

ASCE STANDARD ANSI/ASCE/T&DI 21-21

Automated People Mover Standards

Advanced Transit Association Recommendations for Revision Consideration

1. Items likely applicable only to Automated Transit Networks

- a) Table 3-1 Risk Assessment. Basing mean time between hazardous events (MTBHE) on operating hours is not equitable. Different systems have differing numbers of passengers, vehicles and stations. Some ATN systems under consideration have hundreds of stations, tens of thousands of vehicles and millions of daily passengers while some systems only have two stations and a few vehicles with hundreds of daily passengers. Furthermore, MTBHE requirements that are too strict may limit capacity, resulting in thousands more people being relegated to road transportation and made more likely to get killed. Exploration of these issues is proposed in hopes of developing improved criteria that increase overall transportation safety while maintaining high standards for ATN.
- b) Chapter 4 System Dependability. Similar to 1a above, system dependability should not be a function of system operating hours but some other measure such as passenger miles or passenger travel time.
- c) Suspended ATN systems are under development. Issues related to suspended systems are not addressed. It is proposed to consider and address issues specifically related to suspended systems.
- d) Updating Section 7.12.5 Grounding and Chapter 9 (Electrical equipment) for vehicles that are battery-powered;
- e) Reviewing which sections of NFPA 130 are really applicable to ATN vehicles (considering smaller vehicle size and shorter evacuation time
- f) Addressing platooning (non-physical coupling)
- g) Non friction-type emergency braking that is more resilient to ice and snow, etc.
- h) Section 6.3 Passenger Information Devices may need modifications for ATN station configurations

2. Items likely to be generally applicable

- a) Section 7.1 Vehicle Capacity and Load should be revisited considering changes in average passenger weights

ATRA welcomes any APM Standards Committee member to work with its subcommittee on any or all of the above issues.”