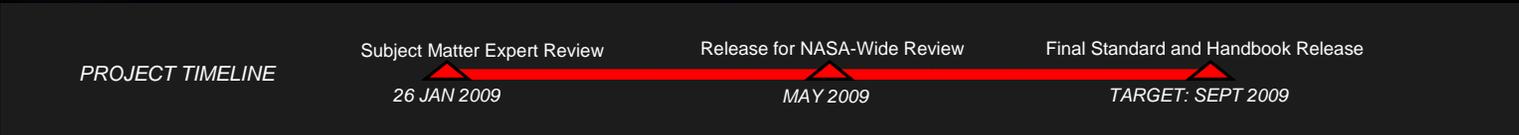




# NASA Space Flight Human System Standard

Revitalization of Space-Related Human Factors, Environmental, and Habitability Data and Design Guidance

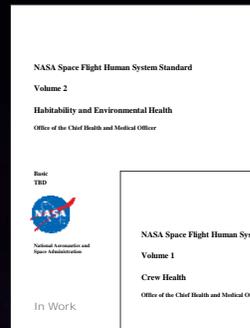


- Space Flight Human System Standard**
- Updates crew health and performance standards
  - Defines standards that shall be met on all systems with human crews (spacecraft landers, habitats, rovers, EVA suits, etc.)
  - Requires that program-specific requirements be written to meet the standard

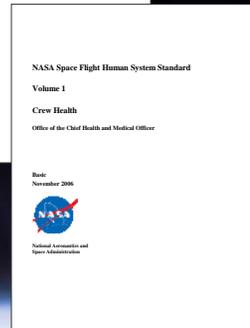
## STANDARDS



- NASA-STD-3000**
- Served as NASA's first human factors standard
  - Specified how to design systems to support human health, safety, and productivity during space flight
  - Written primarily for the Space Station
  - Last update: 1995



**EXAMPLE:**  
"The system shall be able to maintain thermal conditions in the Comfort Zone as shown in Figure 5.3.2-3 throughout all nominal mission phases."



These documents drive  
*Program -Specific Requirements*

## 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."

## HANDBOOK



**EXAMPLE:**

- Data on temperature effects on human physiology and performance
- Guidance for limits and implementation based on expertise, lessons learned

- Human Integration Design Handbook (HIDH)**
- Provides guidance and data as resources for *designers* of systems with crews
  - Aids *requirements writers* in development of program-specific human-system integration requirements