Advance Air Mobility Standards Update

2021 Infrastructure Summit

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What will the certified aircraft of the future be?
The Path Forward
Infrastructure Compatibility

Determining Factors
Performance / Fuel / All Electric / Hybrid Electric / Hydrogen

Airport = Heliport = Vertiport
Standards Groups Involved

- International Civil Aviation Authority (ICAO)
- Civil Aviation Authorities (CAA)
- Federal Aviation Administration (FAA)
- European Union Aviation Safety Agency (EASA)
- ASTM International
- SAE International
- International Code Council
  - International Building Code
  - International Fire Code
  - International Electric Code
- National Fire Protection Association (NFPA)
• ASTM WK59317

• New Specification for Vertiport Design

• Standard initiated 06/09/2017

• Currently out for its 4th round of balloting.

• Balloting closes March 2021
NFPA – 418, Standard for Heliports (2021)
• Technical committee recommendation:

“A reserved chapter 11. Vertiports and Vertistops, has been added. The technical committee will request public input and public comments during the next revision cycle to help create the specific requirements for electric/hybrid aircraft”.

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• NFPA – 418 (2021) Expanded Scope

• 1.1.1 This standard specifies the minimum requirements for fire protection for heliports, vertiports, vertistops and rooftop hangars.
• NFPA – 418 (2021) New Definitions

• **3.3.10 Vertiport.** A generic reference to the area of land, water, or structure used or intended to be used, for the landing and takeoff of vertical takeoff and landing (VTOL) aircraft, together with associated buildings and facilities.

• **3.3.11 Vertistop.** An area similar to vertiports, except that no fueling, defueling, maintenance, repairs, or storage of aircraft are permitted.
## Chapter 11 Vertiports and Vertistops (Reserved)

- General
- Electric Storage Systems
- Charging Stations
- Emergency Electrical Shutoff System
- Electrical Testing
- Aircraft Batteries
- Battery Storage Facilities
- Electrical Safety
- Battery Fire Containment

- Hybrid/Electric Aircraft
- Hydrogen Fuel Cells
- Hydrogen Fueling
- Fire Protection
- Fire Fighting Equipment
- Portable Fire Extinguishers
- Mixed Case Power / Fuel
- Other Considerations
THANK YOU

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