ISO/TC20/SC16
UAS Subcommittee

Presented to: ANSI

By: Mr. Cortney Robinson

Date: 19 May, 2017

The Need for Standards

- The level of standardization for UAS is extremely low

- As of 2014, the number of UAS development centers and manufacturers was increasing by 3-7% annually

- Few uniform CNS/ATM standards, rules and regulations, resulting in a significantly more difficult operating environment around airports and residential areas

- Physical and cyber security concerns

Background

- ISO has published 21,554 International Standards (strong brand)
- UAS Subcommittee proposed in 2014
- Subcommittee established and first met in 2015
- Current membership is from 20 countries
    - APAC states include China, Japan, Korea, New Zealand, Iran and Russia
- Strong interest globally
- 40 Subcommittee members + 80 WG members

Subcommittee Scope

- Both large and small UAS
- Focus on safety and quality
- "…Develops international standards in the field of unmanned aircraft systems (UAS) including, but not limited to classification, design, manufacture, operation (including maintenance) and safety management of UAS operations."

Current Working Groups

- WG1 (General Specifications) – *This Working Group specifies general requirements for UAS for civil applications in support of other standards created within ISO/TC 20/SC 16.*

- WG2 (Product Manufacturing and Maintenance) – *This Working Group specifies the quality and safety requirements for components of unmanned aircraft systems (UAS) to influence the design and manufacturing process.*

- WG-3 (Operations and Procedures) – *This Working Group develops international standards that detail the requirements for safe civil RPAS/UAS operations.*

4 Approved Work Items

ISO 21384-1 - *General requirements for UAS for civil and commercial applications, UAS terminology and classification*

ISO 21384-2 - *Requirements for ensuring the safety and quality of the design and manufacture of UAS*

ISO 21384-3 - *Requirements for safe civil RPAS/UAS operations and applies to all types, categories, classes, sizes and modes of operation of UAS*

ISO 21895 - *Requirements for the categorization and classification of civil UAS*

Call for Experts

Seeking experts in all areas within our scope, in particular:

- Autonomy
- Categorization and classification
- Quality and safety programs
- Legal and insurance aspects of UAS manufacture and operation

Requirements

- In general, ability to contribute to working groups directly via monthly teleconference or national mirror committee
- National standards body will vet candidates

Thank you for your attention… questions welcome!

For information contact:

Mr. Cortney Robinson (ISO/TC20/SC16 Secretary)
cortney.robinson@aia-aerospace.org