

DOE Standards¹ of Interest to the DNFSB

Updated: February 2026

Codes of Federal Regulations

ID	Document Title	Last Issued
10 CFR Part 708	DOE Contractor Employee Protection Program	8/13/2025
10 CFR Part 770	Transfer of Real Property at Defense Nuclear Facilities for Economic Development	11/13/2013
10 CFR Part 820	Procedural Rules for DOE Nuclear Activities	12/27/2024
10 CFR Part 830	Nuclear Safety Management	10/19/2020
10 CFR Part 835	Occupational Radiation Protection	6/26/2023
10 CFR Part 840	Extraordinary Nuclear Occurrences	5/21/1984
10 CFR Part 851	Worker Safety and Health Program	12/27/2024
10 CFR Part 1005	Intergovernmental Review of Department of Energy Programs and Activities	6/24/1983

DOE Directives (Policies, Orders, Guides, Manuals)

ID	Document Title	Last Issued
DOE P 112.1	DOE Roles and Responsibilities - National Laboratories	11/23/2016
DOE O 140.1A	Interface with the Defense Nuclear Facilities Safety Board	6/15/2020
DOE O 151.1E	Comprehensive Emergency Management System	10/28/2024
DOE G 151.1-1B	Comprehensive Emergency Management System Guide	7/26/2022
DOE O 153.1A	Departmental Nuclear Emergency Support Team Capabilities	11/17/2022
DOE P 203.1 Chg 1 (AdminChg)	Use of Generative Artificial Intelligence	1/28/2026
DOE O 210.2A	DOE Corporate Operating Experience Program	4/8/2011
DOE O 225.1B	Accident Investigations	3/4/2011
DOE O 226.1B Chg 1 (Admin Chg)	Implementation of Department of Energy Oversight Policy	5/3/2022
DOE G 226.1-2A	Federal Line Management Oversight of Department of Energy Nuclear Facilities	4/14/2014
DOE P 226.2	Policy for Federal Oversight and Contractor Assurance Systems	8/9/2016
DOE O 227.1A Chg 2 (AdminChg)	Independent Oversight Program	1/15/2026

¹ 42 U.S.C. § 2286a(b)(1) defines standards as including all applicable DOE orders, regulations, and requirements. This includes, but is not necessarily limited to, DOE regulations under Title 10 of the Code of Federal Regulations; DOE Directives (Policies, Orders, Notices, Manuals, and Guides), managed under the DOE Directives Program; Technical Standards and Handbooks, managed under the Technical Standards Program; and program element specific policies and supplemental directives and technical standards.

ID	Document Title	Last Issued
DOE O 231.1B Admin Chg 1	Environment, Safety and Health Reporting	11/28/2012
DOE O 232.2A Chg 1 (MinChg)	Occurrence Reporting and Processing of Operations Information	10/4/2019
DOE O 251.1E Chg 1 (LtdChg)	Departmental Directives Program	12/18/2024
DOE O 252.1A Chg 2 (AdminChg)	Technical Standards Program	9/30/2024
DOE O 360.1D	Federal Employee Training	12/9/2022
DOE O 410.1	Central Technical Authority Responsibilities Regarding Nuclear Safety Requirements	8/28/2007
DOE O 410.2 Admin Chg 1	Management of Nuclear Materials	4/10/2014
DOE O 413.3B Chg 7 (LtdChg)	Program and Project Management for the Acquisition of Capital Assets	6/21/2023
DOE G 413.3-1 Chg 1 (Admin Chg)	Managing Design and Construction Using Systems Engineering for Use with DOE O 413.3A	10/22/2015
DOE G 413.3-2 Chg 1 (Admin Chg)	Quality Assurance Guide for Project Management	10/22/2015
DOE G 413.3-4A Chg 1 (Admin Chg)	Technology Readiness Assessment Guide	10/22/2015
DOE G 413.3-7A Chg 2 (LtdChg)	Risk Management Guide	11/22/2021
DOE G 413.3-9A	Project Reviews for Capital Asset Projects	9/14/2018
DOE G 413.3-15A	Project Execution Plans	9/14/2018
DOE G 413.3-16A Chg 1 (Admin Chg)	Project Completion/Closeout Guide	10/22/2015
DOE G 413.3-17 Chg 1 (Admin Chg)	Mission Need Statement	10/22/2015
DOE G 413.3-18A Chg 1 (Admin Chg)	Integrated Project Team Guide for Formation and Implementation	10/22/2015
DOE G 413.3-19 Chg 2 (Admin Chg)	Staffing Guide for Project Management	10/22/2015
DOE G 413.3-22	Analysis of Alternatives Guide	6/6/2018
DOE G 413.3-23	Nuclear Facilities Commissioning	8/30/2019
DOE O 414.1E	Quality Assurance	12/18/2024
DOE G 414.1-1C	Management and Independent Assessments Guide	3/27/2014
DOE G 414.1-2B Chg 2 (Admin Chg)	Quality Assurance Program Guide	5/8/2013
DOE G 414.1-4	Safety Software Guide for Use with 10 CFR 830, Subpart A, Quality Assurance Requirements, and DOE O 414.1C, Quality Assurance	6/17/2005
DOE P 420.1	Department of Energy Nuclear Safety Policy	2/8/2011

ID	Document Title	Last Issued
DOE O 420.1C Chg 3 (LtdChg)	Facility Safety	11/14/2019
DOE G 420.1-1A	Nonreactor Nuclear Safety Design Guide for use with DOE O 420.1C, Facility Safety	12/4/2012
DOE O 420.2D	Safety of Accelerators	9/9/2022
DOE G 420.2-1A	Accelerator Facility Safety Implementation Guide for DOE O 420.2C, Safety of Accelerator Facilities	8/1/2014
DOE O 421.1	Nuclear Safety Basis	TBD ²
DOE G 421.1-2A	Implementation Guide for Use in Developing Documented Safety Analyses to Meet Subpart B of 10 CFR 830	12/19/2011
DOE O 422.1 Chg 4 (LtdChg)	Conduct of Operations	2/3/2022
DOE G 423.1-1B	Implementation Guide for Use in Developing Technical Safety Requirements	3/18/2015
DOE G 424.1-1C	Implementation Guide for Use in Addressing Unreviewed Safety Question Requirements	7/27/2022
DOE O 425.1E	Verification Of Readiness To Startup Or Restart Nuclear Facilities	9/25/2024
DOE O 426.1B	Department of Energy Federal Technical Capabilities	3/5/2020
DOE O 426.2A Chg 1 (AdminChg)	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	5/30/2024
DOE O 430.1C Chg 2 (AdminChg)	Real Property Asset Management	9/17/2020
DOE G 430.1-2	Implementation Guide for Surveillance and Maintenance during Facility Transition and Disposition	9/29/1999
DOE G 430.1-3	Deactivation Implementation Guide	9/29/1999
DOE G 430.1-4	Decommissioning Implementation Guide	9/2/1999
DOE G 430.1-5	Transition Implementation Guide	4/24/2001
DOE O 433.1B Chg 1 (Admin Chg)	Maintenance Management Program for DOE Nuclear Facilities	3/12/2013
DOE G 433.1-1A Chg 1 (Admin Chg)	Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1B	6/14/2013
DOE O 435.1 Chg 2 (AdminChg)	Radioactive Waste Management	1/11/2021
DOE M 435.1-1 Chg 3 (LtdChg)	Radioactive Waste Management Manual	1/11/2021
DOE O 440.1B Chg 4 (AdminChg)	Worker Protection Program for DOE (Including the National Nuclear Security Administration) Federal Employees	5/2/2022
DOE G 440.1-1B Chg 1 (Admin Chg)	Worker Safety and Health Program for DOE (Including the National Nuclear Security Administration) Federal and Contractor Employees	3/22/2013

² This standard has not been issued, so the date is to be determined (TBD).

ID	Document Title	Last Issued
DOE M 441.1-1 Chg 1 (Admin Chg)	Nuclear Material Packaging	2/24/2016
DOE G 441.1-1C Chg 1 (Admin Chg)	Radiation Protection Programs Guide for Use with Title 10, Code of Federal Regulations, Part 835, Occupational Radiation Protection	7/8/2011
DOE O 442.1B	Department of Energy Employee Concerns Program	1/31/2019
DOE O 442.2 Chg 1 (PgChg)	Differing Professional Opinions for Technical Issues Involving Environmental, Safety, and Health Technical Concerns	10/5/2016
DOE O 450.2, Chg 1 (MinChg)	Integrated Safety Management	1/17/2017
DOE P 450.4A Chg 1 (MinChg)	Integrated Safety Management Policy	1/18/2018
DOE G 450.4-1C	Integrated Safety Management System Guide	9/29/2011
DOE O 452.1F	Nuclear Explosive and Weapon Surety Program	1/22/2023
DOE O 452.2F	Nuclear Explosive Safety	7/27/2020
DOE O 452.3	Management of the Department of Energy Nuclear Weapons Complex	6/8/2005
DOE P 454.1 Chg 1 (Admin Chg)	Use of Institutional Controls	12/7/2015
DOE O 458.1, Chg 5 (Admin Chg)	Radiation Protection of the Public and the Environment	1/30/2025
DOE O 460.1D Chg 1 (LtdChg)	Hazardous Materials Packaging and Transportation Safety	6/10/2022
DOE G 460.1-1	Implementation Guide for Use with DOE O 460.1A, Packaging and Transportation Safety	6/5/1997
DOE O 460.2B	Departmental Materials Transportation Management	6/10/2022
DOE G 460.2-1	Implementation Guide for Use with DOE O 460.2 Departmental Materials Transportation and Packaging Management	11/15/1996
DOE O 461.2	Onsite Packaging and Transfer of Materials of National Security Interest	11/1/2010

DOE Technical Standards (Standards and Handbooks)

ID	Document Title	Last Issued
DOE-STD-1020-2016	Natural Phenomena Hazards Analysis and Design Criteria for DOE Facilities (Invoked)	12/4/2016
DOE-STD-1026-2016	NNSA Package Certification Engineer Functional Area Qualification Standard	5/19/2016
DOE-STD-1027-2018 Chg Notice 1	Hazard Categorization of DOE Nuclear Facilities	1/22/2019
DOE-HDBK-1028-2009	Human Performance Improvement Handbook, Volume 1 (Part 1 of 2, links to all Volumes)	6/22/2009

ID	Document Title	Last Issued
DOE-HDBK-1046-2016 (Reaffirmed 2022)	Temporary Emergency Exposure Limits for Chemicals: Methods and Practice	3/31/2022
DOE-STD-1063-2021	DOE Standard Facility Representatives (Invoked)	12/10/2021
DOE-STD-1066-2023	Fire Protection	6/9/2023
DOE-STD-1070-94 (Reaffirmed 2014)	Criteria for Evaluation of Nuclear Facility Training Programs	7/22/2014
DOE-STD-1073-2016	Configuration Management (Invoked)	12/23/2016
DOE-HDBK-1076-94 (Reaffirmed 1999)	Table-Top Job Analysis	12/12/1999
DOE-HDBK-1078-94 (Reaffirmed 2014)	Training Program Handbook: A Systematic Approach to Training	6/22/2014
DOE-HDBK-1081-2014 (Reaffirmed 2020)	Primer on Spontaneous Heating and Pyrophoricity	7/22/2020
DOE-STD-1083-2009 (Reaffirmed 2015)	Processing Exemptions to Nuclear Safety Rules and Approval of Alternative Methods for Documented Safety Analyses	8/14/2015
DOE-STD-1090-2020	Hoisting and Rigging	7/1/2020
DOE-HDBK-1092-2013	Electrical Safety	7/25/2013
DOE-STD-1095-2025	Department of Energy Laboratory Accreditation Program for Personnel Dosimetry	1/21/2025
DOE-STD-1098-2017	Radiological Control	1/31/2017
DOE-HDBK-1100-2004 (Reaffirmed 2022)	Chemical Process Hazards Analysis	10/12/2022
DOE-HDBK-1101-2004	Process Safety Management for Highly Hazardous Chemicals	8/26/2004
DOE-STD-1104-2016	Review and Approval of Nuclear Facility Safety Basis and Safety Design Basis Documents (Invoked)	12/21/2016
DOE-STD-1111-2018	Department of Energy Laboratory Accreditation Program Administration	9/7/2018
DOE-STD-1112-2019	Department of Energy Laboratory Accreditation Program for Radiobioassay	8/1/2019
DOE-HDBK-1118-99 (Reaffirmed 2014)	Best Practices for Continuing Training	1/9/2014
DOE-STD-1120-2016	Preparation of Documented Safety Analysis for Decommissioning and Environmental Restoration Activities	3/15/2016
DOE-STD-1121-2008 (Reaffirmed 2022)	Internal Dosimetry	11/1/2022
DOE-HDBK-1122-2009 Chg Notice 2	Radiological Control Technician Training (Part 1 of 9, links to all Parts)	3/11/2011
FTCP-PSQS-1125-2021	Weapon Quality Assurance Professional Program-Specific Qualification Standard	1/19/2021
DOE-STD-1128-2013 (Reaffirmed 2020)	Good Practices for Occupational Radiological Protection in Plutonium Facilities	1/31/2020
DOE-STD-1129-2015	Tritium Handling and Safe Storage	9/16/2015
DOE-HDBK-1130-2022	Radiological Worker Training	11/8/2022

ID	Document Title	Last Issued
DOE-HDBK-1132-99 (Reaffirmed 2014)	Design Considerations	2/1/2014
DOE-STD-1136-2017 (Reaffirmed 2024)	Good Practices for Occupational Radiological Protection in Uranium Facilities	5/8/2024
DOE-STD-1137-2024	Fire Protection Functional Area Qualification Standard	8/26/2024
DOE-HDBK-1139-2006	Chemical Management (Part 1 of 3, links to all Parts)	6/15/2006
DOE-STD-1146-2017	General Technical Base Qualification Standard	12/22/2017
DOE-STD-1150-2013	Quality Assurance Functional Area Qualification Standard	12/2/2013
DOE-STD-1151-2019	Facility Representative Functional Area Qualification Standard	5/21/2019
DOE-STD-1155-2002	Transportation and Traffic Management Functional Area Qualification	10/15/2002
DOE-STD-1159-2003	Waste Management Functional Area Qualification Standard	11/3/2003
DOE-HDBK-1163-2020	Integration of Hazard Analyses	10/22/2020
DOE-STD-1167-2003 (Reaffirmed 2018)	Respiratory Acceptance Program for Supplied Air Suits (Invoked)	9/11/2018
DOE-HDBK-1169-2022 Chg Notice 1	Handbook for use with DOE-STD-1269-2022, "Air Cleaning Systems in DOE Nuclear Facilities"	3/28/2023
DOE-STD-1172-2011	Safety Software Quality Assurance Functional Area Qualification Standard	2/10/2011
DOE-STD-1173-2024	Criticality Safety Functional Area Qualification Standard	9/13/2024
DOE-STD-1174-2024	Radiation Protection Functional Area Qualification Standard	10/8/2024
DOE-STD-1175-2019	Senior Technical Safety Manager Functional Area Qualification Standard	6/26/2019
DOE-STD-1177-2024 Chg Notice 1	Emergency Management Functional Area Qualification Standard	4/3/2024
FTCP-PSQS-1178-2020	Technical Program Manager/Program Liaison Program Specific Qualification Standard	6/12/2020
DOE-STD-1181-2014	Facility Maintenance Management Functional Area Qualification Standard	4/24/2014
DOE-STD-1183-2019	Nuclear Safety Specialist Functional Area Qualification Standard	4/8/2019
DOE-STD-1185-2007 Chg Notice 1	Nuclear Explosive Safety Study Functional Area Qualification Standard	5/27/2010
DOE-STD-1186-2016	Specific Administrative Controls	12/16/2016
DOE-STD-1189-2016	Integration of Safety into the Design Process (Invoked)	12/22/2016
DOE-STD-1194-2019	Nuclear Materials Control and Accountability	9/25/2019
DOE-STD-1195-2011	Design of Safety Significant Safety Instrumented Systems Used at DOE Nonreactor Nuclear Facilities	5/5/2011
DOE-STD-1196-2022	Derived Concentration Technical Standard (Invoked)	12/8/2022
DOE-STD-1197-2024	Causal Analysis	9/19/2024
DOE-HDBK-1208-2012	Accident and Operational Safety Analysis, Volume I, Accident Analysis Techniques (Part 1 of 2, links to all Parts)	7/22/2012
DOE-HDBK-1211-2014	Activity-Level Work Planning and Control Implementation	6/2/2014
DOE-STD-1212-2025	Explosives Safety	1/2/2025

ID	Document Title	Last Issued
DOE-HDBK-1214-2014 (Reaffirmed 2018)	Conduct of Operations Assessment Field Handbook	6/4/2018
DOE-HDBK-1215-2014 Chg Notice 1 (Reaffirmed 2022)	Optimizing Radiation Protection of the Public and the Environment for use with DOE O 458.1, ALARA Requirements	10/6/2022
DOE-HDBK-1220-2017	Natural Phenomena Hazards Analysis and Design Handbook for DOE Facilities	8/17/2017
DOE-HDBK-1221-2024	Suspect/Counterfeit Items Resource Handbook	7/25/2024
DOE-HDBK-1224-2024	Hazard and Accident Analysis Handbook	2/28/2024
DOE-HDBK-1226-2019	Conduct of Operations Implementation	3/6/2019
DOE-STD-1228-2019	Preparation of Documented Safety Analysis for Hazard Category 3 DOE Nuclear Facilities	5/15/2019
DOE-HDBK-1230-2019	Commercial Grade Dedication Application Handbook	7/16/2019
DOE-STD-1234-YR	Radioactive Material Storage and Handling Containers	TBD
DOE-STD-1237-2021	Documented Safety Analysis for DOE Reactor Facilities	2/16/2021
DOE-STD-1239-2024	Chemical Safety Management Program	12/13/2024
DOE-HDBK-1240-2021	Institutional Controls Implementation Handbook for Use with Use of Institutional Controls	3/26/2021
DOE-STD-1241-2023	Implementing Release and Clearance of Property Requirements	3/1/2023
DOE-HDBK-1244-2023	Biokinetic and Dosimetric Models Used In DOE-STD-1196-2002, Derived Concentration Technical Standard	12/13/2023
DOE-STD-1269-2022	Air Cleaning Systems in DOE Nuclear Facilities	4/15/2022
DOE-HDBK-1545-YR	Seismic Evaluation Procedure for Equipment in U.S. Department of Energy Facilities	TBD
DOE-STD-1628-2013	Development of Probabilistic Risk Assessments for Nuclear Safety Applications	11/4/2013
DOE-STD-3006-2010	Planning and Conducting Readiness Reviews	5/6/2010
DOE-STD-3007-2017	Preparing Criticality Safety Evaluations at Department of Energy Nonreactor Nuclear Facilities (Invoked)	12/20/2017
DOE-STD-3009-2014	Preparation of Nonreactor Nuclear Facility Documented Safety Analysis (Invoked)	11/12/2014
DOE-HDBK-3010-94 Volume I (Reaffirmed 2013)	Airborne Release Fractions/Rates and Respirable Fractions for Nonreactor Nuclear Facilities, Volume I, Analysis of Experimental Data (Part 1 of 2, links to all Parts)	12/26/2013
DOE-STD-3011-2016	Preparation of Documented Safety Analysis for Interim Operations at DOE Nuclear Facilities	1/22/2016
DOE-HDBK-3012-2015	Team Leader's Good Practices for Readiness Reviews	11/24/2015
DOE-STD-3013-2018	Stabilization, Packaging and Storage of Plutonium-Bearing Materials	11/1/2018
DOE-STD-3014-2006 (Reaffirmed 2006)	Accident Analysis for Aircraft Crash into Hazardous Facilities	5/29/2006
DOE-NA-STD-3016-2023	Hazard Analysis Report for Nuclear Explosive Operations	4/10/2023
DOE-STD-3020-2015	Specification for HEPA Filters Used by DOE Contractors	6/23/2015
DOE-STD-3024-2011	Content of System Design Descriptions	8/22/2011

ID	Document Title	Last Issued
DOE-STD-3025-2022	Quality Assurance Inspection and Performance Testing of High Efficiency Particulate Air (HEPA) and Ultra Low Penetrating Air (ULPA) Filters	2/3/2022
DOE-HDBK-3027-99	Integrated Safety Management Systems (ISMS) Verification Team Leader's Handbook	6/9/1999
DOE-HDBK-5001-2017	Procurement, Use, and Maintenance of Standard Freight Containers for Use in Transportation and Disposal of Radioactive Material and Radioactive Waste	9/28/2017
DOE-STD-5002-2017	Disposal Authorization Statement and Tank Closure Documentation	7/20/2017
DOE-STD-5506-2021	Preparation of Safety Basis Documents for Transuranic (TRU) Waste Facilities	8/9/2021
DOE-STD-7501-99	The DOE Corporate Lessons Learned Program	12/1/1999
DOE-STD-8000-2021	Safety System Oversight Functional Area Qualification Standard	10/28/2021
DOE-STD-8001-2023	Environmental Protection Oversight Functional Area Qualification Standard	11/1/2023
DOE-STD-8002-2023	Explosives Safety Functional Area Qualification Standard	12/29/2023
DOE-STD-8003-2023	Worker Safety and Health Program Functional Area Qualification Standard	12/29/2023
DOE-STD-8004-2024	Low-Level Waste Disposal Facility Federal Review Group (LFRG) Functional Area Qualification Standard	10/8/2024

NNSA Directives

(Policies, Advance Change Directives, Supplemental Directives)

ID	Document Title	Last Issued
ACD 401.1A	Updating Weapon Quality Policy and Process Requirements Definition for Conditional Products and Their Use in Weapons and Weapon-Related Assemblies	1/31/2024
ACD 401.2	Updated Weapon Quality Assurance Procurement Requirements in NNSA Policy (NAP) 401.1A, Weapon Quality Policy	1/31/2024
NAP 401.1A Admin Chg 3	Weapon Quality Policy	2/2/2024
NAP 413.4A	Technology Readiness Assessment	12/18/2024
NAP 414.1	Quality Management System	1/10/2017
NAP 540.3A	Corporate Performance Evaluation Process for Management and Operating Contractors	9/4/2024
NNSA SD 226.1D	NNSA Site Assurance and Oversight	12/5/2024
NNSA SD 251.1C	Directives Management	12/16/2024
SD 360.1A Admin Chg 1	Federal Employee Training	7/21/2025
NNSA SD 413.3 Admin Chg 1	Program and Project Management for the Acquisition of Capital Assets	9/18/2024
NNSA SD 413.3-1	Project Reviews	5/10/2021

ID	Document Title	Last Issued
NNSA SD 413.3-3	Analysis of Alternatives	6/23/2021
NNSA SD 413.3-4	Program Requirements Document	9/15/2021
NNSA SD 426.1A Admin Chg 1	Technical Qualification Program (TQP)	5/8/2023
NNSA SD 430.1	Real Property Asset Management	1/15/2020
NNSA SD 450.2B	Functions, Responsibilities, and Authorities (FRA) for Safety Management	4/23/2021
NNSA SD 450.2-1A	Delegation of Nuclear Safety Authorities	1/4/2024
NNSA SD 452.1B	Defense Programs Business Process System (DPBPS)	4/10/2025
NNSA SD 452.2C	Nuclear Explosive Safety Evaluation Processes	4/25/2025
NNSA SD 452.3-2A	Phase X/Phase 6.X Processes	11/8/2022
NNSA SD 452.4-1	Nuclear Enterprise Assurance (NEA)	1/27/2022