



NATIONAL FIRE PROTECTION ASSOCIATION

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MINUTES

NFPA Technical Committee on Spaceports (SPA-AAA) NFPA 461 Pre-First Draft Meeting

January 11 & 13, 2022
February 8 & 18, 2022
12:00 p.m. – 4:00 p.m. (ET)

Teleconference

1. **Call to order.** Jeff Tubbs, chair, called the meeting to order at 12:05 on January 1st, 2022.
2. **Introductions.** Attendees introduced themselves and identified their affiliation. NFPA staff took attendance.
3. **Chair report.** Jeff Tubbs welcomed attendees and provided an overview of the meeting.
4. **Staff liaison report.** Stephen Ganoë provided an overview of the standards development process and the revision cycle schedule.
5. **NFPA 461 Draft Development.**
 - a. **Task group reports.** The following task groups provided their reports and recommendations.
 - i. **Chapter 4.** Doug Fisher. The task group provided an update on work done to chapter 4. The task group will continue to work on the chapter during the documents first cycle.
 - ii. **Chapter 5.** Jeff Klinkhardt. The task group provided an update on work done to chapter 5. The task group will continue to work on the chapter during the documents first cycle.
 - iii. **Chapter 6.** Doug Fisher. The task group provided an update on work done to chapter 6. The task group will continue to work on the chapter during the documents first cycle.
 - iv. **Chapter 7.** Mark Fessenden. The task group provided an update on work done to chapter 7. The task group will continue to work on the chapter during the documents first cycle.
 - v. **Chapter 8.** Mark Fessenden. The task group provided an update on work done to chapter 8, this resulted in removing chapter 8 and moving its contents into chapter 7. The chapter 8 task group will continue to work on the chapter 7 during the documents first cycle.
 - vi. **Chapter 9.** Jon'ta Paten. The task group provided an update on work done to chapter 9. The task group will continue to work on the chapter during the documents first cycle.

vii. **Chapter 10.** Jon'ta Paten. The task group provided an update on work done to chapter 10. The task group will continue to work on the chapter during the documents first cycle.

b. **Chapter 1, 2, & 3.** The committee worked on chapters 1, 2, & 3. All extracts and references will be updated by NFPA staff based on content in the document.

6. **Document Process.** The technical committee on spaceports voted to submit the document with a three-year revision cycle to the Standards Council for consideration.

7. **Future meetings.** The next committee meeting will be determined after a decision by the Standards Council. A meeting notification will be posted at www.nfpa.org/461next when the meeting is scheduled.

Attendees

Committee Members:

X	Tubbs, Jeffrey	Chair	Arup
X	Dudley, Jeffry	Principal	National Aeronautics & Space
X	Fessenden, Mark	Principal	Johnson Controls
X	Finnegan, Daniel	Principal	Siemens Smart Infrastructure
X	Fisher, Douglas	Principal	Fisher Engineering, Inc.
X	Geary, Chris	Principal	Virgin Orbit
X	Gollner, Michael	Principal	University of California
X	Golnaraghi, Fred	Principal	Jet Propulsion Laboratory
X	Heffernan, Rick	Principal	Automatic Fire Alarm Association, Inc.
X	Ibarreta, Alfonso	Principal	Exponent, Inc.
X	Klinkhardt, Jeffrey	Principal	Kiewit
	Lanius, Steven	Principal	Blue Origin LLC.
X	McPhee, Mercedes	Principal	Commercial Spaceflight Federation
X	Megasko, Ronald	Principal	Marsh USA Inc.
X	Miller, Jesse	Principal	Genesis Oil and Gas
X	Miller, John	Principal	US Coast Guard
X	Nelson, Andrew	Principal	Spaceport Camden
X	Paten, Jon'ta	Principal	Cape Canaveral Air Force Station Fire And
X	Reynolds, Martin	Principal	US Space Force

	Rizner, Glenn	Principal	US Federal Aviation Administration
X	Scott, Jason	Principal	NASA Marshal Space Flight Center
X	Strub, Daniel	Principal	US Space Force
X	Trevino, Reynaldo	Principal	Trevino Technical Services
	Atkins, James	Alternate	NASA Wallops Flight Facility
X	Biteau, Hubert	Alternate	S-E-A, Ltd.
X	Halt, Tara	Alternate	US Federal Aviation Administration
X	Hansen, Raymond	Alternate	US Space Force
X	John, Jeremy	Alternate	Fisher Engineering, Inc.
X	Minatsaghanian, Armen	Alternate	Jet Propulsion Laboratory
X	Parrish, Thomas	Alternate	Automatic Fire Alarm Association, Inc.
	Vega, Alejandro	Alternate	US Space Force
X	Watson, Bill	Alternate	Siemens
X	Ganoe, Stephen	Staff Liaison	National Fire Protection Association

Guests:

Jason Frank	NASA
Maria Marks	Siemens
Adam Curtis	National Instruments

Total number in attendance: 31