

ANSI Unmanned Aircraft Systems Standardization Collaborative (UASSC)

2019 Plenary Meeting

Working Group 3 Breakout Report



September 12, 2019

Working Group 3

Flight Operations Standards: Critical Infrastructure Inspections & Commercial Services

Questions Related to the Roadmap and Roadmap Update

- ◆ What are the top UAS issues of concern for your organization?
- ◆ What issues, activities, or initiatives are missing from the roadmap or not adequately covered in your view?
- ◆ Please provide any comments that you have on the roadmap's organization.
- ◆ Who is not here today who should be involved in this effort?

Questions Related to UAS Standardization

- ◆ What topics are not being adequately addressed in UAS standardization?
- ◆ What overlap or duplication exists in UAS standardization?

1. What are the top UAS issues of concern for your organization?

- Building Inspection: Commercial & Residential
- Above ground and below ground pipeline inspections.
- Broaden the scope for power infrastructure - distribution substation and generation in all its forms.
- Indoor and enclosed spaces (mines, warehouses).
- Marine applications for shipbuilding – interior exterior (tanks in general).
- Wind turbines (blades).
- A gap for SMS or SRM to be established and mandated.
- Standardization for how people are operating at different telecom sites.
- Medical clearances for pilots (high hazard inspections).
- Critical incident stress management standards.
- Training requirements to make environment safer.

2. What issues, activities, or initiatives are missing from the roadmap or not adequately covered in your view?

- Security Stds cyber locks (clearing people for working critical assets)
 - ◆ Critical missions using COTS aircraft.
- Environmental – protection of wildlife.
- Lack of standardization for qualifying sensors (minimum accuracy for industries/applications).
- No standard to qualify sensors from different manufacturers
 - ◆ Standards for testing accuracy and reliability of sensors. Minimum accuracy for specific industries/applications. People spending \$ doing the same types of tests. Inspections linear or vertical.

3. Please provide any comments that you have on the roadmap's organization.

- Occupational Safety distributed across chapters or in one chapter.
- Confusing use of terminology (hazard and safety mitigation for the drone itself or for the people from the zone).
- Cross-references within subchapters. Help understand how a topic is being covered in different areas.
- Standard definition of system technologies: automated, autonomous, AI.

4. Who is not here today who should be involved in this effort?

- OSHA
- Mine Safety and Health Administration (MSHA)
- CPWR (Center for Construction Research and Training)
- Labor unions (United Steel workers, United Mine Workers of America, AFL-CIO, Laborers, others)
- American Society of Safety Professionals (ASSP)
- Regulatory bodies that are utilizing UAS in research programs
 - ◆ NERC, FERC
- PHEMSA (Pipeline & Hazardous Materials Safety Administration)

5. What topics are not being adequately addressed in UAS standardization?

- Safety & health of workers in close proximity or shared space with drones.
- External load operations (separate from commercial package delivery).
- Application of materials – sprays, painting a bldg. with an unmanned system and inspecting it after.
- Insurance inspections: e.g. rooftop after storm, post wildfire areas
 - ◆ Capture scene exactly as it was

6. What overlap or duplication exists in UAS standardization?

- Incident command standards for airspace separation and use.
- UAM.