NASA Human Integration Design Handbook (HIDH)
Revitalization of Space-Related Human Factors, Environmental, and Habitability Data and Design Guidance

STANDARDS

NASA Space Flight Human System Standard
Volume 1
Cross-Health
(online at http://hidd.nasatech.com)

NASA Space Flight Human System Standard
Volume 2
Habitability and Environmental Health
(online at http://hidd.nasatech.com)

EXAMPLE:
"The vehicle / habitat atmosphere including pressure, humidity, temperature ... shall be controlled in a manner that yields a healthy comfortable environment of respirable air to the crew"

PROGRAM-SPECIFIC REQUIREMENTS

These documents drive program-specific requirements

EXAMPLE:
"The system shall maintain the atmospheric temperature within the range of 18 °C (64.4 °F) to 27 °C (80.6 °F) during all nominal flight operations, excluding suited operations, ascent, entry, landing, and post-landing.

Human Integration Design Handbook (HIDH)
Provides guidance and data to aid vehicle / habitat designers in human-system integration
Aids requirements writers in development of human-system integration requirements from SFHSS Standards

Handbook Chapters include:
- Anthropometry And Biomechanics
- Human Performance Capabilities
- Natural And Induced Environments
- Architecture
- User Interfaces
- Hardware And Equipment
- Facility Management
- Health Management
- Extra-Vehicular Activity (EVA)

NASA-JSC HIDH development team has finalized the format and began developing section with subject matter experts. Handbook expansion and maintenance is planned to assure its retention as a resource for human spaceflight. If you are interested in participating in the writing, reviewing, enhancing of this document, contact any of the below:

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