

## MISSION

- Educate, inform, and guide NASA programs and personnel.
- Promote technical excellence and further mission success by enhancing NASA's technical capabilities through standardization.
- Promote NASA's use of voluntary consensus standards and facilitate participation in their development.
- Promote selection and tailoring of technical standards for program and project requirements, including those that are NASA endorsed.
- Provide the NASA community with easy access to essential standards, specifications, related application notes, lessons learned, and other documentation, thereby improving efficiency and reducing cost.

## OBJECTIVES

- Enhance technical capabilities and safety across NASA by leveraging best practices representing the most current proven technology to mitigate risks.
- Facilitate participation in development of voluntary consensus standards and their adaptation for use to meet NASA's needs.
- Manage development of NASA technical standards, specifications, and handbooks to meet NASA's unique needs.
- Provide single-point, eAuthorization access via the NASA Technical Standards System (NTSS) for all authorized NASA and NASA contractor users.
- Provide electronic notification to users of changes to designated technical standards to verify current version and to determine if changes impact program/project requirements.

## AUTHORITY

- OMB Circular No. A-119, Federal Participation in the Development and Use of Voluntary Consensus Standards
- NPD 7120.4, NASA Engineering and Program/Project Management Policy
- NPR 7120.10, Technical Standards for NASA Programs and Projects



NTSS provides access to a wealth of engineering and technical standards in one convenient location at [standards.nasa.gov](http://standards.nasa.gov)

### Center Representatives

Access NASA Engineering Standards Panel (NESP) Members' information at [standards.nasa.gov](http://standards.nasa.gov)  
> Program Resources  
> **NASA Engineering Standards Panel (NESP) Members**

### Customer Support

Customer support is available via "Email Feedback" at [standards.nasa.gov](http://standards.nasa.gov)

National Aeronautics and Space Administration

**Marshall Space Flight Center**  
Huntsville, AL 35812  
[www.nasa.gov/centers/marshall](http://www.nasa.gov/centers/marshall)

[www.nasa.gov](http://www.nasa.gov)

National Aeronautics and  
Space Administration



NASA

# TECHNICAL STANDARDS

PROGRAM



Sponsored by the

**Office of the Chief Engineer**

[standards.nasa.gov](http://standards.nasa.gov)

Access the most current documents available: <https://standards.nasa.gov>

### Features

- Easy to use, single-point, one-stop instantaneous access to NASA Technical Standards, voluntary consensus standards from specified Standards Developing Bodies, and standards from other government agencies at no cost to authorized users
- Electronic notification from Watch Lists and Alerts provided when changes occur to designated standards
- Integration of/link to Lessons Learned from the Agency's Lessons Learned Information System to applicable technical standards
- Integration of Application Notes from users having unique insight directly related to the use or application of specific standards
- Email Feedback process
- Usage metrics

### Assurance of Standards Copyright Compliance

- Users must comply with copyright terms established by Standards Developing Bodies.
- Documents are watermarked for further assurance when it is necessary to print a document.
- Copyright infringement violations that can result in extensive legal costs are avoided.
- Personal and NASA liabilities are reduced.

### Supports Data and Information Management

- Eliminates duplication of document orders from individuals, departments, and libraries, thereby reducing cost to the Agency

### Reduces Risks

- Reduces the risk of making decisions or taking actions based on outdated information

### "Standards" Definition

- A standard is a document that establishes uniform engineering and technical requirements for processes, procedures, practices, and methods that have been endorsed as standard, including requirements for selection, application, and design criteria of an item.
- "NASA Technical Standards" are technical standards, specifications, and handbooks developed and approved for use by NASA Headquarters Offices.

### Workflow Optimization

- Access the most current technical standards available, maintained under version control
- Access historical technical standards

## Examples of Standards Developing Bodies Providing Standards via NTSS

- Acoustical Society of America
- Aerospace Industries Association/National Aerospace Standards
- Aluminum Association
- American Association of Textile Chemists and Colorists
- American Bearing Manufacturer's Association
- American Concrete Institute
- American Conference of Governmental Industrial Hygienists
- American Institute of Aeronautics and Astronautics
- American Institute of Steel Construction
- American National Standards Institute
- American Petroleum Institute
- American Society for Nondestructive Testing
- American Society for Quality
- American Society of Civil Engineers
- American Society of Heating, Refrigerating, and Air-Conditioning Engineers
- American Society of Mechanical Engineers
- American Society of Safety Engineers
- American Water Works Association
- American Welding Society
- ASTM International
- Battelle
- British Standards
- Builders Hardware Manufacturers Association
- Canadian Standards Association
- Compressed Gas Association
- Electronic Components, Assembly, and Materials
- Electronic Components Industry Association
- Electrostatic Discharge Association
- Government Electronics and Information Technology Association
- Illuminating Engineering Society of North America
- Industrial Fasteners Institute
- Institute of Environmental Sciences and Technology
- Insulated Cable Engineers Association
- International Code Council
- International Electrotechnical Committee
- International Organization for Standardization
- International Society for Automation
- IPC International
- JEDEC Solid State Technology Association
- Manufacturing's Standardization Society
- National Board of Boiler and Pressure Vessel Inspectors
- National Electrical Contractors Association
- National Electrical Manufacturers Association
- National Electrical Testing Association
- National Fire Protection Association
- SAE International
- Tech America
- Telecommunications Industry Association
- Underwriters Laboratories