

Office of Commercial Space Transportation

Release of Recommended Practices for Human Space Flight Occupant Safety

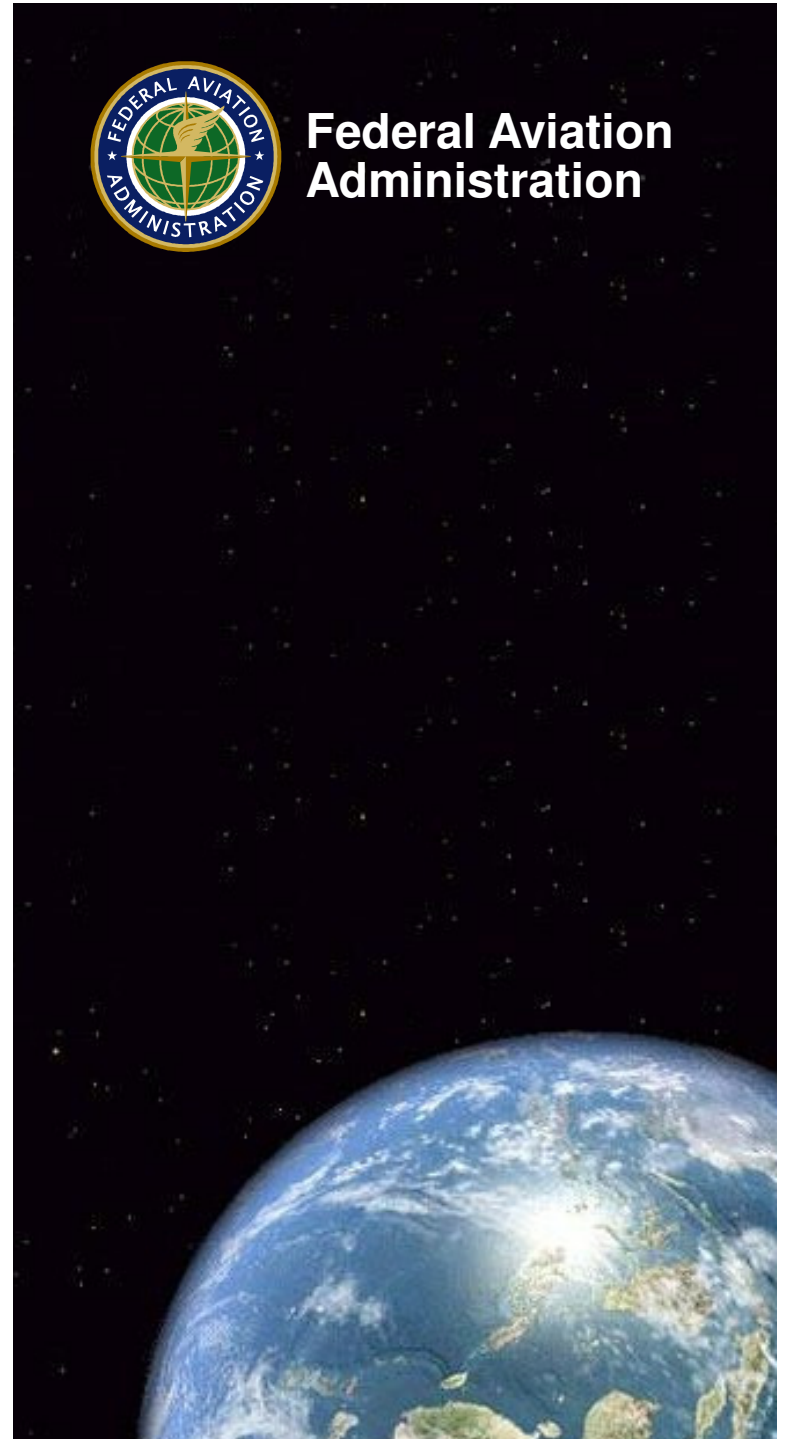
Presented to: COMSTAC Operations WG

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**Federal Aviation
Administration**



Outline

- **History**
- **Purpose**
- **Comment Themes**
- **Noteworthy Changes**
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History

- July 31, 2013 - Submitted to COMSTAC the draft “Established Practices for Human Space Flight Occupant Safety” for its review.
- September 23, 2013 - Submitted to COMSTAC a revised version that provided rationale for each established practice.
- September 24, 2013 - Kicked-off COMSTAC review.
- November 12, 2013 - Kicked-off a NASA review of the draft.
- February, 2014 - Began review of COMSTAC and NASA comments.
- August 27, 2014 - Completed “Recommended Practices for Human Space Flight Occupant Safety” Version 1.0.

Purpose

- To provide a compilation of practices that AST believes are important and recommends for commercial human space flight occupant safety.
- To enable a dialogue among government, industry, and academia.
- To help identify subject areas that could benefit from industry consensus standards.
- May serve as a starting point for a future rulemaking project, should there be a need for such an effort at some point in the future.

Comment Themes

- Purpose of Document
- Process Based Practices
- Clean Sheet Approach
- Verification / Cost
- Document Organization
- Medical Considerations



Noteworthy Changes

- Added:
 - 1.1.3 - Flight Crew Rest
 - 1.1.5 - Biological Waste and Wet Trash Management
 - 1.2.5 - Mechanical Hazards Protection
 - 1.2.10 - Emergency Response to Loss of Cabin Pressure Integrity
 - 1.2.11 - Emergency Response – Abort and Escape
- Removed “System Certification”
- Modified 3.4.1 – Flight Crew Medical Fitness for Flight
- Minimized numerical limits (e.g., 1.3.10 PNP, 1.4.17 Egress)

Way Forward

- AST's focus in the near term is to work with industry on standards development, rather than to update the Recommended Practices document.
- However, comments are appreciated, and can be sent to:

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