ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)
Working Group (WG) Architecture (Updated 7/1/20)

The UASSC has established working groups (WGs) to develop the standardization roadmap. Participation in the UASSC is open to UAS stakeholders that have operations in the United States. Participants may sign up for one or more WGs using the sign-up sheet. New topics for version 2 are in ***italicized bold***. There are no WG calls at this time as version 2 was published on June 30, 2020 and future work is TBD.

Working Group	Topics for Discussion	
WG1 – Airworthiness Standards (Roadmap Chapter 6) **Co-Chairs:** • Phil Kenul, Senior Vice President, Aviation and Operations, TriVector Services, Inc. • Mark DeAngelo, Aerospace Standards Engineer, SAE International **Next Call: None Scheduled**	Design & Construction UAS System Safety Quality Assurance/Quality Control Avionics and Subsystems: Command and Control (C2) Link and Communications Navigation Systems Systems Performing Detect and Avoid (DAA) Functions Software Considerations and Approval Flight Data and Voice Recorders Cybersecurity	Electrical Systems Power Sources and Propulsion Systems Noise, Emissions, and Fuel Venting Mitigation Systems for Various Hazards to UAS Parachutes for small UA Maintenance and Inspection Enterprise Operations: Level of Automation/Autonomy and Artificial Intelligence (AI) Blockchain for UAS
WG2 - Flight Operations Standards: General Concerns and Personnel Qualifications (Roadmap Chapters 7 and 10) **Co-Chairs:** • Joe Valasquez, Founder and Chief Flight Engineer, DroneScape, LLC • Jon Gustafson, Senior Principal, Geomatics, Stantec **Next Call: None Scheduled**	Operations: General Concerns: Privacy Continued Operational Safety Beyond Visual Line of Sight Operations Over People Weather Data Handling & Processing UAS Traffic Management Remote ID Geo-fencing ***Aerodrome Facilities for UAS Recreational Operations*** ***UAS Service Suppliers Process & Quality***	Professional Qualifications: Terminology Manuals UAS Flight Crew Additional Crew Members Maintenance Technicians Compliance/Audit Programs Human Factors in UAS Operations

WG3 – Flight Operations Standards: Infrastructure Inspections, Environmental Applications, Commercial Services, and Workplace Safety (Roadmap Chapter 8)
Co-Chairs:
• Brian Daly, Assistant Vice President – Standards & Industry Alliances, AT&T
• Philip Hall, Founding Director & CEO, RelmaTech Inc.
 	
Next Call: None Scheduled
	Vertical Infrastructure Inspections:
	  Power Plants/Industrial Process Plants; Cranes; Building Facades; Low-Rise Residential & Commercial Buildings; Communications Towers
	Linear Infrastructure Inspections:
	  Bridges; Railroads; Power Transmission Lines, Structures, and Environs; ***Hydrocarbon Pipeline Inspections; Airport Operations***
		Environmental Applications:
		  Environmental Monitoring; Pesticide Application; Livestock Monitoring & Pasture Management
		Commercial Services:
		  Package Delivery; **Cargo Transport;** ***Passenger Air Taxi/ Transport (short- & long-haul); Sensing Services; News Gathering***
		  Workplace Safety

WG4 – Flight Operations Standards: Public Safety (Roadmap Chapter 9) **Co-Chairs:** • Kristy Kiernan, Asst. Prof., Program Chair MS in Unmanned Systems, Embry-Riddle Aeronautical Univ. • Eric Schwartz, Quality Project Manager, Power Delivery, Florida Power and Light Company **Next Call: None Scheduled**	sUAS for Public Safety Operations Hazardous Materials Incident Response Transport and Post-Crash Procedures Involving Biohazards Forensic Investigations Photogrammetry Payload Interface and Control for Public Safety Operations	Search and Rescue sUAS IR Camera Sensor Capabilities sUAS Automated Missions During Emergencies Response Robots Public Safety Tactical Operations UAS Detection and Mitigation ***Emergency Management and Disasters*** ***Data Formatting***