

NRC INSPECTION MANUAL

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2800/044	Assessment of Physical Protection Requirements Under 10 CFR 150.14 for Agreement State Licensees Possessing, Using, or Transporting Special Nuclear Material of Low Strategic Significance 03/06/23 (23-005)
2801	Uranium Recovery and 11e.(2) Byproduct Material Facility Inspection Program 07/26/24 (24-022)
2810	Master Material License Oversight and Inspection Program 10/29/21 (21-036)
2815	Construction and Preoperational Inspection of Panoramic, Wet-Source-Storage Gamma Irradiators 03/27/01 (01-010)
2900	<u>Performance Appraisal Program</u>
2901	Team Inspections 05/20/22 (22-010)
2920	Construction Appraisal Team Inspection Program 03/29/85 (85-11)

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3100 Reserved

3200 Reserved

3300 Reserved

3400 Reserved

3500 Quality Assurance

- 35007 Quality Assurance Program Implementation During Construction and Pre-Construction Activities 02/09/22 (22-003)
- 35017 Quality Assurance Implementation Inspection 12/10/20 (20-070)
- 35023 RESERVED for Design Reliability Assurance Program
- 35031 RESERVED for Design Certification Pre-Meeting
- 35032 RESERVED for Pre-Docketing Design Certification Quality Assurance Controls Inspection
- 35033 RESERVED for Post-Docketing Design Certification Quality Assurance Controls Inspection
- 35034 Design Certification Testing Inspection 03/23/20 (20-017)
- 35101 QA Program Implementation Inspection for Operational Programs 12/29/21 (21-041)
- 35710 Quality Assurance Inspection of Safety-Related Software Used for Digital Instrumentation and Control in Nuclear Applications 04/18/24 (24-011)
- 35962 RESERVED for Part 52 QA Program Evaluation of Engineering Service Organization

3600 Organization and Administration

- 36100 Inspection of 10 CFR Part 21 and Programs for Reporting Defects and Noncompliance 02/10/23 (23-003)
- 36100.01 Inspection of 10 CFR 50.55(e) Programs for Reporting Defects and Noncompliance During Construction 03/08/23 (23-007)
- 36302 Part 52. Operational Staffing 08/19/08 (08-024)

3700 Design, Design Changes, Modifications

- 37060 10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection 10/18/22 (22-023)
- 37700 Design Changes and Modifications 09/17/01 (01-017) R
- 37801 Decommissioning Safety Reviews, Design Changes, And Modifications 06/27/25 (25-022)
- 37803 RESERVED
- 37804 Aircraft Impact Assessment 03/23/20 (20-017)

37805	Engineering Design Verification Inspections 04/08/20 (20-020)
37806	RESERVED Non-Nuclear Co-Located Facilities
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3900	<u>Records</u>
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40100	Independent Safety Culture Assessment Follow-up 02/12/25 (25-002)
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40600	Licensee Program for Managing Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Closure 05/29/20 (20-025)
40801	Problem Identification and Resolution at Permanently Shutdown Reactors 08/11/97 (97-012)
40802	Decommissioning Safety Reviews, Design Changes, And Modifications 06/27/25 (25-022)
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41500	Training and Qualification Effectiveness 06/13/95 (95-007) R
41501	Part 52, Review of Training and Qualification Programs 06/04/19 (19-018)
41502	Nuclear Power Plant Simulation Facilities 10/16/12 (12-024)
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42001	Emergency Operating Procedures 06/28/91 (91-009) R
42401	Part 52, Plant Procedures 10/27/10 (10-022)
42453	Part 52, Operating Procedures Inspection 08/19/08 (08-024)
42454	Part 52, Emergency Operating Procedures 09/09/13 (13-020)
42700	Plant Procedures 11/15/95 (95-015) R
4300	<u>Vendor Procedures</u>
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43003	Reactive Inspections of Nuclear Vendors 04/08/20 (20-020)
43004	Inspection of Commercial-Grade Dedication Programs 02/10/23 (23-003)
43005	NRC Oversight of Third-Party Organizations Implementing Quality Assurance Requirements 10/07/24 (24-026)
43006	Inspection of the Implementation of Mitigation Strategies Order Regulating the Use of National SAFER Response Centers 06/16/22 (22-013)

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4700 Containment (Post-Tensioning)

4800 Structural Steel and Supports

4900 Piping

49001 Inspection of Erosion-Corrosion / Flow-Accelerated-Corrosion Monitoring
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5000 Mechanical Components and Equipment

50001 Steam Generator Replacement Inspection 02/04/25 (25-001)
50002 Steam Generators 12/31/96 (96-024) R
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50054 Reactor Vessel Material Surveillance Program 12/04/08 (08-034)
50056 RESERVED for Reactor Vessel Material Surveillance Program

5100 Electrical Components and Systems

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Mechanical Equipment 06/26/17 (17-013)

5200 Instrumentation Systems and Components

52003 Digital Instrumentation and Control Modification Inspection
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5300 Containment Penetrations

5400 Cleanliness

5500 Welding

55050 Nuclear Welding General Inspection Procedure 06/20/83 (83-06) R

55100	Structural Welding General Inspection Procedure 06/20/83 (83-06) R
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56700	Calibration 03/23/05 (05-008) R
5700	<u>Nondestructive Examination, Destructive Examination and Fabrication Testing</u>
57050	Visual Testing Examination 03/09/99 (99-003) R
57060	Liquid Penetrant Testing Examination 03/09/99 (99-003) R
57070	Magnetic Particle Testing Examination 03/09/99 (99-003) R
57080	Ultrasonic Testing Examination 03/09/99 (99-003) R
57090	Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review 06/14/93 (93-005) R
5800	<u>Special Processes</u>
5900	<u>Reserve Shutdown System</u>
6000	<u>Fuel Fabrication, Handling and Storage</u>
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60710	Refueling Activities 07/27/95 (95-009) R
60715	Spent Fuel Pool Safety at Operating Reactors 09/16/20 (20-043)
60801	Decommissioning Spent Fuel Pool Maintenance, Surveillance, and Safety 06/27/25 (25-022)
60845	Operation of Inter-Unit Fuel Transfer Canister and Cask System 05/16/19 (19-015)
60851	Design Control of ISFSI Components 05/27/25 (25-013)
60852	ISFSI Component Fabrication by Outside Fabricators 05/27/25 (25-013)
60853	On-Site Fabrication of Components and Construction of an Independent Spent Fuel Storage Installation 05/27/25 (25-013)
60854	Preoperational Testing of an Independent Spent Fuel Storage Installation 05/27/25 (25-013)
60855	Operation of an Independent Spent Fuel Storage Installation 05/27/25 (25-013)
60856	Review of 10 CFR 72.212(b) Evaluations 05/27/25 (25-013)
60857	Review of 10 CFR 72.48 Evaluations 10/20/20 (20-052)
60858	Away-From-Reactor Independent Spent Fuel Storage Installation Inspection Guidance 05/27/25 (25-013)
60859	Independent Spent Fuel Storage Installation (ISFSI) License Renewal Inspection 09/11/2024 (24-025)
60860	RESERVED for Welding Verification Checklist for Transportation and ISFSI Components

60861	RESERVED for Nondestructive Examination Procedure Visual Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components
60862	RESERVED for Nondestructive Examination Procedure Liquid Penetrant Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components
60863	RESERVED for Nondestructive Examination Procedure Magnetic Particle Examination Procedure Review/Work Observation/Record Review of Transportation ISFSI Components
60864	RESERVED for Nondestructive Examination Procedure Ultrasonic Examination Procedure Review/Work Observation/Record Review
60865	RESERVED for Nondestructive Examination Procedure Radiographic Examination Procedure Review/Work Observation/Record Review of Transportation and ISFSI Components
6100	<u>Surveillance</u>
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61706	Core Thermal Power Evaluation 07/14/86 (86-36) R
61707	Determination of Reactor Shutdown Margin 10/11/85 (85-31) R
61708	Isothermal and Moderator Temperature Coefficient Determinations 10/11/85 (85-31) R
61709	Total Power Coefficient of Reactivity at Pressurized Water Reactors 07/14/86 (86-36) R
61710	Control Rod Worth Measurements for Pressurized Water Reactors 10/11/85 (85-31) R
61715	Verification of Containment Integrity 12/23/86 (86-60) R
61720	Containment Local Leak Rate Testing 10/03/85 (85-30) R
61726	Surveillance Observations 06/24/98 (98-010) R
61728	Independent Measurement of RCS Leak Rates for a PWR 01/01/84 (84-02) R
6200	<u>Maintenance</u>
62002	Inspection of Structures, Passive Components, and Civil Engineering Features at Nuclear Power Plants 12/31/96 (96-024) R
62003	Inspection of Steel and Concrete Containment Structures at Nuclear Power Plants 06/11/97 (97-008) R
62700	Maintenance Program Implementation 04/04/00 (00-005) R
62706	Maintenance Rule 12/13/00 (00-028) R
62708	Motor-Operated Valve Capability 07/16/20 (20-033)
62709	Configuration Risk Assessment and Risk Management Process 12/28/00 (00-029) R
62710	Power-Operated Gate Valve Pressure Locking and Thermal Binding 04/30/10 (10-013) R
62711	RESERVED for Operational Reliability Assurance Process
62712	Part 52, Maintenance Rule 08/13/13 (13-017) R

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6400 Fire Prevention/Protection

- 64102 RESERVED for Part 52 Post fire Safe Shutdown, Emergency Lighting and Oil Collection Capabilities
- 64704 Decommissioning Fire Protection Program 06/27/25 (25-022)
- 64705 Part 52, Fire Protection Operational Program 06/04/19 (19-018)

6500 10 CFR Part 52 ITAAC Inspections

- 65001 Inspections of Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Related Work 08/13/13 (13-017)
- 65001.01 Inspection of ITAAC-Related Foundations & Buildings 04/18/14 (14-010)
- 65001.02 Inspection of ITAAC-Related Installation of Structural Concrete 11/22/11 (11-037)
- 65001.03 Inspection of ITAAC-Related Installation of Piping 08/19/08 (08-024)
- 65001.04 Inspection of ITAAC-Related Installation of Pipe Supports and Restraints 08/13/14 (14-018)
- 65001.05 Inspection of ITAAC-Related Installation of Reactor Pressure Vessel and Internals 08/19/08 (08/19/08)
- 65001.06 Inspection of ITAAC-Related Installation of Mechanical Components 01/27/15 (15-001)
- 65001.07 Inspection of ITAAC-Related Installation of Valves 07/29/08 (08-021)
- 65001.08 Inspection of ITAAC-Related Installation of Electric Components and Systems 08/19/08 (08-024)
- 65001.09 Inspection of ITAAC-Related Installation of Electric and Fiber Optic Cable 08/05/09 (09-019)
- 65001.10 Inspection of ITAAC-Related Installation of Instrument Components and Systems 10/20/08 (08-029)
- 65001.11 Construction Inspection Program Inspection of ITAAC-Related Containment Integrity and Containment Penetration 08/19/08 (08-024)
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- 65001.12 Inspection of ITAAC-Related Installation of Heating, Ventilating, and Air Conditioning Systems 07/29/08 (08-021)
- 65001.13 Inspection of ITAAC-Related Installation of Load Handling Equipment and Fuel Racks 08/05/09 (09-019)
- 65001.14 Inspection of ITAAC-Related Installation of Complex Systems with Multiple Components 06/24/15 (15-012)
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- 65001.16 Inspection of ITAAC-Related Engineering 06/20/14 (14-013)
- 65001.17 Inspection of ITAAC-Related Security Structures, Systems, and Components 09/30/16 (16-025)
- 65001.18 Inspection of Emergency Planning ITAAC 10/30/08 (08-030)
- 65001.19 Inspection of Installation of ITAAC-Related Radiation Monitoring Components and Systems 10/20/08 (08-029)
- 65001.20 Inspection of Safety-Related Piping Design Acceptance Criteria (DAC)-Related ITAAC 06/02/11 (11-009)

65001.21	Inspection of Pipe Rupture Hazards Analyses (Inside and Outside Containment) Design Acceptance Criteria (DAC)-Related ITAAC 11/07/11 (11-029)
65001.22	Inspection of Digital Instrumentation and Control (DI&C) System/Software Design Acceptance Criteria (DAC) – Related ITAAC 12/19/11 (11-041)
65001.23	Inspection of Human Factors Engineering Verification and Validation ITAAC 12/22/14 (14-031)
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6700	<u>Reserved</u>
6800	<u>Reserved</u>
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70368	Part 52 Containment Leak Rate Testing Program (Programmatic) 06/26/17 (17-013)
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70701	RESERVED
70702	Part 52, Inspection of Preoperational Test Performance 12/06/17 (17-028)

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71111.15	Operability Determinations and Functionality Assessments 04/09/25 (25-006)
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71111.18	Plant Modifications 11/21/24 (24-036)
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71111.22	Surveillance Testing 03/29/21 (21-015) R
71111.24	Testing and Maintenance of Equipment Important to Risk 03/07/23 (23-006)
71113	RESERVED for Review of License Renewal Commitments for Plants in Timely Renewal
71114	Reactor Safety-Emergency Preparedness 04/02/21 (21-018)
71114.01	Exercise Evaluation 07/21/16 (16-017)
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71114.03	Emergency Response Organization Staffing and Augmentation System 07/21/16 (16-017)
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71114.05	Maintenance of Emergency Preparedness 07/21/16 (16-017))
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71124.04	Occupational Dose Assessment 12/23/19 (19-042)
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71130.12	RESERVED for Physical Protection of Shipments of Irradiated Fuel
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72304	AP1000 Startup Test Inspections 02/28/19 (19-009)
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72501	RESERVED for Part 52 Initial Fuel Load Procedure Review
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72701	Modification Testing 04/14/92 (92-004) R

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73051	Inservice Inspection – Review of Program 01/14/86 (86-003) R
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73054	Part 52, Preservice and Inservice Inspection - Review of Program 03/04/20 (20-013)
73753	Inservice Inspection 06/24/98 (98-010) R

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73755	Inservice Inspection - Data Review and Evaluation 10/27/10 (10-022) R
73756	In-service Testing of Pumps and Valves 07/27/95 (95-009) R
73757	Part 52 In-service Inspection - Data Review and Evaluation 09/23/19 (19-029)
73758	Part 52, Functional Design and Qualification, and Preservice and Inservice Testing Programs for Pumps, Valves and Dynamic Restraints 02/06/20 (20-007)
7400	<u>Reserved</u>
7500	<u>Reserved for ARCOP</u>
75000	RESERVED for ARCOP
75100	RESERVED for Security
75100.01	RESERVED Access Authorization
75100.02	RESERVED Access Control
75100.03	RESERVED Performance Evaluation Program
75100.04	RESERVED Equipment Performance, Testing, and Maintenance
75100.05	RESERVED Protective Strategy Evaluation
75100.06	RESERVED Protection of Safeguards Information (SGI)
75100.07	RESERVED Security Training
75100.08	RESERVED Fitness-for-Duty (FFD) Operational Program
75100.09	RESERVED Cybersecurity inspection for pre-fuel load construction
75100.10	RESERVED Security Organization, Management Effectiveness, Program Reviews and Audits
75100.11	RESERVED Material Control and Accounting (MC&A)
75100.12	RESERVED
75100.13	RESERVED
75100.14	RESERVED Review of New Reactor Target Sets
75100.15	RESERVED Cybersecurity inspection for post-fuel load construction
75100.16	RESERVED
75100.17	RESERVED
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7600	<u>Reserved</u>
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7800	<u>High Level Waste</u>
78010	10 CFR Part 21 Program 09/11/08 (08-026)

7900 Water Chemistry

- 79503 RESERVED for Part 52 LWR Water Chem. Control & Chem. Analysis (Pre-Op and Supp)
- 79504 RESERVED for Part 52 Plant systems Affecting Plant Water Chem.
- 79702 Control and Monitoring of Radiological Source Term 04/17/00 (00-006) R

8000 Environmental Protection

- 80211 RESERVED for Part 52 Environmental Protection - Initial & Periodic Inspection
- 80522 Part 52, Radiological Environmental Monitoring Program (REMP) 05/07/20 (20-024)
- 80600 RESERVED for Independent Assessment of Site Radiological Conditions

8100 Physical Security

- 81000 Security 10/28/24 (24-033)
- 81000.01 Access Authorization 07/24/24 (24-021)
- 81000.02 Access Control 11/04/24 (24-035)
- 81000.03 Performance Evaluation Program 12/10/24 (24-041)
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- 81000.05 Protective Strategy Evaluation 11/04/24 (24-035)
- 81000.06 Protection of Safeguards Information 12/13/24 (24-043)
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- 81000.08 Fitness-for-Duty Program 10/29/24 (24-033)
- 81000.09 Cyber Security Inspection for Construction 09/30/16 (16-025)
- 81000.10 Security Organization, Management Effectiveness, Program Reviews and Audits 12/10/24 (24-041)
- 81000.11 Material Control and Accounting (MC&A) 11/22/24 (24-037)
- 81000.12 Cybersecurity Restart Inspection – Pre-fuel Load 05/13/25 (25-011)
- 81000.13 RESERVED for Cybersecurity Restart Inspection – Post Fuel Load
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- 81000.15 RESERVED for Cybersecurity Inspection for Post-Fuel Load Construction
- 81072 Access Control (Power Reactor) - Packages 05/09/84 (84-15) R
- 81120 Inspection Requirements and Guidance for Additional Security Measures for the Physical Protection in Transit for Radioactive Material Quantities of Concern 04/01/10 (10-010) (Note this IP contains safeguards material)
- 81200 Security 07/28/20 (20-035)
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- 81200.03 RESERVED for Decommissioning Force-on-Force Testing
- 81200.04 Equipment Performance, Testing, and Maintenance for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
- 81200.05 Protective Strategy Evaluation and Performance Evaluation Program for Decommissioning Nuclear Power Reactors 01/05/21 (21-001)
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81200.07	Security Training for Decommissioning Nuclear Power Reactors 04/01/21 (21-017)
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81200.11	RESERVED for Decommissioning Material Control and Accounting
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81311	Physical Security Requirements for Independent Spent Fuel Storage Installations 06/28/22 (22-014)
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81602	Fixed Site Physical Protection of Special Nuclear Material of Moderate Strategic Significance – Non-Power Reactors 03/13/20 (20-015)
81603	Fixed Site Physical Protection of Special Nuclear Material of Low Strategic Significance – Non-Power Reactors 03/13/20 (20-015)
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81607	Protection of Safeguards Information and Safeguards Information Modified Handling – Non-Power Reactors 03/13/20 (20-015)
81608	Reporting of Safeguards Events – Non-Power Reactors 05/01/25 (25-010)
81612	In Transit Physical Protection of Special Nuclear Material of Moderate Strategic Significance and Receipt of New Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81613	In Transit Physical Protection of Special Nuclear Material of Low Strategic Significance and Receipt of New Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81614	In Transit Physical Protection of Irradiated Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)

81621	Fixed Site Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material – Non-Power Reactors 03/13/20 (20-015)
81622	In Transit Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material and 100 Grams or Less of Irradiated Reactor Fuel – Non-Power Reactors 03/13/20 (20-015)
81700.01	Category I Fuel Cycle Facility Strategic Special Nuclear Material Security Controls 05/15/17 (17-010)
81700.02	Category I Fuel Cycle Facility Access Control Measures 05/15/17 (17-010)
81700.04	Category I Fuel Cycle Facility Security Equipment Performance, Testing and Maintenance 05/15/17 (17-010)
81700.05	Category I Fuel Cycle Facility Physical Protection Program and Protective Strategy 05/15/17 (17-010)
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81700.07	Category I Fuel Cycle Facility Security Training 05/15/17 (17-010)
81700.08	Category I Fuel Cycle Facility Fitness-for-Duty Programs 05/15/17 (17-010)
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81700.11	Annual Observation of Licensee Conducted Force-on-Force Exercises at Category I Fuel Cycle Facilities 10/27/17 (17-023)
81810	Protection of Safeguards Information 09/10/07 (07-027)
81811	Protection of Safeguards Information By Design Certification Applicants and Vendors 04/08/20 (20-020)
81815	Authorization for Access to National Security Information (NSI) and Restricted Data (RD) 06/27/14 (14-014)
81820	Physical Protection Facility Approval and Safeguarding of National Security Information and Restricted Data 11/26/24 (24-038)
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8200 Emergency Planning

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82001.01	ERO Performance Drills 05/22/00 (00-010) R
82001.02	ERO Performance Drills Dose Assessment 05/22/00 (00-010) R
82001.03	ERO Augmentation Drill 05/22/00 (00-010) R
82001.04	Facilities and Equipment 05/22/00 (00-010) R
82001.05	Procedure Quality 05/22/00 (00-010) R
82001.06	Remedial Exercises 05/22/00 (00-010) R
82002	Part 52, Emergency Preparedness Program 03/04/20 (20-014)
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82002.02	Procedure Quality 11/08/11 (11-030)
82002.03	Review of Exercise Objectives and Exercise Scenario for Power Reactors 11/08/11 (11-030)
82002.04	Emergency Preparedness Exercises 11/08/11 (11-030)
82002.05	Emergency Response Organization On-Shift Staffing and Augmentation Drills 11/08/11 (11-030)

82002.06	Emergency Response Organization, Dose Assessment Drills 11/08/11 (11-030)
82002.07	Operational Status of the Emergency Preparedness Program 11/08/11 (11-030)
82201	Emergency Detection and Classification 03/23/05 (05-008) R
82202	Protective Action Decision Making 03/23/05 (05-008) R
82301	Evaluation of Exercises for Power Plants 04/24/13 (13-012) R
82302	Review of Exercise Objectives and Scenarios for Power Reactors 04/24/13 (13-012) R
82401	Decommissioning Emergency Preparedness Scenario Review and Exercise Evaluation 09/04/14 (14-020)
82501	Decommissioning Emergency Preparedness Program Evaluation 09/04/14 (14-020)
82701	Operational Status of the Emergency Preparedness Program 04/24/13 (13-012) R
8300	<u>Radiation Protection</u>
83311	RESERVED for Part 52, Radiation Protection During Construction
83501	Significant Uncontrolled Radiation Exposures 04/17/00 (00-006) R
83502	Evaluation of Public Radiation Safety 04/17/11 (00-006) R
83502.01	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems 04/17/00 (00-006) R
83502.02	Radioactive Material Processing and Transportation 04/17/00 (00-006) R
83502.03	Radiological Environmental Monitoring Program (REMP) and Radioactive Material Control Program 04/17/00 (00-006) R
83523	Radiation Protection, Plant Chemistry, Radwaste, Transportation and Environmental: Training and Qualifications 01/01/84 (reactivated 08-032) R
83529	RESERVED for Part 52 Radiation Protection – Startup
83531	Part 52, Life Cycle Minimization of Contamination and Groundwater Protection Program 03/04/20 (20-013)
83532	RESERVED for Part 52 Radiation Protection, Plant Chemistry, and Radwaste Training
83533	Part 52, External Occupational Exposure Control and Personal Dosimetry 03/04/20 (20-013)
83534	Part 52, Internal Exposure Control and Assessment 03/04/20 (20-013)
83535	Part 52, Control of Radioactive Materials and Contamination, Surveys, and Monitoring 03/04/20 (20-013)
83536	Part 52, Facilities and Equipment 03/04/20 (20-013)
83537	Part 52 Maintaining Occupational Exposures ALARA 03/04/20 (20-013)
83723	General Employee, Radiation Safety, Plant Chemistry, Radwaste, and Transportation Training 12/16/03 (03-041) R
83724	External Occupational Exposure Control and Personal Dosimetry 04/17/00 (00-006)
83725	Internal Exposure Control and Assessment 04/17/00 (00-006)
83726	Control of Radioactive Materials and Contamination, Surveys and Monitoring 11/13/14 (14-027)
83728	Maintaining Occupational Exposures ALARA 04/17/00 (00-006) R
83729	Occupational Exposure during Extended Outages 12/31/91 (91-021) R

83746	Part 52, Offsite Dose Calculation Manual (ODCM) 05/07/20 (20-024)
83750	Decommissioning Occupational Radiation Control 06/27/25 (25-022)
83801	Inspection of Remedial and Final Surveys at Permanently Shutdown Reactors 01/06/21 (21-002)
83822	Radiation Protection 12/15/22 (22-026)
83890	Closeout Inspection and Survey 12/15/22 (22-026)

8400 Radioactive Waste Management

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84101	Radioactive Waste Management 12/30/91 (91-022)
84522	Solid Wastes (Preoperational and Supplemental) 01/01/84 (reactivated 08-032) R
84525	Quality Assurance and Confirmatory Measurements for In-Plant Radiochemical Analysis (Preoperational and Supplemental) 5/23/85 (reactivated 08-032)
84526	RESERVED for Part 52 Radwaste – Startup
84527	Part 52, Solid Waste Management Program 04/30/20 (20-022)
84528	Part 52, Liquid Waste Management Program 04/30/20 (20-022)
84529	Part 52, Gaseous Waste Management Program 05/07/20(20-024)
84750	Decommissioning Radioactive Waste Treatment, and Effluent and Environmental Monitoring 06/27/25 (25-022)
84850	Radioactive Waste Management - Inspection of Waste Generator Requirements of 10 CFR Part 20 and 10 CFR Part 61 12/22/08 (08-037)
84900	Low-Level Radioactive Waste Storage 12/15/22 (22-026)

8500 Material Control and Accountability

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85103	Material Control and Accounting at Decommissioning Nuclear Power Reactors 07/03/18 (18-019)
85200	MC&A for Licensees Possessing Less Than or Equal to One Effective Kilogram of SNM 04/10/85 (85-15)
85203	Management Structure and Controls 05/30/24 (24-016)
85205	Item Control Program 05/30/24 (24-016)
85207	Measurement Program 05/30/24 (24-016)
85209	Measurement Control Program 05/30/24 (24-016)
85211	Physical Inventory Program 05/30/24 (24-016)
85213	Resolution Program for Category II Facilities 05/30/24 (24-016)
85303	Material Control and Accounting Management Structure and Personnel Training and Qualification 12/17/20 (20-074)
85305	Item Monitoring 12/16/20 (20-073)
85307	Process Monitoring 12/16/20 (20-073)
85309	Measurement Systems and Control 11/06/20 (20-060)
85311	Physical Inventory Program 11/06/20 (20-060)
85313	Alarm Resolution Program 11/06/20 (20-060)
85315	Internal Control 12/16/20 (20-073)
85401	Management Structure 11/06/20 (20-060)
85402	Measurement Program 12/22/20 (20-075)

85403	Measurement Control Program 12/22/20 (20-075)
85404	Physical Inventory Program for Low Enriched Uranium Fuel Facilities 01/13/21 (21-004)
85405	Item Control 01/13/21 (21-004)
85406	Resolution Program for Low Enriched Uranium Fuel Facilities 01/13/21 (21-004)
85407	Assessment Program 12/17/20 (20-074)
85408	Recordkeeping Program 12/17/20 (20-074)
85420	Inspection of IAEA Safeguards for Inspectors at Power Reactors 06/22/88 (88-007) R
85501	Physical Inventory Program for Uranium Enrichment Facilities 12/20/20 (20-075)
85502	Detection Program for Uranium Enrichment Facilities 12/22/20 (20-075)
85503	Resolution Program for Uranium Enrichment Facilities 01/13/21 (21-004)
8600	<u>Spent Fuel and Other Radioactive Material Packaging and Shipping</u>
86001	Design, Fabrication, Testing, and Maintenance of Transportation Packagings 05/21/25 (25-012)
86730	Transportation of Radioactive Materials (49 CFR Parts 100-179 and 10 CFR Part 71) 04/17/00 (00-006)
86740	Inspection of Transportation Activities 12/14/20 (20-071)
86750	Decommissioning Solid Radioactive Waste Management, Demolition and Transportation of Radioactive Materials 06/27/25 (25-022)
8700	<u>Materials Safety Inspection</u>
87102	Maintaining Effluents from Materials Facilities As Low As Is Reasonably Achievable (ALARA) 04/04/00 (00-005)
87103	Inspection of Material Licensees Involved in an Incident or Bankruptcy Filing 11/03/00 (00-023)
87104	Decommissioning Inspection Procedure for Materials Licensees 12/15/22 (22-026)
87121	Industrial Radiography Programs 05/16/24 (24-015)
87122	10 CFR Part 36 Panoramic Dry-Source-Storage, Panoramic Wet-Source-Storage, and Underwater Irradiator Programs 12/21/23 (23-039)
87123	Well Logging and Tracer Study Programs 04/26/22 (22-008)
87124	Fixed Nuclear Gauge Programs 04/26/22 (22-008)
87125	Materials Processor/Manufacturer Programs 12/21/23 (23-039)
87126	Broad Scope Academic and Research & Development Programs 04/26/22 (22-008)
87127	Radiopharmacy Programs 07/01/08 (08-018)
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87129	Master Materials Program 10/29/21 (21-036)
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87131	Nuclear Medicine Programs, Written Directive Required 08/24/11 (11-014)
87132	Brachytherapy Programs 02/26/15 (15-003)

87133	Medical Gamma Stereotactic Radiosurgery and Teletherapy Programs 08/24/11 (11-014)
87134	Medical Broad-Scope Programs 08/24/11 (11-014)
87137	10 CFR Part 37 Materials Security Programs 12/03/20 (20-068)
87138	RESERVED for 10 CFR Part 37, "Physical Protection Of Category 1 And Category 2 Quantities Of Radioactive Material At Facilities With A 10 CFR Part 73 Physical Protection Program
87139	Portable Nuclear Gauge Programs 04/26/22 (22-008)
87140	Source, Special Nuclear Material, and Other Alpha Emitter Use Programs 04/26/22 (22-008)
87141	Limited Scope Academic and Research & Development Programs Including Animal Use 04/26/22 (22-008)
87142	Sealed Sources and Devices (Other) Used in Measuring Systems, Analytical Instruments, Calibration and Checking of Instruments, and Similar Purposes 04/26/22 (22-008)
87143	Self-Shielded Irradiator and Calibrator Devices 04/26/22 (22-008)
87144	Veterinary Use Programs 04/26/22 (22-008)
87250	Locating Missing Materials Licensees 10/29/01 (01-022)
87300	Groundwater Monitoring and Remediation at Decommissioning Fuel Cycle and Complex Materials Facilities 12/15/22 (22-026)
87305	Decommissioning Management Organization and Controls 12/15/22 (22-026)
87654	Uranium Mill, In-Situ Recovery, and 11e.(2) Byproduct Material Disposal Site Decommissioning Inspection 12/15/22 (22-026)

8800 Fuel Facility Inspection

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88005	Management Organization and Controls 09/05/06 (06-020)
88010	Training 02/07/14 (14-005)
88015	Nuclear Criticality Safety 10/20/20 (20-052)
88020	Operational Safety 12/14/20 (20-071)
88025	Maintenance and Surveillance of Safety Controls 01/23/14 (14-003)
88030	Radiation Protection 01/29/21 (21-007)
88045	Effluent Control and Environmental Protection 03/12/21 (21-013)
88050	Emergency Preparedness 12/17/20 (20-074)
88051	Evaluation of Exercises and Drills 11/12/20 (20-062)
88055	Fire Protection 11/09/20 (20-061)
88070	Plant Modification (Annual) 12/14/20 (20-071)
88071	Configuration Management Program 03/06/14 (14-007)
88072	Plant Modifications (Triennial) 08/21/18 (18-027)
88075	Event Follow-up 03/16/15 (15-004)
88100	Plant Operations 12/30/96 (96-026)
88101	Configuration Control 12/30/96 (96-026)
88102	Surveillance Observations 12/30/96 (96-026)
88103	Maintenance Observations 12/30/96 (96-026)
88104	Decommissioning Inspection Procedure for Fuel Cycle Facilities 12/15/22 (22-026)

88106	Quality Assurance: Program Development and Implementation (Pre-licensing and Construction) 02/07/07 (07-006)
88107	Quality Assurance: Design and Documentation Control (Pre-licensing and Construction) 05/18/05 (05-013)
88108	Quality Assurance: Control of Materials, Equipment, and Services (Pre-licensing and Construction) 02/07/07 (07-006)
88109	Quality Assurance: Inspection, Test Control, and Control of Measuring and Test Equipment (Pre-licensing and Construction) 06/20/07 (07-020)
88110	Quality Assurance: Problem Identification, Resolution and Corrective Action (PIRCA) (Construction, Pre-Operation and Operation) 05/18/05 (05-013)
88111	10 CFR, Part 21, Inspection-Facility Construction 02/07/07 (07-006)
88112	RESERVED for Software Validation
88113	Control of the Electronic Management of Data 02/07/07 (07-006)
88114	Quality Affecting Item Procurement (10 CFR Part 21) and Commercial Grade Item Dedication Process (Reactive) 10/25/06 (06-030)
88115	Supplier/Vendor Inspection (Construction Phase) 10/25/06 (06-030)
88117	Facility Changes (License Application) and Change Process (10 CFR 70.72) (Pre-Licensing and Construction) 09/20/16 (16-023)
88120	RESERVED Draft Construction and Operational Readiness Inspections for the Internal Isotopes Uranium Deconversion Facility
88121	RESERVED for Draft Operational Readiness Reviews for Uranium Deconversion Facilities
88130	Resident Inspection Program for On-Site Construction Activities at the Mixed-Oxide Fuel Fabrication Facility 03/02/16 (16-009)
88131	Geotechnical/Foundation Activities 10/25/06 (06-030)
88132	Structural Concrete Activities 10/25/06 (06-030)
88133	Structural Steel and Supports Activities 7/25/07 (07-023)
88134	Piping Systems Relied on for Safety 05/18/05 (05-013)
88135	Resident Inspection Program for Category I Fuel Cycle Facilities 12/02/20 (20-067)
88135.02	Resident Inspection Program Plant Status Activities 12/02/20 (20-067)
88135.04	Resident Inspection Program Operational Safety 12/02/20 (20-067)
88135.05	Resident Inspection Program Fire Protection (Annual/Quarterly) 12/02/20 (20-067)
88135.17	Resident Inspection Program Plant Modifications 12/02/20 (20-067)
88135.19	Resident Inspection Program Post-Maintenance Testing 12/02/20 (20-067)
88135.22	Resident Inspection Program Surveillance Testing 12/02/20 (20-067)
88136	Mechanical Components 7/25/07 (07-023)
88137	Electrical Cable 04/01/10 (10-010)
88138	Electrical Components and Systems 08/08/07 (07-024)
88139	Ventilation and Confinement Systems 08/08/07 (07-024)
88140	Instrumentation and Control Systems 04/01/10 (10-010)
88141	Fire Prevention and Protection 08/08/07 (07-024)
88142	Underground Fire Water Loop and Equipment Installation 08/08/07 (07-024)
88143	Pipe Supports and Restraints 7/25/07 (07-023)
88150	RESERVED for Training and Qualification of Plant Personnel
88151	RESERVED for Facility Changes and Change Process (10 CFR 70.72)
88152	RESERVED for Physical Protection Equipment and Barriers

88153	RESERVED for Material Control and Accounting
88154	RESERVED for Fire Safety and Protection Systems
88155	RESERVED for Functional Verifications of IROFS
88156	RESERVED for Integrated Safety Analysis Implementation
88157	RESERVED for Waste Management Equipment and Systems
88158	RESERVED for Environmental Protection - Initial and Periodic Inspections
88159	RESERVED for Process Enclosures and Vessels
88160	RESERVED for Utilities and Bulk Chemicals
88161	Corrective Action Program (CAP) Implementation at Fuel Cycle Facilities 07/28/14 (14-017)
88200	Inspections of Safety Significant Items and Services during Construction of Fuel Cycle Facilities 05/28/25 (25-014)
88200.A	Inspection of Foundations and Buildings at Fuel Cycle Facilities 05/28/25 (25-014)
88200.B	Inspection of Structural Concrete at Fuel Cycle Facilities 05/28/25 (25-014)
88200.C	Inspection of Structural Steel and Supports at Fuel Cycle Facilities 05/28/25 (25-014)
88200.D	Inspection of Piping at Fuel Cycle Facilities 05/28/25 (25-014)
88200.E	Inspection of Piping Supports and Restraints at Fuel Cycle Facilities 05/28/25 (25-014)
88200.F	Inspection of Mechanical Components at Fuel Cycle Facilities 05/28/25 (25-014)
88200.G	Inspection of Electrical Cable at Fuel Cycle Facilities 05/28/25 (25-014)
88200.H	Inspection of Electrical Components and Systems at Fuel Cycle Facilities 05/28/25 (25-014)
88200.I	Inspection of Ventilation and Confinement Systems at Fuel Cycle Facilities 05/28/25 (25-014)
88200.J	Inspection of Instrumentation and Control Systems at Fuel Cycle Facilities 05/28/25 (25-014)
88200.K	Inspection of Safety-Significant Welding at Fuel Cycle Facilities 05/28/25 (25-014)
88200.L	Inspection of Fire Protection Systems Under Construction at Fuel Cycle Facilities 05/28/25 (25-014)
88200.M	Inspection of Digital Instrumentation and Control (DI&C) System/Software Design at Fuel Cycle Facilities 05/28/25 (25-014)
88201	Inspections of Management Measures during Construction of Fuel Cycle Facilities 06/20/25 (25-018)
88201.A	Configuration Management 06/20/25 (25-018)
88201.B	Maintenance 06/20/25 (25-018)
88201.C	Training and Qualifications 06/20/25 (25-018)
88201.D	Procedures 06/20/25 (25-018)
88201.E	Audits and Assessments 06/20/25 (25-018)
88201.F	Incident Investigations 06/20/25 (25-018)
88201.G	Records Management 06/20/25 (25-018)
88201.H	Other Quality Assurance (QA) Elements 06/20/25 (25-018)
88202	RESERVED for IROFS

8900 Fuel Facility and Materials Special Program

89002	RESERVED for Uranium Mill program
89003	RESERVED for Uranium Mill program
89005	Management Organization and Controls at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89010	Disposal Cell Construction at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89015	Construction and Preoperational Inspection Program at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89020	Groundwater and Water Management at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89025	Assessment of Dryer and Yellowcake Packaging Operations 07/26/24 (24-022)
89030	Radiation Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89035	Radioactive Waste Management and Transportation at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89045	Effluent Control and Environmental Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89050	Emergency Preparedness and Fire Protection at Uranium Recovery and 11e.(2) Byproduct Material Facilities 10/08/21 (21-034)
89060	Department of Energy Observational Site Visits 11/15/22 (22-026)

9000 Reportable Matters and Report Reviews

90001	Construction Regulatory Response Column Inspections 10/27/10 (10-022)
90002	Construction Degraded Performance Column Inspections 10/28/14 (14-026)
90003	Construction Supplemental Inspection for Repetitive Degraded Cornerstones, Multiple Degraded Cornerstones, Multiple Yellow Inputs or One Red Input 10/28/14 (14-026)
90502	RESERVED for Part 52 Reportable Matters - Test Program
90700	Feedback of Operational Experience Information at Operating Power Reactors 03/23/05 (05-008) R
90712	In-office Review of Written Reports of NonRoutine Events at Power Reactor Facilities 12/31/98 (98-020) R

9100 Title 10 Requirements

9200 Planned Non-Routine Activities

92050	Review of Quality Assurance for Extended Construction Delay 04/04/00 (00-005)
92700	Onsite Follow-up of Written Reports of NonRoutine Events at Power Reactor Facilities 12/31/98 (98-020) R
92701	Followup 03/13/07 (07-010)

92702	Follow-Up On Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, and Orders 10/26/20 (20-055)
92703	Followup of Confirmatory Action Letters or Orders 05/13/09 (09-012)
92707	Security Inspection of Facilities Impacted by a Local, State, or Federal Emergency Where the U.S. Nuclear Regulatory Commission's Ability to Conduct Triennial Force-On-Force Exercises is Limited 03/14/24 (24-010)
92708	RESERVED for operating reactors pandemic response
92709	Contingency Plans for Licensee Strikes or Lockouts 05/16/19 (19-015)
92711	Implementation of Licensee Contingency Plans During a Strike/Lockout 05/16/19 (19-015)
92712	Resumption of Normal Operations after a Strike/Lockout 05/16/19 (19-015)
92714	RESERVED for Part 52 Follow-up
92720	Corrective Action 09/28/98 (reactivated 07-034)
92721	RESERVED for Part 52 Follow-up on Corrective Actions for Violations and Deviations
92722	Follow-Up Inspection for Any Severity Level I or II Traditional Enforcement Violation or for Two or More Severity Level III Traditional Enforcement Violations in a 12-Month Period 09/16/21 (21-031)
92723	Follow-Up Inspection for One Severity Level III and Two Severity Level IV Traditional Enforcement Violations or for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period 09/16/21 (21-031)
9300	<u>Non-Routine Activities</u>
93002	Managing Fatigue 11/21/24 (24-036)
93100	Safety-Conscious Work Environment Issue of Concern Follow-up 07/14/21 (21-024)
93800	Augmented Inspection Team 06/07/22 (22-012)
93801	Safety System Functional Inspection (SSFI) 07/25/96 (96-016)
93802	Operational Safety Team Inspection (OSTI) 11/27/89 (89-015)
93803	Safety Systems Outage Modifications Inspection 04/27/89 (89-008)
93804	Risk-Based Operational Safety and Performance Inspection 01/15/92 (92-001)
93805	Maintenance Program 08/06/93 (93-070)
93806	Operational Readiness Assessment Team Inspections 09/29/98 (98-015)
93807	Systems Based Instrumentation and Control Inspection 01/29/93 (93-001)
93810	Service Water System Operational Performance Inspection (SWSOPI) 09/14/98 (98-013)
93811	Electrical Distribution System Functional Inspection (EDSFI) 02/03/99 (99-002)
93812	Special Inspection 06/07/22 (22-012)
93813	RESERVED for Part 52 Operational Readiness Assessment Team Inspection
9400	<u>Technical Activities of an Administrative Nature</u>
94301	RESERVED for Part 52 Status of 10 CFR 52 Plant Readiness for Fuel Load

9500 Strategic Determination Actions

- 95001 Supplemental Inspection Response to Action Matrix Column 2 (Regulatory Response) Inputs 08/19/2021 (21-028)
- 95002 Supplemental Inspection Response to Action Matrix Column 3 (Degraded Performance) Inputs 03/19/2021 (CN 21-014)
- 95003 Supplemental Inspection Response to Action Matrix Column 4 (Multiple/Repetitive Degraded Cornerstone) Inputs 06/07/22 (22-012)
- 95003.01 Emergency Preparedness 01/15/09 (09-002)
- 95003.02 Guidance for Conducting Independent NRC Safety Culture Assessment 04/16/25 (25-008)

9600 Materials Safety and Security

- 96001 NRC Force-on-Force Inspections at Category 1 Fuel Cycle Facilities 03/11/19 (19-010)

9700 Reserved

9800 Reserved

9900 Guidance²

- 9900 Technical Guidance 05/12/86 (86-26) R

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Technical Guidance

- ASME Section III American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III 06/16/89 (89-011)
- ASME Section III & XI American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section III & XI 11/12/96 (96-022)
- ASME Section XI American Society of Mechanical Engineers ASME Boiler and Pressure Vessel Code, Section XI 12/08/86 (86-54)
- ASME Section XI American Society of Mechanical Engineers ASME, Section XI 05/12/86 (86-26)
- STS Sec 1.0 Operability 05/12/86 (86-26)
- STS Sec 1.0 Definitions 12/08/86 (86-54)
- STS Sec 3.0 Acceptable Measurement Tolerances for Technical Specification Limits 10/01/78 (78-35)
- STS Sec 3/4.6.4 Containment and Drywell Isolation Valves 06/09/88 (88-06)
- STS Sec 3.7.5 Ultimate Heat Sink 11/25/88 (88-17)
- STS Sec 3/4.8.1 TDI Diesel Generator Air Roll Tests 06/09/88 (88-06)

² [XXXX.XX] attached to each document in Part 9900, is the file name for that document.

STS Sec 4.2.8.X.X	Surveillance Requirements - 125-Volt Battery Bank 10/01/79 (79-22)
STS Sec 4.5.1	Standard Technical Specifications (BWR) 05/12/86 (86-26)
STS Sec 4.8.1.1.2	Surveillance Testing of Diesel Generator Lockout Feature 05/12/86 (86-26)
STS	Surveillance Sections - Locked or Otherwise Secured Components 10/01/77 (77-25)
STS Interp	Licensee Technical Specification Interpretations 02/03/97 (97-001)

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Voluntary Entry into Limiting Conditions for Operation Action Statements to Perform Preventive Maintenance 01/17/02 (02-001) Assessing On-Line Leak Sealing of ASME Code Class 1 & 2 07/15/97 (97-011) Filled Organic Coatings Used in Maintenance of Safety Related Equipment 10/11/94 (94-018) Preconditioning of Structures, Systems, and Components (SSCs) Before Determining Operability 09/28/98 (98-014) [PRECOND.TG]

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Operations

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10 CFR GUIDANCE

10	Title 10 of the Code of Federal Regulations 12/08/86 (86-54)
10 CFR71 and 49 CFR171-178	Transportation of Radioactive Material 12/01/04 (04-027)
50.55(e)	Construction Deficiency Reporting 01/31/89 (89-002)
50.55a	Codes and Standards 02/22/73 (73-9)
Part 50, App A	Definition of Leak-Before-Break Analysis 09/26/96 (96-020)
Part 50	Appendix J, Containment Integrated Leak Rate Testing 12/08/86 (86-54)
70.51	Material Balance, Inventory, and Records Requirements 12/19/74 (74-11)

Interpretations**OPERATING EXPERIENCE**
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FY2007/01	PWR Containment Sump Recirculation Pipe Foreign Material Blockage 11/20/06 R
FY2007/02 Rev 3	Analysis of Flooding Vulnerabilities 09/11/18 (18-031)
FY2007/03 Rev 3	Crane And Heavy Lift Inspection, Supplemental Guidance to IP 71111.20 and IP 71111.13, 09/11/18 (18-031)
FY2007/04	BWR Core Power / Flow Map – supplemental inspection guidance for MC 2515D, 08/27/07 R
FY2008/01	Negative Trend and Recurring Events Involving Emergency Diesel Generators 11/29/07 R
FY2009/01	Inspection of Electrical Connections for Motor Control Center, Circuit Breakers, and Interfaces 10/29/08 R
FY2009/02	Negative Trend and Recurring Events Involving Feedwater Systems 12/23/08 R
FY2012/02 Rev 1	Technical Specification Interpretation and Operability Determination 05/17/12 R
FY2018/01	Evaluation of Licensee Actions Taken in Response to 10 CFR Part 21 Notification of the Potential Existence of Defects Related to Control Rod Drive Mechanism (CRDM) Thermal Sleeves 11/19/18 (18-040) R
FY2019/01	Commercial Grade Dedication, Procurement, and Design Control 07/30/19 (19-025) R
FY2020/01	Flex Equipment Design Control, Maintenance, and Testing 10/21/20 (20-053)
FY2023/01	Digital Instrumentation and Controls 02/12/24 (24-007)
FY2023/02	Probabilistic Risk Assessment Configuration Control 01/09/24 (24-002)

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