

## NETL Focused Standards List

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The National Energy Technology Laboratory (NETL) Focused Standards List is primarily derived from standard references contained in the requirements section of NETL's environment, safety, security, and health (ESS&H) and cyber security directives. All standards shall reference the most current edition/version of that standard.

### 1. **DEPARTMENT OF ENERGY (DOE) AND OTHER GOVERNMENT STANDARDS AND REQUIREMENTS**

#### a. DOE Directives

The following DOE directives can be found at <http://www.directives.doe.gov>:

DOE Policy 141.1, DOE Management of Cultural Resources  
DOE Order 142.3, Unclassified Foreign Visits and Assignments Program  
DOE Order 150.1, Continuity Programs  
DOE Order 151.1, Comprehensive Emergency Management System  
DOE Order 200.1, Information Technology Management  
DOE Order 205.1, Department of Energy Cyber Security Program  
DOE Order 206.2, Identity, Credential, and Access Management (ICAM)  
DOE Order 210.2, DOE Corporate Operating Experience Program  
DOE Order 221.1, Reporting Fraud, Waste, and Abuse to the Office of Inspector General  
DOE Order 225.1, Accident Investigations  
DOE Policy 226.1, Department of Energy Oversight Policy  
DOE Order 226.1, Implementation of Department of Energy Oversight Policy  
DOE Order 231.1, Environment, Safety and Health Reporting  
DOE Order 232.2, Occurrence Reporting and Processing of Operations Information  
DOE Order 243.2, Vital Records  
DOE Order 251.1, Departmental Directives Program  
DOE Order 252.1, Technical Standards Program  
DOE Order 341.1, Federal Employee Health Services  
DOE Order 360.1, Federal Employee Training  
DOE Policy 411.1, Safety Management Functions, Responsibilities, and Authorities Policy  
DOE Order 414.1, Quality Assurance  
DOE Order 420.1, Facility Safety  
DOE Order 422.1, Conduct of Operations  
DOE Order 435.1, Radioactive Waste Management  
DOE Order 436.1, Departmental Sustainability  
DOE Order 440.1, Worker Protection Program for DOE (including the National Nuclear Security Administration) Federal Employees  
DOE Order 442.1, Department of Energy Employee Concerns Program  
DOE Order 450.2, Integrated Safety Management

The most recent and official controlled hard copy version of this directive resides with the directives manager. An electronic version of the controlled directive has been placed on the NETL intranet for employee use. Printed hard copies of this electronic version are considered noncontrolled documents.

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DOE Policy 450.4, Integrated Safety Management Policy  
DOE Policy 450.7, Environment, Safety and Health (ES&H) Goals  
DOE Order 451.1, National Environmental Policy Act Compliance Program  
DOE Policy 454.1, Use of Institutional Controls  
DOE Policy 456.1, Secretarial Policy Statement on Nanoscale Safety  
DOE Order 456.1, The Safe Handling of Unbound Engineered Nanoparticles  
DOE Order 460.1, Packaging and Transportation Safety  
DOE Policy 470.1, Safeguards and Security Program  
DOE Order 470.4, Safeguards and Security Program  
DOE Order 471.3, Identifying and Protecting Official Use Only Information  
DOE Order 471.6, Information Security  
DOE Order 472.2, Personnel Security  
DOE Order 473.3, Protection Program Operations  
DOE Order 475.1, Counterintelligence Program  
DOE Order 580.1, Department of Energy Personal Property Management Program  
DOE Order 3750.1, Workforce Discipline  
DOE Standard 1066, Fire Protection Design Criteria  
DOE Standard 1088, Fire Protection for Relocatable Structures  
DOE Standard 1090, Hoisting and Rigging  
DOE Standard 1092, Electrical Safety

b. Other DOE Requirements

DOE Acquisition Regulation

<http://energy.gov/management/office-management/operational-management/procurement-and-acquisition>

DOE Motor Vehicle Management Handbook

<http://www.gsa.gov/portal/content/104602>

DOE's Pollution Prevention Tracking and Reporting System (PPTRS)/  
Consolidated Energy Data Report (CEDR)

[http://www.hss.energy.gov/pp/report\\_dbs.html](http://www.hss.energy.gov/pp/report_dbs.html)

Office of Fossil Energy, Commitment to Environment, Security, Safety and  
Health, November 2006, [http://esh.fe.doe.gov/docs/Commitment\\_Final.doc](http://esh.fe.doe.gov/docs/Commitment_Final.doc)

Under Secretary of Energy Program Cyber Security Plan (PCSP), version 1.2  
(Official Use Only)

c. Executive Orders

The following Executive Orders can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>.

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Executive Order 11988, Floodplain Management  
Executive Order 11990, Protection of Wetlands  
Executive Order 12088, Federal Compliance with Pollution Control Standards  
Executive Order 12114, Environmental Effects Abroad of Major Federal Actions  
Executive Order 12196, Occupational Safety and Health Programs  
Executive Order 12898, Federal Actions to Address Environmental Justice in  
Minority Populations and Low-Income Populations  
Executive Order 12968, Access to Classified Information  
Executive Order 13043, Increasing Seat Belt Use in the United States  
Executive Order 13058, Protecting Federal Employees and the Public from  
Exposure to Tobacco Smoke in the Federal Workplace  
Executive Order 13423, Strengthening Federal Environmental, Energy, and  
Transportation Management  
Executive Order 13513, Federal Leadership on Reducing Text Messaging While  
Driving  
Executive Order 13514, Federal Leadership in Environmental, Energy, and  
Economic Performance  
Executive Order 13526, Classified National Security Information

d. Other Federal Government Requirements

Atomic Energy Act of 1954

<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr0980/v1/sr0980v1.pdf>

FAR 52.245-1, Government Property

[https://acquisition.gov/far/current/html/52\\_245.html](https://acquisition.gov/far/current/html/52_245.html)

FAR 52.245-2, Government Property Installation Operation Services

[https://acquisition.gov/far/current/html/52\\_245.html](https://acquisition.gov/far/current/html/52_245.html)

FMR Bulletin B-2, Wireless Phone Use in U.S. Government Vehicles

[FMR\\_Bulletin-B-2Wireless\\_Phone\\_R24T4U\\_0Z5RDZ-i34K-pR.pdf](FMR_Bulletin-B-2Wireless_Phone_R24T4U_0Z5RDZ-i34K-pR.pdf)

FMR Bulletin B-3, Use of Tobacco Products in U.S. Government Vehicles

[FMR\\_Bulletin-B-3UseTobaccoProducts\\_R24T4U\\_0Z5RDZ-i34K-pR.pdf](FMR_Bulletin-B-3UseTobaccoProducts_R24T4U_0Z5RDZ-i34K-pR.pdf)

FMR Part 102-74, Subpart C, Conduct on Federal Property

[www.gsa.gov/federalmanagementregulation](http://www.gsa.gov/federalmanagementregulation)

FMR Part 102-34, Motor Vehicle Management

[www.gsa.gov/federalmanagementregulation](http://www.gsa.gov/federalmanagementregulation)

GSA, Facilities Standards for the Public Buildings Service

<http://www.gsa.gov/portal/category/106319>

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National Industrial Security Program

<http://www.archives.gov/isoo/oversight-groups/nisp>

National Institute of Standards and Technology (NIST), Special Publication 800-53, Recommended Security Controls for Federal Information Systems

<http://csrc.nist.gov/publications/PubsSPs.html>

National Institute of Standards and Technology (NIST), Special Publication 800-70, Security Configuration Checklists Program for IT Products

<http://csrc.nist.gov/publications/PubsSPs.html>

Negotiated Agreements between NETL and American Federation of Government Employees (AFGE) Locals 1995, 1916, and 1104

<http://myportal/LMF/Pages/default.aspx>

Office of Management and Budget (OMB), Circular A-130, Management of Federal Information Resources

<http://www.whitehouse.gov/sites/default/files/omb/assets/omb/circulars/a130/a130trans4.pdf>

Office of Management and Budget (OMB), Circular A-130, Appendix III, Security of Federal Automated Information Resources

[http://www.whitehouse.gov/omb/circulars\\_a130\\_a130appendix\\_iii](http://www.whitehouse.gov/omb/circulars_a130_a130appendix_iii)

REAL ID Act, Title III, Improved Security for Drivers' Licenses and Personal Identification Cards

<https://www.dhs.gov/xlibrary/assets/real-id-act-text.pdf>

U.S. Postal Service Domestic and International Mail Manual

[http://pe.usps.com/text/dmm300\\_landing.htm](http://pe.usps.com/text/dmm300_landing.htm)

## 2. **STATUTORY ES&H STANDARDS**

### a. Federal

- (1) Code of Federal Regulations (CFRs): The following CFRs can be found at <http://www.gpoaccess.gov/cfr/index.html>.

10 CFR Chapter I, Nuclear Regulatory Commission

10 CFR 20, Standards for Protection Against Radiation

10 CFR 725, Permits for Access to Restricted Data

10 CFR 835, Occupational Radiation Protection

10 CFR 851, Worker Safety and Health Program

10 CFR 860.4, Unauthorized Introduction of Weapons or Dangerous Materials

10 CFR 860.6, Posting

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- 10 CFR 1021, National Environmental Policy Act Implementing Procedures
- 10 CFR 1022, Compliance with Floodplain and Wetland Environmental Review Requirements
- 15 CFR 730-774, Export Administration Regulations (EAR)
- 21 CFR 1040, Performance Standards for Light-Emitting Products
- 22 CFR 120-130, International Traffic in Arms Regulations (ITAR)
- 29 CFR 1904, Recording and Reporting Occupational Injuries and Illnesses
- 29 CFR 1905, Rules of Practice for Variances, Limitations Variations, Tolerances, and Exemptions Under the Williams-Steiger Occupational Safety and Health Act of 1970
- 29 CFR 1910, Occupational Safety and Health Standards
- 29 CFR 1910, Occupational Safety and Health Standards, Subparts D, F, H, I, J, L, O, P, Q, S, and Z
- 29 CFR 1910.22, General Requirements (walking and working surfaces)
- 29 CFR 1910.23, Guarding Floor and Wall Openings and Holes
- 29 CFR 1910.24, Fixed Industrial Stairs
- 29 CFR 1910.27, Fixed Ladders
- 29 CFR 1910.28, Safety Requirements for Scaffolding
- 29 CFR 1910.33-39, Means of Egress
- 29 CFR 1910.37, Maintenance, Safeguards, and Operational Features for Exit Routes
- 29 CFR 1910.38, Emergency Action Plans
- 29 CFR 1910.39, Fire Prevention Plans
- 29 CFR 1910.66, Powered Platforms for Building Maintenance
- 29 CFR 1910.94, Ventilation
- 29 CFR 1910.95, Occupational Noise Exposure
- 29 CFR 1910.97 Nonionizing Radiation
- 29 CFR 1910.101, Compressed Gases
- 29 CFR 1910.102, Acetylene
- 29 CFR 1910.103, Hydrogen
- 29 CFR 1910.104, Oxygen
- 29 CFR 1910.105, Nitrous Oxide
- 29 CFR 1910.106, Flammable and Combustible Liquids
- 29 CFR 1910.109(a), Explosives and Blasting Agents
- 29 CFR 1910.110, Storage and Handling of Liquefied Petroleum Gases
- 29 CFR 1910.119, Process Safety Management of Highly Hazardous Chemicals
- 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response
- 29 CFR 1910.132, General Requirements for PPE
- 29 CFR 1910.133, Eye and Face Protection
- 29 CFR 1910.134, Respiratory Protection
- 29 CFR 1910.135, Head Protection
- 29 CFR 1910.136, Foot Protection
- 29 CFR 1910.137, Electrical Protective Equipment

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29 CFR 1910.138, Hand Protection  
29 CFR 1910.141, Sanitation  
29 CFR 1910.144, Safety Color Code for Marking Physical Hazards  
29 CFR 1910.145, Specifications for Accident Prevention Signs and Tags  
29 CFR 1910.146, Permit-Required Confined Spaces  
29 CFR 1910.147, Control of Hazardous Energy (Lockout/Tagout)  
29 CFR 1910.151, Medical Services and First Aid  
29 CFR 1910.155, Fire Protection  
29 CFR 1910.157, Portable Fire Extinguishers  
29 CFR 1910.158, Standpipe and Hose Systems  
29 CFR 1910.159, Automatic Sprinkler Systems  
29 CFR 1910.160, Fixed Extinguishing Systems, General  
29 CFR 1910.161, Fixed Extinguishing Systems, Dry Chemical  
29 CFR 1910.162, Fixed Extinguishing Systems, Gaseous Agent  
29 CFR 1910.163, Fixed Extinguishing Systems, Water Spray and Foam  
29 CFR 1910.164, Fire Detection Systems  
29 CFR 1910.165, Employee Alarm Systems  
29 CFR 1910.176, Handling Materials – General  
29 CFR 1910.178, Powered Industrial Trucks  
29 CFR 1910.251-255, Welding, Cutting, and Brazing  
29 CFR 1910.252, General Requirements  
29 CFR 1910.253, Oxygen-Fuel Gas Welding and Cutting  
29 CFR 1910.268, Telecommunications  
29 CFR 1910.269, Electric Power Generation, Transmission, and  
Distribution  
29 CFR 1910.303, General Requirements Electrical  
29 CFR 1910.307, Hazardous (Classified) Locations  
29 CFR 1910.331-335, Electrical Safety-Related Work Practice Standards  
29 CFR 1910.334, Use of Equipment  
29 CFR 1910.335, Safeguards for Personnel Protection  
29 CFR 1910.441(a)(6), Batteries and Battery Charging  
29 CFR 1910.1000, Air Contaminants  
29 CFR 1910.1001, Asbestos  
29 CFR 1910.1001-1052, Asbestos to Methylene Chloride  
29 CFR 1910.1001-1096, Asbestos to Ionizing Radiation  
29 CFR 1910.1003, 13 Carcinogens  
29 CFR 1910.1004, Alpha-Naphthylamine  
29 CFR 1910.1020, Access to Employee Exposure and Medical Records  
29 CFR 1910.1025, Lead  
29 CFR 1910.1030, Bloodborne Pathogens  
29 CFR 1910.1200, Hazard Communication  
29 CFR 1910.1450, Occupational Exposure to Hazardous Chemicals in  
Laboratories  
29 CFR 1926, Safety and Health Regulations for Construction  
29 CFR 1926, Subparts C, D, F, I, J, K, L, M, N, P, V, X, and CC  
29 CFR 1926.21, Safety Training and Education

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29 CFR 1926.25, Housekeeping  
29 CFR 1926.26, Illumination  
29 CFR 1926.50, Medical Services and First Aid  
29 CFR 1926.51, Sanitation  
29 CFR 1926.52, Occupational Noise Exposure  
29 CFR 1926.54, Nonionizing Radiation  
29 CFR 1926.55, Gases, Vapors, Fumes, Dusts, and Mists  
29 CFR 1926.59, Hazard Communication  
29 CFR 1926.62, Lead  
29 CFR 1926.65, Hazardous Waste Operations and Emergency Response  
29 CFR 1926.95, Criteria for Personal Protective Equipment  
29 CFR 1926.96, Occupational Foot Protection  
29 CFR 1926.100, Head Protection  
29 CFR 1926.104, Safety Belts, Lifelines, and Lanyards  
29 CFR 1926.105, Safety Nets  
29 CFR 1926.200, Accident Prevention Signs and Tags  
29 CFR 1926.252, Disposal of Waste Materials  
29 CFR 1926.403, General Requirements  
29 CFR 1926.417, Lockout and Tagging of Circuits  
29 CFR 1926.552, Material Hoists, Personnel Hoists, and Elevators  
29 CFR 1926.601, Motor Vehicles  
29 CFR 1926.652, Requirements for Protective Systems  
29 CFR 1926.1060, Training Requirements  
29 CFR 1926.1101, Asbestos  
29 CFR 1960, Basic Program Elements for Federal Employee  
Occupational Safety and Health Programs and Related Matters  
29 CFR 1960, Subpart I, Recordkeeping and Reporting Requirements  
29 CFR 1960.17, Alternate Standards  
29 CFR 1960.28, Employee Reports of Unsafe or Unhealthful Working  
Conditions  
29 CFR 1990, Identification, Classification, and Regulation of Potential  
Occupational Carcinogens  
36 CFR 800, Protection of Historic Properties  
40 CFR, Protection of Environment  
40 CFR Chapter I, Subchapters C, I, J, and N  
40 CFR 61, National Emission Standard for Hazardous Air Pollutants  
40 CFR 80.29, Controls and Prohibitions on Diesel Fuel Quality  
40 CFR 82, Protection of Stratospheric Ozone  
40 CFR 110, Discharge of Oil  
40 CFR 112, Oil Pollution Prevention  
40 CFR 116, Designation of Hazardous Substances  
40 CFR 117, Determination of Reportable Quantities for Hazardous  
Substances  
40 CFR 122, National Pollutant Discharge Elimination System  
40 CFR 129, Toxic Pollutant Effluent Standards  
40 CFR 131, Water Quality Standards

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- 40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants
- 40 CFR 141, National Primary Drinking Water Regulations
- 40 CFR 142, National Primary Drinking Water Regulation Implementation
- 40 CFR 143, National Secondary Drinking Water Regulations
- 40 CFR 258, Criteria for Municipal Solid Waste Landfills
- 40 CFR 260-265, Hazardous Waste Management System
- 40 CFR 261, Identification and Listing of Hazardous Waste
- 40 CFR 262, Standards Applicable to Generators of Hazardous Waste
- 40 CFR 265, Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
- 40 CFR 270, Hazardous Waste Permit Program
- 40 CFR 279, Standards for the Management of Used Oil
- 40 CFR 302, Designation, Reportable Quantities, and Notification
- 40 CFR 302.4, Designation of Hazardous Substances
- 40 CFR 355, Emergency Planning and Notification
- 40 CFR 355, Appendix A, The list of Extremely Hazardous Substances and their Threshold Planning Quantities
- 40 CFR 370, Hazardous Chemical Reporting: Community Right-to-Know
- 40 CFR 372.65, Toxic Chemical Release Reporting; Community Right-to-Know, Chemicals and Chemical Categories
- 40 CFR 373, Standards for Universal Waste Management
- 40 CFR 401, General Provisions for Effluent Guidelines and Standards
- 40 CFR 403, General Pretreatment Regulations for Existing and New Sources of Pollution
- 40 CFR 745, Lead-Based Paint Poisoning Prevention in Certain Residential Structures
- 40 CFR 763, Asbestos
- 40 CFR 1500-1508, Regulations for Implementing the Procedural Provisions of the National Environmental Policy Act
- 41 CFR 101, Federal Property Management Regulations
- 41 CFR 101-20.3, Conduct on Federal Property
- 41 CFR 101-20.301, Inspection
- 41 CFR 102-34, Motor Vehicle Management
- 41 CFR 102-192, Mail Management
- 41 CFR 102.1-220, Federal Management Regulation
- 41 CFR 109-1.5107, Physical Protection of Personal Property
- 41 CFR 109-38, Motor Equipment Management
- 42 CFR 84, Approval of Respiratory Protective Devices
- 45 CFR 160 and 164, Standards for Privacy of Individually identifiable Health Information
- 48 CFR 952, Solicitation Provisions and Contract Clauses
- 49 CFR 105-177, Pipeline and Hazardous Materials Safety Administration, Department of Transportation
- 49 CFR 171-177, Hazardous Materials Regulations



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- 49 CFR 172, Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
- 49 CFR 173, Shippers - General Requirements for Shipments and Packaging
- 49 CFR 178, Specifications for Packagings
- 49 CFR 350-399, Federal Motor Carrier Safety Regulations

- (2) United States Codes (USCs): The following USCs can be found at <http://www.gpoaccess.gov/uscode/index.html>.

- 5 USC 552, The Freedom of Information Act
- 5 USC 552a, The Privacy Act of 1974
- 10 USC 2536, Award of Certain Contracts to Entities Controlled by a Foreign Government: Prohibition
- 16 USC Chapter 35, Endangered Species
- 16 USC 470, National Historic Preservation
- 33 USC 1251 et seq., Water Pollution Prevention and Control
- 40 USC 121(d), Delegation of Authority by Administrator
- 42 USC Chapter 6A, Subchapter XII, Safety of Public Water Systems
- 42 USC § 300(f), Safe Drinking Water Act (SDWA), Section 1417
- 42 USC 4321 et seq., National Environmental Policy
- 42 USC § 6901 et seq., Solid Waste Disposal Act
- 42 USC 7401 et seq., Air Pollution Prevention and Control

b. State

State Cell Phone Use and Texting While Driving Laws can be found at <http://www.ghsa.org/html/stateinfo/laws/cellphone-laws.html>.

- (1) Oregon

The following Oregon Administrative Rules (OAR) can be found at <http://www.deq.state.or.us/regulations/rules.htm>.

- Chapter 333, Division 56, Infectious Waste Management
- Chapter 333, Division 69, Certification of Individuals and Firms Engaged in Lead-Based Paint Activities
- Chapter 340, Division 35, Noise Control Regulations
- Chapter 340, Division 40, Groundwater Quality Protection
- Chapter 340, Division 41, Water Quality Standards: Beneficial Uses, Policies, and Criteria for Oregon
- Chapter 340, Division 42, Total Maximum Daily Load
- Chapter 340, Division 45, Regulations Pertaining to NPDES and WPCF Permits

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Chapter 340, Division 48, Certification of Compliance with Water Quality Requirements and Standards  
Chapter 340, Division 90-97, Recycling, Waste Reduction, and Solid Waste Rules  
Chapter 340, Division 100-135, Hazardous Waste Management System  
Chapter 340, Division 100-180, Management of Hazardous Wastes and Other Special Wastes  
Chapter 340, Division 111, Used Oil Management  
Chapter 340, Division 113, Universal Waste Management  
Chapter 340, Division 141, Oil Spill Contingency Planning and Fees  
Chapter 340, Division 142, Oil and Hazardous Materials Emergency Response Requirements  
Chapter 340, Division 150, Underground Storage Tank Rules  
Chapter 340, Division 151, Financial Responsibility for USTs  
Chapter 340, Division 248, 0010-0290, Asbestos Requirements  
Chapter 437, Division 2, Asbestos General Occupational Safety and Health Rules – General Industry  
Chapter 437, Division 3, Asbestos General Occupational Safety and Health Rules – Construction

The following Oregon statutes (ORS) can be found at <http://landru.leg.state.or.us/ors>.

ORS 453.307 to 453.414, Community Information on Hazardous Substances  
ORS 454, Sewage Treatment and Disposal Systems  
ORS 459, Solid Waste Management  
ORS Chapter 459.386-459-405, Infectious Waste Disposal  
ORS 459A, Reuse and Recycling  
ORS 465.003 to 465.037, Toxics Use Reduction and Hazardous Waste Reduction Act  
ORS 465, Hazardous Waste and Hazardous Materials I  
ORS 466, Hazardous Waste and Hazardous Materials II  
ORS 468, Environmental Quality Generally  
ORS 468B, Water Quality

Oregon Department of Environmental Air Quality Program  
<http://www.oregon.gov/DEQ/AQ>

Oregon Department of Environmental Quality (DEQ), Hazardous Waste/Toxics Reduction Policy Clarification, Guidance Number: 1997-PO-002A, Management of Building Demolition Waste  
<http://www.deq.state.or.us/lq/pubs/docs/hw/Policy/HWPolicy1997PO002A.pdf>

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### (2) Pennsylvania

The following Pennsylvania codes can be found at

<http://www.pacode.com/index.html>.

- 17 PA Code 47.1-47.8, Drilling Water Wells
- 25 PA Code, Part I, Subpart C, Article III, Air Resources
- 25 PA Code 16, Water Quality Toxics Management Strategy -- Statement of Policy
- 25 PA Code 91, General Provisions
- 25 PA Code 91.33, Incidents Causing or Threatening Pollution
- 25 PA Code 92a, National Pollutant Discharge Elimination System Permitting, Monitoring, and Compliance
- 25 PA Code 93, Water Quality Standards
- 25 PA Code 94, Municipal Wasteload Management
- 25 PA Code 102, Erosion and Sediment Control
- 25 PA Code 216, Registration of Radiation-Producing Machines and Radiation-Producing Machine Providers
- 25 PA Code 225, Radiation Safety Requirements for Industrial Radiographic Operations
- 25 PA Code 230, Packaging and Transportation of Radioactive Materials
- 25 PA Code 236.1 et seq., Low-Level Radioactive Waste Management and Disposal
- 25 PA Code 245, Administration of the Storage Tank and Spill Prevention Program
- 25 PA Code 252, Environmental Laboratory Accreditation
- 25 PA Code 262a, Standards Applicable to Generators of Hazardous Waste
- 25 PA Code 264a.97, General Groundwater Monitoring Requirements
- 25 PA Code 271-285, Municipal Waste Management
- 25 PA Code 287-299, Residual Waste Management
- 25 PA Code 288.192, Plan for the Disposal of Friable Asbestos Containing Waste
- 34 PA Code, Part XIII, Worker and Community Right-to-Know Act
- 34 PA Code 203, Lead-Based Paint Occupation Accreditation and Certification
  
- 35 PA CS §§ 691.1 - 691.801, The Clean Streams Law  
<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-52060/Act%20394%20of%201937.pdf>
  
- 35 PA CS § 4001-4015, Air Pollution Control Act  
<http://www.dep.state.pa.us/dep/deputate/airwaste/aq/regs/apca.pdf>

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35 PA CS § 6018.101-6018.1003, Solid Waste Management Act [Solid Waste Management Act complete.pdf](#)

35 PA CS § 6021.101, et seq., Storage Tank and Spill Prevention Act [Storage Tank and Spill Prevention Act complete.pdf](#)

35 PA CS § 7130.101 et seq., Pennsylvania Low Level Radioactive Waste Disposal Act <http://www.palrb.us/pamphletlaws/19001999/1998/0/act/0012.pdf>

Asbestos Occupations Accreditation and Certification Act of 1990, P.L. 805, No. 194 <http://www.portal.state.pa.us/portal/server.pt/community/laws/11474>

Lead Certification Act of 1995, P.L. 291, No. 44 <http://www.portal.state.pa.us/portal/server.pt/community/laws/11474>

PA Act 101, Municipal Waste Planning, Recycling, and Waste Act of 1988 [Municipal Waste Planning Recycling and Waste Act complete.pdf](#)

### (3) West Virginia

The following West Virginia codes (WVC) can be found at <http://www.legis.state.wv.us/wvcode/code.cfm>.

WVC 16-32, Licensure of Asbestos Abatement Project Designer, Inspectors, Contractors, Management Planners, Workers, and Supervisors

WVC 16-35-1, Lead Abatement Law

WVC 20-5J-1, West Virginia Medical Waste Act

WVC 22-5, Air Pollution Control

WVC 22-11-1, Water Pollution Control Act

WVC 22-18, Hazardous Waste Management Act

The following WV codes of state rules (CSR) can be found at <http://apps.sos.wv.gov/adlaw/csr/index.aspx>.

WV 33 CSR 01, Solid Waste Management Rule

WV 33 CSR 04, Lead Acid Battery Rule

WV 33 CSR 07, Proof of Proper Solid Waste Disposal

WV 33 CSR 20, Hazardous Waste Management System

WV 33 CSR 20-5, Standards Applicable to Generators of Hazardous Waste

WV 33 CSR 23, Groundwater Protection Standard

WV 33 CSR 30, Underground Storage Tanks

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WV 45 CSR 01, Repeal – Control and Reduction of Nitrogen Oxides from Non-Electric Generating Units as a Means to Mitigate Transport of Ozone Precursors  
WV 46 CSR 12, Requirements Governing Groundwater Standards  
WV 47 CSR 02, Requirements Governing Water Quality Standards  
WV 47 CSR 10, National Pollutant Discharge Elimination System (NPDES) Program  
WV 47 CSR 11, Special Rules  
WV 47 CSR 26, Water Pollution Control Permit Fee Schedule  
WV 47 CSR 32, Regulations Governing Environmental Laboratories, Certification, and Standards of Performance  
WV 47 CSR 55, Groundwater Protection Act Fee Schedule  
WV 47 CSR 58, Groundwater Protection Regulations  
WV 47 CSR 59, Monitoring Well Rule  
WV 47 CSR 60, Monitoring Well Design Standards  
WV 64 CSR 45, Lead Abatement Licensing  
WV 64 CSR 51, Fees for Services  
WV 64 CSR 56, Infectious Medical Waste  
WV 64 CSR 63, Asbestos Abatement Licensing  
WV 157 CSR 07, Transportation of Hazardous Waste

c. Local

(1) Albany, Oregon

City of Albany, OR, Comprehensive Plan, Goal 6, Sound Quality,  
<http://www.cityofalbany.net/comdev/compplan/>.

Title 10, Sewers, City of Albany, Municipal Code,  
[http://www.cityofAlbany.net/services/municipal\\_code](http://www.cityofAlbany.net/services/municipal_code).

Permit Number 8731-02, Industrial Wastewater Discharge, Albany, OR,  
[http://intranet/ESH\\_ISO/report/Industrial%20Wastewater%20Discharge%20permit%20Albany%208731-02.pdf](http://intranet/ESH_ISO/report/Industrial%20Wastewater%20Discharge%20permit%20Albany%208731-02.pdf).

(2) Allegheny County, Pennsylvania

The following Allegheny County Health Department (ACHD) regulations can be found at <http://www.achd.net/newweb/regs.html>.

ACHD, Article III, Food Protection, Section 323, Ventilation  
ACHD, Article VIII, Solid Waste Disposal and Recycling Management  
ACHD, Article XV, Plumbing and Building Drainage  
ACHD, Article XXI, Air Pollution Control

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(3) Morgantown, West Virginia

City of Morgantown, WV Article 527, “Noise Ordinance,”

<http://www.morgantown.com/noiseord.htm>

Ordinance 923, Industrial Waste, City of Morgantown, WV,

[http://intranet/ESH\\_ISO/standard/MGN-IWO-923.pdf](http://intranet/ESH_ISO/standard/MGN-IWO-923.pdf)

Permit Number MUB 012, Industrial Waste Discharge, Morgantown, WV,

[http://intranet/ESH\\_ISO/report/permits.htm](http://intranet/ESH_ISO/report/permits.htm)

Morgantown City Code, Article 929.20, Storm Water Management and Comprehensive Drainage Plans, [http://intranet/ESH\\_ISO/iso/EMS/ems\\_road\\_map/Article929-20.pdf](http://intranet/ESH_ISO/iso/EMS/ems_road_map/Article929-20.pdf)

(4) Pleasant Hills, Pennsylvania

Resolution 225, Pleasant Hills Authority

[Pleasant Hills Resolution 225.pdf](#)

(5) South Park, Pennsylvania

South Park Township, Article 20, Supplementary Regulations, Section 2001.3, “Noise” – [South Park Township.pdf](#)

South Park Township Plumbing Regulations

See Allegheny County Plumbing Regulations

<http://www.achd.net/newweb/regs.html>

### 3. **CONSENSUS STANDARDS**

The following consensus standards are located (or linked) electronically on the ES&HMS Roadmap in section 4.3.2 unless otherwise noted (<http://myportal/ORG/OIO/ESSH/Pages/ISO432-consensus.aspx>).

References apply to latest edition/most current version.

a. ACGIH – American Conference of Governmental Industrial Hygienists

Note: These are books located in all 3 libraries.

ACGIH, Industrial Ventilation: A Manual of Recommended Practice for Operation and Maintenance

ACGIH, Industrial Ventilation: A Manual of Recommended Practice for Design

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

b. ANSI – American National Standards Institute

ANSI O1.1, Woodworking Machinery – Safety Requirements  
ANSI/ASA S1.4 2014 Part 1, American National Standard Electroacoustics – Sound Level Meters – Part 1: Specifications  
ANSI/ASA S1.4-2014 Part 2, American National Standard Electroacoustics – Sound Level Meters – Part 2: Pattern Evaluation Tests  
ANSI/ASA S1.4-2014 Part 3, American National Standard Electroacoustics – Sound Level Meters – Part 3: Periodic Tests  
ANSI Z49.1, Safety in Welding, Cutting, and Allied Processes  
ANSI Z88.2, Practices for Respiratory Protection  
ANSI Z136.1, American National Standard for Safe Use of Lasers  
ANSI Z136.2, American National Standard for Safe Use of Optical Fiber Communications Systems Utilizing Laser Diode and LED Sources  
ANSI Z136.6, Safe Use of Lasers Outdoors  
ANSI/AIHA/ASSE Z9.5, Laboratory Ventilation  
ANSI/AIHA/ASSE Z88.6, Respiratory Protection – Respirator Use – Physical Qualifications for Personnel  
ANSI/AIHA/ASSE Z88.7, Color Coding of Air-Purifying Respirator Canisters, Cartridges, and Filters  
ANSI/AIHA/ASSE Z88.10, Respirator Fit Testing Methods  
ANSI/AIHA/ASSE Z9.2, Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems  
ANSI/ASA S3.1-1999 (R 2013), Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms  
ANSI/ASA S3.6, Specification for Audiometers  
ANSI/ASSE A10.3-2013, Safety Requirements for Powder Actuated Fastening Systems  
ANSI/ASSE A10.32, Personal Fall Protection Used in Construction and Demolition Operations  
ANSI/ASSE Z244.1-2003 (R 2014), Control of Hazardous Energy – Lockout/Tagout and Alternative Methods  
ANSI/ASSE Z117.1-2009, Safety Requirements for Confined Spaces  
ANSI/HPS N43.3, General Radiation Safety Standard for Installations Using Non-Medical X-Ray and Sealed Gamma Ray Sources, Energies up to 10 MeV  
ANSI/IEC 60974-1, Arc Welding Equipment – Part 1: Welding Power Sources  
ANSI/IESNA RP-1, Office Lighting  
ANSI/ISEA Z87.1, American National Standard for Occupational and Educational Personal Eye and Face Protection Devices  
ANSI/ISEA Z89.1, American National Standard for Industrial Head Protection  
ANSI/ISEA Z358.1, American National Standard for Emergency Eyewash and Shower Equipment  
ANSI/ITSDF B56.1, Safety Standard for Low Lift and High Lift Trucks

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ANSI/NEMA Z535.1, Safety Colors  
ANSI/NEMA Z535.2, Environmental and Facility Safety Signs  
ANSI/NEMA Z535.3, Criteria for Safety Symbols  
ANSI/NEMA Z535.5, Safety Tags and Barricade Tapes (for Temporary Hazards)  
ANSI/SIA A92.2, Vehicle-Mounted Elevating and Rotating Aerial Devices  
ANSI/UL 551, Transformer Type Arc-Welding Machines

c. ASHRAE – American Society of Heating, Refrigerating, and Air-Conditioning Engineers

ASHRAE Standard 52.2, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size  
ASHRAE Standard 55, Thermal Environmental Conditions for Human Occupancy  
ASHRAE Standard 62.1, Ventilation for Acceptable Indoor Air Quality  
ASHRAE Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings  
ASHRAE Standard 110, Method of Testing Performance of Laboratory Fume Hoods

d. ASME – American Society of Mechanical Engineers

ASME A13.1, Scheme for Identification of Piping Systems  
ASME B31.1, Power Piping  
ASME Boiler and Pressure Vessel Code, Section VIII, Division I – Rules for Construction of Pressure Vessels Division I  
ASME Boiler and Pressure Vessel Code, Section VIII, Division II – Rules for Construction of Pressure Vessels Division II – Alternative Rules  
ASME Boiler and Pressure Vessel Code, Section VIII, Division III – Rules for Construction of Pressure Vessels Division III – Alternative Rules for Construction of High Pressure Vessels

e. ASTM – American Society for Testing and Materials

ASTM F2413-11, Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear

f. CGA – Compressed Gas Association

CGA C-6, Standards for Visual Inspection of Steel Compressed Gas Cylinders  
CGA C-7, Guide to the Classification and Labeling of Compressed Gases  
CGA C-8, Standard for Requalification of DOT-3HT, CTC-3HT, and TC-3HTM Seamless Steel Cylinders  
CGA G-1, Acetylene  
CGA G-8.1, Standard for Nitrous Oxide Systems at Customer Sites  
CGA P-1, Standard for Safe Handling of Compressed Gases in Containers



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CGA P-12, Safe Handling of Cryogenic Liquids  
CGA P-20, Standard for Classification of Toxic Gas Mixtures  
CGA S-1.1, Pressure Relief Device Standards - Part 1- Cylinders for Compressed Gases  
CGA S-1.2, Pressure Relief Device Standards – Part 2 - Portable Containers for Compressed Gases  
CGA S-1.3, Pressure Relief Device Standards – Part 3 – Stationary Storage Containers for Compressed Gases  
CGA V-1, Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections  
CGA V-6, Standard Bulk Refrigerated Liquid Transfer Connections

g. FDA – Food and Drug Administration

FDA, Plumbing, and Cross-Connection Control

h. GHS – Globally Harmonized System. NOTE: The book is available in all 3 libraries.

ST/SG/AC.10/30, United Nations Globally Harmonized System of Classification and Labelling of Chemicals

i. IAPMO – International Association of Plumbing and Mechanical Officials

IAPMO, Uniform Plumbing Code

j. ICC – International Code Council

ICC, International Building Code

k. ISO – International Standards Organization

ISO 14001, Environmental Management Systems - Requirements With Guidance for Use

ISO 14001, Technical Corrigendum 1, Environmental Management Systems – Requirements With Guidance for Use

ISO 14119, Safety of Machinery – Interlocking Devices Associated With Guards – Principles for Design and Selection

ISO/TR 18569, Safety of Machinery – Guidelines for the Understanding and Use of Safety of Machinery Standards

ISO 19011, Guidelines for Auditing Management Systems

ISO 17025, General Requirements for the Competence of Testing and Calibration Laboratories

ISO 17025 Technical Corrigendum 1, General Requirements for the Competence of Testing and Calibration Laboratories

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- l. NFPA – National Fire Protection Association
  - NFPA 1, Fire Code
  - NFPA 10, Standard for Portable Fire Extinguishers
  - NFPA 11, Standard for Low, Medium, and High-Expansion Foam
  - NFPA 12, Standard on Carbon Dioxide Extinguishing Systems
  - NFPA 13, Standard for the Installation of Sprinkler Systems
  - NFPA 14, Standard for the Installation of Standpipe and Hose Systems
  - NFPA 15, Standard for Water Spray Fixed Systems for Fire Protection
  - NFPA 16, Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems
  - NFPA 17, Standard for Dry Chemical Extinguishing Systems
  - NFPA 18, Standard on Wetting Agents
  - NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems
  - NFPA 30, Flammable and Combustible Liquids Code
  - NFPA 45, Standard on Fire Protection for Laboratories using Chemicals
  - NFPA 51B, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work
  - NFPA 55, Compressed Gases and Cryogenic Fluids Code
  - NFPA 58, Liquefied Petroleum Gas Code
  - NFPA 68, Standard on Explosion Protection by Deflagration Venting
  - NFPA 70, National Electrical Code (NEC)
  - NFPA 70E, Standards for Electrical Safety in the Workplace
  - NFPA 72, National Fire Alarm and Signaling Code
  - NFPA 90A, Standard for the Installation of Air Conditioning and Ventilating Systems
  - NFPA 91, Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Noncombustible Particulate Solids
  - NFPA 99, Health Care Facilities Code
  - NFPA 101, Life Safety Code
  - NFPA 241, Standard for Safeguarding Construction, Alteration, and Demolition Operations
  - NFPA 484, Standard for Combustible Metals
  - NFPA 704, Standard System for the Identification of the Hazards of Materials for Emergency Response
- m. OHSAS – Occupational Health and Safety Assessment Series
  - OHSAS 18001, Occupational Health and Safety Management Systems - Requirements
- n. OSHA – Occupational Safety and Health Administration
  - TED 01-00-015, OSHA Technical Manual (OTM)