National Nuclear Security Administration Supplemental Listing of Directives Affecting Nuclear Safety Requirements

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U.S. DEPARTMENT OF ENERGY
National Nuclear Security Administration
Office of the Chief of Defense Nuclear Safety

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ADDITIONAL DIRECTIVES (LATEST VERSION) REQUIRING CENTRAL TECHNICAL AUTHORITY CONCURRENCE PRIOR TO GRANTING EXEMPTIONS, EQUIVALENCIES OR EXCEPTIONS

This document is maintained by the NNSA Chief of Defense Nuclear Safety and lists any directives, including Supplemental Directives or other NNSA issuances, for which NNSA employees must obtain Central Technical Authority concurrence prior to granting exemptions, equivalencies or exceptions. To enable use of a single reference, an updated list of directives identified in Attachment 1 from DOE O 410.1 is included on this list. If documents on this list are superseded prior to revision of this list, CTA concurrence requirements apply to the successor documents.

Directive	Title/Comment	Lead NA-1 staff org
DOE O 413.3B	Program and Project Management for the Acquisition of Capital Assets	NA-SH-10
DOE O 414.1D	Quality Assurance	NA-SH-10
DOE O 420.1B Chg 1	Facility Safety	NA-SH-10
DOE O 422.1	Conduct of Operations Requirements for DOE Facilities	NA-SH-10
DOE O 425.1D	Startup and Restart of Nuclear Facilities	NA-SH-10
DOE O 426.2	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	NA-SH-10
DOE O 433.1B	Maintenance Management Program for DOE Nuclear Facilities	NA-SH-10
DOE M 435.1-1 Chg 1	Radioactive Waste Management Manual	NA-SH-10
DOE O 435.1 Chg 1	Radioactive Waste Management	NA-SH-10
DOE M 440.1-1A	DOE Explosives Safety Manual	NA-SH-10
DOE O 452.1D	Nuclear Explosive and Weapon Surety Program	NA-SH-10
DOE M 452.2-1A	Nuclear Explosive Safety Manual	NA-SH-10
DOE M 452.2-2	Nuclear Explosive Safety Evaluation Processes	NA-SH-10

DOE O 452.2D	Nuclear Explosive Safety	NA-SH-10
DOE O 460.1C	Packaging and Transportation Safety	NA-SH-10
DOE O 461.1B	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest Manual	NA-SH-10
DOE O 461.2	Onsite Packaging and Transfer of Materials of National Security Interest	NA-SH-10
DOE O 5480.30 Chg 1	Nuclear Reactor Safety Design Criteria	NA-SH-10

ADDITIONAL REGULATIONS AND DIRECTIVES (LATEST VERSION) REQUIRING CENTRAL TECHNICAL AUTHORITY CONCURRENCE PRIOR TO REVISION OR CANCELLATION

This document is maintained by the NNSA Chief of Defense Nuclear Safety and lists directives not included in DOE O 410.1, including Supplemental Directives or other NNSA issuances, for which NNSA personnel must obtain Central Technical Authority concurrence prior to providing NNSA concurrence on revisions or cancellations. To enable use of a single reference, an update of the list of directives identified in Attachment 2 from DOE O 410.1 is included on this list. If documents on this list are superseded prior to revision of this list, CTA concurrence requirements apply to the successor documents.

Directive	**Title/Comment**	**Lead NA-1 staff org**
BOP-10.002	Delegations of Nuclear Safety Authority	NA-SH-10
BOP-50.001	NNSA ESAAB Equivalent Process	NA-SH-20
BOP-50.003	Establishment of a National Nuclear Security Administration (NNSA) Independent Project Review (IPR) Policy	NA-SH-10
NA-1 M 226.1A	NNSA Line Oversight and Contractor Assurance System (LOCAS)	NA-SH-20
NA-1 SD 226.1-1	Headquarters Biennial Review of Nuclear Safety Performance Manual	NA-SH-10
NA-1 M 410.1A	Implementation of NNSA Central Technical Authority Responsibilities Regarding Nuclear Safety Requirements	NA-SH-10
NA-1 SD 411.1-1C	NNSA Safety Management Functions, Responsibilities and Authorities Manual	NA-SH-20
NA-1 M 426.1-1A	Technical Qualification Program Plan for Federal Personnel with Safety Responsibilities at Defense Nuclear Facilities	NA-SH-20
NA-1 SD 442.1-1	NNSA Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
NA-1 SD 450.4-1	National Nuclear Security Administration Headquarters Integrated Safety Management System Description	NA-SH-20
DOE M 140.1-1B	Interface with the Defense Nuclear Facilities Safety Board	NA-SH-10
DOE G 151.1-1A	Emergency Management Fundamentals and the Operational Emergency Base Program	NA-SH-10
DOE G 151.1-2	Technical Planning Basis	NA-SH-10
DOE G 151.1-3	Programmatic Elements (cancels DOE G 151.1-1, V5-1, DOE G 151.1-1, V5-2, DOE G 151.1-1, V5-3, DOE G 151.1-1, V5-4, DOE G 151.1-1, V7-1, and DOE G 151.1-1, V7-3)	NA-SH-10
DOE G 151.1-4	Response Elements (cancels DOE G 151.1-1, V3-1, DOE G 151.1-1, V3-2, DOE G 151.1-1, V3-3, DOE G 151.1-1, V3-4, DOE G 151.1-1, V4-1, DOE G 151.1-1, V4-2, DOE G 151.1-1, V4-3, DOE G 151.1-1, V4-4, DOE G 151.1-1, V4-5, and DOE G 151.1-1, V4-6)	NA-SH-10
DOE O 151.1C	Comprehensive Emergency Management System	NA-SH-10
DOE O 153.1	Departmental Radiological Emergency Response Assets	NA-SH-20
DOE G 200.1-1 series	Software Engineering Methodology	NA-SH-20
DOE O 210.2A	DOE Corporate Operating Experience Program	NA-SH-20
DOE O 225.1B	Accident Investigations	NA-SH-20
DOE O 226.1B	Implementation of Department of Energy Oversight Policy	NA-SH-20
DOE P 226.1B	Department of Energy Oversight Policy	NA-SH-20
DOE O 227.1	Independent Oversight Program	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE O 231.1B	Environment, Safety and Health Reporting	NA-SH-20
DOE O 232.2	Occurrence Reporting and Processing of Operations Information	NA-SH-20
DOE O 251.1C	Departmental Directives Program	NA-SH-10
DOE O 252.1A	Technical Standards Program	NA-SH-20
DOE O 360.1C	Federal Employee Training	NA-SH-20
DOE O 410.1	Central Technical Authority Responsibilities Regarding Nuclear Safety Requirements	NA-SH-10
DOE O 410.2	Management of Nuclear Materials	NA-SH-10
DOE O 413.3B	Program and Project Management for Acquisition of Capital Assets	NA-SH-10
DOE G 413.3-3	Safeguards and Security For Project Management	NA-SH-10
DOE G 414.1-1B	Management and Independent Assessments Guide for Use with 10 CFR Part 830, Subpart A, and DOE O 414.1C, Quality Assurance; DOE M 450.4-1, Integrated Safety Management System Manual; and DOE O 226.1A, Implementation of Department of Energy Oversight Policy	NA-SH-20
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	NA-SH-20
DOE O 414.1D	Quality Assurance	NA-SH-20
DOE O 420.1B Chg 1	Facility Safety	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE P 420.1	Department of Energy Nuclear Safety Policy	NA-SH-10
DOE G 420.1-1	Nonreactor Nuclear Safety Design Criteria and Explosive Safety Criteria Guide for Use with DOE O 420.1 Facility Safety	NA-SH-20
DOE G 420.1-2	Guide for the Mitigation of Natural Phenomena Hazards for DOE Nuclear Facility and Non-Nuclear Facilities	NA-SH-10
DOE G 420.1-3	Implementation Guide for DOE Fire Protection and Emergency Services Programs for Use with DOE O 420.1B, Facility Safety (replaces DOE G 440.1-5, Implementation Guide for use with DOE Orders 420.1 and 440.1 Fire Safety Program.)	NA-SH-10
DOE G 421.1-2	Implementation Guide for Use in Developing Documented Safety Analyses to Meet Subpart B of 10 CFR 830	NA-SH-10
DOE O 422.1	Conduct of Operations	NA-SH-10
DOE G 423.1-1A	Implementation Guide for Use in Developing Technical Safety Requirements	NA-SH-10
DOE G 424.1-1B	Implementation Guide for Use in Addressing Unreviewed Safety Questions Requirements	NA-SH-10
DOE O 425.1D	Startup and Restart of Nuclear Facilities	NA-SH-10
DOE O 426.1	Federal Technical Capability	NA-SH-20
DOE P 426.1	Federal Technical Capability Policy for Defense Nuclear Facilities	NA-SH-20
DOE O 426.2	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	NA-SH-10
DOE G 430.1-2	Implementation Guide for Surveillance and Maintenance During Facility Transition and Disposition	NA-SH-20
DOE G 430.1-3	Deactivation Implementation Guide	NA-SH-20

Directive	Title/Comment	Lead NA-1 staff org
DOE G 430.1-4	Decommissioning Implementation Guide	NA-SH-20
DOE G 430.1-5	Transition Implementation Guide	NA-SH-20
DOE O 430.1B Chg 2	Real Property Asset Management	NA-SH-20
DOE G 433.1-1A	Nuclear Facility Maintenance Management Program Guide for Use with DOE O 433.1B	NA-SH-10
DOE O 433.1B	Nuclear Facility Maintenance Management Program	NA-SH-10
DOE O 435.1 Chg 1	Radioactive Waste Management	NA-SH-20
DOE M 435.1-1 Chg 1	Radioactive Waste Management Manual	NA-SH-20
DOE N 435.1	Contact-Handled and Remote-Handled Transuranic Waste Processing	NA-SH-20
DOE G 435.1-1 series	Implementation Guide for Use with DOE M 435.1-1 Chapters 1 through 4	NA-SH-20
DOE O 436.1	Departmental Sustainability	NA-SH-20
DOE O 440.1B	Worker Protection Management for DOE Federal Employees	NA-SH-20
DOE G 440.1-1A	Worker Protection Program for DOE (including the National Nuclear Security Administration) Federal Employees Guide for Use with DOE O 440.1B	NA-SH-20
DOE M 440.1-1A	DOE Explosives Safety Manual	NA-SH-20
DOE G 440.1-8	Implementation Guide for Use with 10 CFR 851, Worker Safety and Health Program	NA-SH-20
DOE M 441.1-1	Nuclear Material Packaging Manual	NA-SH-10
DOE G 441.1-1C	Radiation Protection Programs Guide for Use with Title 10, Code of Federal Regulations, Part 835, Occupational Radiation Protection	NA-SH-20
DOE O 442.2	Differing Professional Opinions for Technical Issues Involving Environment, Safety and Health	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE G 442.1-1	Department of Energy Employee Concerns Program Guide	NA-SH-20
DOE O 442.1A	Department Of Energy Employee Concerns Program	NA-SH-20
DOE O 450.2	Integrated Safety Management	NA-SH-20
DOE G 450.3-3	Tailoring for Integrated Safety Management Applications	NA-SH-10
DOE P 450.4A	Safety Management System Policy	NA-SH-20
DOE G 450.4-1B series	Integrated Safety Management System Guide, Volumes 1 and 2	NA-SH-20
DOE O 451.1B Chg 2	National Environmental Policy Act Compliance Program	NA-SH-20
DOE O 452.1D	Nuclear Explosive and Weapon Surety Program	NA-SH-10
DOE M 452.2-1A	Nuclear Explosive Safety Manual	NA-SH-10
DOE M 452.2-2	Nuclear Explosive Safety Evaluation Processes	NA-SH-10
DOE O 452.2D	Nuclear Explosive Safety	NA-SH-10
DOE P 454.1	Use of Institutional Controls	NA-SH-20
DOE G 454.1-1	Institutional Controls Implementation Guide for Use with DOE P 454.1, Use of Institutional Controls	NA-SH-20
DOE P 455.1	Use of Risk-Based End States	NA-SH-20
DOE O 458.1 Chg2	Radiation Protection of the Public and the Environment	NA-SH-20
DOE G 460.1-1 series	Packaging and Transportation Safety	NA-SH-10
DOE O 460.1C	Packaging and Transportation Safety	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE O 460.2A	Departmental Materials Transportation and Packaging Management	NA-SH-10
DOE G 460.2-1	Implementation Guide for Use with DOE O 460.2 Departmental Materials Transportation and Packaging Management	NA-SH-10
DOE M 460.2-1A	Radioactive Material Transportation Practices Manual	NA-SH-10
DOE M 461.1-1 Chg 1	Packaging and Transfer of Materials of National Security Interest Manual	NA-SH-10
DOE O 461.1B	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest Manual	NA-SH-10
DOE O 461.2	Onsite Packaging and Transfer of Materials of National Security Interest	NA-SH-10
DOE M 470.4-2A	Physical Protection	NA-SH-10
DOE O 5480.30 Chg 1	Nuclear Reactor Safety Design Criteria	NA-SH-10
10 CFR 820	Procedural Rules for DOE Nuclear Activities	NA-SH-10
10 CFR 830	Nuclear Safety Management	NA-SH-10
10 CFR 835	Occupational Radiation Protection	NA-SH-20
10 CFR 851	Worker Safety and Health Program	NA-SH-20
48 CFR 970.5203-2	DOE Acquisition Regulation, Performance Improvement and Collaboration	NA-SH-10
48 CFR 970.5204-2	DOE Acquisition Regulation, Laws, Regulations and DOE Directives Clause	NA-SH-10
48 CFR 970.5215-3	DOE Acquisition Regulation, Conditional Payment of Fee, Profit and other Incentives—Facility Management Contracts Clause	NA-SH-20
48 CFR 970.5223-1	DOE Acquisition Regulation, Integration of Environment, Safety and Health Into Work Planning and Execution Clause	NA-SH-20
DOE-STD-1020-2002	Natural Phenomena Hazards Design and Evaluation Criteria for Department of Energy Facilities	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE-STD-1021-93	Natural Phenomena Hazards Performance Categorization Guidelines for Structures, Systems, and Components	NA-SH-10
DOE-STD-1022-94	Natural Phenomena Hazards Characterization Guide	NA-SH-10
DOE-STD-1023-95	Natural Phenomena Hazards Assessment Criteria	NA-SH-10
DOE-STD-1027-92 Chg 1	Hazard Categorization and Accident Analysis Techniques for Compliance with DOE O 5480.23, Nuclear Safety Analysis Reports	NA-SH-10
DOE-STD-1030-96	Guide to Good Practices for Lockouts and Tagouts	NA-SH-20
DOE-STD-1063-2011	Facility Representatives	NA-SH-20
DOE-STD-1066-99	Fire Protection Design Criteria	NA-SH-10
DOE-STD-1073-2003	Configuration Management Program	NA-SH-10
DOE-STD-1083-2009	Requesting and Granting Exemptions to Nuclear Safety Rules	NA-SH-10
DOE-STD-1088-95	Fire Protection for Relocatable Structures	NA-SH-10
DOE-STD-1090-07	Hoisting and Rigging	NA-SH-20
DOE-HBK-1099-96	Establishing Nuclear Facility Drill Programs	NA-SH-10
DOE-STD-1104-2009	Review and Approval of Nuclear Facility Safety Basis Documents (Documented Safety Analysis and Technical Safety Requirements)	NA-SH-10
DOE-STD-1120-2005	Integration of Environment, Safety, and Health into Facility Disposition Activities, Volumes 1 and 2	NA-SH-20
DOE-STD-1129-2008	Tritium Handling and Safe Storage	NA-SH-10
DOE-STD-1134-99	Review Guide for Criticality Safety Evaluations	NA-SH-10
DOE-STD-1135-99	Guidance for Nuclear Criticality Safety Engineer Training and Qualification	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE-STD-1137-2007	Fire Protection Engineering Functional Area Qualification Standard (replaces DOE-STD-1137-2000)	NA-SH-10
DOE-STD-1146-2007	General Technical Base Qualification Standard	NA-SH-20
DOE-HBK-1148-2002	Work Smart Standards (WSS) Users Handbook	NA-SH-10
DOE-STD-1150-2002	Quality Assurance Functional Area Qualification Standard	NA-SH-20
DOE-STD-1151-2010	Facility Representative Functional Area Qualification	NA-SH-10
DOE-STD-1158-2010	Self-Assessment Standard for DOE Contractor Criticality Safety Programs	NA-SH-10
DOE-STD-1159-2003	Waste Management Functional Area Qualification Standard	NA-SH-20
DOE-STD-1166-2003	Deactivation and Decommission Functional Area Qualification Standard	NA-SH-20
DOE-STD-1172-2011	Safety Software Quality Assurance Functional Area Qualification Standard	NA-SH-20
DOE-STD-1173-2009	Criticality Safety Functional Area Qualification Standard	NA-SH-10
DOE-STD-1174-2003	Radiation Protection Functional Area Qualification Standard	NA-SH-20
DOE-STD-1175-2006	Senior Technical Safety Manager Functional Area Qualification Standard	NA-SH-20
DOE-STD-1183-2007	Nuclear Safety Specialist Functional Area Qualification Standard	NA-SH-10
DOE-STD-1185-2007 CN-1	Nuclear Explosive Safety Study Functional Area Qualification Standard	NA-SH-10
DOE-STD-1186-2004	Specific Administrative Controls	NA-SH-10
DOE-STD-1189-2008	Integration of Safety Into The Design Process	NA-SH-10
DOE-STD-1195-2011	Design of Safety Significant Instrumented Systems Used at DOE Non-Reactor Nuclear Facilities	NA-SH-10
DOE-STD-1196-2011	Derived Concentration Technical Standard	NA-SH-10

Directive	Title/Comment	Lead NA-1 staff org
DOE-STD-3006-2010	Planning and Conduct of Operational Readiness Reviews (ORR)	NA-SH-10
DOE-STD-3007-2007	Guidelines for Preparing Criticality Safety Evaluations at Department of Energy Non-Reactor Nuclear Facilities	NA-SH-10
DOE-STD-3009-94 Chg 3	Preparation Guide for U.S. DOE Nonreactor Nuclear Facility Safety Analysis Reports	NA-SH-10
DOE-HDBK-3010-94 Chg 1	Airborne Release Fractions/Rates and Respirable Fractions for Nonreactor Nuclear Facilities Volume 1 - Analysis of Experimental Data, December 1994 Volume 2 - Appendices, December 1994	NA-SH-10
DOE-STD-3011-2002	Guidance for Preparation of Basis for Interim Operation (BIO) Documents	NA-SH-10
DOE-HDBK-3012-2003	Guide To Good Practices For Operational Readiness Reviews (ORR), Team Leader's Guide	NA-SH-10
DOE-STD-3013-2004	Stabilization, Packaging, and Storage of Plutonium-Bearing Materials	NA-SH-10
DOE-STD-3014-96	Accident Analysis for Aircraft Crash into Hazardous Facilities	NA-SH-10
DOE-NA-STD-3016-2006	Hazard Analysis Reports for Nuclear Explosive Operations	NA-SH-10
DOE-STD-3020-2005	Specification for HEPA Filters Used by DOE Contractors	NA-SH-10
DOE-STD-3024-98	Content of System Design Descriptions	NA-SH-10
DOE-STD-3025-2007	Quality Assurance Inspection and Testing of HEPA Filters	NA-SH-10
DOE-STD-3028-2000	Criteria for Packaging and Storing Uranium-233-Bearing Materials	NA-SH-10
DOE-STD-5506-2007	Preparation of Safety Basis Documents for TRU Waste Facilities	NA-SH-10