Office of Commercial Space Transportation

Release of Recommended Practices for Human Space Flight Occupant Safety

Presented to: COMSTAC Operations WG
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Outline

• History

• Purpose

• Comment Themes

• Noteworthy Changes

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History


- 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.

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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