

<b>JSC Safety and Health Handbook</b>	JPR No.	<b>1700.1K</b>
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## **APPENDIX C. REFERENCED DOCUMENTS**

The following documents apply to your work as specified in individual chapters.

### **United States Code**

Clean Air Act of 1990, 42 U.S.C. Section 7401, et seq.  
The Federal Insecticide, Fungicide, and Rodenticide Act, 7 U.S.C. Chapter 6, Subchapter II  
Privacy Act of 1974, 5 U.S.C. Section 552a  
Services Contract Act of 1965, 41 U.S.C. Section 351  
Walsh-Healey Public Contracts Act, 10 U.S.C. Section 7299

### **Public Law**

Public Law 91-596, "Occupational Safety and Health Act of 1970"  
Public Law 100-678, "Public Buildings Amendments Act of 1988"

### **Executive Order**

Executive Order 12196, "Occupational Safety and Health Programs for Federal Employees."

### **Federal Acquisition Regulations**

Federal Acquisition Regulations  
FAR Part 8, "Required Sources of Supplies and Services  
FAR Subpart 17.5, "Interagency Acquisitions Under the Economy Act"  
FAR Subpart 22.4, "Labor Standards for Contracts Involving Construction"  
FAR Subpart 22.6, "Walsh-Healey Public Contracts Act"  
FAR Subpart 22.10, "Service Contract Act"  
FAR Subpart 23.3, "Hazardous Material Identification and Material Safety Data"  
FAR 52.223-3, "Hazardous Material Identification and Material Safety Data"

### **Code of Federal Regulations**

10 CFR, "U.S. Nuclear Regulatory Commission Rules and Regulations"  
  
16 CFR 1500, "Hazardous Substances and Articles; Administration and Enforcement Regulations"  
  
21 CFR 1000 – 21 CFR 1040, "Food and Drug Administration Rules and Regulations"  
21 CFR 1040.10, "Laser products"  
21 CFR 1040.11, "Specific purposes of laser products"  
  
29 CFR 1904.10, "Recording and Reporting Occupational Injury and Illness"  
  
29 CFR 1910, "Occupational Safety and Health Standards, General Industry"  
  
29 CFR 1925, "[Safety and Health Standards for Federal Service Contracts](#)"  
  
29 CFR 1926, "Safety and Health Regulations for Construction"

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29 CFR 1960, “Basic Program Elements for Federal Employee Occupational Safety and Health Programs and Related Matters”

29 CFR 1977, “Discrimination Against Employees Exercising Rights Under the Williams-Steiger Occupational Safety and Health Act of 1970”

29 CFR 1990. [“Identification, Classification, and Regulation of Potential Occupational Carcinogens”](#)

40 CFR, “Protection of Environment”

42 CFR 84, “Approval of Respiratory Protective Devices”

45 CFR 46, “Protection of Human Research Subjects”

49 CFR, “Transportation”

49 CFR, Subchapter C, “Hazardous Materials Regulations”

49 CFR 172–180, “Department of Transportation Regulations for Transportation of Hazardous Materials”

49 CFR 571, “Federal Motor Vehicle Safety Standards”

#### **OMB Circular**

OMB No. 1220-0029, “Recordkeeping Guidelines for Occupational Injuries and Illnesses”

#### **NASA Policy Directives**

NPD 1382.17, “NASA Privacy Policy”

NPD 7100.8, “Protection of Human Research Subjects”

NPD 8710.1, “Emergency Management Program”

#### **NASA Procedural Requirements**

NPR 1441.1, “NASA Records Retention Schedules”

NPR 1800.1, “NASA Occupational Health Program Procedures”

NPR 3792.1, “Plan for a Drug-Free Workplace”

NPR 4100.1, “NASA Materials Inventory Management Manual”

NPR 4200.1, “NASA Equipment Management Procedural Requirements”

NPR 8621.1, “NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating, and Recordkeeping”

NPR 8715.1, “NASA Safety and Health Handbook, Occupational Safety and Health Programs”

NPR 8715.2, “NASA Emergency Preparedness Procedural Requirements”

NPR 8715.3, “NASA General Safety Program Requirements”

NPR 8820.2, “Facility Project Requirements”

#### **JSC Policy Charter**

JPC 1700.2, “JSC Safety and Health Action Team (JSAT) Charter”

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## **JSC Policy Directives**

JPD 1107.1, "The JSC Organizations"  
 JPD 1700.3, "JSC Safety and Health Policy"  
 JPD 1712.1 "Management Notification Policy for Use in the Event of Serious Illness, Injury, or Death"  
 JPD 4500.1, "Pyrotechnics – Logistics Management"  
 JPD 8080.4, "Exposure to Reduced Atmospheric Pressure"  
 JPD 8820.3, "Facility Configuration Management Program"

## **JSC Procedural Requirements**

JPR 1040.4, "JSC Emergency Preparedness Plan"  
 JPR 1281.6, "Procurement"  
 JPR 1281.14, "Corrective Action, Preventative Action and Continuous Improvement"  
 JPR 1410.2, "JSC Directives Procedural Requirements"  
 JPR 1440.3, "JSC Files and Records Management Procedures"  
 JPR 1600.3, "JSC Traffic Regulations"  
 JPR 1710.13, "Design, Inspection, and Certification of Pressure Vessels and Pressurized Systems"  
 JPR 5310.7, "JSC Safety, Reliability, and Quality Assurance Audits and Surveillances of JSC Contractors"  
 JPR 1830.3, "Limitations Applicable to Personnel Exposed to Diving"  
 JPR 1860.2, "Radiological Health Manual"  
 JPR 5322.1, "JSC Contamination Control Requirements Manual"  
 JPR 8550.1, "JSC Environmental Compliance Procedural Requirements"  
 JPR 8553.1, "JSC Environmental Management System Manual"

## **NASA Standards**

NASA-STD-6001, "Flammability, Off-Gassing and Compatibility Requirements and Test Procedures"  
 NASA-STD 8719.7, "Facility System Safety Guidebook"  
 NASA-STD 8719.9, "Standard for Lifting Devices and Equipment"  
 NASA-STD-8719.10, "Standard for Underwater Facility and Non-Open Water Operations"  
 NASA-STD-8719.11, "Safety Standard for Fire Protection"  
 NASA-STD-8719.12, "Explosives Safety"  
 NASA-STD-8719.13, "NASA Software Safety Standard"  
 NASA-STD-8739.3, "Soldered Electrical Connections"  
 NASA-STD-8739.4, "Crimping, Interconnecting Cables, Harnesses, and Wiring"  
 NASA-STD-8739.5, "Fiber Optic Terminations, Cable Assemblies, and Installation "

JSC 17773, "Preparing Hazard Analyses for JSC Ground Operations"  
 JSC 18323, Qualification of Aerospace, Aircraft, and General Application Fusion Welders  
 JSC 20483, "JSC Institutional Review Board, Guidelines for Investigators Proposing Human Research for Spaceflight and Related Investigations"  
 JSC 20793, "Crewed Space Vehicle Battery Safety Requirements"  
 JSC 22803, "JSC Reduced Gravity Program User's Guide"

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JSC 25159, "Toxicological Hazard Assessments on Batteries used in Space Shuttle Missions"  
JSC Personnel Handbook  
JSC Policy on Smoking

JSC-SP-R-0022A, "Vacuum Stability Requirements of Polymeric Materials for Spacecraft Application"

JSC *Specifications Kept Intact (SPECS-IN-TACT)* submaster "01 41 00 00 80, "CONTRACTOR SAFETY AND HEALTH PROGRAM"

Letter UO, dated August 6, 1993, "Federal Agency Recordkeeping" from the Director of Occupational Health and Aerospace Medicine Division, NASA Headquarters

NASA MSC-SP-40M39580B, "Connectors, Electrical, Zero-G, Specifications"  
NASA SD-B-0023-A, "Helium/Oxygen Breathing Mixtures"

NFS 1823.7001, "NASA Contract Clauses"  
NFS 1823.2, "Energy and Water Efficiency and Renewable Energy"  
NFS 1823.3, "Hazardous Material Identification and Material Safety Data"  
NFS, 1823.370, "Acquisition of potentially hazardous items from or through another government agency"  
NFS 1852.223-70, "Safety and Health"  
NFS 1852.223-73, "Safety and Health Plan"  
NFS 1852.223-75, "Major Breach of Safety and Security"

JPI 52.223.92, "JSC Hazardous Materials Use"

DRD SA-1-1, "Safety and Health Plan"  
DRD SA-1-8, "System Safety Program Plan"

**Non-NASA Governmental Standards**

AFM 91-201, "Explosives Safety Standard"

AMC-R 385-100, "Safety Manual"

AMS-STD-1595, "Qualification of Aircraft, Missile, and Aerospace Fusion Welders"

AWS B2.1, "Specification for Weld Procedure and Performance Qualification"

DOD 6055.9-STD, "Ammunition and Explosives Safety Standard"

EM 385-1-1, "U.S. Army Corps of Engineers Safety and Health Requirements"

Federal Standard No. 313, "Material Safety Data, Transportation Data and Disposal Data for Hazardous Materials Furnished to Government Activities"

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FDA Food Code

Langley Research Center Handbook 1740.4, "Facility System Safety Analysis and Configuration Management"

Marshall Space Flight Center specification 40M39580B

MIL-PRF-27210, "Oxygen, Aviator's Breathing, Liquid and Gas"

MIL-STD-130b, "Connections, Electrical, Solderless, Wrapped"

MIL-STD-882, "System Safety Program Requirements"

MIL-STD-1330, "Precision Cleaning and Testing of Shipboard Oxygen, Helium, Helium-Oxygen, Nitrogen and Hydrogen Systems"

NIOSH 75-115, "Engineering Controls for Welding Fumes"

NIOSH 77-131, "Welding Safety"

NIOSH 78-138, "Safety and Health in Arc Welding and Gas Welding and Cutting"

NIOSH 79-125, "Assessment of Selected Control Technology Techniques for Welding, Fumes"

OSHA Directive CSP 03-01-003, "Voluntary Protection Programs (VPP): Policies and Procedures Manual,"

TM5-1300, "Structures to Resist Accidental Explosions"

25 TAC 295, "Texas Asbestos Health Protection"

30 TAC 330, "Municipal Solid Waste"

30 TAC 335, "Industrial Solid Waste and Municipal Solid Waste"

Texas Food Establishment Rules

Texas Pesticide Laws; Texas Department of Agriculture, 1989

Texas Pesticide Regulations; Texas Department of Agriculture, March 1990

Texas Traffic Laws

New Mexico Pesticide Laws

### **Consensus Standards and Other Documents**

Accident Prevention Manual for Business and Industry, Administration and Programs, 13<sup>th</sup> Edition; National Safety Council, 2009

ACGIH "Industrial Ventilation Manual of Recommended Practices"

ACGIH publication, "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices"

AIAA Guide 095-2004, "Guide to Safety of Hydrogen and Hydrogen Systems"

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ANSI/ASSE A10.32-2012, "Fall Protection Systems for Construction and Demolition Operations  
ANSI D6.1, "Manual on Uniform Traffic Control Devices"  
ANSI/AIHA Z88.6-2006, "Respiratory Protection-Respirator Use-Physical Qualifications for Personnel," 2006  
ANSI/AIHA Z88.7-2010, "Color Coding of Air Purifying Respirator Canisters, Cartridges, and Filters," 2010  
ANSI/AIHA Z88.10-2010, "Respirator Fit Test Methods," 2010  
ANSI/AIHA Z9.5-2012, "American National Standard for Laboratory Ventilation," 2012  
ANSI/ASME A17.1, "American National Standard Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks"  
ANSI/Illuminating Engineering Society standard RP-1, "Standard Practice for Office Lighting"  
ANSI/Illuminating Engineering Society standard RP-7, "Standard Practice for Industrial Lighting"  
ANSI/ISEA 107-1999 Standard for High Visibility Apparel – Class II  
ANSI S1.4, "  
ANSI Z9.2, "Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems"

ANSI/ISEA Z87.1, "Occupational and Educational Eye and Face Protection"  
ANSI/ISEA Z89.1, "Industrial Head Protection"  
ANSI Z358.1, "Standard for Emergency Eyewashes and Shower Equipment"  
ANSI/ASSE Z359.1, "Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components"  
ANSI/ASSE Z359.4, "Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems, & Components"  
ANSI Z117.1-2009, "Standard on Confined Space Entry"

Applying Pesticides Correctly – A Guide for Private and Commercial Applicators, U.S. EPA, 1991

ASHRAE, 2012 HVAC Systems and Equipment Handbook, 2011 HVAC Applications Handbook; and 2009 Fundamentals Handbook  
ASHRAE STD 55-2010, "Thermal Environmental Conditions for Human Occupancy," 2010  
ASHRAE STD 62.1-2010, "ASHRAE Standard: Ventilation for Acceptable Indoor Air Quality," 2010

ASME Boiler and Pressure Vessel Safety Code  
ASME A13.1, "Scheme for the Identification of Piping Systems"  
ASME B30.5, "Mobile and Locomotive Cranes"  
ASME B56.1, "Safety Standard for High Lift and Low Lift Trucks"  
ASME Section IX, "Welding and Brazing Qualifications"

ASTM E-1368-05e1, "Standard Practice for Visual Inspection of Asbestos Abatement Projects"  
ASTM F2412, "Standard Test Methods for Foot Protection"  
ASTM F2413, "Standard Specification for Performance Requirements for Foot Protection"  
ASTM Committee G4.05, "Fire Hazards in Oxygen Systems: ASTM Standards Technology Training Coursebook"

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ASTM-G93-03, "Cleaning Methods and Cleanliness Levels for Material and Equipment Used in Oxygen Enriched Environments"

ASTM MNL36, "Manual for Safe Use of Oxygen Systems: Handbook for Design, Operations, and Maintenance"

*A Strategy for Occupational Exposure Assessment*, Editor Neil C. Hammond, American Industrial Hygiene Association, Akron, Ohio, 1991

"Bio Safety in Microbiological and Bio medical Laboratories," published by the Centers for Disease Control and Prevention and the National Institutes of Health

"Building Air Quality: A Guide for Building Owners and Facility Managers"; EPA/National Institute for Occupational Safety and Health, 1991

California Proposition 65 – Chemicals Known to the State To Cause Cancer or Reproductive Toxicity

Compressed Gas Association, "Accident Prevention in Oxygen-Rich and Oxygen-Deficient Atmospheres"

CGA-G4.4, "Oxygen Pipeline and Piping Systems"

CGA-G7.1, "Commodity Specification for Air"

CGA P-1-2008, "Safe Handling of Compressed Gases in Containers"

CGA P39-2008, "Oxygen-Rich Atmospheres"

*Chemical Protective Clothing*, J. S. Johnson, ed., American Industrial Hygiene Association, Akron, Ohio, 1990

Department of Transportation Emergency Response Guidebook, latest edition

EP-WI-004, "Energy Systems Test Branch's General Operating Procedure Manual (GOPM)"

ESTA-OP-0-49, "Lithium Battery Handler Certification"

FM Loss Prevention data sheets

FDA Managing Food Safety: A Manual for the Voluntary Use of HACCP [Hazard Analysis and Critical Control Point] Principles for Operators of Food Service and Retail Establishments

IEEE C95.1 Standard, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz"

IEST-STD-CC1246D, "Product Cleanliness Levels – Applications, Requirements and Determination"

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*Industrial Ventilation, a Manual of Recommended Practice, 27<sup>th</sup> Ed.*, The American Conference of Governmental Industrial Hygienists, Cincinnati, Ohio, 2010

International Council on Nanotechnology – Phase One Report: Current Knowledge and Practices Regarding Environmental Health and Safety in the Nanotechnology Workplace, October 18, 2006  
 International Council on Nanotechnology – Phase Two Report: Survey of Current Practices in the Nanotechnology Workplace, November 13, 2006

LIA/ANSI Z136.1, “Safe Use of Lasers”  
 LIA/ANSI Z136.6, “Safe Use of Lasers in Health Care”

“Managing Food Safety: A Manual for the Voluntary Use of HACCP [Hazard Analysis and Critical Control Point] Principles for Operators of Food Service and Retail Establishments”

*Manual of Regulations and Procedures for Federal Radio Frequency Management, U.S. Department of Commerce,* National Telecommunications and Information Administration, Washington, D. C., January 2008 Edition/September 2009 Revision

Manual on Uniform Traffic Control Devices, U.S. Department of Transportation

Manufacturing Chemists Association Inc., “Handling Glassware”

NASA Reference Publication 1099, “Lithium/Sulfur Cell and Battery Safety”

National Fire Protection Association Class IA Flammable Liquids  
 National Fire Protection Association, “Fire Protection Handbook”  
 National Fire Protection Association, “Industrial Fire Hazards Handbook”  
 NFPA 1, “National Fire Prevention Code”  
 NFPA 30, “Flammable and Combustible Liquids Code”  
 NFPA 33, “Standard for Spray Application Using Flammable or Combustible Materials”  
 NFPA 45, “Standard on Fire Protection for Laboratories Using Chemicals”  
 NFPA 55, “**Compressed Gases and Cryogenic Fluids Code**”  
 NFPA 51B, “Standard for Fire Prevention During Welding, Cutting and Other Hot Work”  
 NFPA 59A, “Liquefied Natural Gas”  
 NFPA 70, “National Electrical Code”  
 NFPA 70E, “Standard for Electrical Safety in The Workplace”  
 NFPA 77, “Static Electricity”  
 NFPA 91, “Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids”  
 NFPA 99B, “Standard for Hypobaric Facilities”  
 NFPA 101, “Life Safety Code”  
 NFPA 505, “Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations”  
 NFPA 704, “Standard System for the Identification of the Hazards of Materials for Emergency Response”



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NHS/IH 1845.2, Publication No. 80-106, "Entry Into and Work in Confined Spaces"

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NIOSH Criteria Document on Working in Confined Spaces

NIOSH Guide to Industrial Respiratory Protection, DHHS (NIOSH) Publication No. 87-116; 1987

NIOSH Method 7400

NIOSH Method 7402

NIOSH Pocket Guide to Chemical Hazards, DHHS (NIOSH) Publication No. 2005-149, 2005

NIOSH Publication IF 87-113, "A Guide to Safety in Confined Spaces"

NIOSH Publication Number 96-132 – "The Effects of Workplace Hazards on Male Reproductive Health"

NIOSH Publication Number 99-104 – "The Effects of Workplace Hazards on Female Reproductive Health"

NIOSH Publication Number 2009-125 – "Approaches to Safe Nanotechnology: Managing the Health and Safety Concerns Associated with Engineered Nanomaterials"

NIOSH Publication Number 2012-147 – "General Safe Practices for Working with Engineered Nanomaterials in Research Laboratories"

NIOSH Publication Number 2013-101 – Filling the Knowledge Gaps for Safe Nanotechnology in the Workplace

NIOSH Respirator Selection Logic 2004, Publication DHHS (NIOSH) Pub. No. 2005-100

The Occupational Environment: Its Evaluation, Control, and Management; 3<sup>rd</sup> Edition, American Industrial Hygiene Association, 2011

OSHA pamphlet 3071, "Job Hazard Analysis"

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*Patty's Industrial Hygiene, Volumes 1-4*, 5<sup>th</sup> Ed., John Wiley & Sons, Inc., New York, NY, 2000

Presidential Guidelines for Diagnostic X-Rays at Federal Installations, approved January 16, 1978

*Prudent Practices for Handling Hazardous Chemicals in Laboratories*, National Research Council, National Academy Press, Washington, DC, 1981

"Recommendations for the Management, Operation, Testing and Maintenance of HVAC Systems: Maintaining Acceptable Indoor Air Quality in Non-Industrial Employee Occupancies through Dilution Ventilation," American Industrial Hygiene Association, 2004

"Recommended Work Practices for Removal of Resilient Floor Coverings"

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Texas Voluntary Indoor Air Quality Guidelines for Government Buildings, Texas Department of State Health Services, 2002

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International Building Codes

Universal Precautions” guidelines from the Centers for Disease Control and Prevention  
 U.S. Nuclear Regulatory Guide 8.13 – Instructions Concerning Prenatal Radiation Exposure  
 Commission

*Working Safely with Pesticide*,; U.S. Department of Health, Education, and Welfare, Public Health Service, CDC, NIOSH, March 1976