SAE A-4ED Electronics Display		2018	Published	No
WG1	Airworthiness	Avionics and Subsystems		ARINC677, Installation Standards for Low Frequency Underwater Locator Beacon (LF-ULB)	15-Jul-15	Published	No
WGI	Airwortniness	Avionics and Subsystems	SAE ARING	ARINC718A-4, Mark 4 Air Traffic Control Transponder	10-Jul-10	Fublished	INU
WG1	Airworthiness	Avionics and Subsystems		(ATCRBS/Mode S)	1-Dec-11	Published	No
***	Anworthiness			ARINC735B-2, Traffic Computer TCAS and ADS-B	T DCC TT	i ublisticu	NO
WG1	Airworthiness	Avionics and Subsystems	SAE ARING	Functionality	6-Aug-15	Published	No
	/ 11 WOI 11 11 1000			SAE ARP5621, Electronic Display of Aeronautical	07.0310	1 abiistica	110
WG1	Airworthiness	Avionics and Subsystems	SAE G10J Charting Committee	Information (Charts)	3-Jul-05	Published	No
		Avionics and	ASTM F38.01, Unmanned	ASTM F3002-14a, Standard Specification for Design of the			
		Subsystems: Command	Aircraft Systems (UAS) -	Command and Control System for Small Unmanned Aircraft			
WG1	Airworthiness		Airworthiness	Systems (sUAS)	2014	Published	Yes
		Avionics and	ASTM F38.01, Unmanned	ASTM WK49440, Revision of F3002 - 14a Standard			
		Subsystems: Command	Aircraft Systems (UAS) -	Specification for Design of the Command and Control		(Revision) In	
WG1	Airworthiness	and Control (C2) Link	Airworthiness	System for Small Unmanned Aircraft Systems (sUAS)		Development	Yes
				JARUS, Recommendations on the Use of Controller Pilot			
				Data Link Communications (CPDLC) in the RPAS			
				Communications Context. The Controller Pilot Data Link			
				Communications document is meant to summarize the			
		Avionics and		most relevant information about CPDLC and the supported			
		Subsystems: Command	JARUS WG5 - Command,	ATS services, and to associate them with RPAS			
WG1	Airworthiness	and Control (C2) Link	Control, & Communications	operations.	Jun-16	Published	Yes
				JARUS, RPAS C2 Link, Required Communication			
				Performance (C2 link RCP) concept. Guidance material to			
				explain the concept of C2 link RCP and identify the			
		Avionics and		requirements applicable to the provision of C2			
	A im u anth in a a a	5	JARUS WG5 - Command,	communications.(SEE UPGRADED C2 Link RLP document	Oct 11	Dublished	Vaa
WG1	Airworthiness	and Control (C2) Link	Control, & Communications	JAR-doc-13) JARUS, RPAS "Required C2 Performance" (RLP) concept.	Oct-14	Published	Yes
				RCP acronym has been modified to RLP to avoid confusion			
		Avionics and		between current RCP supporting ATM functions and the			
		Subsystems: Command	JARUS WG5, Command,	required C2 Link performance in support of the command			
WG1	Airworthiness	and Control (C2) Link	Control, & Communications	and control functions.	May-16	Published	Yes
				JARUS, RPAS C2 Link CONOPS. This document is			
				focusing on the C2 Link. It includes a large section on the			
		Avionics and		Aeronautical Information (AIS) and Meteorological			
			JARUS WG5, Command,	Information (MET) that are needed from an aircraft (RPA)		(New) In	
WG1	Airworthiness	and Control (C2) Link	Control, & Communications	perspective when operating in airspace using the C2 Link.		Development	Yes

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			RTCA SC-228, Minimal				
		Avionics and	Operational Performance				
				RTCA AWP-2, Command and Control (C2) Data Link White			
WG1	Airworthiness	and Control (C2) Link	Systems	<u>Paper</u>	Mar-14	Published	Yes
			RTCA SC-228, Minimal				
		Avionics and	Operational Performance	RTCA AWR 4. Command and Control (C2) Rate Link White			
WC1	Airworthiness	,	Systems	RTCA AWP-4, Command and Control (C2) Data Link White Paper Phase 2	Sep-17	Published	Yes
WGI	Allworthiness		RTCA SC-228, Minimal		Sep-17	Fublished	Tes
		Avionics and	Operational Performance	RTCA DO-362, Command and Control (C2) Data Link			
				Minimum Operational Performance Standard (MOPS)			
WG1	Airworthiness	-	Systems	(Terrestrial)	Sep-16	Published	Yes
WGI	Airwortriiness		RTCA SC-228, Minimal		3ep-10	Fublished	165
		Avionics and	Operational Performance				
				RTCA, Command and Control Data Link Minimum Aviation		New (In	
WG1	Airworthiness	-	Systems	Systems Performance Standard (MASPS)		Development)	Yes
001	Anworthiness		RTCA SC-159, Navigation	oystems renormance orandard (MrXor Of		Developmenty	103
		Avionics and	Equipment Using the Global	RTCA DO-229, Minimum Operational Performance			
			Navigation Satellite System	Standards for Global Positioning System/Wide Area			
WG1	Airworthiness	Systems	(GNSS)	Augmentation System Airborne Equipment	2001	Published	No
001	Anworthiness	Gystellis	RTCA SC-159, Navigation	Adginentation Oystem Airbonne Equipment	2001	1 ublished	NO
		Avionics and	Equipment Using the Global	RTCA DO-316, Minimum Operational Performance			
			Navigation Satellite System	Standards for Global Positioning System/Aircraft Base			
WG1	Airworthiness	Systems	(GNSS)	Augmentation System	2009	Published	No
0001	Anworthiness	oystellis		SAE 6857, Requirements for a Terrestrial Based Position,	2005	1 ublished	
		Avionics and		Navigation, and Timing (PNT) System to Improve			
			SAE PNT Position, Navigation,	Navigation Solutions and Ensure Critical Infrastructure			
WG1	Airworthiness	Systems	and Timing	Security	2018	Published	No
		Avionics and		SAE 6856, Improving Navigation Solutions Using Raw	2010	1 abiloitoa	
			SAE PNT Position, Navigation,	Measurements from Global Navigation Satellite System		(New) In	
WG1	Airworthiness		and Timing	(GNSS) Receivers		Development	No
		Avionics and				Bovolopinon	
		Subsystems: Navigational					
WG1	Airworthiness	Systems	ТІА	TIA-1008, IP over Satellite (IPoS) (Revision B)	May-12	Published	No
		Avionics and			11103 12	1 45101104	
		Subsystems: Navigational		TIA-1073.000, Satellite Network Modem System (SNMS)			
WG1	Airworthiness		ТІА	General Requirements	Oct-05	Published	No
		Avionics and			00000	1 abiloitoa	
		Subsystems: Navigational		TIA-1073.001, Satellite Network System (SNMS) Network			
WG1	Airworthiness	Systems	ТІА	Laver Standard	Jun-06	Published	No
	,	Avionics and			0011 00	1 donoriod	
		Subsystems: Navigational		TIA-1073.002, Satellite Network Modem System (SNMS)			
WG1	Airworthiness		ТІА	Encryption Requirements	Jul-06	Published	No
		Avionics and		TIA-5041, Future Advanced SATCOM Technologies	00.00	1 45101104	
		Subsystems: Navigational		(FAST) Open Standard Digital- If Interface (OSDI) for			
WG1	Airworthiness		ТІА	SATCOM Systems	20-Apr-16	Published	No
		Avionics and					
			AIAA American Institute of	ANSI/AIAA G-043B-2018, Guide to the Preparation of			
WG1	Airworthiness	Avoid Systems	Aeronautics and Astronautics	Operational Concept Documents	2018	Published	No
001			Actoriautics and Astronautics	operational concept Documents	2010		UVI

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
		Avionics and					
		Subsystems: Detect and	AIAA Atmospheric and Space	AIAA S-117A-2016, Space Systems Verification Program	0010		
WG1	Airworthiness	Avoid Systems	Environment	and Management Process	2016	Published	No
		Avionics and		ANSI/AIAA S-102.2.4-2015, Performance-Based Product			
14/04	A	Subsystems: Detect and	AIAA Atmospheric and Space	Failure Mode, Effects and Criticality Analysis (FMECA)	0045		
WG1	Airworthiness	Avoid Systems	Environment	Requirements	2015	Published	No
		Avionics and		ANOVALA & C 400 0 4 0045. Devfermentes Deve d Dev duct			
14/04	A	Subsystems: Detect and	AIAA Atmospheric and Space	ANSI/AIAA S-102.2.4-2015, Performance-Based Product	0045		
WG1	Airworthiness	Avoid Systems	Environment	Failure Mode, Effects and Criticality Analysis Requirements	2015	Published	No
		Avionics and	AIAA Performance-Based				
14/04	A	Subsystems: Detect and	Reliability & Maintainability	AIAA S-102.2.5-2009, Performance-Based Sneak Circuit	0000		
WG1	Airworthiness	Avoid Systems	Standards	Analysis (SCA) Requirements	2009	Published	No
		Avionics and	AIAA Performance-Based	ANSI/AIAA S-102.1.4-2009, Performance-Based Failure			
		Subsystems: Detect and	Reliability & Maintainability	Reporting, Analysis & Corrective Action System			
WG1	Airworthiness	Avoid Systems	Standards	Requirements	2009	Published	No
		Avionics and	AIAA Performance-Based				
		Subsystems: Detect and	Reliability & Maintainability	ANSI/AIAA S-102.1.5-2009, Performance-Based Failure			
WG1	Airworthiness	Avoid Systems	Standards	Review Board (FRB) Requirements	2009	Published	No
		Avionics and	AIAA Performance-Based				
		Subsystems: Detect and	Reliability & Maintainability	ANSI/AIAA S-102.2.11-2009, Performance-Based Anomaly			
WG1	Airworthiness	Avoid Systems	Standards	Detection and Response Analysis	2009	Published	No
		Avionics and	AIAA Performance-Based				
		Subsystems: Detect and	Reliability & Maintainability	ANSI/AIAA S-102.2.18-2009, Performance-Based Fault			
WG1	Airworthiness	Avoid Systems	Standards	Tree Analysis Requirements	2009	Published	No
		Avionics and	AIAA Performance-Based				
		Subsystems: Detect and	Reliability & Maintainability	ANSI/AIAA S-102.2.18-2009, Performance-Based Fault			
WG1	Airworthiness	Avoid Systems	Standards	Tree Analysis Requirements	2009	Published	No
		Avionics and	AIAA Performance-Based				
		Subsystems: Detect and	Reliability & Maintainability	ANSI/AIAA S-102.2.2-2009, Performance-Based System			
WG1	Airworthiness	Avoid Systems	Standards	Reliability Modeling Requirements	2009	Published	No
		Avionics and					
		Subsystems: Detect and		AIAA G-010-1993, Guide: Reusable Software: Assessment			
WG1	Airworthiness	Avoid Systems	AIAA Software Systems	Criteria for Aerospace Applications	1993	Published	No
		Avionics and		AIAA G-118-2006, Guide: Managing the Use of Commercial			
		Subsystems: Detect and		Off the Shelf (COTS) Software Components for Mission-			
WG1	Airworthiness	Avoid Systems	AIAA Systems CoS	Critical Systems	2006	Published	No
		Avionics and					
		Subsystems: Detect and		AIAA R-103-2004, Terminology for Unmanned Aerial			
WG1	Airworthiness	Avoid Systems	AIAA UAV/ROA	Vehicles and Remotely Operated Aircraft	2004	Published	Yes
-		Avionics and	ASTM F38.01, Unmanned		-		
		Subsystems: Detect and		ASTM WK62668, Specification for Detect and Avoid		(New) In	
WG1	Airworthiness	Avoid Systems	Airworthiness	Performance Requirements		Development	Yes
		Avionics and	ASTM F38.01, Unmanned				
		Subsystems: Detect and	Aircraft Systems (UAS) -			(New) In	
WG1	Airworthiness	Avoid Systems	Airworthiness	ASTM WK62669. Test Method for Detect and Avoid		Development	Yes
		Avionics and		JARUS Detect and Avoid CONOPS for VLL operations. It is		Development	
		Subsystems: Detect and		intended to allow for further developments and elaboration		(New) In	
WG1	Airworthiness	Avoid Systems	JARUS WG4 - Detect & Avoid	of the operational concept for UAS at VLL		Development	Yes
1001				or the operational conception UAS at VLL		Development	100

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
		Avionics and		JARUS Detect and Avoid. This document describes the			
		Subsystems: Detect and		methods to derive design objectives for DAA systems		(New) In	
WG1	Airworthiness	Avoid Systems	JARUS WG4 - Detect & Avoid	based on airspace requirements.		Development	Yes
		Avionics and Subsystems: Detect and		RTCA DO-254. Design Assurance Guidance for Airborne			
WG1	Airworthiness	Avoid Systems	RTCA SC-180	Electronic Hardware (AEH)	Apr-00	Published	No
001	Airworthiness	Avionics and	RTCA SC-186, Automatic	RTCA DO-289, Minimum Aviation System Performance	Api-00	T ublished	INO
		Subsystems: Detect and	Dependent Surveillance-	Standards for Aircraft Surveillance Applications, December			
WG1	Airworthiness	Avoid Systems	Broadcast (ADS-B)	13. 2006	Dec-06	Published	Yes
	/ 11 WOI 11 11 1000			RTCA DO-181E, Minimum Operational Performance	000 00	1 abiiorica	100
				Standards for Air Traffic Control Radar Beacon			
		Avionics and		System/Mode Select (ATCRBS/Mode S) Airborne			
			RTCA SC-209, ATCRBS/Mode S	Equipment, Section 2 as amended by Appendix 2 of the			
WG1	Airworthiness	Avoid Systems	Transponder	TSO-112e dated September 16, 2013	Mar-11	Published	Yes
			RTCA SC-228, Minimal				
		Avionics and	Operational Performance				
		Subsystems: Detect and	Standards for Unmanned Aircraft				
WG1	Airworthiness	Avoid Systems	Systems	RTCA AWP-1, Detect and Avoid (DAA) White Paper	Mar-14	Published	Yes
		,	RTCA SC-228, Minimal				
		Avionics and	Operational Performance				
		Subsystems: Detect and		RTCA AWP-3, Detect and Avoid (DAA) White Paper Phase			
WG1	Airworthiness	Avoid Systems	Systems	2	Sep-17	Published	Yes
		-	RTCA SC-228, Minimal	-	•		
		Avionics and	Operational Performance				
		Subsystems: Detect and	Standards for Unmanned Aircraft	RTCA DO-365, Minimum Operational Performance			
WG1	Airworthiness	Avoid Systems	Systems	Standards (MOPS) for Detect and Avoid (DAA) Systems	May-17	Published	Yes
			RTCA SC-228, Minimal		·		
		Avionics and	Operational Performance	RTCA DO-366, Minimum Operational Performance			
		Subsystems: Detect and	Standards for Unmanned Aircraft	Standards (MOPS) for Air-to-Air Radar for Traffic			
WG1	Airworthiness	Avoid Systems	Systems	Surveillance	May-17	Published	Yes
		Avionics and	RTCA SC-231, Terrain	RTCA DO-367, Minimum Operational Performance			
		Subsystems: Detect and	Awareness and Warning System	Standards (MOPS) for Terrain Awareness and Warning			
WG1	Airworthiness	Avoid Systems	(TAWS)	Systems (TAWS) Airborne Equipment	May-17	Published	No
		Avionics and		SAE ARP94910, Aerospace - Vehicle Management			
			SAE A-6 Aerospace Actuation,	Systems - Flight Control Design, Installation and Test of,			
WG1	Airworthiness	Avoid Systems	Control and Fluid Power Systems	Military Unmanned Aircraft, Specification Guide For	29-Dec-12	Published	Yes
		Avionics and					
			SAE A-6A3 Flight Control and	SAE ARP5007A, Development Process - Aerospace Fly-By-			
WG1	Airworthiness	Avoid Systems	Vehicle Management Systems	Wire Actuation System	26-Apr-12	Published	No
		Avionics and					
		Subsystems: Detect and		ARINC 400 Series describes guidelines for installation,			
WG1	Airworthiness	Avoid Systems	SAE ARINC	wiring, data buses, and databases.	(various)	Published	No
				ARINC 500 Series describes older analog avionics			
		Avionics and		equipment used on early jet aircraft such as the Boeing			
		Subsystems: Detect and		727, Douglas DC-9, DC-10, Boeing 737 and 747, and			
WG1	Airworthiness	Avoid Systems	SAE ARINC	Airbus A300.	(various)	Published	No
		Avionics and					
		Subsystems: Detect and		ARINC 600 Series are reference standards for avionics	<i>,</i>		
WG1	Airworthiness	Avoid Systems	SAE ARINC	equipment specified by the SAE ARINC 700 Series.	(various)	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
		Avionics and		ARINC 700 Series describes the form, fit, and function of			
		Subsystems: Detect and		avionics equipment installed predominately on transport			
WG1	Airworthiness	Avoid Systems	SAE ARINC	category aircraft.	(various)	Published	No
		Avionics and		ARINC 800 Series comprises a set of aviation standards for			
		Subsystems: Detect and		aircraft, including fiber optics used in high-speed data			
WG1	Airworthiness	Avoid Systems	SAE ARINC	<u>buses.</u>	(various)	Published	No
		Avionics and	SAE AS-4JAUS Joint				
		Subsystems: Detect and	Architecture for Unamnned				
WG1	Airworthiness	Avoid Systems	Systems	SAE AIR5645A, JAUS Transport Considerations	5-Sep-14	Published	No
		Avionics and	SAE AS-4JAUS Joint				
			Architecture for Unamnned				
WG1	Airworthiness	Avoid Systems	Systems	SAE AIR5664A, JAUS History and Domain Model	16-Aug-12	Published	No
		Avionics and	SAE AS-4JAUS Joint				
		Subsystems: Detect and	Architecture for Unamnned	SAE AIR5665B, Architecture Framework for Unmanned			
WG1	Airworthiness	Avoid Systems	Systems	<u>Systems</u>	5-Feb-13	Published	No
		Avionics and	SAE AS-4JAUS Joint				
		Subsystems: Detect and	Architecture for Unamnned	SAE ARP6012A, JAUS Compliance and Interoperability			
WG1	Airworthiness	Avoid Systems	Systems	Policy	5-Sep-14	Published	No
		Avionics and	SAE AS-4JAUS Joint				
		Subsystems: Detect and	Architecture for Unamnned	SAE ARP6128, Unmanned Systems Terminology Based on			
WG1	Airworthiness	Avoid Systems	Systems	the ALFUS Framework	15-Mar-13	Published	No
		Avionics and	SAE AS-4JAUS Joint				
		Subsystems: Detect and	Architecture for Unamnned				
WG1	Airworthiness	Avoid Systems	Systems	SAE AS5669A, JAUS/SDP Transport Specification	5-Aug-14	Published	No
		Avionics and	SAE AS-4JAUS Joint		0		
		Subsystems: Detect and	Architecture for Unamnned				
WG1	Airworthiness	Avoid Systems	Systems	SAE AS6062A, JAUS Mission Spooling Service Set	24-Apr-15	Published	No
-		Avionics and	SAE AS-4JAUS Joint				
			Architecture for Unamnned	SAE AS6091, JAUS Unmanned Ground Vehicle Service			
WG1	Airworthiness	Avoid Systems	Systems	Set	29-Jul-14	Published	No
		Avionics and	SAE AS-4JAUS Joint		20 001 11	1 abilorioa	
			Architecture for Unamned	SAE AS6111, JAUS Unmanned Maritime Vehicle Service		(New) In	
WG1	Airworthiness	Avoid Systems	Systems	Set		Development	No
	/	Avionics and	SAE AS-4JAUS Joint			Development	110
		Subsystems: Detect and	Architecture for Unamned			(New) In	
WG1	Airworthiness	Avoid Systems	Systems	SAE AS8024, JAUS Autonomous Behaviors Service Set		Development	No
001	Airworthiness	Avionics and	SAE AS-4UCS Unmanned	SAL ASSOZA, SASS Autonomous Denavious Service Ser		Development	NO
			Systems (UxS) Control Segment	SAE AIR6514-2016, UxS Control Segment (UCS)			
WG1	Airworthiness	Avoid Systems	Architecture	Architecture: Interface Control Document (ICD)	20-Dec-16	Published	No
WGI	Airwortriiness	Avionics and	SAE DSRC (Dedicated Short	Architecture. Interface Control Document (ICD)	20-Dec-10	Fublished	INO
			Range Communication Tech	SAE J2735_201603, Dedicated Short Range			
MC1	Airworthiness	Avoid Systems				Published	No
WGI	Airwortniness	Avoid Systems	Cmte) SAE DSRC (Dedicated Short	Communications (DSRC) Message Set Dictionary	8-Jul-05	Published	No
		Avionics and		CAE 12045/40 Decommonded Drestings for MAD/0D-T		(New) In	
	A improved i		Range Communication Tech	SAE J2945/10, Recommended Practices for MAP/SPaT		(New) In	N
WG1	Airworthiness	Avoid Systems	Cmte)	Message Development		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
	A improved i		Range Communication Tech	SAE J2945/11, Recommended Practices for Signal		(New) In	N
WG1	Airworthiness	Avoid Systems	Cmte)	Preemption Message Development		Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
		Avionics and	SAE DSRC (Dedicated Short				
			Range Communication Tech			(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	SAE J2945/12, Traffic Probe Use and Operation		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
			Range Communication Tech	SAE J2945/2, DSRC Requirements for V2V Safety		(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	Awareness		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
			Range Communication Tech			(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	SAE J2945/3, Requirements for V2I Weather Applications		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
			Range Communication Tech	SAE J2945/4, DSRC Messages for Traveler Information		(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	and Basic Information Delivery		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
		Subsystems: Detect and	Range Communication Tech	SAE J2945/5, Service Specific Permissions and Security		(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	Guidelines for Connected Vehicle Applications		Development	No
		Avionics and	SAE DSRC (Dedicated Short				
		Subsystems: Detect and	Range Communication Tech	SAE J2945/6, Performance Requirements for Cooperative		(New) In	
WG1	Airworthiness	Avoid Systems	Cmte)	Adaptive Cruise Control and Platooning		Development	No
		Avionics and		SAE J2940_201111, Use of Model Verification and			
		Subsystems: Detect and		Validation in Product Reliability and Confidence			
WG1	Airworthiness	Avoid Systems	SAE Ground Vehicle Reliability	Assessments	16-Nov-11	Published	No
		Avionics and	,				
		Subsystems: Detect and		SAE J2958, Report on Unmanned Ground Vehicle			
WG1	Airworthiness	Avoid Systems	SAE Ground Vehicle Reliability	Reliability	21-Dec-11	Published	No
-		Avionics and		SAE J2924, Engineering Probabilistic Methods - Basic			-
		Subsystems: Detect and		Concepts, Models and Approximate Methods for		(New) In	
WG1	Airworthiness	Avoid Systems	SAE Ground Vehicle Reliability	Probabilistic Engineering Analysis		Development	No
		Avionics and				Dereiepinent	
		Subsystems: Detect and				(New) In	
WG1	Airworthiness	Avoid Systems	SAE Ground Vehicle Reliability	SAE J2925, System Reliability and Integration		Development	No
001	Air worthine 33	Avionics and		SAE J3016_201806, Taxonomy and Definitions for Terms		Development	NO
			SAE On-Road Automated Driving	Related to Driving Automation Systems for On-Road Motor			
WG1	Airworthiness	Avoid Systems	(ORAD)	Vehicles	15-Jun-18	Published	No
WGI	Airwortriniess	Avionics and	(ORAD)	SAE J3018_201503, Guidelines for Safe On-Road Testing	13-3uii-10	Fublisheu	INO
			SAE On Road Automated Driving	of SAE Level 3, 4, and 5 Prototype Automated Driving			
WG1	Airworthiness				13-Mar-15	Published	No
WGI	Airwortniness	Avoid Systems Avionics and	(ORAD)	Systems (ADS)	13-10101-15	Published	INO
			CAE On Deed Automoted Driving	CAE 12002 Dynamic Test Dress dynas for Merification 8		(Naur) In	
	A			SAE J3092, Dynamic Test Procedures for Verification &		(New) In	
WG1	Airworthiness	Avoid Systems	(ORAD)	Validation of Automated Driving Systems (ADS)		Development	No
		Avionics and					
			SAE On-Road Automated Driving			(New) In	
WG1	Airworthiness	Avoid Systems	(ORAD)	SAE J3131, Automated Driving Reference Architecture		Development	No
		Avionics and		SAE J3164, Taxonomy and Definitions for Terms Related to		<i></i>	
		,	5	Automated Driving System Behaviors and Maneuvers for		(New) In	_
WG1	Airworthiness	Avoid Systems	(ORAD)	On-Road Motor Vehicles		Development	No
		Avionics and					
		Subsystems: Software	ASTM F38.01, Unmanned	ASTM F3201-16, Standard Practice for Ensuring			
		Dependability and Approval	Aircraft Systems (UAS) -	Dependability of Software Used in Unmanned Aircraft Systems (UAS)			

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM WK65056, Revision of F3269 - 17 Standard Practice for Methods to Safely Bound Flight Behavior of Unmanned Aircraft Systems Containing Complex Functions		(Revision) In Development	Yes
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-178C, Software Considerations in Airborne Systems and Equipment Certification	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-248C, Supporting Information for DO-178C and DO-278A	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-330, Software Tool Qualification Considerations	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-331, Model-Based Development and Verification Supplement to DO-178C and DO-278A	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-332, Object Oriented Technology and Related Techniques Supplement to DO-178C and DO-278A	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	RTCA SC-205, Software Considerations in Aeronautical Systems	RTCA DO-333, Formal Methods Supplement to DO-178C and DO-278A	13-Dec-11	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	SAE ARINC	ARINC 667-2, Guidance for the Management of Field	1-Jul-17	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	SAE ARINC	SAE ARIR675, Guidance for the Management of Aircraft Support Data	26-Jun-17	Published	No
WG1	Airworthiness	Avionics and Subsystems: Software Dependability and Approval	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AS6518, Unmanned Systems (UxS) Control Segment (UCS) Architecture: UCS Architecture Model	20-Dec-16	Published	No
WG1	Airworthiness	Avionics and Subsystems: Crash Protected Airborne Recorder Systems (CPARS)	EUROCAE	EUROCAE ED-112A, Minimum Operational Performance Specification (MOPS) for Crash Protected Airborne Recorder Systems	Sep-13	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Avionics and Subsystems: Crash Protected Airborne Recorder Systems (CPARS) Avionics and	EUROCAE	EUROCAE ED-155, Minimum Operational Performance Specification (MOPS) for Lightweight Flight Recording System	Jul-09	Published	No
WG1	Airworthiness	Subsystems: Crash Protected Airborne Recorder Systems (CPARS)	SAE A-4 Aircraft Instruments	SAE AS8039A, Minimum Performance Standard General Aviation Flight Recorder	Feb-08	Published	No
WG1	Airworthiness	Avionics and Subsystems: Crash Protected Airborne Recorder Systems (CPARS) Avionics and	SAE Event Data Recorder	SAE J1698_201703, Event Data Recorder	Mar-17	Published	No
WG1	Airworthiness	Subsystems: Crash Protected Airborne Recorder Systems (CPARS)	SAE Industry Technologies Consortia	SAE ARIC757-6, Cockpit Voice Recorder (CVR)	Aug-15	Published	No
WG1	Airworthiness	Avionics and Subsystems: Crash Protected Airborne Recorder Systems (CPARS)	SAE Industry Technologies Consortia	SAE ARIC767-1, Enhanced Airborne Flight Recorder	May-17	Published	No
WG1	Airworthiness	Avionics and Subsystems: Crash Protected Airborne Recorder Systems (CPARS)	SAE Industry Technologies Consortia	SAE ARIS647A-1ERR1, Flight Recorder Electronic Documentation (FRED)	Jul-09	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK56374, New Practice for Aircraft Systems Information Security Protection		(New) In Development	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	ISO/TC 215 Health informatics	ISO 80001, Application of risk management for IT-networks incorporating medical devices	2010	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	RTCA SC-216, Aeronautical Systems Security	RTCA DO-326, Airworthiness Security Process Specification	2010	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	RTCA SC-216, Aeronautical Systems Security	RTCA DO-355, Information Security Guidance for Continued Airworthiness	2014	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	RTCA SC-216, Aeronautical Systems Security	RTCA DO-356, Airworthiness Security Methods and Considerations	2014	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AS6969, Data Dictionary for Quantities Used in Cyber Physical Systems	10-Jul-05	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE Vehicle Cybersecurity Systems Engineering Committee	SAE J3061 201601 Cybersecurity Guidebook for Cyber- Physical Vehicle Systems	14-Jan-16	Published	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE Vehicle Cybersecurity Systems Engineering Committee	SAE J3061_201601, Cybersecurity Guidebook for Cyber- Physical Vehicle Systems		(New) In Development	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE Vehicle Cybersecurity Systems Engineering Committee	SAE J3061-1 Automotive Cybersecurity Integrity Level (ACsIL)		(New) In Development	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE Vehicle Cybersecurity Systems Engineering Committee	SAE J3061-2 Security Testing Methods		(New) In Development	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	SAE Vehicle Cybersecurity Systems Engineering Committee	SAE J3061-3 Security Testing Tools		(New) In Development	No
WG1	Airworthiness	Avionics and subsystems: Cybersecurity	UL	UL 2900-1, Software Cybersecurity for Network Connectable Products, Part 1: General Requirements	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F37.20, Light Sport Aircraft - Airplane	ASTM F2840-14, Standard Practice for Design and Manufacture of Electric Propulsion Units for Light Sport <u>Aircraft</u>	2014	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F39.01, Aircraft Systems - Design, Alteration, and Certification of Electrical Systems	ASTM F2490-05(2013), Standard Guide for Aircraft Electrical Load and Power Source Capacity Analysis	2013	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F39.01, Aircraft Systems - Design, Alteration, and Certification of Electrical Systems	ASTM F2639-15, Standard Practice for Design, Alteration, and Certification of Aircraft Electrical Wiring Systems	2015	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F39.04, Aircraft Systems	ASTM F3238-17, Standard Specification for Design and Installation of an Infrared (IR) Searchlight System (USA)	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F39.04, Aircraft Systems	ASTM WK44921, New Practice for Continued Airworthiness of IR Filter System Installation_ ASTM WK44922, New Practice for the Operational Use of_		(New) In Development (New) In	No
WG1	Airworthiness	Electrical Systems	ASTM F39.04, Aircraft Systems	IR Filter Systems		Development	No
WG1	Airworthiness	Electrical Systems	Design, Alteration, and Certification of Electric Propulsion Systems	ASTM WK47374, New Specification for Design and Manufacture of Electric Propulsion Units for General Aviation Aircraft (Aeroplanes)		(New) In Development	No
WG1	Airworthiness	Electrical Systems	Design, Alteration, and Certification of Electric Propulsion Systems	ASTM WK56255, New Specification for Design of Electric Propulsion Energy Storage Systems for General Aviation <u>Aircraft</u>		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3061/F3061M-17, Standard Specification for Systems and Equipment in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3227/F3227M-17, Standard Specification for Environmental Systems in Small Aircraft	2017	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3228-17, Standard Specification for Flight Data and Voice Recording in Small Aircraft ASTM F3229/F3229M-17, Standard Practice for Static	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	Pressure System Tests in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3230-17, Standard Practice for Safety Assessment of Systems and Equipment in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3231/F3231M-17, Standard Specification for Electrical Systems in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3232/F3232M-17, Standard Specification for Flight Controls in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3233/F3233M-17, Standard Specification for Instrumentation in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3234/F3234M-17, Standard Specification for Exterior Lighting in Small Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3236-17, Standard Specification for High Intensity Radiated Field (HIRF) Protection in Small Aircraft ASTM F3309/F3309M-18, Standard Practice for Simplified	2017	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM F3309/F3309/F3309/F18, Standard Practice for Simplined Safety Assessment of Systems and Equipment in Small Aircraft ASTM F3316/F3316M-18, Standard Specification for	2018	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	Electrical Systems for Aircraft with Electric or Hybrid- Electric Propulsion	2018	Published	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK52829, New Practice for Simplified Safety Analysis of Systems & Equipment in Small Aircraft		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK55940, New Terminology for Boundary layer control systems in aerial vehicles		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK58700, New Specification for Electrical Systems for Aircraft with Electric or Hybrid-Electric Propulsion		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK60748, New Guide for Application of Systems- Theoretic Process Analysis to Aircraft		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK61549, New Specification for Indirect Flight Control Systems in Aircraft		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK61550, New Specification for Simplified High Intensity Radiated Field (HIRF) Protection in Level 1, Level 2, and Level 3 Aircraft		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK62762, System Level Verification of Software and Airborne Electronic Hardware on Small Aircraft		(New) In Development	No
WG1	Airworthiness	Electrical Systems	ASTM F44.50, General Aviation - Systems and Equipment	ASTM WK63976, Establishing the Net Safety Benefit of Aircraft Systems		(New) In Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	ISO/TC 20/SC 1, Aerospace electrical requirements	ISO 1540:2006, Aerospace - Characteristics of aircraft electrical systems	2006	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20 Aircraft Lighting	SAE ARP4087D, Wing Inspection Lights - Design Criteria		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE A-20 Aircraft Lighting	SAE ARP6336, Lighting Applications for Unmanned Aircraft Systems (UAS)		(New) In Development	Yes
WG1	Airworthiness	Electrical Systems	SAE A-20 Aircraft Lighting	SAE AS8037D, Minimum Performance Standard for Aircraft Position Lights		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AIR1106B, Some Factors Affecting Visibility of Aircraft Navigation and Anticollision Lights	2018	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AIR1276B, Aircraft Flashtube Anticollision Lighting Systems	2018	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AIR5689B, Light Transmitting Glass Covers for Exterior Aircraft Lighting	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP4087C, Wing Inspection Lights - Design Criteria	2011	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP4392, Lighting, Aircraft Exterior, Night Vision Imaging System (NVIS) Compatible	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP5029A, Measurement Procedures for Strobe Anticollision Lights	2014	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP5637A, Design and Maintenance Considerations for Aircraft Exterior Lighting Plastic Lenses	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP5647A, High Intensity Discharge Light Sources	2014	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP5825A, Design Requirements and Test Procedures for Dual Mode Exterior Lights	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP6402A, LED Landing, Taxiing, Runway Turnoff, and Recognition Lights	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP693E, Landing and Taxiing Lights - Design Criteria for Installation	2018	Published	No
		Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP694C, Aerial Refueling Lights - Design Criteria	2015	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE ARP991C, Position and Anticollision Lights - Fixed- Wing Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AS25050B, Colors, Aeronautical Lights and Lighting Equipment, General Requirements For	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AS8017D, Minimum Performance Standard for Anticollision Light Systems	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-20B Exterior Lighting	SAE AS8037C, Minimum Performance Standard for Aircraft Position Lights	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE A-6 Aerospace Actuation, Control and Fluid Power Systems	SAE ARP5724, Aerospace - Testing of Electromechanical Actuators, General Guidelines For	4-Oct-13	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1147A, Electromagnetic Interference on Aircraft from Jet Engine Charging	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1209, Construction and Calibration of Parallel Plate Transmission Line for Electromagnetic Interference Susceptibility Testing	2004	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1221, Electromagnetic Compatibility (EMC) System Design Checklist	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1255, Spectrum Analyzers for Electromagnetic Interference Measurements	2009	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1394A, Cabling Guidelines for Electromagnetic Compatibility	2009	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1404, DC Resistivity Vs RF Impedance of EMI Gaskets	2009	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1423, Electromagnetic Compatibility on Gas Turbine Engines for Aircraft Propulsion	2008	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1425A, Methods of Achieving Electromagnetic Compatibility of Gas Turbine Engine Accessories, for Self- Propelled Vehicles	2009	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR1700A, Upper Frequency Measurement Boundary for Evaluation of Shielding Effectiveness in Cylindrical Systems	2009	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE AIR6236A, In-House Verification of EMI Test Equipment	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1172, Filters, Conventional, Electromagnetic Interference Reduction, General Specification For	1972	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1173A, Test Procedure to Measure the R.F. Shielding Characteristics of E.M.I. Gaskets	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1267, Electromagnetic Interference Measurement. Impulse Generators; Standard Calibration Requirements and Techniques	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1481A, Corrosion Control and Electrical Conductivity in Enclosure Design	2004	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1705C, Coaxial Test Procedure to Measure the RF Shielding Characteristics of EMI Gasket Materials	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1870A, Aerospace Systems Electrical Bonding and Grounding for Electromagnetic Compatibility and Safety	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	SAE ARP1972A, Recommended Measurement Practices and Procedures for EMC Testing SAE ARP1242A Electromagnetic Competibility Control	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3) SAE AE-4 Electromagnetic	SAE ARP4242A, Electromagnetic Compatibility Control Requirements Systems SAE ARP4244A, Recommended Insertion Loss Test	2013	Published	No
WG1	Airworthiness	Electrical Systems	Environmental Effects (E3) SAE AE-4 Electromagnetic	Methods for EMI Power Line Filters SAE ARP5583A, Guide to Certification of Aircraft in a High-	2012	Published	No
WG1	Airworthiness	Electrical Systems	Environmental Effects (E3)	Intensity Radiated Field (HIRF) Environment SAE ARP5889, Alternative (Ecological) Method for	2010	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3) SAE AE-4 Electromagnetic	Measuring Electronic Product Immunity to External Electromagnetic Fields SAE ARP60493, Guide to Civil Aircraft Electromagnetic	2008	Published	No
WG1	Airworthiness	Electrical Systems	Environmental Effects (E3)	Compatibility (EMC) SAE ARP6248, Stripline Test Method to Characterize the	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3)	Shielding Effectiveness of Conductive EMI Gaskets up to 40 GHz	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-4 Electromagnetic Environmental Effects (E3) SAE AE-4 Electromagnetic	SAE ARP935B, Control Plan/Technical Construction File SAE ARP936B, Capacitor, 10 Microfarad for EMI	2013	Published	No
WG1	Airworthiness	Electrical Systems	Environmental Effects (E3) SAE AE-4 Electromagnetic	Measurements SAE ARP958D, Electromagnetic Interference Measurement	2013	Published	No
		Electrical Systems	Environmental Effects (E3) SAE AE-4 Electromagnetic	Antennas; Standard Calibration Method	2003	Published	No
		Electrical Systems Electrical Systems	Environmental Effects (E3) SAE AE-7 Aerospace Electrical Power and Equipment	SAE AS6451A, Shields, Protective, Aircraft and Missiles SAE AS35091A, Receptacles, Electric, Aircraft Storage Battery	2013	Published Published	No No
		Electrical Systems	SAE AE-7 Aerospace Electrical Power and Equipment	SAE AS81099A, Electric Devices, Simple, General Specification for	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7 Aerospace Electrical Power and Equipment	SAE AIR6511, Safety Consideration for a 48/60 VDC Aircraft distribution system		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7A Generators and Controls Motors and Magnetic Devices	SAE AIR34B, Penalties in Performance of Three-Phase, Four-Wire, 400-Cycle Motors Causes By the Opening of One Phase	2017	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-7A Generators and				
	A image with image a	Electrical Overterro	Controls Motors and Magnetic	CAE AIDSETA Cread Variation of D.C. Maters	2017	Dubliched	Nia
WG1	Airworthiness	Electrical Systems		SAE AIR857A, Speed Variation of D-C Motors	2017	Published	No
			SAE AE-7A Generators and	SAE ARP4255A, Electrical Actuation Systems for			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	Aerospace and Other Applications	2012	Published	No
001	Airworthiness	Lieutida Oystemis	SAE AE-7A Generators and	Aerospace and Other Applications	2012	i ublished	INO
			Controls Motors and Magnetic				
WG1	Airworthiness	Electrical Systems	Devices	SAE ARP497B, Precision Control Motors - 400 Cycles	2017	Published	No
			SAE AE-7A Generators and		2011	1 ubliched	110
			Controls Motors and Magnetic				
WG1	Airworthiness	Electrical Systems	Devices	SAE ARP826A, Electrical Computing Resolvers	2017	Published	No
_			SAE AE-7A Generators and		-		_
			Controls Motors and Magnetic	SAE AS20708/131B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	15CX4F	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/139B, SYNCHRO CONTROL			
WG1	Airworthiness	Electrical Systems	Devices	TRANSMITTER, TYPE 31CX6a	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/14B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	<u>15CX4D</u>	2016	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/15B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	<u>15CT4C</u>	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/16B, Synchro, Control Differential			
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 15CDX4D	2017	Published	No
			SAE AE-7A Generators and				
	A		Controls Motors and Magnetic	SAE AS20708/17B, Synchro, Torque Differential	0017		
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 15TDX4C	2017	Published	No
			SAE AE-7A Generators and	CAE AC20708/40D Currenter Terrore Desciner Terroreitter			
WC1	Airworthingoo	Electrical Systems	Controls Motors and Magnetic	SAE AS20708/19B, Synchro, Torque Receiver Transmitter, Type 15TRX4A	2016	Published	No
WG1	Airworthiness	Electrical Systems			2016	Published	INU
			SAE AE-7A Generators and	SAE AS20708/1B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	<u>11CT4E</u>	2016	Published	No
001	Airworthiness	Lieutida Oystemis	SAE AE-7A Generators and		2010	i ublished	INO
			Controls Motors and Magnetic	SAE AS20708/20B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	15CDX6C	2016	Published	No
			SAE AE-7A Generators and		2010	1 ubliched	110
			Controls Motors and Magnetic	SAE AS20708/21B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	15CT6D	2016	Published	No
-		,	SAE AE-7A Generators and		-		-
			Controls Motors and Magnetic	SAE AS20708/22B, Synchro, Control Differential			
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 15CDX6C	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/23B, Synchro, Torque Receiver Transmitter,			
WG1	Airworthiness	Electrical Systems	Devices	Type 15TRX6A	2016	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-7A Generators and				
	A		Controls Motors and Magnetic	SAE AS20708/25B, Synchro, Control Transformer, Type	0017		
WG1	Airworthiness	Electrical Systems	Devices	<u>16CTB4B</u>	2017	Published	No
			SAE AE-7A Generators and				
WC1	Ainworthingood	Electrical Systems	Controls Motors and Magnetic	SAE AS20708/28B, Synchro, Control Transmitter, Type	2016	Dublished	No
WG1	Airworthiness	Electrical Systems		<u>18CX4D</u>	2016	Published	No
			SAE AE-7A Generators and	SAE AS20708/29B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic	18CT4C	2016	Published	No
WGI	Airwortriiness	Lieundai Systems	Devices SAE AE-7A Generators and	100140	2010	Fublished	NU
				SAE AS20708/2B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	11CX4E	2016	Published	No
001	Airwortriiness	Lieutida Oysteriis	SAE AE-7A Generators and		2010	i ublished	NO
				SAE AS20708/30B, Synchro, Control Differential			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	Transmitter, Type 18CDX4C	2016	Published	No
001	Airworthiness	Lieutida Oystemis	SAE AE-7A Generators and	Transmitter, Type 100D/40	2010	i ublished	
				SAE AS20708/31B, Synchro, Torque Differential			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	Transmitter, Type 18TDX4C	2017	Published	No
***	Air worthiness	Electrical Oysterns	SAE AE-7A Generators and		2011	1 ublished	
			Controls Motors and Magnetic	SAE AS20708/32B. Synchro, Torque Receiver Transmitter.			
WG1	Airworthiness	Electrical Systems	Devices	Type 18TRX4A	2016	Published	No
1001	Airworthiness	Electrical Oysterns	SAE AE-7A Generators and		2010	1 ublished	
			Controls Motors and Magnetic	SAE AS20708/33B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	18CX6C	2016	Published	No
			SAE AE-7A Generators and		2010	1 abilottoa	110
			Controls Motors and Magnetic	SAE AS20708/34B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	18CT6D	2016	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/35B, Synchro, Torque Receiver Transmitter,			
WG1	Airworthiness	Electrical Systems	Devices	Type 18TRX6B	2016	Published	No
_			SAE AE-7A Generators and				-
			Controls Motors and Magnetic	SAE AS20708/36B, Synchro, Control Differential			
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 18CDX6D	2016	Published	No
		,	SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/39C, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	19CTB4B	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/3B, Synchro, Torque Receiver, Type			
WG1	Airworthiness	Electrical Systems	Devices	11TR4C	2016	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/45B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	23CX4D	2016	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/46B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	<u>23CT4C</u>	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/47B, Synchro, Control Differential			
	Airworthiness	Electrical Systems	Devices	Transmitter, Type 23CDX4C	2017	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-7A Generators and				
	A im	Electrical Oracteria	Controls Motors and Magnetic	SAE AS20708/48B, Synchro, Torque Differential	0047	Dublished	Nie
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 23TDX4C	2017	Published	No
			SAE AE-7A Generators and	OAE A000700/40B, Orachas, Differential Descriptor, Trans			
		Electrical Overterroe	Controls Motors and Magnetic	SAE AS20708/49B, Synchro, Differential Receiver, Type	2017	Dublished	Nie
WG1	Airworthiness	Electrical Systems	Devices	23TDR4B	2017	Published	No
			SAE AE-7A Generators and	CAE A \$20709/4P. Synchro Torque Transmitter Type			
	Ainworthingoog	Electrical Systems	Controls Motors and Magnetic	SAE AS20708/4B, Synchro, Torque Transmitter, Type 11TX4C	2016	Published	No
WG1	Airworthiness	Electrical Systems	Devices	<u>111,740</u>	2016	Published	INO
			SAE AE-7A Generators and	SAE AS20708/500B. Synchro. Torque Receiver. Type 26V-			
WG1	Ainworthinggo	Electrical Systems	Controls Motors and Magnetic	10TR4	2017	Dublished	No
WGI	Airworthiness	Electrical Systems	Devices	<u>101R4</u>	2017	Published	INO
			SAE AE-7A Generators and	SAE AS20708/50B, Synchro, Torque Receiver Transmitter,			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic	Type 23TRX4A	2017	Published	No
WGI	Airwortniness	Electrical Systems		Type 23TRA4A	2017	Published	INO
			SAE AE-7A Generators and	SAE AS20708/52B, Synchro, Control Transmitter, Type			
WC1	Ainworthingso	Electrical Systems	Controls Motors and Magnetic	23CX6D	2017	Published	No
WG1	Airworthiness	Electrical Systems	Devices SAE AE-7A Generators and		2017	Published	INO
				SAE AS20708/53B, Synchro, Control Transformer, Type			
WC1	Ainworthingso	Electrical Systems	Controls Motors and Magnetic	23CT6D	2017	Published	No
WG1	Airworthiness	Electrical Systems	Devices	230100	2017	Published	INO
			SAE AE-7A Generators and	SAE AS20708/54B, Synchro, Control Differential			
MC1	Ainworthinggo	Electrical Systems	Controls Motors and Magnetic	Transmitter, Type 23CDX6C	2017	Dublished	No
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 23CDX6C	2017	Published	INO
			SAE AE-7A Generators and	SAE AS20708/55B, Synchro, Torque Differential			
	Ainworthingoog	Electrical Systems	Controls Motors and Magnetic	Transmitter, Type 23TDX6C	2017	Published	No
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 231DX6C	2017	Published	No
			SAE AE-7A Generators and	CAE AC20700/ECD Currebre Terring Desciner Transmitter			
		Electrical Overterro	Controls Motors and Magnetic	SAE AS20708/56B, Synchro, Torque Receiver Transmitter,	2017	Dublished	Nie
WG1	Airworthiness	Electrical Systems	Devices	Type 23TRX6B	2017	Published	No
			SAE AE-7A Generators and				
	A improve with the second	Electrical Orietana	Controls Motors and Magnetic	SAE AS20708/5B, Synchro, Torque Receiver, Type 26V-	0010	Dublished	NIa
WG1	Airworthiness	Electrical Systems	Devices	<u>11TR4C</u>	2016	Published	No
			SAE AE-7A Generators and	CAE AC20700/C2D Currebre Terring Descriver Transmitter			
	A improve with the second	Electrical Orietana	Controls Motors and Magnetic	SAE AS20708/62B, Synchro, Torque Receiver Transmitter,	0047	Dublished	NIa
WG1	Airworthiness	Electrical Systems	Devices	Type 31TRX4A	2017	Published	No
			SAE AE-7A Generators and				
	A improve with the second	Electrical Orietana	Controls Motors and Magnetic	SAE AS20708/66B, Synchro, Torque Receiver Transmitter,	0047	Dublished	NIa
WG1	Airworthiness	Electrical Systems	Devices	Type 31TRX6A	2017	Published	No
			SAE AE-7A Generators and	CAE AC20700/67D Supphro Terrus Differential Descination			
	۸ :	Electrical Output	Controls Motors and Magnetic	SAE AS20708/67B, Synchro, Torque Differential Receiver,	0047	Dublished	NI-
WG1	Airworthiness	Electrical Systems	Devices	Type 31TDR6B	2017	Published	No
			SAE AE-7A Generators and				
	A		Controls Motors and Magnetic	SAE AS20708/68B, Synchro, Torque Differential	0017		
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 31TDX6C	2017	Published	No
			SAE AE-7A Generators and				
	A		Controls Motors and Magnetic	SAE AS20708/6B, Synchro, Torque Transmitter, Type 26V-	0010	Dublin	
WG1	Airworthiness	Electrical Systems	Devices	<u>11TX4C</u>	2016	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-7A Generators and				
		Electrical Orietana	Controls Motors and Magnetic	SAE AS20708/70B, Synchro, Torque Receiver Transmitter,	0047	Dublished	NI-
WG1	Airworthiness	Electrical Systems	Devices	Type 37TRX4A	2017	Published	No
			SAE AE-7A Generators and	SAE AS20708/74B, Synchro, Torque Receiver Transmitter,			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic	Type 37TRX6A	2017	Published	No
001	Airworthiness	Liectrical Oysterns	Devices SAE AE-7A Generators and		2017	i ublished	NO
				SAE AS20708/76B, Synchro, Torque Differential			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	Transmitter, Type 37TDX6A	2017	Published	No
	/ 11 WOI 11 11 1000		SAE AE-7A Generators and		2011	1 abiiorica	110
			Controls Motors and Magnetic	SAE AS20708/78B, Synchro, Control Transmitter, Type			
WG1	Airworthiness	Electrical Systems	Devices	26V-08CX4C	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/79B, Synchro, Control Transformer, Type			
WG1	Airworthiness	Electrical Systems	Devices	26V-08CT4C	2017	Published	No
		,	SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/7B, Synchro, Control Transformer, Type 26V-			
WG1	Airworthiness	Electrical Systems	Devices	11CT4D	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/80B, Synchro, Torque Receiver Transmitter,			
WG1	Airworthiness	Electrical Systems	Devices	Type 26V-08CDX4C	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/81B, Synchro, Control Differential			
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 11CDX4B	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE AS20708/8B, Synchro, Control Transmitter, Type 26V-			
WG1	Airworthiness	Electrical Systems	Devices	<u>11CX4C</u>	2016	Published	No
			SAE AE-7A Generators and				
	A		Controls Motors and Magnetic		0047		
WG1	Airworthiness	Electrical Systems	Devices	SAE AS20708/94C, Synchro, 60 and 400 Hz, Size 23	2017	Published	No
			SAE AE-7A Generators and	OAE A000700/0D Overshee Osertest Differential			
MOA	A im use with im a sec	Electrical Overterna	Controls Motors and Magnetic	SAE AS20708/9B, Synchro, Control Differential	2010	Dublished	Nie
WG1	Airworthiness	Electrical Systems	Devices	Transmitter, Type 26V-11CDX4C	2016	Published	No
			SAE AE-7A Generators and				
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic	SAE AS20708B, Synchros, General Specification For	2014	Published	No
WGI	Allworthiness	Electrical Systems	Devices	SAE AS20708B, Synchios, General Specification For	2014	Fublished	INO
			SAE AE-7A Generators and Controls Motors and Magnetic	SAE AS8011B, Minimum Performance Standards for A-C			
WG1	Airworthiness	Electrical Systems	Controls Motors and Magnetic Devices	Generators and Associated Regulators	2011	Published	No
			SAE AE-7A Generators and	SAE AS8020, Minimum Performance Standards for Engine	2011	i doligited	110
			Controls Motors and Magnetic	Driven D.C. Generators/Starter-Generators and Associated			
WG1	Airworthiness	Electrical Systems	Devices	Voltage Regulators	2017	Published	No
			SAE AE-7A Generators and				
			Controls Motors and Magnetic	SAE ARP6505, Electrical Load Characterization and ELA		(New) In	
WG1	Airworthiness	Electrical Systems	Devices	Standardization		Development	No
			SAE AE-7A Generators and	SAE AS8441, Minimum Performance Standard for			
			Controls Motors and Magnetic	Permanent-Magnet Propulsion Motors and Associated		(New) In	
	Airworthiness	Electrical Systems	2 5 5.5	Variable-Speed Drives		Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AIR5561, Lithium Battery Powered Portable Electronic Devices	2013	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AIR5709A, SAE AE-7 High Temperature Components Survey, 2005	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE ARP5584, Document for Electric Power Management	2011	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS4361A, Minimum Performance Standards for Aerospace Electric Power Converters	2011	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS4805, Solid State Power Controller, General Standard For	2007	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS5625A, Minimum Performance Standards for Static Electric Power Frequency Converters	2014	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS6349, Minimum Performance Standard (MPS) for an Airborne AC to AC Converter	2016	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS8023B, Minimum Performance Standards for Static Electric Power Inverters	2011	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS8033, Nickel Cadmium Vented Rechargeable Aircraft Batteries (Non-Sealed, Maintainable Type)	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AIR6343, Design and Development of Rechargeable Aerospace Lithium Battery Systems		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AIR6897, Lithium Battery Systems – Prognostics and Health Management		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE ARP5584A, Document for Electric Power Management		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS4805A, Solid State Power Controller, General Standard For		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7B Power Management, Distribution and Storage	SAE AS6087, ARC Fault Interrupter, 270 VDC		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR1213A, Radioisotope Power Systems	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR6127, Managing Higher Voltages in Aerospace Electrical Systems	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR6139, Ways of Dealing with Power Regeneration onto an Aircraft Electrical Power System Bus	2014	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR999A, Cryogenically Fueled Dynamic Power Systems	2011	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE ARP4729A, Document for 270 Voltage Direct Current (270 V DC) System	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AS1212A, Electric Power, Aircraft, Characteristics and Utilization of	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AS1831A, Electrical Power, 270 V DC, Aircraft, Characteristics and Utilization of	2017	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AS5698, Space Power Standard	2018	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR6198, Considerations for future more electric aircraft electric power systems		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AIR6540, Fundamentals in selecting Wire Sizes in Aerospace Applications		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7C Systems	SAE AS5698A, Space Power Standard		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-7M Aerospace Model Based Engineering	SAE AIR6326, Aircraft Electrical Power Systems, Modeling and Simulation, Definitions	2015	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7M Aerospace Model Based Engineering	SAE ARP6538, Dynamic Modeling of Aerospace Systems (DyMAS)	2018	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-7M Aerospace Model Based Engineering	SAE AIR6387, Aircraft electrical power systems. Modeling and simulation. Validation and verification methods.		(New) In Development	No
WG1	Airworthiness	Electrical Systems	SAE AE-8A, Elec Wiring and Fiber Optic Interconnect Sys Install	SAE AIR4465, Design and Handling Guide Radio Frequency Absorptive Type Wire and Cables (Filter Line, MIL-C-85485)	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-8A, Elec Wiring and Fiber Optic Interconnect Sys Install	SAE AIR5468B, Ultraviolet (UV) Lasers for Aerospace Wire Marking	2012	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-8A, Elec Wiring and Fiber Optic Interconnect Sys Install	SAE AIR5558, Ultraviolet (UV) Laser Marking Performance of Aerospace Wire Constructions	2015	Published	No
WG1	Airworthiness	Electrical Systems	SAE AE-8A, Elec Wiring and Fiber Optic Interconnect Sys Install SAE AE-8A, Elec Wiring and	SAE AIR5575A, Hot Stamp Wire Marking Concerns for Aerospace Vehicle Applications	2017	Published	No
WG1	Airworthiness	Electrical Systems	Fiber Optic Interconnect Sys	SAE AIR5717, Mitigating Wire Insulation Damage During Processing and Handling	2014	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys				
WG1	Airworthiness	Electrical Systems	Install	SAE ARP4404C, Aircraft Electrical Installations	2013	Published	No
			SAE AE-8A, Elec Wiring and	SAE ARP5062A, Recommended Test Fluids for Electrical			
	A		Fiber Optic Interconnect Sys	Components Used on Aircraft Exterior or for Ground	0010		
WG1	Airworthiness	Electrical Systems		Support Near Aircraft	2012	Published	No
			SAE AE-8A, Elec Wiring and	CAE ADDECCOD, Quidelines for Mire Identification Marking			
	A immenth in a co	Electrical Overterna	Fiber Optic Interconnect Sys	SAE ARP5369B, Guidelines for Wire Identification Marking Using the Hot Stamp Process	2010	Dublished	Nia
WG1	Airworthiness	Electrical Systems	Install SAE AE-8A, Elec Wiring and	Using the Hot Stamp Process	2016	Published	No
			Fiber Optic Interconnect Sys	SAE ARP5607A, Legibility of Print on Aerospace Wires and			
WG1	Airworthiness	Electrical Systems	Install	Cables	2013	Published	No
WGI	Airwortniness	Electrical Systems	SAE AE-8A, Elec Wiring and		2013	Fublisheu	NU
			Fiber Optic Interconnect Sys	SAE ARP5614, Guidelines for Harness Critical Clamp			
WG1	Airworthiness	Electrical Systems	Install	Locator Marker Installation on Electrical Cable Assemblies	2014	Published	No
WGI	Allworthiness	Lieutical Systems	SAE AE-8A, Elec Wiring and	ECCALOF MARKET INSTALLATION ON Electrical Cable Assemblies	2014	Fublished	INU
			Fiber Optic Interconnect Sys				
WG1	Airworthiness	Electrical Systems	Install	SAE ARP6167, Etching of Fluoropolymer Insulations	2013	Published	No
101	All Worthiness	Lieutical Oysterns	SAE AE-8A, Elec Wiring and	SAL ANTOTOT, Etching of Theoropolymer insulations	2013	T ublished	NO
			Fiber Optic Interconnect Sys				
WG1	Airworthiness	Electrical Systems	Install	SAE ARP6216, EWIS Wiring Insulation Breakdown Testing	2017	Published	No
1001	Airworthiness		SAE AE-8A, Elec Wiring and	OAL ART 0210, EVIO WINIG Insulation Dreakdown resting	2011	T ublished	110
			Fiber Optic Interconnect Sys	SAE ARP81490A, Transmission Lines, Transverse			
WG1	Airworthiness	Electrical Systems	Install	Electromagnetic Mode	2016	Published	No
			SAE AE-8A, Elec Wiring and		2010	1 donoriod	110
			Fiber Optic Interconnect Sys	SAE AS21378A, Plugs And Cable Assemblies, External			
WG1	Airworthiness	Electrical Systems	Install	Power, Aircraft, 230/400 VOLT, 400 Hertz	2016	Published	No
			SAE AE-8A, Elec Wiring and		2010		
			Fiber Optic Interconnect Sys	SAE AS24122, Wiring Harness - External Power, 115 Volt			
WG1	Airworthiness	Electrical Systems	Install	AC, Single Phase	2009	Published	No
_			SAE AE-8A, Elec Wiring and				-
			Fiber Optic Interconnect Sys	SAE AS24208A, Cable and Plug Assembly, External Power			
WG1	Airworthiness	Electrical Systems	Install	115/200 VOLTS 3 Phase, Single Point Refueling	2017	Published	No
		,	SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys	SAE AS25019A, Cable Assembly, External Electric Power,			
WG1	Airworthiness	Electrical Systems	Install	Aircraft, 28 VOLT DC, Jet Starting	2016	Published	No
		,	SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys	SAE AS25064A, Conduit, Flexible, Radio Frequency			
WG1	Airworthiness	Electrical Systems	Install	Shielding	2016	Published	No
		,	SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys	SAE AS25065A, Ferrule, Flexible Conduit, Radio			
WG1	Airworthiness	Electrical Systems	Install	Frequency Shielding	2016	Published	No
	İ		SAE AE-8A, Elec Wiring and				1
			Fiber Optic Interconnect Sys	SAE AS25066, Conduit Assembly, Nut, Flexible, Radio			
WG1	Airworthiness	Electrical Systems	Install	Frequency Shielding	2016	Published	No
	İ		SAE AE-8A, Elec Wiring and				1
			Fiber Optic Interconnect Sys	SAE AS25067A, Conduit Assembly, Flexible, Radio			
	Airworthiness	Electrical Systems	Install	Frequency Shielding	2016	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			SAE AE-8A, Elec Wiring and	SAE AS4461C, Assembly and Soldering Criteria for High	_		
			Fiber Optic Interconnect Sys	Quality/High Reliability Soldering Wire and Cable			
WG1	Airworthiness	Electrical Systems	Install	Termination in Aerospace Vehicles	2016	Published	No
			SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys				
WG1	Airworthiness	Electrical Systems	Install	SAE AS50881F, Wiring Aerospace Vehicle	2015	Published	No
			SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys				
WG1	Airworthiness	Electrical Systems	Install	SAE AS5649, Wire and Cable Marking Process, UV Laser	2012	Published	No
			SAE AE-8A, Elec Wiring and				
			Fiber Optic Interconnect Sys		0011		
WG1	Airworthiness	Electrical Systems	Install	SAE AS5942, Marking of Electrical Insulating Materials	2014	Published	No
			SAE AE-8A, Elec Wiring and	SAE AS7974/2A, Cable Assembly, External Power, Aircraft			
	A		Fiber Optic Interconnect Sys	115/200 VOLT, 400 Hertz Power Distribution Flight Line (for	0010		
WG1	Airworthiness	Electrical Systems		<u>A/E 24A-166A)</u>	2018	Published	No
			SAE AE-8A, Elec Wiring and				
	A		Fiber Optic Interconnect Sys	SAE AS7974/4A, Cable Assembly, External Electric Power,	0010		
WG1	Airworthiness	Electrical Systems	Install SAE AE-8A, Elec Wiring and	Aircraft, Single-Jacketed 115/200 VOLT, 400 Hertz	2013	Published	No
			. .	OAE A07074/5A, Oshla Assessible Estamol Electric Deven			
	A im	Electrical Oracteria	Fiber Optic Interconnect Sys	SAE AS7974/5A, Cable Assembly, External Electric Power,	0047	Dublished	NI-
WG1	Airworthiness	Electrical Systems		Aircraft, Single-Jacketed 270 VDC, 90 KW	2017	Published	No
			SAE AE-8A, Elec Wiring and	SAE AS7974A, Cable Assemblies and Attachable Plugs,			
	A im womth in a so	Electrical Overterroe	Fiber Optic Interconnect Sys	External Electrical Power, Aircraft, General Specification	2010	Published	Nia
WG1	Airworthiness	Electrical Systems	Install	For	2010	Published	No
			SAE AE-8A, Elec Wiring and	CAE ACOCCAA Cable Accomply: External Electric Dower			
WC1	Airworthingoo	Electrical Systems	Fiber Optic Interconnect Sys	SAE AS90328A, Cable Assembly, External Electric Power, Aircraft 115/200 VOLT, 400 Hertz	2016	Dublished	No
WG1	Airworthiness	Electrical Systems	Install	Aliciali 115/200 VOLT, 400 Heliz	2016	Published	No
			SAE AE-8A, Elec Wiring and	SAE AS90347A, Cable Assembly, External Electric Power,			
WC1	Airworthingen	Electrical Systems	Fiber Optic Interconnect Sys	Aircraft 28 VOLT DC, Operating Power	2016	Published	No
WG1	Airworthiness	Electrical Systems	Install	Aircrait 26 VOLT DC, Operating Power	2016	Published	No
			SAE AE-8A, Elec Wiring and			(Dovision) In	
WG1	Airworthiness	Electrical Systems	Fiber Optic Interconnect Sys	SAE AS50881G, Wiring Aerospace Vehicle		(Revision) In Development	No
WGI	Airwortniness	Electrical Systems	Install SAE AE-8A, Elec Wiring and	SAE ASSUGOTO, WITHING ACTOSPACE VEHICLE		Development	INU
			Fiber Optic Interconnect Sys			(New) In	
WG1	Airworthiness	Electrical Systems	Install	SAE AIR6808, Aerospace Vehicle Wiring, Lessons Learned		Development	No
WGI	Airwortniness	Electrical Systems	SAE AE-8A, Elec Wiring and	SAE AIRoboo, Aelospace vehicle winnig, Lesson's Learned		Development	INU
			Fiber Optic Interconnect Sys			(New) In	
WG1	Airworthiness	Electrical Systems	Install	SAE AIR6820, Electrical Wiring Fuel Compatibility		Development	No
WGI	Airworthiness	Lieundai Systems	SAE AE-8A, Elec Wiring and	SAL AIR0620, Electrical Willing I del Compatibility		Development	INU
			Fiber Optic Interconnect Sys	SAE ARP6881, Guidelines for the Use and Installation of		(New) In	
WG1	Airworthiness	Electrical Systems	Install	Bonded Cable Harness Supports		Development	No
wGr			SAE AE-8A, Elec Wiring and			Development	INU
			Fiber Optic Interconnect Sys			(New) In	
WG1	Airworthiness	Electrical Systems	Install	SAE AS50881G, Wiring Aerospace Vehicle		Development	No
wGr			SAE AE-8A, Elec Wiring and	ONE ADDUDITO, WITHING ACTOSPACE VEHICLE		Development	INU
			Fiber Optic Interconnect Sys			(New) In	
WG1	Airworthiness	Electrical Systems	Install	SAE AS5649A, Wire and Cable Marking Process, UV Laser		Development	No
wG1		Licenical Systems	moran	One hours, whe and cable Marking Flocess, UV Laser		Development	INU

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Electrical Systems	SAE AE-9 Electric Materials	SAE AIR7219, Degradation in electrical materials		(New) In Development	No
	/		SAE EUROCAE Fuel Cell Task	SAE AIR6464, EUROCAE/SAE WG80/AE-7AFC Hydrogen		Bevelopment	110
WG1	Airworthiness	Electrical Systems	Group	Fuel Cells Aircraft Fuel Cell Safety Guidelines	2013	Published	No
			SAE EUROCAE Fuel Cell Task	SAE AS6858, Installation of Fuel Cell Systems in Large	2010	i ubiloriou	110
WG1	Airworthiness	Electrical Systems	Group	Civil Aircraft	2017	Published	No
WG1	Airworthiness	Electrical Systems	UL	UL 3030, Standard for Unmanned Aircraft Systems	2018	Published	Yes
		Power Sources and	ASTM F37.70, Light Sport	ASTM F2506-13, Standard Specification for Design and	2010	i ubiloriou	100
WG1	Airworthiness	Propulsion Systems	Aircraft - Cross Cutting	Testing of Light Sport Aircraft Propellers	2013	Published	No
				ASTM F2538-07a(2010), Standard Practice for Design and			
		Power Sources and	ASTM F37.70, Light Sport	Manufacture of Reciprocating Compression Ignition			
WG1	Airworthiness	Propulsion Systems	Aircraft - Cross Cutting	Engines for Light Sport Aircraft	2010	Published	No
			ASTM F38.01, Unmanned				
		Power Sources and	Aircraft Systems (UAS) -	ASTM F3005-14a Standard Specification for Batteries for			
WG1	Airworthiness	Propulsion Systems	Airworthiness	Use in Small Unmanned Aircraft Systems (sUAS)	2014	Published	Yes
			ASTM F38.01, Unmanned	ASTM WK56160, Revision of F3005 - 14a Standard			
		Power Sources and	Aircraft Systems (UAS) -	Specification for Batteries for Use in Small Unmanned		(Revision) In	
WG1	Airworthiness	Propulsion Systems	Airworthiness	Aircraft Systems (sUAS)		Development	Yes
			ASTM F38.01, Unmanned				
		Power Sources and	Aircraft Systems (UAS) -	ASTM WK60937, Design of Fuel Cells for Use in		(New) In	
WG1	Airworthiness	Propulsion Systems	Airworthiness	Unmanned Aircraft Systems (UAS)		Development	Yes
		Power Sources and	ASTM F44.50, General Aviation -	ASTM F3235-17a, Standard Specification for Aircraft			
WG1	Airworthiness	Propulsion Systems	Systems and Equipment	Storage Batteries	2017	Published	No
		Power Sources and					
WG1	Airworthiness	Propulsion Systems	SAE A-6C4 Power Sources	SAE AIR744C, Aerospace Auxiliary Power Sources	2015	Published	No
				AS8028, Powerplant Fire Detection Instruments Thermal &			
		Power Sources and		Flame Contact Types (Reciprocating and Turbine Engine			
WG1	Airworthiness	Propulsion Systems	SAE AS8036 Update WG	Powered Aircraft)	1991	Published	No
				Ground support equipment (preheaters, starters, fuel			
				pumps, fuel couplings, fuel mixing, fuel filters, preflight			
				weight/balance, bore-sighting of payload, storage			
		Power Sources and	SAE E-39 Unmanned Aircraft	containers, alignment hardware, wheel chocks, "remove			
WG1	Airworthiness	Propulsion Systems	Propulsion	before flight" items, electronic and software links)		Planned WIP	Yes
	A	Power Sources and	SAE E-39 Unmanned Aircraft				
WG1	Airworthiness	Propulsion Systems	Propulsion	Propeller hubs		Planned WIP	Yes
	A im	Power Sources and	SAE E-39 Unmanned Aircraft	Descelles leferencière. Descel		Discussion	Maa
WG1	Airworthiness	Propulsion Systems	Propulsion	Propeller Information Report		Planned WIP	Yes
	A im womth in a so	Power Sources and	SAE E-39 Unmanned Aircraft	LIAC Drenulaion Sustem Categorization		Diama d W/ID	Vee
WG1	Airworthiness	Propulsion Systems	Propulsion	UAS Propulsion System Categorization		Planned WIP	Yes
WC1	Ainworthinger	Power Sources and Propulsion Systems	SAE E-39 Unmanned Aircraft	SAE AS6971, Test Protocol for UAS Reciprocating (Intermittent) Engines as Primary Thrust Mechanism		(New) In	Vac
wG1	Airworthiness	Propulsion Systems Power Sources and	Propulsion	(intermittent) Engines as Phimary Thrust Mechanism		Development	Yes
WC1	Airworthiness		lun -	III 1642 Standard for Safety for Lithium Patteries	2012	Published	No
WG1	Anworthiness	Propulsion Systems Power Sources and	UL	<u>UL 1642, Standard for Safety for Lithium Batteries</u> UL 2271, Standard for Batteries for Use in Light Electric	2012	Published	No
WG1	Airworthiness	Propulsion Systems	UL	Vehicle (LEV) Applications	2018	Published	No
WGI		Power Sources and			2010		140
WG1	Airworthiness	Propulsion Systems	UL	UL 2580, Standard for Batteries in Use in Electric Vehicles	2013	Published	No
WGI		Power Sources and		OF 2000, Otanuaru for Datteries III Ose III Lieutite Veliles	2013		140
WG1	Airworthiness		lui -	III 2743 Standard for Safety for Portable Power Packs	2018	Published	No
WG1	Airworthiness	Propulsion Systems	UL	UL 2743, Standard for Safety for Portable Power Packs	2018	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
				UL 62133, Standard for Secondary Cells and Batteries			
				Containing Alkaline or Other Non-Acid Electrolytes - Safety			
				Requirements for Portable Sealed Secondary Cells, and for			
		Power Sources and		Batteries Made From Them, for Use in Portable			
WG1	Airworthiness	Propulsion Systems	UL	Applications	2017	Published	No
WG1	Airworthiness	Noise, Emissions, and Fuel Venting	ICAO	Future ICAO work on Aircraft Noise		Planned WIP	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE AIR1081, House Noise-Reduction Measurements for			
WG1	Airworthiness	Fuel Venting	Modeling	Use in Studies of Aircraft Flyover Noise	2007	Published	No
			SAE A-21 Aircraft Noise Measure	SAE AIR1672B, Practical Methods to Obtain Free-Field			
		Noise, Emissions, and	Noise Aviation Emission	Sound Pressure Levels from Acoustical Measurements			
WG1	Airworthiness	Fuel Venting	Modeling	Over Ground Surfaces	2012	Published	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE AIR1905A, Gas Turbine Coaxial Exhaust Flow Noise			
WG1	Airworthiness	Fuel Venting	Modeling	Prediction	2012	Published	No
			SAE A-21 Aircraft Noise Measure	SAE AIR1935, Methods of Controlling Distortion of Inlet			
		Noise, Emissions, and	Noise Aviation Emission	Airflow During Static Acoustical Tests of Turbofan Engines			
WG1	Airworthiness	Fuel Venting	Modeling	and Fan Rigs	2007	Published	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE AIR5662, Method for Predicting Lateral Attenuation of			
WG1	Airworthiness	Fuel Venting	Modeling	Airplane Noise	2012	Published	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE ARP1846A, Measurement of Far Field Noise from Gas			
WG1	Airworthiness	Fuel Venting	Modeling	Turbine Engines During Static Operation, 2008	2008	Published	No
		-	SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE ARP4055, Ground-Plane Microphone Configuration for			
WG1	Airworthiness	Fuel Venting	Modeling	Propeller-Driven Light-Aircraft Noise Measurement	2007	Published	No
			SAE A-21 Aircraft Noise Measure	SAE ARP4721/1, Monitoring Aircraft Noise and Operations			
		Noise, Emissions, and	Noise Aviation Emission	in the Vicinity of Airports: System Description, Acquisition,			
WG1	Airworthiness	Fuel Venting	Modeling	and Operation	2012	Published	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission	SAE ARP4721/2, Monitoring Aircraft Noise and Operations			
WG1	Airworthiness	Fuel Venting	Modeling	in the Vicinity of Airports: System Validation	2012	Published	No
			SAE A-21 Aircraft Noise Measure				
		Noise, Emissions, and	Noise Aviation Emission				
WG1	Airworthiness	Fuel Venting	Modeling	SAE ARP876F, Gas Turbine Jet Exhaust Noise Prediction	2013	Published	No
		Noise, Emissions, and	SAE AGE-3 Aircraft Ground	SAE ARP1801A, Measurement of Exterior Sound Level of			
WG1	Airworthiness	Fuel Venting	Support Equipment	Specialized Aircraft Ground Support Equipment	2016	Published	No
		Noise, Emissions, and			-		-
WG1	Airworthiness		SAE E-31G Gaseous	SAE AIR4068B, Gas Turbine Emission Probe Factors	2012	Published	No
		Noise, Emissions, and		SAE ARP1179D, Aircraft Gas Turbine Engine Exhaust			-
WG1	Airworthiness	Fuel Venting	SAE E-31G Gaseous	Smoke Measurement	2011	Published	No
				SAE ARP1256D, Procedure for the Continuous Sampling	-		-
		Noise, Emissions, and	SAE E-31G Gaseous	and Measurement of Gaseous Emissions from Aircraft			
	Airworthiness	Fuel Venting		Turbine Engines	3-Jul-05	Published	No
WG1			1		0 00.00		
WG1		Noise, Emissions, and	SAE E-31G Gaseous	SAE ARP1533C, Procedure for the Calculation of Gaseous			

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
				SAE ARP1279, Standard Indoor Method of Collection and			
		Noise, Emissions, and	SAE S-12 Helicopter Powerplant	Presentation of the Bare Turboshaft Engine Noise Data for			
WG1	Airworthiness	Fuel Venting		Use in Helicopter Installations, 1985	1985	Published	No
			SAE AC-9C Aircraft Icing	SAE AIR1168/4B, SAE Aerospace Applied			
		Mitigation Systems for	Technology	Thermodynamics Manual, Ice, Rain, Fog, and Frost			
WG1	Airworthiness	Various Hazards	0.	Protection	29-Aug-16	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR1667A, Rotor Blade Electrothermal Ice Protection			
WG1	Airworthiness	Various Hazards	Technology	Design Considerations	23-Apr-13	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing		1 - 11 10		
WG1	Airworthiness	Various Hazards	Technology	SAE AIR4015D, Icing Technology Bibliography	15-Mar-13	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR4367A, Aircraft Inflight Ice Detectors and Icing			
WG1	Airworthiness	Various Hazards	Technology	Rate Measuring Instruments	11-Oct-12	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR4906, Droplet Sizing Instrumentation Used in Icing			
WG1	Airworthiness	Various Hazards	Technology	Facilities	23-Apr-13	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing				
WG1	Airworthiness	Various Hazards	Technology	SAE AIR5320A, Summary of Icing Simulation Test Facilities	25-Sep-15	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR5396A, Characterizations of Aircraft Icing			
WG1	Airworthiness	Various Hazards	Technology	Conditions	24-Aug-15	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR5666, Icing Wind Tunnel Interfacility Comparison			
WG1	Airworthiness	Various Hazards	Technology	<u>Tests</u>	3-Oct-12	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing				
WG1	Airworthiness	Various Hazards	Technology	SAE ARP5624, Aircraft Inflight Icing Terminology	23-Apr-13	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE ARP5903, Droplet Impingement and Ice Accretion			
WG1	Airworthiness	Various Hazards	Technology	Computer Codes	1-Jun-15	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing				
WG1	Airworthiness	Various Hazards	Technology	SAE ARP5904, Airborne Icing Tankers	11-Oct-12	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE ARP5905, Calibration and Acceptance of Icing Wind			
WG1	Airworthiness	Various Hazards	Technology	Tunnels	26-Sep-15	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AS5498A, Minimum Operational Performance			
WG1	Airworthiness	Various Hazards	Technology	Specification for Inflight Icing Detection Systems	5-Dec-17	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AS5562, Ice and Rain Minimum Qualification			
WG1	Airworthiness	Various Hazards	Technology	Standards for Pitot and Pitot-static Probes	7-Aug-15	Published	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR4367B, Aircraft Inflight Ice Detectors and Icing		(New) In	
WG1	Airworthiness	Various Hazards	Technology	Rate Measuring Instruments		Development	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR4906A, Particle Sizing Instrumentation for Icing		(New) In	
WG1	Airworthiness	Various Hazards	Technology	Cloud Characterization		Development	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR5666A, Icing Wind Tunnel Interfacility Comparison		(New) In	
WG1	Airworthiness	Various Hazards	Technology	Tests		Development	No
		Mitigation Systems for	SAE AC-9C Aircraft Icing	SAE AIR6247, Guidance on Selecting a Ground-based		(New) In	
WG1	Airworthiness	Various Hazards	Technology	Icing Simulation Facility		Development	No
-							-
		Mitigation Systems for	SAE AC-9C Aircraft Icing			(New) In	
	1	Various Hazards	Technology	SAE AIR6341, SLD capabilities of icing wind tunnels		Development	No

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WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE AC-9C Aircraft Icing Technology	SAE AIR6440, Icing Tunnel Tests for Thermal Ice Protection Systems		(New) In Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE AC-9C Aircraft Icing Technology	SAE AIR6962, Ice Protection for Unmanned Aerial Vehicles		(New) In Development	Yes
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE AC-9C Aircraft Icing Technology	SAE AIR6974, Ice Crystal and Mixed Phase Icing Tunnel Testing of Air Data Probes		(New) In Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards Mitigation Systems for	SAE AC-9C Aircraft Icing Technology	SAE ARP5905A, Calibration and Acceptance of Icing Wind <u>Tunnels</u> SAE ARP6455, Ice Shape Test Matrix Development for		(New) In Development (New) In	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AC-9C Aircraft Icing Technology SAE AC-9C Aircraft Icing	Unprotected Surfaces SAE ARP6901, Consideration for passive rotorcraft		Development (New) In	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	Technology	engine/APU induction system ice protection SAE ARP5412B, Aircraft Lightning Environment and		Development	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	Related Test Waveforms	2013	Published	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	SAE ARP5414A, Aircraft Lightning Zoning SAE ARP5415A, User's Manual for Certification of Aircraft Electrical/Electronic Systems for the Indirect Effects of	2012	Published	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	Lightning	2008	Published	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	SAE ARP5416A, Aircraft Lightning Test Methods	2013	Published	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	SAE ARP5577, Aircraft Lightning Direct Effects Certification	2008	Published	No
WG1	Airworthiness	Various Hazards Mitigation Systems for	SAE AE-2 Lightning	SAE ARP5672, Aircraft Precipitation Static Certification	2016	Published (New) In	No
WG1	Airworthiness	Various Hazards	SAE AE-2 Lightning	SAE ARP5414B, Aircraft Lightning Zoning SAE ARP5415B, User's Manual for Certification of Aircraft		Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE AE-2 Lightning	Electrical/Electronic Systems for the Indirect Effects of Lightning		(New) In Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE AE-2 Lightning	SAE ARP6205, Transport Airplane Fuel Tank and Systems Lightning Protection		(New) In Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE G-28 Simulants for Impact and Ingestion Testing	Artificial simulant standards for drone or FOD impact/ingestion		(New) In Development	Yes
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE G-28 Simulants for Impact and Ingestion Testing	SAE ARP6924, Tests Recommended for Qualifying an Artificial Bird for Aircraft Certification Testing		(New) In Development	No
WG1	Airworthiness	Mitigation Systems for Various Hazards	SAE G-28 Simulants for Impact and Ingestion Testing	SAE AS6940, Standard Test Method for Measuring Forces During Impact of a Soft Projectile on a Rigid Flat Surface		(New) In Development	No
WG1	Airworthiness	Parachutes for Small UAS	AIAA Atmospheric and Space Environment	ANSI/AIAA S-017B-2015, Aerodynamic Decelerator and Parachute Drawings, 2015An ASTM designation number identifies a unique version of an ASTM standard.F3201 - 16	2015	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.30, Power Parachute	ASTM F2241-14, Standard Specification for Continued Airworthiness System for powered Parachute Aircraft	2014	Published	No

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WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.30, Power Parachute	ASTM F2242-05(2013), Standard Specification for Production Acceptance Testing System for Powered Parachute Aircraft	2013	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.30, Power Parachute	ASTM F2243-11(2013), Standard Specification for Required Product Information to be Provided with Powered Parachute Aircraft	2013	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.30, Power Parachute	ASTM F2244-14, Standard Specification for Design and Performance Requirements for Powered Parachute Aircraft	2014	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.30, Power Parachute	ASTM F2426-13, Standard Guide on Wing Interface Documentation for Powered Parachute Aircraft	2013	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F37.70, Cross Cutting	ASTM F2316-12(2014), Standard Specification for Airframe Emergency Parachutes	2014	Published	No
WG1	Airworthiness	Parachutes for Small UAS	ASTM F38.01, Unmanned Aircraft Systems (UAS) - Airworthiness	ASTM F3322-18, Standard Specification for Small Unmanned Aircraft System (sUAS) Parachutes.	2018	Published	Yes
WG1	Airworthiness	Parachutes for Small UAS	SAE Aerospace Council	SAE AS8015B, Minimum Performance Standard for Parachute Assemblies and Components, Personnel	14-Jun-05	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR6212, Use of Health Monitoring Systems to Detect Aircraft Exposure to Volcanic Events	13-Dec-16	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARD6888, Functional Specification of Miniature Connectors for Health Monitoring Purposes	19-Jul-16	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP5783, Health and Usage Monitoring Metrics, Monitoring the Monitor	3-May-18	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6275, Determination of Cost Benefits from Implementing an Integrated Vehicle Health Management System	7-Jul-14	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6803, IVHM Concepts, Technology and Implementation Overview	16-Mar-16	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS4831A, Software Interfaces for Ground-Based Monitoring Systems	3-May-18	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS5391A, Helicopter Health and Usage Monitoring System Accelerometer Interface Specification	16-Jun-16	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS5392, Health and Usage Monitoring System, Rotational System Indexing Sensor Specification	12-Dec-02	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS5393, Health and Usage Monitoring System, Blade Tracker Interface Specification	21-Oct-09	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS5394, Health and Usage Monitoring System, Advanced Multipoint Interface Specification	4-Jun-08	Published	No

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WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AS5395, Health and Usage Monitoring System Data Interchange Specification	3-May-18	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE JA6268_201804, Design & Run-Time Information Exchange for Health-Ready Components	2-Apr-18	Published	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR6334, A Power Usage Metric For Rotorcraft Power Train Transmissions		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR6900, Applicable Integrated Vehicle Health Monitoring (IVHM) Regulations, Policy, and Guidance Documents		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR6904, Data Interoperability for IVHM		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR6915, Implementation of IVHM, Human Factors and Safety Implications		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE AIR8012, Prognostics and Health Management Guidelines for Electro-Mechanical Actuators		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6290, Guidelines for the Development of Architectures for Integrated Vehicle Health Management Systems		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6407, Integrated Vehicle Health Management Design Guidelines		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6883, Guidelines for writing IVHM requirements for aerospace systems		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	SAE HM-1 Integrated Vehicle Health Management Committee	SAE ARP6887, Verification & Validation of Integrated Vehicle Health Management Systems and Software		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	ASTM F37.70, Light Sport Aircraft - Cross Cutting	ASTM WK30359, New Specification for Light Sport Aircraft Manufacturers Continued Operational Safety (COS) Monitoring Program		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	ASTM F38.02, Flight Operations	ASTM WK63991, Revision of F2909-14, Standard Practice for Maintenance and Continued Airworthiness of Small Unmanned Aircraft Systems (sUAS)		(Revision) In Development	Yes
WG1	Airworthiness	Maintenance and Inspection	ASTM F38.02, Unmanned Aircraft Sytems (UAS) - Flight Operations	ASTM F2909-14, Standard Practice for Maintenance and Continued Airworthiness of Small Unmanned Aircraft Systems (sUAS)	2014	Published	Yes
WG1	Airworthiness	Maintenance and Inspection	ASTM F39.02, Aircraft Systems - Inspection, Alteration, Maintenance, and Repair	ASTM WK55298, New Guide for Classifying Alterations for In-Service Aircraft under FAA Authority Oversight		(New) In Development	No
WG1	Airworthiness	Maintenance and Inspection	ASTM F39.02, Inspection, Alteration, Maintenance, and Repair	ASTM F2696-14, Standard Practice for Inspection of Aircraft Electrical Wiring Systems	2014	Published	No

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WG1	Airworthiness	Maintenance and Inspection	ASTM F39.02, Inspection, Alteration, Maintenance, and Repair	ASTM F2799-14, Standard Practice for Maintenance of Aircraft Electrical Wiring Systems	2014	Published	No
WG1	Airworthiness	Maintenance and Inspection	ASTM F46.02, Avionics and Information Technology Endorsements	ASTM F3245-17, Standard Guide for Aircraft Electronics Technician Personal Certification	2017	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	ASTM AC377	ASTM AC377, Technical Report on Autonomy Design and Operations in Aviation	2018/2019	(New) In Development	Yes
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	RTCA SC-203	RTCA DO-344 Volume 1 & 2 - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Standards	Jun-13	Published	Yes
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	RTCA SC-203	RTCA DO-344 Volume 2-Appendices F & G - Operational and Functional Requirements and Safety Objectives for Unmanned Aircraft System Standards	Jun-13	Published	Yes
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE ARP6227-2013, JAUS Messaging over the OMG Data Distribution Service (DDS)	24-Feb-13	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS5684B-2015, JAUS Service Interface Definition	21-Aug-15	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS5710A, JAUS Core Service Set	24-Apr-15	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS6040, JAUS HMI Service Set	24-Apr-15	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS6057A-2014, JAUS Manipulator Service Set	3-Jun-14	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS6060, JAUS Environment Sensing Service Set	24-Apr-15	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4JAUS Joint Architecture for Unamnned Systems	SAE AS6009A, JAUS Mobility Service Set		(Revision) In Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6515-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: EA Version of UCS ICD Model	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6516-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: RSA Version of UCS ICD Model	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6517-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Rhapsody Version of UCS ICD Model	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6519-2016, UxS Control Segment (UCS) Architecture: UCTRACE	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6520-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Version Description Document	20-Dec-16	Published	Yes
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AIR6521-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Data Distribution Service (DDS)	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AS6512-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Architecture Description	20-Dec-16	Published	No
WG1	Airworthiness	Enterprise Operations: Level of Automation/ Autonomy/ Artificial Intelligence (AI)	SAE AS-4UCS Unmanned Systems (UxS) Control Segment Architecture	SAE AS6513-2016, Unmanned Systems (UxS) Control Segment (UCS) Architecture: Conformance Specification	20-Dec-16	Published	No
	Operations: General		ASTM E57.02, Imaging Systems - Test Methods	ASTM E2919-14, Standard Test Method for Evaluating the Performance of Systems that Measure Static, Six Degrees of Freedom (6DOF), Pose ASTM E2938-15, Standard Test Method for Evaluating the	2014	Published	No
	Operations: General		ASTM E57.02, Imaging Systems - Test Methods	Relative-Range Measurement Performance of 3D Imaging Systems in the Medium Range	2015	Published	No
	Operations: General		ASTM E57.02, Imaging Systems - Test Methods	ASTM E3064-16, Standard Test Method for Evaluating the Performance of Optical Tracking Systems that Measure Six Degrees of Freedom (6DOF) Pose	2016	Published	No
	Operations: General		ASTM E57.02, Imaging Systems - Test Methods	ASTM E3124-17, Standard Test Method for Measuring System Latency Performance of Optical Tracking Systems that Measure Six Degrees of Freedom (6DOF) Pose	2017	Published	No
	Operations: General		ASTM E57.02, Imaging Systems · Test Methods	ASTM E3125-17, Standard Test Method for Evaluating the <u>Point-to-Point Distance Measurement Performance of</u> <u>Spherical Coordinate 3D Imaging Systems in the Medium</u> <u>Range</u>	2017	Published	No

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WO0	Operations:		ASTM E57.03, Imaging Systems	ASTM E2641-09(2017), Standard Practice for Best	0017	Dublished	N I -
WG2	General		Guidelines	Practices for Safe Application of 3D Imaging Technology	2017	Published	No
MOO	Operations: General		ASTM E57.04, Imaging Systems	ASTM E2807-11, Standard Specification for 3D Imaging Data Exchange, Version 1.0	2014	Dublished	Nia
WGZ			Data Interoperability	ASTM F2507-15, Standard Specification for Recreational	2011	Published	No
MCO	Operations: General		ASTM F37.70, Light Sport Aircraft - Cross Cutting	As TM F2507-15, Standard Specification for Recreational Airpark Design	2015	Published	No
WGZ	General		ASTM F38.01, Unmanned	Allpark Design	2015	Fublisheu	INU
	Operations:		Astrono Pso. 01, Offinanned Aircraft Systems (UAS) -	ASTM F2851-10 Standard Practice for UAS Registration			
WG2	General		Airworthiness	and Marking (Excluding Small Unmanned Aircraft Systems)	2010	Published	Yes
W02	General		ASTM F38.02, Unmanned		2010	T ublished	163
	Operations:		Aircraft Sytems (UAS) - Flight	ASTM F2849-10 Standard Practice for Handling of			
WG2	General		Operations	Unmanned Aircraft Systems at Divert Airfields	2010	Published	Yes
W02	General		ASTM F38.02, Unmanned	Orimanned Alician Oystems at Divert Almeids	2010	T ublished	163
	Operations:		Aircraft Sytems (UAS) - Flight	ASTM WK28019 New Practice for Selecting sUAS Launch		(New) In	
WG2	General		Operations	and Recovery		Development	Yes
W02	General		ASTM F38.02, Unmanned			Development	163
	Operations:		Aircraft Sytems (UAS) - Flight			(New) In	
WG2	General		Operations	ASTM WK59317, New Specification for Vertiport Design		Development	Yes
W02	Ochoral			ISO/IEC AWI 22460, ISO License and Drone Identity		Development	103
	Operations:		security devices for personal	Module for Drone (Ultra Light Vehicle or Unmanned aircraft		(New) In	
WG2	General		identification	system)		Development	Yes
1102	Conordi		SAE G-30 UAS Operator			Development	100
	Operations:		Qualifications & G-10U				
WG2	General		Unmanned Aerospace Vehicle	Night operations		Future WIP	Yes
	Operations:			IEEE P2025.2 Standard for Consumer Drones: Privacy and		(New) In	
WG2	General	Privacy	IEEE CES/SC/DWG	Security		Development	Yes
	Operations:		ISO/TC 20/SC 16, Unmanned	ISO/DIS 21384-3, Unmanned aircraft systems - Part 3:		(New) In	
WG2	General	Privacy	Aircraft Systems	Operational procedures		Development	Yes
_		,	ASTM F38.02, Unmanned				
	Operations:	Operational Risk	Aircraft Sytems (UAS) - Flight	ASTM F3178-16 Standard Practice for Operational Risk			
WG2	General	Assessment (ORA)	Operations	Assessment of Small Unmanned Aircraft Systems (sUAS)	2016	Published	Yes
		()		JARUS Ops Cat A & B. This document is developing			
				recommendation for operations of UAS involved in			
				manufacturing, operations, maintenance and service			
				provision. It is based on categorization A & B as per the			
	Operations:	Operational Risk		RPAS Operational categorization of WG 7 and SORA		(New) In	
WG2	General	Assessment (ORA)	JARUS WG2 - Operations	developed by WG 6.		Development	Yes
	Operations:	Operational Risk	JARUS WG6 - Safety & Risk	JARUS Guidelines on Specific Operations Risk			
WG2	General	Assessment (ORA)	Management	Assessment (SORA) JAR-DEL-WG6-D.04	2017	Published	Yes
				JARUS SORA (Package). Specific Operations Risk			
				Assessment and two Annexes: Annex A - Guidelines on			
				collecting and presenting system and operation information			
	Operations:	Operational Risk	JARUS WG6 - Safety & Risk	for a specific UAS operation, and Annex I - Glossary of			
WG2	General	Assessment (ORA)	Management	Terms	Jul-17	Published	Yes
	Operations:	Operational Risk	JARUS WG7 - Concepts of				
WG2	General	Assessment (ORA)	Operations	JARUS RPAS Operational Categorization	Aug-18	Published	Yes
	Operations:	Operational Risk		RTCA DO-304 - Guidance Material and Considerations for			
WG2	General	Assessment (ORA)	RTCA SC-203	Unmanned Aircraft Systems	Mar-07	Published	Yes

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
	Operations:	Operational Risk	DTO 1 O 2 O 20	RTCA DO-320 - Operational Services and Environmental			
WG2	General	Assessment (ORA)	RTCA SC-203	Definition (OSED) for Unmanned Aircraft Systems	Jun-10	Published	Yes
			ASTM F38.02, Unmanned	ASTM F3196-18, Standard Practice for Seeking Approval			
	Operations:	Beyond Visual Line of	Aircraft Sytems (UAS) - Flight	for Beyond Visual Line of Sight (BVLOS) Small Unmanned	0010		
WG2	General	Sight	Operations	Aircraft System (sUAS) Operations	2018	Published	Yes
			SAE G-30 UAS Operator				
W00	Operations:	Beyond Visual Line of	Qualifications & G-10U	Elistet have a designed the start of starts			N
WG2	General	Sight	Unmanned Aerospace Vehicle	Flight beyond visual line of sight		Future WIP	Yes
			ASTM F38.01, Unmanned				
	Operations:		Aircraft Systems (UAS) -	ASTM WK52089, New Specification for Operation over		(New) In	N/
WG2	General	Operation Over People	Airworthiness	People		Development	Yes
			ASTM F38.01, Unmanned				
	Operations:		Aircraft Systems (UAS) -	ASTM WK56338, New Test Methods for Safety of		(New) In	
WG2	General	Operation Over People	Airworthiness	Unmanned Aercraft Systems for Flying Over People		Development	Yes
				RTCA DO-358, Minimum Operational Performance			
			RTCA SC-206, Aeronautical	Standards (MOPS) for Flight Information Services			
	Operations:		Information and Meteorological	Broadcast (FIS-B) with Universal Access Transceiver			
WG2	General	Weather	Data Link Services	<u>(UAT)</u>	2015	Published	No
			RTCA SC-206, Aeronautical	RTCA DO-364, Minimum Aviation System Performance			
	Operations:		Information and Meteorological	Standards (MASPS) for Aeronautical			
WG2	General	Weather	Data Link Services	Information/Meteorological Data Link Services	2016	Published	No
			RTCA SC-206, Aeronautical	RTCA DO-369, Guidance for the Usage of Data Linked			
	Operations:		Information and Meteorological	Forecast and Current Wind Information in Air Traffic			
WG2	General	Weather	Data Link Services	Management (ATM) Operations	2017	Published	No
				RTCA DO-358, Minimum Operational Performance			
			RTCA SC-206, Aeronautical	Standards (MOPS) for Flight Information Services			
	Operations:		Information and Meteorological	Broadcast (FIS-B) with Universal Access Transceiver		(Revision) In	
WG2	General	Weather	Data Link Services	(UAT)		Development	No
	Operations:		SAE G-10 W Weather	SAE ARP5740, Cockpit Display of Data Linked Weather			
WG2	General	Weather	Information Systems Committee	Information	2015	Published	No
	Operations:	Data Handling and	,	OGC 06-042, OpenGIS Web Map Server Implementation			
WG2	General	Processing	OGC	Specification (v1.3)	2006	Published	No
_		3		OGC 06-103r4, OpenGIS Implementation Standard for			-
	Operations:	Data Handling and		Geographic information - Simple feature access - Part 1:			
WG2	General	Processing	OGC	Common architecture (v1.2.1)	2011	Published	No
	Operations:	Data Handling and		OGC 07-036r1, OGC Geography Markup Language (GML)	-		
WG2	General	Processing	OGC	- Extended schemas and encoding rules (v3.2)	2012	Published	No
	Operations:	Data Handling and		OGC 07-057r7, OpenGIS Web Map Tile Service			
WG2	General	Processing	OGC	Implementation Standard (v1)	2010	Published	No
	Operations:	Data Handling and		OGC 09-000, OGC Sensor Planning Service	2010	1 donoriou	
WG2	General	Processing	OGC	Implementation (v2)	2011	Published	No
		Data Handling and		OGC 09-110r3, OGC Web Coverage Service (WCS) 2.0	2011	1 donoriou	
WG2	General	Processing	OGC	Interface Standard - Core (v2)	2010	Published	No
	Operations:	Data Handling and		OGC 09-11or4, OGC Web Coverage Service (WCS) 2.0	2010	i donorioù	
WC2	General	Processing	OGC	Interface Standard- Core: Corrigendum (v2.0.1)	2012	Published	No
VV G2	Operations:	Data Handling and		OGC 09-146r6, OGC Coverage Implementation Schema	2012		
WG2	General	Processing	OGC	(v1.1)	2017	Published	No
VVG2				(V1.1) OGC 10-025r1, Observations and Measurements - XML	2017	Published	No
MOO	Operations:	Data Handling and	000		2044	Dublished	Nia
vvG2	General	Processing	OGC	Implementation (v2)	2011	Published	No

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WG2	Operations: General	Data Handling and Processing	OGC	OGC 10-129r1, OGC Geography Markup Language (GML) — Extended schemas and encoding rules (v3.3)	2012	Published	No
W02	Operations:	Data Handling and	000	OGC 12-000, OGC Sensor Model Language	2012	T ublished	INO
WG2	General	Processing	OGC	(SensorML):Model and XML Encoding Standard (v2)	2014	Published	No
	Operations:	Data Handling and		OGC 12-006, OGC Sensor Observation Service Interface			
WG2	General	Processing	OGC	Standard (v2)	2012	Published	No
	Operations:	Data Handling and					
WG2	General	Processing	OGC	<u>OGC 12-007r2, KML 2.3 (v1)</u>	2015	Published	No
	Operations:	Data Handling and		OGC 15-078r6, OGC SensorThings API Part 1: Sensing	0010		
WG2	General	Processing	OGC	<u>(v1)</u>	2016	Published	No
W/00	Operations:	Data Handling and	000	OGC GML in JPEG 2000 for Geographic Imagery Encoding	0040	Dublished	NI-
WG2	General	Processing Data Handling and	OGC	<u>Standard</u>	2018	Published	No
MCO	Operations: General	Processing	OGC	OGC LAS Specification 1.4, OGC Community Standard	2017	Published	No
WGZ	Operations:	Data Handling and	080	OGC Web Processing Service (WPS) 2.0 Interface	2017	Fublisheu	INU
WG2	General	Processing	OGC	Standard	2015	Published	No
1102	Operations:	Data Handling and	000		2010	i ublished	110
WG2	General	Processing	OGC	OGC Wide Area Motion Imagery (WAMI) Best Practice	2012	Published	No
	Operations:	Data Handling and			2012	(New) In	110
WG2	General	Processing	OGC	OGC GeoTIFF	mid-2019	Development	No
-	Operations:	Data Handling and					_
WG2	General	Processing	WXXM	WXXM – Weather Information Exchange Model (WXXM)		Published	No
	_		ASTM F38.02, Unmanned				
	Operations:		Aircraft Sytems (UAS) - Flight	ASTM WK63418, New Specification for Service provided		(New) In	
WG2	General	(UTM)	Operations	under UAS Traffic Management (UTM)		Development	Yes
	Operations:	UAS Traffic Management					
WG2	General	(UTM)	FAA NextGen	UTM CONOPS1.0 released June 2018		Published	Yes
	Onerstiener		ISO/TC 20/SC 16, Unmanned	ISO/AWI TR 23629-1, UAS Traffic Management (UTM) Part 1: General requirements for UTM Survey results on		(Naur) In	
MCO	Operations: General	(UTM)	Aircraft Systems	UTM.		(New) In Development	Yes
WGZ	General			NUAIR has formalized a Space Act Agreement with NASA		Development	Tes
				for development of the National Unmanned Aerial System			
	Operations:	UAS Traffic Management		Standardized Performance Testing and Rating (NUSTAR)			
WG2	General	(UTM)	NUAIR	Program			Yes
	Operations:	(0)		3GPP WI810049 Release 16, Feasibility Study and Work		(New) In	
WG2	General	Remote ID & Tracking	3GPP S1	Item on Remote Identification of Unmanned Aerial System		Development	Yes
		-	ASTM F38.02, Unmanned				
	Operations:		Aircraft Sytems (UAS) - Flight	ASTM WK65041, New Practice for UAS Remote ID and		(New) In	
WG2	General	Remote ID & Tracking	Operations	Tracking		Development	Yes
				ATIS-I-0000060, Unmanned Aerial Vehicle (UAV) Utilization			
	Operations:			of Cellular Services – Enabling Scalable and Safe			
WG2	General	Remote ID & Tracking	ATIS	Operation (white paper)	2017	Published	Yes
	Operations:			ATIS-I-0000069, Support for UAV Communications in			
WG2	General	Remote ID & Tracking	ATIS	<u>3GPP Cellular Standards (technical report)</u>	2018	Published	Yes
	Operations:			ANSI/CTA-2063, Small Unmanned Aerial Systems Serial	00/-		N N
WG2	General	Remote ID & Tracking	CTA R6WG23	Numbers	2017	Published	Yes
MOO	Operations:	Domoto ID 9 Treaking		Minimum Aviation System Performance Specification for		(New) In	Vee
WG2	General	Remote ID & Tracking	EUROCAE	UAS e-identification		Development	Yes

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG2	Operations: General	Remote ID & Tracking	EUROCAE	Minimum Operational Performance Specification for UAS e- identification		(New) In Development	Yes
WG2	Operations: General	Remote ID & Tracking	IEEE COM/SDB/Aerial Networks	IEEE P1920.1 Aerial Communications and Networking Standards		(New) In Development	Yes
WG2	Operations: General	Geo-fencing	EUROCAE	Minimum Aviation System Performance Specification for UAS geo-fencing		(New) In Development	Yes
WG2	Operations: General	Geo-fencing	EUROCAE	Minimum Operational Performance Specification for UAS geo-fencing		(New) In Development	Yes
WG2	Operations: General Operations:	Geo-fencing	OGC	OGC 16-120r3, OGC Moving Features Access	2017	Published (Revision) In	Yes
WG2	General	Geo-fencing	OGC SAE G-30 UAS Operator	OGC Web Feature Service 3.0		Development	No
WG2	Operations: General	Geo-fencing	Qualifications & G-10U Unmanned Aerospace Vehicle	Access to controlled airspace		Future WIP	Yes
WG3	Operations: Vertical Infrastructure Inspections	Boilers and Pressure Vessels	ASME Boiler and Pressure Vessel (BPV) Committee on Nondestructive Examination (V)	Guidelines for unmanned aerial systems (UAS) for inspections; a guidance document that will provide requirements for safe and reliable use of UAS in the performance of examinations.	Oct-19	(New) In Development	Yes
WG3	Operations: Vertical Infrastructure Inspections	Cranes	ASME B30.32 Safety Standards Committee for Cabelways, Cranes, Derricks, Hoists, Hooks, Jacks, and Slings	ASME B30.32-20XX, Unmanned Aircraft Systems (UAS) used in Inspection, Testing, Maintenance, and Lifting Operations	Oct-20	(New) In Development	Yes
WG3	Operations: Vertical Infrastructure Inspections	Building Facades	ACI Committee 201	ACI 201.1R-08, Guide for Conducting a Visual Inspection of Concrete in Service	2008	Published	No
WG3	Operations: Vertical Infrastructure Inspections	Building Facades	ACI Committee 562	ACI 562-16, Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary	2016	Published	No
	Operations: Vertical Infrastructure Inspections	Building Facades	ASTM E06.55, Performance of Buildings - Performance of Building Enclosures	ASTM E1825-17, Standard Guide for Evaluation of Exterior Building Wall Materials, Products, and Systems	2017	Published	No
	Operations: Vertical Infrastructure Inspections	Building Facades	ASTM E06.55, Performance of Buildings - Performance of Building Enclosures	ASTM E2128-17, Standard Guide for Evaluating Water Leakage of Building Walls	2017	Published	No
	Operations: Vertical Infrastructure Inspections	Building Facades	ASTM E06.55, Performance of Buildings - Performance of Building Enclosures	ASTM E2270-14, Standard Practice for Periodic Inspection of Building Facades for Unsafe Conditions	2014	Published	No
WG3	Operations: Vertical Infrastructure Inspections	Building Facades	ASTM E06.55, Performance of Buildings - Performance of Building Enclosures	ASTM E2841-11, Standard Guide for Conducting Inspections of Building Facades for Unsafe Conditions	2011	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
	Operations: Vertical		ASTM E06.55, Performance of		-		
	Infrastructure		Buildings - Performance of	ASTM E2947-16a, Standard Guide for Building Enclosure			
WG3	Inspections	Building Facades	Building Enclosures	Commissioning	2016	Published	No
	Operations:						
	Vertical		ASTM E06.55, Performance of				
	Infrastructure		Buildings - Performance of	ASTM E3036-15, Standard Guide for Notating Facade			
WG3	Inspections	Building Facades	Building Enclosures	Conditions in the Field	2015	Published	No
	Operations:						
	Vertical		ASTM E06.55, Performance of	ASTM WK43980, New Guide for Assessing Building or		() [
MCO	Infrastructure	Building Foodoo	Buildings - Performance of	Structure Designs for Sliding or Falling Ice and Snow		(New) In	No
WG3	Inspections Operations:	Building Facades	Building Enclosures	Hazard Potential		Development	No
	Vertical		ASTM E06.55, Performance of				
	Infrastructure		Buildings - Performance of	ASTM WK58243, New Guide for Visual Inspection of		(New) In	
WG3	Inspections	Building Facades	Building Enclosures	Building Facade using Drone_		Development	Yes
	Operations:	2 analig r doddoo				Levelopment	
	Vertical		ASTM E06.75, Performance of				
	Infrastructure		Buildings - Building Safety in the	ASTM WK62463, New Practice for Protection of Public and		(New) In	
WG3	Inspections	Building Facades	Construction Life Cycle	Property During High-rise Construction		Development	No
	Operations:						
	Vertical						
	Infrastructure		ASTM/NFPA UAS Public Safety	Use Case Scenario – Building Safety & Damage		(New) In	
WG3	Inspections	Building Facades	JWG 8	<u>Assessment</u>		Development	Yes
	Operations:						
	Vertical					(a	
	Infrastructure	Low-Rise Residential and				(Still under	N/
WG3	Inspections	Commercial Buildings	ASHI			discussion)	Yes
	Operations: Vertical						
	Infrastructure		National Association of Tower	Unmanned Aerial Systems Operations Around Vertical			
WG3	Inspections	Communications Towers	Erectors (NATE) UAS Committee	Communications Infrastructure (2nd Edition, January 2017)	2017	Published	Yes
*****	Operations:				2017	T ublished	103
	Vertical			TIA-222, Structural Standard for Antenna Supporting			
	Infrastructure			Structures, Antennas and Small Wind Turbine Support			
WG3	Inspections	Communications Towers	TIA	Structures	5-Oct-17	Published	No
	Operations:						
	Vertical			TIA-322, Loading, Analysis, and Design Criteria Related to			
	Infrastructure			the Installation, Alteration and Maintenance of			
	Inspections	Communications Towers	TIA	Communication Structures	22-Aug-16	Published	No
	Operations:						
	Linear		ASTM F38.02, Unmanned				
	Infrastructure		Aircraft Sytems (UAS) - Flight			(New) In	V
WG3	Inspections		Operations	WK#Pending, Use Case Scenario - Linear Inspections		Development	Yes
	Operations:		SAE G-30 LIAS Operator				
	Linear Infrastructure		SAE G-30 UAS Operator Qualifications & G-10U				
WG3	Inspections	Bridges		Bridge inspection		Future WIP	Yes
vv G3	inspections	Diluges	onnamed Aerospace vehicle				162

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG3	Operations: Linear Infrastructure Inspections	Railroads	SAE G-30 UAS Operator Qualifications & G-10U Unmanned Aerospace Vehicle	Train right-of-way's		Future WIP	Yes
	Operations: Linear Infrastructure	Power Transmission					100
WG3	Inspections Operations:	Lines	FERC	NERC CIP -14-01, Physical Security		Published	No
WG3	Linear Infrastructure Inspections	Power Transmission Lines	SAE G-30 UAS Operator Qualifications & G-10U Unmanned Aerospace Vehicle	Power line inspection		Future WIP	Yes
	Operations: Wide Area Environment Infrastructure Inspections/ Precision						
	Agriculture Operations: Wide Area Environment Infrastructure Inspections/ Precision	Environmental Monitoring	ISO/TC 23/SC 6, Equipment for Crop Protection, WG 20 on Aerial Sprayers and WG 25 on Unmanned Aerial Vehicle	ISO/DIS 16122-5, Agricultural and forestry machines Inspection of sprayers in use Part 5: Aerial spray systems		(New) In	
WG3	Agriculture	Pesticide Application	Spraying Systems	Environmental protection		Development	No
WG3	Operations: Wide Area Environment Infrastructure Inspections/ Precision Agriculture	Pesticide Application	ISO/TC 23/SC 6, Equipment for Crop Protection, WG 20 on Aerial Sprayers and WG 25 on Unmanned Aerial Vehicle Spraying Systems	ISO/FDIS 16119-5, Agricultural and forestry machinery Environmental requirements for sprayers Part 5: Aerial spray systems		(New) In Development	No
WG3	Operations: Wide Area Environment Infrastructure Inspections/ Precision Agriculture	Pesticide Application	ISO/TC 23/SC 6, Equipment for Crop Protection, WG 25 on Unmanned Aerial Vehicle Spraying Systems	UAS sprayers			Yes
	Operations: Wide Area Environment Infrastructure Inspections/ Precision		SAE G-30 UAS Operator Qualifications & G-10U			Entre MID	
VVG3	Agriculture	Pesticide Application	Unmanned Aerospace Vehicle	Precision agriculture		Future WIP	Yes

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
	Operations: Wide Area						
	Environment						
	Infrastructure						
	Inspections/						
	Precision	Livestock Monitoring and					
WG3	Agriculture	Pasture Management					
	Commercial		ASTM F38.02, Unmanned				
	Package		Aircraft Sytems (UAS) - Flight	ASTM WK62344, Risk Mitigation Strategies for Package		(Revision) In	
WG3	Delivery		Operations	Delivery sUAS BVLOS Operations (Appendix to F3196)		Development	Yes
	Commercial		SAE DSRC (Dedicated Short	CAE 19795 201002 Dedicated Chart Barres			
MOO	Package		Range Communication Tech	SAE J2735 201603, Dedicated Short Range	20 Mar 10	Dublished	Nia
WG3	Delivery		Cmte)	Communications (DSRC) Message Set Dictionary	30-Mar-16	Published	No
	Occupational Safety						
	Requirements						
	for UAS		ASSP A10, Committee for				
	Operated in		Construction and Demolition	Technical Report addressing practices for safe use of		(New) In	
WG3	Workplace		Operations	drones for construction and demolition operations	2019	Development	Yes
	Public Safety		ASTM/NFPA UAS Public Safety			(New) In	
WG4	Operations		JWG 4	<u>Use Case Scenario – Structural Fire Response</u>		Development	Yes
	Public Safety		ASTM/NFPA UAS Public Safety			(New) In	
WG4	Operations		JWG 5	Use Case Scenario – Wildfire Fire Response		Development	Yes
WG4	Public Safety		NFPA	NFPA 3000, Standard for an Active Shooter/Hostile Event Response (ASHER) Program		Published	No
WG4	Operations Public Safety	sUAS for Public Safety	NFPA	Standards for Public Safety Small Unmanned Aircraft		Published	INU
WG4	Operations		APSAC	Systems Programs	Oct-17	Published	Yes
	Public Safety	sUAS for Public Safety		NFPA® 2400, Standard for Small Unmanned Aircraft	00011	1 abiloitoa	100
WG4	Operations		NFPA	Systems (sUAS) Used for Public Safety Operations	Dec-18	Published	Yes
		Hazardous Materials					
	Public Safety	Incident Response and	ASTM/NFPA UAS Public Safety	Use Case Scenario – Hazardous Chemicals (RR, Pipelines,		(New) In	
WG4	Operations		JWG 6	Powerline, Bridge, Container, Ports, Spills)		Development	Yes
		Transport and Post-Crash					
	Public Safety	Procedures Involving					
WG4	Operations	Biohazards					
	Public Safety		ASTM/NFPA UAS Public Safety	Use Case Connerie Assident Deconstruction Menning		(New) In	Vee
WG4	Operations	Photogrammetry Payload Interface and	JWG 1	Use Case Scenario – Accident Reconstruction Mapping		Development	Yes
	Public Safety		ASTM/NFPA UAS Public Safety	Use Case Scenario – Payload Delivery (Ammunition,		(New) In	
WG4	Operations	Operations	JWG 7	Comm's; Medical supply, PFD's)		Development	Yes
104			ASTM F32.01. Search and			Development	100
	Public Safety		Rescue - Equipment, Testing,	ASTM F3222-16, Standard Terminology Relating to F32			
	Operations		and Maintenance	Land Search and Rescue Standards and Guides	2016	Published	No
			ASTM F32.01, Search and	ASTM F3262-17, Standard Classification System for Small			
	Public Safety		Rescue - Equipment, Testing,	Unmanned Aircraft Systems (sUASs) for Land Search and			
WG4	Operations		and Maintenance	Rescue	2017	Published	Yes
			ASTM F32.02, Search and	ASTM F1422-08(2014), Standard Guide for Using the			
	Public Safety		Rescue - Management and	Incident Command System Framework in Managing Search			
WG4	Operations	(SAR)	Operations	and Rescue Operations	2014	Published	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM F32.02, Search and				
14/04	Public Safety	Search and Rescue	Rescue - Management and	ASTM F1583-95(2012), Standard Practice for	0010		
WG4	Operations	(SAR)	Operations	Communications Procedures—Phonetics	2012	Published	No
	Dublis Ostatu	O and D and	ASTM F32.02, Search and	ASTM F1591-95(2012), Standard Practice for Visual			
	Public Safety	Search and Rescue	Rescue - Management and	Signals Between Persons on the Ground and in Aircraft	0010	Dublished	NI-
WG4	Operations	(SAR)	Operations	During Ground Emergencies	2012	Published	No
	Dublic Cofety	Course and Decours	ASTM F32.02, Search and Rescue - Management and	ASTM E4767.14. Standard Quida for Forma Lload for			
WC4	Public Safety	Search and Rescue	•	ASTM F1767-14, Standard Guide for Forms Used for Search and Rescue	2014	Dublished	No
VVG4	Operations	(SAR)	Operations ASTM F32.02, Search and	Search and Rescue	2014	Published	No
	Public Safety	Search and Rescue	Rescue - Management and	ASTM WK24699, New Guide for Training for Land SAR as		(New) In	
WCA	Operations	(SAR)	Operations	a Level I Out-of-Area Disaster Responder		Development	No
WG4	Operations	(JAR)	ASTM F32.02, Search and	a Level i Out-of-Alea Disastel Responder		Development	INU
	Public Safety	Search and Rescue	Rescue - Management and	ASTM WK25635, New Classification for Additional Human		(New) In	
WCA	Operations	(SAR)	Operations	Tracker Skill Levels		Development	No
WG4	Operations	(JAR)	ASTM F32.03, Search and			Development	INU
	Public Safety	Search and Rescue		ASTM F2209-14, Standard Guide for Training of Land			
WGA	Operations	(SAR)	Education	Search Team Member	2014	Published	No
104	Operations		ASTM F32.03, Search and		2014	Fublisheu	INU
	Public Safety	Search and Rescue		ASTM F2685-14, Standard Guide for Training of a Land			
WGA	Operations	(SAR)	Education	Search Team Leader (STL)	2014	Published	No
104	Operations		ASTM F32.03, Search and	<u>Search reall Leader (STL)</u>	2014	Fublisheu	INU
	Public Safety	Search and Rescue		ASTM F2751-16, Standard Guide for Training of a Land			
WG4	Operations	(SAR)	Education	Search and Rescue Team Member	2016	Published	No
1104	Operations	(OAR)	ASTM F32.03, Search and		2010	T ublished	110
	Public Safety	Search and Rescue		ASTM F2852-17, Standard Practice for Training a Land			
WG4	Operations	(SAR)	Education	Search Tracker	2017	Published	No
1104	Operations	(OAR)	ASTM F32.03, Search and		2017	T ublished	110
	Public Safety	Search and Rescue		ASTM F2890-17, Standard Guide for Hazard Awareness			
WG4	Operations	(SAR)	Education	for Search and Rescue Personnel	2017	Published	No
1104	operations		ASTM F32.03, Search and		2011	1 abilitited	110
	Public Safety	Search and Rescue		ASTM F2958-14, Standard Guide for Helicopter Inland			
WG4	Operations	(SAR)	Education	Search and Rescue (SAR) Technician	2014	Published	No
1104	operations		ASTM F32.03, Search and		2014	1 abilitited	110
	Public Safety	Search and Rescue		ASTM F3024-13, Standard Guide for Training of a Land			
WG4	Operations	(SAR)	Education	Search and Rescue (SAR) Strike Team/Task Force Leader	2013	Published	No
	oporatione	(0/)	ASTM F32.03, Search and	obaron and Hoodad (or itt) dame Foam Factor Forde Esador	2010	i ubiloriou	
	Public Safety	Search and Rescue		ASTM F3026-14, Standard Guide for Helicopter Inland			
WG4	Operations	(SAR)	Education	Search and Rescue (SAR) Crew Chief	2014	Published	No
1104	operations		ASTM F32.03, Search and	Ocaron and Resolute (Or Rey Orlew Onlor	2014	1 abilitited	110
	Public Safety	Search and Rescue		ASTM F3027-13, Standard Guide for Training of Personnel			
WG4	Operations	(SAR)	Education	Operating in Mountainous Terrain (Mountain Endorsement)	2013	Published	No
1107		(0, 11)	ASTM F32.03, Search and	ASTM F3028-13, Standard Guide for Training of Search	2010	i donorioù	
	Public Safety	Search and Rescue		and Rescue Personnel Operating in the Alpine Environment			
WG4	Operations	(SAR)	Education	(Alpine Endorsement)	2013	Published	No
1104	operations	(0/11()	ASTM F32.03, Search and	trapine Endorsementy	2013		140
	Public Safety	Search and Rescue		ASTM F3071-14, Standard Guide for Basic Wilderness			
WG4	Operations	(SAR)	Education	GPS/GNSS Use (GPS/GNSS-IW) Endorsement	2014	Published	No
104	operations	(Crity)			2014		1 NU

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM F32.03, Search and	ASTM F3072-14, Standard Guide for Intermediate			
	Public Safety	Search and Rescue		Wilderness GPS/GNSS Use (GPS/GNSS-IIW)			
WG4	Operations	(SAR)	Education	Endorsement	2014	Published	No
			ASTM F32.03, Search and				
	Public Safety	Search and Rescue		ASTM F3098-16, Standard Guide for Training of Non-			
WG4	Operations	(SAR)	Education	Wilderness Land Search Team Member	2016	Published	No
		-	ASTM F32.03, Search and				
	Public Safety	Search and Rescue		ASTM F3145-15, Standard Guide for Swiftwater/Flood			
WG4	Operations	(SAR)	Education	Rescue Technician Basic	2015	Published	No
			ASTM F32.03, Search and				
	Public Safety	Search and Rescue		ASTM F3193-16, Standard Guide for Training of a Land	0010		
WG4	Operations	(SAR)	Education	Search and Rescue Team Leader	2016	Published	No
	Dublis Ostatu	O and D and	ASTM F32.03, Search and	ACTM MUCOMOZ, New Origin for Minimum Training of		()	
	Public Safety	Search and Rescue	-	ASTM WK28137, New Guide for Minimum Training of		(New) In	
WG4	Operations	(SAR)		Search and Rescue (SAR) Coordinators		Development	No
			ASTM F32.03, Search and	ASTM WK46279, New Guide for Training for Abandoned or			
	Public Safety	Search and Rescue		Inactive Mine Search and Rescue Team Member		(New) In	
WG4	Operations	(SAR)		Endorsement		Development	No
	Public Safety	Search and Rescue	ASTM/NFPA UAS Public Safety			(New) In	
WG4	Operations	(SAR) Search and Rescue	JWG 3 ASTM/NFPA UAS Public Safety	<u>Use Case Scenario – Lost Persons Search and Rescue</u> Use Case Scenario – SAR – (Closed Structures & external		Development	Yes
	Public Safety					(New) In	Maa
WG4	Operations	(SAR) Search and Rescue	JWG 9	environments)		Development	Yes
	Dublis Ostatu	(SAR): sUAS FLIR					
	Public Safety	Camera Sensor					
WG4	Operations	Capabilities Search and Rescue					
	Dublic Cofety	(SAR): sUAS Automated					
	Public Safety Operations	. ,					
WG4	Operations	Waypoint Missions	ASTM E54.09, Homeland				
	Public Safety		-	ASTM E2521-16, Standard Terminology for Evaluating			
WC4	Operations	Response Robots	Security Applications - Response Robots	Response Robot Capabilities	2016	Published	Yes
WG4	Operations	Response Robots	ASTM E54.09. Homeland		2010	Fublisheu	Tes
	Public Safety		Security Applications - Response	ASTM WK58677, Evaluating AerialResponse		(New) In	
WGA	Operations	Response Robots	Robots	RobotSensing: Visual Image Acuity		Development	Yes
1064	Operations	Response Robots	ASTM E54.09, Homeland	RobotSensing. Visual Image Acuity		Development	165
	Public Safety		Security Applications - Response	ASTM WK58925, Evaluating AerialResponse		(New) In	
WGA	Operations	Response Robots	Robots	RobotSensing: Visual Color Acuity		Development	Yes
VV G4	Operations	Neshouse Monors	ASTM E54.09, Homeland			Development	162
	Public Safety		Security Applications - Response	ASTM WK58926, Evaluating AerialResponse		(New) In	
WG4	Operations	Response Robots	Robots	RobotSensing: Visual Dynamic Range		Development	Yes
1104	operations		ASTM E54.09, Homeland			Development	163
	Public Safety		Security Applications - Response	ASTM WK58927, Evaluating AerialResponse		(New) In	
WG4	Operations	Response Robots	Robots	RobotSensing: Audio Speech Acuity		Development	Yes
1104	operations		ASTM E54.09. Homeland	Tobologialing. Addio opeccit Aculty		Development	163
	Public Safety			ASTM WK58928, Evaluating AerialResponse		(New) In	
WG4	Operations	Response Robots	Security Applications - Response Robots	RobotSensing: Thermal Image Acuity		Development	Yes
VV G4	operations		1100018	Nobolociality. Inclinal image Aculty		Development	162

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58929, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotSensing: Thermal Dynamic Range		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58930, Evaluating AerialResponse		(New) In	N/
WG4	Operations		Robots	RobotSensing: Latency of Video, Audio, and Control		Development	Yes
	Dublis Ostatu		ASTM E54.09, Homeland			(Naw) In	
	Public Safety		Security Applications - Response Robots	ASTM WK58931, Evaluating AerialResponse RobotManeuvering: Maintain Position and Orientation		(New) In	Vaa
WG4	Operations		ASTM E54.09, Homeland	Robolimaneuvering. Maintain Position and Orientation		Development	Yes
	Public Safety			ASTM WK58932, Evaluating AerialResponse		(New) In	
WGA	Operations		Robots	RobotManeuvering: Orbit a Point		Development	Yes
WG4	Operations	Response Robots	ASTM E54.09, Homeland	<u>Robolivianeuvening. Orbit a Point</u>		Development	165
	Public Safety			ASTM WK58933, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotManeuvering: Avoid Static Obstacles		Development	Yes
W04	Operations		ASTM E54.09, Homeland	robolivianeuvering. Avoid Otalie Obstacles		Development	103
	Public Safety		Security Applications - Response	ASTM WK58934, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotManeuvering: Pass Through Openings		Development	Yes
	oporationio		ASTM E54.09, Homeland	resolutationing. Faco modgi oponingo		Development	100
	Public Safety		Security Applications - Response	ASTM WK58935, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotManeuvering: Land Accurately (Vertical)		Development	Yes
			ASTM E54.09, Homeland	ASTM WK58936, Evaluating AerialResponse			
	Public Safety		Security Applications - Response	RobotSituational Awareness: Identify Objects (Point and		(New) In	
WG4	Operations		Robots	Zoom Cameras)		Development	Yes
	•		ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58937, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotSituational Awareness: Inspect Static Objects		Development	Yes
			ASTM E54.09, Homeland	ASTM WK58938, Evaluating AerialResponse			
	Public Safety		Security Applications - Response	RobotSituational Awareness: Map Wide Areas (Stitched		(New) In	
WG4	Operations		Robots	Images)		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58939, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotEnergy/Power: Endurance Range and Duration		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58940, Evaluating AerialResponse		(New) In	
WG4	Operations		Robots	RobotEnergy/Power: Endurance Dwell Time		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58941, Evaluating AerialResponse RobotRadio		(New) In	
WG4	Operations		Robots	Communications Range: Non Line of Sight		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety			ASTM WK58942, Evaluating AerialResponse RobotRadio		(New) In	
WG4	Operations		Robots	Communication Range : Line of Sight		Development	Yes
			ASTM E54.09, Homeland				
	Public Safety		Security Applications - Response	ASTM WK58943, Evaluating AerialResponse RobotSafety:		(New) In	V
WG4	Operations		Robots	Lights and Sounds		Development	Yes
	Public Safety		ASTM/NFPA UAS Public Safety	Use Case Scenario – Tactical Operations (Frequency		(New) In	N N
WG4	Operations	Operations	JWG 2	management, communications relay, lost persons)		Development	Yes
	Public Safety	Counter LIAS (C.LIAS)					
VVG4	Operations	Counter-UAS (C-UAS)					

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM F38.03, Unmanned				
			Aircraft Systems (UAS) -				
			Personnel Training, Qualification	ASTM WK62416, New Terminology for Unmanned Aircraft		(New) In	
WG2	Personnel	Terminology	& Certification	<u>Systems</u>		Development	Yes
		L	ASTM F44.91, General Aviation -				
WG2	Personnel	Terminology	Terminology	ASTM F3060-16a, Standard Terminology for Aircraft		Published	No
	- ·	- · ·		IEEE P2025.1 Standard for Consumer Drones: Taxonomy		(New) In	N/
WG2	Personnel	Terminology	IEEE CES/SC/DWG	and Definitions		Development	Yes
WO0	Demonst	T a marke a la an i	ISO/TC 20/SC 16, Unmanned	ISO/CD 21895, Categorization and classification of civil		(New) In	N
WG2	Personnel	Terminology	Aircraft Systems	unmanned aircraft systems		Development	Yes
WO0	Demonst	Manuala	ASTM F37.20, Light Sport	ASTM F2745-15, Standard Specification for Required	0045	Dublished	NI-
WG2	Personnel	Manuals	Aircraft - Airplane	Product Information to be Provided with an Airplane	2015	Published	No
				ASTM F2483-18e1, Standard Practice for Maintenance and			
			ASTM F37.70, Light Sport	the Development of Maintenance Manuals for Light Sport	0010	D 1 F 1	
WG2	Personnel	Manuals	Aircraft - Cross Cutting	<u>Aircraft</u>	2018	Published	No
			ASTM F38.03, Unmanned	ACTM FOOD 40 Over dead One siling the Alexant's First t			
			Aircraft Systems (UAS) -	ASTM F2908-16 Standard Specification for Aircraft Flight			
MOO	Dereennel	Manuala	Personnel Training, Qualification & Certification	Manual (AFM) for a Small Unmanned Aircraft System	2010	Published	Vaa
WG2	Personnel	Manuals		(sUAS)	2016	Published	Yes
			ASTM F38.03, Unmanned				
			Aircraft Systems (UAS) -	ACTM E0220 49. Standard Creativestics for Training and			
woo	Demonstrat	Manuala	Personnel Training, Qualification & Certification	ASTM F3330-18, Standard Specification for Training and	0040	Dublished	N
WG2	Personnel	Manuals		the Development of Training Manuals for the UAS Operator	2018	Published	Yes
			ASTM F38.03, Unmanned	ACTNA M//COOCCO, New Departies for Contification of Dilate			
			Aircraft Systems (UAS) -	ASTM WK29229, New Practice for Certification of Pilots,		(Naur) In	
MOO	Dereennel	Manuala	Personnel Training, Qualification	Visual Observers, and Instructor Pilots and Training		(New) In	Vaa
WG2	Personnel	Manuals	& Certification	courses for Small Unmanned Aircraft Systems (sUAS)		Development	Yes
			ASTM F38.03, Unmanned	ACTN/M//COZ24 New Cresting for Cresting for			
			Aircraft Systems (UAS) -	ASTM WK62734, New Specification for Specification for		() [
MOO	Dereennel	Manuala	Personnel Training, Qualification	the Development of Maintenance Manual for Lightweight		(New) In	Vaa
WG2	Personnel	Manuals	& Certification	<u>UAS</u>		Development	Yes
			ASTM F38.03, Unmanned				
			Aircraft Systems (UAS) - Personnel Training, Qualification	ASTM WK62743, New Specification for Development of		(Marri) la	
MCO	Doroonnol	Manuala				(New) In	Vaa
WG2	Personnel	Manuals	& Certification	Maintenance Manual for Small UAS		Development	Yes
			ASTM F38.03, Unmanned Aircraft Systems (UAS) -	ASTM WK62744. New Practice for General Operations			
				Manual for Professional Operator of Light Unmanned		(Now) In	
MCO	Personnel	Manuala	Personnel Training, Qualification & Certification	Aircraft Systems (UAS)		(New) In Development	Yes
WGZ	Personnei	Manuals	JARUS WG1 - Flight Crew	JARUS FCL GM, Guidance Material to JARUS-FCL		Development	res
MCO	Personnel	Monuolo		Recommendation	Apr 17	Dublished	Voc
vv G2	FEISUIIIEI	Manuals	Licensing	JARUS FCL Recommendations. The document aims at	Apr-17	Published	Yes
			JARUS WG1 - Flight Crew	providing recommendations concerning uniform personnel			
WG2	Personnel	Manuals	Licensing	licensing and competencies in the operation of RPAS	Sep-15	Published	Yes
vv G2		Inaliais		Guidelines for Creating an Unmanned Aircraft System	3ep-13		162
WG2	Personnel	Manuals	NPSTC	(UAS) Program (v2)	2017	Published	Yes
vv G2	F EISUIIIEI	IVIAI IUAIS		Guidelines for Creating an Unmanned Aircraft System	2017	Fublished	165
WG2	Personnel	Manuals	NPSTC	(UAS) Program (v2)	2017	Published	Yes
VV G2	r eisuillei	IVIALIUAIS	117310		2017	Fublished	res

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
			ASTM F38.03, Unmanned				
		UAS Flight	Aircraft Systems (UAS) -	ASTM F3266, Standard Guide for Training for Remote Pilot			
		Crew/Additional Crew	Personnel Training, Qualification	in Command of Unmanned Aircraft Systems (UAS)			
WG2	Personnel	Members	& Certification	Endorsement	2018	Published	Yes
			ASTM F38.03, Unmanned				
		UAS Flight	Aircraft Systems (UAS) -	ASTM WK61763, New Guide for Training for Remote Pilot			
		Crew/Additional Crew	Personnel Training, Qualification	Instructor (RPI) of Unmanned Aircraft Systems (UAS)		(New) In	
WG2	Personnel	Members	& Certification	Endorsement		Development	Yes
			ASTM F38.03, Unmanned				
		UAS Flight	Aircraft Systems (UAS) -	ASTM WK61764, New Guide for Training for Public Safety			
		Crew/Additional Crew	Personnel Training, Qualification	Remote Pilot of Unmanned Aircraft Systems (UAS)		(New) In	
WG2	Personnel	Members	& Certification	Endorsement		Development	Yes
			ASTM F38.03, Unmanned				
		UAS Flight	Aircraft Systems (UAS) -				
		Crew/Additional Crew	Personnel Training, Qualification	ASTM WK62741, New Guide for Training UAS Visual		(New) In	
WG2	Personnel	Members	& Certification	Observers		Development	Yes
		UAS Flight					
		Crew/Additional Crew		Trusted Operator Program (TOP) training protocols for			
WG2	Personnel	Members	AUVSI Remote Pilots Council	remote pilots and training organizations	2018	Published	Yes
		UAS Flight					
		Crew/Additional Crew	Professional Photographers of				
WG2	Personnel	Members	America (PPA)	PPA Certified Drone Photographer	2017	Published	Yes
		UAS Flight	SAE G-30 UAS Operator				
		Crew/Additional Crew	Qualifications & G-10U	SAE ARP5707, Pilot Training Recommendations for			
WG2	Personnel	Members	Unmanned Aerospace Vehicle	Unmanned Aircraft Systems (UAS) Civil Operations	3-Apr-16	Published	Yes
		UAS Flight	SAE G-30 UAS Operator		07.01.10	i ubiloriou	100
		Crew/Additional Crew	Qualifications & G-10U				
WG2	Personnel	Members	Unmanned Aerospace Vehicle	Aerial photography		Future WIP	Yes
		UAS Flight	SAE G-30 UAS Operator				
		Crew/Additional Crew	Qualifications & G-10U				
WG2	Personnel	Members	Unmanned Aerospace Vehicle	Common operator qualifications		Future WIP	Yes
1102		Members	ASTM F38.03, Unmanned				100
			Aircraft Systems (UAS) -				
			Personnel Training, Qualification	ASTM WK60659, New Guide for UAS Maintenance		(New) In	
WG2	Personnel	Maintenance Technicians		Technician Qualification		Development	Yes
WG2	r eisoinei	Compliance/Audits	ASTM F37.70, Light Sport	ASTM F2839-11(2016), Standard Practice for Compliance		Development	165
MCO	Personnel	Programs	Aircraft - Cross Cutting	Audits to ASTM Standards on Light Sport Aircraft	2016	Published	No
WGZ	Personnei	Compliance/Audits	ASTM F37.70, Light Sport	ASTM F3205-17, Standards on Light Sport Aliciant ASTM F3205-17, Standard Practice for Independent Audit	2016	Published	INO
WO0	Dereenal	-			2017	Dublished	Nia
WGZ	Personnel	Programs	Aircraft - Cross Cutting	Program for Light Aircraft Manufacturers	2017	Published	No
			ASTM F38.03, Unmanned				
			Aircraft Systems (UAS) -				
MOC	Demonstra	Compliance/Audits	Personnel Training, Qualification	ASTM WK62730, New Practice for UAS Operator Audit		(New) In	N
WG2	Personnel	Programs	& Certification	Programs_		Development	Yes
			ASTM F38.03, Unmanned				
			Aircraft Systems (UAS) -			a	
		Compliance/Audits	Personnel Training, Qualification	ASTM WK62731, New Practice for UAS Operator		(New) In	
WG2	Personnel	Programs	& Certification	Compliance Audits		Development	Yes
		Human Factors in UAS		ICAO Human Performance Manual (to replace the existing		(New) In	
WG2	Personnel	Operations	ICAO	Human Factors Training Manual)		Development	No

WG#	Topic Area	Sub-Section	Developer / Committee	Designation / Title of Document	Publication/ Target Date	Publication Status	UAS Specific?
WG2		Human Factors in UAS Operations	ICAO	ICAO RPAS Manual		(Revision) In Development	Yes